



## LINKING PRECISION WITH PERFORMANCE QUICK COUPLING SOLUTIONS

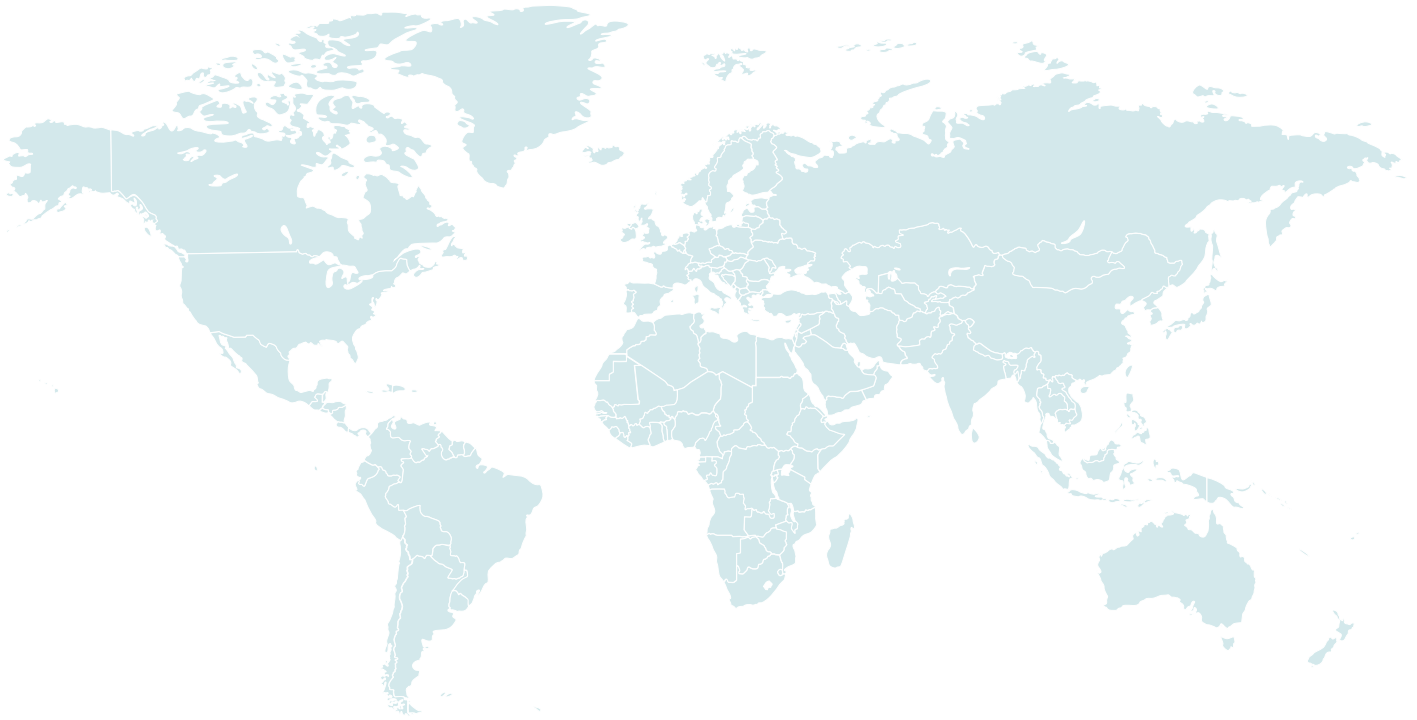
**MAIN CATALOGUE 2026**

Mono and Multicouplings

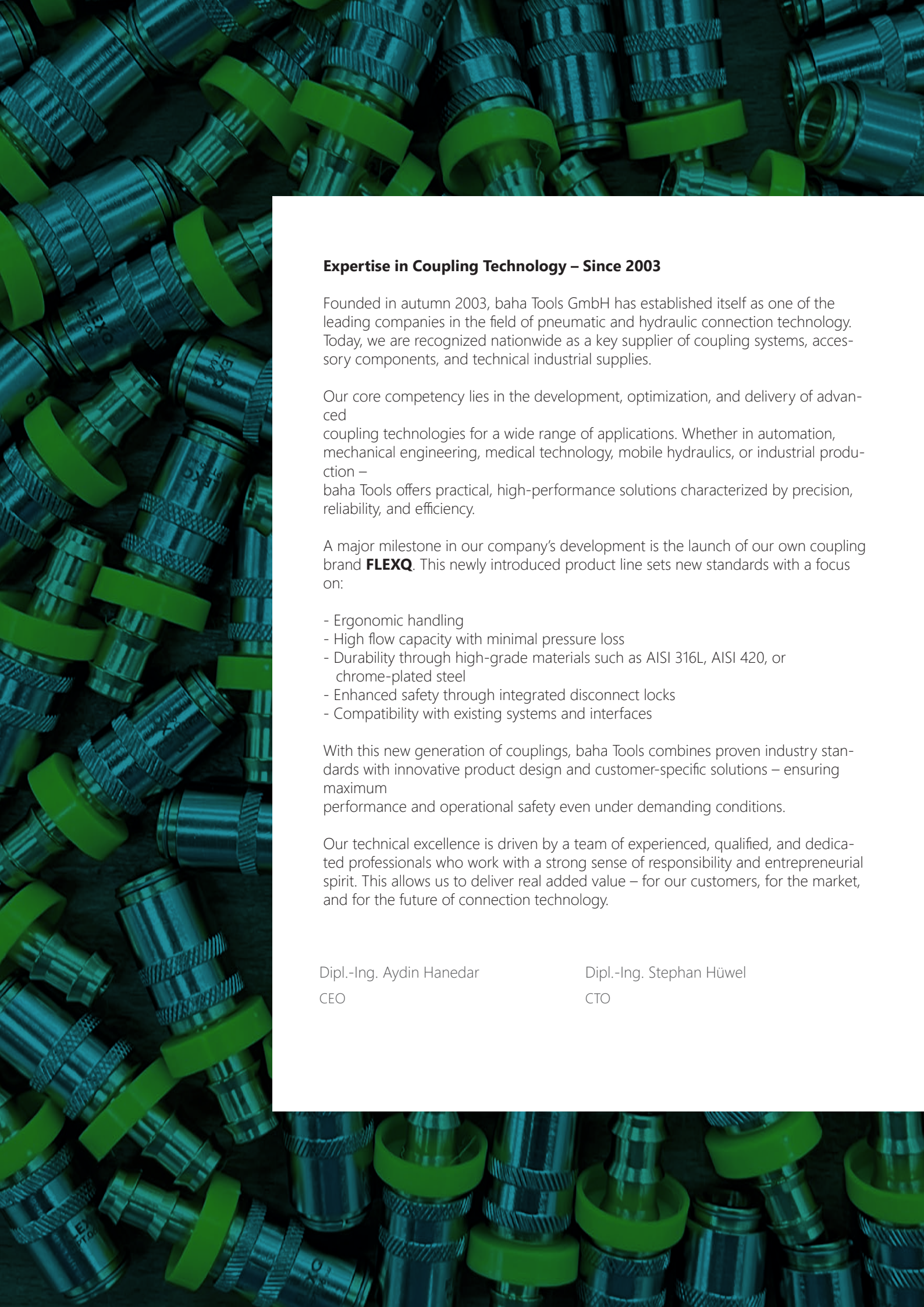
[www.flexq-connectors.com](http://www.flexq-connectors.com)

**baha**  
TOOLS

# LINKING PRECISION WITH PERFORMANCE QUICK COUPLING SOLUTIONS



DISCOVER  
OUR VARIETY.  
**FLEXQ** Connectors  
WORLDWIDE.



## Expertise in Coupling Technology – Since 2003

Founded in autumn 2003, baha Tools GmbH has established itself as one of the leading companies in the field of pneumatic and hydraulic connection technology. Today, we are recognized nationwide as a key supplier of coupling systems, accessory components, and technical industrial supplies.

Our core competency lies in the development, optimization, and delivery of advanced coupling technologies for a wide range of applications. Whether in automation, mechanical engineering, medical technology, mobile hydraulics, or industrial production – baha Tools offers practical, high-performance solutions characterized by precision, reliability, and efficiency.

A major milestone in our company's development is the launch of our own coupling brand **FLEXQ**. This newly introduced product line sets new standards with a focus on:

- Ergonomic handling
- High flow capacity with minimal pressure loss
- Durability through high-grade materials such as AISI 316L, AISI 420, or chrome-plated steel
- Enhanced safety through integrated disconnect locks
- Compatibility with existing systems and interfaces

With this new generation of couplings, baha Tools combines proven industry standards with innovative product design and customer-specific solutions – ensuring maximum performance and operational safety even under demanding conditions.

Our technical excellence is driven by a team of experienced, qualified, and dedicated professionals who work with a strong sense of responsibility and entrepreneurial spirit. This allows us to deliver real added value – for our customers, for the market, and for the future of connection technology.

Dipl.-Ing. Aydin Hanedar  
CEO

Dipl.-Ing. Stephan Hüwel  
CTO



## Valve-types

### Double-shut-off



Socket and plug with shut-off valve

Socket and plug with integrated shut-off valves enable safe and convenient connection and disconnection of lines in pressurized systems. The integrated valve ensures that the flow is automatically interrupted when disconnecting, thus preventing the uncontrolled escape of media.

### Single-shut-off

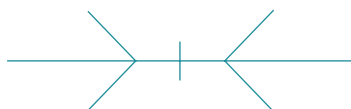


Socket with shut-off valve - nipple with free passage

This combination of a socket with an integrated shut-off valve and a free-flow plug offers a reliable solution for applications requiring controlled media flow. When the connection is disconnected, the valve in the coupling closes automatically, preventing media from escaping on the supply side.

The free-flow plug, on the other hand, allows unimpeded flow without valve resistance and is ideal for applications requiring maximum flow rate.

### Free flow



Socket and plug with free passage - without shut-off valves

This design consists of a coupling and a plug with a free passage and does not require an integrated shut-off valve. It allows for unimpeded, low-loss flow and is particularly suitable for applications requiring maximum flow rate.

The absence of a valve results in a particularly simple design and low flow resistance. The robust construction ensures high reliability and a long service life.

Ideally suited for compressed air and fluid technology applications where an automatic shut-off function is not required.



## Monocouplings

| Type | Description                                      | Media                | Max. Pressure | Page |                                                                                       |
|------|--------------------------------------------------|----------------------|---------------|------|---------------------------------------------------------------------------------------|
| CPT  | Flat Face Push-Pull                              | Fluids               | 50            | 10   |    |
| CPX  | Flat Face Push-Pull                              | Hydraulics<br>Fluids | 180-400       | 18   |    |
| GPT  | Full Flow                                        | Fluids               | 10            | 24   |    |
| HHT  | Full Flow                                        | Fluids               | 75-460        | 39   |   |
| HPF  | ISO 16028 Flat-Face                              | Hydraulics           | 250-400       | 36   |  |
| HPT  | European Standard Profile<br>for Cooling         | Fluids               | 10-15         | 40   |  |
| IPT  | International Standard Profile<br>For Cooling    | Fluids               | 10-15         | 52   |  |
| MPT  | High Flow French Standard<br>Profile for Cooling | Fluids               | 16            | 64   |  |
| PPT  | ISO 7241-1 Series B Standard                     | Hydraulics<br>Fluids | 50-300        | 106  |  |
| RPT  | Ultra Flow Flat Face                             | Fluids               | 15-60         | 112  |  |
| SPF  | High Flow Flat Face                              | Hydraulics           | 350-450       | 118  |  |
| SXF  | High Flow Flat Face                              | Hydraulics           | 350-450       | 122  |  |
| UPT  | French Standard Profile<br>for Cooling           | Fluids               | 10            | 130  |  |
| WHT  | High Temperature                                 | Fluids               | 20            | 138  |  |

## Monocouplings with push-button

| Type | Description                              | Media              | Max. Pressure | Page |
|------|------------------------------------------|--------------------|---------------|------|
| PBS  | Push-button ISO 6150-C safety            | Pneumatics         | 16            | 76   |
| PBP  | Push-button Steel / Stainless steel      | Pneumatics / Gases | 50            | 88   |
| PBW  | Push-button Stainless steel              | Fluids             | 50            | 88   |
| PBH  | Push-button Stainless steel / AISI 316 L | Hydraulics         | 250-350       | 96   |
| PBI  | Push-button AISI 316 L                   | Fluids / Gases     | 16            | 100  |



## Multicouplings

| Type | Description                             | Media      | Max. Pressure | Page |                                                                                       |
|------|-----------------------------------------|------------|---------------|------|---------------------------------------------------------------------------------------|
| RPC  | Flat Face                               | Hydraulics | 200           | 144  |    |
| MPC  | Flat Face                               | Hydraulics | 100           | 158  |    |
| HPT  | High Flow European Standard for Cooling | Fluids     | 16            | 172  |    |
| MPT  | High Flow French Standard for Cooling   | Fluids     | 16            | 180  |   |
| MXT  | Ultra Flow Flat Face                    | Fluids     | 16            | 200  |  |
| RPT  | Ultra Flow Flat Face                    | Fluids     | 16            | 208  |  |

## Collectors

|     |                               |                      |    |     |                                                                                       |
|-----|-------------------------------|----------------------|----|-----|---------------------------------------------------------------------------------------|
| AV  | Aluminum Collectors           | Pneumatics<br>Fluids | 30 | 218 |  |
| AVS | Aluminum Collectors stackable | Pneumatics<br>Fluids | 30 | 222 |  |
| BV  | Brass Collectors              | Pneumatics<br>Fluids | 16 | 226 |  |
| EV  | Stainless Steel Collectors    | Pneumatics<br>Fluids | 20 | 230 |  |

## Hoses

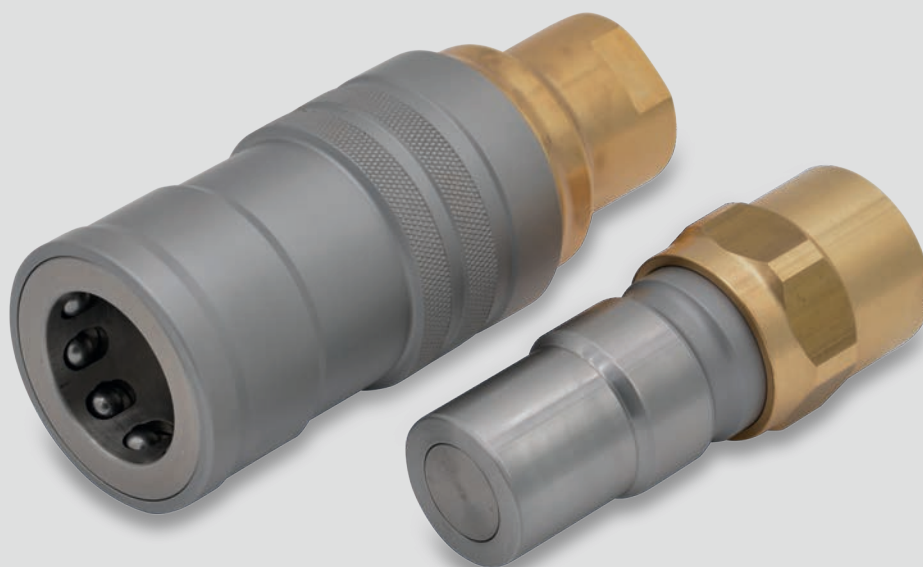
| Type        | Description              | Media                 | Max. Pressure | Page |                                                                                       |
|-------------|--------------------------|-----------------------|---------------|------|---------------------------------------------------------------------------------------|
| MNG-E95S    | Water / Air Hose         | Pneumatics,<br>Fluids | 20            | 235  |    |
| MNG-P100S   | Clampless hose for water | Fluids                | 21-24         | 236  |    |
| MNG-P120S   | Clampless Hose for water | Fluids                | 16            | 237  |    |
| MNG-P140S   | Clampless Hose for water | Fluids                | 21-28         | 238  |   |
| MNG-E140S   | Water Hose               | Fluids                | 20            | 239  |  |
| MNG-TRX-100 | Water Hose               | Fluids                | 10-20         | 240  |  |
| BTH-UF      | PFA corrugated hose      | Fluids                | 30-90         | 242  |  |
| BTH-UFT     | PTFE corrugated hose     | Fluids                | 30-90         | 243  |  |

## Accessories

|                |     |                                                                                       |
|----------------|-----|---------------------------------------------------------------------------------------|
| Pressure plugs | 247 |  |
| Adapters       | 248 |  |
| Ball valves    | 254 |  |
| Hose clamps    | 256 |  |
| Tools          | 258 |  |

**FLEXQ**  
CONNECTORS

**CPT**  
Flat Face Push-Pull



**LINKING PRECISION WITH PERFORMANCE**

8 flow sizes

CPT, the proven coupling system  
for demanding applications.

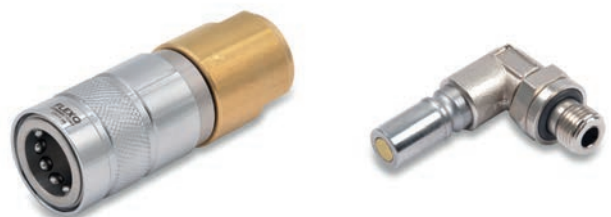
#### Characteristics

- Non spill flat face
- Optimized flow characteristics
- Ergonomic design
- Reliable and robust
- One handed operation
- Option to install the plug into recessed pocket

#### Automatic locking

The coupling system can be easily connected with one hand, even in particularly hard-to-reach areas.

CPT  
FLAT FACE PUSH PULL



VALVES

### SERIE CPT

TEMPERATURE REGULATION

PROFILE FF

#### Options

- Colour coding
- Push pull
- Special sleeve

R / B  
PP  
GH

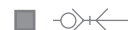
#### Applications

- Cooling and heating
- Injection molding and blow moulding



#### Materials

|               |                 |
|---------------|-----------------|
| Body Socket   | Brass           |
| Body Plug     | Stainless steel |
| Body backpart | Brass           |
| Sleeve        | Stainless steel |
| Valve         | Brass           |
| Locking Ring  | Stainless steel |
| Spring        | Stainless steel |
| Balls         | Stainless steel |
| Seals         | FPM (V)         |



#### Temperature range

|                   |   |                                                          |
|-------------------|---|----------------------------------------------------------|
| Nitril (NBR)      | N | - 15 °C +100 °C                                          |
| Fluorcarbon (FPM) | V | - 20 °C +160 °C (Water)<br>- 20 °C +200 °C (Heating Oil) |

Always make sure no medium flows before disconnecting

CPT 03 CPT 06 CPT 07 CPT 08 CPT 09 CPT 12 CPT 16 CPT 25



Flow Size

3 6 7 8 9 12 16 25

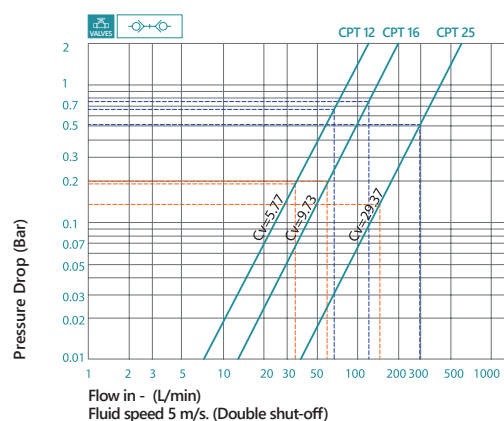
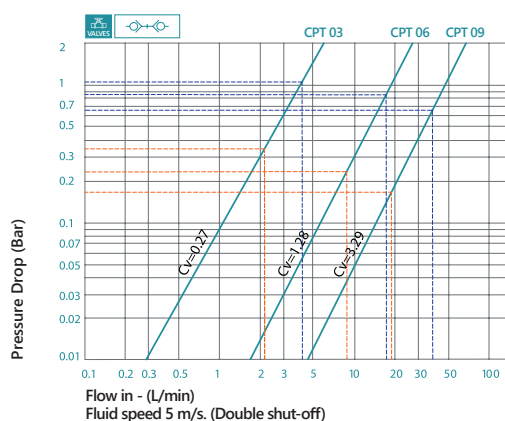


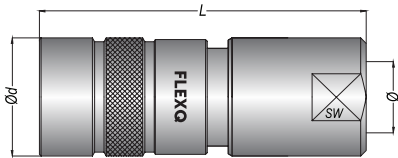
Pressure

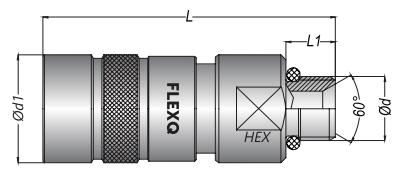
50 50 50 50 50 50 50 50

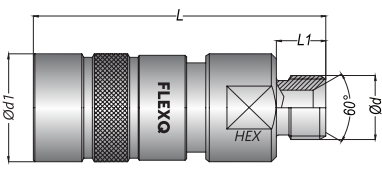
FLEXQ

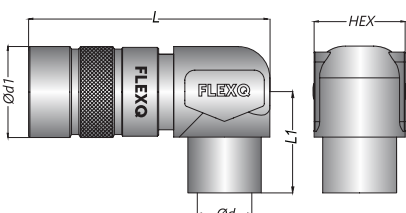
#### Serie CPT - Flow Rate vs Pressure Drop Graph

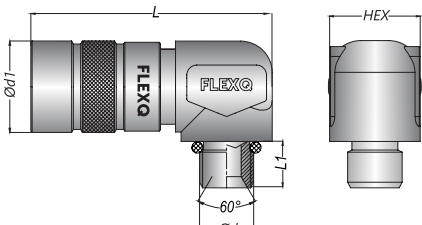


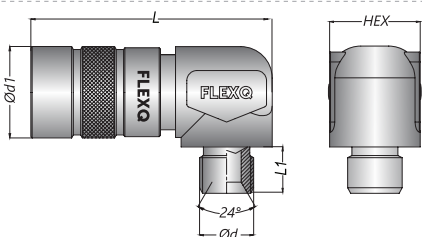
| Size |                | Ød        | Ød1 | L   | HEX | Female thread socket                                                                |
|------|----------------|-----------|-----|-----|-----|-------------------------------------------------------------------------------------|
| 3    | CPT 03 FFB 18  | BSP 1/8   | 17  | 49  | 13  |  |
|      | CPT 03 FNB 18  | NPT 1/8   | 17  | 49  | 13  |                                                                                     |
| 6    | CPT 06 FFB 14  | BSP 1/4   | 22  | 61  | 20  |                                                                                     |
|      | CPT 06 FNB 14  | NPT 1/4   | 22  | 61  | 20  |                                                                                     |
|      | CPT 06 FFB 38  | BSP 3/8   | 22  | 65  | 21  |                                                                                     |
| 7    | CPT 07 FFB 14  | BSP 1/4   | 22  | 61  | 20  |                                                                                     |
|      | CPT 07 FNB 14  | NPT 1/4   | 22  | 61  | 20  |                                                                                     |
|      | CPT 07 FFB 38  | BSP 3/8   | 22  | 65  | 21  |                                                                                     |
| 9    | CPT 09 FFB 38  | BSP 3/8   | 30  | 76  | 24  |                                                                                     |
|      | CPT 09 FNB 12  | NPT 1/2   | 30  | 78  | 25  |                                                                                     |
|      | CPT 09 FFB 12  | BSP 1/2   | 30  | 78  | 25  |                                                                                     |
| 12   | CPT 12 FFB 12  | BSP 1/2   | 44  | 103 | 27  |                                                                                     |
|      | CPT 12 FNB 12  | NPT 1/2   | 44  | 103 | 27  |                                                                                     |
| 16   | CPT 16 FFB 34  | BSP 3/4   | 55  | 130 | 36  |                                                                                     |
|      | CPT 16 FNB 34  | NPT 3/4   | 55  | 130 | 36  |                                                                                     |
| 25   | CPT 25 FFB 10  | BSP 1     | 67  | 148 | 55  |                                                                                     |
|      | CPT 25 FNB 10  | NPT 1     | 67  | 148 | 55  |                                                                                     |
|      | CPT 25 FFB 114 | BSP 1 1/4 | 67  | 148 | 55  |                                                                                     |
|      | CPT 25 FNB 114 | NPT 1 1/4 | 67  | 148 | 55  |                                                                                     |

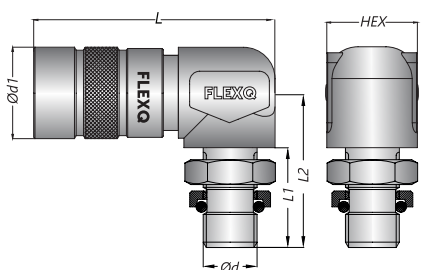
| Size |                | Ød        | Ø1 | L   | L1 | HEX | Cylindrical male thread socket with O-Ring                                                            |
|------|----------------|-----------|----|-----|----|-----|-------------------------------------------------------------------------------------------------------|
| 3    | CPT 03 FOB 18  | BSP 1/8   | 17 | 47  | 8  | 14  |  <p>Cone 60°</p> |
| 6    | CPT 06 FOB 14  | BSP 1/4   | 22 | 59  | 11 | 20  |                                                                                                       |
|      | CPT 06 FOB 38  | BSP 3/8   | 22 | 60  | 12 | 20  |                                                                                                       |
| 7    | CPT 07 FOB 14  | BSP 1/4   | 22 | 59  | 11 | 20  |                                                                                                       |
|      | CPT 07 FOB 38  | BSP 3/8   | 22 | 60  | 12 | 20  |                                                                                                       |
| 9    | CPT 09 FOB 38  | BSP 3/8   | 28 | 80  | 12 | 24  |                                                                                                       |
|      | CPT 09 FOB 12  | BSP 1/2   | 28 | 84  | 14 | 24  |                                                                                                       |
| 12   | CPT 12 FOB 12  | BSP 1/2   | 55 | 103 | 15 | 36  |                                                                                                       |
| 16   | CPT 16 FOB 34  | BSP 3/4   | 55 | 132 | 18 | 38  |                                                                                                       |
| 25   | CPT 25 FOB 10  | BSP 1     | 67 | 150 | 18 | 55  |                                                                                                       |
|      | CPT 25 FOB 114 | BSP 1 1/4 | 67 | 154 | 22 | 55  |                                                                                                       |

| 24° Innerconical male thread socket                                                               | Size |                    | Ød      | Ød1 | L  | L1 | HEX |
|---------------------------------------------------------------------------------------------------|------|--------------------|---------|-----|----|----|-----|
|  <p>Cone 24°</p> | 6    | CPT 06 FMB 1615-10 | M16x1.5 | 22  | 59 | 11 | 20  |
|                                                                                                   | 7    | CPT 07 FMB 1615-10 | M16x1.5 | 22  | 59 | 11 | 20  |
|                                                                                                   | 9    | CPT 09 FMB 1815-12 | M18x1.5 | 28  | 80 | 11 | 24  |
|                                                                                                   | 3    | CPT 03 FTB 18      | NPT 1/8 | 17  | 48 | 9  | 14  |
|                                                                                                   | 6    | CPT 06 FTB 14      | NPT 1/4 | 22  | 60 | 12 | 20  |
|                                                                                                   | 7    | CPT 07 FTB 14      | NPT 1/4 | 22  | 60 | 12 | 20  |
|                                                                                                   | 9    | CPT 09 FTB 38      | NPT 3/8 | 28  | 83 | 14 | 24  |

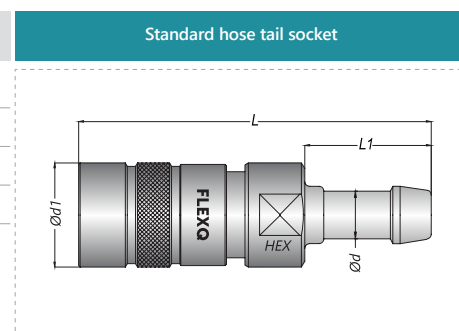
| Female thread socket 90°                                                                          | Size |                  | Ød      | Ød1 | L  | L1 | HEX |
|---------------------------------------------------------------------------------------------------|------|------------------|---------|-----|----|----|-----|
|  <p>Cone 24°</p> | 6    | CPT 06 FFB 14-90 | BSP 1/4 | 22  | 58 | 25 | 21  |
|                                                                                                   | 6    | CPT 06 FNB 14-90 | NPT 1/4 | 22  | 58 | 25 | 21  |
|                                                                                                   | 7    | CPT 07 FFB 14-90 | BSP 1/4 | 22  | 58 | 25 | 21  |
|                                                                                                   | 7    | CPT 07 FNB 14-90 | NPT 1/4 | 22  | 58 | 25 | 21  |
|                                                                                                   | 9    | CPT 07 FFB 38-90 | BSP 3/8 | 28  | 77 | 20 | 25  |

| Male thread socket 90°                                                                              | Size |                  | Ød      | Ød1 | L  | L1 | HEX |
|-----------------------------------------------------------------------------------------------------|------|------------------|---------|-----|----|----|-----|
|  <p>Cone 60°</p> | 6    | CPT 06 FOB 14-90 | BSP 1/4 | 22  | 58 | 11 | 21  |
|                                                                                                     | 7    | CPT 07 FOB 14-90 | BSP 1/4 | 22  | 58 | 11 | 21  |
|                                                                                                     | 9    | CPT 09 FOB 38-90 | BSP 3/8 | 28  | 77 | 12 | 25  |

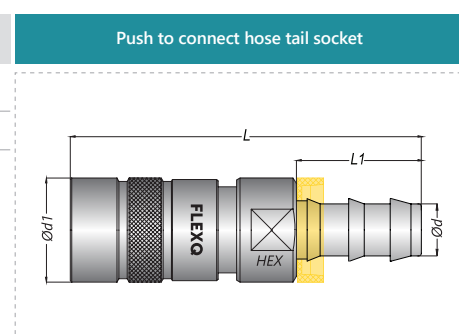
| 24°Innerconical male thread socket 90°                                                              | Size |                       | Ød      | Ød1 | L  | L1 | HEX |
|-----------------------------------------------------------------------------------------------------|------|-----------------------|---------|-----|----|----|-----|
|  <p>Cone 24°</p> | 6    | CPT 06 FMB 1615-10-90 | M16x1.5 | 22  | 58 | 11 | 21  |
|                                                                                                     | 7    | CPT 07 FMB 1615-10-90 | M16x1.5 | 22  | 58 | 11 | 21  |
|                                                                                                     | 9    | CPT 09 FMB 1815-12-90 | M18x1.5 | 28  | 77 | 12 | 25  |

| Cylindrical male thread socket 90° /                                                | Size |                     | Ød      | Ød1 | L  | L1 | L2 | HEX |
|-------------------------------------------------------------------------------------|------|---------------------|---------|-----|----|----|----|-----|
|  | 6    | CPT 06 FOB 14x24-90 | BSP 1/4 | 22  | 58 | 24 | 36 | 21  |
|                                                                                     | 7    | CPT 07 FOB 14x24-90 | BSP 1/4 | 22  | 58 | 24 | 36 | 21  |
|                                                                                     | 9    | CPT 09 FOB 38x24-90 | BSP 3/8 | 28  | 77 | 24 | 42 | 25  |

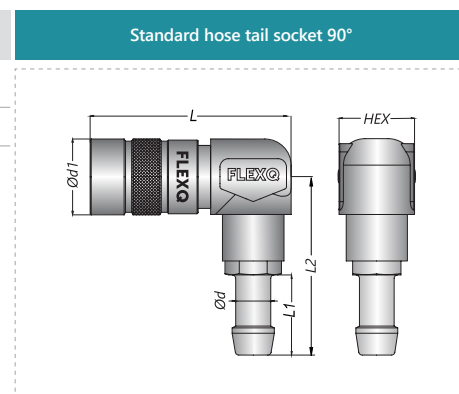
| Size |               | Ød    | Ød1 | L   | L1 | HEX |
|------|---------------|-------|-----|-----|----|-----|
| 6    | CPT 06 FHB 10 | 10 mm | 22  | 75  | 26 | 20  |
| 6    | CPT 06 FHB 12 | 12 mm | 22  | 75  | 26 | 20  |
| 7    | CPT 07 FHB 10 | 10 mm | 22  | 75  | 26 | 20  |
| 7    | CPT 07 FHB 12 | 12 mm | 22  | 75  | 26 | 20  |
| 9    | CPT 09 FHB 12 | 12 mm | 28  | 115 | 26 | 24  |



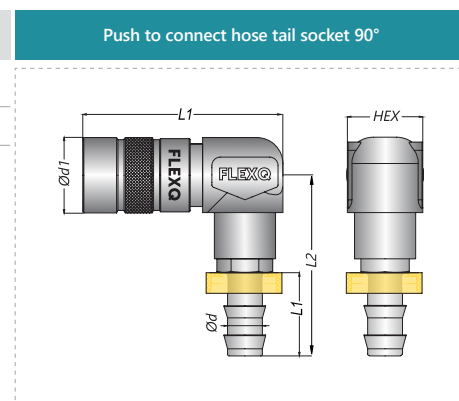
| Size |               | Ød    | Ød1 | L    | L1 | HEX |
|------|---------------|-------|-----|------|----|-----|
| 6    | CPT 06 FPB 10 | 10 mm | 22  | 72   | 24 | 20  |
| 7    | CPT 07 FPB 10 | 10 mm | 22  | 72   | 24 | 20  |
| 9    | CPT 09 FPB 13 | 13 mm | 28  | 95.5 | 28 | 24  |

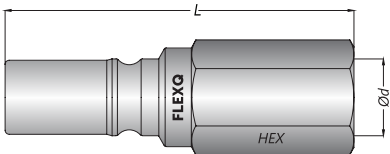


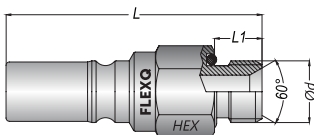
| Size |                  | Ød    | Ød1 | L  | L1 | L2 | HEX |
|------|------------------|-------|-----|----|----|----|-----|
| 6    | CPT 06 FHB 10-90 | 10 mm | 22  | 57 | 28 | 38 | 21  |
| 7    | CPT 07 FHB 10-90 | 10 mm | 22  | 57 | 28 | 38 | 21  |
| 9    | CPT 09 FHB 13-90 | 13 mm | 28  | 95 | 28 | 42 | 25  |

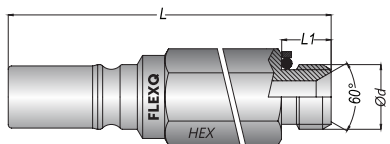


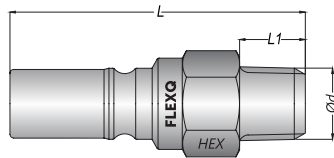
| Size |                  | Ød    | Ød1 | L  | L1 | L2 | HEX |
|------|------------------|-------|-----|----|----|----|-----|
| 6    | CPT 06 FPB 10-90 | 10 mm | 22  | 57 | 24 | 38 | 21  |
| 7    | CPT 07 FPB 10-90 | 10 mm | 22  | 57 | 24 | 38 | 21  |
| 9    | CPT 09 FPB 13-90 | 13 mm | 28  | 95 | 28 | 42 | 25  |

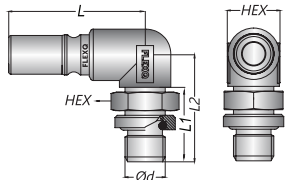


| Female thread plug                                                                | Size |                | Ød        | L   | HEX |
|-----------------------------------------------------------------------------------|------|----------------|-----------|-----|-----|
|  | 3    | CPT 03 MFB 18  | BSP 1/8   | 41  | 14  |
|                                                                                   |      | CPT 03 MNB 18  | NPT 1/8   | 41  | 20  |
|                                                                                   | 6    | CPT 06 MFB 14  | BSP 1/4   | 54  | 17  |
|                                                                                   |      | CPT 06 MFB 38  | BSP 3/8   | 54  | 19  |
|                                                                                   | 7    | CPT 07 MFB 14  | BSP 1/4   | 54  | 17  |
|                                                                                   |      | CPT 07 MFB 38  | BSP 3/8   | 54  | 19  |
|                                                                                   | 9    | CPT 09 MFB 38  | BSP 3/8   | 67  | 24  |
|                                                                                   |      | CPT 09 MNB 38  | NPT 3/8   | 67  | 24  |
|                                                                                   | 12   | CPT 12 MFB 12  | BSP 1/2   | 90  | 30  |
|                                                                                   |      | CPT 12 MNB 12  | NPT 1/2   | 90  | 30  |
|                                                                                   | 16   | CPT 16 MFB 34  | BSP 3/4   | 102 | 38  |
|                                                                                   |      | CPT 16 MNB 34  | NPT 3/4   | 102 | 38  |
|                                                                                   | 25   | CPT 25 MFB 10  | BSP 1     | 123 | 55  |
|                                                                                   |      | CPT 25 MNB 10  | NPT 1     | 123 | 55  |
|                                                                                   |      | CPT 25 MFB 114 | BSP 1-1/4 | 126 | 55  |
|                                                                                   |      | CPT 25 MNB 114 | NPT 1-1/4 | 123 | 55  |

| Cylindrical male thread plug                                                        | Size |                | Ød        | L   | L1 | HEX |
|-------------------------------------------------------------------------------------|------|----------------|-----------|-----|----|-----|
|  | 3    | CPT 03 MOB 18  | BSP 1/8   | 40  | 8  | 13  |
|                                                                                     | 6    | CPT 06 MOB 14  | BSP 1/4   | 54  | 10 | 17  |
|                                                                                     |      | CPT 06 MOB 38  | BSP 3/8   | 54  | 10 | 19  |
|                                                                                     | 7    | CPT 07 MOB 14  | BSP 1/4   | 54  | 10 | 17  |
|                                                                                     |      | CPT 07 MOB 38  | BSP 3/8   | 54  | 10 | 21  |
|                                                                                     | 9    | CPT 09 MOB 38  | BSP 3/8   | 67  | 13 | 24  |
|                                                                                     | 12   | CPT 12 MOB 12  | BSP 1/2   | 88  | 15 | 30  |
|                                                                                     | 16   | CPT 16 MOB 34  | BSP 3/4   | 103 | 18 | 38  |
|                                                                                     | 25   | CPT 25 MOB 114 | BSP 1 1/4 | 128 | 21 | 55  |

| Cylindrical male thread plug extension                                              | Size |                   | Ød      | L   | L1 | HEX |
|-------------------------------------------------------------------------------------|------|-------------------|---------|-----|----|-----|
|  | 6    | CPT 06 MOB 14-64  | BSP 1/4 | 64  | 10 | 17  |
|                                                                                     |      | CPT 06 MOB 14-82  | BSP 1/4 | 82  | 10 | 17  |
|                                                                                     |      | CPT 06 MOB 14-110 | BSP 1/4 | 112 | 10 | 17  |
|                                                                                     | 7    | CPT 07 MOB 14-64  | BSP 1/4 | 64  | 10 | 17  |
|                                                                                     |      | CPT 07 MOB 14-82  | BSP 1/4 | 82  | 10 | 17  |
|                                                                                     |      | CPT 07 MOB 14-110 | BSP 1/4 | 112 | 10 | 17  |

| Size |                |            | Ød  | L  | L1 | HEX | Conical male thread plug                                                            |
|------|----------------|------------|-----|----|----|-----|-------------------------------------------------------------------------------------|
| 6    | CPT 06 MRB 14  | BSPT 1/4   | 56  | 12 | 17 |     |  |
|      | CPT 06 MTB 14  | NPT 1/4    | 57  | 13 | 17 |     |                                                                                     |
|      | CPT 06 MRB 38  | BSPT 3/8   | 57  | 13 | 19 |     |                                                                                     |
| 7    | CPT 07 MRB 14  | BSPT 1/4   | 56  | 12 | 17 |     |                                                                                     |
|      | CPT 07 MTB 14  | NPT 1/4    | 57  | 13 | 17 |     |                                                                                     |
|      | CPT 07 MRB 38  | BSPT 3/8   | 57  | 13 | 19 |     |                                                                                     |
| 9    | CPT 09 MRB 38  | BSPT 3/8   | 69  | 13 | 23 |     |                                                                                     |
|      | CPT 09 MTB 38  | NPT 3/8    | 69  | 13 | 23 |     |                                                                                     |
| 12   | CPT 12 MRB 12  | BSPT 1/2   | 90  | 17 | 30 |     |                                                                                     |
|      | CPT 12 MTB 12  | NPT 1/2    | 90  | 17 | 30 |     |                                                                                     |
| 16   | CPT 16 MRB 34  | BSPT 3/4   | 104 | 19 | 38 |     |                                                                                     |
|      | CPT 16 MTB 34  | NPT 3/4    | 104 | 19 | 38 |     |                                                                                     |
| 25   | CPT 25 MRB 114 | BSPT 1 1/4 | 130 | 23 | 55 |     |                                                                                     |
|      | CPT 25 MTB 114 | NPT 1 1/4  | 130 | 23 | 55 |     |                                                                                     |

| Size |                     |         | Ød | L  | L1 | L2 | HEX | Cylindrical male thread plug 90°                                                      |
|------|---------------------|---------|----|----|----|----|-----|---------------------------------------------------------------------------------------|
| 6    | CPT 06 MOB 14x24-90 | BSP 1/4 | 45 | 34 | 24 | 21 |     |  |
| 7    | CPT 07 MOB 14x24-90 | BSP 1/4 | 45 | 34 | 24 | 21 |     |                                                                                       |
| 9    | CPT 09 MOB 14x38-90 | BSP 3/8 | 73 | 42 | 24 | 25 |     |                                                                                       |

**FLEXQ**  
CONNECTORS

**CPX**  
Flat Face Push-Pull



**LINKING PRECISION WITH PERFORMANCE**

8 flow sizes

CPX, the proven coupling system for demanding applications.

#### Characteristics

- Non-spill flat face
- Stainless steel
- Optimized flow characteristics
- Ergonomic design
- Reliable and robust
- One handed-operation
- Option to install plug into a recessed pocket

#### Safe and quick locking

The coupling system can be easily connected with one hand, even in particularly hard-to-reach areas.

CPX  
FLAT FACE PUSH PULL



### SERIE CPX

HYDRALICS

PROFILE FF

#### Options

- Colour coding
- Brass free
- Special sleeve

R / B  
BF  
GH

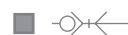
#### Applications

- Core pullers
- Injection and blow moulding



#### Materials

|               |                 |
|---------------|-----------------|
| Body Socket   | Stainless steel |
| Body Plug     | Stainless steel |
| Body backpart | Stainless steel |
| Sleeve        | Stainless steel |
| Valve         | Stainless steel |
| Locking Ring  | Stainless steel |
| Spring        | Stainless steel |
| Balls         | Stainless steel |
| Seals         | FPM (V)         |



#### Temperature range

|                   |   |                                                          |
|-------------------|---|----------------------------------------------------------|
| Nitril (NBR)      | N | - 15 °C +100 °C                                          |
| Fluorcarbon (FPM) | V | - 20 °C +160 °C (Water)<br>- 20 °C +200 °C (Heating Oil) |

Always make sure no medium flows before disconnecting

#### CPX 03 CPX 06 CPX 09 CPX 12 CPX 16



Flow Size

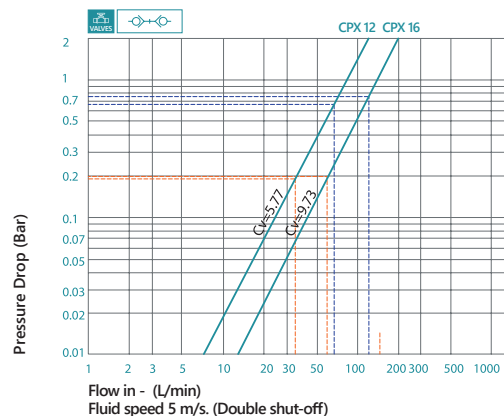
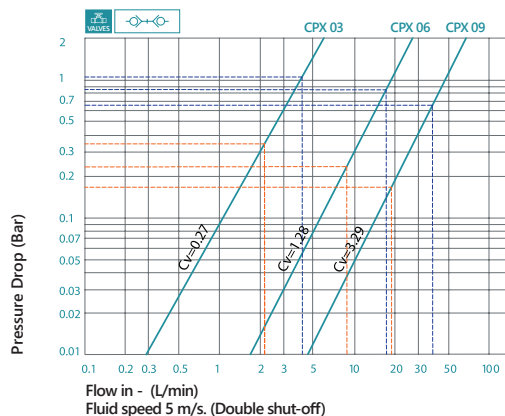
3 6 9 12 16



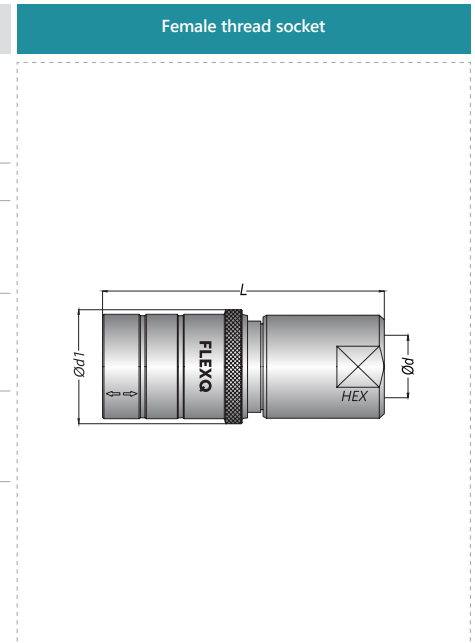
Pressure

400 180 180 180 180

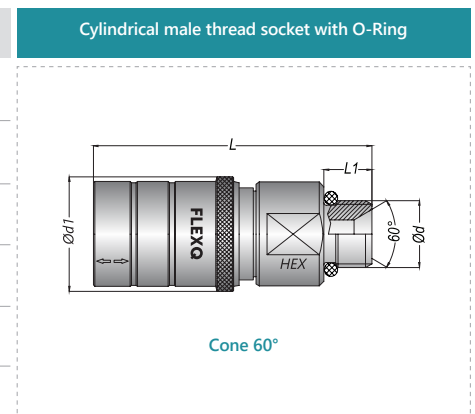
#### Serie CPX - Flow Rate vs Pressure Drop Graph



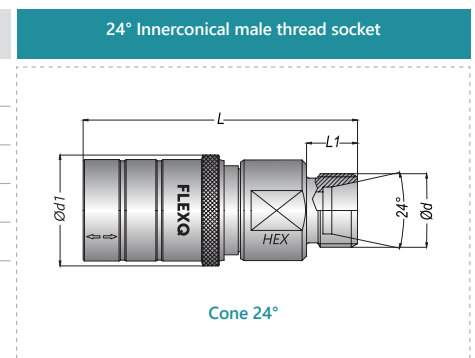
| Size |               | Ød      | Ød1 | L   | HEX |
|------|---------------|---------|-----|-----|-----|
| 3    | CPX 03 FFB 18 | BSP 1/8 | 17  | 49  | 13  |
| 6    | CPX 06 FFB 14 | BSP 1/4 | 24  | 60  | 20  |
|      | CPX 06 FNB 14 | NPT 1/4 | 24  | 60  | 20  |
|      | CPX 06 FFB 38 | BSP 3/8 | 24  | 64  | 21  |
| 9    | CPX 09 FFB 38 | BSP 3/8 | 31  | 76  | 24  |
|      | CPX 09 FNB 38 | NPT 3/8 | 31  | 76  | 24  |
| 12   | CPX 12 FFB 12 | BSP 1/2 | 48  | 103 | 27  |
|      | CPX 12 FNB 12 | NPT 1/2 | 48  | 103 | 27  |
| 16   | CPX 16 FFB 34 | BSP 3/4 | 54  | 133 | 36  |
|      | CPX 16 FNB 34 | NPT 3/4 | 54  | 130 | 36  |

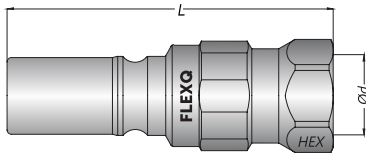


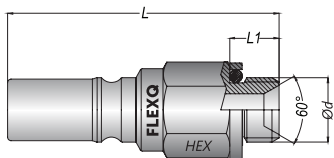
| Size |               | Ød      | Ød1 | L   | L1 | HEX |
|------|---------------|---------|-----|-----|----|-----|
| 3    | CPX 03 FOB 18 | BSP 1/8 | 17  | 49  | 10 | 14  |
| 6    | CPX 06 FOB 14 | BSP 1/4 | 24  | 60  | 11 | 20  |
| 9    | CPX 09 FOB 38 | BSP 3/8 | 31  | 80  | 12 | 24  |
| 12   | CPX 12 FOB 12 | BSP 1/2 | 44  | 109 | 14 | 27  |
| 16   | CPX 16 FOB 34 | BSP 3/4 | 54  | 137 | 20 | 32  |

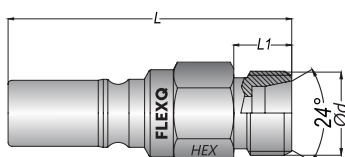


| Size |                    | Ød      | Ød1  | L   | L1 | HEX |
|------|--------------------|---------|------|-----|----|-----|
| 6    | CPX 06 FMB 1415-08 | M14x1.5 | 24   | 61  | 10 | 20  |
| 6    | CPX 06 FMB 1615-10 | M16x1.5 | 24   | 61  | 11 | 20  |
| 9    | CPX 09 FMB 1815-12 | M18x1.5 | 36   | 79  | 11 | 24  |
| 12   | CPX 12 FMB 2215-15 | M22x1.5 | 44   | 108 | 12 | 27  |
| 16   | CPX 16 FMB 3020-22 | M30x2.0 | 53.5 | 136 | 14 | 41  |



| Female thread plug                                                                | Size |               | Ød      | L    | HEX |
|-----------------------------------------------------------------------------------|------|---------------|---------|------|-----|
|  | 3    | CPX 03 MFB 18 | BSP 1/8 | 43.5 | 13  |
|                                                                                   |      | CPX 03 MNB 18 | NPT 1/8 | 41.5 | 13  |
|                                                                                   | 6    | CPX 06 MFB 14 | BSP 1/4 | 59   | 17  |
|                                                                                   |      | CPX 06 MFB 38 | BSP 3/8 | 61   | 21  |
|                                                                                   |      | CPX 06 MNB 14 | NPT 1/4 | 58   | 17  |
|                                                                                   | 9    | CPX 09 MFB 38 | BSP 3/8 | 71   | 23  |
|                                                                                   |      | CPX 09 MNB 38 | NPT 3/8 | 70   | 23  |
|                                                                                   | 12   | CPX 12 MFB 12 | BSP 1/2 | 90   | 30  |
|                                                                                   |      | CPX 12 MNB 12 | NPT 1/2 | 90   | 30  |
|                                                                                   | 16   | CPX 16 MFB 34 | BSP 3/4 | 105  | 38  |
|                                                                                   |      | CPX 16 MNB 34 | NPT 3/4 | 102  | 38  |

| Cylindrical male thread plug                                                        | Size |               | Ød      | L     | L1 | HEX |
|-------------------------------------------------------------------------------------|------|---------------|---------|-------|----|-----|
|  | 3    | CPX 03 MOB 18 | BSP 1/8 | 39.5  | 8  | 13  |
|                                                                                     | 6    | CPX 06 MOB 14 | BSP 1/4 | 54    | 10 | 17  |
|                                                                                     | 9    | CPX 09 MOB 38 | BSP 3/8 | 66    | 11 | 23  |
|                                                                                     | 12   | CPX 12 MOB 12 | BSP 1/2 | 85    | 14 | 30  |
|                                                                                     | 16   | CPX 16 MOB 34 | BSP 3/4 | 100.5 | 15 | 38  |
|                                                                                     |      | CPX 16 MOB 10 | BSP 1   | 106   | 20 | 41  |

| Cylindrical male thread plug extension                                              | Size |                    | Ød      | L  | L1 | HEX |
|-------------------------------------------------------------------------------------|------|--------------------|---------|----|----|-----|
|  | 3    | CPX 03 MMB 1215-06 | M12x1.5 | 40 | 10 | 13  |
|                                                                                     | 6    | CPX 06 MMB 1415-08 | M14x1.5 | 52 | 10 | 17  |
|                                                                                     | 6    | CPX 06 MMB 1615-10 | M16x1.5 | 53 | 11 | 17  |
|                                                                                     | 9    | CPX 09 MMB 1815-12 | M18x1.5 | 65 | 11 | 23  |
|                                                                                     | 12   | CPX 12 MMB 2215-15 | M22x1.5 | 81 | 12 | 30  |
|                                                                                     | 16   | CPX 16 MMB 3020-22 | M30x2.0 | 98 | 14 | 38  |
|                                                                                     |      |                    |         |    |    |     |

# FLEXQ

■ MONOCOUPPLINGS FOR FLUIDS / SERIES CPX



**FLEXQ**  
CONNECTORS

**GPT**  
High Flow



**LINKING PRECISION WITH PERFORMANCE**

## GPT, the free flow quick coupling system for low pressure applications and all media

### Characteristics

- Optimized flow characteristics
- One-hand connection
- Compact and ergonomic design
- Wide flow size range
- Available in stainless steel
- Chrome-plated surface

### Safe and quick locking

The stainless-steel balls provide a reliable locking. The locking sleeve is ergonomically designed - thanks to this properties GPT series becomes a comfortable and safe quick connect/disconnect coupling system.

### Chrome-plated surface

The chrome-plated nipple body made of AISI 420 is very durable and robust.

# GPT

HIGH FLOW



### SERIE GPT

FREE FLOW

#### Options

- Colour Coding
- Stainless steel

R / B  
VA

#### Applications

- Injection moulding
- Blow moulding
- Testing units



#### Materials

|              |                     |
|--------------|---------------------|
| Body Socket  | Brass chrome plated |
| Body Plug    | AISI 420 hardened   |
| Sleeve       | Brass chrome plated |
| Valve        | -                   |
| Locking Ring | Stainless steel     |
| Spring       | Stainless steel     |
| Balls        | Stainless steel     |
| Seals        | Nitrile (N)         |



#### Temperature range

|                   |   |                                                         |
|-------------------|---|---------------------------------------------------------|
| Nitril (NBR)      | N | - 15 °C +100 °C                                         |
| Fluorcarbon (FPM) | V | - 20 °C +160 °C (Water)<br>-20 °C +200 °C (Heating Oil) |

Make sure no medium flows before disconnecting

#### GPT 25 GPT 33 GPT 42



Flow Size

25 33 42

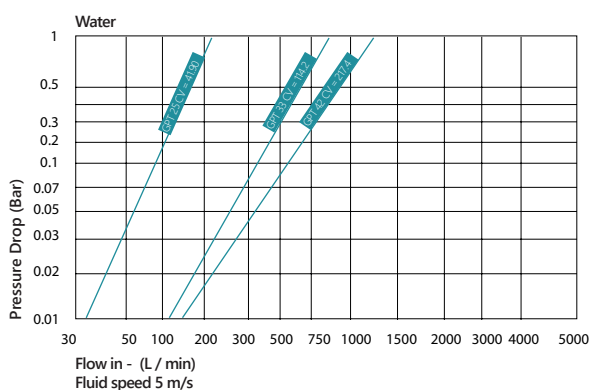


Pressure

10 10 10

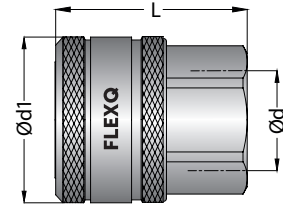
FLEXQ

#### Series GPT - Flow Rate vs Pressure Drop Graph



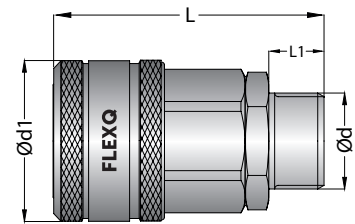
| Size |                | $\varnothing d$ | $\varnothing d1$ | L1 | HEX |
|------|----------------|-----------------|------------------|----|-----|
| 25   | GPT 25 FFF 10  | BSP 1           | 54               | 57 | 41  |
| 33   | GPT 33 FFF 114 | BSP 1-1/4       | 65               | 62 | 50  |
| 42   | GPT 42 FFF 112 | BSP 1-1/2       | 78               | 66 | 60  |

Cylindrical female thread socket



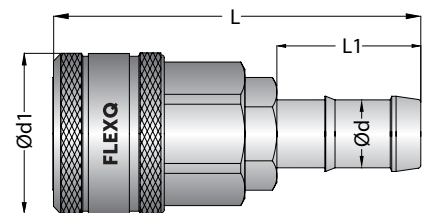
| Size |                | $\varnothing d$ | $\varnothing d1$ | L  | L1 | HEX |
|------|----------------|-----------------|------------------|----|----|-----|
| 25   | GPT 25 FMF 10  | BSP 1           | 54               | 84 | 19 | 41  |
| 33   | GPT 33 FMF 114 | BSP 1-1/4       | 65               | 91 | 19 | 50  |
| 42   | GPT 42 FMF 112 | BSP 1-1/2       | 78               | 98 | 20 | 60  |

Cylindrical male thread socket

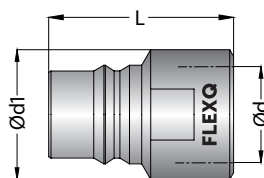


| Size |               | $\varnothing d$ | $\varnothing d1$ | L   | L1 | HEX |
|------|---------------|-----------------|------------------|-----|----|-----|
| 25   | GPT 25 FHF 25 | 25 mm           | 54               | 117 | 50 | 41  |
| 25   | GPT 25 FHF 32 | 32 mm           | 54               | 117 | 50 | 41  |
| 33   | GPT 33 FHF 32 | 32 mm           | 65               | 122 | 50 | 50  |
| 33   | GPT 33 FHF 38 | 38 mm           | 65               | 122 | 50 | 50  |
| 42   | GPT 42 FHF 44 | 44 mm           | 78               | 126 | 50 | 60  |

Standard hose tail socket

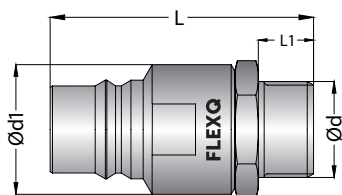


### Cylindrical female thread plug



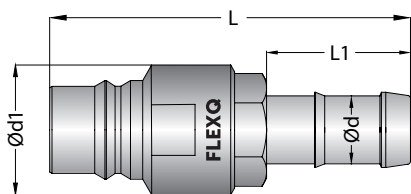
| Size |                | Ød        | Ød1 | L1 | HEX |
|------|----------------|-----------|-----|----|-----|
| 25   | GPT 25 MFF 10  | BSP 1     | 45  | 61 | 41  |
| 33   | GPT 33 MFF 114 | BSP 1-1/4 | 55  | 66 | 50  |
| 42   | GPT 42 MFF 112 | BSP 1-1/2 | 65  | 74 | 60  |

### Cylindrical male thread plug



| Size |                | Ød        | Ød1 | L   | L1 | HEX |
|------|----------------|-----------|-----|-----|----|-----|
| 25   | GPT 25 MMF 10  | BSP 1     | 45  | 88  | 19 | 41  |
| 33   | GPT 33 MMF 114 | BSP 1-1/4 | 55  | 95  | 19 | 50  |
| 42   | GPT 42 MMF 112 | BSP 1-1/2 | 65  | 106 | 20 | 60  |

### Standard hose tail plug



| Size |               | Ød    | Ød1 | L   | L1 | HEX |
|------|---------------|-------|-----|-----|----|-----|
| 25   | GPT 25 MHF 25 | 25 mm | 54  | 120 | 50 | 41  |
| 25   | GPT 25 MHF 32 | 32 mm | 54  | 120 | 50 | 41  |
| 33   | GPT 33 MHF 32 | 32 mm | 55  | 125 | 50 | 50  |
| 33   | GPT 33 MHF 38 | 38 mm | 55  | 125 | 50 | 50  |
| 42   | GPT 42 MHF 44 | 44 mm | 65  | 130 | 50 | 60  |

# FLEXQ

■ MONOCOUPPLINGS FOR FLUIDS / SERIES GPT



**FLEXQ**  
CONNECTORS

**HHT**  
Full Flow



**LINKING PRECISION WITH PERFORMANCE**

HHT, the international standard quick coupling system for low pressure applications and all media

#### Characteristics

- Optimized flow characteristics
- Ergonomic and compact design
- Wide flow size range
- Available in stainless-steel
- International profile

#### Safe and quick locking

The stainless-steel balls provide a reliable locking. The locking sleeve is ergonomically designed - thanks to this properties HHT series becomes a comfortable and safe quick connect/disconnect coupling system.

HHT  
COOLING STANDARD



## SERIE HHT

FULL FLOW

PROFILE INTERNATIONAL

### Options

- Colour coding
- Stainless steel
- Steel
- Safety locking

R / B  
VA  
ST  
S

### Applications

- Cooling and heating
- Injection and blow moulding
- Testing units

|              | Brass version   |              | Steel version     |
|--------------|-----------------|--------------|-------------------|
| Body Socket  | Brass           | Body Socket  | Steel zinc plated |
| Body Plug    | Brass           | Body Plug    | Steel zinc plated |
| Sleeve       | Brass           | Sleeve       | Steel zinc plated |
| Locking Ring | Stainless steel | Locking Ring | Stainless steel   |
| Spring       | Stainless steel | Spring       | Stainless steel   |
| Balls        | Stainless steel | Balls        | Stainless steel   |
| Seals        | Nitril (NBR)    | Seals        | Nitril (NBR)      |

|              | Stainless steel version |
|--------------|-------------------------|
| Body Socket  | Stainless steel         |
| Body Plug    | Stainless steel         |
| Sleeve       | Stainless steel         |
| Locking Ring | Stainless steel         |
| Spring       | Stainless steel         |
| Balls        | Stainless steel         |
| Seals        | Nitril (NBR)            |



Temperature range

|                   |   |                                                         |
|-------------------|---|---------------------------------------------------------|
| Nitril (NBR)      | N | - 15 °C +100 °C                                         |
| Fluorcarbon (FPM) | V | - 20 °C +160 °C (Water)<br>-20 °C +200 °C (Heating Oil) |



Flow Size

HHT 04 HHT 06 HHT 10 HHT 13 HHT 19 HHT 25 HHT 32 HHT 38

4 6 10 13 19 25 32 38



Pressure

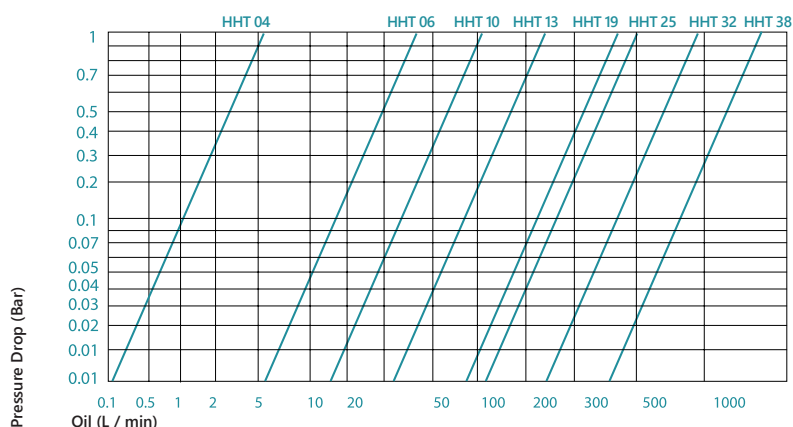
Check the table at page 31



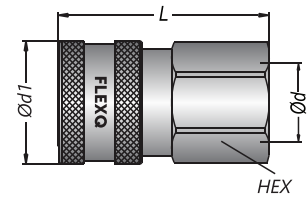
Always make sure no medium flows before disconnecting

**FLEXQ**

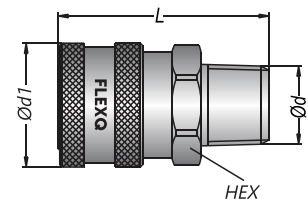
Series HHT - Flow Rate & Pressure Drop Graph

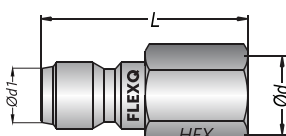


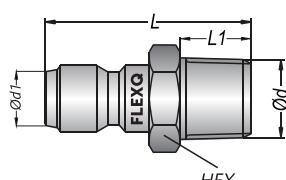
| Size |                |                   |                   | Ød        | Ød1 | L  | HEX |
|------|----------------|-------------------|-------------------|-----------|-----|----|-----|
|      | Brass          | Steel             | Stainless Steel   |           |     |    |     |
| 4    | HHT 04 FFF 18  | HHT 04 FFF 18 ST  | HHT 04 FFF 18 VA  | BSP 1/8   | 16  | 25 | 14  |
|      | HHT 04 FNF 18  | HHT 04 FNF 18 ST  | HHT 04 FNF 18 VA  | NPT 1/8   | 16  | 25 | 14  |
| 6    | HHT 06 FFF 14  | HHT 06 FFF 14 ST  | HHT 06 FFF 14 VA  | BSP 1/4   | 24  | 37 | 21  |
|      | HHT 06 FNF 14  | HHT 06 FNF 14 ST  | HHT 06 FNF 14 VA  | NPT 1/4   | 24  | 37 | 21  |
| 10   | HHT 10 FFF 38  | HHT 10 FFF 38 ST  | HHT 10 FFF 38 VA  | BSP 3/8   | 28  | 40 | 24  |
|      | HHT 10 FNF 38  | HHT 10 FNF 38 ST  | HHT 10 FNF 38 VA  | NPT 3/8   | 28  | 40 | 24  |
| 13   | HHT 13 FFF 12  | HHT 13 FFF 12 ST  | HHT 13 FFF 12 VA  | BSP 1/2   | 32  | 50 | 27  |
|      | HHT 13 FNF 12  | HHT 13 FNF 12 ST  | HHT 13 FNF 12 VA  | NPT 1/2   | 32  | 50 | 27  |
| 19   | HHT 19 FFF 34  | HHT 19 FFF 34 ST  | HHT 19 FFF 34 VA  | BSP 3/4   | 41  | 54 | 36  |
|      | HHT 19 FNF 34  | HHT 19 FNF 34 ST  | HHT 19 FNF 34 VA  | NPT 3/4   | 41  | 54 | 36  |
| 25   | HHT 25 FFF 10  | HHT 25 FFF 10 ST  | HHT 25 FFF 10 VA  | BSP 1     | 50  | 60 | 41  |
|      | HHT 25 FNF 10  | HHT 25 FNF 10 ST  | HHT 25 FNF 10 VA  | NPT 1     | 50  | 60 | 41  |
| 32   | HHT 32 FFF 114 | HHT 32 FFF 114 ST | HHT 32 FFF 114 VA | BSP 1 1/4 | 60  | 62 | 50  |
|      | HHT 32 FNF 114 | HHT 32 FNF 114 ST | HHT 32 FNF 114 VA | NPT 1 1/4 | 60  | 62 | 50  |
| 38   | HHT 38 FFF 112 | HHT 38 FFF 112 ST | HHT 38 FFF 112 VA | BSP 1 1/2 | 79  | 74 | 65  |
|      | HHT 38 FNF 112 | HHT 38 FNF 112 ST | HHT 38 FNF 112 VA | NPT 1 1/2 | 79  | 74 | 65  |



| Size |                |                   |                   | Ød         | Ød1 | L  | L1 | HEX |
|------|----------------|-------------------|-------------------|------------|-----|----|----|-----|
|      | Brass          | Steel             | Stainless Steel   |            |     |    |    |     |
| 4    | HHT 04 FRF 18  | HHT 04 FRF 18 ST  | HHT 04 FRF 18 VA  | BSPT 1/8   | 16  | 26 | 9  | 14  |
|      | HHT 04 FTF 18  | HHT 04 FTF 18 ST  | HHT 04 FTF 18 VA  | NPT 1/8    | 16  | 26 | 9  | 14  |
| 6    | HHT 06 FRF 14  | HHT 06 FRF 14 ST  | HHT 06 FRF 14 VA  | BSPT 1/4   | 24  | 40 | 12 | 21  |
|      | HHT 06 FTF 14  | HHT 06 FTF 14 ST  | HHT 06 FTF 14 VA  | NPT 1/4    | 24  | 40 | 12 | 21  |
| 10   | HHT 10 FRF 38  | HHT 10 FRF 38 ST  | HHT 10 FRF 38 VA  | BSPT 3/8   | 28  | 43 | 12 | 24  |
|      | HHT 10 FTF 38  | HHT 10 FTF 38 ST  | HHT 10 FTF 38 VA  | NPT 3/8    | 28  | 43 | 12 | 24  |
| 13   | HHT 13 FRF 12  | HHT 13 FRF 12 ST  | HHT 13 FRF 12 VA  | BSPT 1/2   | 32  | 51 | 17 | 27  |
|      | HHT 13 FTF 12  | HHT 13 FTF 12 ST  | HHT 13 FTF 12 VA  | NPT 1/2    | 32  | 51 | 17 | 27  |
| 19   | HHT 19 FRF 34  | HHT 19 FRF 34 ST  | HHT 19 FRF 34 VA  | BSPT 3/4   | 41  | 57 | 19 | 36  |
|      | HHT 19 FTF 34  | HHT 19 FTF 34 ST  | HHT 19 FTF 34 VA  | NPT 3/4    | 41  | 57 | 19 | 36  |
| 25   | HHT 25 FRF 10  | HHT 25 FRF 10 ST  | HHT 25 FRF 10 VA  | BSPT 1     | 50  | 66 | 23 | 41  |
|      | HHT 25 FTF 10  | HHT 25 FTF 10 ST  | HHT 25 FTF 10 VA  | NPT 1      | 50  | 66 | 23 | 41  |
| 32   | HHT 32 FRF 114 | HHT 32 FRF 114 ST | HHT 32 FRF 114 VA | BSPT 1 1/4 | 60  | 78 | 24 | 50  |
|      | HHT 32 FTF 114 | HHT 32 FTF 114 ST | HHT 32 FTF 114 VA | NPT 1 1/4  | 60  | 78 | 24 | 50  |
| 38   | HHT 38 FRF 112 | HHT 38 FRF 112 ST | HHT 38 FRF 112 VA | BSPT 1 1/2 | 79  | 80 | 25 | 65  |
|      | HHT 38 FTF 112 | HHT 38 FTF 112 ST | HHT 38 FTF 112 VA | NPT 1 1/2  | 79  | 80 | 25 | 65  |



| Female thread plug                                                                | Size |                |                   |                   | Ød        | Ød1 | L  | HEX |
|-----------------------------------------------------------------------------------|------|----------------|-------------------|-------------------|-----------|-----|----|-----|
|                                                                                   |      | Brass          | Steel             | Stainless steel   |           |     |    |     |
|  | 4    | HHT 04 MFF 18  | HHT 04 MFF 18 ST  | HHT 04 MFF 18 VA  | BSP 1/8   | 8   | 24 | 14  |
|                                                                                   |      | HHT 04 MNF 18  | HHT 04 MNF 18 ST  | HHT 04 MNF 18 VA  | NPT 1/8   | 8   | 24 | 14  |
|                                                                                   | 6    | HHT 06 MFF 14  | HHT 06 MFF 14 ST  | HHT 06 MFF 14 VA  | BSP 1/4   | 12  | 36 | 17  |
|                                                                                   |      | HHT 06 MNF 14  | HHT 06 MNF 14 ST  | HHT 06 MNF 14 VA  | NPT 1/4   | 12  | 36 | 17  |
|                                                                                   | 10   | HHT 10 MFF 38  | HHT 10 MFF 38 ST  | HHT 10 MFF 38 VA  | BSP 3/8   | 15  | 42 | 22  |
|                                                                                   |      | HHT 10 MNF 38  | HHT 10 MNF 38 ST  | HHT 10 MNF 38 VA  | NPT 3/8   | 15  | 42 | 22  |
|                                                                                   | 13   | HHT 13 MFF 12  | HHT 13 MFF 12 ST  | HHT 13 MFF 12 VA  | BSP 1/2   | 18  | 48 | 24  |
|                                                                                   |      | HHT 13 MNF 12  | HHT 13 MNF 12 ST  | HHT 13 MNF 12 VA  | NPT 1/2   | 18  | 48 | 24  |
|                                                                                   | 19   | HHT 19 MFF 34  | HHT 19 MFF 34 ST  | HHT 19 MFF 34 VA  | BSP 3/4   | 25  | 49 | 30  |
|                                                                                   |      | HHT 19 MNF 34  | HHT 19 MNF 34 ST  | HHT 19 MNF 34 VA  | NPT 3/4   | 25  | 49 | 30  |
|                                                                                   | 25   | HHT 25 MFF 10  | HHT 25 MFF 10 ST  | HHT 25 MFF 10 VA  | BSP 1     | 33  | 60 | 38  |
|                                                                                   |      | HHT 25 MNF 10  | HHT 25 MNF 10 ST  | HHT 25 MNF 10 VA  | NPT 1     | 33  | 60 | 38  |
|                                                                                   | 32   | HHT 32 MFF 114 | HHT 32 MFF 114 ST | HHT 32 MFF 114 VA | BSP 1 1/4 | 42  | 61 | 50  |
|                                                                                   |      | HHT 32 MNF 114 | HHT 32 MNF 114 ST | HHT 32 MNF 114 VA | NPT 1 1/4 | 42  | 61 | 50  |
|                                                                                   | 38   | HHT 38 MFF 112 | HHT 38 MFF 112 ST | HHT 38 MFF 112 VA | BSP 1 1/2 | 52  | 72 | 55  |
|                                                                                   |      | HHT 38 MNF 112 | HHT 38 MNF 112 ST | HHT 38 MNF 112 VA | NPT 1 1/2 | 52  | 72 | 55  |

| Male thread plug                                                                    | Size |                |                   |                   | Ød         | Ød1 | L  | L1 | HEX |
|-------------------------------------------------------------------------------------|------|----------------|-------------------|-------------------|------------|-----|----|----|-----|
|                                                                                     |      | Brass          | Steel             | Stainless Steel   |            |     |    |    |     |
|  | 4    | HHT 04 MRF 18  | HHT 04 MRF 18 ST  | HHT 04 MRF 18 VA  | BSPT 1/8   | 8   | 28 | 9  | 12  |
|                                                                                     |      | HHT 04 MTF 18  | HHT 04 MTF 18 ST  | HHT 04 MTF 18 VA  | NPT 1/8    | 8   | 28 | 9  | 12  |
|                                                                                     | 6    | HHT 06 MRF 14  | HHT 06 MRF 14 ST  | HHT 06 MRF 14 VA  | BSPT 1/4   | 12  | 38 | 11 | 14  |
|                                                                                     |      | HHT 06 MTF 14  | HHT 06 MTF 14 ST  | HHT 06 MTF 14 VA  | NPT 1/4    | 12  | 38 | 11 | 14  |
|                                                                                     | 10   | HHT 10 MRF 38  | HHT 10 MRF 38 ST  | HHT 10 MRF 38 VA  | BSPT 3/8   | 15  | 42 | 12 | 17  |
|                                                                                     |      | HHT 10 MTF 38  | HHT 10 MTF 38 ST  | HHT 10 MTF 38 VA  | NPT 3/8    | 15  | 42 | 12 | 17  |
|                                                                                     | 13   | HHT 13 MRF 12  | HHT 13 MRF 12 ST  | HHT 13 MRF 12 VA  | BSPT 1/2   | 18  | 49 | 17 | 22  |
|                                                                                     |      | HHT 13 MTF 12  | HHT 13 MTF 12 ST  | HHT 13 MTF 12 VA  | NPT 1/2    | 18  | 49 | 17 | 22  |
|                                                                                     | 19   | HHT 19 MRF 34  | HHT 19 MRF 34 ST  | HHT 19 MRF 34 VA  | BSPT 3/4   | 25  | 56 | 19 | 27  |
|                                                                                     |      | HHT 19 MTF 34  | HHT 19 MTF 34 ST  | HHT 19 MTF 34 VA  | NPT 3/4    | 25  | 56 | 19 | 27  |
|                                                                                     | 25   | HHT 25 MRF 10  | HHT 25 MRF 10 ST  | HHT 25 MRF 10 VA  | BSPT 1     | 33  | 63 | 22 | 35  |
|                                                                                     |      | HHT 25 MTF 10  | HHT 25 MTF 10 ST  | HHT 25 MTF 10 VA  | NPT 1      | 33  | 63 | 22 | 35  |
|                                                                                     | 32   | HHT 32 MRF 114 | HHT 32 MRF 114 ST | HHT 32 MRF 114 VA | BSPT 1 1/4 | 42  | 69 | 24 | 45  |
|                                                                                     |      | HHT 32 MTF 114 | HHT 32 MTF 114 ST | HHT 32 MTF 114 VA | NPT 1 1/4  | 42  | 69 | 24 | 45  |
|                                                                                     | 38   | HHT 38 MRF 112 | HHT 38 MRF 112 ST | HHT 38 MRF 112 VA | BSPT 1 1/2 | 52  | 84 | 25 | 55  |
|                                                                                     |      | HHT 38 MTF 112 | HHT 38 MTF 112 ST | HHT 38 MTF 112 VA | NPT 1 1/2  | 52  | 84 | 25 | 55  |

| Technical Specifications                                                                 |           |  | Working Pressure |       |                                  |
|------------------------------------------------------------------------------------------|-----------|--|------------------|-------|----------------------------------|
| Size                                                                                     |           |  | Brass            | Steel | Stainless steel (VA)<br>AISI 303 |
|                                                                                          |           |  | Bar              | Bar   | Bar                              |
|  HHT 04 | BSP 1/8   |  | 170              | 170   | 285                              |
|  HHT 06 | BSP 1/4   |  | 300              | 310   | 460                              |
|  HHT 10 | BSP 3/8   |  | 170              | 190   | 380                              |
|  HHT 13 | BSP 1/2   |  | 170              | 190   | 200                              |
|  HHT 19 | BSP 3/4   |  | 125              | 190   | 200                              |
|  HHT 25 | BSP 1     |  | 75               | 150   | 125                              |
|  HHT 32 | BSP 1-1/4 |  | 125              | 125   | 135                              |
|  HHT 38 | BSP 1-1/2 |  | 100              | 115   | 120                              |

**HPF**  
ISO 16028 Flat-Face



**LINKING PRECISION WITH PERFORMANCE**

## HPF, the standardized coupling system for demanding hydraulic applications

### Characteristics

- Non-spill flat face
- Optimized flow characteristics
- One-hand connection
- Ergonomic design
- Wide flow size range
- Available in stainless steel
- ISO profile (16028)

### Safe and quick locking

Depending on the size, the balls provide a reliable locking. The locking sleeve is ergonomically designed - thanks to this properties HPF series becomes a comfortable and safe coupling system and ensures safe locking and unlocking.

### Disconnecting lock

The "disconnecting lock" prevents the coupling system from unintentionally disconnecting



# HPF

ISO 16028 FLAT FACE

### SERIE HPF

ISO 16028

PROFILE FLAT FACE

#### Options

- Colour coding
- Stainless steel

R / B  
VA

#### Applications

- Test benches
- Injection moulding
- Cores

|             | Materials         |
|-------------|-------------------|
| Body Socket | Steel zinc plated |
| Body Plug   | Steel zinc plated |
| Sleeve      | Steel zinc plated |
| Valve       | Steel zinc plated |
| Spring      | Stainless steel   |
| Balls       | Stainless steel   |
| Seals       | Nitrile (N)       |

|        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| VALVES |  |  |  |  |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

|      |                   |
|------|-------------------|
| max. | Temperature range |
|------|-------------------|

|                   |   |                 |
|-------------------|---|-----------------|
| Nitril (NBR)      | N | - 15 °C +100 °C |
| Fluorcarbon (FPM) | V | - 20 °C +200 °C |

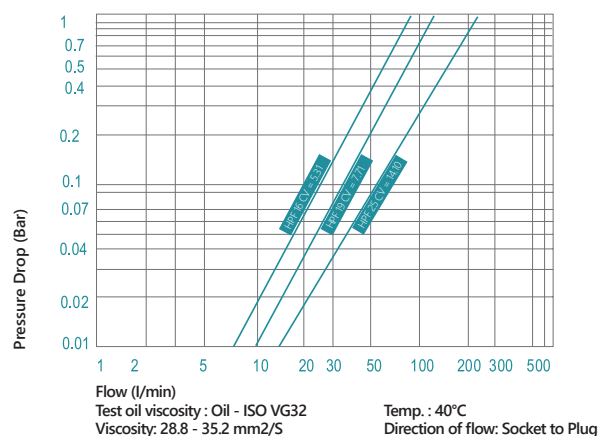
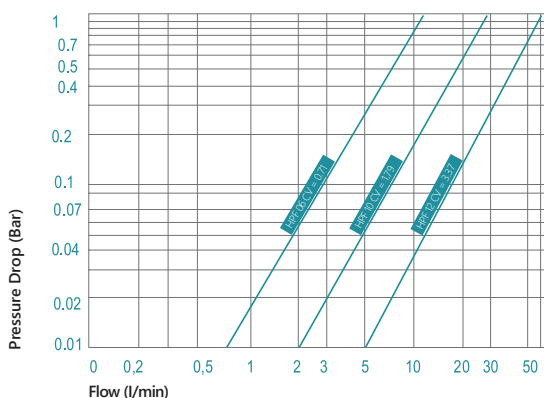
Please note the operating instructions for hydraulic couplings

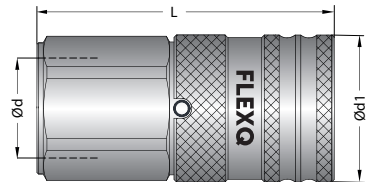
|                  | HPF 06 | HPF 10 | HPF 12 | HPF 16 | HPF 19 | HPF 25 |
|------------------|--------|--------|--------|--------|--------|--------|
| Flow Size<br>mm  | 6      | 10     | 12     | 16     | 19     | 25     |
| Pressure<br>max. | 400    | 375    | 350    | 350    | 300    | 250    |

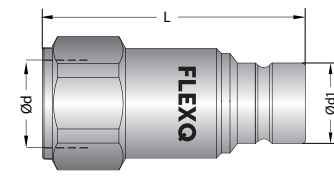


FLEXQ

#### Serie HPF - Flow Rate vs Pressure Drop Graph



| Size |               | Ød      | Ød1 | L   | HEX | Female thread socket                                                                |
|------|---------------|---------|-----|-----|-----|-------------------------------------------------------------------------------------|
| 6    | HPF 06 FFB 14 | BSP 1/4 | 28  | 58  | 22  |  |
|      | HPF 06 FNB 14 | NPT 1/4 | 28  | 58  | 22  |                                                                                     |
| 10   | HPF 10 FFB 38 | BSP 3/8 | 32  | 66  | 27  |                                                                                     |
|      | HPF 10 FNB 38 | NPT 3/8 | 32  | 66  | 27  |                                                                                     |
|      | HPF 10 FFB 12 | BSP 1/2 | 32  | 70  | 27  |                                                                                     |
|      | HPF 10 FNB 12 | NPT 1/2 | 32  | 70  | 27  |                                                                                     |
| 12   | HPF 12 FFB 12 | BSP 1/2 | 38  | 83  | 35  |                                                                                     |
|      | HPF 12 FNB 12 | NPT 1/2 | 38  | 83  | 35  |                                                                                     |
| 16   | HPF 16 FFB 34 | BSP 3/4 | 42  | 85  | 36  |                                                                                     |
|      | HPF 16 FNB 34 | NPT 3/4 | 42  | 85  | 36  |                                                                                     |
| 19   | HPF 19 FFB 10 | BSP 1   | 48  | 97  | 41  |                                                                                     |
|      | HPF 19 FNB 10 | NPT 1   | 48  | 97  | 41  |                                                                                     |
| 25   | HPF 25 FFB 10 | BSP 1   | 55  | 112 | 55  |                                                                                     |
|      | HPF 25 FNB 10 | NPT 1   | 55  | 112 | 55  |                                                                                     |

| Size |               | Ød      | Ød1  | L  | HEX | Female thread plug                                                                    |
|------|---------------|---------|------|----|-----|---------------------------------------------------------------------------------------|
| 6    | HPF 06 MFB 14 | BSP 1/4 | 16   | 52 | 22  |  |
|      | HPF 06 MNB 14 | NPT 1/4 | 16   | 52 | 22  |                                                                                       |
| 10   | HPF 10 MFB 38 | BSP 3/8 | 20   | 59 | 25  |                                                                                       |
|      | HPF 10 MNB 38 | NPT 3/8 | 20   | 59 | 25  |                                                                                       |
|      | HPF 10 MFB 12 | BSP 1/2 | 20   | 62 | 27  |                                                                                       |
|      | HPF 10 MNB 12 | NPT 1/2 | 20   | 62 | 27  |                                                                                       |
| 12   | HPF 12 MFB 12 | BSP 1/2 | 24.5 | 74 | 32  |                                                                                       |
|      | HPF 12 MNB 12 | NPT 1/2 | 24.5 | 71 | 32  |                                                                                       |
| 16   | HPF 16 MFB 34 | BSP 3/4 | 27   | 76 | 38  |                                                                                       |
|      | HPF 16 MNB 34 | NPT 3/4 | 27   | 76 | 38  |                                                                                       |
| 19   | HPF 19 MFB 10 | BSP 1   | 30   | 82 | 46  |                                                                                       |
|      | HPF 19 MNB 10 | NPT 1   | 30   | 85 | 46  |                                                                                       |
| 25   | HPF 25 MFB 10 | BSP 1   | 36   | 90 | 55  |                                                                                       |
|      | HPF 25 MNB 10 | NPT 1   | 36   | 90 | 55  |                                                                                       |

**FLEXQ**  
CONNECTORS

## HPT

European Standard Profile for Cooling



**LINKING PRECISION WITH PERFORMANCE**

## HPT, the European standard quick coupling system for low pressure applications

### Characteristics

- One-hand connection
- High quality materials
- Compact and ergonomic design
- Available in stainless steel
- Available as Multicoupling

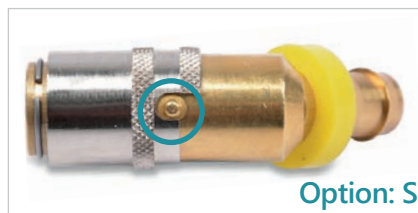
### High temperature option "HTW / HTO"

The HT option contains a high performance sealing - developed for the special requirement of high-temperature applications.

HTO: Heat resistance up to 220°C Heating oil  
HTW: Heat resistance up to 180°C. Water

### Disconnecting lock

All couplings are available with the "disconnecting lock" safety feature.



# HPT

COOLING STANDARD



VALVES

SERIE HPT

TEMPERATURE REGULATION

PROFILE EUROPE

Options

- Colour coding
- Stainless steel
- Safety locking
- High temperature

R / B  
VA  
S  
HTW  
HTO

Applications

- Cooling and heating
- Injection moulding
- Die casting

|              | Materials       |
|--------------|-----------------|
| Body Socket  | Brass           |
| Body Plug    | Brass           |
| Sleeve       | Brass           |
| Valve        | Brass           |
| Locking Ring | Stainless steel |
| Spring       | Stainless steel |
| Balls        | Stainless steel |
| Seals        | Viton (V)       |

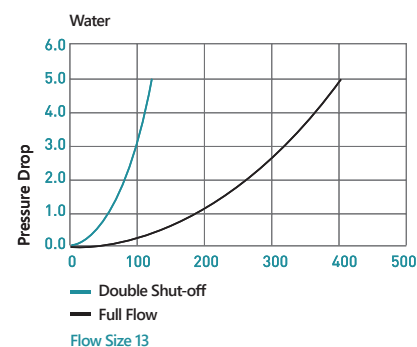
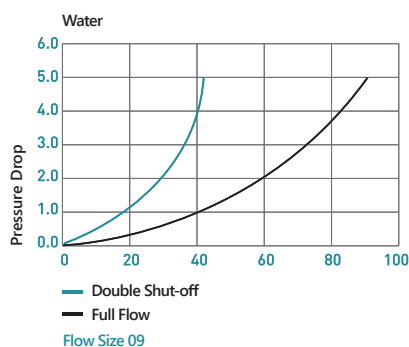
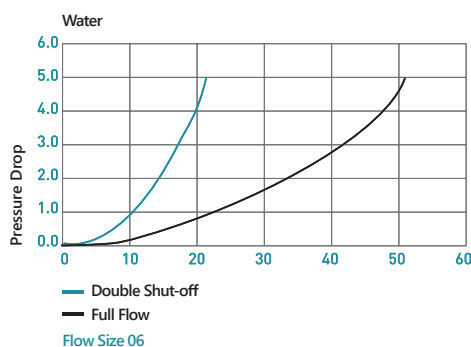
|                   |            | Temperature range                                                                                 |
|-------------------|------------|---------------------------------------------------------------------------------------------------|
| Nitril (NBR)      | N          | - 15 °C +100 °C                                                                                   |
| Fluorcarbon (FPM) | V          | - 20 °C +160 °C Water<br>- 20 °C +200 °C Heating Oil                                              |
| HT Option         | HTW<br>HTO | - 20 °C +180 °C Water<br>- 20 °C +220 °C Heating Oil<br><br>Stainless steel option is recommended |

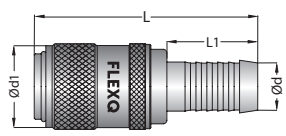
|           |                                                  |
|-----------|--------------------------------------------------|
| VALVES    | <div> <div></div> <div></div> <div></div> </div> |
| Flow Size | <div> HPT 06 HPT 09 HPT 13 </div>                |
| Pressure  | <div> 10 15 15 </div>                            |

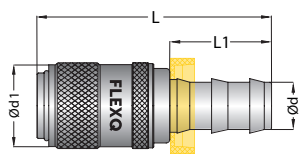


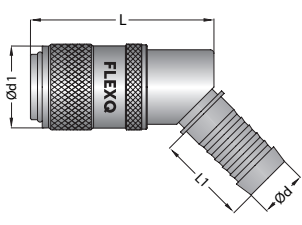
Always make sure no medium flows before disconnecting

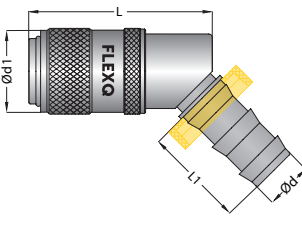
## FLEXQ Series HPT - Flow Rate & Pressure Drop Graph

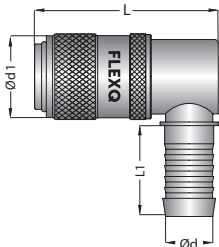


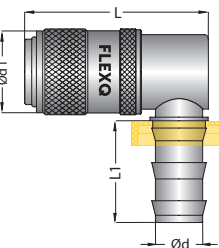
| Size |  |  | Ød | Ød1 | L  | L1 | Standard hose tail socket                                                           |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----|----|----|-------------------------------------------------------------------------------------|
| 6    | HPT 06 FHB 06                                                                     | HPT 06 FHF 06                                                                     | 06 | 18  | 49 | 20 |  |
|      | HPT 06 FHB 09                                                                     | HPT 06 FHF 09                                                                     | 09 | 18  | 49 | 20 |                                                                                     |
|      | HPT 06 FHB 13                                                                     | HPT 06 FHF 13                                                                     | 13 | 18  | 49 | 20 |                                                                                     |
| 9    | HPT 09 FHB 09                                                                     | HPT 09 FHF 09                                                                     | 09 | 23  | 59 | 23 |                                                                                     |
|      | HPT 09 FHB 13                                                                     | HPT 09 FHF 13                                                                     | 13 | 23  | 59 | 25 |                                                                                     |
| 13   | HPT 13 FHB 16                                                                     | HPT 13 FHF 16                                                                     | 16 | 32  | 90 | 32 |                                                                                     |
|      | HPT 13 FHB 19                                                                     | HPT 13 FHF 19                                                                     | 19 | 32  | 90 | 32 |                                                                                     |

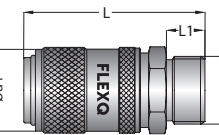
| Size |  |  | Ød | Ød1 | L  | L1 | Clampless hose tail socket                                                           |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----|----|----|--------------------------------------------------------------------------------------|
| 6    | HPT 06 FPB 06                                                                     | HPT 06 FPF 06                                                                     | 06 | 18  | 55 | 24 |  |
|      | HPT 06 FPB 10                                                                     | HPT 06 FPF 10                                                                     | 10 | 18  | 55 | 24 |                                                                                      |
|      | HPT 06 FPB 13                                                                     | HPT 06 FPF 13                                                                     | 13 | 18  | 58 | 28 |                                                                                      |
| 9    | HPT 09 FPB 10                                                                     | HPT 09 FPF 10                                                                     | 10 | 23  | 60 | 28 |                                                                                      |
|      | HPT 09 FPB 13                                                                     | HPT 09 FPF 13                                                                     | 13 | 23  | 64 | 28 |                                                                                      |
| 13   | HPT 13 FPB 16                                                                     | HPT 13 FPF 16                                                                     | 16 | 32  | 97 | 38 |                                                                                      |
|      | HPT 13 FPB 19                                                                     | HPT 13 FPF 19                                                                     | 19 | 32  | 97 | 38 |                                                                                      |

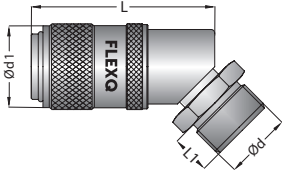
| Size |  |  | Ød | Ød1 | L  | L1 | Standard hose tail socket 45°                                                         |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-----|----|----|---------------------------------------------------------------------------------------|
| 6    | HPT 06 FHB 06-45                                                                    | HPT 06 FHF 06-45                                                                    | 06 | 18  | 42 | 19 |  |
|      | HPT 06 FHB 09-45                                                                    | HPT 06 FHF 09-45                                                                    | 09 | 18  | 42 | 19 |                                                                                       |
|      | HPT 06 FHB 13-45                                                                    | HPT 06 FHF 13-45                                                                    | 13 | 18  | 42 | 19 |                                                                                       |
| 9    | HPT 09 FHB 09-45                                                                    | HPT 09 FHF 09-45                                                                    | 09 | 23  | 52 | 24 |                                                                                       |
|      | HPT 09 FHB 13-45                                                                    | HPT 09 FHF 13-45                                                                    | 13 | 23  | 52 | 26 |                                                                                       |
| 13   | HPT 13 FHB 16-45                                                                    | HPT 13 FHF 16-45                                                                    | 16 | 32  | 82 | 34 |                                                                                       |
|      | HPT 13 FHB 19-45                                                                    | HPT 13 FHF 19-45                                                                    | 19 | 32  | 82 | 34 |                                                                                       |

| Size |  |  | Ød | Ød1 | L  | L1 | Clampless hose tail socket 45°                                                        |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-----|----|----|---------------------------------------------------------------------------------------|
| 6    | HPT 06 FPB 06-45                                                                    | HPT 06 FPF 06-45                                                                    | 06 | 18  | 41 | 24 |  |
|      | HPT 06 FPB 10-45                                                                    | HPT 06 FPF 10-45                                                                    | 10 | 18  | 41 | 24 |                                                                                       |
|      | HPT 06 FPB 13-45                                                                    | HPT 06 FPF 13-45                                                                    | 13 | 18  | 41 | 28 |                                                                                       |
| 9    | HPT 09 FPB 10-45                                                                    | HPT 09 FPF 10-45                                                                    | 10 | 23  | 52 | 24 |                                                                                       |
|      | HPT 09 FPB 13-45                                                                    | HPT 09 FPF 13-45                                                                    | 13 | 23  | 52 | 28 |                                                                                       |
| 13   | HPT 13 FPB 16-45                                                                    | HPT 13 FPF 16-45                                                                    | 16 | 32  | 88 | 38 |                                                                                       |
|      | HPT 13 FPB 19-45                                                                    | HPT 13 FPF 19-45                                                                    | 19 | 32  | 88 | 38 |                                                                                       |

| Standard hose tail socket 90°                                                     |    | Size |  |  | Ød | Ød1 | L  | L1 |
|-----------------------------------------------------------------------------------|----|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----|----|----|
|  | 6  |      | HPT 06 FHB 06-90                                                                  | HPT 06 FHF 06-90                                                                  | 06 | 18  | 41 | 21 |
|                                                                                   |    |      | HPT 06 FHB 09-90                                                                  | HPT 06 FHF 09-90                                                                  | 09 | 18  | 41 | 21 |
|                                                                                   |    |      | HPT 06 FHB 13-90                                                                  | HPT 06 FHF 13-90                                                                  | 13 | 18  | 41 | 23 |
|                                                                                   | 9  |      | HPT 09 FHB 09-90                                                                  | HPT 09 FHF 09-90                                                                  | 09 | 23  | 52 | 24 |
|                                                                                   |    |      | HPT 09 FHB 13-90                                                                  | HPT 09 FHF 13-90                                                                  | 13 | 23  | 52 | 26 |
|                                                                                   | 13 |      | HPT 13 FHB 16-90                                                                  | HPT 13 FHF 16-90                                                                  | 16 | 32  | 88 | 33 |
|                                                                                   |    |      | HPT 13 FHB 19-90                                                                  | HPT 13 FHF 19-90                                                                  | 19 | 32  | 88 | 34 |

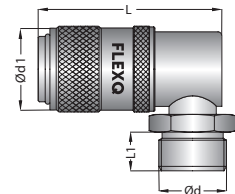
| Clampless hose tail socket 90°                                                     |    | Size |  |  | Ød | Ød1 | L  | L1 |
|------------------------------------------------------------------------------------|----|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----|----|----|
|  | 6  |      | HPT 06 FPB 06-90                                                                  | HPT 06 FPF 06-90                                                                  | 06 | 18  | 41 | 24 |
|                                                                                    |    |      | HPT 06 FPB 10-90                                                                  | HPT 06 FPF 10-90                                                                  | 10 | 18  | 41 | 24 |
|                                                                                    |    |      | HPT 06 FPB 13-90                                                                  | HPT 06 FPF 13-90                                                                  | 13 | 18  | 41 | 28 |
|                                                                                    | 9  |      | HPT 09 FPB 10-90                                                                  | HPT 09 FPF 10-90                                                                  | 10 | 23  | 52 | 24 |
|                                                                                    |    |      | HPT 09 FPB 13-90                                                                  | HPT 09 FPF 13-90                                                                  | 13 | 23  | 52 | 28 |
|                                                                                    | 13 |      | HPT 13 FPB 16-90                                                                  | HPT 13 FPF 16-90                                                                  | 16 | 32  | 88 | 38 |
|                                                                                    |    |      | HPT 13 FPB 19-90                                                                  | HPT 13 FPF 19-90                                                                  | 19 | 32  | 88 | 38 |

| Cylindrical male thread socket                                                      |    | Size |  |  | Ød      | Ød1 | L  | L1 | HEX |
|-------------------------------------------------------------------------------------|----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|-----|----|----|-----|
|  | 6  |      | HPT 06 FMB 14                                                                       | HPT 06 FMF 14                                                                       | BSP 1/4 | 18  | 47 | 11 | 17  |
|                                                                                     |    |      | HPT 06 FMB 38                                                                       | HPT 06 FMF 38                                                                       | BSP 3/8 | 18  | 47 | 11 | 19  |
|                                                                                     |    |      | HPT 06 FMB 1415                                                                     | HPT 06 FMF 1415                                                                     | M14x1.5 | 18  | 47 | 11 | 17  |
|                                                                                     |    |      | HPT 06 FMB 1615                                                                     | HPT 06 FMF 1615                                                                     | M16x1.5 | 18  | 48 | 11 | 19  |
|                                                                                     | 9  |      | HPT 09 FMB 14                                                                       | HPT 09 FMF 14                                                                       | BSP 1/4 | 23  | 52 | 11 | 21  |
|                                                                                     |    |      | HPT 09 FMB 38                                                                       | HPT 09 FMF 38                                                                       | BSP 3/8 | 23  | 52 | 11 | 21  |
|                                                                                     |    |      | HPT 09 FMB 12                                                                       | HPT 09 FMF 12                                                                       | BSP 1/2 | 23  | 52 | 14 | 22  |
|                                                                                     |    |      | HPT 09 FMB 1615                                                                     | HPT 09 FMF 1615                                                                     | M16x1.5 | 23  | 52 | 11 | 21  |
|                                                                                     | 13 |      | HPT 13 FMB 12                                                                       | HPT 13 FMF 12                                                                       | BSP 1/2 | 32  | 75 | 14 | 30  |
|                                                                                     |    |      | HPT 13 FMB 34                                                                       | HPT 13 FMF 34                                                                       | BSP 3/4 | 32  | 77 | 16 | 30  |
|                                                                                     |    |      | HPT 13 FMB 2415                                                                     | HPT 13 FMF 2415                                                                     | M24x1.5 | 32  | 77 | 16 | 30  |

| Cylindrical male thread socket 45°                                                  |    | Size |  |  | ØD      | ØD1 | L  | L1 | HEX |
|-------------------------------------------------------------------------------------|----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|-----|----|----|-----|
|  | 6  |      | HPT 06 FMB 14-45                                                                    | HPT 06 FMF 14-45                                                                    | BSP 1/4 | 18  | 43 | 11 | 14  |
|                                                                                     |    |      | HPT 06 FMB 38-45                                                                    | HPT 06 FMF 38-45                                                                    | BSP 3/8 | 18  | 43 | 11 | 17  |
|                                                                                     |    |      | HPT 06 FMB 1415-45                                                                  | HPT 06 FMF 1415-45                                                                  | M14x1.5 | 18  | 43 | 11 | 17  |
|                                                                                     |    |      | HPT 06 FMB 1615-45                                                                  | HPT 06 FMF 1615-45                                                                  | M16x1.5 | 18  | 43 | 11 | 17  |
|                                                                                     | 9  |      | HPT 09 FMB 38-45                                                                    | HPT 09 FMF 38-45                                                                    | BSP 3/8 | 23  | 52 | 11 | 17  |
|                                                                                     |    |      | HPT 09 FMB 1615-45                                                                  | HPT 09 FMF 1615-45                                                                  | M16x1.5 | 23  | 52 | 11 | 17  |
|                                                                                     | 13 |      | HPT 13 FMB 2415-45                                                                  | HPT 13 FMF 2415-45                                                                  | M24x1.5 | 32  | 88 | 16 | 24  |

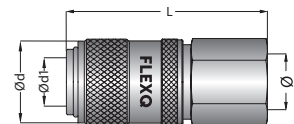
| Size |  |  | Ød      | Ød1 | L  | L1 | HEX |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-----|----|----|-----|
| 6    | HPT 06 FMB 14-90                                                                  | HPT 06 FMF 14-90                                                                  | BSP 1/4 | 18  | 43 | 11 | 14  |
|      | HPT 06 FMB 38-90                                                                  | HPT 06 FMF 38-90                                                                  | BSP 3/8 | 18  | 43 | 11 | 17  |
|      | HPT 06 FMB 1415-90                                                                | HPT 06 FMF 1415-90                                                                | M14x1.5 | 18  | 43 | 11 | 17  |
|      | HPT 06 FMB 1615-90                                                                | HPT 06 FMF 1615-90                                                                | M16x1.5 | 18  | 43 | 11 | 17  |
| 9    | HPT 09 FMB 38-90                                                                  | HPT 09 FMF 38-90                                                                  | BSP 3/8 | 23  | 52 | 11 | 17  |
|      | HPT 09 FMB 1615-90                                                                | HPT 09 FMF 1615-90                                                                | M16x1.5 | 23  | 52 | 11 | 17  |
| 13   | HPT 13 FMB 2415-90                                                                | HPT 13 FMF 2415-90                                                                | M24x1.5 | 32  | 88 | 16 | 24  |

Cylindrical male thread socket 90°



| Size |  |  | Ød      | Ød1 | L  | HEX |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-----|----|-----|
| 6    | HPT 06 FFB 14                                                                     | HPT 06 FFF 14                                                                     | BSP 1/4 | 18  | 47 | 17  |
|      | HPT 06 FFB 38                                                                     | HPT 06 FFF 38                                                                     | BSP 3/8 | 18  | 47 | 19  |
|      | HPT 06 FFB 1415                                                                   | HPT 06 FFF 1415                                                                   | M14x1.5 | 18  | 47 | 17  |
| 9    | HPT 09 FFB 14                                                                     | HPT 09 FFF 14                                                                     | BSP 1/4 | 32  | 48 | 21  |
|      | HPT 09 FFB 38                                                                     | HPT 09 FFF 38                                                                     | BSP 3/8 | 32  | 48 | 21  |
|      | HPT 09 FFB 12                                                                     | HPT 09 FFF 12                                                                     | BSP 1/2 | 32  | 51 | 24  |
|      | HPT 09 FFB 1615                                                                   | HPT 09 FFF 1615                                                                   | M16x1.5 | 32  | 28 | 21  |
| 13   | HPT 13 FFB 34                                                                     | HPT 13 FFF 34                                                                     | BSP 3/4 | 32  | 77 | 30  |

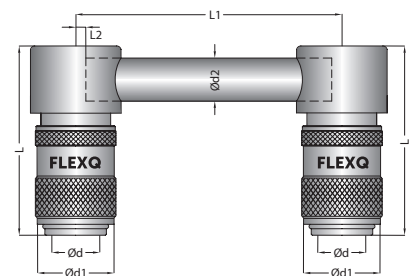
Cylindrical female thread socket



| Size |  | Without Valve  | Ød | Ød1 | Ød2  | L  | L1  | L2 |
|------|-------------------------------------------------------------------------------------|----------------|----|-----|------|----|-----|----|
| 6    |                                                                                     | HPT 06 FCF 125 | 6  | 18  | 8x1  | 44 | 125 | 2  |
|      |                                                                                     | HPT 06 FCF 250 | 6  | 18  | 8x1  | 44 | 250 | 2  |
|      |                                                                                     | HPT 06 FCF 500 | 6  | 18  | 8x1  | 44 | 500 | 2  |
| 9    |                                                                                     | HPT 09 FCF 125 | 9  | 23  | 10x1 | 52 | 125 | 2  |
|      |                                                                                     | HPT 09 FCF 250 | 9  | 23  | 10x1 | 52 | 250 | 2  |
|      |                                                                                     | HPT 09 FCF 500 | 9  | 23  | 10x1 | 52 | 500 | 2  |
| 13   |                                                                                     | HPT 13 FCF 160 | 13 | 32  | 14x1 | 80 | 160 | 3  |
|      |                                                                                     | HPT 13 FCF 315 | 13 | 32  | 14x1 | 80 | 315 | 3  |
|      |                                                                                     | HPT 13 FCF 500 | 13 | 32  | 14x1 | 80 | 500 | 3  |

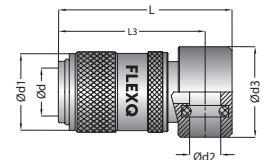
Includes 2 sockets and pipe

Bridge



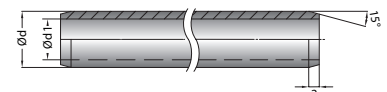
| Size |  | Without Valve | Ød | Ød1 | Ød2  | Ød3 | L  | L3 |
|------|-------------------------------------------------------------------------------------|---------------|----|-----|------|-----|----|----|
| 6    |                                                                                     | HPT 06 FCF    | 9  | 18  | 8x1  | 20  | 44 | 37 |
| 9    |                                                                                     | HPT 09 FCF    | 13 | 23  | 10x1 | 26  | 52 | 43 |
| 13   |                                                                                     | HPT 13 FCF    | 19 | 32  | 14x1 | 36  | 80 | 65 |

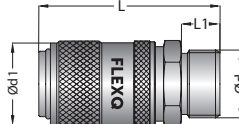
Diverting socket

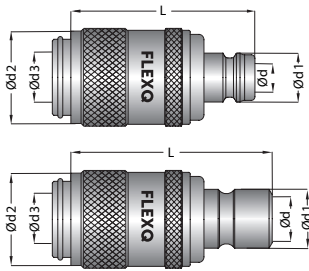


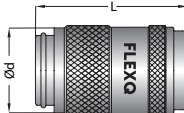
| Size | Brass Tube    | Ød | Ød1 | Length  |
|------|---------------|----|-----|---------|
| 6    | CBM 0810x1000 | 8  | 6   | 1000 mm |
| 9    | CBM 1010x1000 | 10 | 8   | 1000 mm |
| 13   | CBM 1410x1000 | 14 | 12  | 1000 mm |

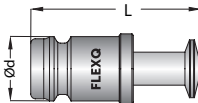
Pipe

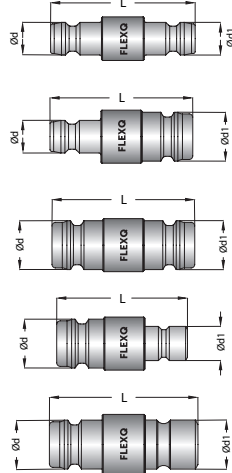


| Cylindrical male thread socket short version                                      |   |  Size |  |  |  |  | Ød | Ød1 | L | L1 | HEX |
|-----------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----|---|----|-----|
|  | 6 | HPT 06 FMB 14x38                                                                       | HPT 06 FMF 14x38                                                                  | BSP 1/4                                                                           | 18                                                                                | 38                                                                                | 9  | 17  |   |    |     |
|                                                                                   | 9 | HPT 09 FMB 38x38                                                                       | HPT 09 FMF 38x38                                                                  | BSP 3/8                                                                           | 23                                                                                | 38                                                                                | 9  | 21  |   |    |     |

| Adapting Socket with plug                                                         |   |  Size |  |  |  |  | Ød | Ød1  | Ød2 | Ød3 | L | max.flow |
|-----------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|------|-----|-----|---|----------|
|  | 6 | HPT 06 FXB HPT 06                                                                      | HPT 06 FXF HPT 06                                                                 | 6                                                                                 | 9                                                                                 | 18                                                                                | 9  | 46   | 6   |     |   |          |
|                                                                                   | 6 | HPT 06 FXB HPT 09                                                                      | HPT 06 FXF HPT 09                                                                 | 9                                                                                 | 13                                                                                | 18                                                                                | 9  | 46   | 9   |     |   |          |
|                                                                                   | 9 | HPT 09 FXB HPT 06                                                                      | HPT 09 FXF HPT 06                                                                 | 6                                                                                 | 9                                                                                 | 23                                                                                | 13 | 50.3 | 6   |     |   |          |
|                                                                                   | 9 | HPT 09 FXB HPT 09                                                                      | HPT 09 FXF HPT 09                                                                 | 9                                                                                 | 13                                                                                | 23                                                                                | 13 | 50.3 | 9   |     |   |          |
|                                                                                   | 6 | HPT 06 FXB IPT 06                                                                      | HPT 06 FXF IPT 06                                                                 | 6                                                                                 | 9.5                                                                               | 18                                                                                | 9  | 43   | 6   |     |   |          |
|                                                                                   | 6 | HPT 06 FXB IPT 09                                                                      | HPT 06 FXF IPT 09                                                                 | 9                                                                                 | 13.5                                                                              | 18                                                                                | 9  | 45   | 9   |     |   |          |
|                                                                                   | 9 | HPT 09 FXB IPT 06                                                                      | HPT 09 FXF IPT 06                                                                 | 6                                                                                 | 9.5                                                                               | 23                                                                                | 13 | 52   | 6   |     |   |          |
|                                                                                   | 9 | HPT 09 FXB IPT 09                                                                      | HPT 09 FXF IPT 09                                                                 | 9                                                                                 | 13.5                                                                              | 23                                                                                | 13 | 52   | 9   |     |   |          |

| Blind Socket                                                                        |    |  Size | Order No | Ød | L |
|-------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------|----------|----|---|
|  | 6  | HPT 06 FB                                                                                | 18       | 34 |   |
|                                                                                     | 9  | HPT 09 FB                                                                                | 23       | 40 |   |
|                                                                                     | 13 | HPT 13 FB                                                                                | 32       | 58 |   |

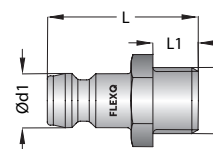
| Blind Plug                                                                          |    |  Size | Order No | Ød | L |
|-------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------|----------|----|---|
|  | 6  | HPT 06 MB                                                                                | 9        | 29 |   |
|                                                                                     | 9  | HPT 09 MB                                                                                | 13       | 31 |   |
|                                                                                     | 13 | HPT 13 MB                                                                                | 19       | 51 |   |

| Adapting Plug                                                                       |   |  Size |  |  | Ød | Ød1 | L |
|-------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-----|---|
|  | 6 | HPT 06 MXM HPT 06                                                                        | 9                                                                                   | 9                                                                                   | 34 |     |   |
|                                                                                     | 6 | HPT 09 MXM HPT 09                                                                        | 9                                                                                   | 13                                                                                  | 38 |     |   |
|                                                                                     | 9 | HPT 06 MXM HPT 09                                                                        | 13                                                                                  | 13                                                                                  | 40 |     |   |
|                                                                                     | 9 | HPT 09 MXM IPT 06                                                                        | 13                                                                                  | 9.5                                                                                 | 38 |     |   |
|                                                                                     | 9 | HPT 09 MXM IPT 09                                                                        | 13                                                                                  | 13.5                                                                                | 40 |     |   |

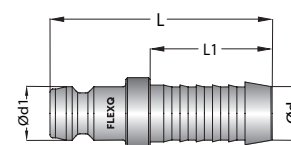
| Size |                  |          | ØD | Ød1 | L  | L1 | HEX | Male thread plug |
|------|------------------|----------|----|-----|----|----|-----|------------------|
| 6    | HPT 06 MMF 18    | BSP 1/8  | 9  | 24  | 7  | 11 |     |                  |
|      | HPT 06 MMF 14    | BSP 1/4  | 9  | 26  | 9  | 14 |     |                  |
|      | HPT 06 MMF 38    | BSP 3/8  | 9  | 26  | 9  | 17 |     |                  |
|      | HPT 06 MMF 1010  | M10x1.0  | 9  | 24  | 7  | 11 |     |                  |
|      | HPT 06 MMF 1015  | M10x1.5  | 9  | 25  | 8  | 11 |     |                  |
|      | HPT 06 MMF 1215  | M12x1.5  | 9  | 27  | 9  | 17 |     |                  |
|      | HPT 06 MMF 12175 | M12x1.75 | 9  | 27  | 9  | 14 |     |                  |
|      | HPT 06 MMF 1415  | M14x1.5  | 9  | 26  | 9  | 15 |     |                  |
|      | HPT 06 MMF 1615  | M16x1.5  | 9  | 26  | 9  | 17 |     |                  |
|      | HPT 06 MRF 18    | BSPT 1/8 | 9  | 26  | 9  | 11 |     |                  |
|      | HPT 06 MRF 14    | BSPT 1/4 | 9  | 30  | 12 | 14 |     |                  |
|      | HPT 06 MRF 38    | BSPT 3/8 | 9  | 30  | 13 | 17 |     |                  |

|   |                  |          |      |    |    |    |  |  |
|---|------------------|----------|------|----|----|----|--|--|
| 9 | HPT 09 MMF 18    | BSP 1/8  | 13.5 | 24 | 7  | 14 |  |  |
|   | HPT 09 MMF 14    | BSP 1/4  | 13.5 | 26 | 9  | 14 |  |  |
|   | HPT 09 MMF 38    | BSP 3/8  | 13.5 | 26 | 9  | 17 |  |  |
|   | HPT 09 MMF 12    | BSP 1/2  | 13.5 | 30 | 12 | 21 |  |  |
|   | HPT 09 MMF 1010  | M10x1.0  | 13.5 | 24 | 7  | 14 |  |  |
|   | HPT 09 MMF 1015  | M10x1.5  | 13.5 | 26 | 9  | 14 |  |  |
|   | HPT 09 MMF 12175 | M12x1.75 | 13.5 | 29 | 9  | 14 |  |  |
|   | HPT 09 MMF 1415  | M14x1.5  | 13.5 | 26 | 9  | 15 |  |  |
|   | HPT 09 MMF 1615  | M16x1.5  | 13.5 | 26 | 9  | 17 |  |  |
|   | HPT 09 MRF 14    | BSPT 1/4 | 13.5 | 31 | 12 | 14 |  |  |
|   | HPT 09 MRF 38    | BSPT 3/8 | 13.5 | 31 | 13 | 17 |  |  |
|   | HPT 09 MRF 12    | BSPT 1/2 | 13.5 | 36 | 16 | 22 |  |  |
|   | HPT 09 MRF 34    | BSPT 3/4 | 13.5 | 40 | 18 | 27 |  |  |

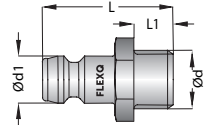
|    |                 |         |    |    |    |    |  |  |
|----|-----------------|---------|----|----|----|----|--|--|
| 13 | HPT 13 MMF 12   | BSP 1/2 | 19 | 47 | 12 | 22 |  |  |
|    | HPT 13 MMF 34   | BSP 3/4 | 19 | 51 | 16 | 27 |  |  |
|    | HPT 13 MMF 10   | BSP 1   | 19 | 53 | 17 | 35 |  |  |
|    | HPT 13 MMF 2415 | M24x1.5 | 19 | 51 | 16 | 27 |  |  |

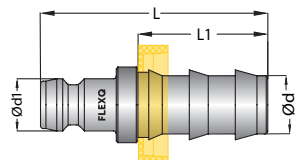


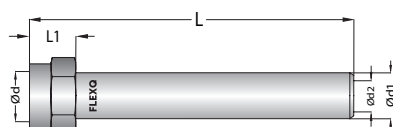
| Size |               |       | Ød   | Ød1 | L  | L1 | Standard hose tail plug |
|------|---------------|-------|------|-----|----|----|-------------------------|
| 6    | HPT 06 MHF 06 | 6 mm  | 9    | 37  | 19 |    |                         |
|      | HPT 06 MHF 09 | 9 mm  | 9    | 37  | 19 |    |                         |
|      | HPT 06 MHF 13 | 13 mm | 9    | 43  | 25 |    |                         |
| 9    | HPT 09 MHF 09 | 9 mm  | 13.5 | 40  | 24 |    |                         |
|      | HPT 09 MHF 13 | 13 mm | 13.5 | 41  | 24 |    |                         |
| 13   | HPT 13 MHF 16 | 16 mm | 19   | 54  | 24 |    |                         |
|      | HPT 13 MHF 19 | 19 mm | 19   | 61  | 32 |    |                         |



| Cylindrical male thread plug inner hex.                                                        |   | Size              |   | Ød   | Ød1 | L | L1 | HEX |
|------------------------------------------------------------------------------------------------|---|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|---|----|-----|
| <br>Inner HEX | 6 | HPT 06 MMFH 18    | BSP 1/8                                                                                                                                                             | 9    | 24  | 7 | 5  |     |
|                                                                                                |   | HPT 06 MMFH 14    | BSP 1/4                                                                                                                                                             | 9    | 27  | 9 | 5  |     |
|                                                                                                |   | HPT 06 MMFH 0875  | M8x075                                                                                                                                                              | 9    | 24  | 8 | 5  |     |
|                                                                                                |   | HPT 06 MMFH 1010  | M10x1                                                                                                                                                               | 9    | 24  | 8 | 5  |     |
|                                                                                                |   | HPT 06 MMFH 1415  | M14x1.5                                                                                                                                                             | 9    | 27  | 9 | 5  |     |
|                                                                                                | 9 | HPT 09 MMFH 18    | BSP 1/8                                                                                                                                                             | 13.5 | 24  | 7 | 7  |     |
|                                                                                                |   | HPT 09 MMFH 14    | BSP 1/4                                                                                                                                                             | 13.5 | 26  | 9 | 7  |     |
|                                                                                                |   | HPT 09 MMFH 38    | BSP 3/8                                                                                                                                                             | 13.5 | 26  | 9 | 7  |     |
|                                                                                                |   | HPT 09 MMFH 1010  | M10x1.0                                                                                                                                                             | 13.5 | 26  | 9 | 7  |     |
|                                                                                                |   | HPT 09 MMFH 12175 | M12x1.75                                                                                                                                                            | 13.5 | 26  | 9 | 7  |     |
|                                                                                                |   | HPT 09 MMFH 1415  | M14x1.5                                                                                                                                                             | 13.5 | 26  | 9 | 7  |     |

| Cylindrical male thread plug with valve                                             |    | Size            |   | Ød | Ød1 | L  | L1 | HEX |
|-------------------------------------------------------------------------------------|----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|----|----|-----|
|  | 6  | HPT 06 MMB 14   | BSP 1/4                                                                                                                                                             | 9  | 28  | 11 | 14 |     |
|                                                                                     |    | HPT 06 MMB 38   | BSP 3/8                                                                                                                                                             | 9  | 28  | 11 | 17 |     |
|                                                                                     |    | HPT 06 MMB 1415 | M14x1.5                                                                                                                                                             | 9  | 28  | 11 | 14 |     |
|                                                                                     | 9  | HPT 09 MMB 14   | BSP 1/4                                                                                                                                                             | 13 | 29  | 12 | 14 |     |
|                                                                                     |    | HPT 09 MMB 38   | BSP 3/8                                                                                                                                                             | 13 | 30  | 12 | 17 |     |
|                                                                                     |    | HPT 09 MMB 12   | BSP 1/2                                                                                                                                                             | 13 | 31  | 12 | 21 |     |
|                                                                                     |    | HPT 09 MMB 1415 | M14x1.5                                                                                                                                                             | 13 | 30  | 12 | 15 |     |
|                                                                                     |    | HPT 09 MMB 1615 | M16x1.5                                                                                                                                                             | 13 | 30  | 12 | 17 |     |
|                                                                                     | 13 | HPT 13 MMB 12   | BSP 1/2                                                                                                                                                             | 19 | 47  | 15 | 22 |     |
|                                                                                     |    | HPT 13 MMB 34   | BSP 3/4                                                                                                                                                             | 19 | 51  | 15 | 27 |     |
|                                                                                     |    | HPT 13 MMB 2415 | M24x1.5                                                                                                                                                             | 19 | 51  | 17 | 27 |     |

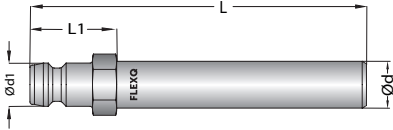
| Clampless hose tail plug                                                            |    | Size          |   | Ød   | Ød1 | L  | L1 |  |
|-------------------------------------------------------------------------------------|----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----|----|--|
|  | 6  | HPT 06 MPF 10 | 10 mm                                                                                                                                                                   | 9    | 44  | 24 |    |  |
|                                                                                     |    | HPT 06 MPF 13 | 13 mm                                                                                                                                                                   | 9    | 45  | 28 |    |  |
|                                                                                     | 9  | HPT 09 MPF 10 | 10 mm                                                                                                                                                                   | 13.4 | 43  | 24 |    |  |
|                                                                                     |    | HPT 09 MPF 13 | 13 mm                                                                                                                                                                   | 13.5 | 47  | 28 |    |  |
|                                                                                     | 13 | HPT 13 MPF 16 | 16 mm                                                                                                                                                                   | 19   | 70  | 38 |    |  |
|                                                                                     |    | HPT 13 MPF 19 | 19 mm                                                                                                                                                                   | 19   | 70  | 38 |    |  |

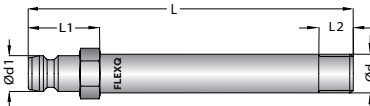
| Extension                                                                           |   | Size         |   | Ød | Ød1 | Ød2 | L  | L1 | HEX |
|-------------------------------------------------------------------------------------|---|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|-----|----|----|-----|
|  | 6 | FEN 14-120   | BSP 1/4                                                                                                                                                                 | 10 | 6   | 120 | 11 | 17 |     |
|                                                                                     | 9 | FEN 38-150   | BSP 3/8                                                                                                                                                                 | 14 | 9   | 150 | 11 | 22 |     |
|                                                                                     | 6 | FEN 1415-120 | M14x1.5                                                                                                                                                                 | 10 | 6   | 120 | 12 | 17 |     |
|                                                                                     | 9 | FEN 1615-120 | M16x1.5                                                                                                                                                                 | 14 | 9   | 150 | 12 | 22 |     |

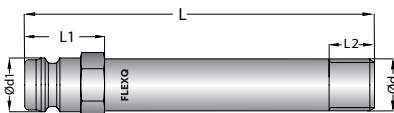
| Size |                     |  | Ød       | Ød1 | L  | L1 | L2   | HEX | Male thread plug 90°<br>Metric DIN 158 - Conical DIN 2999) |
|------|---------------------|--|----------|-----|----|----|------|-----|------------------------------------------------------------|
| 6    | HPT 06 MRF 18-90    |  | BSPT 1/8 | 9   | 27 | 9  | 23.5 | 11  |                                                            |
|      | HPT 06 MRF 14-90    |  | BSPT 1/4 | 9   | 27 | 11 | 27.5 | 15  |                                                            |
|      | HPT 06 MMF 0875-90  |  | M8x0.75  | 9   | 27 | 9  | 23.5 | 11  |                                                            |
|      | HPT 06 MMF 1010-90  |  | M10x1    | 9   | 27 | 9  | 23.5 | 11  |                                                            |
|      | HPT 06 MMF 1415-90  |  | M14x1.5  | 9   | 34 | 11 | 27.5 | 15  |                                                            |
| 9    | HPT 09 MRF 18-90    |  | BSPT 1/8 | 13  | 34 | 9  | 24.5 | 15  |                                                            |
|      | HPT 09 MRF 14-90    |  | BSPT 1/4 | 13  | 34 | 11 | 24.5 | 15  |                                                            |
|      | HPT 09 MMF 1415-90  |  | M14x1.5  | 13  | 34 | 11 | 24.5 | 15  |                                                            |
| 13   | HPT 13 MRF 12-90    |  | BSPT 1/2 | 19  | 41 | 15 | 42   | 25  |                                                            |
|      | HPT 13 MMF 2415 -90 |  | M24x1.5  | 19  | 41 | 16 | 42   | 25  |                                                            |

| Size |               |  | Ød      | Ød1 | L  | HEX | Cylindrical female thread plug |
|------|---------------|--|---------|-----|----|-----|--------------------------------|
| 6    | HPT 06 MFF 18 |  | BSP 1/8 | 9   | 23 | 13  |                                |
|      | HPT 06 MFF 14 |  | BSP 1/4 | 9   | 27 | 17  |                                |
|      | HPT 06 MFF 38 |  | BSP 3/8 | 9   | 27 | 19  |                                |
| 9    | HPT 09 MFF 14 |  | BSP 1/4 | 13  | 26 | 17  |                                |
|      | HPT 09 MFF 38 |  | BSP 3/8 | 13  | 27 | 19  |                                |
|      | HPT 09 MFF 12 |  | BSP 1/2 | 13  | 30 | 24  |                                |
| 13   | HPT 13 MFF 12 |  | BSP 1/2 | 19  | 44 | 24  |                                |
|      | HPT 13 MFF 34 |  | BSP 3/4 | 19  | 50 | 30  |                                |

| Size |                      |  | Ød      | Ød1 | L   | L1   | HEX | Male long thread plug |
|------|----------------------|--|---------|-----|-----|------|-----|-----------------------|
| 6    | HPT 06 MMFL 18x100   |  | BSP 1/8 | 9   | 100 | 6x10 | 11  |                       |
|      | HPT 06 MMFL 14x100   |  | BSP 1/4 | 9   | 100 | 6x10 | 14  |                       |
|      | HPT 06 MMFL 38x100   |  | BSP 3/8 | 9   | 100 | 6x10 | 17  |                       |
|      | HPT 06 MMFL 1010x100 |  | M10x1.0 | 9   | 100 | 6x10 | 11  |                       |
|      | HPT 06 MMFL 1415x100 |  | M14x1.5 | 9   | 100 | 6x10 | 14  |                       |
| 9    | HPT 09 MMFL 14x100   |  | BSP 1/4 | 13  | 100 | 6x10 | 14  |                       |
|      | HPT 09 MMFL 38x100   |  | BSP 3/8 | 13  | 100 | 6x10 | 17  |                       |
|      | HPT 09 MMFL 1415x100 |  | M14x1.5 | 13  | 100 | 6x10 | 14  |                       |
|      | HPT 09 MMFL 1615x100 |  | M16x1.5 | 13  | 100 | 6x10 | 17  |                       |

| Plug extension                                                                    | Size |                   | Ød | Ød1 | L   | L1 | HEX |
|-----------------------------------------------------------------------------------|------|-------------------|----|-----|-----|----|-----|
|  | 6    | HPT 06 MEF 63     | 8  | 9   | 63  | 21 | 9   |
|                                                                                   |      | HPT 06 MEF 100-08 | 8  | 9   | 100 | 21 | 9   |
|                                                                                   |      | HPT 06 MEF 100-10 | 10 | 9   | 100 | 21 | 11  |
|                                                                                   |      | HPT 06 MEF 120    | 10 | 9   | 120 | 21 | 11  |
|                                                                                   |      | HPT 06 MEF 240    | 10 | 9   | 240 | 21 | 11  |
|                                                                                   |      | HPT 06 MEF 360    | 10 | 9   | 360 | 21 | 11  |
|                                                                                   | 9    | HPT 09 MEF 50     | 14 | 13  | 50  | 22 | 15  |
|                                                                                   |      | HPT 09 MEF 100    | 14 | 13  | 100 | 22 | 15  |
|                                                                                   |      | HPT 09 MEF 120    | 14 | 13  | 120 | 22 | 15  |
|                                                                                   |      | HPT 09 MEF 150    | 14 | 13  | 150 | 22 | 15  |
|                                                                                   |      | HPT 09 MEF 300    | 14 | 13  | 300 | 22 | 15  |
|                                                                                   |      | HPT 09 MEF 450    | 14 | 13  | 450 | 22 | 15  |
|                                                                                   | 13   | HPT 13 MEF 500    | 21 | 19  | 500 | 35 | 22  |
|                                                                                   |      | HPT 13 MEF 800    | 21 | 19  | 800 | 35 | 22  |

| Male thread extension plug                                                                                                              |   |  Size |   | Ød | Ød1 | L  | L1 | L2 | HEX |
|-----------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|----|----|----|-----|
|                                                      | 6 | HPT 06 MRF 18xL                                                                          | BSPT 1/8                                                                                                                                                                | 9  | *   | 21 | 7  | 11 |     |
|                                                                                                                                         |   | HPT 06 MRF 14xL                                                                          | BSPT 1/4                                                                                                                                                                | 9  | *   | 22 | 9  | 14 |     |
|                                                                                                                                         |   | HPT 06 MMF 0875xL                                                                        | M8x0.75                                                                                                                                                                 | 9  | *   | 21 | 7  | 11 |     |
|                                                                                                                                         |   | HPT 06 MMF 1010xL                                                                        | M10x1.0                                                                                                                                                                 | 9  | *   | 21 | 7  | 11 |     |
|                                                                                                                                         |   | HPT 06 MMF 1015xL                                                                        | M14x1.5                                                                                                                                                                 | 9  | *   | 21 | 9  | 11 |     |
|  * L : Length (mm): 50 / 80 / 100 / 120 / 150 / 200 |   |                                                                                          |                                                                                                                                                                         |    |     |    |    |    |     |

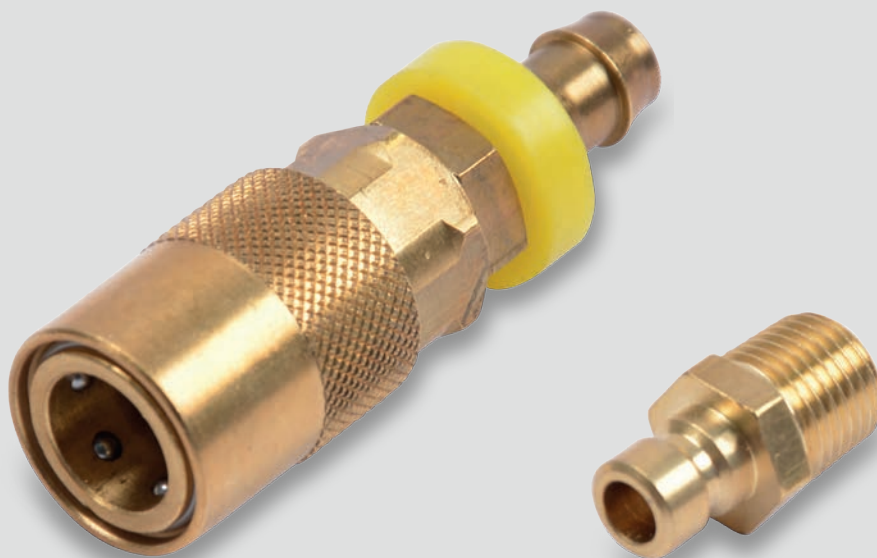
| Male thread extension plug                                                          |   | Size               |  | Ød   | Ød1 | L  | L1 | L2 | HEX |
|-------------------------------------------------------------------------------------|---|--------------------|-------------------------------------------------------------------------------------|------|-----|----|----|----|-----|
|  | 9 | HPT 09 MRF 14xL    | BSPT 1/4                                                                            | 13.5 | *   | 22 | 9  | 14 |     |
|                                                                                     |   | HPT 09 MRF 38xL    | BSPT 3/8                                                                            | 13.5 | *   | 22 | 9  | 17 |     |
|                                                                                     |   | HPT 09 MMF 18xL    | BSP 1/8                                                                             | 13.5 | *   | 22 | 7  | 14 |     |
|                                                                                     |   | HPT 09 MMF 14xL    | BSP 1/4                                                                             | 13.5 | *   | 22 | 9  | 14 |     |
|                                                                                     |   | HPT 09 MMF 38xL    | BSP 3/8                                                                             | 13.5 | *   | 22 | 9  | 17 |     |
|                                                                                     |   | HPT 09 MMF 08125xL | M8x1.25                                                                             | 13.5 | *   | 22 | 9  | 14 |     |
|                                                                                     |   | HPT 09 MMF 1010xL  | M10x1.0                                                                             | 13.5 | *   | 22 | 10 | 14 |     |
|                                                                                     |   | HPT 09 MMF 1015xL  | M10x1.5                                                                             | 13.5 | *   | 22 | 10 | 14 |     |
|                                                                                     |   | HPT 09 MMF 1215xL  | M12x1.5                                                                             | 13.5 | *   | 22 | 10 | 14 |     |
|                                                                                     |   | HPT 09 MMF 12175xL | M12x1.75                                                                            | 13.5 | *   | 22 | 10 | 14 |     |
|                                                                                     |   | HPT 09 MMF 1415xL  | M14x1.5                                                                             | 13.5 | *   | 22 | 10 | 15 |     |
|                                                                                     |   | HPT 09 MMF 1420xL  | M14x2.0                                                                             | 13.5 | *   | 22 | 10 | 15 |     |
|                                                                                     |   | HPT 09 MMF 1615xL  | M16x1.5                                                                             | 13.5 | *   | 22 | 13 | 17 |     |
|                                                                                     |   | HPT 09 MMF 1620xL  | M16x2.0                                                                             | 13.5 | *   | 22 | 13 | 17 |     |

| Size |              | Description     | Material      | Working Temp. | Replacement seal set                                                                |
|------|--------------|-----------------|---------------|---------------|-------------------------------------------------------------------------------------|
| 6    | SK HPT 06 MN | Plug Seal Kit   | NBR - Nitrile | -15°C +100°C  |  |
| 9    | SK HPT 09 MN | Plug Seal Kit   | NBR - Nitrile | -15°C +100°C  |                                                                                     |
| 13   | SK HPT 13 MN | Plug Seal Kit   | NBR - Nitrile | -15°C +100°C  |                                                                                     |
| 6    | SK HPT 06 FN | Socket Seal Kit | NBR - Nitrile | -15°C +100°C  |                                                                                     |
| 9    | SK HPT 09 FN | Socket Seal Kit | NBR - Nitrile | -15°C +100°C  |                                                                                     |
| 13   | SK HPT 13 FN | Socket Seal Kit | NBR - Nitrile | -15°C +100°C  |                                                                                     |
| 6    | SK HPT 06 MV | Plug Seal Kit   | FPM - Viton   | -20°C +200°C  |                                                                                     |
| 9    | SK HPT 09 MV | Plug Seal Kit   | FPM - Viton   | -20°C +200°C  |                                                                                     |
| 13   | SK HPT 13 MV | Plug Seal Kit   | FPM - Viton   | -20°C +200°C  |                                                                                     |
| 6    | SK HPT 06 FV | Socket Seal Kit | FPM - Viton   | -20°C +200°C  |                                                                                     |
| 9    | SK HPT 09 FV | Socket Seal Kit | FPM - Viton   | -20°C +200°C  |                                                                                     |
| 13   | SK HPT 13 FV | Socket Seal Kit | FPM - Viton   | -20°C +200°C  |                                                                                     |



# IPT

International Standard Profile for Cooling



LINKING PRECISION WITH PERFORMANCE

## IPT, the international standard quick coupling system for low pressure applications

### Characteristics

- High quality materials
- Compact and ergonomic design
- Robust sealing concept
- Available in stainless steel
- Available as multicoupling

### Clampless hose system

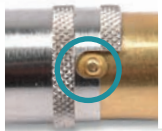
- Allows time-saving assembly without using hose clamps
- Space saving
- Reduces the risk of injury from sharp clamps
- Extensive application possibilities

### Disconnecting lock

All couplings are available with the "disconnecting lock" safety feature.



Option: SR



Option: S



# IPT

COUPLING STANDARD

### SERIE IPT

TEMPERATURE REGULATION

PROFILE INTERNATIONAL

#### Options

- Colour coding
- Stainless Steel
- Safety locking

R / B  
VA  
S

#### Applications

- Cooling and heating
- Injection moulding
- Die casting

#### Materials

|              |                 |
|--------------|-----------------|
| Body Socket  | Brass           |
| Body Plug    | Brass           |
| Sleeve       | Brass           |
| Valve        | Brass           |
| Locking Ring | Stainless steel |
| Spring       | Stainless steel |
| Balls        | Stainless steel |
| Seals        | Viton (V)       |



#### Temperature range

|                   |   |                 |             |
|-------------------|---|-----------------|-------------|
| Nitril (NBR)      | N | - 15 °C +100 °C |             |
| Fluorcarbon (FPM) | V | - 20 °C +160 °C | Water       |
|                   |   | - 20 °C +200 °C | Heating Oil |



IPT 06 IPT 09 IPT 15



Flow Size

6 9 15



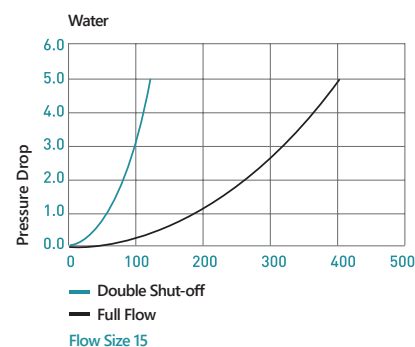
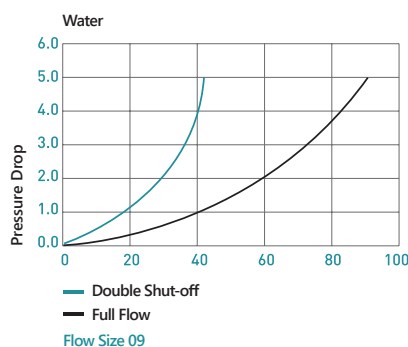
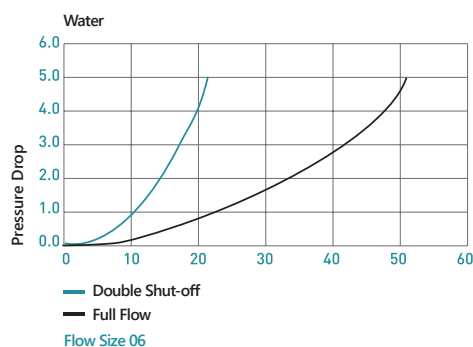
Pressure

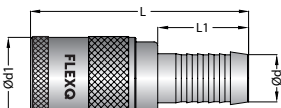
10 15 15

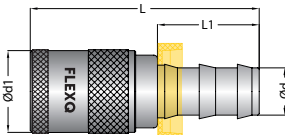
Always make sure no medium flows before disconnecting

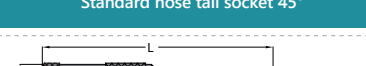
**FLEXQ**

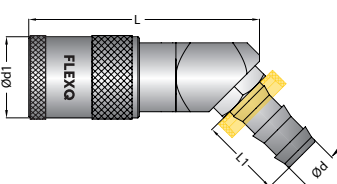
Series IPT - Flow Rate & Pressure Drop Graph

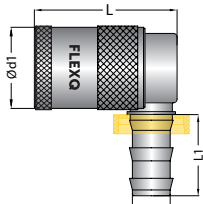


|  Size |  |  |  |  |  | Ød | Ød1 |  L  | L1 | Standard hose tail socket                                                           |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|
| 6                                                                                      | IPT 06 FHB 06                                                                     |                                                                                   | IPT 06 FHF 06                                                                     |                                                                                   | 6 mm                                                                              | 17 | 56  | 50                                                                                                                                                                    | 23 |  |
|                                                                                        | IPT 06 FHB 09                                                                     |                                                                                   | IPT 06 FHF 09                                                                     |                                                                                   | 9 mm                                                                              | 17 | 56  | 50                                                                                                                                                                    | 23 |                                                                                     |
|                                                                                        | IPT 06 FHB 13                                                                     |                                                                                   | IPT 06 FHF 13                                                                     |                                                                                   | 13 mm                                                                             | 17 | 56  | 52                                                                                                                                                                    | 25 |                                                                                     |
| 9                                                                                      | IPT 09 FHB 09                                                                     |                                                                                   | IPT 09 FHF 09                                                                     |                                                                                   | 9 mm                                                                              | 23 | 66  | 57                                                                                                                                                                    | 23 |                                                                                     |
|                                                                                        | IPT 09 FHB 13                                                                     |                                                                                   | IPT 09 FHF 13                                                                     |                                                                                   | 13 mm                                                                             | 23 | 68  | 69                                                                                                                                                                    | 25 |                                                                                     |
| 15                                                                                     | IPT 15 FHB 16                                                                     |                                                                                   | IPT 15 FHF 16                                                                     |                                                                                   | 16 mm                                                                             | 32 | 85  | 71                                                                                                                                                                    | 25 |                                                                                     |
|                                                                                        | IPT 15 FHB 19                                                                     |                                                                                   | IPT 15 FHF 19                                                                     |                                                                                   | 19 mm                                                                             | 32 | 93  | 78                                                                                                                                                                    | 28 |                                                                                     |

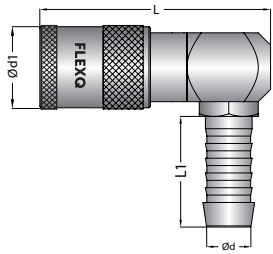
|  Size |  |  |  |  |  | Ød | Ød1 |  L | L1 | Clampless hose tail socket                                                          |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|
| 6                                                                                      | IPT 06 FPB 06                                                                     |                                                                                   | IPT 06 FPF 06                                                                     |                                                                                   | 6 mm                                                                              | 17 | 53  | 47                                                                                  | 19 |  |
|                                                                                        | IPT 06 FPB 10                                                                     |                                                                                   | IPT 06 FPF 10                                                                     |                                                                                   | 10 mm                                                                             | 17 | 58  | 50                                                                                  | 24 |                                                                                     |
|                                                                                        | IPT 06 FPB 13                                                                     |                                                                                   | IPT 06 FPF 13                                                                     |                                                                                   | 13 mm                                                                             | 17 | 62  | 54                                                                                  | 28 |                                                                                     |
| 9                                                                                      | IPT 09 FPB 10                                                                     |                                                                                   | IPT 09 FPF 10                                                                     |                                                                                   | 10 mm                                                                             | 22 | 68  | 60                                                                                  | 24 |                                                                                     |
|                                                                                        | IPT 09 FPB 13                                                                     |                                                                                   | IPT 09 FPF 13                                                                     |                                                                                   | 13 mm                                                                             | 22 | 72  | 64                                                                                  | 28 |                                                                                     |
| 15                                                                                     | IPT 15 FPB 16                                                                     |                                                                                   | IPT 15 FPF 16                                                                     |                                                                                   | 16 mm                                                                             | 32 | 101 | 84                                                                                  | 38 |                                                                                     |
|                                                                                        | IPT 15 FPB 19                                                                     |                                                                                   | IPT 15 FPF 19                                                                     |                                                                                   | 19 mm                                                                             | 32 | 101 | 84                                                                                  | 38 |                                                                                     |

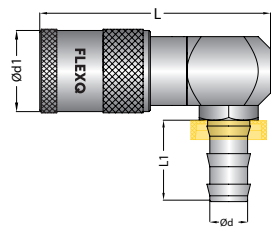
|  Size |  |  |  |  |  | Ød | Ød1 |  L  | L1 | Standard hose tail socket 45°                                                         |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------|
| 6                                                                                        | IPT 06 FHB 06-45                                                                    |                                                                                     | IPT 06 FHF 06-45                                                                    |                                                                                     | 6 mm                                                                                | 17 | 45  | 45                                                                                                                                                                        | 23 |  |
|                                                                                          | IPT 06 FHB 09-45                                                                    |                                                                                     | IPT 06 FHF 09-45                                                                    |                                                                                     | 9 mm                                                                                | 17 | 45  | 45                                                                                                                                                                        | 23 |                                                                                       |
|                                                                                          | IPT 06 FHB 13-45                                                                    |                                                                                     | IPT 06 FHF 13-45                                                                    |                                                                                     | 13 mm                                                                               | 17 | 45  | 45                                                                                                                                                                        | 23 |                                                                                       |
| 9                                                                                        | IPT 09 FHB 09-45                                                                    |                                                                                     | IPT 09 FHF 09-45                                                                    |                                                                                     | 9 mm                                                                                | 23 | 58  | 58                                                                                                                                                                        | 23 |                                                                                       |
|                                                                                          | IPT 09 FHB 13-45                                                                    |                                                                                     | IPT 09 FHF 13-45                                                                    |                                                                                     | 13 mm                                                                               | 23 | 58  | 58                                                                                                                                                                        | 25 |                                                                                       |
| 15                                                                                       | IPT 15 FHB 16-45                                                                    |                                                                                     | IPT 15 FHF 16-45                                                                    |                                                                                     | 16 mm                                                                               | 32 | 78  | 78                                                                                                                                                                        | 25 |                                                                                       |
|                                                                                          | IPT 15 FHB 19-45                                                                    |                                                                                     | IPT 15 FHF 19-45                                                                    |                                                                                     | 19 mm                                                                               | 32 | 78  | 78                                                                                                                                                                        | 28 |                                                                                       |

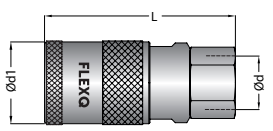
|  Size |  |  |  |  |  | Ød | Ød1   |  L  | L1 | Clampless hose tail socket 45° |    |                                                                                       |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------|----|---------------------------------------------------------------------------------------|
| 6                                                                                        | IPT 06 FPB 06-45                                                                    |                                                                                     |                                                                                     | IPT 06 FPF 06-45                                                                    |                                                                                     |    | 6 mm  | 17                                                                                                                                                                        | 45 | 45                             | 19 |  |
|                                                                                          | IPT 06 FPB 10-45                                                                    |                                                                                     |                                                                                     | IPT 06 FPF 10-45                                                                    |                                                                                     |    | 10 mm | 17                                                                                                                                                                        | 45 | 45                             | 24 |                                                                                       |
|                                                                                          | IPT 06 FPB 13-45                                                                    |                                                                                     |                                                                                     | IPT 06 FPF 13-45                                                                    |                                                                                     |    | 13 mm | 17                                                                                                                                                                        | 45 | 45                             | 28 |                                                                                       |
| 9                                                                                        | IPT 09 FPB 10-45                                                                    |                                                                                     |                                                                                     | IPT 09 FPF 10-45                                                                    |                                                                                     |    | 10 mm | 23                                                                                                                                                                        | 58 | 58                             | 24 |                                                                                       |
|                                                                                          | IPT 09 FPB 13-45                                                                    |                                                                                     |                                                                                     | IPT 09 FPF 13-45                                                                    |                                                                                     |    | 13 mm | 23                                                                                                                                                                        | 60 | 58                             | 28 |                                                                                       |
| 15                                                                                       | IPT 15 FPB 16-45                                                                    |                                                                                     |                                                                                     | IPT 15 FPF 16-45                                                                    |                                                                                     |    | 16 mm | 32                                                                                                                                                                        | 78 | 78                             | 38 |                                                                                       |
|                                                                                          | IPT 15 FPB 19-45                                                                    |                                                                                     |                                                                                     | IPT 15 FPF 19-45                                                                    |                                                                                     |    | 19 mm | 32                                                                                                                                                                        | 78 | 78                             | 38 |                                                                                       |

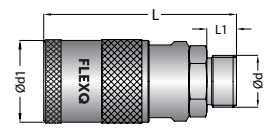
| Size |  |  | Ød    | Ød1 | L  | L1 | Clampless hose tail socket 90°                                                        |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-----|----|----|---------------------------------------------------------------------------------------|
| 6    | IPT 06 FPF 06-90X26                                                                 |                                                                                     | 6 mm  | 17  | 26 | 19 |  |
|      | IPT 06 FPF 10-90X26                                                                 |                                                                                     | 10 mm | 17  | 26 | 24 |                                                                                       |
| 9    | IPT 09 FPF 10-90X36                                                                 |                                                                                     | 10 mm | 23  | 36 | 24 |                                                                                       |
|      | IPT 09 FPF 13-90X36                                                                 |                                                                                     | 13 mm | 23  | 36 | 28 |                                                                                       |

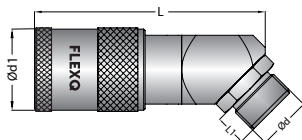
Short version  
Kurze Version

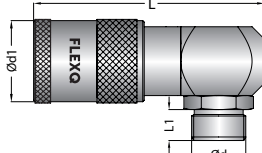
| Standard hose tail socket 90°                                                     |    |  Size |    |   | Ød    | Ød1 |  L  | L1 |    |
|-----------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|  | 6  | IPT 06 FHB 06-90                                                                       | IPT 06 FHF 06-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 6 mm  | 17  | 45                                                                                                                                                                        | 45 | 23 |
|                                                                                   |    | IPT 06 FHB 09-90                                                                       | IPT 06 FHF 09-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 9 mm  | 17  | 45                                                                                                                                                                        | 45 | 23 |
|                                                                                   |    | IPT 06 FHB 13-90                                                                       | IPT 06 FHF 13-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 13 mm | 17  | 45                                                                                                                                                                        | 45 | 25 |
|                                                                                   | 9  | IPT 09 FHB 09-90                                                                       | IPT 09 FHF 09-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 9 mm  | 23  | 58                                                                                                                                                                        | 58 | 23 |
|                                                                                   |    | IPT 09 FHB 13-90                                                                       | IPT 09 FHF 13-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 13 mm | 23  | 58                                                                                                                                                                        | 58 | 25 |
|                                                                                   | 15 | IPT 15 FHB 16-90                                                                       | IPT 15 FHF 16-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 16 mm | 32  | 81                                                                                                                                                                        | 81 | 28 |
| IPT 15 FHB 19-90                                                                  |    | IPT 15 FHF 19-90                                                                       |                                                                                                                                                                                                                                                       | 19 mm                                                                                                                                                                  | 32    | 81  | 81                                                                                                                                                                        | 28 |    |

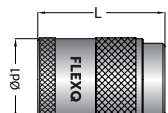
| Clampless hose tail socket 90°                                                     |    |  Size |    |   | Ød    | Ød1 |  L  | L1 |    |
|------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|  | 6  | IPT 06 FPB 06-90                                                                       | IPT 06 FPF 06-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 6 mm  | 17  | 45                                                                                                                                                                        | 45 | 19 |
|                                                                                    |    | IPT 06 FPB 10-90                                                                       | IPT 06 FPF 10-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 10 mm | 17  | 45                                                                                                                                                                        | 45 | 24 |
|                                                                                    |    | IPT 06 FPB 13-90                                                                       | IPT 06 FPF 13-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 13 mm | 17  | 45                                                                                                                                                                        | 45 | 28 |
|                                                                                    | 9  | IPT 09 FPB 10-90                                                                       | IPT 09 FPF 10-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 10 mm | 23  | 58                                                                                                                                                                        | 58 | 24 |
|                                                                                    |    | IPT 09 FPB 13-90                                                                       | IPT 09 FPF 13-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 13 mm | 23  | 58                                                                                                                                                                        | 58 | 28 |
|                                                                                    | 15 | IPT 15 FPB 16-90                                                                       | IPT 15 FPF 16-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 16 mm | 32  | 81                                                                                                                                                                        | 81 | 38 |
|                                                                                    |    | IPT 15 FPB 19-90                                                                       | IPT 15 FPF 19-90                                                                                                                                                                                                                                      |                                                                                                                                                                        | 19 mm | 32  | 81                                                                                                                                                                        | 81 | 38 |

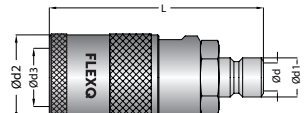
| Cylindrical female thread socket                                                    |    |  Size |    |   | Ød      | Ød1 | L  | HEX |
|-------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|----|-----|
|  | 6  | IPT 06 FFB 18                                                                            | IPT 06 FFF 18                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 1/8 | 17  | 41 | 14  |
|                                                                                     |    | IPT 06 FFB 14                                                                            | IPT 06 FFF 14                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 1/4 | 17  | 43 | 16  |
|                                                                                     |    | IPT 06 FFB 38                                                                            | IPT 06 FFF 38                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 3/8 | 17  | 43 | 19  |
|                                                                                     | 9  | IPT 09 FFB 14                                                                            | IPT 09 FFF 14                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 1/4 | 23  | 52 | 17  |
|                                                                                     |    | IPT 09 FFB 38                                                                            | IPT 09 FFF 38                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 3/8 | 23  | 52 | 19  |
|                                                                                     |    | IPT 09 FFB 12                                                                            | IPT 09 FFF 12                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 1/2 | 23  | 57 | 24  |
|                                                                                     | 15 | IPT 15 FFB 12                                                                            | IPT 15 FFF 12                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 1/2 | 32  | 70 | 27  |
|                                                                                     |    | IPT 15 FFB 34                                                                            | IPT 15 FFF 34                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 3/4 | 32  | 75 | 30  |

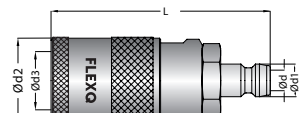
| Cylindrical male thread socket                                                      |    |  Size |    |   | Ød      | Ød1 | L  | L1 | HEX |
|-------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|----|----|-----|
|  | 6  | IPT 06 FMB 14                                                                            | IPT 06 FMF 14                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 1/4 | 17  | 46 | 11 | 14  |
|                                                                                     |    | IPT 06 FMB 38                                                                            | IPT 06 FMF 38                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 3/8 | 17  | 46 | 11 | 17  |
|                                                                                     |    | IPT 06 FMB 1415                                                                          | IPT 06 FMF 1415                                                                                                                                                                                                                                             |                                                                                                                                                                            | M14x1.5 | 17  | 46 | 11 | 15  |
|                                                                                     |    | IPT 06 FMB 1615                                                                          | IPT 06 FMF 1615                                                                                                                                                                                                                                             |                                                                                                                                                                            | M16x1.5 | 17  | 46 | 11 | 17  |
|                                                                                     | 9  | IPT 09 FMB 14                                                                            | IPT 09 FMF 14                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 1/4 | 23  | 56 | 11 | 17  |
|                                                                                     |    | IPT 09 FMB 38                                                                            | IPT 09 FMF 38                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 3/8 | 23  | 56 | 11 | 17  |
|                                                                                     |    | IPT 09 FMB 12                                                                            | IPT 09 FMF 12                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 1/2 | 23  | 58 | 12 | 21  |
|                                                                                     |    | IPT 09 FMB 1615                                                                          | IPT 09 FMF 1615                                                                                                                                                                                                                                             |                                                                                                                                                                            | M16x1.5 | 23  | 56 | 11 | 17  |
|                                                                                     | 15 | IPT 15 FMB 12                                                                            | IPT 15 FMF 12                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 1/2 | 32  | 78 | 12 | 22  |
|                                                                                     |    | IPT 15 FMB 34                                                                            | IPT 15 FMF 34                                                                                                                                                                                                                                               |                                                                                                                                                                            | BSP 3/4 | 32  | 82 | 16 | 30  |
|                                                                                     |    | IPT 15 FMB 2415                                                                          | IPT 15 FMF 2415                                                                                                                                                                                                                                             |                                                                                                                                                                            | M24x1.5 | 32  | 82 | 16 | 27  |

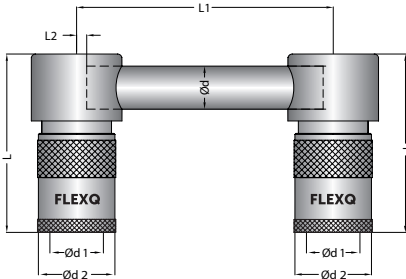
|  Size |  |  |  |  |  |  | Ød | Ød1 | L  | L1                                                                                  | HEX | Cylindrical male thread socket 45° |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----|----|-------------------------------------------------------------------------------------|-----|------------------------------------|
| 6                                                                                      | IPT 06 FMB 14-45                                                                  |                                                                                   | IPT 06 FMF 14-45                                                                  |                                                                                   | BSP 1/4                                                                           | 17                                                                                | 45 | 11  | 14 |  |     |                                    |
|                                                                                        | IPT 06 FMB 38-45                                                                  |                                                                                   | IPT 06 FMF 38-45                                                                  |                                                                                   | BSP 3/8                                                                           | 17                                                                                | 45 | 11  | 17 |                                                                                     |     |                                    |
|                                                                                        | IPT 06 FMB 1415-45                                                                |                                                                                   | IPT 06 FMF 1415-45                                                                |                                                                                   | M14x1.5                                                                           | 17                                                                                | 45 | 11  | 15 |                                                                                     |     |                                    |
|                                                                                        | IPT 06 FMB 1615-45                                                                |                                                                                   | IPT 06 FMF 1615-45                                                                |                                                                                   | M16x1.5                                                                           | 17                                                                                | 45 | 11  | 17 |                                                                                     |     |                                    |
| 9                                                                                      | IPT 09 FMB 38-45                                                                  |                                                                                   | IPT 09 FMF 38-45                                                                  |                                                                                   | BSP 3/8                                                                           | 23                                                                                | 58 | 11  | 17 |                                                                                     |     |                                    |
|                                                                                        | IPT 09 FMB 1615-45                                                                |                                                                                   | IPT 09 FMF 1615-45                                                                |                                                                                   | M16x1.5                                                                           | 23                                                                                | 58 | 11  | 17 |                                                                                     |     |                                    |
| 15                                                                                     | IPT 15 FMB 12-45                                                                  |                                                                                   | IPT 15 FMF 12-45                                                                  |                                                                                   | BSP 1/2                                                                           | 32                                                                                | 76 | 12  | 22 |                                                                                     |     |                                    |
|                                                                                        | IPT 15 FMB 2415-45                                                                |                                                                                   | IPT 15 FMF 2415-45                                                                |                                                                                   | M24x1.5                                                                           | 32                                                                                | 76 | 16  | 30 |                                                                                     |     |                                    |

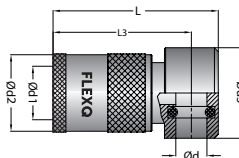
|  Size |  |  |  |  |  |  | Ød | Ød1 | L       | L1 | HEX | Cylindrical male thread socket 90° |    |                                                                                      |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----|---------|----|-----|------------------------------------|----|--------------------------------------------------------------------------------------|
| 6                                                                                      | IPT 06 FMB 14-90                                                                  |                                                                                   |                                                                                   |                                                                                   | IPT 06 FMF 14-90                                                                  |                                                                                   |    |     | BSP 1/4 | 17 | 45  | 11                                 | 14 |  |
|                                                                                        | IPT 06 FMB 38-90                                                                  |                                                                                   |                                                                                   |                                                                                   | IPT 06 FMF 38-90                                                                  |                                                                                   |    |     | BSP 3/8 | 17 | 45  | 11                                 | 17 |                                                                                      |
|                                                                                        | IPT 06 FMB 1415-90                                                                |                                                                                   |                                                                                   |                                                                                   | IPT 06 FMF 1415-90                                                                |                                                                                   |    |     | M14x1.5 | 17 | 45  | 11                                 | 15 |                                                                                      |
|                                                                                        | IPT 06 FMB 1615-90                                                                |                                                                                   |                                                                                   |                                                                                   | IPT 06 FMF 1615-90                                                                |                                                                                   |    |     | M16x1.5 | 17 | 45  | 11                                 | 17 |                                                                                      |
| 9                                                                                      | IPT 09 FMB 38-90                                                                  |                                                                                   |                                                                                   |                                                                                   | IPT 09 FMF 38-90                                                                  |                                                                                   |    |     | BSP 3/8 | 23 | 58  | 11                                 | 17 |                                                                                      |
|                                                                                        | IPT 09 FMB 1615-90                                                                |                                                                                   |                                                                                   |                                                                                   | IPT 09 FMF 1615-90                                                                |                                                                                   |    |     | M16x1.5 | 23 | 58  | 11                                 | 17 |                                                                                      |
| 15                                                                                     | IPT 15 FMB 12-90                                                                  |                                                                                   |                                                                                   |                                                                                   | IPT 15 FMF 12-90                                                                  |                                                                                   |    |     | BSP 1/2 | 32 | 81  | 12                                 | 32 |                                                                                      |
|                                                                                        | IPT 15 FMB 2415-90                                                                |                                                                                   |                                                                                   |                                                                                   | IPT 15 FMF 2415-90                                                                |                                                                                   |    |     | M24x1.5 | 32 | 81  | 16                                 | 30 |                                                                                      |

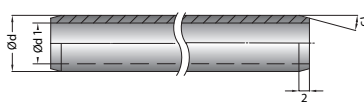
| Size |           | Ød1 | L  | Blind Socket                                                                          |
|------|-----------|-----|----|---------------------------------------------------------------------------------------|
| 6    | IPT 06 FB | 17  | 27 |  |
| 9    | IPT 09 FB | 23  | 36 |                                                                                       |
| 15   | IPT 15 FB | 32  | 44 |                                                                                       |

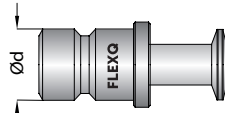
| Size |  |  |  |  | Ød | Ød1  | Ød2 | Ød3  | L  | max. flow | Adapting socket with the plug                                                         |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|------|-----|------|----|-----------|---------------------------------------------------------------------------------------|
| 6    | IPT 06 FXB IPT 06                                                                   |                                                                                     |                                                                                     |                                                                                     | 6  | 9.5  | 17  | 9.5  | 41 | 6         |  |
| 6    | IPT 06 FXB IPT 09                                                                   |                                                                                     |                                                                                     |                                                                                     | 9  | 13.5 | 23  | 9.5  | 48 | 6         |                                                                                       |
| 9    | IPT 09 FXB IPT 06                                                                   |                                                                                     |                                                                                     |                                                                                     | 6  | 9.5  | 17  | 13.5 | 51 | 6         |                                                                                       |
| 9    | IPT 09 FXB IPT 09                                                                   |                                                                                     |                                                                                     |                                                                                     | 9  | 13.5 | 23  | 13.5 | 53 | 9         |                                                                                       |

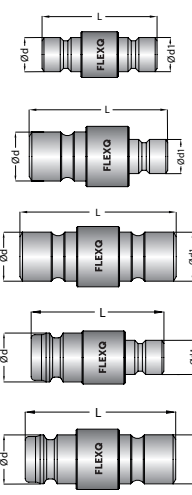
| Size |  |  |  |  | Ød | Ød1 | Ød2 | Ød3  | L  | max. flow | Adapting socket with the plug                                                         |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-----|-----|------|----|-----------|---------------------------------------------------------------------------------------|
| 6    | IPT 06 FXB HPT 06                                                                   |                                                                                     |                                                                                     |                                                                                     | 6  | 9   | 17  | 9.5  | 40 | 6         |  |
| 6    | IPT 06 FXB HPT 09                                                                   |                                                                                     |                                                                                     |                                                                                     | 9  | 13  | 23  | 9.5  | 36 | 6         |                                                                                       |
| 9    | IPT 09 FXB HPT 06                                                                   |                                                                                     |                                                                                     |                                                                                     | 6  | 9   | 17  | 13.5 | 50 | 6         |                                                                                       |
| 9    | IPT 09 FXB HPT 09                                                                   |                                                                                     |                                                                                     |                                                                                     | 9  | 13  | 23  | 13.5 | 57 | 9         |                                                                                       |

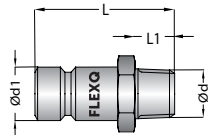
| Bridge                                                                            | Size |  | Ød   | Ød1  | Ød2 | L  | L1  | L2 |
|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|------|-----|----|-----|----|
|  | 6    | IPT 06 FCF 125                                                                    | 8x1  | 9.4  | 17  | 44 | 125 | 2  |
|                                                                                   |      | IPT 06 FCF 250                                                                    | 8x1  | 9.4  | 17  | 44 | 250 | 2  |
|                                                                                   |      | IPT 06 FCF 500                                                                    | 8x1  | 9.4  | 17  | 44 | 500 | 2  |
|                                                                                   | 9    | IPT 09 FCF 125                                                                    | 10x1 | 13.5 | 23  | 57 | 125 | 2  |
|                                                                                   |      | IPT 09 FCF 250                                                                    | 10x1 | 13.5 | 23  | 57 | 250 | 2  |
|                                                                                   |      | IPT 09 FCF 500                                                                    | 10x1 | 13.5 | 23  | 57 | 500 | 2  |
| Includes 2 sockets and pipe                                                       |      |                                                                                   |      |      |     |    |     |    |

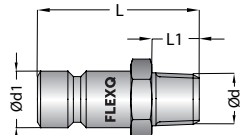
| Diverting sockets                                                                 | Size |  | Ød   | Ød1  | Ød2 | Ød3 | L  | L3 |
|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|------|-----|-----|----|----|
|  | 6    | IPT 06 FCF                                                                        | 8x1  | 9.4  | 17  | 20  | 44 | 37 |
|                                                                                   | 9    | IPT 09 FCF                                                                        | 10x1 | 13.5 | 23  | 26  | 57 | 49 |

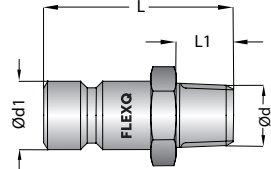
| Pipe                                                                                | Size | Brass Tube    | Ød | Ød1 | Length  |
|-------------------------------------------------------------------------------------|------|---------------|----|-----|---------|
|  | 6    | CBM 0810x1000 | 8  | 6   | 1000 mm |
|                                                                                     | 9    | CBM 1010x1000 | 10 | 8   | 1000 mm |

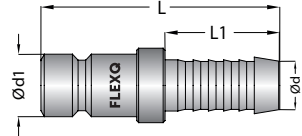
| Blind Plug                                                                          | Size | Order No  | Ød   |
|-------------------------------------------------------------------------------------|------|-----------|------|
|  | 6    | IPT 06 MB | 9.4  |
|                                                                                     | 9    | IPT 09 MB | 13.5 |
|                                                                                     | 15   | IPT 13 MB | 20   |

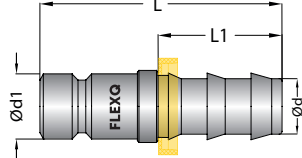
| Adapting Plug                                                                       | Size |  | Ød   | Ød1  | L  |
|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------|------|----|
|  | 6    | IPT 06 MXM IPT 06                                                                   | 9.4  | 9,4  | 32 |
|                                                                                     | 6    | IPT 06 MXM IPT 09                                                                   | 13,5 | 9,4  | 32 |
|                                                                                     | 9    | IPT 09 MXM IPT 09                                                                   | 13,5 | 13,5 | 33 |
|                                                                                     | 6    | IPT 06 MXM HPT 06                                                                   | 9,4  | 9,4  | 28 |
|                                                                                     | 9    | IPT 09 MXM HPT 09                                                                   | 13,5 | 13,5 | 33 |

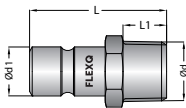
| Size |                 | Ød       | Ød1 | L  | L1 | HEX | Conical male thread plug                                                            |
|------|-----------------|----------|-----|----|----|-----|-------------------------------------------------------------------------------------|
| 6    | IPT 06 MRF 18   | BSPT 1/8 | 9.4 | 24 | 9  | 11  |  |
|      | IPT 06 MRF 14   | BSPT 1/4 | 9.4 | 27 | 12 | 14  |                                                                                     |
|      | IPT 06 MRF 38   | BSPT 3/8 | 9.4 | 27 | 12 | 17  |                                                                                     |
|      | IPT 06 MTF 18   | NPT 1/8  | 9.4 | 24 | 9  | 11  |                                                                                     |
|      | IPT 06 MTF 14   | NPT 1/4  | 9.4 | 28 | 13 | 14  |                                                                                     |
|      | IPT 06 MTF 38   | NPT 3/8  | 9.4 | 28 | 13 | 17  |                                                                                     |
|      | IPT 06 MMF 1010 | M10x1    | 9.4 | 24 | 9  | 11  |                                                                                     |
|      | IPT 06 MMF 1415 | M14x1.5  | 9.4 | 26 | 11 | 15  |                                                                                     |
|      | IPT 06 MMF 1615 | M16x1.5  | 9.4 | 26 | 11 | 17  |                                                                                     |

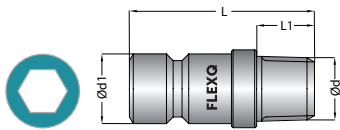
| Size |                 | Ød       | Ød1  | L  | L1 | HEX | Conical male thread plug                                                             |
|------|-----------------|----------|------|----|----|-----|--------------------------------------------------------------------------------------|
| 9    | IPT 09 MRF 14   | BSPT 1/4 | 13.5 | 33 | 12 | 14  |  |
|      | IPT 09 MRF 38   | BSPT 3/8 | 13.5 | 33 | 12 | 17  |                                                                                      |
|      | IPT 09 MRF 12   | BSPT 1/2 | 13.5 | 38 | 17 | 22  |                                                                                      |
|      | IPT 09 MTF 14   | NPT 1/4  | 13.5 | 33 | 13 | 14  |                                                                                      |
|      | IPT 09 MTF 38   | NPT 3/8  | 13.5 | 33 | 13 | 17  |                                                                                      |
|      | IPT 09 MTF 12   | NPT 1/2  | 13.5 | 38 | 17 | 22  |                                                                                      |
|      | IPT 09 MMF 1010 | M10x1    | 13.5 | 32 | 10 | 14  |                                                                                      |
|      | IPT 09 MMF 1415 | M14x1.5  | 13.5 | 32 | 11 | 15  |                                                                                      |
|      | IPT 09 MMF 1615 | M16x1.5  | 13.5 | 33 | 12 | 17  |                                                                                      |

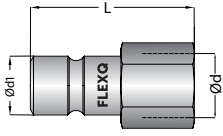
| Size |               | Ød       | Ød1 | L  | L1 | HEX | Conical male thread plug                                                              |
|------|---------------|----------|-----|----|----|-----|---------------------------------------------------------------------------------------|
| 15   | IPT 15 MRF 14 | BSPT 1/4 | 20  | 38 | 12 | 21  |  |
|      | IPT 15 MRF 38 | BSPT 3/8 | 20  | 38 | 12 | 21  |                                                                                       |
|      | IPT 15 MRF 12 | BSPT 1/2 | 20  | 42 | 16 | 22  |                                                                                       |
|      | IPT 15 MRF 34 | BSPT 3/4 | 20  | 43 | 18 | 27  |                                                                                       |
|      | IPT 15 MTF 38 | NPT 3/8  | 20  | 39 | 13 | 22  |                                                                                       |
|      | IPT 15 MTF 12 | NPT 1/2  | 20  | 42 | 16 | 22  |                                                                                       |
|      | IPT 15 MTF 34 | NPT 3/4  | 20  | 43 | 18 | 27  |                                                                                       |

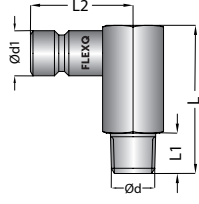
| Size |               | Ød    | Ød1  | L  | L1 | Standard hose plug /                                                                  |
|------|---------------|-------|------|----|----|---------------------------------------------------------------------------------------|
| 6    | IPT 06 MHF 06 | 6 mm  | 9.4  | 37 | 23 |  |
|      | IPT 06 MHF 09 | 9 mm  | 9.4  | 37 | 23 |                                                                                       |
| 9    | IPT 09 MHF 09 | 9 mm  | 13.5 | 45 | 26 |                                                                                       |
|      | IPT 09 MHF 13 | 13 mm | 13.5 | 45 | 26 |                                                                                       |
| 15   | IPT 15 MHF 16 | 16 mm | 20   | 50 | 28 |                                                                                       |
|      | IPT 15 MHF 19 | 19 mm | 20   | 55 | 28 |                                                                                       |

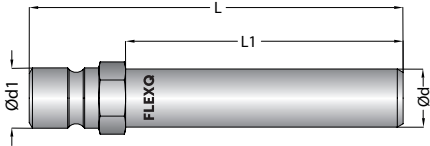
| Size |               | Ød    | Ød1  | L  | L1 |                                                                                       |
|------|---------------|-------|------|----|----|---------------------------------------------------------------------------------------|
| 6    | IPT 06 MPF 06 | 6 mm  | 9.4  | 38 | 24 |  |
|      | IPT 06 MPF 10 | 10 mm | 9.4  | 38 | 24 |                                                                                       |
| 9    | IPT 09 MPF 10 | 10 mm | 13.5 | 45 | 24 |                                                                                       |
|      | IPT 09 MPF 13 | 13 mm | 13.5 | 48 | 28 |                                                                                       |
| 15   | IPT 15 MPF 16 | 16 mm | 20   | 65 | 38 |                                                                                       |
|      | IPT 15 MPF 19 | 19 mm | 20   | 67 | 38 |                                                                                       |

| Conical male thread plug with valve                                               | Size |                 | Ød       | Ød1  | L  | L1 | HEX |
|-----------------------------------------------------------------------------------|------|-----------------|----------|------|----|----|-----|
|  | 6    | IPT 06 MRB 14   | BSPT 1/4 | 9.4  | 29 | 12 | 14  |
|                                                                                   |      | IPT 06 MRB 38   | BSPT 3/8 | 9.4  | 29 | 12 | 17  |
|                                                                                   |      | IPT 06 MTB 14   | NPT 1/4  | 9.4  | 29 | 12 | 14  |
|                                                                                   |      | IPT 06 MTB 38   | NPT 3/8  | 9.4  | 29 | 12 | 17  |
|                                                                                   |      | IPT 06 MKB 1415 | M14x1.5  | 9.4  | 29 | 12 | 14  |
|                                                                                   | 9    | IPT 09 MRB 14   | BSPT 1/4 | 13.5 | 32 | 12 | 14  |
|                                                                                   |      | IPT 09 MRB 38   | BSPT 3/8 | 13.5 | 32 | 12 | 17  |
|                                                                                   |      | IPT 09 MRB 12   | BSPT 1/2 | 13.5 | 37 | 16 | 22  |
|                                                                                   |      | IPT 09 MTB 14   | NPT 1/4  | 13.5 | 32 | 12 | 14  |
|                                                                                   |      | IPT 09 MTB 38   | NPT 3/8  | 13.5 | 32 | 12 | 17  |
|                                                                                   |      | IPT 09 MTB 12   | NPT 1/2  | 13.5 | 37 | 16 | 22  |
|                                                                                   |      | IPT 09 MKB 1415 | M14x1.5  | 13.5 | 32 | 12 | 15  |
|                                                                                   |      | IPT 09 MKB 1615 | M16x1.5  | 13.5 | 32 | 12 | 17  |
|                                                                                   | 15   | IPT 15 MRB 12   | BSPT 1/2 | 20   | 46 | 12 | 22  |
|                                                                                   |      | IPT 15 MRB 34   | BSPT 3/4 | 20   | 46 | 16 | 27  |
|                                                                                   |      | IPT 15 MTB 12   | NPT 1/2  | 20   | 46 | 12 | 22  |
|                                                                                   |      | IPT 15 MTB 34   | NPT 3/4  | 20   | 46 | 16 | 27  |

| Cylindrical male thread plug innerhex                                                            | Size |                  | Ød       | Ød1  | L  | L1 | HEX |
|--------------------------------------------------------------------------------------------------|------|------------------|----------|------|----|----|-----|
| <br>Inner HEX | 6    | IPT 06 MRFH 18   | BSPT 1/8 | 9.4  | 23 | 9  | 5   |
|                                                                                                  |      | IPT 06 MRFH 14   | BSPT 1/4 | 9.4  | 23 | 13 | 5   |
|                                                                                                  |      | IPT 06 MKFH 1010 | M10x1    | 9.4  | 23 | 9  | 5   |
|                                                                                                  |      | IPT 06 MKFH 1415 | M14x1.5  | 9.4  | 25 | 9  | 5   |
|                                                                                                  | 9    | IPT 09 MRFH 14   | BSPT 1/4 | 13.5 | 30 | 13 | 8   |
|                                                                                                  |      | IPT 09 MRFH 38   | BSPT 3/8 | 13.5 | 30 | 13 | 8   |
|                                                                                                  |      | IPT 09 MRFH 12   | BSPT 1/2 | 13.5 | 30 | 15 | 8   |
|                                                                                                  |      | IPT 09 MKFH 1415 | M14x1.5  | 13.5 | 31 | 9  | 8   |
|                                                                                                  |      | IPT 09 MKFH 1615 | M16x1.5  | 13.5 | 31 | 9  | 8   |

| Size |               | Ød      | Ød1  | L  | HEX | Plug with female thread                                                             |
|------|---------------|---------|------|----|-----|-------------------------------------------------------------------------------------|
| 6    | IPT 06 MFF 18 | BSP 1/8 | 9.4  | 25 | 13  |  |
|      | IPT 06 MFF 14 | BSP 1/4 | 9.4  | 32 | 16  |                                                                                     |
|      | IPT 06 MFF 38 | BSP 3/8 | 9.4  | 32 | 19  |                                                                                     |
| 9    | IPT 09 MFF 14 | BSP 1/4 | 13.5 | 27 | 16  |                                                                                     |
|      | IPT 09 MFF 38 | BSP 3/8 | 13.5 | 28 | 19  |                                                                                     |
|      | IPT 09 MFF 12 | BSP 1/2 | 13.5 | 30 | 24  |                                                                                     |

| Size |                    | Ød       | Ød1  | L  | L1 | L2 | HEX | Conical male thread plug 90°                                                         |
|------|--------------------|----------|------|----|----|----|-----|--------------------------------------------------------------------------------------|
| 6    | IPT 06 MRF 18-90   | BSPT 1/8 | 9.4  | 27 | 9  | 20 | 11  |  |
|      | IPT 06 MRF 14-90   | BSPT 1/4 | 9.4  | 34 | 11 | 22 | 15  |                                                                                      |
|      | IPT 06 MRF 38-90   | BSPT 3/8 | 9.4  | 34 | 11 | 22 | 17  |                                                                                      |
|      | IPT 06 MTF 18-90   | NPT 1/8  | 9.4  | 27 | 9  | 20 | 11  |                                                                                      |
|      | IPT 06 MTF 14-90   | NPT 1/4  | 9.4  | 34 | 11 | 22 | 15  |                                                                                      |
|      | IPT 06 MTF 38-90   | NPT 3/8  | 9.4  | 34 | 9  | 23 | 17  |                                                                                      |
|      | IPT 06 MKF 1010-90 | M10x1    | 9.4  | 27 | 11 | 20 | 11  |                                                                                      |
|      | IPT 06 MKF 1415-90 | M14x1.5  | 9.4  | 34 | 11 | 22 | 15  |                                                                                      |
| 9    | IPT 09 MRF 14-90   | BSPT 1/4 | 13.5 | 38 | 11 | 27 | 15  |                                                                                      |
|      | IPT 09 MRF 38-90   | BSPT 3/8 | 13.5 | 38 | 11 | 27 | 17  |                                                                                      |
|      | IPT 09 MTF 14-90   | NPT 1/4  | 13.5 | 38 | 11 | 27 | 15  |                                                                                      |
|      | IPT 09 MKF 1415-90 | M14x1.5  | 13.5 | 38 | 11 | 27 | 17  |                                                                                      |

| Size |                | Ød | Ød1  | L   | L1  | HEX | Extention plug without thread                                                         |
|------|----------------|----|------|-----|-----|-----|---------------------------------------------------------------------------------------|
| 6    | IPT 06 MEF 63  | 10 | 9.4  | 63  | 46  | 11  |  |
|      | IPT 06 MEF 100 | 10 | 9.4  | 100 | 83  | 11  |                                                                                       |
|      | IPT 06 MEF 120 | 10 | 9.4  | 120 | 103 | 11  |                                                                                       |
|      | IPT 06 MEF 240 | 10 | 9.4  | 240 | 223 | 11  |                                                                                       |
|      | IPT 06 MEF 360 | 10 | 9.4  | 360 | 343 | 11  |                                                                                       |
| 9    | IPT 09 MEF 150 | 14 | 13.5 | 150 | 127 | 15  |                                                                                       |
|      | IPT 09 MEF 300 | 14 | 13.5 | 300 | 127 | 15  |                                                                                       |
|      | IPT 09 MEF 450 | 14 | 13.5 | 450 | 127 | 15  |                                                                                       |

Male long thread plug

| Size |                      | Ød      | Ød1  | L   | L1   | HEX |
|------|----------------------|---------|------|-----|------|-----|
| 6    | IPT 06 MMFL 18x100   | BSP 1/8 | 9.4  | 100 | 6x10 | 11  |
|      | IPT 06 MMFL 14x100   | BSP 1/4 | 9.4  | 100 | 6x10 | 14  |
|      | IPT 06 MMFL 38x100   | BSP 3/8 | 9.4  | 100 | 6x10 | 17  |
|      | IPT 06 MMFL 1010x100 | M10x1   | 9.4  | 100 | 6x10 | 11  |
|      | IPT 06 MMFL 1415x100 | M14x1.5 | 9.4  | 100 | 6x10 | 14  |
| Size |                      | Ød      | Ød1  | L   | L1   | HEX |
| 9    | IPT 09 MMFL 14x100   | BSP 1/4 | 13.5 | 100 | 6x10 | 14  |
|      | IPT 09 MMFL 38x100   | BSP 3/8 | 13.5 | 100 | 6x10 | 17  |
|      | IPT 09 MMFL 1415x100 | M14x1.5 | 13.5 | 100 | 6x10 | 14  |
|      | IPT 09 MMFL 1615x100 | M16x1.5 | 13.5 | 100 | 6x10 | 17  |

Male thread extension plug

Size

Ød

Ød1

L

L1

L2

HEX

6

IPT 06 MRF 18xL

BSPT 1/8

9.4

\*

17

9

11

IPT 06 MRF 14xL

BSPT 1/4

9.4

\*

17

12

14

IPT 06 MTF 18xL

NPT 1/8

9.4

\*

19

9

11

IPT 06 MMF 1010xL

M10x1.0

9.4

\*

19

9

11

\* L : Length (mm): 60 / 80 / 100 / 120 / 150 / 200

9

IPT 09 MRF 14xL

BSPT 1/4

13.5

\*

24

12

14

IPT 09 MRF 38xL

BSPT 3/8

13.5

\*

24

12

17

IPT 09 MTF 14xL

NPT 1/4

13.5

\*

24

9

14

IPT 09 MTF 38xL

NPT 3/8

13.5

\*

24

9

17

IPT 09 MMF 1215xL

M12x1.5

13.5

\*

25

9

14

IPT 09 MMF 1415xL

M14x1.5

13.5

\*

24

9

15

\* L : Length (mm): 60 / 80 / 100 / 120 / 150 / 200

15

IPT 15 MRF 38xL

BSPT 3/8

20

\*

40

12

22

IPT 15 MRF 12xL

BSPT 1/2

20

\*

40

12

22

IPT 15 MTF 38xL

NPT 3/8

20

\*

40

12

22

IPT 15 MTF 12xL

NPT 1/2

20

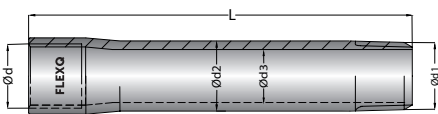
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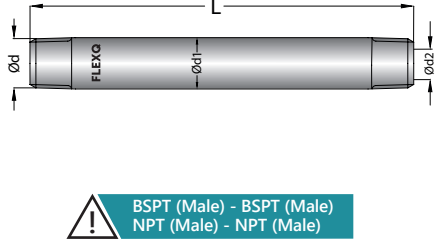
12

22

\* L : Length (mm): 60 / 80 / 100 / 120 / 150 / 200

| Steel extension tube with female male thread                                        |      | Size | BSP-BSPT         | NPT-NPT          | Ød  | Ød1 | Ød2 | Ød3 | L   | INNER HEX |
|-------------------------------------------------------------------------------------|------|------|------------------|------------------|-----|-----|-----|-----|-----|-----------|
|  | 1/8" |      | MFE 18/18-50 ST  | TNE 18/18-50 ST  | 1/8 | 1/8 | 10  | 6   | 50  | 5         |
|                                                                                     |      |      | MFE 18/18-75 ST  | TNE 18/18-75 ST  | 1/8 | 1/8 | 10  | 6   | 75  | 5         |
|                                                                                     |      |      | MFE 18/18-100 ST | TNE 18/18-100 ST | 1/8 | 1/8 | 10  | 6   | 100 | 5         |
|                                                                                     |      |      | MFE 18/18-125 ST | TNE 18/18-125 ST | 1/8 | 1/8 | 10  | 6   | 125 | 5         |
|                                                                                     | 1/4" |      | MFE 14/14-50 ST  | TNE 14/14-50 ST  | 1/4 | 1/4 | 14  | 9   | 50  | 8         |
|                                                                                     |      |      | MFE 14/14-75 ST  | TNE 14/14-75 ST  | 1/4 | 1/4 | 14  | 9   | 75  | 8         |
|                                                                                     |      |      | MFE 14/14-100 ST | TNE 14/14-100 ST | 1/4 | 1/4 | 14  | 9   | 100 | 8         |
|                                                                                     |      |      | MFE 14/14-125 ST | TNE 14/14-125 ST | 1/4 | 1/4 | 14  | 9   | 125 | 8         |
|                                                                                     |      |      | MFE 14/14-150 ST | TNE 14/14-150-ST | 1/4 | 1/4 | 14  | 9   | 150 | 8         |


 BSP (Female) - BSPT (Male)  
 NPT (Female) - NPT (Male)

| Size | BSPT-BSPT        | NPT-NPT          | Ød  | Ød1 | Ød2 | L   | Steel extension tube with male thread                                                |
|------|------------------|------------------|-----|-----|-----|-----|--------------------------------------------------------------------------------------|
| 1/8" | RRE 18/18-50 ST  | TTE 18/18-50 ST  | 1/8 | 10  | 6   | 50  |  |
|      | RRE 18/18-100 ST | TTE 18/18-100 ST | 1/8 | 10  | 6   | 100 |                                                                                      |
|      | RRE 18/18-150 ST | TTE 18/18-150 ST | 1/8 | 10  | 6   | 150 |                                                                                      |
|      | RRE 18/18-200 ST | TTE 18/18-200 ST | 1/8 | 10  | 6   | 200 |                                                                                      |
|      | RRE 18/18-250 ST | TTE 18/18-250 ST | 1/8 | 10  | 6   | 250 |                                                                                      |
| 1/4" | RRE 14/14-50 ST  | TTE 14/14-50 ST  | 1/4 | 14  | 9   | 50  |                                                                                      |
|      | RRE 14/14-100 ST | TTE 14/14-100 ST | 1/4 | 14  | 9   | 100 |                                                                                      |
|      | RRE 14/14-150 ST | TTE 14/14-150 ST | 1/4 | 14  | 9   | 150 |                                                                                      |
|      | RRE 14/14-200 ST | TTE 14/14-200 ST | 1/4 | 14  | 9   | 200 |                                                                                      |
|      | RRE 14/14-250 ST | TTE 14/14-250 ST | 1/4 | 14  | 9   | 250 |                                                                                      |
| 3/8" | RRE 38/38-50 ST  | TTE 38/38-50 ST  | 3/8 | 17  | 12  | 50  |                                                                                      |
|      | RRE 38/38-100 ST | TTE 38/38-100 ST | 3/8 | 17  | 12  | 100 |                                                                                      |
|      | RRE 38/38-150 ST | TTE 38/38-150 ST | 3/8 | 17  | 12  | 150 |                                                                                      |
|      | RRE 38/38-200 ST | TTE 38/38-200 ST | 3/8 | 17  | 12  | 200 |                                                                                      |
|      | RRE 38/38-250 ST | TTE 38/38-250 ST | 3/8 | 17  | 12  | 250 |                                                                                      |
| 1/2" | RRE 12/12-100 ST | TTE 12/12-100 ST | 1/2 | 22  | 16  | 100 |                                                                                      |
|      | RRE 12/12-150 ST | TTE 12/12-150 ST | 1/2 | 22  | 16  | 150 |                                                                                      |
|      | RRE 12/12-200 ST | TTE 12/12-200 ST | 1/2 | 22  | 16  | 200 |                                                                                      |
|      | RRE 12/12-250 ST | TTE 12/12-250 ST | 1/2 | 22  | 16  | 250 |                                                                                      |

| Size |              | Description     | Material      | Working Temp. | Replacement seal set                                                                  |
|------|--------------|-----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| 6    | SK IPT 06 MN | Plug Seal Set   | NBR - Nitrile | -15°C +100°C  |  |
| 9    | SK IPT 09 MN | Plug Seal Set   | NBR - Nitrile | -15°C +100°C  |                                                                                       |
| 15   | SK IPT 15 MN | Plug Seal Set   | NBR - Nitrile | -15°C +100°C  |                                                                                       |
| 6    | SK IPT 06 FN | Socket Seal Set | NBR - Nitrile | -15°C +100°C  |                                                                                       |
| 9    | SK IPT 09 FN | Socket Seal Set | NBR - Nitrile | -15°C +100°C  |                                                                                       |
| 15   | SK IPT 15 FN | Socket Seal Set | NBR - Nitrile | -15°C +100°C  |                                                                                       |
| 6    | SK IPT 06 MV | Plug Seal Set   | FPM - Viton   | -20°C +200°C  |                                                                                       |
| 9    | SK IPT 09 MV | Plug Seal Set   | FPM - Viton   | -20°C +200°C  |                                                                                       |
| 15   | SK IPT 15 MV | Plug Seal Set   | FPM - Viton   | -20°C +200°C  |                                                                                       |
| 6    | SK IPT 06 FV | Socket Seal Set | FPM - Viton   | -20°C +200°C  |                                                                                       |
| 9    | SK IPT 09 FV | Socket Seal Set | FPM - Viton   | -20°C +200°C  |                                                                                       |
| 15   | SK IPT 15 FV | Socket Seal Set | FPM - Viton   | -20°C +200°C  |                                                                                       |



# MPT

## High Flow French Standard Profile for Cooling



LINKING PRECISION WITH PERFORMANCE

## MPT, the french standard quick coupling system for low pressure applications and all media

### Characteristics

- High quality materials
- Compact and Ergonomic design
- Extensive range
- Available in 7 diameters
- Colour coding

### Clampless hose system

- Allows time-saving assembly without using hose clamps
- Space saving
- Reduces the risk of injury from sharp clamps
- Extensive application possibilities

### Interchangeable MPT

The MPT monocouplings are compatible with the MPT multicoupling. The coupling can be easily connected to the plug on the multicoupling.



# MPT

HIGH FLOW

### SERIE MPT

TEMPERATURE REGULATION

PROFILE HIGH FLOW

#### Options

- Colour coding
- Stainless Steel
- Safety locking

R / B  
VA  
S

#### Applications

- Cooling heating
- Injection moulding
- Die casting



#### Materials

|                           |                     |
|---------------------------|---------------------|
| Body Socket               | Brass               |
| Body Plug (6,9,12mm)      | Brass               |
| Body Plug (16,20,25,38mm) | Stainless steel     |
| Sleeve                    | AISI 420 chrome pl. |
| Valve                     | Brass               |
| Locking Ring              | Stainless steel     |
| Spring                    | Stainless steel     |
| Balls                     | Stainless steel     |
| Seals                     | Viton (V)           |



#### Temperature range

|                   |   |                                                        |
|-------------------|---|--------------------------------------------------------|
| Nitril (NBR)      | N | - 15 °C + 100 °C                                       |
| Fluorcarbon (FPM) | V | - 20 °C + 160 °C Water<br>- 20 °C + 200 °C Heating oil |

Always make sure no medium flows before disconnecting



MPT 06 MPT 09 MPT 12 MPT 16 MPT 20 MPT 25 MPT 38



Flow Size

6 9 12 16 20 25 38



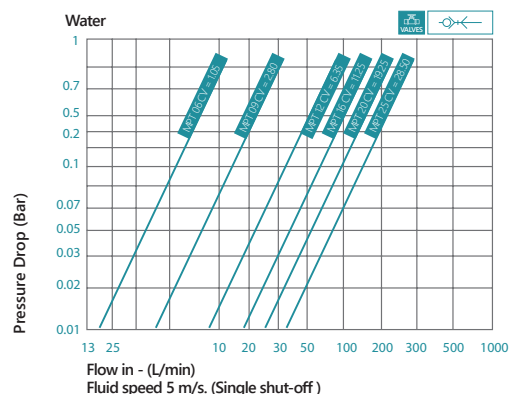
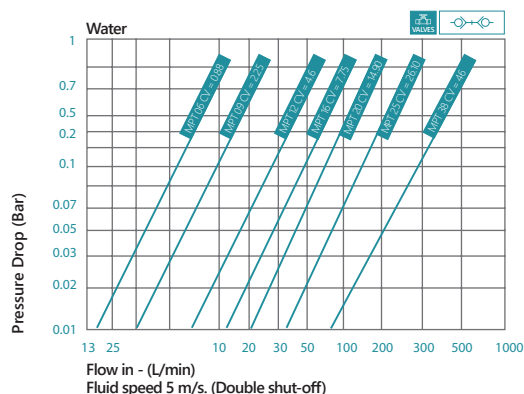
Pressure

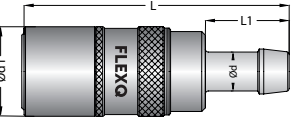
16 16 16 16 16 16 16

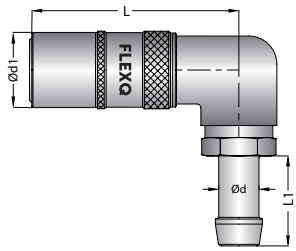


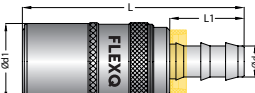
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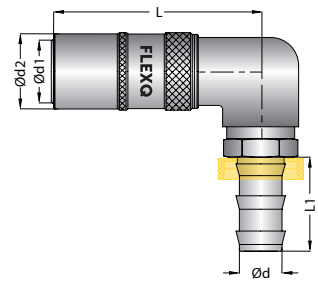
#### Series MPT - Flow Rate vs Pressure Drop Graph

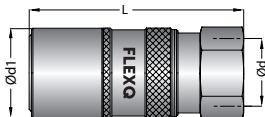


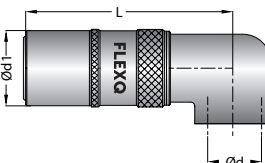
|  Size |  |  |  |  |  | Ød | Ød1   | L    | L1   | Standard hose tail socket |                                                                                     |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-------|------|------|---------------------------|-------------------------------------------------------------------------------------|
| 6                                                                                      | MPT 06 FHB 06                                                                     |                                                                                   |                                                                                   | MPT 06 FHF 06                                                                     |                                                                                   |    | 6 mm  | 19   | 60   | 23                        |  |
|                                                                                        | MPT 06 FHB 08                                                                     |                                                                                   |                                                                                   | MPT 06 FHF 08                                                                     |                                                                                   |    | 8 mm  | 19   | 60   | 23                        |                                                                                     |
| 9                                                                                      | MPT 09 FHB 10                                                                     |                                                                                   |                                                                                   | MPT 09 FHF 10                                                                     |                                                                                   |    | 10 mm | 24.5 | 69   | 27.5                      |                                                                                     |
|                                                                                        | MPT 09 FHB 12                                                                     |                                                                                   |                                                                                   | MPT 09 FHF 12                                                                     |                                                                                   |    | 12 mm | 24.5 | 69   | 27.5                      |                                                                                     |
| 12                                                                                     | MPT 12 FHB 12                                                                     |                                                                                   |                                                                                   | MPT 12 FHF 12                                                                     |                                                                                   |    | 12 mm | 30   | 81.5 | 27.5                      |                                                                                     |
|                                                                                        | MPT 12 FHB 16                                                                     |                                                                                   |                                                                                   | MPT 12 FHF 16                                                                     |                                                                                   |    | 16 mm | 30   | 87   | 33                        |                                                                                     |
| 16                                                                                     | MPT 16 FHB 16                                                                     |                                                                                   |                                                                                   | MPT 16 FHF 16                                                                     |                                                                                   |    | 16 mm | 37.5 | 108  | 33                        |                                                                                     |
|                                                                                        | MPT 16 FHB 19                                                                     |                                                                                   |                                                                                   | MPT 16 FHF 19                                                                     |                                                                                   |    | 19 mm | 37.5 | 108  | 33                        |                                                                                     |

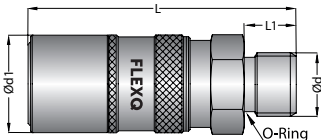
|  Size |  |  |  |  |  |  | Ød  | Ød1  | L                                                                                    | L1 | Standard hose tail socket 90°<br>^^ |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|------|--------------------------------------------------------------------------------------|----|-------------------------------------|
| 6                                                                                      | MPT 06 FHB 08-90                                                                  |                                                                                   | MPT 06 FHF 08-90                                                                  |                                                                                   | 8 mm                                                                              | 19                                                                                | 60  | 23   |  |    |                                     |
| 9                                                                                      | MPT 09 FHB 10-90                                                                  |                                                                                   | MPT 09 FHF 10-90                                                                  |                                                                                   | 10 mm                                                                             | 24.5                                                                              | 69  | 27.5 |                                                                                      |    |                                     |
|                                                                                        | MPT 09 FHB 12-90                                                                  |                                                                                   | MPT 09 FHF 12-90                                                                  |                                                                                   | 12 mm                                                                             | 24.5                                                                              | 69  | 27.5 |                                                                                      |    |                                     |
| 12                                                                                     | MPT 12 FHB 12-90                                                                  |                                                                                   | MPT 12 FHF 12-90                                                                  |                                                                                   | 12 mm                                                                             | 30                                                                                | 84  | 27.5 |                                                                                      |    |                                     |
|                                                                                        | MPT 12 FHB 16-90                                                                  |                                                                                   | MPT 12 FHF 16-90                                                                  |                                                                                   | 16 mm                                                                             | 30                                                                                | 84  | 33   |                                                                                      |    |                                     |
| 16                                                                                     | MPT 16 FHB 19-90                                                                  |                                                                                   | MPT 16 FHF 19-90                                                                  |                                                                                   | 19 mm                                                                             | 37.5                                                                              | 114 | 33   |                                                                                      |    |                                     |

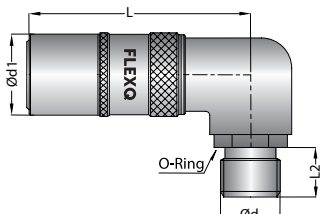
|  Size |  |  |  |  |  | Ød | Ød1   | L    | L1   | Push to connect hose tail socket |                                                                                       |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-------|------|------|----------------------------------|---------------------------------------------------------------------------------------|
| 6                                                                                        | MPT 06 FPB 10                                                                       |                                                                                     |                                                                                     | MPT 06 FPF 10                                                                       |                                                                                     |    | 10 mm | 19   | 61   | 24                               |  |
| 9                                                                                        | MPT 09 FPB 10                                                                       |                                                                                     |                                                                                     | MPT 09 FPF 10                                                                       |                                                                                     |    | 10 mm | 24.5 | 66   | 24                               |                                                                                       |
|                                                                                          | MPT 09 FPB 13                                                                       |                                                                                     |                                                                                     | MPT 09 FPF 13                                                                       |                                                                                     |    | 13 mm | 24.5 | 81.5 | 28                               |                                                                                       |
| 12                                                                                       | MPT 12 FPB 13                                                                       |                                                                                     |                                                                                     | MPT 12 FPF 13                                                                       |                                                                                     |    | 13 mm | 30   | 81.5 | 28                               |                                                                                       |
|                                                                                          | MPT 12 FPB 16                                                                       |                                                                                     |                                                                                     | MPT 12 FPF 16                                                                       |                                                                                     |    | 16 mm | 30   | 91.5 | 38                               |                                                                                       |
| 16                                                                                       | MPT 16 FPB 19                                                                       |                                                                                     |                                                                                     | MPT 16 FPF 19                                                                       |                                                                                     |    | 19 mm | 37.5 | 113  | 38                               |                                                                                       |

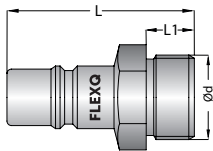
| Size |  |  |  |  |  | Ød | Ød1   | L    | L1  | Push to connect hose tail socket 90° |                                                                                       |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-------|------|-----|--------------------------------------|---------------------------------------------------------------------------------------|
| 6    | MPT 06 FPB 10-90                                                                    |                                                                                     |                                                                                     | MPT 06 FPF 10-90                                                                    |                                                                                     |    | 10 mm | 19   | 60  | 24                                   |  |
| 9    | MPT 09 FPB 10-90                                                                    |                                                                                     |                                                                                     | MPT 09 FPF 10-90                                                                    |                                                                                     |    | 10 mm | 24.5 | 69  | 24                                   |                                                                                       |
|      | MPT 09 FPB 13-90                                                                    |                                                                                     |                                                                                     | MPT 09 FPF 13-90                                                                    |                                                                                     |    | 13 mm | 24.5 | 69  | 28                                   |                                                                                       |
| 12   | MPT 12 FPB 13-90                                                                    |                                                                                     |                                                                                     | MPT 12 FPF 13-90                                                                    |                                                                                     |    | 13 mm | 30   | 84  | 28                                   |                                                                                       |
|      | MPT 12 FPB 16-90                                                                    |                                                                                     |                                                                                     | MPT 12 FPF 16-90                                                                    |                                                                                     |    | 16 mm | 30   | 94  | 38                                   |                                                                                       |
| 16   | MPT 16 FPB 19-90                                                                    |                                                                                     |                                                                                     | MPT 16 FPF 19-90                                                                    |                                                                                     |    | 19 mm | 37.5 | 114 | 38                                   |                                                                                       |

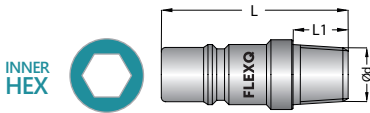
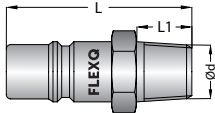
| Female thread socket                                                              | Size |    |   | Ød      | Ød1  | L    | L1   |
|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|------|
|  | 6    | MPT 06 FFB 14                                                                                                                                                                                                                                         | MPT 06 FFF 14                                                                                                                                                          | BSP 1/4 | 19   | 46   | 17   |
|                                                                                   |      | MPT 06 FNB 14                                                                                                                                                                                                                                         | MPT 06 FNF 14                                                                                                                                                          | NPT 1/4 | 19   | 46   | 17   |
|                                                                                   | 9    | MPT 09 FFB 38                                                                                                                                                                                                                                         | MPT 09 FFF 38                                                                                                                                                          | BSP 3/8 | 24.5 | 53   | 22   |
|                                                                                   |      | MPT 09 FNB 38                                                                                                                                                                                                                                         | MPT 09 FNF 38                                                                                                                                                          | NPT 3/8 | 24.5 | 53   | 22   |
|                                                                                   | 12   | MPT 12 FFB 12                                                                                                                                                                                                                                         | MPT 12 FFF 12                                                                                                                                                          | BSP 1/2 | 30   | 81.5 | 27.5 |
|                                                                                   |      | MPT 12 FNB 12                                                                                                                                                                                                                                         | MPT 12 FNF 12                                                                                                                                                          | NPT 1/2 | 30   | 87   | 33   |
|                                                                                   | 16   | MPT 16 FFB 34                                                                                                                                                                                                                                         | MPT 16 FFF 34                                                                                                                                                          | BSP 3/4 | 37.5 | 90   | 35   |
|                                                                                   |      | MPT 16 FNB 34                                                                                                                                                                                                                                         | MPT 16 FNF 34                                                                                                                                                          | NPT 3/4 | 37.5 | 90   | 35   |

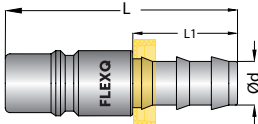
| Female thread socket 90°                                                            | Size |    |   | Ød      | Ød1  | L    | L1   |
|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|------|
|  | 6    | MPT 06 FFB 14-90                                                                                                                                                                                                                                      | MPT 06 FFF 14-90                                                                                                                                                       | BSP 1/4 | 19   | 46   | 17   |
|                                                                                     |      | MPT 06 FNB 14-90                                                                                                                                                                                                                                      | MPT 06 FNF 14-90                                                                                                                                                       | NPT 1/4 | 19   | 46   | 17   |
|                                                                                     | 9    | MPT 09 FFB 38-90                                                                                                                                                                                                                                      | MPT 09 FFF 38-90                                                                                                                                                       | BSP 3/8 | 24.5 | 53   | 22   |
|                                                                                     |      | MPT 09 FNB 38-90                                                                                                                                                                                                                                      | MPT 09 FNF 38-90                                                                                                                                                       | NPT 3/8 | 24.5 | 53   | 22   |
|                                                                                     | 12   | MPT 12 FFB 12-90                                                                                                                                                                                                                                      | MPT 12 FFF 12-90                                                                                                                                                       | BSP 1/2 | 30   | 81.5 | 27.5 |
|                                                                                     |      | MPT 12 FNB 12-90                                                                                                                                                                                                                                      | MPT 12 FNF 12-90                                                                                                                                                       | NPT 1/2 | 30   | 87   | 33   |
|                                                                                     | 16   | MPT 16 FFB 34-90                                                                                                                                                                                                                                      | MPT 16 FFF 34-90                                                                                                                                                       | BSP 3/4 | 37.5 | 90   | 35   |
|                                                                                     |      | MPT 16 FNB 34-90                                                                                                                                                                                                                                      | MPT 16 FNF 34-90                                                                                                                                                       | NPT 3/4 | 37.5 | 90   | 35   |

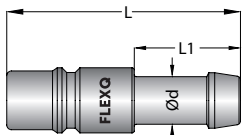
| Cylindrical male thread socket                                                      | Size |    |   | Ød      | Ød1  | L    | L1 | HEX |
|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|----|-----|
|  | 6    | MPT 06 FOB 14                                                                                                                                                                                                                                               | MPT 06 FOF 14                                                                                                                                                              | BSP 1/4 | 19   | 46   | 10 | 17  |
|                                                                                     | 9    | MPT 09 FOB 38                                                                                                                                                                                                                                               | MPT 09 FOF 38                                                                                                                                                              | BSP 3/8 | 24.5 | 53   | 11 | 22  |
|                                                                                     | 12   | MPT 12 FOB 12                                                                                                                                                                                                                                               | MPT 12 FOF 12                                                                                                                                                              | BSP 1/2 | 30   | 67   | 11 | 22  |
|                                                                                     | 16   | MPT 16 FOB 34                                                                                                                                                                                                                                               | MPT 16 FOF 34                                                                                                                                                              | BSP 3/4 | 37.5 | 90.5 | 14 | 27  |

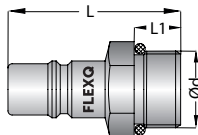
| Male thread socket 90°                                                              | Size |    |   | Ød      | Ød1  | L   | L1 | HEX |
|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|----|-----|
|  | 6    | MPT 06 FOB 14-90                                                                                                                                                                                                                                            | MPT 06 FOF 14-90                                                                                                                                                           | BSP 1/4 | 19   | 46  | 34 | 9   |
|                                                                                     | 9    | MPT 09 FOB 38-90                                                                                                                                                                                                                                            | MPT 09 FOF 38-90                                                                                                                                                           | BSP 3/8 | 24.5 | 53  | 40 | 10  |
|                                                                                     | 12   | MPT 12 FOB 12-90                                                                                                                                                                                                                                            | MPT 12 FOF 12-90                                                                                                                                                           | BSP 1/2 | 30   | 67  | 40 | 10  |
|                                                                                     | 16   | MPT 16 FOB 34-90                                                                                                                                                                                                                                            | MPT 16 FOF 34-90                                                                                                                                                           | BSP 3/4 | 37.5 | 114 | 47 | 12  |

| Size |                 | Ød      | L  | L1 | HEX | Cylindrical male thread plug                                                        |
|------|-----------------|---------|----|----|-----|-------------------------------------------------------------------------------------|
| 6    | MPT 06 MMF 14   | BSP 1/4 | 33 | 9  | 14  |  |
|      | MPT 06 MMF 38   | BSP 3/8 | 34 | 10 | 19  |                                                                                     |
| 9    | MPT 09 MMF 14   | BSP 1/4 | 35 | 10 | 15  |                                                                                     |
|      | MPT 09 MMF 38   | BSP 3/8 | 37 | 12 | 19  |                                                                                     |
|      | MPT 09 MMF 12   | BSP 1/2 | 37 | 12 | 22  |                                                                                     |
| 12   | MPT 12 MMF 12   | BSP 1/2 | 42 | 12 | 24  |                                                                                     |
|      | MPT 12 MMF 34   | BSP 3/4 | 46 | 16 | 27  |                                                                                     |
| 16   | MPT 16 MMF 34   | BSP 3/4 | 62 | 16 | 27  |                                                                                     |
|      | MPT 16 MMF 10   | BSP 1   | 60 | 22 | 32  |                                                                                     |
|      | MPT 16 MMF 2415 | M24x1.5 | 56 | 18 | 30  |                                                                                     |

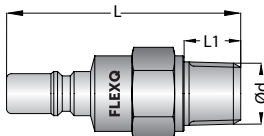
| Size |               | Ød       | L  | L1 | INNER HEX | OUTER HEX | Conical male thread plug                                                              |
|------|---------------|----------|----|----|-----------|-----------|---------------------------------------------------------------------------------------|
| 6    | MPT 06 MRF 18 | BSPT 1/8 | 30 | 9  | 5         | -         |   |
|      | MPT 06 MRF 14 | BSPT 1/4 | 31 | 13 | 5         | -         |                                                                                       |
| 9    | MPT 09 MRF 14 | BSPT 1/4 | 34 | 10 | 8         | -         |                                                                                       |
|      | MPT 09 MRF 38 | BSPT 3/8 | 36 | 13 | 8         | -         |                                                                                       |
|      | MPT 09 MRF 12 | BSPT 1/2 | 42 | 17 | -         | 22        |                                                                                       |
|      | MPT 09 MTF 14 | NPT 1/4  | 37 | 13 | 8         | -         |                                                                                       |
| 12   | MPT 09 MTF 38 | NPT 3/8  | 38 | 13 | 8         | -         |                                                                                       |
|      | MPT 12 MRF 38 | BSPT 3/8 | 39 | 13 | 10        | -         |                                                                                       |
| 12   | MPT 12 MRF 12 | BSPT 1/2 | 45 | 16 | -         | 22        |  |
|      | MPT 12 MTF 38 | NPT 3/8  | 39 | 14 | 10        | -         |                                                                                       |
|      | MPT 12 MTF 12 | NPT 1/2  | 45 | 16 | -         | 22        |                                                                                       |
| 16   | MPT 16 MRF 34 | BSPT 3/4 | 63 | 17 | -         | 27        |                                                                                       |
|      | MPT 16 MTF 34 | NPT 3/4  | 62 | 19 | -         | 27        |                                                                                       |

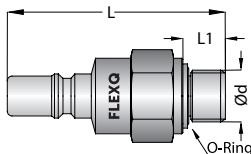
| Size |               | Ød    | L  | L1 | Push to connect hose tail plug                                                        |
|------|---------------|-------|----|----|---------------------------------------------------------------------------------------|
| 6    | MPT 06 MPF 10 | 10 mm | 45 | 24 |  |
| 9    | MPT 09 MPF 10 | 10 mm | 46 | 24 |                                                                                       |
| 9    | MPT 09 MPF 13 | 13 mm | 50 | 28 |                                                                                       |
| 12   | MPT 12 MPF 13 | 13 mm | 57 | 28 |                                                                                       |
| 12   | MPT 12 MPF 16 | 16 mm | 67 | 38 |                                                                                       |
| 16   | MPT 16 MPF 16 | 16 mm | 73 | 38 |                                                                                       |
| 16   | MPT 16 MPF 19 | 19 mm | 73 | 38 |                                                                                       |

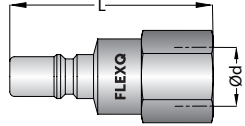
| Size |               | Ød    | L  | L1 | Standard hose tail plug                                                               |
|------|---------------|-------|----|----|---------------------------------------------------------------------------------------|
| 6    | MPT 06 MHF 08 | 8 mm  | 44 | 23 |  |
| 6    | MPT 06 MHF 10 | 10 mm | 44 | 23 |                                                                                       |
| 9    | MPT 09 MHF 12 | 12 mm | 50 | 28 |                                                                                       |
| 12   | MPT 12 MHF 12 | 12 mm | 55 | 28 |                                                                                       |
| 12   | MPT 12 MHF 16 | 16 mm | 55 | 28 |                                                                                       |
| 16   | MPT 16 MHF 19 | 19 mm | 62 | 28 |                                                                                       |

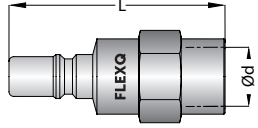
| Male thread plug with valve for multicoupling plates                              | Size |                  | Ød      | L    | L1 | HEX |
|-----------------------------------------------------------------------------------|------|------------------|---------|------|----|-----|
|  | 6    | MPT 06 MOB 38 KV | BSP 3/8 | 35.5 | 10 | 19  |
|                                                                                   | 9    | MPT 09 MOB 12 KV | BSP 1/2 | 37   | 12 | 22  |
|                                                                                   | 12   | MPT 12 MOB 34 KV | BSP 3/4 | 46   | 16 | 27  |
|                                                                                   | 16   | MPT 16 MOB 10 KV | BSP 1   | 60   | 22 | 32  |

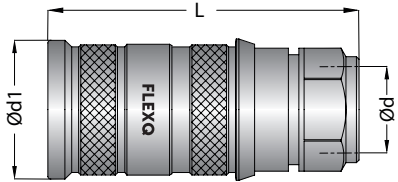
Short version for screwing into the multi-coupling blocks

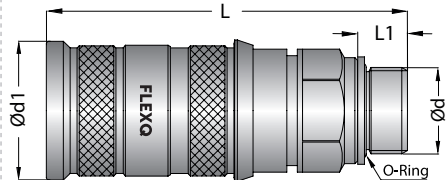
| Male thread plug with valve                                                        | Size |               | Ød       | L  | L1 | HEX |
|------------------------------------------------------------------------------------|------|---------------|----------|----|----|-----|
|  | 6    | MPT 06 MRB 14 | BSPT 1/4 | 45 | 12 | 17  |
|                                                                                    |      | MPT 06 MTB 14 | NPT 1/4  | 46 | 13 | 17  |
|                                                                                    | 9    | MPT 09 MRB 14 | BSPT 1/4 | 50 | 12 | 19  |
|                                                                                    |      | MPT 09 MRB 38 | BSPT 3/8 | 48 | 12 | 19  |
|                                                                                    |      | MPT 09 MRB 12 | BSPT 1/2 | 51 | 17 | 22  |
|                                                                                    |      | MPT 09 MTB 14 | NPT 1/4  | 52 | 13 | 19  |
|                                                                                    | 12   | MPT 09 MTB 38 | NPT 3/8  | 48 | 12 | 19  |
|                                                                                    |      | MPT 12 MRB 38 | BSPT 3/8 | 59 | 12 | 24  |
|                                                                                    |      | MPT 12 MRB 12 | BSPT 1/2 | 63 | 16 | 24  |
|                                                                                    |      | MPT 12 MTB 38 | NPT 3/8  | 59 | 13 | 24  |
|                                                                                    |      | MPT 12 MTB 12 | NPT 1/2  | 62 | 16 | 24  |
|                                                                                    | 16   | MPT 16 MRB 34 | BSPT 3/4 | 81 | 19 | 32  |
|                                                                                    |      | MPT 16 MTB 34 | NPT 3/4  | 81 | 19 | 32  |

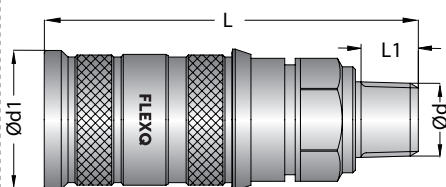
| Cylindrical male thread shut-off plug with sealing O-Ring /                         | Size |               | Ød      | L  | L1 | HEX |
|-------------------------------------------------------------------------------------|------|---------------|---------|----|----|-----|
|  | 6    | MPT 06 MOB 18 | BSP 1/8 | 43 | 7  | 17  |
|                                                                                     |      | MPT 06 MOB 14 | BSP 1/4 | 45 | 9  | 17  |
|                                                                                     | 9    | MPT 09 MOB 14 | BSP 1/4 | 48 | 9  | 19  |
|                                                                                     |      | MPT 09 MOB 38 | BSP 3/8 | 47 | 9  | 20  |
|                                                                                     | 12   | MPT 09 MOB 12 | BSP 1/2 | 48 | 12 | 24  |
|                                                                                     |      | MPT 12 MOB 38 | BSP 3/8 | 60 | 11 | 24  |
|                                                                                     |      | MPT 12 MOB 12 | BSP 1/2 | 60 | 12 | 24  |
|                                                                                     | 16   | MPT 12 MOB 34 | BSP 3/4 | 59 | 14 | 32  |
|                                                                                     | 16   | MPT 16 MOB 34 | BSP 3/4 | 81 | 14 | 32  |

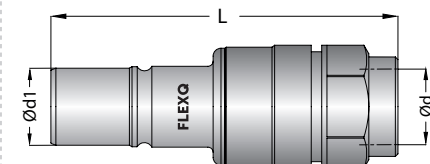
| Size |               | Ød      | L  | HEX | Female thread plug                                                                  |
|------|---------------|---------|----|-----|-------------------------------------------------------------------------------------|
| 6    | MPT 06 MFF 14 | BSP 1/4 | 34 | 17  |  |
|      | MPT 06 MNF 14 | NPT 1/4 | 36 | 17  |                                                                                     |
| 9    | MPT 09 MFF 14 | BSP 1/4 | 37 | 21  |                                                                                     |
|      | MPT 09 MFF 38 | BSP 3/8 | 37 | 21  |                                                                                     |
|      | MPT 09 MNF 14 | NPT 1/4 | 37 | 21  |                                                                                     |
|      | MPT 09 MNF 38 | NPT 3/8 | 37 | 21  |                                                                                     |
| 12   | MPT 12 MFF 38 | BSP 3/8 | 39 | 21  |                                                                                     |
|      | MPT 12 MFF 12 | BSP 1/2 | 45 | 27  |                                                                                     |
| 16   | MPT 16 MFF 34 | BSP 3/4 | 61 | 32  |                                                                                     |
|      | MPT 16 MNF 34 | NPT 3/4 | 61 | 32  |                                                                                     |

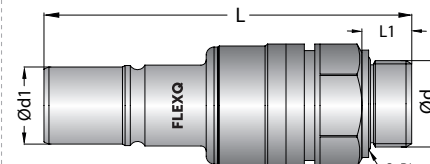
| Size |               | Ød      | L  | HEX | Female thread plug with valve                                                         |
|------|---------------|---------|----|-----|---------------------------------------------------------------------------------------|
| 6    | MPT 06 MFB 14 | BSP 1/4 | 47 | 17  |  |
|      | MPT 06 MNB 14 | NPT 1/4 | 47 | 17  |                                                                                       |
| 9    | MPT 09 MFB 14 | BSP 1/4 | 49 | 19  |                                                                                       |
|      | MPT 09 MFB 38 | BSP 3/8 | 49 | 21  |                                                                                       |
|      | MPT 09 MNB 14 | NPT 1/4 | 49 | 19  |                                                                                       |
|      | MPT 09 MNB 38 | NPT 3/8 | 49 | 21  |                                                                                       |
| 12   | MPT 12 MFB 12 | BSP 1/2 | 63 | 27  |                                                                                       |
|      | MPT 12 MNB 12 | NPT 1/2 | 65 | 27  |                                                                                       |
| 16   | MPT 16 MFB 34 | BSP 3/4 | 81 | 32  |                                                                                       |
|      | MPT 16 MNB 34 | NPT 3/4 | 81 | 32  |                                                                                       |

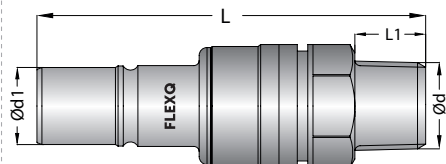
| Size |                | Ød        | Ød1 | L   | HEX | Cylindrical female thread socket                                                      |
|------|----------------|-----------|-----|-----|-----|---------------------------------------------------------------------------------------|
| 20   | MPT 20 FFB 34  | BSP 3/4   | 54  | 119 | 41  |  |
|      | MPT 20 FFB 10  | BSP 1     | 54  | 120 | 41  |                                                                                       |
|      | MPT 20 FNB 10  | NPT 1     | 54  | 120 | 41  |                                                                                       |
| 25   | MPT 25 FFB 10  | BSP 1     | 60  | 142 | 50  |                                                                                       |
|      | MPT 25 FFB 114 | BSP 1 1/4 | 60  | 142 | 50  |                                                                                       |
|      | MPT 25 FNB 10  | NPT 1     | 60  | 142 | 50  |                                                                                       |
|      | MPT 25 FNB 114 | NPT 1 1/4 | 60  | 142 | 50  |                                                                                       |
| 38   | MPT 38 FFB 112 | BSP 1 1/2 | 81  | 151 | 60  |                                                                                       |
|      | MPT 38 FFB 20  | BSP 2     | 81  | 155 | 70  |                                                                                       |

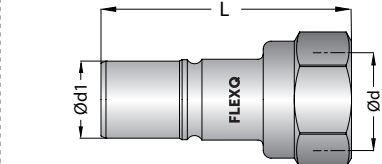
| Size |                | Ød        | Ød1 | L   | L1 | HEX | Cylindrical male thread socket with O-Ring                                            |
|------|----------------|-----------|-----|-----|----|-----|---------------------------------------------------------------------------------------|
| 20   | MPT 20 FOB 34  | BSP 3/4   | 54  | 130 | 16 | 60  |  |
|      | MPT 20 FOB 10  | BSP 1     | 54  | 131 | 17 | 70  |                                                                                       |
| 25   | MPT 25 FOB 10  | BSP 1     | 60  | 142 | 19 | 50  |                                                                                       |
|      | MPT 25 FOB 114 | BSP 1 1/4 | 60  | 142 | 19 | 50  |                                                                                       |
| 38   | MPT 38 FOB 112 | BSP 1 1/2 | 75  | 164 | 22 | 70  |                                                                                       |
|      | MPT 38 FOB 20  | BSP 2     | 75  | 164 | 22 | 70  |                                                                                       |

| NPT male thread socket                                                           | Size |                | Ød        | Ød1 | L   | L1 | HEX |
|----------------------------------------------------------------------------------|------|----------------|-----------|-----|-----|----|-----|
|  | 20   | MPT 20 FTB 10  | NPT 1     | 54  | 136 | 22 | 42  |
|                                                                                  | 25   | MPT 25 FTB 114 | NPT 1 1/4 | 60  | 144 | 22 | 50  |
|                                                                                  | 38   | MPT 38 FTB 112 | NPT 1 1/2 | 75  | 164 | 24 | 70  |
|                                                                                  | 38   | MPT 38 FTB 20  | NPT 2     | 75  | 166 | 26 | 70  |

| Cylindrical female thread plug with valve                                        | Size |                | Ød        | Ød1  | L   | HEX |
|----------------------------------------------------------------------------------|------|----------------|-----------|------|-----|-----|
|  | 20   | MPT 20 MFB 34  | BSP 3/4   | 29.5 | 126 | 41  |
|                                                                                  |      | MPT 20 MFB 10  | BSP 1     | 29.5 | 127 | 41  |
|                                                                                  |      | MPT 20 MNB 34  | NPT 3/4   | 29.5 | 126 | 41  |
|                                                                                  |      | MPT 20 MNB 10  | NPT 1     | 29.5 | 127 | 41  |
|                                                                                  | 25   | MPT 25 MFB 10  | BSP 1     | 34.5 | 149 | 50  |
|                                                                                  |      | MPT 25 MFB 114 | BSP 1 1/4 | 34.5 | 149 | 50  |
|                                                                                  |      | MPT 25 MNB 10  | NPT 1     | 34.5 | 149 | 50  |
|                                                                                  |      | MPT 25 MNB 114 | NPT 1 1/4 | 34.5 | 149 | 50  |
|                                                                                  | 38   | MPT 38 MFB 112 | BSP 1 1/2 | 46.5 | 158 | 60  |
|                                                                                  |      | MPT 38 MFB 20  | BSP 2     | 46.5 | 160 | 70  |

| Cylindrical male thread plug with valve                                            | Size |                | Ød        | Ød1  | L   | L1 | HEX |
|------------------------------------------------------------------------------------|------|----------------|-----------|------|-----|----|-----|
|  | 20   | MPT 20 MOB 34  | BSP 3/4   | 29.5 | 138 | 16 | 41  |
|                                                                                    |      | MPT 20 MOB 10  | BSP 1     | 29.5 | 139 | 17 | 41  |
|                                                                                    | 25   | MPT 25 MOB 10  | BSP 1     | 34.5 | 150 | 19 | 50  |
|                                                                                    |      | MPT 25 MOB 114 | BSP 1 1/4 | 34.5 | 150 | 19 | 50  |
|                                                                                    |      | MPT 25 MOB 112 | BSP 1 1/2 | 34.5 | 153 | 22 | 55  |

| NPT male thread plug with valve                                                    | Size |                | Ød        | Ød1  | L   | L1 | HEX |
|------------------------------------------------------------------------------------|------|----------------|-----------|------|-----|----|-----|
|  | 20   | MPT 20 MTB 10  | NPT 1     | 29.5 | 146 | 24 | 42  |
|                                                                                    | 25   | MPT 25 MTB 112 | NPT 1 1/2 | 34.5 | 156 | 24 | 50  |

| Cylindrical female thread plug                                                     | Size |                | Ød        | Ød1  | L   | HEX |
|------------------------------------------------------------------------------------|------|----------------|-----------|------|-----|-----|
|  | 20   | MPT 20 MFF 10  | BSP 1     | 29.5 | 92  | 41  |
|                                                                                    | 25   | MPT 25 MFF 10  | BSP 1     | 34.5 | 100 | 41  |
|                                                                                    | 25   | MPT 25 MFF 114 | BSP 1 1/4 | 34.5 | 108 | 50  |
|                                                                                    | 25   | MPT 25 MFF 112 | BSP 1 1/2 | 34.5 | 108 | 55  |

# FLEXQ

■ MONOCOUPPLINGS FOR FLUIDS / SERIES MPT



**FLEXQ**  
CONNECTORS

**PBX**  
Push button



**LINKING PRECISION WITH PERFORMANCE**

## PBX, the modular quick coupling system for air, fluids and hydraulic applications

### Characteristics

- Optimized flow
- Excellent handling
- One-handed disconnection via push button
- 7 nominal sizes
- Available in stainless steel
- ISO 6150-C profile

### Designed as a modular system

Thanks to the modular system of the PBX series, a wide range of configuration options is available: seven nominal sizes, three materials, seven sealing materials, three shut-off variants, and numerous additional options. This allows the appropriate quick coupling to be individually selected for any application, depending on the medium, pressure, temperature, and required flow rate.

### Variations

|            |                           |                    |                                |
|------------|---------------------------|--------------------|--------------------------------|
| <b>PBS</b> | <b>Pneumatic / Safety</b> | <b>16 bar</b>      | <b>Steel / Stainless steel</b> |
| <b>PBP</b> | <b>Pneumatic</b>          | <b>50 bar</b>      | <b>Steel / Stainless steel</b> |
| <b>PBW</b> | <b>Fluid / Gases</b>      | <b>50 bar</b>      | <b>Stainless steel</b>         |
| <b>PBH</b> | <b>Hydraulic</b>          | <b>300-400 bar</b> | <b>Stainless steel / 316L</b>  |
| <b>PBI</b> | <b>Fluid / Gases</b>      | <b>15 bar</b>      | <b>AISI 316 L</b>              |

**PBX** PUSH BUTTON



## SERIE PBS

PNEUMATICS - SAFETY

PROFILE ISO 6150-C with Push button

### Options

- Colour coding
- Fixing ring

R / B  
BO

### Applications

- Pneumatics

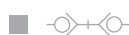
### Safety standard

- ISO 4414, EN 983
- 2 stage disconnection



### Materials

|                 |                     |
|-----------------|---------------------|
| Body Socket     | Edelstahl AISI 303  |
| Socket backpart | Steel zinc plated   |
| Plug            | Stainless steel     |
| Button          | AISI 420 chrome pl. |
| Valve           | Brass               |
| Spring          | Stainless steel     |
| Seals           | NBR (N)             |



Temperature range

Nitril (NBR)

- 15 °C +100 °C

PBS 06 PBS 08 PBS 11



Flow Size

6

8

11



Pressure

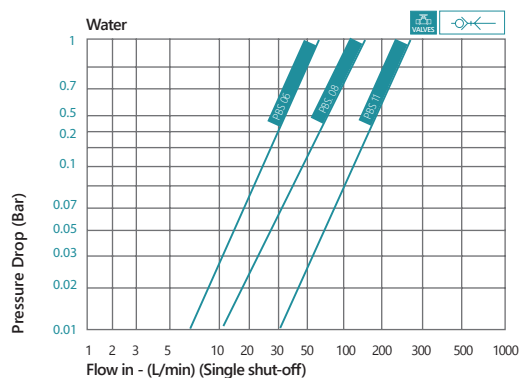
12

16

16

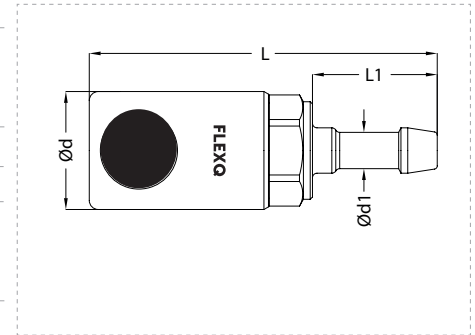
FLEXQ

Series PBP - Flow Rate vs Pressure Drop



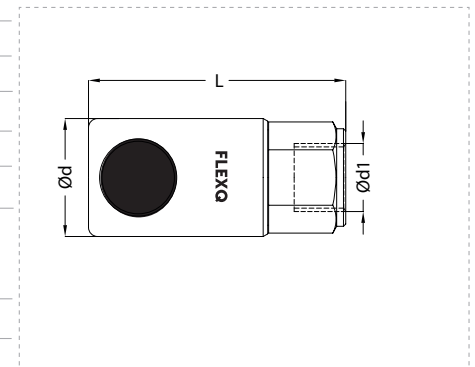
| NW |               | Ød1   | Ød | L  | L1 | HEX |
|----|---------------|-------|----|----|----|-----|
| 6  | PBS 06 FHO 06 | 6 mm  | 22 | 69 | 23 | 22  |
|    | PBS 06 FHO 08 | 8 mm  | 22 | 69 | 23 | 22  |
|    | PBS 06 FHO 10 | 10 mm | 22 | 69 | 23 | 22  |
|    | PBS 06 FHO 13 | 13mm  | 22 | 73 | 25 | 22  |
| 8  | PBS 08 FHO 06 | 6 mm  | 27 | 81 | 23 | 27  |
|    | PBS 08 FHO 08 | 8 mm  | 27 | 81 | 23 | 27  |
|    | PBS 08 FHO 10 | 10 mm | 27 | 81 | 23 | 27  |
|    | PBS 08 FHO 13 | 13mm  | 27 | 84 | 26 | 27  |
| 11 | PBS 11 FHO 08 | 8 mm  | 33 | 92 | 23 | 32  |
|    | PBS 11 FHO 10 | 10 mm | 33 | 92 | 23 | 32  |
|    | PBS 11 FHO 13 | 13 mm | 33 | 94 | 26 | 32  |
|    | PBS 11 FHO 16 | 16mm  | 33 | 94 | 26 | 32  |

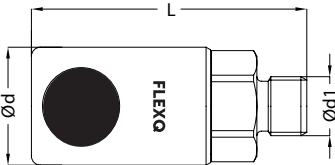
Standard hose tail socket



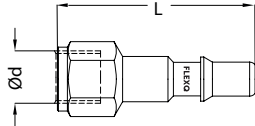
| NW |               | Ød1      | Ød | L  | HEX |
|----|---------------|----------|----|----|-----|
| 6  | PBS 06 FFO 18 | BSP 1/8" | 22 | 49 | 28  |
|    | PBS 06 FFO 14 | BSP 1/4" | 22 | 52 | 20  |
|    | PBS 06 FFO 38 | BSP 3/8" | 22 | 55 | 20  |
|    | PBS 06 FFO 12 | BSP 1/2" | 22 | 59 | 24  |
|    | PBS 06 FNO 18 | NPT 1/8" | 22 | 51 | 20  |
|    | PBS 06 FNO 14 | NPT 1/4" | 22 | 54 | 20  |
|    | PBS 06 FNO 38 | NPT 3/8" | 22 | 57 | 20  |
|    | PBS 06 FNO 12 | NPT 1/2" | 22 | 61 | 24  |
| 8  | PBS 08 FFO 14 | BSP 1/4" | 27 | 70 | 24  |
|    | PBS 08 FFO 38 | BSP 3/8" | 27 | 70 | 24  |
|    | PBS 08 FFO 12 | BSP 1/2" | 27 | 73 | 24  |
|    | PBS 08 FNO 14 | NPT 1/4" | 27 | 72 | 24  |
|    | PBS 08 FNO 38 | NPT 3/8" | 27 | 72 | 24  |
|    | PBS 08 FNO 12 | NPT 1/2" | 27 | 75 | 24  |
| 11 | PBS 11 FFO 38 | BSP 3/8" | 33 | 78 | 30  |
|    | PBS 11 FFO 12 | BSP 1/2" | 33 | 79 | 30  |
|    | PBS 11 FFO 34 | BSP 3/4" | 33 | 83 | 30  |
|    | PBS 11 FNO 38 | NPT 3/8" | 33 | 81 | 30  |
|    | PBS 11 FNO 12 | NPT 1/2" | 33 | 86 | 30  |
|    | PBS 11 FNO 34 | NPT 3/4" | 33 | 88 | 30  |

Female thread socket

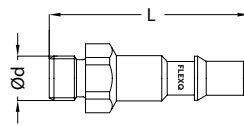


| Male thread socket                                                                |    |  |  | Ød1 | Ød | L  | HEX |
|-----------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|----|----|-----|
|  | 6  | PBS 06 FMO 18                                                                     | BSP 1/8"                                                                          | 22  | 53 | 20 |     |
|                                                                                   |    | PBS 06 FMO 14                                                                     | BSP 1/4"                                                                          | 22  | 55 | 20 |     |
|                                                                                   |    | PBS 06 FMO 38                                                                     | BSP 3/8"                                                                          | 22  | 55 | 20 |     |
|                                                                                   |    | PBS 06 FMO 12                                                                     | BSP 1/2"                                                                          | 22  | 57 | 22 |     |
|                                                                                   |    | PBS 06 FTO 18                                                                     | NPT 1/8"                                                                          | 22  | 55 | 20 |     |
|                                                                                   |    | PBS 06 FTO 14                                                                     | NPT 1/4"                                                                          | 22  | 57 | 20 |     |
|                                                                                   |    | PBS 06 FTO 38                                                                     | NPT 3/8"                                                                          | 22  | 57 | 20 |     |
|                                                                                   |    | PBS 06 FTO 12                                                                     | NPT 1/2"                                                                          | 22  | 60 | 22 |     |
|                                                                                   | 8  | PBS 08 FMO 14                                                                     | BSP 1/4"                                                                          | 27  | 70 | 24 |     |
|                                                                                   |    | PBS 08 FMO 38                                                                     | BSP 3/8"                                                                          | 27  | 70 | 24 |     |
|                                                                                   |    | PBS 08 FMO 12                                                                     | BSP 1/2"                                                                          | 27  | 73 | 24 |     |
|                                                                                   |    | PBS 08 FTO 14                                                                     | NPT 1/4"                                                                          | 27  | 71 | 24 |     |
|                                                                                   |    | PBS 08 FTO 38                                                                     | NPT 3/8"                                                                          | 27  | 71 | 24 |     |
|                                                                                   |    | PBS 08 FTO 12                                                                     | NPT 1/2"                                                                          | 27  | 75 | 24 |     |
|                                                                                   | 11 | PBS 11 FMO 38                                                                     | BSP 3/8"                                                                          | 33  | 83 | 30 |     |
|                                                                                   |    | PBS 11 FMO 12                                                                     | BSP 1/2"                                                                          | 33  | 87 | 30 |     |
|                                                                                   |    | PBS 11 FMO 34                                                                     | BSP 3/4"                                                                          | 33  | 90 | 30 |     |
|                                                                                   |    | PBS 11 FTO 38                                                                     | NPT 3/8"                                                                          | 33  | 85 | 30 |     |
| PBS 11 FTO 12                                                                     |    | NPT 1/2"                                                                          | 33                                                                                | 90  | 30 |    |     |
| PBS 11 FTO 34                                                                     |    | NPT 3/4"                                                                          | 33                                                                                | 92  | 30 |    |     |

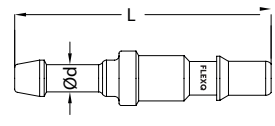
Female thread plug



Standard hose tail plug



Male thread plug



|    |               | Ød       | L  | HEX |               | Ød       | L  | HEX |               | Ød    | L  |
|----|---------------|----------|----|-----|---------------|----------|----|-----|---------------|-------|----|
| 6  | PBP 06 MFF 18 | BSP 1/8" | 42 | 14  | PBP 06 MMF 18 | BSP 1/8" | 44 | 14  | PBP 06 MHF 04 | 4 mm  | 62 |
|    | PBP 06 MFF 14 | BSP 1/4" | 47 | 17  | PBP 06 MMF 14 | BSP 1/4" | 48 | 14  | PBP 06 MHF 06 | 6 mm  | 62 |
|    | PBP 06 MFF 38 | BSP 3/8" | 50 | 22  | PBP 06 MMF 38 | BSP 3/8" | 52 | 19  | PBP 06 MHF 08 | 8 mm  | 62 |
|    | PBP 06 MFF 12 | BSP 1/2" | 53 | 27  | PBP 06 MMF 12 | BSP 1/2" | 55 | 24  | PBP 06 MHF 10 | 10 mm | 62 |
|    | PBP 06 MNF 18 | NPT 1/8" | 42 | 14  | PBP 06 MTF 18 | NPT 1/8" | 45 | 14  | PBP 06 MHF 13 | 13 mm | 64 |
|    | PBP 06 MNF 14 | NPT 1/4" | 47 | 17  | PBP 06 MTF 14 | NPT 1/4" | 47 | 14  |               |       |    |
|    | PBP 06 MNF 38 | NPT 3/8" | 50 | 22  | PBP 06 MTF 38 | NPT 3/8" | 53 | 19  |               |       |    |
|    | PBP 06 MNF 12 | NPT 1/2" | 53 | 27  | PBP 06 MTF 12 | NPT 1/2" | 54 | 24  |               |       |    |
| 8  | PBP 08 MFF 14 | BSP 1/4" | 56 | 24  | PBP 08 MMF 14 | BSP 1/4" | 55 | 17  | PBP 08 MHF 06 | 6 mm  | 66 |
|    | PBP 08 MFF 38 | BSP 3/8" | 58 | 24  | PBP 08 MMF 38 | BSP 3/8" | 57 | 19  | PBP 08 MHF 08 | 8 mm  | 66 |
|    | PBP 08 MFF 12 | BSP 1/2" | 59 | 24  | PBP 08 MMF 12 | BSP 1/2" | 60 | 24  | PBP 08 MHF 10 | 10 mm | 66 |
|    | PBP 08 MNF 14 | NPT 1/4" | 56 | 24  | PBP 08 MTF 14 | NPT 1/4" | 56 | 17  | PBP 08 MHF 13 | 13mm  | 66 |
|    | PBP 08 MNF 38 | NPT 3/8" | 58 | 24  | PBP 08 MTF 38 | NPT 3/8" | 57 | 19  | PBP 08 MHF 16 | 16 mm | 70 |
|    | PBP 08 MNF 12 | NPT 1/2" | 60 | 24  | PBP 08 MTF 12 | NPT 1/2" | 64 | 24  |               |       |    |
| 11 | PBP 11 MFF 38 | BSP 3/8" | 62 | 22  | PBP 11 MMF 38 | BSP 3/8" | 65 | 19  | PBP 11 MHF 08 | 8 mm  | 70 |
|    | PBP 11 MFF 12 | BSP 1/2" | 66 | 27  | PBP 11 MMF 12 | BSP 1/2" | 68 | 24  | PBP 11 MHF 10 | 10 mm | 70 |
|    | PBP 11 MFF 34 | BSP 3/4" | 69 | 32  | PBP 11 MMF 34 | BSP 3/4" | 70 | 30  | PBP 11 MHF 13 | 13 mm | 72 |
|    | PBP 11 MNF 38 | NPT 3/8" | 62 | 22  | PBP 11 MTF 38 | NPT 3/8" | 66 | 19  | PBP 11 MHF 16 | 16 mm | 74 |
|    | PBP 11 MNF 12 | NPT 1/2" | 66 | 27  | PBP 11 MTF 12 | NPT 1/2" | 69 | 24  | PBP 11 MHF 19 | 19 mm | 80 |
|    | PBP 11 MNF 34 | NPT 3/4" | 69 | 32  | PBP 11 MTF 34 | NPT 3/4" | 71 | 30  |               |       |    |

## SERIE PBP

PNEUMATICS

PROFILE ISO 6150-C with Push button

### Options

- Colour coding
- Raised push button
- Fixing ring

R / B  
ED  
BO

### Applications

- Pneumatics
- Gases



### Materials

|                 |                        |
|-----------------|------------------------|
| Body Socket     | Stainless st. AISI 303 |
| Socket backpart | Steel zinc plated      |
| Plug            | Stainless steel        |
| Button          | AISI 420 chrome pl.    |
| Valve           | Brass                  |
| Spring          | Stainless steel        |
| Seals           | NBR (N)                |



VALVES



max.

### Temperature range

|                   |   |                 |
|-------------------|---|-----------------|
| Nitril (NBR)      | N | - 15 °C +100 °C |
| Fluorcarbon (FPM) | V | -20 °C +200 °C  |

Always make sure that no medium flowing before disconnecting

PBP 03 PBP 06 PBP 08 PBP 11 PBP 13 PBP 16 PBP 19



mm

Flow Size

3 6 8 11 13 16 19



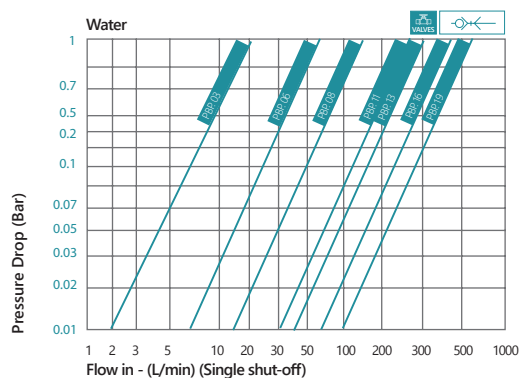
max.

Pressure

50 50 50 50 50 50 50

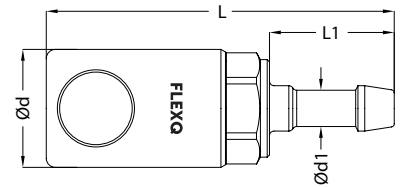
FLEXQ

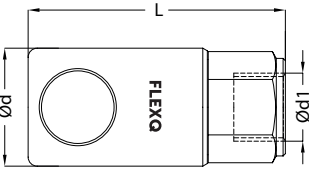
Series PBP - Flow Rate vs Pressure Drop



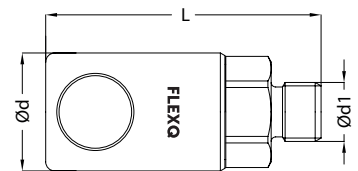
|  |  |   |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|
|  |  | ✓ |
|  |  | ✓ |
|  |  | ✗ |
|  |  | ✓ |
|  |  | ✗ |
|  |  | ✓ |

| Size |  |  |  | Ød1   | Ød | L   | L1 | HEX | Standard hose tail socket |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|----|-----|----|-----|---------------------------|
| 3    | PBP 03 FHB 04                                                                     | PBP 03 FHO 04                                                                     | PBP 03 FHF 04                                                                     | 4 mm  | 16 | 52  | 18 | 14  |                           |
|      | PBP 03 FHB 06                                                                     | PBP 03 FHO 06                                                                     | PBP 03 FHF 06                                                                     | 6 mm  | 16 | 52  | 18 | 14  |                           |
| 6    | PBP 06 FHB 06                                                                     | PBP 06 FHO 06                                                                     | PBP 06 FHF 06                                                                     | 6 mm  | 26 | 69  | 23 | 22  |                           |
|      | PBP 06 FHB 08                                                                     | PBP 06 FHO 08                                                                     | PBP 06 FHF 08                                                                     | 8 mm  | 26 | 69  | 23 | 22  |                           |
|      | PBP 06 FHB 10                                                                     | PBP 06 FHO 10                                                                     | PBP 06 FHF 10                                                                     | 10 mm | 26 | 69  | 23 | 22  |                           |
|      | PBP 06 FHB 13                                                                     | PBP 06 FHO 13                                                                     | PBP 06 FHF 13                                                                     | 13mm  | 26 | 73  | 25 | 22  |                           |
| 8    | PBP 08 FHB 06                                                                     | PBP 08 FHO 06                                                                     | PBP 08 FHF 06                                                                     | 6 mm  | 32 | 81  | 23 | 27  |                           |
|      | PBP 08 FHB 08                                                                     | PBP 08 FHO 08                                                                     | PBP 08 FHF 08                                                                     | 8 mm  | 32 | 81  | 23 | 27  |                           |
|      | PBP 08 FHB 10                                                                     | PBP 08 FHO 10                                                                     | PBP 08 FHF 10                                                                     | 10 mm | 32 | 81  | 23 | 27  |                           |
|      | PBP 08 FHB 13                                                                     | PBP 08 FHO 13                                                                     | PBP 08 FHF 13                                                                     | 13mm  | 32 | 84  | 26 | 27  |                           |
| 11   | PBP 11 FHB 08                                                                     | PBP 11 FHO 08                                                                     | PBP 11 FHF 08                                                                     | 8 mm  | 38 | 92  | 23 | 32  |                           |
|      | PBP 11 FHB 10                                                                     | PBP 11 FHO 10                                                                     | PBP 11 FHF 10                                                                     | 10 mm | 38 | 92  | 23 | 32  |                           |
|      | PBP 11 FHB 13                                                                     | PBP 11 FHO 13                                                                     | PBP 11 FHF 13                                                                     | 13 mm | 38 | 94  | 26 | 32  |                           |
|      | PBP 11 FHB 16                                                                     | PBP 11 FHO 16                                                                     | PBP 11 FHF 16                                                                     | 16mm  | 38 | 94  | 26 | 32  |                           |
| 13   | PBP 13 FHB 10                                                                     | PBP 13 FHO 10                                                                     | PBP 13 FHF 10                                                                     | 10 mm | 38 | 92  | 23 | 32  |                           |
|      | PBP 13 FHB 13                                                                     | PBP 13 FHO 13                                                                     | PBP 13 FHF 13                                                                     | 13 mm | 38 | 94  | 26 | 32  |                           |
|      | PBP 13 FHB 16                                                                     | PBP 13 FHO 16                                                                     | PBP 13 FHF 16                                                                     | 16 mm | 38 | 94  | 26 | 32  |                           |
|      | PBP 13 FHB 19                                                                     | PBP 13 FHO 19                                                                     | PBP 13 FHF 19                                                                     | 19 mm | 38 | 99  | 33 | 32  |                           |
| 16   | PBP 16 FHB 10                                                                     | PBP 16 FHO 10                                                                     | PBP 16 FHF 10                                                                     | 10 mm | 44 | 101 | 23 | 38  |                           |
|      | PBP 16 FHB 13                                                                     | PBP 16 FHO 13                                                                     | PBP 16 FHF 13                                                                     | 13 mm | 44 | 104 | 26 | 38  |                           |
|      | PBP 16 FHB 16                                                                     | PBP 16 FHO 16                                                                     | PBP 16 FHF 16                                                                     | 16 mm | 44 | 104 | 26 | 38  |                           |
|      | PBP 16 FHB 19                                                                     | PBP 16 FHO 19                                                                     | PBP 16 FHF 19                                                                     | 19 mm | 44 | 101 | 33 | 38  |                           |
| 19   | PBP 19 FHB 19                                                                     | PBP 19 FHO 19                                                                     | PBP 19 FHF 19                                                                     | 19 mm | 55 | 125 | 37 | 46  |                           |
|      | PBP 19 FHB 25                                                                     | PBP 19 FHO 25                                                                     | PBP 19 FHF 25                                                                     | 25 mm | 55 | 140 | 50 | 46  |                           |

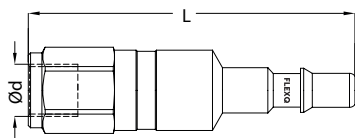


| Female thread socket                                                               |    |  Size |  |  |  | Ød1 | Ød  | L  | HEX |
|------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|----|-----|
|  | 3  | PBP 03 FFB 18                                                                          | PBP 03 FFO 18                                                                     | PBP 03 FFF 18                                                                     | BSP 1/8"                                                                            | 16  | 43  | 14 |     |
|                                                                                    |    | PBP 03 FNB 18                                                                          | PBP 03 FNO 18                                                                     | PBP 03 FNF 18                                                                     | NPT 1/8"                                                                            | 16  | 43  | 14 |     |
|                                                                                    | 6  | PBP 06 FFB 18                                                                          | PBP 06 FFO 18                                                                     | PBP 06 FFF 18                                                                     | BSP 1/8"                                                                            | 26  | 53  | 22 |     |
|                                                                                    |    | PBP 06 FFB 14                                                                          | PBP 06 FFO 14                                                                     | PBP 06 FFF 14                                                                     | BSP 1/4"                                                                            | 26  | 53  | 22 |     |
|                                                                                    |    | PBP 06 FFB 38                                                                          | PBP 06 FFO 38                                                                     | PBP 06 FFF 38                                                                     | BSP 3/8"                                                                            | 26  | 57  | 22 |     |
|                                                                                    |    | PBP 06 FFB 12                                                                          | PBP 06 FFO 12                                                                     | PBP 06 FFF 12                                                                     | BSP 1/2"                                                                            | 26  | 61  | 24 |     |
|                                                                                    |    | PBP 06 FNB 18                                                                          | PBP 06 FNO 18                                                                     | PBP 06 FNF 18                                                                     | NPT 1/8"                                                                            | 26  | 53  | 22 |     |
|                                                                                    |    | PBP 06 FNB 14                                                                          | PBP 06 FNO 14                                                                     | PBP 06 FNF 14                                                                     | NPT 1/4"                                                                            | 26  | 53  | 22 |     |
|                                                                                    |    | PBP 06 FNB 38                                                                          | PBP 06 FNO 38                                                                     | PBP 06 FNF 38                                                                     | NPT 3/8"                                                                            | 26  | 57  | 22 |     |
|                                                                                    |    | PBP 06 FNB 12                                                                          | PBP 06 FNO 12                                                                     | PBP 06 FNF 12                                                                     | NPT 1/2"                                                                            | 26  | 61  | 24 |     |
|                                                                                    | 8  | PBP 08 FFB 14                                                                          | PBP 08 FFO 14                                                                     | PBP 08 FFF 14                                                                     | BSP 1/4"                                                                            | 32  | 66  | 27 |     |
|                                                                                    |    | PBP 08 FFB 38                                                                          | PBP 08 FFO 38                                                                     | PBP 08 FFF 38                                                                     | BSP 3/8"                                                                            | 32  | 66  | 27 |     |
|                                                                                    |    | PBP 08 FFB 12                                                                          | PBP 08 FFO 12                                                                     | PBP 08 FFF 12                                                                     | BSP 1/2"                                                                            | 32  | 74  | 27 |     |
|                                                                                    |    | PBP 08 FNB 14                                                                          | PBP 08 FNO 14                                                                     | PBP 08 FNF 14                                                                     | NPT 1/4"                                                                            | 32  | 66  | 27 |     |
|                                                                                    |    | PBP 08 FNB 38                                                                          | PBP 08 FNO 38                                                                     | PBP 08 FNF 38                                                                     | NPT 3/8"                                                                            | 32  | 66  | 27 |     |
|                                                                                    |    | PBP 08 FNB 12                                                                          | PBP 08 FNO 12                                                                     | PBP 08 FNF 12                                                                     | NPT 1/2"                                                                            | 32  | 74  | 27 |     |
|                                                                                    | 11 | PBP 11 FFB 38                                                                          | PBP 11 FFO 38                                                                     | PBP 11 FFF 38                                                                     | BSP 3/8"                                                                            | 38  | 76  | 32 |     |
|                                                                                    |    | PBP 11 FFB 12                                                                          | PBP 11 FFO 12                                                                     | PBP 11 FFF 12                                                                     | BSP 1/2"                                                                            | 38  | 78  | 32 |     |
|                                                                                    |    | PBP 11 FFB 34                                                                          | PBP 11 FFO 34                                                                     | PBP 11 FFF 34                                                                     | BSP 3/4"                                                                            | 38  | 85  | 34 |     |
|                                                                                    |    | PBP 11 FNB 38                                                                          | PBP 11 FNO 38                                                                     | PBP 11 FNF 38                                                                     | NPT 3/8"                                                                            | 38  | 76  | 32 |     |
|                                                                                    |    | PBP 11 FNB 12                                                                          | PBP 11 FNO 12                                                                     | PBP 11 FNF 12                                                                     | NPT 1/2"                                                                            | 38  | 78  | 32 |     |
|                                                                                    |    | PBP 11 FNB 34                                                                          | PBP 11 FNO 34                                                                     | PBP 11 FNF 34                                                                     | NPT 3/4"                                                                            | 38  | 85  | 34 |     |
|                                                                                    | 13 | PBP 13 FFB 38                                                                          | PBP 13 FFO 38                                                                     | PBP 13 FFF 38                                                                     | BSP 3/8"                                                                            | 38  | 76  | 32 |     |
|                                                                                    |    | PBP 13 FFB 12                                                                          | PBP 13 FFO 12                                                                     | PBP 13 FFF 12                                                                     | BSP 1/2"                                                                            | 38  | 78  | 32 |     |
|                                                                                    |    | PBP 13 FFB 34                                                                          | PBP 13 FFO 34                                                                     | PBP 13 FFF 34                                                                     | BSP 3/4"                                                                            | 38  | 85  | 34 |     |
|                                                                                    |    | PBP 13 FNB 38                                                                          | PBP 13 FNO 38                                                                     | PBP 13 FNF 38                                                                     | NPT 3/8"                                                                            | 38  | 76  | 32 |     |
|                                                                                    |    | PBP 13 FNB 12                                                                          | PBP 13 FNO 12                                                                     | PBP 13 FNF 12                                                                     | NPT 1/2"                                                                            | 38  | 78  | 32 |     |
|                                                                                    |    | PBP 13 FNB 34                                                                          | PBP 13 FNO 34                                                                     | PBP 13 FNF 34                                                                     | NPT 3/4"                                                                            | 38  | 85  | 34 |     |
|                                                                                    | 16 | PBP 16 FFB 12                                                                          | PBP 16 FFO 12                                                                     | PBP 16 FFF 12                                                                     | BSP 1/2"                                                                            | 44  | 93  | 32 |     |
|                                                                                    |    | PBP 16 FFB 34                                                                          | PBP 16 FFO 34                                                                     | PBP 16 FFF 34                                                                     | BSP 3/4"                                                                            | 44  | 98  | 32 |     |
|                                                                                    |    | PBP 16 FNB 12                                                                          | PBP 16 FNO 12                                                                     | PBP 16 FNF 12                                                                     | NPT 1/2"                                                                            | 44  | 93  | 34 |     |
|                                                                                    |    | PBP 16 FNB 34                                                                          | PBP 16 FNO 34                                                                     | PBP 16 FNF 34                                                                     | NPT 3/4"                                                                            | 44  | 98  | 32 |     |
|                                                                                    | 19 | PBP 19 FFB 34                                                                          | PBP 19 FFO 34                                                                     | PBP 19 FFF 34                                                                     | BSP 3/4"                                                                            | 55  | 115 | 46 |     |
|                                                                                    |    | PBP 19 FFB 10                                                                          | PBP 19 FFO 10                                                                     | PBP 19 FFF 10                                                                     | BSP 1"                                                                              | 55  | 115 | 46 |     |
|                                                                                    |    | PBP 19 FNB 34                                                                          | PBP 19 FNO 34                                                                     | PBP 19 FNF 34                                                                     | NPT 3/4"                                                                            | 55  | 115 | 46 |     |
|                                                                                    |    | PBP 19 FNB 10                                                                          | PBP 19 FNO 10                                                                     | PBP 19 FNF 10                                                                     | NPT 1"                                                                              | 55  | 115 | 46 |     |

| Size |  |  |  | Ød1      | Ød | L   | HEX | Male thread socket |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|----|-----|-----|--------------------|
| 3    | PBP 03 FMB 18                                                                     | PBP 03 FMO 18                                                                     | PBP 03 FMF 18                                                                     | BSP 1/8" | 16 | 43  | 14  |                    |
|      | PBP 03 FMB 14                                                                     | PBP 03 FMO 14                                                                     | PBP 03 FMF 18                                                                     | BSP 1/4" | 16 | 45  | 14  |                    |
|      | PBP 03 FTB 18                                                                     | PBP 03 FTO 18                                                                     | PBP 03 FTF 18                                                                     | NPT 1/8" | 16 | 44  | 14  |                    |
|      | PBP 03 FTB 14                                                                     | PBP 03 FTO 14                                                                     | PBP 03 FTF 18                                                                     | NPT 1/4" | 15 | 45  | 14  |                    |
| 6    | PBP 06 FMB 18                                                                     | PBP 06 FMO 18                                                                     | PBP 06 FMF 18                                                                     | BSP 1/8" | 26 | 55  | 22  |                    |
|      | PBP 06 FMB 14                                                                     | PBP 06 FMO 14                                                                     | PBP 06 FMF 14                                                                     | BSP 1/4" | 26 | 61  | 22  |                    |
|      | PBP 06 FMB 38                                                                     | PBP 06 FMO 38                                                                     | PBP 06 FMF 38                                                                     | BSP 3/8" | 26 | 61  | 22  |                    |
|      | PBP 06 FMB 12                                                                     | PBP 06 FMO 12                                                                     | PBP 06 FMF 12                                                                     | BSP 1/2" | 26 | 65  | 24  |                    |
|      | PBP 06 FTB 18                                                                     | PBP 06 FTO 18                                                                     | PBP 06 FTF 18                                                                     | NPT 1/8" | 26 | 55  | 22  |                    |
|      | PBP 06 FTB 14                                                                     | PBP 06 FTO 14                                                                     | PBP 06 FTF 14                                                                     | NPT 1/4" | 26 | 61  | 22  |                    |
|      | PBP 06 FTB 38                                                                     | PBP 06 FTO 38                                                                     | PBP 06 FTF 38                                                                     | NPT 3/8" | 26 | 61  | 22  |                    |
|      | PBP 06 FTB 12                                                                     | PBP 06 FTO 12                                                                     | PBP 06 FTF 12                                                                     | NPT 1/2" | 26 | 66  | 24  |                    |
| 8    | PBP 08 FMB 14                                                                     | PBP 08 FMO 14                                                                     | PBP 08 FMF 14                                                                     | BSP 1/4" | 32 | 72  | 27  |                    |
|      | PBP 08 FMB 38                                                                     | PBP 08 FMO 38                                                                     | PBP 08 FMF 38                                                                     | BSP 3/8" | 32 | 72  | 27  |                    |
|      | PBP 08 FMB 12                                                                     | PBP 08 FMO 12                                                                     | PBP 08 FMF 12                                                                     | BSP 1/2" | 32 | 76  | 27  |                    |
|      | PBP 08 FTB 14                                                                     | PBP 08 FTO 14                                                                     | PBP 08 FTF 14                                                                     | NPT 1/4" | 32 | 72  | 27  |                    |
|      | PBP 08 FTB 38                                                                     | PBP 08 FTO 38                                                                     | PBP 08 FTF 38                                                                     | NPT 3/8" | 32 | 72  | 27  |                    |
|      | PBP 08 FTB 12                                                                     | PBP 08 FTO 12                                                                     | PBP 08 FTF 12                                                                     | NPT 1/2" | 32 | 76  | 27  |                    |
| 11   | PBP 11 FMB 38                                                                     | PBP 11 FMO 38                                                                     | PBP 11 FMF 38                                                                     | BSP 3/8" | 38 | 84  | 32  |                    |
|      | PBP 11 FMB 12                                                                     | PBP 11 FMO 12                                                                     | PBP 11 FMF 12                                                                     | BSP 1/2" | 38 | 88  | 32  |                    |
|      | PBP 11 FMB 34                                                                     | PBP 11 FMO 34                                                                     | PBP 11 FMF 34                                                                     | BSP 3/4" | 38 | 91  | 34  |                    |
|      | PBP 11 FTB 38                                                                     | PBP 11 FTO 38                                                                     | PBP 11 FTF 38                                                                     | NPT 3/8" | 38 | 84  | 32  |                    |
|      | PBP 11 FTB 12                                                                     | PBP 11 FTO 12                                                                     | PBP 11 FTF 12                                                                     | NPT 1/2" | 38 | 88  | 32  |                    |
|      | PBP 11 FTB 34                                                                     | PBP 11 FTO 34                                                                     | PBP 11 FTF 34                                                                     | NPT 3/4" | 38 | 91  | 34  |                    |
| 13   | PBP 13 FMB 38                                                                     | PBP 13 FMO 38                                                                     | PBP 13 FMF 38                                                                     | BSP 3/8" | 38 | 84  | 32  |                    |
|      | PBP 13 FMB 12                                                                     | PBP 13 FMO 12                                                                     | PBP 13 FMF 12                                                                     | BSP 1/2" | 38 | 88  | 32  |                    |
|      | PBP 13 FMB 34                                                                     | PBP 13 FMO 34                                                                     | PBP 13 FMF 34                                                                     | BSP 3/4" | 38 | 91  | 34  |                    |
|      | PBP 13 FTB 38                                                                     | PBP 13 FTO 38                                                                     | PBP 13 FTF 38                                                                     | NPT 3/8" | 38 | 84  | 32  |                    |
|      | PBP 13 FTB 12                                                                     | PBP 13 FTO 12                                                                     | PBP 13 FTF 12                                                                     | NPT 1/2" | 38 | 88  | 32  |                    |
|      | PBP 13 FTB 34                                                                     | PBP 13 FTO 34                                                                     | PBP 13 FTF 34                                                                     | NPT 3/4" | 38 | 91  | 34  |                    |
| 16   | PBP 16 FMB 12                                                                     | PBP 16 FMO 12                                                                     | PBP 16 FMF 12                                                                     | BSP 1/2" | 44 | 99  | 38  |                    |
|      | PBP 16 FMB 34                                                                     | PBP 16 FMO 34                                                                     | PBP 16 FMF 34                                                                     | BSP 3/4" | 44 | 101 | 38  |                    |
|      | PBP 16 FTB 12                                                                     | PBP 16 FTO 12                                                                     | PBP 16 FTF 12                                                                     | NPT 1/2" | 44 | 99  | 38  |                    |
|      | PBP 16 FTB 34                                                                     | PBP 16 FTO 34                                                                     | PBP 16 FTF 34                                                                     | NPT 3/4" | 44 | 101 | 38  |                    |
| 19   | PBP 19 FMB 34                                                                     | PBP 19 FMO 34                                                                     | PBP 19 FMF 34                                                                     | BSP 3/4" | 55 | 125 | 46  |                    |
|      | PBP 19 FMB 10                                                                     | PBP 19 FMO 10                                                                     | PBP 19 FMF 10                                                                     | BSP 1"   | 55 | 127 | 46  |                    |
|      | PBP 19 FTB 34                                                                     | PBP 19 FTO 34                                                                     | PBP 19 FTF 34                                                                     | NPT 3/4" | 55 | 125 | 46  |                    |
|      | PBP 19 FTB 10                                                                     | PBP 19 FTO 10                                                                     | PBP 19 FTF 10                                                                     | NPT 1"   | 55 | 127 | 46  |                    |

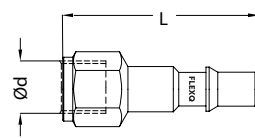


Female thread plug



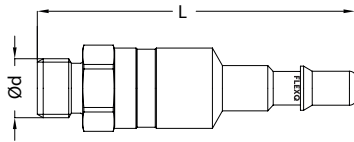
| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBP 03 MFB 18 | BSP 1/8" | 52  | 14  |
|      | PBP 03 MNB 18 | NPT 1/8" | 52  | 14  |
| 6    | PBP 06 MFB 18 | BSP 1/8" | 66  | 17  |
|      | PBP 06 MFB 14 | BSP 1/4" | 73  | 17  |
|      | PBP 06 MFB 38 | BSP 3/8" | 73  | 22  |
|      | PBP 06 MNB 18 | NPT 1/8" | 66  | 17  |
|      | PBP 06 MNB 14 | NPT 1/4" | 73  | 17  |
|      | PBP 06 MNB 38 | NPT 3/8" | 73  | 22  |
| 8    | PBP 08 MFB 14 | BSP 1/4" | 81  | 24  |
|      | PBP 08 MFB 38 | BSP 3/8" | 81  | 24  |
|      | PBP 08 MFB 12 | BSP 1/2" | 83  | 24  |
|      | PBP 08 MNB 14 | NPT 1/4" | 81  | 24  |
|      | PBP 08 MNB 38 | NPT 3/8" | 81  | 24  |
|      | PBP 08 MNB 12 | NPT 1/2" | 83  | 24  |
| 11   | PBP 11 MFB 38 | BSP 3/8" | 91  | 30  |
|      | PBP 11 MFB 12 | BSP 1/2" | 94  | 30  |
|      | PBP 11 MFB 34 | BSP 3/4" | 98  | 34  |
|      | PBP 11 MNB 38 | NPT 3/8" | 91  | 30  |
|      | PBP 11 MNB 12 | NPT 1/2" | 94  | 30  |
|      | PBP 11 MNB 34 | NPT 3/4" | 98  | 34  |
| 13   | PBP 13 MFB 38 | BSP 3/8" | 91  | 30  |
|      | PBP 13 MFB 12 | BSP 1/2" | 94  | 30  |
|      | PBP 13 MFB 34 | BSP 3/4" | 98  | 34  |
|      | PBP 13 MNB 38 | NPT 3/8" | 91  | 30  |
|      | PBP 13 MNB 12 | NPT 1/2" | 94  | 30  |
|      | PBP 13 MNB 34 | NPT 3/4" | 98  | 34  |
| 16   | PBP 16 MFB 12 | BSP 1/2" | 108 | 36  |
|      | PBP 16 MFB 34 | BSP 3/4" | 111 | 36  |
|      | PBP 16 MNB 12 | NPT 1/2" | 108 | 36  |
|      | PBP 16 MNB 34 | NPT 3/4" | 111 | 36  |
| 19   | PBP 19 MFB 34 | BSP 3/4" | 133 | 41  |
|      | PBP 19 MFB 10 | BSP 1"   | 139 | 41  |
|      | PBP 19 MNB 34 | NPT 3/4" | 133 | 41  |
|      | PBP 19 MNB 10 | NPT 1"   | 139 | 41  |

Female thread plug



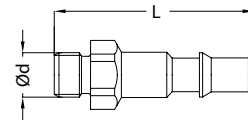
| Size |               | Ød       | L  | HEX |
|------|---------------|----------|----|-----|
| 3    | PBP 03 MFF 18 | BSP 1/8" | 43 | 14  |
|      | PBP 03 MNF 18 | NPT 1/8" | 43 | 14  |
| 6    | PBP 06 MFF 18 | BSP 1/8" | 42 | 14  |
|      | PBP 06 MFF 14 | BSP 1/4" | 47 | 17  |
|      | PBP 06 MFF 38 | BSP 3/8" | 50 | 22  |
|      | PBP 06 MFF 12 | BSP 1/2" | 53 | 27  |
|      | PBP 06 MNF 18 | NPT 1/8" | 42 | 14  |
|      | PBP 06 MNF 14 | NPT 1/4" | 47 | 17  |
|      | PBP 06 MNF 38 | NPT 3/8" | 50 | 22  |
|      | PBP 06 MNF 12 | NPT 1/2" | 53 | 27  |
| 8    | PBP 08 MFF 14 | BSP 1/4" | 56 | 24  |
|      | PBP 08 MFF 38 | BSP 3/8" | 58 | 24  |
|      | PBP 08 MFF 12 | BSP 1/2" | 59 | 24  |
|      | PBP 08 MNF 14 | NPT 1/4" | 56 | 24  |
|      | PBP 08 MNF 38 | NPT 3/8" | 58 | 24  |
|      | PBP 08 MNF 12 | NPT 1/2" | 60 | 24  |
| 11   | PBP 11 MFF 38 | BSP 3/8" | 62 | 22  |
|      | PBP 11 MFF 12 | BSP 1/2" | 66 | 27  |
|      | PBP 11 MFF 34 | BSP 3/4" | 69 | 32  |
|      | PBP 11 MNF 38 | NPT 3/8" | 62 | 22  |
|      | PBP 11 MNF 12 | NPT 1/2" | 66 | 27  |
|      | PBP 11 MNF 34 | NPT 3/4" | 69 | 32  |
| 13   | PBP 13 MFF 38 | BSP 3/8" | 62 | 22  |
|      | PBP 13 MFF 12 | BSP 1/2" | 66 | 27  |
|      | PBP 13 MFF 34 | BSP 3/4" | 69 | 32  |
|      | PBP 13 MNF 38 | NPT 3/8" | 62 | 22  |
|      | PBP 13 MNF 12 | NPT 1/2" | 66 | 27  |
|      | PBP 13 MNF 34 | NPT 3/4" | 69 | 32  |
| 16   | PBP 16 MFF 12 | BSP 1/2" | 69 | 27  |
|      | PBP 16 MFF 34 | BSP 3/4" | 72 | 32  |
|      | PBP 16 MNF 12 | NPT 1/2" | 69 | 27  |
|      | PBP 16 MNF 34 | NPT 3/4" | 72 | 32  |
| 19   | PBP 19 MFF 34 | BSP 3/4" | 89 | 36  |
|      | PBP 19 MFF 10 | BSP 1"   | 94 | 41  |
|      | PBP 19 MNF 34 | NPT 3/4" | 89 | 36  |
|      | PBP 19 MNF 10 | NPT 1"   | 94 | 41  |

Male thread plug



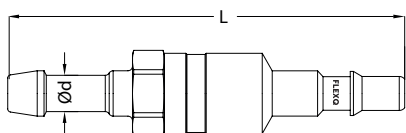
| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBP 03 MMB 18 | BSP 1/8" | 51  | 14  |
|      | PBP 03 MMB 14 | BSP 1/4" | 54  | 14  |
|      | PBP 03 MTB 18 | NPT 1/8" | 51  | 14  |
|      | PBP 03 MTB 14 | NPT 1/4" | 54  | 14  |
| 6    | PBP 06 MMB 18 | BSP 1/8" | 68  | 14  |
|      | PBP 06 MMB 14 | BSP 1/4" | 70  | 14  |
|      | PBP 06 MMB 38 | BSP 3/8" | 72  | 19  |
|      | PBP 06 MTB 18 | NPT 1/8" | 68  | 14  |
|      | PBP 06 MTB 14 | NPT 1/4" | 70  | 14  |
|      | PBP 06 MTB 38 | NPT 3/8" | 73  | 19  |
| 8    | PBP 08 MMB 14 | BSP 1/4" | 83  | 24  |
|      | PBP 08 MMB 38 | BSP 3/8" | 84  | 24  |
|      | PBP 08 MMB 12 | BSP 1/2" | 86  | 24  |
|      | PBP 08 MTB 14 | NPT 1/4" | 86  | 24  |
|      | PBP 08 MTB 38 | NPT 3/8" | 84  | 24  |
|      | PBP 08 MTB 12 | NPT 1/2" | 87  | 24  |
| 11   | PBP 11 MMB 38 | BSP 3/8" | 95  | 30  |
|      | PBP 11 MMB 12 | BSP 1/2" | 96  | 30  |
|      | PBP 11 MMB 34 | BSP 3/4" | 100 | 30  |
|      | PBP 11 MTB 38 | NPT 3/8" | 97  | 30  |
|      | PBP 11 MTB 12 | NPT 1/2" | 98  | 30  |
|      | PBP 11 MTB 34 | NPT 3/4" | 102 | 30  |
| 13   | PBP 13 MMB 38 | BSP 3/8" | 95  | 30  |
|      | PBP 13 MMB 12 | BSP 1/2" | 96  | 30  |
|      | PBP 13 MMB 34 | BSP 3/4" | 100 | 34  |
|      | PBP 13 MTB 38 | NPT 3/8" | 97  | 30  |
|      | PBP 13 MTB 12 | NPT 1/2" | 98  | 30  |
|      | PBP 13 MTB 34 | NPT 3/4" | 102 | 30  |
| 16   | PBP 16 MFB 12 | BSP 1/2" | 118 | 36  |
|      | PBP 16 MFB 34 | BSP 3/4" | 120 | 36  |
|      | PBP 16 MNB 12 | NPT 1/2" | 119 | 36  |
|      | PBP 16 MNB 34 | NPT 3/4" | 121 | 36  |
| 19   | PBP 19 MFB 34 | BSP 3/4" | 135 | 41  |
|      | PBP 19 MFB 10 | BSP 1"   | 139 | 41  |
|      | PBP 19 MNB 34 | NPT 3/4" | 136 | 41  |
|      | PBP 19 MNB 10 | NPT 1"   | 141 | 41  |

Male thread plug



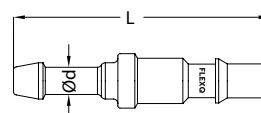
| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBP 03 MMF 18 | BSP 1/8" | 38  | 14  |
|      | PBP 03 MMF 14 | BSP 1/4" | 30  | 14  |
|      | PBP 03 MTF 18 | NPT 1/8" | 38  | 14  |
|      | PBP 03 MTF 14 | NPT 1/4" | 41  | 14  |
| 6    | PBP 06 MMF 18 | BSP 1/8" | 44  | 14  |
|      | PBP 06 MMF 14 | BSP 1/4" | 48  | 14  |
|      | PBP 06 MMF 38 | BSP 3/8" | 52  | 19  |
|      | PBP 06 MMF 12 | BSP 1/2" | 55  | 24  |
|      | PBP 06 MTF 18 | NPT 1/8" | 45  | 14  |
|      | PBP 06 MTF 14 | NPT 1/4" | 47  | 14  |
|      | PBP 06 MTF 38 | NPT 3/8" | 53  | 19  |
|      | PBP 06 MTF 12 | NPT 1/2" | 54  | 24  |
| 8    | PBP 08 MMF 14 | BSP 1/4" | 55  | 17  |
|      | PBP 08 MMF 38 | BSP 3/8" | 57  | 19  |
|      | PBP 08 MMF 12 | BSP 1/2" | 60  | 24  |
|      | PBP 08 MTF 14 | NPT 1/4" | 56  | 17  |
|      | PBP 08 MTF 38 | NPT 3/8" | 57  | 19  |
|      | PBP 08 MTF 12 | NPT 1/2" | 64  | 24  |
|      | PBP 08 MTF 34 | NPT 3/4" | 71  | 30  |
| 11   | PBP 11 MMF 38 | BSP 3/8" | 65  | 19  |
|      | PBP 11 MMF 12 | BSP 1/2" | 68  | 24  |
|      | PBP 11 MMF 34 | BSP 3/4" | 70  | 30  |
|      | PBP 11 MTF 38 | NPT 3/8" | 66  | 19  |
|      | PBP 11 MTF 12 | NPT 1/2" | 69  | 24  |
|      | PBP 11 MTF 34 | NPT 3/4" | 71  | 30  |
| 13   | PBP 13 MMF 38 | BSP 3/8" | 65  | 9   |
|      | PBP 13 MMF 12 | BSP 1/2" | 68  | 24  |
|      | PBP 13 MMF 34 | BSP 3/4" | 70  | 30  |
|      | PBP 13 MTF 38 | NPT 3/8" | 66  | 19  |
|      | PBP 13 MTF 12 | NPT 1/2" | 69  | 24  |
|      | PBP 13 MTF 34 | NPT 3/4" | 71  | 30  |
| 16   | PBP 16 MMF 12 | BSP 1/2" | 73  | 24  |
|      | PBP 16 MMF 34 | BSP 3/4" | 76  | 30  |
|      | PBP 16 MMF 12 | NPT 1/2" | 74  | 24  |
|      | PBP 16 MMF 34 | NPT 3/4" | 77  | 30  |
| 19   | PBP 19 MMF 34 | BSP 3/4" | 95  | 36  |
|      | PBP 19 MMF 10 | BSP 1"   | 100 | 36  |
|      | PBP 19 MTF 34 | NPT 3/4" | 96  | 36  |
|      | PBP 19 MTF 10 | NPT 1"   | 105 | 36  |

Standard hose tail plug



| Size |               | Ød    | L   | HEX |
|------|---------------|-------|-----|-----|
| 3    | PBP 03 MHB 04 | 4 mm  | 65  | 14  |
|      | PBP 03 MHB 06 | 6 mm  | 65  | 14  |
| 6    | PBP 06 MHB 04 | 4 mm  | 87  | 17  |
|      | PBP 06 MHB 06 | 6 mm  | 87  | 17  |
|      | PBP 06 MHB 08 | 8 mm  | 87  | 17  |
|      | PBP 06 MHB 10 | 10 mm | 87  | 17  |
|      | PBP 06 MNB 13 | 13 mm | 89  | 17  |
| 8    | PBP 08 MHB 06 | 6 mm  | 98  | 24  |
|      | PBP 08 MHB 08 | 8 mm  | 98  | 24  |
|      | PBP 08 MHB 10 | 10 mm | 98  | 24  |
|      | PBP 08 MHB 13 | 13 mm | 100 | 24  |
|      | PBP 08 MHB 16 | 16 mm | 102 | 24  |
| 11   | PBP 11 MHB 08 | 8 mm  | 100 | 30  |
|      | PBP 11 MHB 10 | 10 mm | 100 | 30  |
|      | PBP 11 MHB 13 | 13 mm | 102 | 30  |
|      | PBP 11 MHB 16 | 16 mm | 102 | 30  |
|      | PBP 11 MHB 19 | 19 mm | 120 | 33  |
| 13   | PBP 13 MHB 08 | 8 mm  | 100 | 30  |
|      | PBP 13 MHB 10 | 10 mm | 100 | 30  |
|      | PBP 13 MHB 13 | 13 mm | 102 | 30  |
|      | PBP 13 MHB 16 | 16 mm | 102 | 30  |
|      | PBP 13 MHB 19 | 19 mm | 120 | 33  |
| 16   | PBP 16 MHB 10 | 10 mm | 151 | 36  |
|      | PBP 16 MHB 13 | 13 mm | 153 | 36  |
|      | PBP 16 MHB 16 | 16 mm | 153 | 36  |
|      | PBP 16 MHB 19 | 19 mm | 160 | 36  |
| 19   | PBP 19 MHB 19 | 19 mm | 190 | 41  |
|      | PBP 19 MHB 25 | 25 mm | 195 | 41  |

Standard hose tail plug



| Size |               | Ød    | L   |
|------|---------------|-------|-----|
| 3    | PBP 03 MHF 04 | 4 mm  | 48  |
|      | PBP 03 MHF 06 | 6 mm  | 48  |
| 6    | PBP 06 MHF 04 | 4 mm  | 62  |
|      | PBP 06 MHF 06 | 6 mm  | 62  |
|      | PBP 06 MHF 08 | 8 mm  | 62  |
|      | PBP 06 MHF 10 | 10 mm | 62  |
|      | PBP 06 MHF 13 | 13 mm | 64  |
| 8    | PBP 08 MHF 06 | 6 mm  | 66  |
|      | PBP 08 MHF 08 | 8 mm  | 66  |
|      | PBP 08 MHF 10 | 10 mm | 66  |
|      | PBP 08 MHF 13 | 13 mm | 66  |
|      | PBP 08 MHF 16 | 16 mm | 70  |
| 11   | PBP 11 MHF 08 | 8 mm  | 70  |
|      | PBP 11 MHF 10 | 10 mm | 70  |
|      | PBP 11 MHF 13 | 13 mm | 72  |
|      | PBP 11 MHF 16 | 16 mm | 74  |
|      | PBP 11 MHF 19 | 19 mm | 80  |
| 13   | PBP 13 MHF 08 | 8 mm  | 70  |
|      | PBP 13 MHF 10 | 10 mm | 70  |
|      | PBP 13 MHF 13 | 13 mm | 72  |
|      | PBP 13 MHF 16 | 16 mm | 74  |
|      | PBP 13 MHF 19 | 19 mm | 80  |
| 16   | PBP 16 MHF 10 | 10 mm | 91  |
|      | PBP 16 MHF 13 | 13 mm | 91  |
|      | PBP 16 MHF 16 | 16 mm | 96  |
|      | PBP 16 MHF 19 | 19 mm | 104 |
| 19   | PBP 19 MHF 19 | 19 mm | 150 |
|      | PBP 19 MHF 25 | 25 mm | 152 |

# FLEXQ

■ MONOCOUPPLINGS FOR PNEUMATICS / SERIES PBP



### SERIE PBW

FLUIDS

Push button

Options

- Colour coding
- Raised push button
- Fixing ring

R / B  
ED  
BO

Applications

- Fluids
- Chemicals
- Cooling and heating
- Vacuum



Materials

|                 |                        |
|-----------------|------------------------|
| Body Socket     | Stainless st. AISI 303 |
| Socket backpart | Stainless steel        |
| Plug            | Stainless steel        |
| Button          | AISI 420 chrome pl.    |
| Valve           | Stainless steel        |
| Spring          | Stainless steel        |
| Seals           | NBR (N)                |



Temperature range

|                                            |     |                |
|--------------------------------------------|-----|----------------|
| Nitrile (NBR)                              | N   | -15 °C +100 °C |
| Fluorocarbon (FPM)                         | V   | -20 °C +200 °C |
| High temperature fluorocarbon (FPM)        | HTO | -20 °C +230 °C |
| Ethylene propylene (EPDM)                  | E   | -20 °C +150 °C |
| High temperature ethylene propylene (EPDM) | HTW | -20 °C +180 °C |
| Perfluoroelastomer (FFKM)                  | W   | -15 °C +270 °C |
| Fluoro-silicones (FMQ)                     | Q   | -45 °C +175 °C |

Always make sure that no medium is flowing before disconnecting

PBW 03 PBW 06 PBW 08 PBW 11 PBW 13 PBW16 PBW 19



Flow Size

3 6 8 11 13 16 19



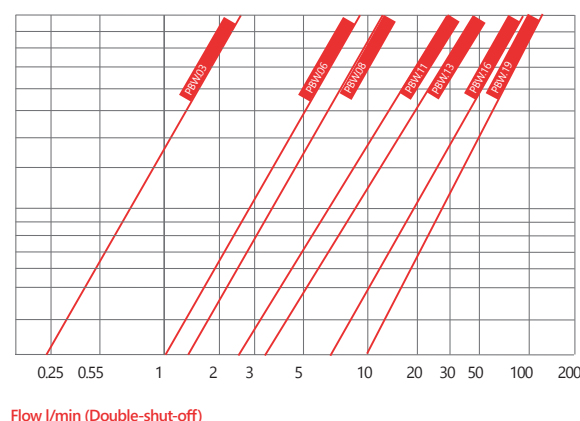
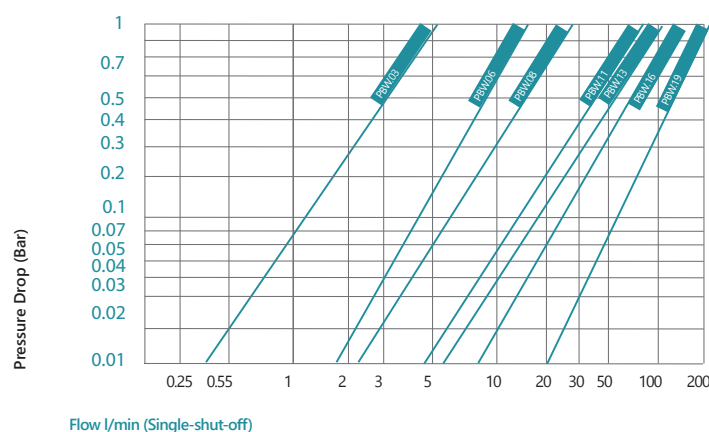
Pressure

50 50 50 50 50 50 50

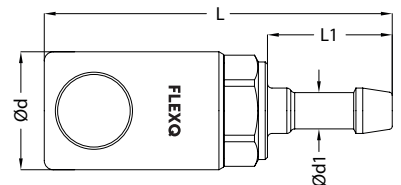
FLEXQ

Series PBW - Flow Rate vs Pressure Drop Graph

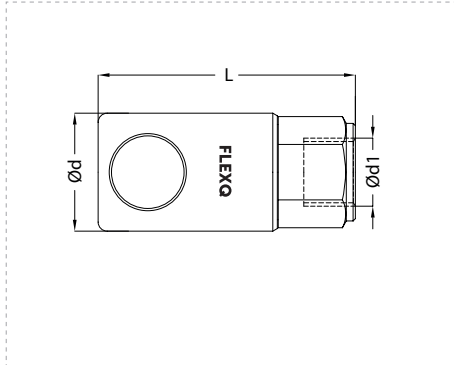
Hydraulic Flow-Chart



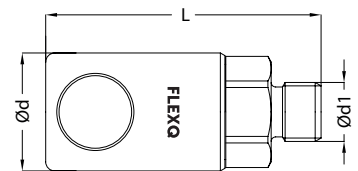
| Size |  |  |  | Ød1   | Ød | L   | L1 | HEX | Standard hose tail socket |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|----|-----|----|-----|---------------------------|
| 3    | PBW 03 FHB 04                                                                     | PBW 03 FHO 04                                                                     | PBW 03 FHF 04                                                                     | 4 mm  | 16 | 52  | 18 | 14  |                           |
|      | PBW 03 FHB 06                                                                     | PBW 03 FHO 06                                                                     | PBW 03 FHF 06                                                                     | 6 mm  | 16 | 52  | 18 | 14  |                           |
| 6    | PBW 06 FHB 06                                                                     | PBW 06 FHO 06                                                                     | PBW 06 FHF 06                                                                     | 6 mm  | 26 | 69  | 23 | 22  |                           |
|      | PBW 06 FHB 08                                                                     | PBW 06 FHO 08                                                                     | PBW 06 FHF 08                                                                     | 8 mm  | 26 | 69  | 23 | 22  |                           |
|      | PBW 06 FHB 10                                                                     | PBW 06 FHO 10                                                                     | PBW 06 FHF 10                                                                     | 10 mm | 26 | 69  | 23 | 22  |                           |
|      | PBW 06 FHB 13                                                                     | PBW 06 FHO 13                                                                     | PBW 06 FHF 13                                                                     | 13mm  | 26 | 73  | 25 | 22  |                           |
| 8    | PBW 08 FHB 06                                                                     | PBW 08 FHO 06                                                                     | PBW 08 FHF 06                                                                     | 6 mm  | 32 | 81  | 23 | 27  |                           |
|      | PBW 08 FHB 08                                                                     | PBW 08 FHO 08                                                                     | PBW 08 FHF 08                                                                     | 8 mm  | 32 | 81  | 23 | 27  |                           |
|      | PBW 08 FHB 10                                                                     | PBW 08 FHO 10                                                                     | PBW 08 FHF 10                                                                     | 10 mm | 32 | 81  | 23 | 27  |                           |
|      | PBW 08 FHB 13                                                                     | PBW 08 FHO 13                                                                     | PBW 08 FHF 13                                                                     | 13mm  | 32 | 84  | 26 | 27  |                           |
| 11   | PBW 11 FHB 08                                                                     | PBW 11 FHO 08                                                                     | PBW 11 FHF 08                                                                     | 8 mm  | 38 | 92  | 23 | 32  |                           |
|      | PBW 11 FHB 10                                                                     | PBW 11 FHO 10                                                                     | PBW 11 FHF 10                                                                     | 10 mm | 38 | 92  | 23 | 32  |                           |
|      | PBW 11 FHB 13                                                                     | PBW 11 FHO 13                                                                     | PBW 11 FHF 13                                                                     | 13 mm | 38 | 94  | 26 | 32  |                           |
|      | PBW 11 FHB 16                                                                     | PBW 11 FHO 16                                                                     | PBW 11 FHF 16                                                                     | 16mm  | 38 | 94  | 26 | 32  |                           |
| 13   | PBW 13 FHB 10                                                                     | PBW 13 FHO 10                                                                     | PBW 13 FHF 10                                                                     | 10 mm | 38 | 92  | 23 | 32  |                           |
|      | PBW 13 FHB 13                                                                     | PBW 13 FHO 13                                                                     | PBW 13 FHF 13                                                                     | 13 mm | 38 | 94  | 26 | 32  |                           |
|      | PBW 13 FHB 16                                                                     | PBW 13 FHO 16                                                                     | PBW 13 FHF 16                                                                     | 16 mm | 38 | 94  | 26 | 32  |                           |
|      | PBW 13 FHB 19                                                                     | PBW 13 FHO 19                                                                     | PBW 13 FHF 19                                                                     | 19 mm | 38 | 99  | 33 | 32  |                           |
| 16   | PBW 16 FHB 10                                                                     | PBW 16 FHO 10                                                                     | PBW 16 FHF 10                                                                     | 10 mm | 44 | 101 | 23 | 38  |                           |
|      | PBW 16 FHB 13                                                                     | PBW 16 FHO 13                                                                     | PBW 16 FHF 13                                                                     | 13 mm | 44 | 104 | 26 | 38  |                           |
|      | PBW 16 FHB 16                                                                     | PBW 16 FHO 16                                                                     | PBW 16 FHF 16                                                                     | 16 mm | 44 | 104 | 26 | 38  |                           |
|      | PBW 16 FHB 19                                                                     | PBW 16 FHO 19                                                                     | PBW 16 FHF 19                                                                     | 19 mm | 44 | 101 | 33 | 38  |                           |
| 19   | PBW 19 FHB 19                                                                     | PBW 19 FHO 19                                                                     | PBW 19 FHF 19                                                                     | 19 mm | 55 | 125 | 37 | 46  |                           |
|      | PBW 19 FHB 25                                                                     | PBW 19 FHO 25                                                                     | PBW 19 FHF 25                                                                     | 25 mm | 55 | 140 | 50 | 46  |                           |



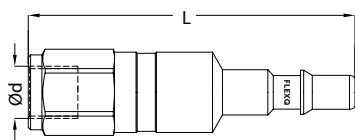
|  |  |   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
|  |  | ✓ |
|  |  | ✓ |
|  |  | ✗ |
|  |  | ✓ |
|  |  | ✗ |
|  |  | ✓ |

| Female thread socket                                                              |    |  Size |  |  |  | Ød1 | Ød  | L  | HEX |
|-----------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|----|-----|
|  | 3  | PBW 03 FFB 18                                                                          | PBW 03 FFO 18                                                                     | PBW 03 FFF 18                                                                     | BSP 1/8"                                                                            | 16  | 43  | 14 |     |
|                                                                                   |    | PBW 03 FNB 18                                                                          | PBW 03 FNO 18                                                                     | PBW 03 FNF                                                                        | NPT 1/8"                                                                            | 16  | 43  | 14 |     |
|                                                                                   | 6  | PBW 06 FFB 18                                                                          | PBW 06 FFO 18                                                                     | PBW 06 FFF 18                                                                     | BSP 1/8"                                                                            | 26  | 53  | 22 |     |
|                                                                                   |    | PBW 06 FFB 14                                                                          | PBW 06 FFO 14                                                                     | PBW 06 FFF 14                                                                     | BSP 1/4"                                                                            | 26  | 53  | 22 |     |
|                                                                                   |    | PBW 06 FFB 38                                                                          | PBW 06 FFO 38                                                                     | PBW 06 FFF 38                                                                     | BSP 3/8"                                                                            | 26  | 57  | 22 |     |
|                                                                                   |    | PBW 06 FFB 12                                                                          | PBW 06 FFO 12                                                                     | PBW 06 FFF 12                                                                     | BSP 1/2"                                                                            | 26  | 61  | 24 |     |
|                                                                                   |    | PBW 06 FNB 18                                                                          | PBW 06 FNO 18                                                                     | PBW 06 FNF 18                                                                     | NPT 1/8"                                                                            | 26  | 53  | 22 |     |
|                                                                                   |    | PBW 06 FNB 14                                                                          | PBW 06 FNO 14                                                                     | PBW 06 FNF 14                                                                     | NPT 1/4"                                                                            | 26  | 53  | 22 |     |
|                                                                                   |    | PBW 06 FNB 38                                                                          | PBW 06 FNO 38                                                                     | PBW 06 FNF 38                                                                     | NPT 3/8"                                                                            | 26  | 57  | 22 |     |
|                                                                                   |    | PBW 06 FNB 12                                                                          | PBW 06 FNO 12                                                                     | PBW 06 FNF 12                                                                     | NPT 1/2"                                                                            | 26  | 61  | 24 |     |
|                                                                                   | 8  | PBW 08 FFB 14                                                                          | PBW 08 FFO 14                                                                     | PBW 08 FFF 14                                                                     | BSP 1/4"                                                                            | 32  | 66  | 27 |     |
|                                                                                   |    | PBW 08 FFB 38                                                                          | PBW 08 FFO 38                                                                     | PBW 08 FFF 38                                                                     | BSP 3/8"                                                                            | 32  | 66  | 27 |     |
|                                                                                   |    | PBW 08 FFB 12                                                                          | PBW 08 FFO 12                                                                     | PBW 08 FFF 12                                                                     | BSP 1/2"                                                                            | 32  | 74  | 27 |     |
|                                                                                   |    | PBW 08 FNB 14                                                                          | PBW 08 FNO 14                                                                     | PBW 08 FNF 14                                                                     | NPT 1/4"                                                                            | 32  | 66  | 27 |     |
|                                                                                   |    | PBW 08 FNB 38                                                                          | PBW 08 FNO 38                                                                     | PBW 08 FNF 38                                                                     | NPT 3/8"                                                                            | 32  | 66  | 27 |     |
|                                                                                   |    | PBW 08 FNB 12                                                                          | PBW 08 FNO 12                                                                     | PBW 08 FNF 12                                                                     | NPT 1/2"                                                                            | 32  | 74  | 27 |     |
|                                                                                   | 11 | PBW 11 FFB 38                                                                          | PBW 11 FFO 38                                                                     | PBW 11 FFF 38                                                                     | BSP 3/8"                                                                            | 38  | 76  | 32 |     |
|                                                                                   |    | PBW 11 FFB 12                                                                          | PBW 11 FFO 12                                                                     | PBW 11 FFF 12                                                                     | BSP 1/2"                                                                            | 38  | 78  | 32 |     |
|                                                                                   |    | PBW 11 FFB 34                                                                          | PBW 11 FFO 34                                                                     | PBW 11 FFF 34                                                                     | BSP 3/4"                                                                            | 38  | 85  | 34 |     |
|                                                                                   |    | PBW 11 FNB 38                                                                          | PBW 11 FNO 38                                                                     | PBW 11 FNF 38                                                                     | NPT 3/8"                                                                            | 38  | 76  | 32 |     |
|                                                                                   |    | PBW 11 FNB 12                                                                          | PBW 11 FNO 12                                                                     | PBW 11 FNF 12                                                                     | NPT 1/2"                                                                            | 38  | 78  | 32 |     |
|                                                                                   |    | PBW 11 FNB 34                                                                          | PBW 11 FNO 34                                                                     | PBW 11 FNF 34                                                                     | NPT 3/4"                                                                            | 38  | 85  | 34 |     |
|                                                                                   | 13 | PBW 13 FFB 38                                                                          | PBW 13 FFO 38                                                                     | PBW 13 FFF 38                                                                     | BSP 3/8"                                                                            | 38  | 76  | 32 |     |
|                                                                                   |    | PBW 13 FFB 12                                                                          | PBW 13 FFO 12                                                                     | PBW 13 FFF 12                                                                     | BSP 1/2"                                                                            | 38  | 78  | 32 |     |
|                                                                                   |    | PBW 13 FFB 34                                                                          | PBW 13 FFO 34                                                                     | PBW 13 FFF 34                                                                     | BSP 3/4"                                                                            | 38  | 85  | 34 |     |
|                                                                                   |    | PBW 13 FNB 38                                                                          | PBW 13 FNO 38                                                                     | PBW 13 FNF 38                                                                     | NPT 3/8"                                                                            | 38  | 76  | 32 |     |
|                                                                                   |    | PBW 13 FNB 12                                                                          | PBW 13 FNO 12                                                                     | PBW 13 FNF 12                                                                     | NPT 1/2"                                                                            | 38  | 78  | 32 |     |
|                                                                                   |    | PBW 13 FNB 34                                                                          | PBW 13 FNO 34                                                                     | PBW 13 FNF 34                                                                     | NPT 3/4"                                                                            | 38  | 85  | 34 |     |
|                                                                                   | 16 | PBW 16 FFB 12                                                                          | PBW 16 FFO 12                                                                     | PBW 16 FFF 12                                                                     | BSP 1/2"                                                                            | 44  | 93  | 32 |     |
|                                                                                   |    | PBW 16 FFB 34                                                                          | PBW 16 FFO 34                                                                     | PBW 16 FFF 34                                                                     | BSP 3/4"                                                                            | 44  | 98  | 32 |     |
|                                                                                   |    | PBW 16 FNB 12                                                                          | PBW 16 FNO 12                                                                     | PBW 16 FNF 12                                                                     | NPT 1/2"                                                                            | 44  | 93  | 34 |     |
|                                                                                   |    | PBW 16 FNB 34                                                                          | PBW 16 FNO 34                                                                     | PBW 16 FNF 34                                                                     | NPT 3/4"                                                                            | 44  | 98  | 32 |     |
|                                                                                   | 19 | PBW 19 FFB 34                                                                          | PBW 19 FFO 34                                                                     | PBW 19 FFF 34                                                                     | BSP 3/4"                                                                            | 55  | 115 | 46 |     |
|                                                                                   |    | PBW 19 FFB 10                                                                          | PBW 19 FFO 10                                                                     | PBW 19 FFF 10                                                                     | BSP 1"                                                                              | 55  | 115 | 46 |     |
|                                                                                   |    | PBW 19 FNB 34                                                                          | PBW 19 FNO 34                                                                     | PBW 19 FNF 34                                                                     | NPT 3/4"                                                                            | 55  | 115 | 46 |     |
|                                                                                   |    | PBW 19 FNB 10                                                                          | PBW 19 FNO 10                                                                     | PBW 19 FNF 10                                                                     | NPT 1"                                                                              | 55  | 115 | 46 |     |

| Size |  |  |  | Ød1      | Ød | L   | HEX | Male thread socket |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|----|-----|-----|--------------------|
| 3    | PBW 03 FMB 18                                                                     | PBW 03 FMO 18                                                                     | PBW 03 FMF 18                                                                     | BSP 1/8" | 16 | 43  | 14  |                    |
|      | PBW 03 FMB 14                                                                     | PBW 03 FMO 14                                                                     | PBW 03 FMF 18                                                                     | BSP 1/4" | 16 | 45  | 14  |                    |
|      | PBW 03 FTB 18                                                                     | PBW 03 FTO 18                                                                     | PBW 03 FTF 18                                                                     | NPT 1/8" | 16 | 44  | 14  |                    |
|      | PBW 03 FTB 14                                                                     | PBW 03 FTO 14                                                                     | PBW 03 FTF 18                                                                     | NPT 1/4" | 15 | 45  | 14  |                    |
| 6    | PBW 06 FMB 18                                                                     | PBW 06 FMO 18                                                                     | PBW 06 FMF 18                                                                     | BSP 1/8" | 26 | 55  | 22  |                    |
|      | PBW 06 FMB 14                                                                     | PBW 06 FMO 14                                                                     | PBW 06 FMF 14                                                                     | BSP 1/4" | 26 | 61  | 22  |                    |
|      | PBW 06 FMB 38                                                                     | PBW 06 FMO 38                                                                     | PBW 06 FMF 38                                                                     | BSP 3/8" | 26 | 61  | 22  |                    |
|      | PBW 06 FMB 12                                                                     | PBW 06 FMO 12                                                                     | PBW 06 FMF 12                                                                     | BSP 1/2" | 26 | 65  | 24  |                    |
|      | PBW 06 FTB 18                                                                     | PBW 06 FTO 18                                                                     | PBW 06 FTF 18                                                                     | NPT 1/8" | 26 | 55  | 22  |                    |
|      | PBW 06 FTB 14                                                                     | PBW 06 FTO 14                                                                     | PBW 06 FTF 14                                                                     | NPT 1/4" | 26 | 61  | 22  |                    |
|      | PBW 06 FTB 38                                                                     | PBW 06 FTO 38                                                                     | PBW 06 FTF 38                                                                     | NPT 3/8" | 26 | 61  | 22  |                    |
|      | PBW 06 FTB 12                                                                     | PBW 06 FTO 12                                                                     | PBW 06 FTF 12                                                                     | NPT 1/2" | 26 | 66  | 24  |                    |
| 8    | PBW 08 FMB 14                                                                     | PBW 08 FMO 14                                                                     | PBW 08 FMF 14                                                                     | BSP 1/4" | 32 | 72  | 27  |                    |
|      | PBW 08 FMB 38                                                                     | PBW 08 FMO 38                                                                     | PBW 08 FMF 38                                                                     | BSP 3/8" | 32 | 72  | 27  |                    |
|      | PBW 08 FMB 12                                                                     | PBW 08 FMO 12                                                                     | PBW 08 FMF 12                                                                     | BSP 1/2" | 32 | 76  | 27  |                    |
|      | PBW 08 FTB 14                                                                     | PBW 08 FTO 14                                                                     | PBW 08 FTF 14                                                                     | NPT 1/4" | 32 | 72  | 27  |                    |
|      | PBW 08 FTB 38                                                                     | PBW 08 FTO 38                                                                     | PBW 08 FTF 38                                                                     | NPT 3/8" | 32 | 72  | 27  |                    |
|      | PBW 08 FTB 12                                                                     | PBW 08 FTO 12                                                                     | PBW 08 FTF 12                                                                     | NPT 1/2" | 32 | 76  | 27  |                    |
| 11   | PBW 11 FMB 38                                                                     | PBW 11 FMO 38                                                                     | PBW 11 FMF 38                                                                     | BSP 3/8" | 38 | 84  | 32  |                    |
|      | PBW 11 FMB 12                                                                     | PBW 11 FMO 12                                                                     | PBW 11 FMF 12                                                                     | BSP 1/2" | 38 | 88  | 32  |                    |
|      | PBW 11 FMB 34                                                                     | PBW 11 FMO 34                                                                     | PBW 11 FMF 34                                                                     | BSP 3/4" | 38 | 91  | 34  |                    |
|      | PBW 11 FTB 38                                                                     | PBW 11 FTO 38                                                                     | PBW 11 FTF 38                                                                     | NPT 3/8" | 38 | 84  | 32  |                    |
|      | PBW 11 FTB 12                                                                     | PBW 11 FTO 12                                                                     | PBW 11 FTF 12                                                                     | NPT 1/2" | 38 | 88  | 32  |                    |
|      | PBW 11 FTB 34                                                                     | PBW 11 FTO 34                                                                     | PBW 11 FTF 34                                                                     | NPT 3/4" | 38 | 91  | 34  |                    |
| 13   | PBW 13 FMB 38                                                                     | PBW 13 FMO 38                                                                     | PBW 13 FMF 38                                                                     | BSP 3/8" | 38 | 84  | 32  |                    |
|      | PBW 13 FMB 12                                                                     | PBW 13 FMO 12                                                                     | PBW 13 FMF 12                                                                     | BSP 1/2" | 38 | 88  | 32  |                    |
|      | PBW 13 FMB 34                                                                     | PBW 13 FMO 34                                                                     | PBW 13 FMF 34                                                                     | BSP 3/4" | 38 | 91  | 34  |                    |
|      | PBW 13 FTB 38                                                                     | PBW 13 FTO 38                                                                     | PBW 13 FTF 38                                                                     | NPT 3/8" | 38 | 84  | 32  |                    |
|      | PBW 13 FTB 12                                                                     | PBW 13 FTO 12                                                                     | PBW 13 FTF 12                                                                     | NPT 1/2" | 38 | 88  | 32  |                    |
|      | PBW 13 FTB 34                                                                     | PBW 13 FTO 34                                                                     | PBW 13 FTF 34                                                                     | NPT 3/4" | 38 | 91  | 34  |                    |
| 16   | PBW 16 FMB 12                                                                     | PBW 16 FMO 12                                                                     | PBW 16 FMF 12                                                                     | BSP 1/2" | 44 | 99  | 38  |                    |
|      | PBW 16 FMB 34                                                                     | PBW 16 FMO 34                                                                     | PBW 16 FMF 34                                                                     | BSP 3/4" | 44 | 101 | 38  |                    |
|      | PBW 16 FTB 12                                                                     | PBW 16 FTO 12                                                                     | PBW 16 FTF 12                                                                     | NPT 1/2" | 44 | 99  | 38  |                    |
|      | PBW 16 FTB 34                                                                     | PBW 16 FTO 34                                                                     | PBW 16 FTF 34                                                                     | NPT 3/4" | 44 | 101 | 38  |                    |
| 19   | PBW 19 FMB 34                                                                     | PBW 19 FMO 34                                                                     | PBW 19 FMF 34                                                                     | BSP 3/4" | 55 | 125 | 46  |                    |
|      | PBW 19 FMB 10                                                                     | PBW 19 FMO 10                                                                     | PBW 19 FMF 10                                                                     | BSP 1"   | 55 | 127 | 46  |                    |
|      | PBW 19 FTB 34                                                                     | PBW 19 FTO 34                                                                     | PBW 19 FTF 34                                                                     | NPT 3/4" | 55 | 125 | 46  |                    |
|      | PBW 19 FTB 10                                                                     | PBW 19 FTO 10                                                                     | PBW 19 FTF 10                                                                     | NPT 1"   | 55 | 127 | 46  |                    |

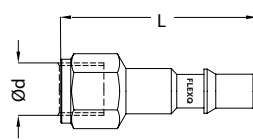


Female thread plug



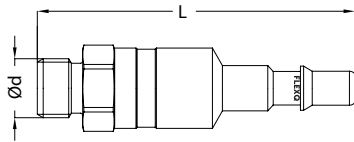
| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBW 03 MFB 18 | BSP 1/8" | 52  | 14  |
|      | PBW 03 MNB 18 | NPT 1/8" | 52  | 14  |
| 6    | PBW 06 MFB 18 | BSP 1/8" | 66  | 17  |
|      | PBW 06 MFB 14 | BSP 1/4" | 73  | 17  |
|      | PBW 06 MFB 38 | BSP 3/8" | 73  | 22  |
|      | PBW 06 MNB 18 | NPT 1/8" | 66  | 17  |
|      | PBW 06 MNB 14 | NPT 1/4" | 73  | 17  |
|      | PBW 06 MNB 38 | NPT 3/8" | 73  | 22  |
| 8    | PBW 08 MFB 14 | BSP 1/4" | 81  | 24  |
|      | PBW 08 MFB 38 | BSP 3/8" | 81  | 24  |
|      | PBW 08 MFB 12 | BSP 1/2" | 83  | 24  |
|      | PBW 08 MNB 14 | NPT 1/4" | 81  | 24  |
|      | PBW 08 MNB 38 | NPT 3/8" | 81  | 24  |
|      | PBW 08 MNB 12 | NPT 1/2" | 83  | 24  |
| 11   | PBW 11 MFB 38 | BSP 3/8" | 91  | 30  |
|      | PBW 11 MFB 12 | BSP 1/2" | 94  | 30  |
|      | PBW 11 MFB 34 | BSP 3/4" | 98  | 34  |
|      | PBW 11 MNB 38 | NPT 3/8" | 91  | 30  |
|      | PBW 11 MNB 12 | NPT 1/2" | 94  | 30  |
|      | PBW 11 MNB 34 | NPT 3/4" | 98  | 34  |
| 13   | PBW 13 MFB 38 | BSP 3/8" | 91  | 30  |
|      | PBW 13 MFB 12 | BSP 1/2" | 94  | 30  |
|      | PBW 13 MFB 34 | BSP 3/4" | 98  | 34  |
|      | PBW 13 MNB 38 | NPT 3/8" | 91  | 30  |
|      | PBW 13 MNB 12 | NPT 1/2" | 94  | 30  |
|      | PBW 13 MNB 34 | NPT 3/4" | 98  | 34  |
| 16   | PBW 16 MFB 12 | BSP 1/2" | 108 | 36  |
|      | PBW 16 MFB 34 | BSP 3/4" | 111 | 36  |
|      | PBW 16 MNB 12 | NPT 1/2" | 108 | 36  |
|      | PBW 16 MNB 34 | NPT 3/4" | 111 | 36  |
| 19   | PBW 19 MFB 34 | BSP 3/4" | 133 | 41  |
|      | PBW 19 MFB 10 | BSP 1"   | 139 | 41  |
|      | PBW 19 MNB 34 | NPT 3/4" | 133 | 41  |
|      | PBW 19 MNB 10 | NPT 1"   | 139 | 41  |

Female thread plug



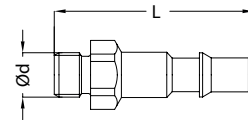
| Size |               | Ød       | L  | HEX |
|------|---------------|----------|----|-----|
| 3    | PBP 03 MFF 18 | BSP 1/8" | 43 | 14  |
|      | PBP 03 MNF 18 | NPT 1/8" | 43 | 14  |
| 6    | PBP 06 MFF 18 | BSP 1/8" | 42 | 14  |
|      | PBP 06 MFF 14 | BSP 1/4" | 47 | 17  |
|      | PBP 06 MFF 38 | BSP 3/8" | 50 | 22  |
|      | PBP 06 MFF 12 | BSP 1/2" | 53 | 27  |
|      | PBP 06 MNF 18 | NPT 1/8" | 42 | 14  |
|      | PBP 06 MNF 14 | NPT 1/4" | 47 | 17  |
|      | PBP 06 MNF 38 | NPT 3/8" | 50 | 22  |
|      | PBP 06 MNF 12 | NPT 1/2" | 53 | 27  |
| 8    | PBP 08 MFF 14 | BSP 1/4" | 56 | 24  |
|      | PBP 08 MFF 38 | BSP 3/8" | 58 | 24  |
|      | PBP 08 MFF 12 | BSP 1/2" | 59 | 24  |
|      | PBP 08 MNF 14 | NPT 1/4" | 56 | 24  |
|      | PBP 08 MNF 38 | NPT 3/8" | 58 | 24  |
|      | PBP 08 MNF 12 | NPT 1/2" | 60 | 24  |
| 11   | PBP 11 MFF 38 | BSP 3/8" | 62 | 22  |
|      | PBP 11 MFF 12 | BSP 1/2" | 66 | 27  |
|      | PBP 11 MFF 34 | BSP 3/4" | 69 | 32  |
|      | PBP 11 MNF 38 | NPT 3/8" | 62 | 22  |
|      | PBP 11 MNF 12 | NPT 1/2" | 66 | 27  |
|      | PBP 11 MNF 34 | NPT 3/4" | 69 | 32  |
| 13   | PBP 13 MFF 38 | BSP 3/8" | 62 | 22  |
|      | PBP 13 MFF 12 | BSP 1/2" | 66 | 27  |
|      | PBP 13 MFF 34 | BSP 3/4" | 69 | 32  |
|      | PBP 13 MNF 38 | NPT 3/8" | 62 | 22  |
|      | PBP 13 MNF 12 | NPT 1/2" | 66 | 27  |
|      | PBP 13 MNF 34 | NPT 3/4" | 69 | 32  |
| 16   | PBP 16 MFF 12 | BSP 1/2" | 69 | 27  |
|      | PBP 16 MFF 34 | BSP 3/4" | 72 | 32  |
|      | PBP 16 MNF 12 | NPT 1/2" | 69 | 27  |
|      | PBP 16 MNF 34 | NPT 3/4" | 72 | 32  |
| 19   | PBP 19 MFF 34 | BSP 3/4" | 89 | 36  |
|      | PBP 19 MFF 10 | BSP 1"   | 94 | 41  |
|      | PBP 19 MNF 34 | NPT 3/4" | 89 | 36  |
|      | PBP 19 MNF 10 | NPT 1"   | 94 | 41  |

Male thread plug



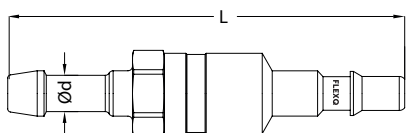
| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBW 03 MMB 18 | BSP 1/8" | 51  | 14  |
|      | PBW 03 MMB 14 | BSP 1/4" | 54  | 14  |
|      | PBW 03 MTB 18 | NPT 1/8" | 51  | 14  |
|      | PBW 03 MTB 14 | NPT 1/4" | 54  | 14  |
| 6    | PBW 06 MMB 18 | BSP 1/8" | 68  | 14  |
|      | PBW 06 MMB 14 | BSP 1/4" | 70  | 14  |
|      | PBW 06 MMB 38 | BSP 3/8" | 72  | 19  |
|      | PBW 06 MTB 18 | NPT 1/8" | 68  | 14  |
|      | PBW 06 MTB 14 | NPT 1/4" | 70  | 14  |
|      | PBW 06 MTB 38 | NPT 3/8" | 73  | 19  |
| 8    | PBW 08 MMB 14 | BSP 1/4" | 83  | 24  |
|      | PBW 08 MMB 38 | BSP 3/8" | 84  | 24  |
|      | PBW 08 MMB 12 | BSP 1/2" | 86  | 24  |
|      | PBW 08 MTB 14 | NPT 1/4" | 86  | 24  |
|      | PBW 08 MTB 38 | NPT 3/8" | 84  | 24  |
|      | PBW 08 MTB 12 | NPT 1/2" | 87  | 24  |
| 11   | PBW 11 MMB 38 | BSP 3/8" | 95  | 30  |
|      | PBW 11 MMB 12 | BSP 1/2" | 96  | 30  |
|      | PBW 11 MMB 34 | BSP 3/4" | 100 | 30  |
|      | PBW 11 MTB 38 | NPT 3/8" | 97  | 30  |
|      | PBW 11 MTB 12 | NPT 1/2" | 98  | 30  |
|      | PBW 11 MTB 34 | NPT 3/4" | 102 | 30  |
| 13   | PBW 13 MMB 38 | BSP 3/8" | 95  | 30  |
|      | PBW 13 MMB 12 | BSP 1/2" | 96  | 30  |
|      | PBW 13 MMB 34 | BSP 3/4" | 100 | 34  |
|      | PBW 13 MTB 38 | NPT 3/8" | 97  | 30  |
|      | PBW 13 MTB 12 | NPT 1/2" | 98  | 30  |
|      | PBW 13 MTB 34 | NPT 3/4" | 102 | 30  |
| 16   | PBW 16 MFB 12 | BSP 1/2" | 118 | 36  |
|      | PBW 16 MFB 34 | BSP 3/4" | 120 | 36  |
|      | PBW 16 MNB 12 | NPT 1/2" | 119 | 36  |
|      | PBW 16 MNB    | NPT 3/4" | 121 | 36  |
| 19   | PBW 19 MFB 34 | BSP 3/4" | 135 | 41  |
|      | PBW 19 MFB 10 | BSP 1"   | 139 | 41  |
|      | PBW 19 MNB 34 | NPT 3/4" | 136 | 41  |
|      | PBW 19 MNB 10 | NPT 1"   | 141 | 41  |

Male thread plug



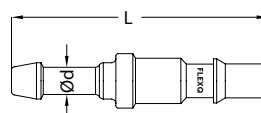
| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBP 03 MMF 18 | BSP 1/8" | 38  | 14  |
|      | PBP 03 MMF 14 | BSP 1/4" | 30  | 14  |
|      | PBP 03 MTF 18 | NPT 1/8" | 38  | 14  |
|      | PBP 03 MTF 14 | NPT 1/4" | 41  | 14  |
| 6    | PBP 06 MMF 18 | BSP 1/8" | 44  | 14  |
|      | PBP 06 MMF 14 | BSP 1/4" | 48  | 14  |
|      | PBP 06 MMF 38 | BSP 3/8" | 52  | 19  |
|      | PBP 06 MMF 12 | BSP 1/2" | 55  | 24  |
|      | PBP 06 MTF 18 | NPT 1/8" | 45  | 14  |
|      | PBP 06 MTF 14 | NPT 1/4" | 47  | 14  |
|      | PBP 06 MTF 38 | NPT 3/8" | 53  | 19  |
|      | PBP 06 MTF 12 | NPT 1/2" | 54  | 24  |
| 8    | PBP 08 MMF 14 | BSP 1/4" | 55  | 17  |
|      | PBP 08 MMF 38 | BSP 3/8" | 57  | 19  |
|      | PBP 08 MMF 12 | BSP 1/2" | 60  | 24  |
|      | PBP 08 MTF 14 | NPT 1/4" | 56  | 17  |
|      | PBP 08 MTF 38 | NPT 3/8" | 57  | 19  |
|      | PBP 08 MTF 12 | NPT 1/2" | 64  | 24  |
|      | PBP 08 MTF 34 | NPT 3/4" | 71  | 30  |
| 11   | PBP 11 MMF 38 | BSP 3/8" | 65  | 19  |
|      | PBP 11 MMF 12 | BSP 1/2" | 68  | 24  |
|      | PBP 11 MMF 34 | BSP 3/4" | 70  | 30  |
|      | PBP 11 MTF 38 | NPT 3/8" | 66  | 19  |
|      | PBP 11 MTF 12 | NPT 1/2" | 69  | 24  |
|      | PBP 11 MTF 34 | NPT 3/4" | 71  | 30  |
| 13   | PBP 13 MMF 38 | BSP 3/8" | 65  | 9   |
|      | PBP 13 MMF 12 | BSP 1/2" | 68  | 24  |
|      | PBP 13 MMF 34 | BSP 3/4" | 70  | 30  |
|      | PBP 13 MTF 38 | NPT 3/8" | 66  | 19  |
|      | PBP 13 MTF 12 | NPT 1/2" | 69  | 24  |
|      | PBP 13 MTF 34 | NPT 3/4" | 71  | 30  |
| 16   | PBP 16 MMF 12 | BSP 1/2" | 73  | 24  |
|      | PBP 16 MMF 34 | BSP 3/4" | 76  | 30  |
|      | PBP 16 MMF 12 | NPT 1/2" | 74  | 24  |
|      | PBP 16 MMF 34 | NPT 3/4" | 77  | 30  |
| 19   | PBP 19 MMF 34 | BSP 3/4" | 95  | 36  |
|      | PBP 19 MMF 10 | BSP 1"   | 100 | 36  |
|      | PBP 19 MTF 34 | NPT 3/4" | 96  | 36  |
|      | PBP 19 MTF 10 | NPT 1"   | 105 | 36  |

Standard hose tail plug



| Size |               | Ød    | L   | HEX |
|------|---------------|-------|-----|-----|
| 3    | PBW 03 MHB 04 | 4 mm  | 65  | 14  |
|      | PBW 03 MHB 06 | 6 mm  | 65  | 14  |
| 6    | PBW 06 MHB 04 | 4 mm  | 87  | 17  |
|      | PBW 06 MHB 06 | 6 mm  | 87  | 17  |
|      | PBW 06 MHB 08 | 8 mm  | 87  | 17  |
|      | PBW 06 MHB 10 | 10 mm | 87  | 17  |
|      | PBW 06 MNB 13 | 13 mm | 89  | 17  |
| 8    | PBW 08 MHB 06 | 6 mm  | 98  | 24  |
|      | PBW 08 MHB 08 | 8 mm  | 98  | 24  |
|      | PBW 08 MHB 10 | 10 mm | 98  | 24  |
|      | PBW 08 MHB 13 | 13 mm | 100 | 24  |
|      | PBW 08 MHB 16 | 16 mm | 102 | 24  |
| 11   | PBW 11 MHB 08 | 8 mm  | 100 | 30  |
|      | PBW 11 MHB 10 | 10 mm | 100 | 30  |
|      | PBW 11 MHB 13 | 13 mm | 102 | 30  |
|      | PBW 11 MHB 16 | 16 mm | 102 | 30  |
|      | PBW 11 MHB 19 | 19 mm | 120 | 33  |
| 13   | PBW 13 MHB 08 | 8 mm  | 100 | 30  |
|      | PBW 13 MHB 10 | 10 mm | 100 | 30  |
|      | PBW 13 MHB 13 | 13 mm | 102 | 30  |
|      | PBW 13 MHB 16 | 16 mm | 102 | 30  |
|      | PBW 13 MHB 19 | 19 mm | 120 | 33  |
| 16   | PBW 16 MHB 10 | 10 mm | 151 | 36  |
|      | PBW 16 MHB 13 | 13 mm | 153 | 36  |
|      | PBW 16 MHB 16 | 16 mm | 153 | 36  |
|      | PBW 16 MHB 19 | 19 mm | 160 | 36  |
| 19   | PBW 19 MHB 19 | 19 mm | 190 | 41  |
|      | PBW 19 MHB 25 | 25 mm | 195 | 41  |

Standard hose tail plug



| Size |               | Ød    | L   |
|------|---------------|-------|-----|
| 3    | PBP 03 MHF 04 | 4 mm  | 48  |
|      | PBP 03 MHF 06 | 6 mm  | 48  |
| 6    | PBP 06 MHF 04 | 4 mm  | 62  |
|      | PBP 06 MHF 06 | 6 mm  | 62  |
|      | PBP 06 MHF 08 | 8 mm  | 62  |
|      | PBP 06 MHF 10 | 10 mm | 62  |
|      | PBP 06 MHF 13 | 13 mm | 64  |
| 8    | PBP 08 MHF 06 | 6 mm  | 66  |
|      | PBP 08 MHF 08 | 8 mm  | 66  |
|      | PBP 08 MHF 10 | 10 mm | 66  |
|      | PBP 08 MHF 13 | 13 mm | 66  |
|      | PBP 08 MHF 16 | 16 mm | 70  |
| 11   | PBP 11 MHF 08 | 8 mm  | 70  |
|      | PBP 11 MHF 10 | 10 mm | 70  |
|      | PBP 11 MHF 13 | 13 mm | 72  |
|      | PBP 11 MHF 16 | 16 mm | 74  |
|      | PBP 11 MHF 19 | 19 mm | 80  |
| 13   | PBP 13 MHF 08 | 8 mm  | 70  |
|      | PBP 13 MHF 10 | 10 mm | 70  |
|      | PBP 13 MHF 13 | 13 mm | 72  |
|      | PBP 13 MHF 16 | 16 mm | 74  |
|      | PBP 13 MHF 19 | 19 mm | 80  |
| 16   | PBP 16 MHF 10 | 10 mm | 91  |
|      | PBP 16 MHF 13 | 13 mm | 91  |
|      | PBP 16 MHF 16 | 16 mm | 96  |
|      | PBP 16 MHF 19 | 19 mm | 104 |
| 19   | PBP 19 MHF 19 | 19 mm | 150 |
|      | PBP 19 MHF 25 | 25 mm | 152 |

# FLEXQ

■ MONOCOUPPLINGS FOR FLUIDS / SERIES PBW



## SERIE PBH

HYDRAULICS

Push button

### Options

- Colour coding
- Raised push button
- Fixing ring

R / B  
ED  
BO

### Applications

- Hydraulics



### Materials

|                 |                        |
|-----------------|------------------------|
| Body Socket     | Stainless st. AISI 303 |
| Socket backpart | Stainless steel        |
| Plug            | Stainless steel        |
| Button          | AISI 420 chrome pl.    |
| Valve           | AISI 316 L             |
| Spring          | Stainless steel        |
| Seals           | NBR (N)                |



### Temperature range

|                    |   |                |
|--------------------|---|----------------|
| Nitril (NBR)       | N | -15 °C +100 °C |
| Fluor-Carbon (FPM) | V | -20 °C +200 °C |

Always make sure that no medium is flowing before disconnecting

PBH 03 PBH 06 PBH 08 PBH 11 PBH 13 PBH 16 PBH 19



Flow Size

3 6 8 11 13 16 19



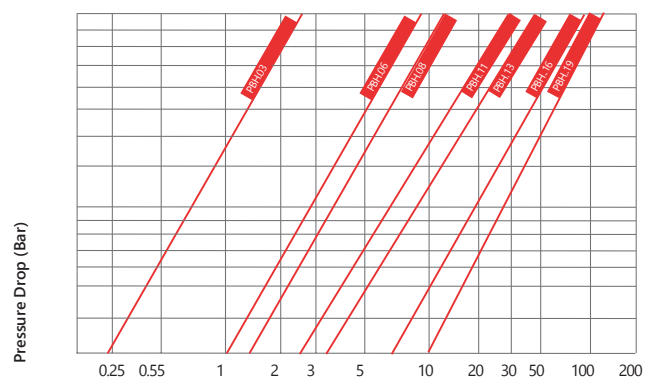
Pressure

350 350 350 300 300 300 250

FLEXQ

Series PBH - Flow Rate vs Pressure Drop Graph

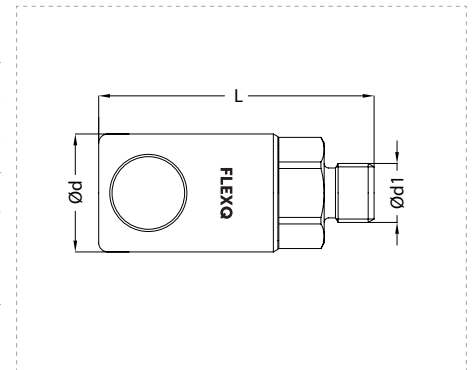
Hydraulic flow-chart

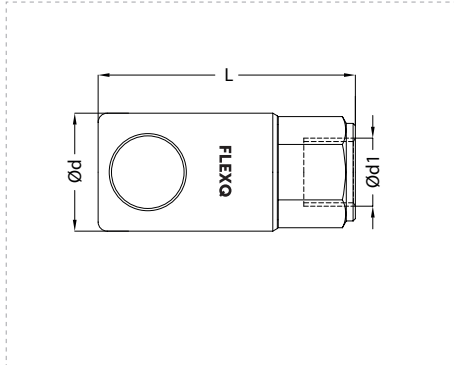


Flow l/min (Double-shut-off)

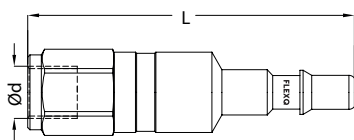


| Size |               | Ød1      | Ød | L   | HEX | Male thread socket |
|------|---------------|----------|----|-----|-----|--------------------|
| 3    | PBH 03 FMB 18 | BSP 1/8" | 16 | 43  | 14  |                    |
|      | PBH 03 FMB 14 | BSP 1/4" | 16 | 45  | 14  |                    |
|      | PBH 03 FTB 18 | NPT 1/8" | 16 | 44  | 14  |                    |
|      | PBH 03 FTB 14 | NPT 1/4" | 15 | 45  | 14  |                    |
| 6    | PBH 06 FMB 18 | BSP 1/8" | 26 | 55  | 22  |                    |
|      | PBH 06 FMB 14 | BSP 1/4" | 26 | 61  | 22  |                    |
|      | PBH 06 FMB 38 | BSP 3/8" | 26 | 61  | 22  |                    |
|      | PBH 06 FMB 12 | BSP 1/2" | 26 | 65  | 24  |                    |
|      | PBH 06 FTB 18 | NPT 1/8" | 26 | 55  | 22  |                    |
|      | PBH 06 FTB 14 | NPT 1/4" | 26 | 61  | 22  |                    |
|      | PBH 06 FTB 38 | NPT 3/8" | 26 | 61  | 22  |                    |
|      | PBH 06 FTB 12 | NPT 1/2" | 26 | 66  | 24  |                    |
| 8    | PBH 08 FMB 14 | BSP 1/4" | 32 | 72  | 27  |                    |
|      | PBH 08 FMB 38 | BSP 3/8" | 32 | 72  | 27  |                    |
|      | PBH 08 FMB 12 | BSP 1/2" | 32 | 76  | 27  |                    |
|      | PBH 08 FTB 14 | NPT 1/4" | 32 | 72  | 27  |                    |
|      | PBH 08 FTB 38 | NPT 3/8" | 32 | 72  | 27  |                    |
|      | PBH 08 FTB 12 | NPT 1/2" | 32 | 76  | 27  |                    |
| 11   | PBH 11 FMB 38 | BSP 3/8" | 38 | 84  | 32  |                    |
|      | PBH 11 FMB 12 | BSP 1/2" | 38 | 88  | 32  |                    |
|      | PBH 11 FMB 34 | BSP 3/4" | 38 | 91  | 34  |                    |
|      | PBH 11 FTB 38 | NPT 3/8" | 38 | 84  | 32  |                    |
|      | PBH 11 FTB 12 | NPT 1/2" | 38 | 88  | 32  |                    |
|      | PBH 11 FTB 34 | NPT 3/4" | 38 | 91  | 34  |                    |
| 13   | PBH 13 FMB 38 | BSP 3/8" | 38 | 84  | 32  |                    |
|      | PBH 13 FMB 12 | BSP 1/2" | 38 | 88  | 32  |                    |
|      | PBH 13 FMB 34 | BSP 3/4" | 38 | 91  | 34  |                    |
|      | PBH 13 FTB 38 | NPT 3/8" | 38 | 84  | 32  |                    |
|      | PBH 13 FTB 12 | NPT 1/2" | 38 | 88  | 32  |                    |
|      | PBH 13 FTB 34 | NPT 3/4" | 38 | 91  | 34  |                    |
| 16   | PBH 16 FMB 12 | BSP 1/2" | 44 | 99  | 38  |                    |
|      | PBH 16 FMB 34 | BSP 3/4" | 44 | 101 | 38  |                    |
|      | PBH 16 FTB 12 | NPT 1/2" | 44 | 99  | 38  |                    |
|      | PBH 16 FTB 34 | NPT 3/4" | 44 | 101 | 38  |                    |
| 19   | PBH 19 FMB 34 | BSP 3/4" | 55 | 125 | 46  |                    |
|      | PBH 19 FMB 10 | BSP 1"   | 55 | 127 | 46  |                    |
|      | PBH 19 FTB 34 | NPT 3/4" | 55 | 125 | 46  |                    |
|      | PBH 19 FTB 10 | NPT 1"   | 55 | 127 | 46  |                    |



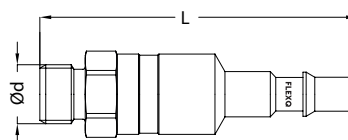
| Female thread socket                                                              |    |  Size |  | Ød1 | Ød  | L  | HEX |
|-----------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|-----|----|-----|
|  | 3  | PBH 03 FFB 18                                                                          | BSP 1/8"                                                                          | 16  | 43  | 14 |     |
|                                                                                   |    | PBH 03 FNB 18                                                                          | NPT 1/8"                                                                          | 16  | 43  | 14 |     |
|                                                                                   | 6  | PBH 06 FFB 18                                                                          | BSP 1/8"                                                                          | 26  | 53  | 22 |     |
|                                                                                   |    | PBH 06 FFB 14                                                                          | BSP 1/4"                                                                          | 26  | 53  | 22 |     |
|                                                                                   |    | PBH 06 FFB 38                                                                          | BSP 3/8"                                                                          | 26  | 57  | 22 |     |
|                                                                                   |    | PBH 06 FFB 12                                                                          | BSP 1/2"                                                                          | 26  | 61  | 24 |     |
|                                                                                   |    | PBH 06 FNB 18                                                                          | NPT 1/8"                                                                          | 26  | 53  | 22 |     |
|                                                                                   |    | PBH 06 FNB 14                                                                          | NPT 1/4"                                                                          | 26  | 53  | 22 |     |
|                                                                                   |    | PBH 06 FNB 38                                                                          | NPT 3/8"                                                                          | 26  | 57  | 22 |     |
|                                                                                   |    | PBH 06 FNB 12                                                                          | NPT 1/2"                                                                          | 26  | 61  | 24 |     |
|                                                                                   | 8  | PBH 08 FFB 14                                                                          | BSP 1/4"                                                                          | 32  | 66  | 27 |     |
|                                                                                   |    | PBH 08 FFB 38                                                                          | BSP 3/8"                                                                          | 32  | 66  | 27 |     |
|                                                                                   |    | PBH 08 FFB 12                                                                          | BSP 1/2"                                                                          | 32  | 74  | 27 |     |
|                                                                                   |    | PBH 08 FNB 14                                                                          | NPT 1/4"                                                                          | 32  | 66  | 27 |     |
|                                                                                   |    | PBH 08 FNB 38                                                                          | NPT 3/8"                                                                          | 32  | 66  | 27 |     |
|                                                                                   |    | PBH 08 FNB 12                                                                          | NPT 1/2"                                                                          | 32  | 74  | 27 |     |
|                                                                                   | 11 | PBH 11 FFB 38                                                                          | BSP 3/8"                                                                          | 38  | 76  | 32 |     |
|                                                                                   |    | PBH 11 FFB 12                                                                          | BSP 1/2"                                                                          | 38  | 78  | 32 |     |
|                                                                                   |    | PBH 11 FFB 34                                                                          | BSP 3/4"                                                                          | 38  | 85  | 34 |     |
|                                                                                   |    | PBH 11 FNB 38                                                                          | NPT 3/8"                                                                          | 38  | 76  | 32 |     |
|                                                                                   |    | PBH 11 FNB 12                                                                          | NPT 1/2"                                                                          | 38  | 78  | 32 |     |
|                                                                                   |    | PBH 11 FNB 34                                                                          | NPT 3/4"                                                                          | 38  | 85  | 34 |     |
|                                                                                   | 13 | PBH 13 FFB 38                                                                          | BSP 3/8"                                                                          | 38  | 76  | 32 |     |
|                                                                                   |    | PBH 13 FFB 12                                                                          | BSP 1/2"                                                                          | 38  | 78  | 32 |     |
|                                                                                   |    | PBH 13 FFB 34                                                                          | BSP 3/4"                                                                          | 38  | 85  | 34 |     |
|                                                                                   |    | PBH 13 FNB 38                                                                          | NPT 3/8"                                                                          | 38  | 76  | 32 |     |
|                                                                                   |    | PBH 13 FNB 12                                                                          | NPT 1/2"                                                                          | 38  | 78  | 32 |     |
|                                                                                   |    | PBH 13 FNB 34                                                                          | NPT 3/4"                                                                          | 38  | 85  | 34 |     |
|                                                                                   | 16 | PBH 16 FFB 12                                                                          | BSP 1/2"                                                                          | 44  | 93  | 32 |     |
|                                                                                   |    | PBH 16 FFB 34                                                                          | BSP 3/4"                                                                          | 44  | 98  | 32 |     |
|                                                                                   |    | PBH 16 FNB 12                                                                          | NPT 1/2"                                                                          | 44  | 93  | 34 |     |
|                                                                                   |    | PBH 16 FNB 34                                                                          | NPT 3/4"                                                                          | 44  | 98  | 32 |     |
|                                                                                   | 19 | PBH 19 FFB 34                                                                          | BSP 3/4"                                                                          | 55  | 115 | 46 |     |
|                                                                                   |    | PBH 19 FFB 10                                                                          | BSP 1"                                                                            | 55  | 115 | 46 |     |
|                                                                                   |    | PBH 19 FNB 34                                                                          | NPT 3/4"                                                                          | 55  | 115 | 46 |     |
|                                                                                   |    | PBH 19 FNB 10                                                                          | NPT 1"                                                                            | 55  | 115 | 46 |     |

Female thread plug



| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBH 03 MFB 18 | BSP 1/8" | 52  | 14  |
|      | PBH 03 MNB 18 | NPT 1/8" | 52  | 14  |
| 6    | PBH 06 MFB 18 | BSP 1/8" | 66  | 17  |
|      | PBH 06 MFB 14 | BSP 1/4" | 73  | 17  |
|      | PBH 06 MFB 38 | BSP 3/8" | 73  | 22  |
|      | PBH 06 MNB 18 | NPT 1/8" | 66  | 17  |
|      | PBH 06 MNB 14 | NPT 1/4" | 73  | 17  |
|      | PBH 06 MNB 38 | NPT 3/8" | 73  | 22  |
| 8    | PBH 08 MFB 14 | BSP 1/4" | 81  | 24  |
|      | PBH 08 MFB 38 | BSP 3/8" | 81  | 24  |
|      | PBH 08 MFB 12 | BSP 1/2" | 83  | 24  |
|      | PBH 08 MNB 14 | NPT 1/4" | 81  | 24  |
|      | PBH 08 MNB 38 | NPT 3/8" | 81  | 24  |
|      | PBH 08 MNB 12 | NPT 1/2" | 83  | 24  |
| 11   | PBH 11 MFB 38 | BSP 3/8" | 91  | 30  |
|      | PBH 11 MFB 12 | BSP 1/2" | 94  | 30  |
|      | PBH 11 MFB 34 | BSP 3/4" | 98  | 34  |
|      | PBH 11 MNB 38 | NPT 3/8" | 91  | 30  |
|      | PBH 11 MNB 12 | NPT 1/2" | 94  | 30  |
|      | PBH 11 MNB 34 | NPT 3/4" | 98  | 34  |
| 13   | PBH 13 MFB 38 | BSP 3/8" | 91  | 30  |
|      | PBH 13 MFB 12 | BSP 1/2" | 94  | 30  |
|      | PBH 13 MFB 34 | BSP 3/4" | 98  | 34  |
|      | PBH 13 MNB 38 | NPT 3/8" | 91  | 30  |
|      | PBH 13 MNB 12 | NPT 1/2" | 94  | 30  |
|      | PBH 13 MNB 34 | NPT 3/4" | 98  | 34  |
| 16   | PBH 16 MFB 12 | BSP 1/2" | 108 | 36  |
|      | PBH 16 MFB 34 | BSP 3/4" | 111 | 36  |
|      | PBH 16 MNB 12 | NPT 1/2" | 108 | 36  |
|      | PBH 16 MNB 34 | NPT 3/4" | 111 | 36  |
| 19   | PBH 19 MFB 34 | BSP 3/4" | 133 | 41  |
|      | PBH 19 MFB 10 | BSP 1"   | 139 | 41  |
|      | PBH 19 MNB 34 | NPT 3/4" | 133 | 41  |
|      | PBH 19 MNB 10 | NPT 1"   | 139 | 41  |

Male thread plug



| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBH 03 MMB 18 | BSP 1/8" | 51  | 14  |
|      | PBH 03 MMB 14 | BSP 1/4" | 54  | 14  |
|      | PBH 03 MTB 18 | NPT 1/8" | 51  | 14  |
|      | PBH 03 MTB 14 | NPT 1/4" | 54  | 14  |
| 6    | PBH 06 MMB 18 | BSP 1/8" | 68  | 14  |
|      | PBH 06 MMB 14 | BSP 1/4" | 70  | 14  |
|      | PBH 06 MMB 38 | BSP 3/8" | 72  | 19  |
|      | PBH 06 MTB 18 | NPT 1/8" | 68  | 14  |
|      | PBH 06 MTB 14 | NPT 1/4" | 70  | 14  |
|      | PBH 06 MTB 38 | NPT 3/8" | 73  | 19  |
| 8    | PBH 08 MMB 14 | BSP 1/4" | 83  | 24  |
|      | PBH 08 MMB 38 | BSP 3/8" | 84  | 24  |
|      | PBH 08 MMB 12 | BSP 1/2" | 86  | 24  |
|      | PBH 08 MTB 14 | NPT 1/4" | 86  | 24  |
|      | PBH 08 MTB 38 | NPT 3/8" | 84  | 24  |
|      | PBH 08 MTB 12 | NPT 1/2" | 87  | 24  |
| 11   | PBH 11 MMB 38 | BSP 3/8" | 95  | 30  |
|      | PBH 11 MMB 12 | BSP 1/2" | 96  | 30  |
|      | PBH 11 MMB 34 | BSP 3/4" | 100 | 30  |
|      | PBH 11 MTB 38 | NPT 3/8" | 97  | 30  |
|      | PBH 11 MTB 12 | NPT 1/2" | 98  | 30  |
|      | PBH 11 MTB 34 | NPT 3/4" | 102 | 30  |
| 13   | PBH 13 MMB 38 | BSP 3/8" | 95  | 30  |
|      | PBH 13 MMB 12 | BSP 1/2" | 96  | 30  |
|      | PBH 13 MMB 34 | BSP 3/4" | 100 | 34  |
|      | PBH 13 MTB 38 | NPT 3/8" | 97  | 30  |
|      | PBH 13 MTB 12 | NPT 1/2" | 98  | 30  |
|      | PBH 13 MTB 34 | NPT 3/4" | 102 | 30  |
| 16   | PBH 16 MFB 12 | BSP 1/2" | 118 | 36  |
|      | PBH 16 MFB 34 | BSP 3/4" | 120 | 36  |
|      | PBH 16 MNB 12 | NPT 1/2" | 119 | 36  |
|      | PBH 16 MNB 34 | NPT 3/4" | 121 | 36  |
| 19   | PBH 19 MFB 34 | BSP 3/4" | 135 | 41  |
|      | PBH 19 MFB 10 | BSP 1"   | 139 | 41  |
|      | PBH 19 MNB 34 | NPT 3/4" | 136 | 41  |
|      | PBH 19 MNB 10 | NPT 1"   | 141 | 41  |

### SERIE PBI

FLUIDS

Push button

Options

- Colour coding
- Rised push button
- Fixing ring

R / B  
ED  
BO

Applications

- Fluids
- Chemicals
- Cooling heating
- Vacuum



Materials

|                 |            |
|-----------------|------------|
| Body Socket     | AISI 316 L |
| Socket backpart | AISI 316 L |
| Plug            | AISI 316 L |
| Button          | AISI 316 L |
| Valve           | AISI 316 L |
| Spring          | AISI 316 L |
| Seals           | NBR (N)    |



Temperature range

|                                           |     |                |
|-------------------------------------------|-----|----------------|
| Nitrile (NBR)                             | N   | -15 °C +100 °C |
| Fluorocarbon (FPM)                        | V   | -20 °C +200 °C |
| High temperature fluorocarbon (FPM)       | HTO | -20 °C +230 °C |
| Ethylene propylene (EPDM)                 | E   | -20 °C +150 °C |
| High temperture ethylene propylene (EPDM) | HTW | -20 °C +180 °C |
| Perfluoroelastomer (FFKM)                 | W   | -15 °C +270 °C |
| Fluoro-silicones (FMQ)                    |     | -45 °C +175 °C |

Connect and disconnect only when depressurized

PBI 03 PBI 06 PBI 08 PBI 11 PBI 13 PBI 16 PBI 19



Flow Size

3 6 8 11 13 16 19



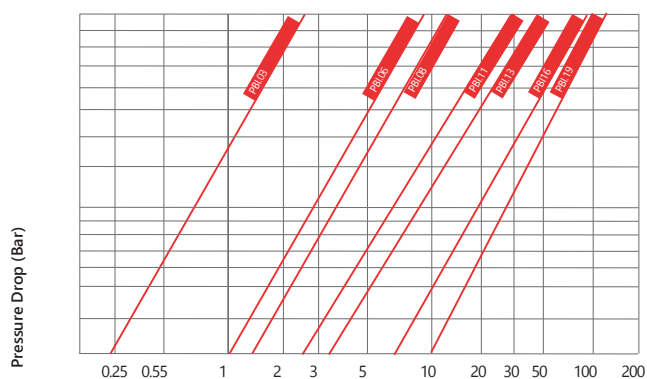
Pressure

15 15 15 15 15 15 15

FLEXQ

Serie PBI - Flow Rate vs Pressure Drop Graph

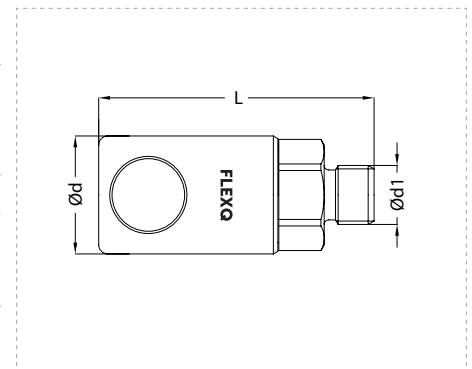
Hydraulic flow-chart

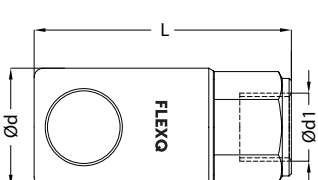


Flow l/min (Double-shut-off)

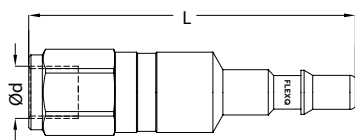


| Size |               | Ød1      | Ød | L   | HEX | Male thread socket |
|------|---------------|----------|----|-----|-----|--------------------|
| 3    | PBI 03 FMB 18 | BSP 1/8" | 16 | 43  | 14  |                    |
|      | PBI 03 FMB 14 | BSP 1/4" | 16 | 45  | 14  |                    |
|      | PBI 03 FTB 18 | NPT 1/8" | 16 | 44  | 14  |                    |
|      | PBI 03 FTB 14 | NPT 1/4" | 15 | 45  | 14  |                    |
| 6    | PBI 06 FMB 18 | BSP 1/8" | 26 | 55  | 22  |                    |
|      | PBI 06 FMB 14 | BSP 1/4" | 26 | 61  | 22  |                    |
|      | PBI 06 FMB 38 | BSP 3/8" | 26 | 61  | 22  |                    |
|      | PBI 06 FMB 12 | BSP 1/2" | 26 | 65  | 24  |                    |
|      | PBI 06 FTB 18 | NPT 1/8" | 26 | 55  | 22  |                    |
|      | PBI 06 FTB 14 | NPT 1/4" | 26 | 61  | 22  |                    |
|      | PBI 06 FTB 38 | NPT 3/8" | 26 | 61  | 22  |                    |
|      | PBI 06 FTB 12 | NPT 1/2" | 26 | 66  | 24  |                    |
| 8    | PBI 08 FMB 14 | BSP 1/4" | 32 | 72  | 27  |                    |
|      | PBI 08 FMB 38 | BSP 3/8" | 32 | 72  | 27  |                    |
|      | PBI 08 FMB 12 | BSP 1/2" | 32 | 76  | 27  |                    |
|      | PBI 08 FTB 14 | NPT 1/4" | 32 | 72  | 27  |                    |
|      | PBI 08 FTB 38 | NPT 3/8" | 32 | 72  | 27  |                    |
|      | PBI 08 FTB 12 | NPT 1/2" | 32 | 76  | 27  |                    |
| 11   | PBI 11 FMB 38 | BSP 3/8" | 38 | 84  | 32  |                    |
|      | PBI 11 FMB 12 | BSP 1/2" | 38 | 88  | 32  |                    |
|      | PBI 11 FMB 34 | BSP 3/4" | 38 | 91  | 34  |                    |
|      | PBI 11 FTB 38 | NPT 3/8" | 38 | 84  | 32  |                    |
|      | PBI 11 FTB 12 | NPT 1/2" | 38 | 88  | 32  |                    |
|      | PBI 11 FTB 34 | NPT 3/4" | 38 | 91  | 34  |                    |
| 13   | PBI 13 FMB 38 | BSP 3/8" | 38 | 84  | 32  |                    |
|      | PBI 13 FMB 12 | BSP 1/2" | 38 | 88  | 32  |                    |
|      | PBI 13 FMB 34 | BSP 3/4" | 38 | 91  | 34  |                    |
|      | PBI 13 FTB 38 | NPT 3/8" | 38 | 84  | 32  |                    |
|      | PBI 13 FTB 12 | NPT 1/2" | 38 | 88  | 32  |                    |
|      | PBI 13 FTB 34 | NPT 3/4" | 38 | 91  | 34  |                    |
| 16   | PBI 16 FMB 12 | BSP 1/2" | 44 | 99  | 38  |                    |
|      | PBI 16 FMB 34 | BSP 3/4" | 44 | 101 | 38  |                    |
|      | PBI 16 FTB 12 | NPT 1/2" | 44 | 99  | 38  |                    |
|      | PBI 16 FTB 34 | NPT 3/4" | 44 | 101 | 38  |                    |
| 19   | PBI 19 FMB 34 | BSP 3/4" | 55 | 125 | 46  |                    |
|      | PBI 19 FMB 10 | BSP 1"   | 55 | 127 | 46  |                    |
|      | PBI 19 FTB 34 | NPT 3/4" | 55 | 125 | 46  |                    |
|      | PBI 19 FTB 10 | NPT 1"   | 55 | 127 | 46  |                    |



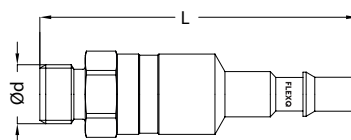
| Female thread socket                                                               | Size |               | Ød1      | Ød | L   | HEX |
|------------------------------------------------------------------------------------|------|---------------|----------|----|-----|-----|
|  | 3    | PBI 03 FFB 18 | BSP 1/8" | 16 | 43  | 14  |
|                                                                                    |      | PBI 03 FNB 18 | NPT 1/8" | 16 | 43  | 14  |
|                                                                                    | 6    | PBI 06 FFB 18 | BSP 1/8" | 26 | 53  | 22  |
|                                                                                    |      | PBI 06 FFB 14 | BSP 1/4" | 26 | 53  | 22  |
|                                                                                    |      | PBI 06 FFB 38 | BSP 3/8" | 26 | 57  | 22  |
|                                                                                    |      | PBI 06 FFB 12 | BSP 1/2" | 26 | 61  | 24  |
|                                                                                    |      | PBI 06 FNB 18 | NPT 1/8" | 26 | 53  | 22  |
|                                                                                    |      | PBI 06 FNB 14 | NPT 1/4" | 26 | 53  | 22  |
|                                                                                    |      | PBI 06 FNB 38 | NPT 3/8" | 26 | 57  | 22  |
|                                                                                    |      | PBI 06 FNB 12 | NPT 1/2" | 26 | 61  | 24  |
|                                                                                    | 8    | PBI 08 FFB 14 | BSP 1/4" | 32 | 66  | 27  |
|                                                                                    |      | PBI 08 FFB 38 | BSP 3/8" | 32 | 66  | 27  |
|                                                                                    |      | PBI 08 FFB 12 | BSP 1/2" | 32 | 74  | 27  |
|                                                                                    |      | PBI 08 FNB 14 | NPT 1/4" | 32 | 66  | 27  |
|                                                                                    |      | PBI 08 FNB 38 | NPT 3/8" | 32 | 66  | 27  |
|                                                                                    |      | PBI 08 FNB 12 | NPT 1/2" | 32 | 74  | 27  |
|                                                                                    | 11   | PBI 11 FFB 38 | BSP 3/8" | 38 | 76  | 32  |
|                                                                                    |      | PBI 11 FFB 12 | BSP 1/2" | 38 | 78  | 32  |
|                                                                                    |      | PBI 11 FFB 34 | BSP 3/4" | 38 | 85  | 34  |
|                                                                                    |      | PBI 11 FNB 38 | NPT 3/8" | 38 | 76  | 32  |
|                                                                                    |      | PBI 11 FNB 12 | NPT 1/2" | 38 | 78  | 32  |
|                                                                                    |      | PBI 11 FNB 34 | NPT 3/4" | 38 | 85  | 34  |
|                                                                                    | 13   | PBI 13 FFB 38 | BSP 3/8" | 38 | 76  | 32  |
|                                                                                    |      | PBI 13 FFB 12 | BSP 1/2" | 38 | 78  | 32  |
|                                                                                    |      | PBI 13 FFB 34 | BSP 3/4" | 38 | 85  | 34  |
|                                                                                    |      | PBI 13 FNB 38 | NPT 3/8" | 38 | 76  | 32  |
|                                                                                    |      | PBI 13 FNB 12 | NPT 1/2" | 38 | 78  | 32  |
|                                                                                    |      | PBI 13 FNB 34 | NPT 3/4" | 38 | 85  | 34  |
|                                                                                    | 16   | PBI 16 FFB 12 | BSP 1/2" | 44 | 93  | 32  |
|                                                                                    |      | PBI 16 FFB 34 | BSP 3/4" | 44 | 98  | 32  |
|                                                                                    |      | PBI 16 FNB 12 | NPT 1/2" | 44 | 93  | 34  |
|                                                                                    |      | PBI 16 FNB 34 | NPT 3/4" | 44 | 98  | 32  |
|                                                                                    | 19   | PBI 19 FFB 34 | BSP 3/4" | 55 | 115 | 46  |
|                                                                                    |      | PBI 19 FFB 10 | BSP 1"   | 55 | 115 | 46  |
|                                                                                    |      | PBI 19 FNB 34 | NPT 3/4" | 55 | 115 | 46  |
|                                                                                    |      | PBI 19 FNB 10 | NPT 1"   | 55 | 115 | 46  |

Female thread plug



| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBI 03 MFB 18 | BSP 1/8" | 52  | 14  |
|      | PBI 03 MNB 18 | NPT 1/8" | 52  | 14  |
| 6    | PBI 06 MFB 18 | BSP 1/8" | 66  | 17  |
|      | PBI 06 MFB 14 | BSP 1/4" | 73  | 17  |
|      | PBI 06 MFB 38 | BSP 3/8" | 73  | 22  |
|      | PBI 06 MNB 18 | NPT 1/8" | 66  | 17  |
|      | PBI 06 MNB 14 | NPT 1/4" | 73  | 17  |
|      | PBI 06 MNB 38 | NPT 3/8" | 73  | 22  |
| 8    | PBI 08 MFB 14 | BSP 1/4" | 81  | 24  |
|      | PBI 08 MFB 38 | BSP 3/8" | 81  | 24  |
|      | PBI 08 MFB 12 | BSP 1/2" | 83  | 24  |
|      | PBI 08 MNB 14 | NPT 1/4" | 81  | 24  |
|      | PBI 08 MNB 38 | NPT 3/8" | 81  | 24  |
|      | PBI 08 MNB 12 | NPT 1/2" | 83  | 24  |
| 11   | PBI 11 MFB 38 | BSP 3/8" | 91  | 30  |
|      | PBI 11 MFB 12 | BSP 1/2" | 94  | 30  |
|      | PBI 11 MFB 34 | BSP 3/4" | 98  | 34  |
|      | PBI 11 MNB 38 | NPT 3/8" | 91  | 30  |
|      | PBI 11 MNB 12 | NPT 1/2" | 94  | 30  |
|      | PBI 11 MNB 34 | NPT 3/4" | 98  | 34  |
| 13   | PBI 13 MFB 38 | BSP 3/8" | 91  | 30  |
|      | PBI 13 MFB 12 | BSP 1/2" | 94  | 30  |
|      | PBI 13 MFB 34 | BSP 3/4" | 98  | 34  |
|      | PBI 13 MNB 38 | NPT 3/8" | 91  | 30  |
|      | PBI 13 MNB 12 | NPT 1/2" | 94  | 30  |
|      | PBI 13 MNB 34 | NPT 3/4" | 98  | 34  |
| 16   | PBI 16 MFB 12 | BSP 1/2" | 108 | 36  |
|      | PBI 16 MFB 34 | BSP 3/4" | 111 | 36  |
|      | PBI 16 MNB 12 | NPT 1/2" | 108 | 36  |
|      | PBI 16 MNB 34 | NPT 3/4" | 111 | 36  |
| 19   | PBI 19 MFB 34 | BSP 3/4" | 133 | 41  |
|      | PBI 19 MFB 10 | BSP 1"   | 139 | 41  |
|      | PBI 19 MNB 34 | NPT 3/4" | 133 | 41  |
|      | PBI 19 MNB 10 | NPT 1"   | 139 | 41  |

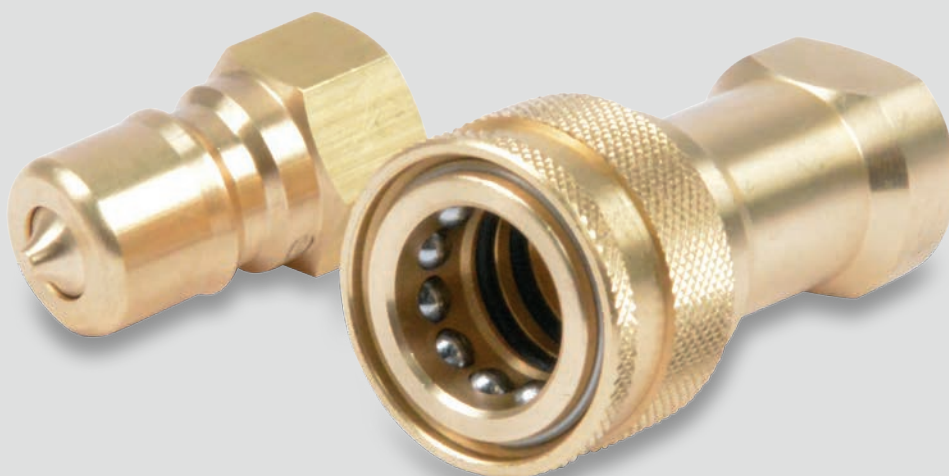
Male thread plug



| Size |               | Ød       | L   | HEX |
|------|---------------|----------|-----|-----|
| 3    | PBI 03 MMB 18 | BSP 1/8" | 51  | 14  |
|      | PBI 03 MMB 14 | BSP 1/4" | 54  | 14  |
|      | PBI 03 MTB 18 | NPT 1/8" | 51  | 14  |
|      | PBI 03 MTB 14 | NPT 1/4" | 54  | 14  |
| 6    | PBI 06 MMB 18 | BSP 1/8" | 68  | 14  |
|      | PBI 06 MMB 14 | BSP 1/4" | 70  | 14  |
|      | PBI 06 MMB 38 | BSP 3/8" | 72  | 19  |
|      | PBI 06 MTB 18 | NPT 1/8" | 68  | 14  |
|      | PBI 06 MTB 14 | NPT 1/4" | 70  | 14  |
|      | PBI 06 MTB 38 | NPT 3/8" | 73  | 19  |
| 8    | PBI 08 MMB 14 | BSP 1/4" | 83  | 24  |
|      | PBI 08 MMB 38 | BSP 3/8" | 84  | 24  |
|      | PBI 08 MMB 12 | BSP 1/2" | 86  | 24  |
|      | PBI 08 MTB 14 | NPT 1/4" | 86  | 24  |
|      | PBI 08 MTB 38 | NPT 3/8" | 84  | 24  |
|      | PBI 08 MTB 12 | NPT 1/2" | 87  | 24  |
| 11   | PBI 11 MMB 38 | BSP 3/8" | 95  | 30  |
|      | PBI 11 MMB 12 | BSP 1/2" | 96  | 30  |
|      | PBI 11 MMB 34 | BSP 3/4" | 100 | 30  |
|      | PBI 11 MTB 38 | NPT 3/8" | 97  | 30  |
|      | PBI 11 MTB 12 | NPT 1/2" | 98  | 30  |
|      | PBI 11 MTB 34 | NPT 3/4" | 102 | 30  |
| 13   | PBI 13 MMB 38 | BSP 3/8" | 95  | 30  |
|      | PBI 13 MMB 12 | BSP 1/2" | 96  | 30  |
|      | PBI 13 MMB 34 | BSP 3/4" | 100 | 34  |
|      | PBI 13 MTB 38 | NPT 3/8" | 97  | 30  |
|      | PBI 13 MTB 12 | NPT 1/2" | 98  | 30  |
|      | PBI 13 MTB 34 | NPT 3/4" | 102 | 30  |
| 16   | PBI 16 MFB 12 | BSP 1/2" | 118 | 36  |
|      | PBI 16 MFB 34 | BSP 3/4" | 120 | 36  |
|      | PBI 16 MNB 12 | NPT 1/2" | 119 | 36  |
|      | PBI 16 MNB 34 | NPT 3/4" | 121 | 36  |
| 19   | PBI 19 MFB 34 | BSP 3/4" | 135 | 41  |
|      | PBI 19 MFB 10 | BSP 1"   | 139 | 41  |
|      | PBI 19 MNB 34 | NPT 3/4" | 136 | 41  |
|      | PBI 19 MNB 10 | NPT 1"   | 141 | 41  |

**FLEXQ**  
CONNECTORS

**PPT**  
ISO 7241-1 Serie B



**LINKING PRECISION WITH PERFORMANCE**

## PPT, the multi purpose quick coupling system for air, fluids and hydraulic applications

### Characteristics

- Optimized flow characteristics
- Ergonomic design
- Wide flow size range
- Available in stainless steel
- ISO profile

### Safe and quick locking

Depending on the size, the balls provide a reliable locking.  
The locking sleeve is ergonomic designed - thanks to these properties PPT series become a comfortable and safe quick connect/disconnect coupling system.

PPT  
ISO 7241-1



## SERIE PPT

MULTI PURPOSE

-- ISO 7241-1 SERIE B --

### Options

- Stainless Steel
- High Temperature FFKM

VA  
W

### Applications

- On thermo regulation
- Injection moulding
- Heating oil
- Steam lines
- Blow molding



### Materials (Standard)

|              |                 |
|--------------|-----------------|
| Body Socket  | Brass           |
| Body Plug    | Brass           |
| Sleeve       | Brass           |
| Valve        | Brass           |
| Locking Ring | Stainless steel |
| Spring       | Stainless steel |
| Balls        | Stainless steel |
| Seals        | Nitrile (N)     |



### Temperature range

|                    |      |                 |
|--------------------|------|-----------------|
| Nitril (NBR)       | N    | - 15 °C +100 °C |
| Fluorcarbon (FPM)  | V    | - 20 °C +180 °C |
| Ethylene Propylene | EPDM | - 40 °C +150 °C |

Always make sure that no medium is flowing before disconnecting



Flow Size



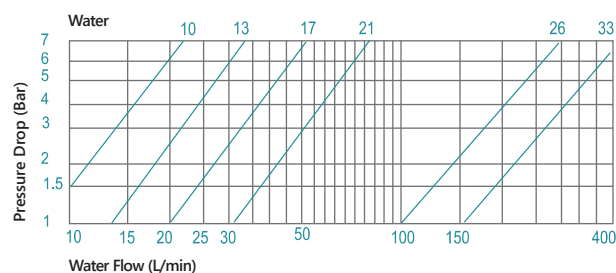
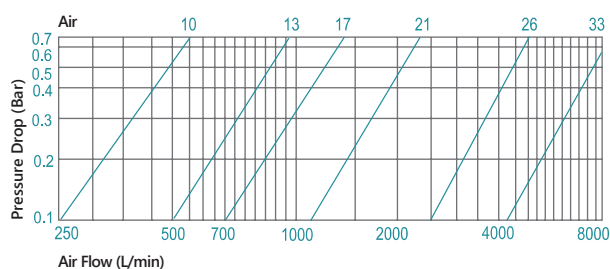
Pressure

See table page 76

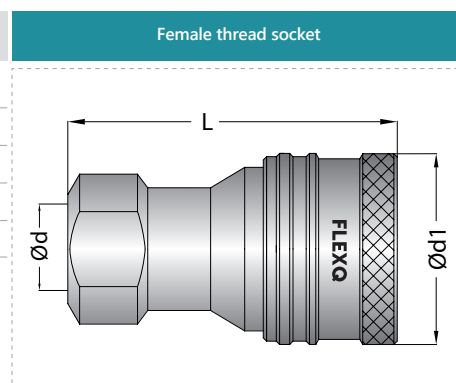


**FLEXQ**

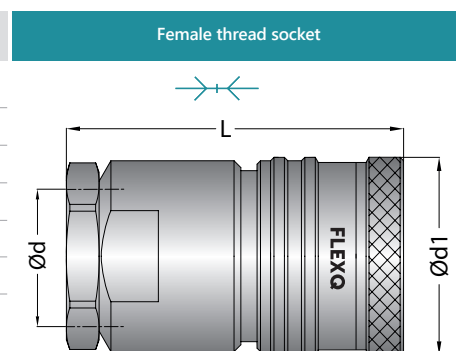
### Series PPT - Flow Rate & Pressure Drop Graph



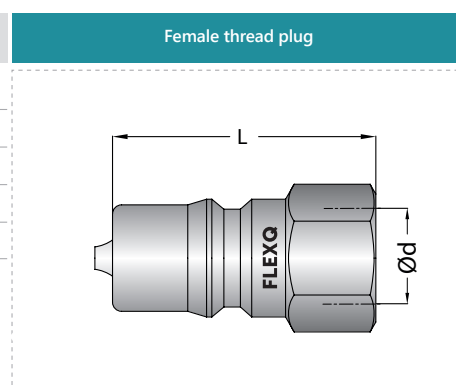
| Size |  |  | Ød      | Ød1 | L   | HEX |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-----|-----|-----|
| 4    | PPT 04 FFB 18                                                                     | PPT 04 FFF 18                                                                     | BSP 1/8 | 25  | 49  | 14  |
| 8    | PPT 08 FFB 14                                                                     | PPT 08 FFF 14                                                                     | BSP 1/4 | 29  | 58  | 19  |
| 10   | PPT 10 FFB 38                                                                     | PPT 10 FFF 38                                                                     | BSP 3/8 | 35  | 64  | 22  |
| 13   | PPT 13 FFB 12                                                                     | PPT 13 FFF 12                                                                     | BSP 1/2 | 44  | 74  | 27  |
| 16   | PPT 16 FFB 34                                                                     | PPT 16 FFF 34                                                                     | BSP 3/4 | 53  | 94  | 36  |
| 19   | PPT 19 FFB 10                                                                     | PPT 19 FFF 10                                                                     | BSP 1   | 60  | 106 | 41  |

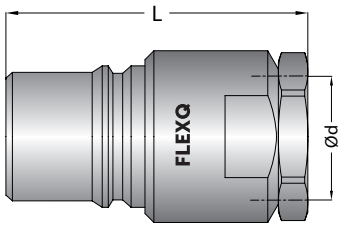


| Size |  |  | Ød        | Ød1 | L   | HEX |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|-----|-----|-----|
| 32   | PPT 32 FFB 10                                                                     | PPT 32 FFF 10                                                                     | BSP 1     | 70  | 114 | 60  |
| 32   | PPT 32 FFB 114                                                                    | PPT 32 FFF 114                                                                    | BSP 1-1/4 | 70  | 114 | 60  |
| 32   | PPT 32 FFB 112                                                                    | PPT 32 FFF 112                                                                    | BSP 1-1/2 | 70  | 114 | 60  |
| 38   | PPT 38 FFB 114                                                                    | PPT 38 FFF 114                                                                    | BSP 1-1/4 | 75  | 126 | 65  |
| 38   | PPT 38 FFB 112                                                                    | PPT 38 FFF 112                                                                    | BSP 1-1/2 | 75  | 126 | 65  |
| 50   | PPT 50 FFB 20                                                                     | PPT 50 FFF 20                                                                     | BSP 2     | 105 | 142 | 90  |
| 50   | PPT 50 FFB 212                                                                    | PPT 50 FFF 212                                                                    | BSP 2-1/2 | 110 | 167 | 100 |



| Size |  |  | Ød      | L  | HEX |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|----|-----|
| 4    | PPT 04 MFB 18                                                                       | PPT 04 MFF 18                                                                       | BSP 1/8 | 30 | 14  |
| 8    | PPT 08 MFB 14                                                                       | PPT 08 MFF 14                                                                       | BSP 1/4 | 35 | 19  |
| 10   | PPT 10 MFB 38                                                                       | PPT 10 MFF 38                                                                       | BSP 3/8 | 39 | 22  |
| 13   | PPT 13 MFB 12                                                                       | PPT 13 MFF 12                                                                       | BSP 1/2 | 36 | 27  |
| 16   | PPT 16 MFB 34                                                                       | PPT 16 MFF 34                                                                       | BSP 3/4 | 60 | 36  |
| 19   | PPT 19 MFB 10                                                                       | PPT 19 MFF 10                                                                       | BSP 1   | 65 | 41  |



| Female thread plug                                                                | Size |   |   | Ød        | L   | HEX |
|-----------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----|-----|
|  | 32   | PPT 32 MFB 10                                                                                                                                                       | PPT 32 MFF 10                                                                                                                                                          | BSP 1     | 114 | 60  |
|                                                                                   | 32   | PPT 32 MFB 114                                                                                                                                                      | PPT 32 MFF 114                                                                                                                                                         | BSP 1-1/4 | 114 | 60  |
|                                                                                   | 32   | PPT 32 MFB 112                                                                                                                                                      | PPT 32 MFF 112                                                                                                                                                         | BSP 1-1/2 | 114 | 60  |
|                                                                                   | 38   | PPT 38 MFB 114                                                                                                                                                      | PPT 38 MFF 114                                                                                                                                                         | BSP 1-1/4 | 126 | 65  |
|                                                                                   | 38   | PPT 38 MFB 112                                                                                                                                                      | PPT 38 MFF 112                                                                                                                                                         | BSP 1-1/2 | 126 | 65  |
|                                                                                   | 50   | PPT 50 MFB 20                                                                                                                                                       | PPT 50 MFF 20                                                                                                                                                          | BSP 2     | 142 | 90  |
|                                                                                   | 50   | PPT 50 MFB 212                                                                                                                                                      | PPT 50 MFF 212                                                                                                                                                         | BSP 2-1/2 | 167 | 100 |

| Technical Specifications                                                                   |           |  | Working Pressure |      |       |      |                                          |      |
|--------------------------------------------------------------------------------------------|-----------|--|------------------|------|-------|------|------------------------------------------|------|
| Size                                                                                       |           |  | Brass            |      | Steel |      | Stainless steel<br>(AISI 303 / AISI 316) |      |
|                                                                                            |           |  | Bar              | PSI  | Bar   | PSI  | Bar                                      | PSI  |
|  PPT 04 | BSP 1/8   |  | 210              | 3045 | 300   | 4350 | 300                                      | 4350 |
|  PPT 08 | BSP 1/4   |  | 185              | 2685 | 300   | 4350 | 300                                      | 4350 |
|  PPT 10 | BSP 3/8   |  | 150              | 2200 | 280   | 4050 | 280                                      | 4050 |
|  PPT 13 | BSP 1/2   |  | 160              | 2320 | 280   | 4050 | 280                                      | 4050 |
|  PPT 16 | BSP 3/4   |  | 138              | 2000 | 250   | 3625 | 250                                      | 3625 |
|  PPT 19 | BSP 1     |  | 105              | 1500 | 230   | 3350 | 230                                      | 3350 |
|  PPT 32 | BSP 1-1/4 |  | 85               | 1250 | 120   | 1750 | 120                                      | 1750 |
|  PPT 38 | BSP 1-1/2 |  | 105              | 1500 | 150   | 2175 | 150                                      | 2175 |
|  PPT 50 | BSP 2     |  | 50               | 725  | 104   | 4200 | 104                                      | 4200 |

# FLEXQ

■ MONOCOUPPLINGS FOR FLUIDS / SERIES PPT



**FLEXQ**  
CONNECTORS

**RPT**  
Ultra Flow Flat-Face



**LINKING PRECISION WITH PERFORMANCE**

11 Flow Sizes

RPT, leak-free fluid couplings for  
demanding low pressure applications

#### Characteristics

- Non-spill flat face
- Optimized flow characteristics
- Ergonomic design
- Large nominal diameters
- Available in stainless steel

#### Safe and quick locking

Depending on the size, the balls provide a reliable locking.  
The locking sleeve is ergonomically designed - thanks to these properties RPT series becomes a comfortable and safe quick connec/disconnect coupling system.



RPT  
ULTRA FLOW FLAT-FACE

## SERIE RPT

ULTRA FLOW FLAT FACE

-- PROFILE RPT --

### Options

- Colour coding
- Stainless steel
- High Temperature FFKM

R / B  
VA  
W

### Applications

- On thermo regulation
- Injection moulding
- Heating oil
- Steam lines
- Blow molding



### Materials

|              |                 |
|--------------|-----------------|
| Body Socket  | Brass           |
| Body Plug    | Stainless Steel |
| Sleeve       | Stainless Steel |
| Valve        | Brass           |
| Locking Ring | Stainless Steel |
| Spring       | Stainless Steel |
| Balls        | Stainless Steel |
| Seals        | FPM (V)         |



### Temperature range

|                             |   |                 |
|-----------------------------|---|-----------------|
| Nitril (NBR)                | N | - 15 °C +100 °C |
| Fluorcarbon (FPM)           | V | - 20 °C +180 °C |
| Ethylen Propylen (EPDM)*    | E | - 20 °C +150 °C |
| Perfluor Elastomer (FFKM)** | W | 0 °C +270 °C    |

\*EPDM seals cannot be used with mineral oils and fats

\*\*Stainless steel is recommended from 220 °C

RPT 03 RPT 06 RPT 08 RPT 10 RPT 12 RPT 16 RPT 20 RPT 25 RPT 32 RPT 38 RPT 50



Flow Size

3 6 8 10 12 16 20 25 32 38 50

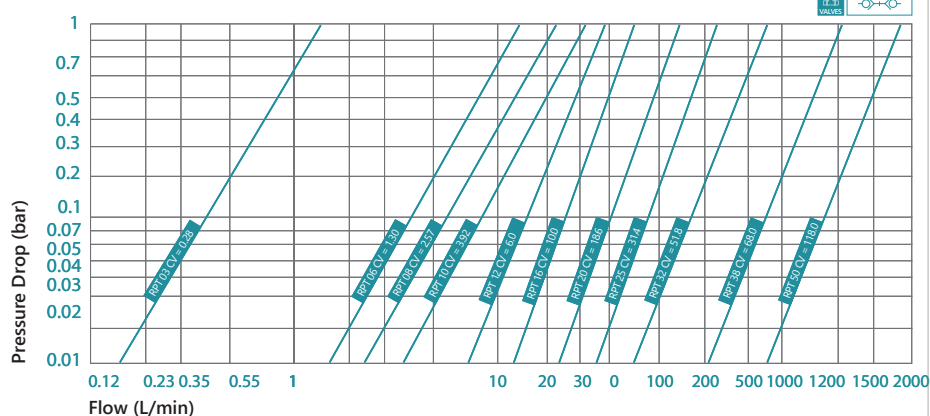


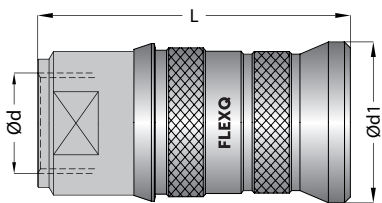
Pressure

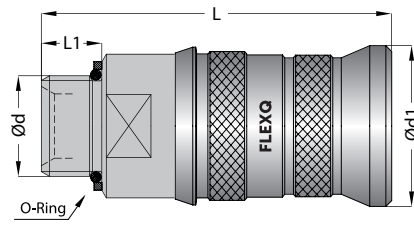
60 60 60 60 60 60 60 40 25 20 15

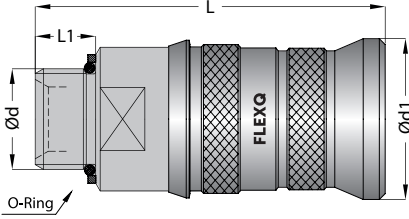
FLEXQ

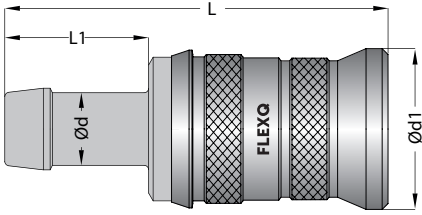
Serie RPT Flow Rate vs Pressure Drop Graph

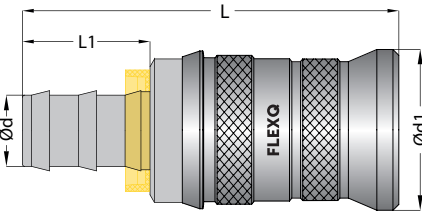


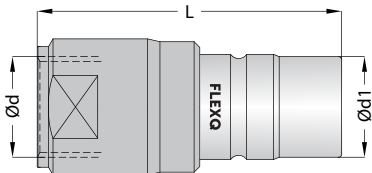
| Size |                | Ød        | Ød1  | L   | HEX | Female thread socket                                                                 |
|------|----------------|-----------|------|-----|-----|--------------------------------------------------------------------------------------|
| 3    | RPT 03 FFB 18  | BSP 1/8   | 16   | 40  | 13  |  |
|      | RPT 03 FNB 18  | NPT 1/8   | 16   | 40  | 13  |                                                                                      |
| 6    | RPT 06 FFB 14  | BSP 1/4   | 22   | 43  | 30  |                                                                                      |
|      | RPT 06 FNB 14  | NPT 1/4   | 22   | 43  | 30  |                                                                                      |
| 8    | RPT 08 FFB 14  | BSP 1/4   | 26.5 | 43  | 22  |                                                                                      |
|      | RPT 08 FNB 14  | NPT 1/4   | 26.5 | 43  | 22  |                                                                                      |
|      | RPT 08 FFB 38  | BSP 3/8   | 26.5 | 43  | 22  |                                                                                      |
|      | RPT 08 FNB 38  | NPT 3/8   | 26.5 | 43  | 22  |                                                                                      |
| 10   | RPT 18 FFB 38  | BSP 3/8   | 30   | 54  | 25  |                                                                                      |
|      | RPT 18 FNB 38  | NPT 3/8   | 30   | 54  | 25  |                                                                                      |
| 12   | RPT 12 FFB 12  | BSP 1/2   | 35   | 56  | 30  |                                                                                      |
|      | RPT 12 FNB 12  | NPT 1/2   | 35   | 56  | 30  |                                                                                      |
| 16   | RPT 16 FFB 34  | BSP 3/4   | 42   | 81  | 35  |                                                                                      |
|      | RPT 16 FNB 34  | NPT 3/4   | 42   | 83  | 35  |                                                                                      |
| 20   | RPT 20 FFB 10  | BSP 1     | 56   | 117 | 50  |                                                                                      |
|      | RPT 20 FNB 10  | NPT 1     | 56   | 117 | 50  |                                                                                      |
| 25   | RPT 25 FFB 10  | BSP 1     | 64   | 119 | 50  |                                                                                      |
|      | RPT 25 FNB 10  | NPT 1     | 64   | 119 | 50  |                                                                                      |
|      | RPT 25 FFB 114 | BSP 1-1/4 | 64   | 119 | 50  |                                                                                      |
|      | RPT 25 FNB 114 | NPT 1-1/4 | 64   | 119 | 50  |                                                                                      |
| 32   | RPT 32 FFB 114 | BSP 1-1/4 | 79   | 116 | 50  |                                                                                      |
|      | RPT 32 FNB 114 | NPT 1-1/4 | 79   | 116 | 50  |                                                                                      |
|      | RPT 32 FFB 112 | BSP 1-1/2 | 79   | 116 | 50  |                                                                                      |
|      | RPT 32 FNB 112 | NPT 1-1/2 | 79   | 116 | 50  |                                                                                      |
| 38   | RPT 38 FFB 112 | BSP 1-1/2 | 93   | 135 | 60  |                                                                                      |
|      | RPT 38 FNB 112 | NPT 1-1/2 | 93   | 135 | 60  |                                                                                      |
|      | RPT 38 FFB 20  | BSP 2     | 93   | 142 | 75  |                                                                                      |
|      | RPT 38 FNB 20  | NPT 2     | 93   | 142 | 75  |                                                                                      |
| 50   | RPT 50 FFB 20  | BSP 2     | 118  | 178 | 75  |                                                                                      |
|      | RPT 50 FNB 20  | NPT 2     | 118  | 178 | 75  |                                                                                      |
|      | RPT 50 FFB 212 | BSP 2-1/2 | 118  | 178 | 90  |                                                                                      |
|      | RPT 50 FNB 212 | NPT 2-1/2 | 118  | 178 | 90  |                                                                                      |

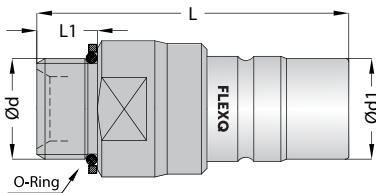
| Size |               | Ød      | Ød1  | L  | L1 | HEX | Male thread socket                                                                    |
|------|---------------|---------|------|----|----|-----|---------------------------------------------------------------------------------------|
| 3    | RPT 03 FOB 18 | BSP 1/8 | 16   | 39 | 7  | 14  |  |
| 6    | RPT 06 FOB 14 | BSP 1/4 | 22   | 43 | 10 | 19  |                                                                                       |
|      | RPT 06 FOB 38 | BSP 3/8 | 22   | 43 | 10 | 20  |                                                                                       |
| 8    | RPT 08 FOB 14 | BSP 1/4 | 26.5 | 43 | 10 | 22  |                                                                                       |
|      | RPT 08 FOB 38 | BSP 3/8 | 26.5 | 44 | 11 | 22  |                                                                                       |
| 10   | RPT 10 FOB 38 | BSP 3/8 | 29   | 52 | 11 | 25  |                                                                                       |
|      | RPT 10 FOB 12 | BSP 1/2 | 29   | 53 | 12 | 25  |                                                                                       |
| 12   | RPT 12 FOB 38 | BSP 3/8 | 35   | 54 | 11 | 30  |                                                                                       |
|      | RPT 12 FOB 12 | BSP 1/2 | 35   | 55 | 12 | 30  |                                                                                       |
| 16   | RPT 16 FOB 12 | BSP 1/2 | 42   | 80 | 12 | 35  |                                                                                       |
|      | RPT 16 FOB 34 | BSP 3/4 | 42   | 83 | 16 | 35  |                                                                                       |

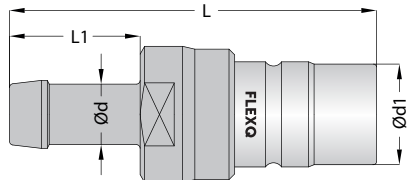
| Male thread Socket                                                                | Size |                | Ød        | Ød1 | L   | L1 | HEX |
|-----------------------------------------------------------------------------------|------|----------------|-----------|-----|-----|----|-----|
|  | 20   | RPT 20 FOB 34  | BSP 3/4   | 56  | 114 | 16 | 50  |
|                                                                                   |      | RPT 20 FOB 10  | BSP 1     | 56  | 117 | 19 | 50  |
|                                                                                   | 25   | RPT 25 FOB 10  | BSP 1     | 64  | 128 | 19 | 55  |
|                                                                                   |      | RPT 25 FOB 114 | BSP 1-1/4 | 64  | 128 | 19 | 55  |
|                                                                                   | 32   | RPT 32 FOB 114 | BSP 1-1/4 | 79  | 126 | 19 | 55  |
|                                                                                   |      | RPT 32 FOB 112 | BSP 1-1/2 | 79  | 129 | 22 | 60  |
|                                                                                   | 38   | RPT 38 FOB 112 | BSP 1-1/2 | 93  | 139 | 22 | 60  |
|                                                                                   |      | RPT 38 FOB 20  | BSP 2     | 93  | 140 | 23 | 65  |
|                                                                                   | 50   | RPT 50 FOB 20  | BSP 2     | 118 | 177 | 23 | 75  |
|                                                                                   |      | RPT 50 FOB 212 | BSP 2-1/2 | 118 | 184 | 25 | 90  |

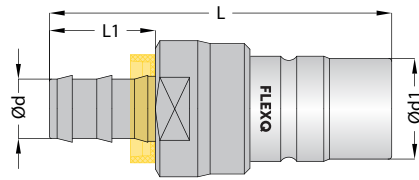
| Standard hose tail socket                                                           | Size |               | Ød    | Ød1  | L  | L1 |
|-------------------------------------------------------------------------------------|------|---------------|-------|------|----|----|
|  | 3    | RPT 03 FHB 03 | 3 mm  | 16   | 50 | 18 |
|                                                                                     |      | RPT 03 FHB 06 | 6 mm  | 16   | 55 | 23 |
|                                                                                     | 6    | RPT 06 FHB 06 | 6 mm  | 22   | 56 | 23 |
|                                                                                     |      | RPT 06 FHB 08 | 8 mm  | 22   | 56 | 23 |
|                                                                                     | 8    | RPT 08 FHB 08 | 8 mm  | 26.5 | 58 | 23 |
|                                                                                     |      | RPT 08 FHB 10 | 10 mm | 26.5 | 58 | 23 |
|                                                                                     | 10   | RPT 10 FHB 10 | 10 mm | 30   | 65 | 23 |
|                                                                                     |      | RPT 10 FHB 12 | 12 mm | 30   | 70 | 28 |
|                                                                                     | 12   | RPT 12 FHB 12 | 12 mm | 35   | 69 | 28 |
|                                                                                     |      | RPT 12 FHB 16 | 16 mm | 35   | 69 | 28 |
|                                                                                     | 16   | RPT 16 FHB 16 | 16 mm | 42   | 91 | 28 |
|                                                                                     |      | RPT 16 FHB 19 | 19 mm | 42   | 97 | 33 |

| Clampless hose tail socket                                                          | Size |               | Ød    | Ød1  | L   | L1 |
|-------------------------------------------------------------------------------------|------|---------------|-------|------|-----|----|
|  | 6    | RPT 06 FPB 06 | 6 mm  | 22   | 57  | 24 |
|                                                                                     | 8    | RPT 08 FPB 10 | 10 mm | 26.5 | 59  | 28 |
|                                                                                     | 10   | RPT 10 FPB 10 | 10 mm | 30   | 66  | 24 |
|                                                                                     |      | RPT 10 FPB 13 | 13 mm | 30   | 71  | 28 |
|                                                                                     | 12   | RPT 12 FPB 13 | 13 mm | 35   | 69  | 28 |
|                                                                                     |      | RPT 12 FPB 16 | 16 mm | 35   | 69  | 28 |
|                                                                                     | 16   | RPT 16 FPB 16 | 16 mm | 42   | 92  | 28 |
|                                                                                     |      | RPT 16 FPB 19 | 19 mm | 42   | 102 | 38 |

| Size |                | Ød        | Ød1  | L    | HEX | Female thread plug                                                                  |
|------|----------------|-----------|------|------|-----|-------------------------------------------------------------------------------------|
| 3    | RPT 03 MFB 18  | BSP 1/8   | 7.7  | 32.5 | 13  |  |
|      | RPT 03 MNB 18  | NPT 1/8   | 7.7  | 32.5 | 13  |                                                                                     |
| 6    | RPT 06 MFB 14  | BSP 1/4   | 11.7 | 44   | 17  |                                                                                     |
|      | RPT 06 MNB 14  | NPT 1/4   | 11.7 | 44   | 17  |                                                                                     |
| 8    | RPT 08 MFB 14  | BSP 1/4   | 14.3 | 53   | 17  |                                                                                     |
|      | RPT 08 MNB 14  | NPT 1/4   | 14.3 | 53   | 17  |                                                                                     |
|      | RPT 08 MFB 38  | BSP 3/8   | 14.3 | 53   | 17  |                                                                                     |
|      | RPT 08 MNB 38  | NPT 3/8   | 14.3 | 53   | 17  |                                                                                     |
| 10   | RPT 18 MFB 38  | BSP 3/8   | 17.5 | 64   | 25  |                                                                                     |
|      | RPT 18 MNB 38  | NPT 3/8   | 17.5 | 64   | 25  |                                                                                     |
| 12   | RPT 12 MFB 12  | BSP 1/2   | 20.5 | 68   | 30  |                                                                                     |
|      | RPT 12 MNB 12  | NPT 1/2   | 20.5 | 68   | 30  |                                                                                     |
| 16   | RPT 16 MFB 34  | BSP 3/4   | 27   | 73   | 35  |                                                                                     |
|      | RPT 16 MNB 34  | NPT 3/4   | 27   | 75   | 35  |                                                                                     |
| 20   | RPT 20 MFB 10  | BSP 1     | 34   | 98   | 41  |                                                                                     |
|      | RPT 20 MNB 10  | NPT 1     | 34   | 99   | 41  |                                                                                     |
| 25   | RPT 25 MFB 10  | BSP 1     | 41.5 | 97   | 50  |                                                                                     |
|      | RPT 25 MNB 10  | NPT 1     | 41.5 | 98   | 50  |                                                                                     |
|      | RPT 25 MFB 114 | BSP 1-1/4 | 41.5 | 97   | 50  |                                                                                     |
|      | RPT 25 MNB 114 | NPT 1-1/4 | 41.5 | 98   | 50  |                                                                                     |
| 32   | RPT 32 MFB 114 | BSP 1-1/4 | 53   | 102  | 50  |                                                                                     |
|      | RPT 32 MNB 114 | NPT 1-1/4 | 53   | 102  | 50  |                                                                                     |
|      | RPT 32 MFB 112 | BSP 1-1/2 | 53   | 104  | 60  |                                                                                     |
|      | RPT 32 MNB 112 | NPT 1-1/2 | 53   | 104  | 60  |                                                                                     |
| 38   | RPT 38 MFB 112 | BSP 1-1/2 | 66   | 112  | 60  |                                                                                     |
|      | RPT 38 MNB 112 | NPT 1-1/2 | 66   | 112  | 60  |                                                                                     |
|      | RPT 38 MFB 20  | BSP 2     | 66   | 116  | 75  |                                                                                     |
|      | RPT 38 MNB 20  | NPT 2     | 66   | 116  | 75  |                                                                                     |
| 50   | RPT 50 MFB 20  | BSP 2     | 82.5 | 144  | 75  |                                                                                     |
|      | RPT 50 MNB 20  | NPT 2     | 82.5 | 144  | 75  |                                                                                     |
|      | RPT 50 MFB 212 | BSP 2-1/2 | 82.5 | 147  | 90  |                                                                                     |
|      | RPT 50 MNB 212 | NPT 2-1/2 | 82.5 | 147  | 90  |                                                                                     |

| Male thread plug with O-Ring                                                      |                |  Size |  | Ød   | Ød1 | L  | L1 | HEX |
|-----------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|-----|----|----|-----|
|  | 3              | RPT 03 MOB 18                                                                          | BSP 1/8                                                                           | 7.7  | 32  | 7  | 13 |     |
|                                                                                   | 6              | RPT 06 MOB 14                                                                          | BSP 1/4                                                                           | 11.7 | 45  | 10 | 17 |     |
|                                                                                   | 8              | RPT 08 MOB 14                                                                          | BSP 1/4                                                                           | 14.3 | 52  | 10 | 22 |     |
|                                                                                   |                | RPT 08 MOB 38                                                                          | BSP 3/8                                                                           | 14.3 | 53  | 11 | 22 |     |
|                                                                                   | 10             | RPT 10 MOB 38                                                                          | BSP 3/8                                                                           | 17.5 | 61  | 11 | 25 |     |
|                                                                                   |                | RPT 10 MOB 12                                                                          | BSP 1/2                                                                           | 17.5 | 62  | 12 | 25 |     |
|                                                                                   | 12             | RPT 12 MOB 38                                                                          | BSP 3/8                                                                           | 20.5 | 66  | 11 | 30 |     |
|                                                                                   |                | RPT 12 MOB 12                                                                          | BSP 1/2                                                                           | 20.5 | 67  | 12 | 30 |     |
|                                                                                   | 16             | RPT 16 MOB 12                                                                          | BSP 1/2                                                                           | 27   | 69  | 12 | 35 |     |
|                                                                                   |                | RPT 16 MOB 34                                                                          | BSP 3/4                                                                           | 27   | 73  | 16 | 35 |     |
|                                                                                   | 20             | RPT 20 MOB 34                                                                          | BSP 3/4                                                                           | 34   | 92  | 16 | 41 |     |
|                                                                                   |                | RPT 20 MOB 10                                                                          | BSP 1                                                                             | 34   | 95  | 19 | 41 |     |
|                                                                                   | 25             | RPT 25 MOB 10                                                                          | BSP 1                                                                             | 41.5 | 102 | 19 | 50 |     |
|                                                                                   |                | RPT 25 MOB 114                                                                         | BSP 1-1/4                                                                         | 41.5 | 102 | 19 | 50 |     |
|                                                                                   | 32             | RPT 32 MOB 114                                                                         | BSP 1 1/4                                                                         | 53   | 110 | 19 | 55 |     |
|                                                                                   |                | RPT 32 MOB 112                                                                         | BSP 1-1/2                                                                         | 53   | 113 | 22 | 60 |     |
| 38                                                                                | RPT 38 MOB 112 | BSP 1 1/2                                                                              | 66                                                                                | 122  | 22  | 60 |    |     |
|                                                                                   | RPT 38 MOB 20  | BSP 2                                                                                  | 66                                                                                | 128  | 23  | 70 |    |     |
| 50                                                                                | RPT 50 MOB 20  | BSP 2                                                                                  | 82.5                                                                              | 151  | 23  | 75 |    |     |
|                                                                                   | RPT 50 MOB 212 | BSP 2-1/2                                                                              | 82.5                                                                              | 153  | 25  | 90 |    |     |

| Size |               | Ød    | Ød1  | L  | L1 | Standard hose tail plug                                                             |
|------|---------------|-------|------|----|----|-------------------------------------------------------------------------------------|
| 3    | RPT 03 MHB 03 | 3 mm  | 7.7  | 43 | 18 |  |
|      | RPT 03 MHB 06 | 6 mm  | 7.7  | 48 | 23 |                                                                                     |
| 6    | RPT 06 MHB 06 | 6 mm  | 11.7 | 58 | 23 |                                                                                     |
|      | RPT 06 MHB 08 | 8 mm  | 11.7 | 58 | 23 |                                                                                     |
| 8    | RPT 08 MHB 08 | 8 mm  | 14.3 | 64 | 23 |                                                                                     |
|      | RPT 08 MHB 10 | 10 mm | 14.3 | 64 | 23 |                                                                                     |
| 10   | RPT 10 MHB 10 | 10 mm | 17.5 | 75 | 23 |                                                                                     |
|      | RPT 10 MHB 12 | 12 mm | 17.5 | 80 | 28 |                                                                                     |
| 12   | RPT 12 MHB 12 | 12 mm | 20.5 | 81 | 28 |                                                                                     |
|      | RPT 12 MHB 16 | 16 mm | 20.5 | 81 | 28 |                                                                                     |
| 16   | RPT 16 MHB 16 | 16 mm | 27   | 84 | 28 |                                                                                     |
|      | RPT 16 MHB 19 | 19 mm | 27   | 89 | 33 |                                                                                     |

| Size |               | Ød    | Ød1  | L  | L1 | Clampless hose tail plug                                                              |
|------|---------------|-------|------|----|----|---------------------------------------------------------------------------------------|
| 6    | RPT 06 MPB 06 | 6 mm  | 11.7 | 59 | 24 |  |
| 8    | RPT 08 MPB 10 | 10 mm | 14.3 | 65 | 28 |                                                                                       |
| 10   | RPT 10 MPB 10 | 10 mm | 17.5 | 75 | 23 |                                                                                       |
|      | RPT 10 MPB 13 | 13 mm | 17.5 | 80 | 28 |                                                                                       |
| 12   | RPT 12 MPB 13 | 13 mm | 20.5 | 81 | 28 |                                                                                       |
|      | RPT 12 MPB 16 | 16 mm | 20.5 | 81 | 28 |                                                                                       |
| 16   | RPT 16 MPB 16 | 16 mm | 27   | 85 | 28 |                                                                                       |
|      | RPT 16 MPB 19 | 19 mm | 27   | 95 | 38 |                                                                                       |

**SPF**  
High Flow Flat-Face



**LINKING PRECISION WITH PERFORMANCE**

## SPF, leak-free hydraulic couplings with residual pressure relief valve for demanding hydraulic applications

### Characteristics / Eigenschaf-

- Non-spill flat face
- Optimized flow characteristics
- One-hand connection
- Low pressure drop

### Safe and quick locking

Depending on the size, the balls provide a reliable locking. The locking sleeve is ergonomically designed - thanks to these properties SPF series become a comfortable and safe quick connecting and disconnecting coupling system.

### Pressure relief valve

Reducing of the residual pressure by an integrated pressure relief valve on the socket or plug.



# SPF

HIGH FLOW FLAT-FACE

### SERIE SPF

#### HYDRAULIC

#### Options

- Colour coding
- pressure relief valve

R / B  
P

#### Applications

- Testing units
- Injection moulding
- Cores

|             | Materials                |
|-------------|--------------------------|
| Body Socket | Stainless steel          |
| Body Plug   | Hardened stainless steel |
| Sleeve      | Hardened steel           |
| Valve       | Stainless steel          |
| Spring      | Stainless steel          |
| Balls       | Stainless steel          |
| Seals       | Nitrile (N)              |

|        |                                                                                    |
|--------|------------------------------------------------------------------------------------|
| VALVES |  |
|--------|------------------------------------------------------------------------------------|

|      |                   |
|------|-------------------|
| max. | Temperature range |
|------|-------------------|

|                   |   |                 |
|-------------------|---|-----------------|
| Nitril (NBR)      | N | - 15 °C +100 °C |
| Fluorcarbon (FPM) | V | - 20 °C +200 °C |

#### SPF 07 SPF 08 SPF 11 SPF 12



Flow Size

7 8 11 12

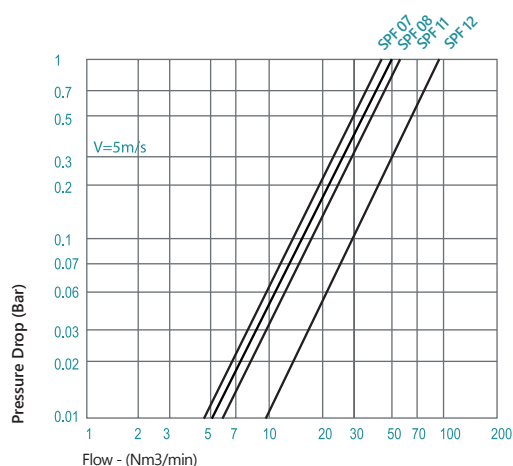


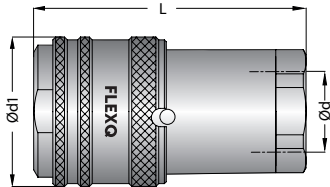
Pressure

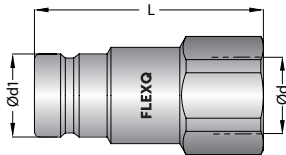
450 450 350 350



Please note the operating instructions for hydraulic couplings



| Size |               | Ød      | Ød1  | L1   | HEX | Female thread socket                                                                |
|------|---------------|---------|------|------|-----|-------------------------------------------------------------------------------------|
| 7    | SPF 07 FFB 38 | BSP 3/8 | 31.5 | 58   | 25  |  |
| 8    | SPF 08 FFB 12 | BSP 1/2 | 39   | 59.5 | 30  |                                                                                     |
| 11   | SPF 11 FFB 12 | BSP 1/2 | 39   | 72   | 30  |                                                                                     |
| 12   | SPF 12 FFB 34 | BSP 3/4 | 50   | 72   | 41  |                                                                                     |

| Size |               | Ød      | Ød1  | L1   | HEX | Female thread plug                                                                    |
|------|---------------|---------|------|------|-----|---------------------------------------------------------------------------------------|
| 7    | SPF 07 MFB 38 | BSP 3/8 | 18   | 50.3 | 22  |  |
| 8    | SPF 08 MFB 12 | BSP 1/2 | 22.8 | 63   | 30  |                                                                                       |
| 11   | SPF 11 MFB 12 | BSP 1/2 | 22.8 | 63   | 30  |                                                                                       |
| 12   | SPF 12 MFB 34 | BSP 3/4 | 30.8 | 74   | 36  |                                                                                       |

**SXF**  
High Flow Flat-Face



**LINKING PRECISION WITH PERFORMANCE**

## SXF, leak-free hydraulic couplings with residual pressure relief valve for demanding hydraulic applications

### Characteristics

- Non-spill flat face
- Optimized flow characteristics
- One-hand connection
- Low pressure drop

### Safe and quick locking

Depending on the size, the balls provide a reliable locking.  
The locking sleeve is ergonomically designed - thanks to these properties SPF series become a comfortable and safe quick connecting and disconnecting coupling system.

### Pressure relief valve

Reducing of the residual pressure by a integrated pressure relief valve on the socket or plug.

# SXF

COOLING STANDARD



### SERIE SXF

HYDRAULIC

#### Options

- Colour coding
- Pressure relief valve

R / B  
P

#### Applications

- Testing units
- Injection moulding
- Cores

|             | Materials       |
|-------------|-----------------|
| Body Socket | Stainless steel |
| Body Plug   | Stainless steel |
| Sleeve      | Stainless steel |
| Valve       | Stainless steel |
| Spring      | Stainless steel |
| Balls       | Stainless steel |
| Seals       | Viton (V)       |



#### Temperature range

|                   |   |                 |
|-------------------|---|-----------------|
| Nitril (NBR)      | N | - 15 °C +100 °C |
| Fluorcarbon (FPM) | V | -20 °C +200 °C  |

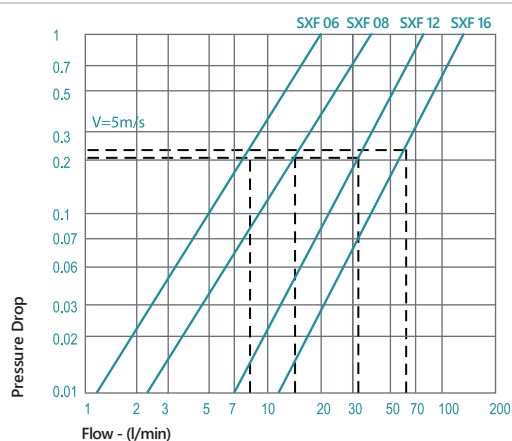
|          |           | SXF 06 | SXF 08 | SXF12 | SXF16 |
|----------|-----------|--------|--------|-------|-------|
| mm       | Flow Size | 6      | 8      | 12    | 16    |
| max. bar | Pressure  | 450    | 450    | 350   | 350   |



Always make sure that no medium is flowing before disconnecting

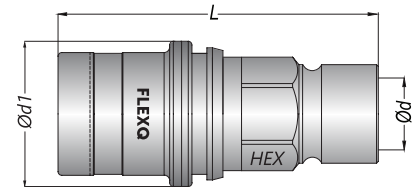
**FLEXQ**

#### Series SXF - Flow Rate & Pressure Drop Graph



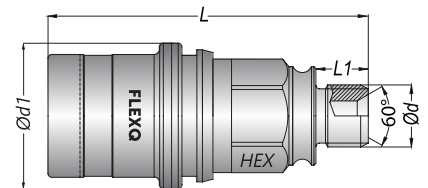
| Size |               | Ød      | Ød1 | L   | HEX |
|------|---------------|---------|-----|-----|-----|
| 6    | SXF 06 FFB 38 | BSP 3/8 | 39  | 77  | 27  |
|      | SXF 06 FNB 38 | NPT 3/8 | 39  | 75  | 27  |
| 8    | SXF 08 FFB 12 | BSP 1/2 | 47  | 90  | 32  |
|      | SXF 08 FNB 12 | NPT 1/2 | 47  | 87  | 32  |
| 12   | SXF 12 FFB 34 | BSP 3/4 | 59  | 103 | 41  |
|      | SXF 12 FNB 34 | NPT 3/4 | 59  | 99  | 41  |
| 16   | SXF 16 FFB 34 | BSP 3/4 | 69  | 117 | 50  |
|      | SXF 16 FNB 34 | NPT 3/4 | 69  | 114 | 50  |

Cylindrical female thread socket



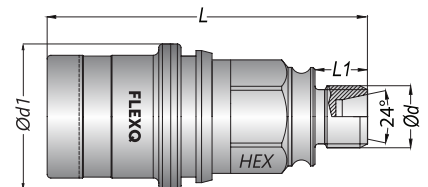
| Size |               | Ød      | Ød1 | L    | L1 | HEX |
|------|---------------|---------|-----|------|----|-----|
| 6    | SXF 06 FMB 38 | BSP 3/8 | 39  | 66.5 | 12 | 27  |
| 8    | SXF 08 FMB 12 | BSP 1/2 | 47  | 75   | 14 | 32  |
| 12   | SXF 12 FMB 34 | BSP 3/4 | 59  | 90   | 16 | 41  |
| 16   | SXF 16 FMB 34 | BSP 3/4 | 69  | 105  | 16 | 50  |

Cylindrical male thread socket

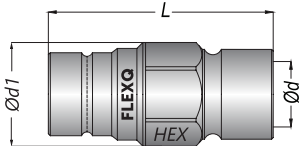


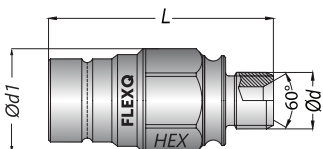
| Size |                    | Ød      | Ød1 | L   | L1 | HEX |
|------|--------------------|---------|-----|-----|----|-----|
| 6    | SXF 06 FMB 1815-10 | M18x1.5 | 39  | 65  | 12 | 27  |
| 8    | SXF 08 FMB 2015-12 | M20x1.5 | 47  | 75  | 12 | 32  |
| 8    | SXF 08 FMB 2415-16 | M24x1.5 | 47  | 75  | 14 | 32  |
| 12   | SXF 12 FMB 2415-16 | M24x1.5 | 59  | 89  | 14 | 41  |
| 12   | SXF 12 FMB 3020-20 | M30x2.0 | 59  | 89  | 16 | 41  |
| 16   | SXF 16 FMB 3020-20 | M30x2.0 | 69  | 105 | 16 | 50  |
| 16   | SXF 16 FMB 3620-25 | M36x2.0 | 69  | 105 | 18 | 50  |

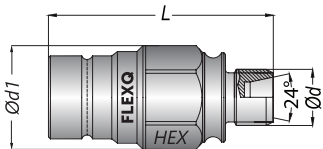
Male thread socket



Male thread for hydraulic pipes with  
24° taper according to ISO 8434-1 (type: S)

| Cylindrical female thread plug                                                    | Size |               | Ød      | Ød1  | L  | HEX |
|-----------------------------------------------------------------------------------|------|---------------|---------|------|----|-----|
|  | 6    | SXF 06 MFB 38 | BSP 3/8 | 30.5 | 62 | 27  |
|                                                                                   |      | SXF 06 MNB 38 | NPT 3/8 | 30.5 | 62 | 27  |
|                                                                                   | 8    | SXF 08 MFB 12 | BSP 1/2 | 35.5 | 73 | 32  |
|                                                                                   |      | SXF 08 MNB 12 | NPT 1/2 | 35.5 | 70 | 32  |
|                                                                                   | 12   | SXF 12 MFB 34 | BSP 3/4 | 46   | 84 | 41  |
|                                                                                   |      | SXF 12 MNB 34 | NPT 3/4 | 46   | 80 | 41  |
|                                                                                   | 16   | SXF 16 MFB 34 | BSP 3/4 | 56.5 | 94 | 50  |
|                                                                                   |      | SXF 16 MNB 34 | NPT 3/4 | 56.5 | 91 | 50  |

| Cylindrical male thread plug                                                       | Size |               | Ød      | Ød1  | L  | L1 | HEX |
|------------------------------------------------------------------------------------|------|---------------|---------|------|----|----|-----|
|  | 6    | SXF 06 MMB 38 | BSP 3/8 | 30.5 | 50 | 12 | 27  |
|                                                                                    | 8    | SXF 08 MMB 12 | BSP 1/2 | 35.5 | 58 | 14 | 32  |
|                                                                                    | 12   | SXF 12 MMB 34 | BSP 3/4 | 46   | 71 | 16 | 41  |
|                                                                                    | 16   | SXF 16 MMB 34 | BSP 3/4 | 56.5 | 83 | 16 | 50  |

| Male thread plug                                                                                                                                                            | Size |                    | Ød      | Ød1  | L  | L1 | HEX |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------|---------|------|----|----|-----|
|  <p>Male thread for hydraulic pipes with 24° taper according to ISO 8434-1 (type: S)</p> | 6    | SXF 06 MMB 1815-10 | M18x1.5 | 30.5 | 50 | 12 | 27  |
|                                                                                                                                                                             | 8    | SXF 08 MMB 2015-12 | M20x1.5 | 35.5 | 58 | 12 | 32  |
|                                                                                                                                                                             | 8    | SXF 08 MMB 2415-16 | M24x1.5 | 35.5 | 58 | 14 | 32  |
|                                                                                                                                                                             | 12   | SXF 12 MMB 2415-16 | M24x1.5 | 46   | 70 | 14 | 41  |
|                                                                                                                                                                             | 12   | SXF 12 MMB 3020-20 | M30x2.0 | 46   | 70 | 16 | 41  |
|                                                                                                                                                                             | 16   | SXF 16 MMB 3020-20 | M30x2.0 | 56.5 | 83 | 16 | 50  |
|                                                                                                                                                                             | 16   | SXF 16 MMB 3620-25 | M36x2.0 | 56.5 | 83 | 18 | 50  |

| <br>max. bar | Max. Residual pressure for connection under pressure (bar) |        |        |        |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------|--------|--------|
|                                                                                                 | SXF 06                                                     | SXF 08 | SXF 12 | SXF 16 |
|                                                                                                 | 150                                                        | 150    | 150    | 150    |
|                                                                                                 | 60                                                         | 60     | 60     | 60     |

# FLEXQ

■ MONOCOUPPLINGS FOR FLUIDS / SERIES SXF



**FLEXQ**  
CONNECTORS

**UPT**  
French Standard Profile for Cooling



**LINKING PRECISION WITH PERFORMANCE**

## UPT, the French standard quick coupling system for low pressure applications

### Characteristics

- One-hand connection
- High quality materials
- Compact and ergonomic design
- Easy sealing concept
- Extensive range
- Available in 3 diameters
- Colour coding

### Clampless hose system

- Allows time-saving assembly without using hose clamps
- Space saving
- Reduces the risk of injury from sharp clamps
- Extensive application possibilities

### Easy sealing concept

The external O-ring on the plug can be replaced quickly and easily.



UPT  
FULL FLOW

VALVES

## SERIE UPT

PROFILE FRENCH

### Options

- Colour coding
- Stainless Steel
- Safety locking
- High Temperature

R / B  
VA  
S  
HT

### Applications

- Cooling and heating
- Injection moulding



### Materials

|              |                 |
|--------------|-----------------|
| Body Socket  | Brass           |
| Body Plug    | Brass           |
| Sleeve       | Brass           |
| Valve        | Brass           |
| Locking Ring | Stainless steel |
| Spring       | Stainless steel |
| Balls        | Stainless steel |
| Seals        | Nitrile (N)     |



### Temperature range

|                   |   |                                                          |
|-------------------|---|----------------------------------------------------------|
| Nitril (NBR)      | N | - 15 °C +100 °C                                          |
| Fluorcarbon (FPM) | V | - 20 °C +160 °C (Water)<br>- 20 °C +200 °C (Heating Oil) |



### Flow Size

UPT 06 UPT 08 UPT 12

6 8 12



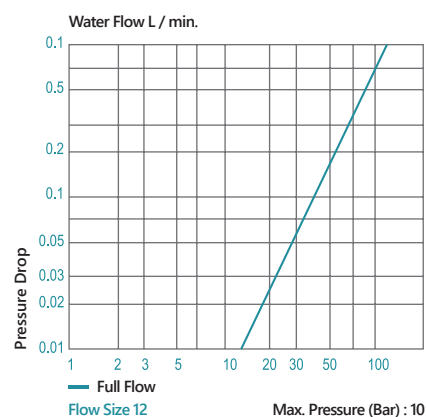
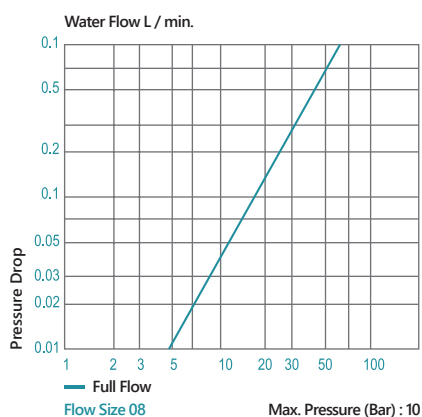
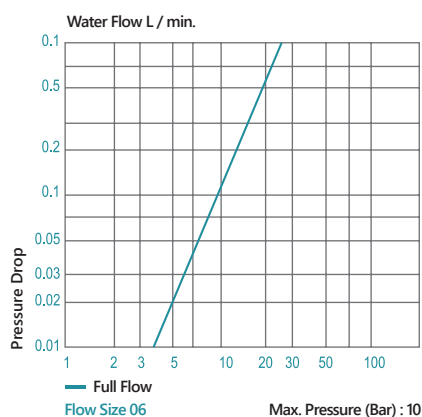
### Pressure

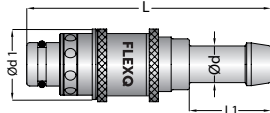
10 10 10

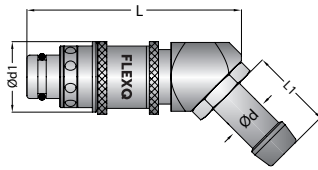
Always make sure that no medium is flowing before disconnecting  
The use of this series at media temperatures above 100°C is not recommended

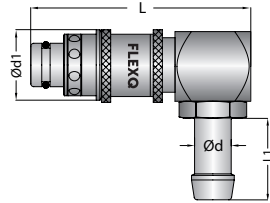
**FLEXQ**

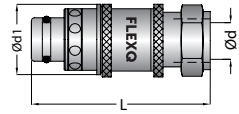
### Series UPT - Flow Rate & Pressure Drop Graph



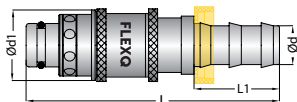
| Size |               | Ød    | Ød1  | L  | L1 | Standard hose tail plug                                                             |
|------|---------------|-------|------|----|----|-------------------------------------------------------------------------------------|
| 6    | UPT 06 MHF 06 | 6 mm  | 17   | 55 | 23 |  |
|      | UPT 06 MHF 08 | 8 mm  | 17   | 55 | 23 |                                                                                     |
| 8    | UPT 08 MHF 06 | 6 mm  | 20   | 57 | 23 |                                                                                     |
|      | UPT 08 MHF 08 | 8 mm  | 20   | 62 | 23 |                                                                                     |
|      | UPT 08 MHF 10 | 10 mm | 20   | 62 | 23 |                                                                                     |
|      | UPT 08 MHF 12 | 12 mm | 20   | 66 | 23 |                                                                                     |
|      | UPT 08 MHF 13 | 13 mm | 20   | 62 | 23 |                                                                                     |
| 12   | UPT 12 MHF 13 | 13 mm | 27.5 | 77 | 33 |                                                                                     |
|      | UPT 12 MHF 16 | 16 mm | 27.5 | 77 | 33 |                                                                                     |
|      | UPT 12 MHF 19 | 19 mm | 27.5 | 77 | 33 |                                                                                     |

| Size |                  | Ød    | Ød1  | L  | L1 | Standard hose tail plug 45°                                                          |
|------|------------------|-------|------|----|----|--------------------------------------------------------------------------------------|
| 8    | UPT 08 MHF 06-45 | 6 mm  | 20   | 55 | 23 |  |
|      | UPT 08 MHF 08-45 | 8 mm  | 20   | 55 | 23 |                                                                                      |
|      | UPT 08 MHF 10-45 | 10 mm | 20   | 55 | 23 |                                                                                      |
|      | UPT 08 MHF 12-45 | 12 mm | 20   | 55 | 23 |                                                                                      |
|      | UPT 08 MHF 13-45 | 13 mm | 20   | 55 | 23 |                                                                                      |
| 12   | UPT 12 MHF 13-45 | 13 mm | 27.5 | 65 | 33 |                                                                                      |
|      | UPT 12 MHF 16-45 | 16 mm | 27.5 | 65 | 33 |                                                                                      |
|      | UPT 12 MHF 19-45 | 19 mm | 27.5 | 65 | 33 |                                                                                      |

| Size |                  | Ød    | Ød1  | L  | L1 | Standard hose tail plug 90°                                                           |
|------|------------------|-------|------|----|----|---------------------------------------------------------------------------------------|
| 8    | UPT 08 MHF 06-90 | 6 mm  | 20   | 55 | 23 |  |
|      | UPT 08 MHF 08-90 | 8 mm  | 20   | 55 | 23 |                                                                                       |
|      | UPT 08 MHF 10-90 | 10 mm | 20   | 55 | 23 |                                                                                       |
|      | UPT 08 MHF 12-90 | 12 mm | 20   | 55 | 23 |                                                                                       |
|      | UPT 08 MHF 13-90 | 13 mm | 20   | 55 | 23 |                                                                                       |
| 12   | UPT 12 MHF 13-90 | 13 mm | 27.5 | 65 | 33 |                                                                                       |
|      | UPT 12 MHF 16-90 | 16 mm | 27.5 | 65 | 33 |                                                                                       |
|      | UPT 12 MHF 19-90 | 19 mm | 27.5 | 65 | 33 |                                                                                       |

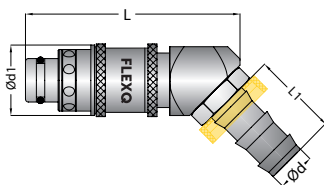
| Size |               | Ød      | Ød1  | L  | HEX | Female thread plug                                                                    |
|------|---------------|---------|------|----|-----|---------------------------------------------------------------------------------------|
| 8    | UPT 08 MFF 14 | BSP 1/4 | 20   | 44 | 17  |  |
|      | UPT 08 MNF 14 | NPT 1/4 | 20   | 44 | 17  |                                                                                       |
|      | UPT 08 MFF 38 | BSP 3/8 | 20   | 53 | 19  |                                                                                       |
|      | UPT 08 MNF 38 | NPT 3/8 | 20   | 52 | 19  |                                                                                       |
| 12   | UPT 12 MFF 38 | BSP 3/8 | 27.5 | 60 | 22  |                                                                                       |
|      | UPT 12 MFF 12 | BSP 1/2 | 27.5 | 60 | 24  |                                                                                       |
|      | UPT 12 MNF 12 | NPT 1/2 | 27.5 | 64 | 24  |                                                                                       |

Clampless hose tail plug



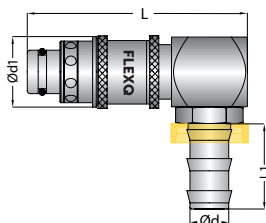
| Size |               | Ød    | Ød1  | L  | L1 |
|------|---------------|-------|------|----|----|
| 8    | UPT 08 MPF 10 | 10 mm | 20   | 62 | 24 |
|      | UPT 08 MPF 13 | 13 mm | 20   | 69 | 28 |
| 12   | UPT 12 MPF 13 | 13 mm | 27.5 | 73 | 28 |
|      | UPT 12 MPF 16 | 16 mm | 27.5 | 82 | 38 |

Clampless hose tail plug 45°



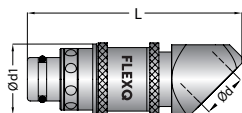
| Size |                  | Ød    | Ød1  | L  | L1 |
|------|------------------|-------|------|----|----|
| 8    | UPT 08 MPF 10-45 | 10 mm | 20   | 55 | 24 |
|      | UPT 08 MPF 13-45 | 13 mm | 20   | 55 | 28 |
| 12   | UPT 12 MPF 13-45 | 13 mm | 27.5 | 65 | 28 |
|      | UPT 12 MPF 16-45 | 16 mm | 27.5 | 65 | 38 |

Clampless hose tail plug 90°



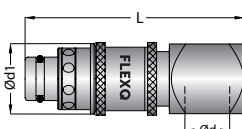
| Size |                  | Ød    | Ød1  | L  | L1 |
|------|------------------|-------|------|----|----|
| 8    | UPT 08 MPF 10-90 | 10 mm | 20   | 55 | 24 |
|      | UPT 08 MPF 13-90 | 13 mm | 20   | 55 | 28 |
| 12   | UPT 12 MPF 13-90 | 13 mm | 27.5 | 65 | 28 |
|      | UPT 12 MPF 16-90 | 16 mm | 27.5 | 65 | 38 |

Female thread plug 45°



| Size |                  | Ød      | Ød1  | L  |
|------|------------------|---------|------|----|
| 8    | UPT 08 MFF 14-45 | BSP 1/4 | 20   | 55 |
|      | UPT 08 MNF 14-45 | NPT 1/4 | 20   | 66 |
| 12   | UPT 12 MFF 12-45 | BSP 1/2 | 27.5 | 66 |
|      | UPT 12 MNF 12-45 | NPT 1/2 | 27.5 | 66 |

Female thread plug 90°



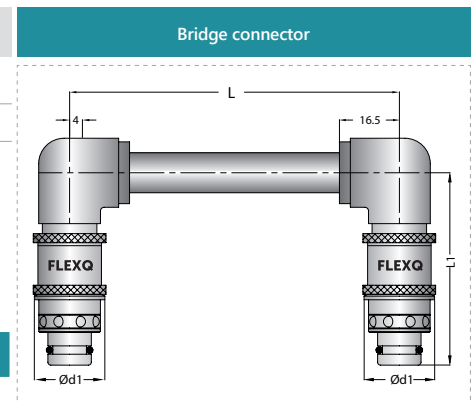
| Size |                  | Ød      | Ød1  | L  |
|------|------------------|---------|------|----|
| 8    | UPT 08 MFF 14-90 | BSP 1/4 | 20   | 55 |
|      | UPT 08 MNF 14-90 | NPT 1/4 | 20   | 55 |
| 12   | UPT 12 MFF 38-90 | BSP 3/8 | 27.5 | 66 |
|      | UPT 12 MFF 12-90 | BSP 1/2 | 27.5 | 66 |
|      | UPT 12 MNF 12-90 | NPT 1/2 | 27.5 | 66 |

| Size |                | Ød     | Ød1 | L   | L1 |
|------|----------------|--------|-----|-----|----|
| 8    | UPT 08 MCF 125 | 11x1.5 | 20  | 125 | 54 |
|      | UPT 08 MCF 250 | 11x1.5 | 20  | 250 | 54 |
|      | UPT 08 MCF 500 | 11x1.5 | 20  | 500 | 54 |

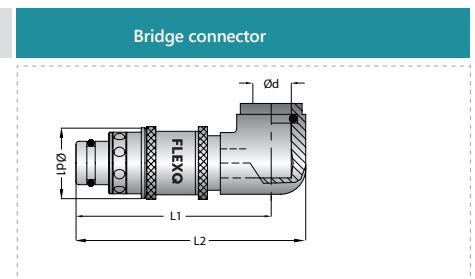
Includes 2 sockets and pipe



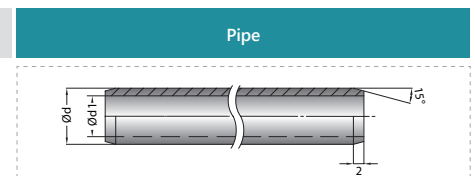
Minimum distance between plugs = 36 mm



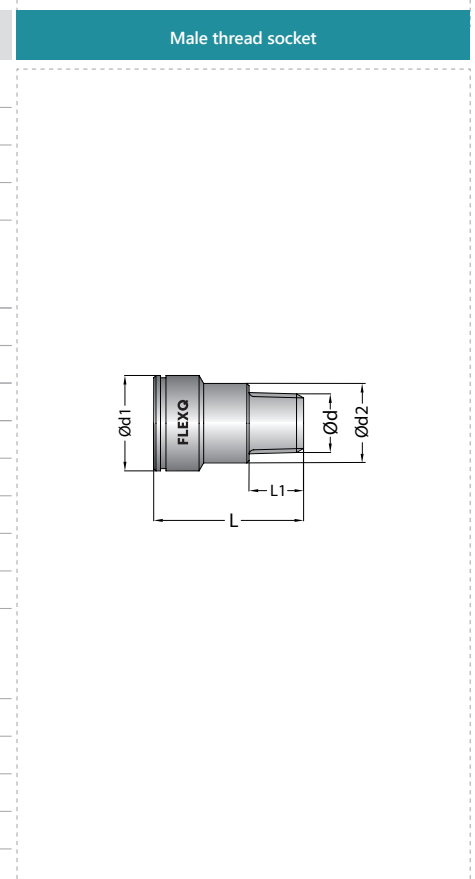
| Size |            | Ød     | Ød1 | L1 | L2 |
|------|------------|--------|-----|----|----|
| 8    | UPT 08 MCF | 11x1.5 | 20  | 54 | 64 |

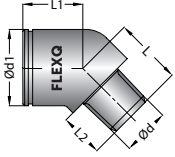


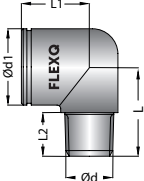
| Size | Brass Tube    | Ød | Ød1 | Length  |
|------|---------------|----|-----|---------|
| 8    | CBM 1115x1000 | 11 | 8   | 1000 mm |

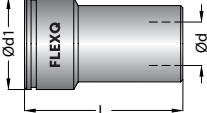


| Size |                 | Ød       | Ød1 | Ød2  | L    | L1 | HEX   |
|------|-----------------|----------|-----|------|------|----|-------|
| 6    | UPT 06 FRF 18   | BSPT 1/8 | 17  | 14   | 28.5 | 8  | 6     |
|      | UPT 06 FRF 14   | BSPT 1/4 | 17  | 14   | 28.5 | 12 | 6     |
|      | UPT 06 FTF 18   | NPT 1/8  | 17  | 14   | 28.5 | 8  | 6     |
|      | UPT 06 FTF 14   | NPT 1/4  | 17  | 14   | 28.5 | 12 | 6     |
|      | UPT 06 FMF 1010 | M10x1.0  | 17  | 14   | 28.5 | 8  | 6     |
| 8    | UPT 08 FRF 18   | BSPT 1/8 | 21  | 17.5 | 32   | 8  | 6     |
|      | UPT 08 FRF 14   | BSPT 1/4 | 21  | 17.5 | 33   | 12 | 8     |
|      | UPT 08 FRF 38   | BSPT 3/8 | 21  | -    | 24   | 12 | 8     |
|      | UPT 08 FRF 12   | BSPT 1/2 | 21  | -    | 28   | 16 | 8     |
|      | UPT 08 FTF 18   | NPT 1/8  | 21  | 17.5 | 31   | 8  | 1/4"  |
|      | UPT 08 FTF 14   | NPT 1/4  | 21  | 17.5 | 33   | 11 | 1/4"  |
|      | UPT 08 FTF 38   | NPT 3/8  | 21  | -    | 24   | 11 | 3/16" |
|      | UPT 08 FMF 1010 | M10x1.0  | 21  | 17.5 | 31   | 10 | 6     |
|      | UPT 08 FMF 1015 | M10x1.5  | 21  | 17.5 | 31   | 10 | 6     |
|      | UPT 08 FMF 1415 | M14x1.5  | 21  | 17.5 | 31   | 10 | 8     |
| 12   | UPT 12 FRF 38   | BSPT 3/8 | 32  | 25   | 41   | 11 | 10    |
|      | UPT 12 FRF 12   | BSPT 1/2 | 32  | 25   | 44   | 14 | 14    |
|      | UPT 12 FRF 34   | BSPT 3/4 | 32  | -    | 32   | 19 | 14    |
|      | UPT 12 FTF 38   | NPT 3/8  | 32  | 25   | 41   | 11 | 3/8"  |
|      | UPT 12 FTF 12   | NPT 1/2  | 32  | 25   | 44   | 14 | 9/16" |
|      | UPT 12 FTF 34   | NPT 3/4  | 32  | -    | 32   | 14 | 9/16" |



| Male thread socket 45°                                                            | Size |                  | Ød       | Ød1 | L    | L1   | L2 | HEX |
|-----------------------------------------------------------------------------------|------|------------------|----------|-----|------|------|----|-----|
|  | 8    | UPT 08 FRF 18-45 | BSPT 1/8 | 21  | 16.5 | 18.5 | 10 | 19  |
|                                                                                   |      | UPT 08 FRF 14-45 | BSPT 1/4 | 21  | 16.5 | 18.5 | 12 | 19  |
|                                                                                   |      | UPT 08 FRF 38-45 | BSPT 3/8 | 21  | 16.5 | 18.5 | 12 | 19  |

| Male thread socket 90°                                                            | Size |                  | Ød       | Ød1 | L  | L1 | L2 | HEX |
|-----------------------------------------------------------------------------------|------|------------------|----------|-----|----|----|----|-----|
|  | 8    | UPT 08 FRF 18-90 | BSPT 1/8 | 21  | 23 | 22 | 10 | 19  |
|                                                                                   |      | UPT 08 FRF 14-90 | BSPT 1/4 | 21  | 25 | 22 | 12 | 19  |
|                                                                                   |      | UPT 08 FRF 38-90 | BSPT 3/8 | 21  | 26 | 22 | 13 | 19  |
|                                                                                   |      | UPT 08 FTF 18-90 | NPT 1/8  | 21  | 23 | 22 | 10 | 19  |
|                                                                                   |      | UPT 08 FTF 14-90 | NPT 1/4  | 21  | 25 | 22 | 12 | 19  |
|                                                                                   |      | UPT 08 FTF 38-90 | NPT 3/8  | 21  | 26 | 22 | 13 | 19  |

| Female thread sockets                                                               | Size |               | Ød      | Ød1 | L  | HEX   |
|-------------------------------------------------------------------------------------|------|---------------|---------|-----|----|-------|
|  | 6    | UPT 06 FFF 18 | BSP 1/8 | 17  | 32 | 6     |
|                                                                                     |      | UPT 06 FNF 18 | NPT 1/8 | 17  | 33 | 1/4"  |
|                                                                                     | 8    | UPT 08 FFF 18 | BSP 1/8 | 21  | 35 | 6     |
|                                                                                     |      | UPT 08 FFF 14 | BSP 1/4 | 21  | 39 | 8     |
|                                                                                     |      | UPT 08 FNF 18 | NPT 1/8 | 21  | 35 | 1/4"  |
|                                                                                     |      | UPT 08 FNF 14 | NPT 1/4 | 21  | 39 | 5/16" |
|                                                                                     | 12   | UPT 12 FFF 38 | BSP 3/8 | 32  | 49 | 12    |
|                                                                                     |      | UPT 12 FFF 12 | BSP 1/2 | 32  | 50 | 12    |
|                                                                                     |      | UPT 12 FNF 12 | NPT 1/2 | 32  | 52 | 1/2"  |

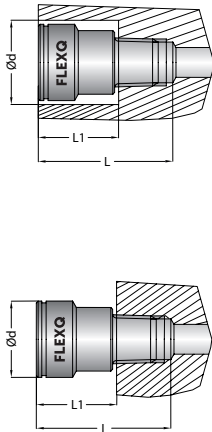
| Male threaded socket with valve                                                     | Size |               | Ød       | Ød1 | L  | L1 |
|-------------------------------------------------------------------------------------|------|---------------|----------|-----|----|----|
|  | 8    | UPT 08 FRB 14 | BSPT 1/4 | 21  | 35 | 12 |
|                                                                                     |      | UPT 08 FRB 38 | BSPT 3/8 | 21  | 28 | 13 |
|                                                                                     |      | UPT 08 FTB 38 | NPT 3/8  | 21  | 26 | 13 |

| Colour ring                                                                         | Size | Red          | Blue         | Description        |
|-------------------------------------------------------------------------------------|------|--------------|--------------|--------------------|
|  | 6    | UPT 06 FCR R | UPT 06 FCR B | Socket Colour ring |
|                                                                                     | 8    | UPT 08 FCR R | UPT 08 FCR B |                    |
|                                                                                     | 12   | UPT 12 FCR R | UPT 12 FCR B |                    |
|                                                                                     | 6    | UPT 06 MCR R | UPT 06 MCR B | Plug Colour ring   |
|                                                                                     | 8    | UPT 08 MCR R | UPT 08 MCR B |                    |
|                                                                                     | 12   | UPT 12 MCR R | UPT 12 MCR B |                    |

| Size |                   | Ød  | Ød1 | Ød2  | Ød3 | Min. L Max. | L1 | HEX | Socket extension without thread |
|------|-------------------|-----|-----|------|-----|-------------|----|-----|---------------------------------|
| 6    | UPT 06 FEF 18-100 | 1/8 | 17  | 18.5 | 11  | 33-100      | 20 | 6   |                                 |
| 8    | UPT 08 FEF 18-100 | 1/8 | 21  | 22.5 | 11  | 33-100      | 23 | 6   |                                 |
|      | UPT 08 FEF 18-150 | 1/8 | 21  | 22.5 | 11  | 100-150     | 23 | 6   |                                 |
|      | UPT 08 FEF 18-200 | 1/8 | 21  | 22.5 | 11  | 150-200     | 23 | 6   |                                 |
|      | UPT 08 FEF 18-250 | 1/8 | 21  | 22.5 | 11  | 200-250     | 23 | 6   |                                 |
|      | UPT 08 FEF 14-100 | 1/4 | 21  | 22.5 | 14  | 34-100      | 23 | 6   |                                 |
|      | UPT 08 FEF 14-150 | 1/4 | 21  | 22.5 | 14  | 100-150     | 23 | 6   |                                 |
|      | UPT 08 FEF 14-200 | 1/4 | 21  | 22.5 | 14  | 150-200     | 23 | 6   |                                 |
|      | UPT 08 FEF 14-250 | 1/4 | 21  | 22.5 | 14  | 200-250     | 23 | 6   |                                 |
| 12   | UPT 12 FEF 38-150 | 3/8 | 32  | 33.5 | 18  | 59-150      | 43 | 14  |                                 |
|      | UPT 12 FEF 38-200 | 3/8 | 32  | 33.5 | 18  | 150-200     | 43 | 14  |                                 |
|      | UPT 12 FEF 38-250 | 3/8 | 32  | 33.5 | 18  | 200-250     | 43 | 14  |                                 |
|      | UPT 12 FEF 12-150 | 1/2 | 32  | 33.5 | 22  | 59-150      | 43 | 14  |                                 |
|      | UPT 12 FEF 12-200 | 1/2 | 32  | 33.5 | 22  | 150-200     | 43 | 14  |                                 |
|      | UPT 12 FEF 12-250 | 1/2 | 32  | 33.5 | 22  | 200-250     | 43 | 14  |                                 |

| Size |                   | Ød      | Ød1 | Ød2  | Ød3 | Min. L Max. | L1 | L2 | HEX | Socket extension with male thread |
|------|-------------------|---------|-----|------|-----|-------------|----|----|-----|-----------------------------------|
| 8    | UPT 08 FMF 18-50  | BSP 1/8 | 21  | 22.5 | 11  | 35-50       | 26 | 21 | 6   |                                   |
|      | UPT 08 FMF 18-100 | BSP 1/8 | 21  | 22.5 | 11  | 50-100      | 60 | 21 | 6   |                                   |
|      | UPT 08 FMF 18-150 | BSP 1/8 | 21  | 22.5 | 11  | 100-150     | 60 | 21 | 6   |                                   |
| 8    | UPT 08 FMF 14-50  | BSP 1/4 | 21  | 22.5 | 14  | 39-50       | 27 | 21 | 8   |                                   |
|      | UPT 08 FMF 14-100 | BSP 1/4 | 21  | 22.5 | 14  | 55-100      | 60 | 21 | 8   |                                   |
|      | UPT 08 FMF 14-150 | BSP 1/4 | 21  | 22.5 | 14  | 105-150     | 60 | 21 | 8   |                                   |
|      | UPT 08 FMF 14-200 | BSP 1/4 | 21  | 22.5 | 14  | 155-200     | 60 | 21 | 8   |                                   |

| Size |                   | Ød       | Ød1 | Ød2  | Ød3 | Min. L Max. | L1 | L2 | HEX | Socket extension with male thread |
|------|-------------------|----------|-----|------|-----|-------------|----|----|-----|-----------------------------------|
|      | UPT 08 FRF 18-100 | BSPT 1/8 | 21  | 22.5 | 11  | 50-100      | 9  | 21 | 6   |                                   |
|      | UPT 08 FRF 18-150 | BSPT 1/8 | 21  | 22.5 | 11  | 100-150     | 9  | 21 | 6   |                                   |
|      | UPT 08 FRF 18-200 | BSPT 1/8 | 21  | 22.5 | 11  | 150-200     | 9  | 21 | 6   |                                   |
|      | UPT 08 FRF 18-250 | BSPT 1/8 | 21  | 22.5 | 11  | 200-250     | 9  | 21 | 6   |                                   |
| 8    | UPT 08 FRF 14-100 | BSPT 1/4 | 21  | 22.5 | 14  | 50-100      | 12 | 21 | 8   |                                   |
|      | UPT 08 FRF 14-150 | BSPT 1/4 | 21  | 22.5 | 14  | 100-150     | 12 | 21 | 8   |                                   |
|      | UPT 08 FRF 14-200 | BSPT 1/4 | 21  | 22.5 | 14  | 150-200     | 12 | 21 | 8   |                                   |
|      | UPT 08 FRF 14-250 | BSPT 1/4 | 21  | 22.5 | 14  | 200-250     | 12 | 21 | 8   |                                   |

| Assembling dimensions for the socket                                              |    | Size    |  | Ød   | L    | L1   | Nm | HEX   |
|-----------------------------------------------------------------------------------|----|---------|--|------|------|------|----|-------|
|  | 6  | BSP 1/8 |  | 18.5 | 29.5 | 20   | 15 | 6     |
|                                                                                   |    | BSP 1/4 |  | 18.5 | 30.5 | 19   | 30 | 6     |
|                                                                                   |    | NPT 1/8 |  | 18.5 | 31.5 | 20   | 15 | 1/4"  |
|                                                                                   |    | NPT 1/4 |  | 18.5 | 33   | 19   | 30 | 1/4"  |
|                                                                                   | 8  | BSP 1/8 |  | 22.5 | 33   | 23   | 15 | 6     |
|                                                                                   |    | BSP 1/4 |  | 22.5 | 35   | 22   | 30 | 8     |
|                                                                                   |    | BSP 3/8 |  | 22.5 | 25   | 12   | 30 | 8     |
|                                                                                   |    | NPT 1/8 |  | 22.5 | 33   | 25.5 | 15 | 1/4"  |
|                                                                                   |    | NPT 1/4 |  | 22.5 | 35   | 24   | 30 | 5/16" |
|                                                                                   |    | NPT 3/8 |  | 22.5 | 25   | 14   | 30 | 5/16" |
|                                                                                   | 12 | BSP 3/8 |  | 33.5 | 43   | 29   | 50 | 10    |
|                                                                                   |    | BSP 1/2 |  | 33.5 | 46   | 30   | 50 | 14    |
|                                                                                   |    | BSP 3/4 |  | 33.5 | 34   | 15   | 50 | 14    |
|                                                                                   |    | NPT 3/8 |  | 33.5 | 43   | 33   | 50 | 3/8"  |
|                                                                                   |    | NPT 1/2 |  | 33.5 | 46   | 35   | 50 | 9/16" |
|                                                                                   |    | NPT 3/4 |  | 33.5 | 34   | 15   | 50 | 9/16" |

| Replacement seal set                                                                |    |  Size |  | Description     | Material      | Working Temp. |
|-------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------|--|-----------------|---------------|---------------|
|  | 6  | SK UPT 06 MN                                                                             |  | Plug seal set   | NBR - Nitrile | -15°C +100°C  |
|                                                                                     | 8  | SK UPT 08 MN                                                                             |  | Plug seal set   | NBR - Nitrile | -15°C +100°C  |
|                                                                                     | 12 | SK UPT 12 MN                                                                             |  | Plug seal set   | NBR - Nitrile | -15°C +100°C  |
|                                                                                     | 8  | SK UPT 08 FN                                                                             |  | Socket seal set | NBR - Nitrile | -15°C +100°C  |
|                                                                                     | 6  | SK UPT 06 MV                                                                             |  | Plug seal set   | FPM - Viton   | -20°C +200°C  |
|                                                                                     | 8  | SK UPT 08 MV                                                                             |  | Plug seal set   | FPM - Viton   | -20°C +200°C  |
|                                                                                     | 12 | SK UPT 12 MV                                                                             |  | Plug seal set   | FPM - Viton   | -20°C +200°C  |
|                                                                                     | 8  | SK UPT 08 FV                                                                             |  | Socket seal set | FPM - Viton   | -20°C +200°C  |

# FLEXQ

■ MONOCOUPPLINGS FOR FLUIDS / SERIES UPT



**FLEXQ**  
CONNECTORS

**WHT**  
High Temperature



**LINKING PRECISION WITH PERFORMANCE**

2 flow sizes

## WHT, the proven coupling system for high temperature application

### Characteristics

- High temperature coupling
- Non-spilling
- Optimized flow characteristics
- Ergonomic design
- Locking through pawl lock
- Handle PTFE
- Low maintenance

### Use at high temperature

- Double shut-off coupling system – especially suited for heat oil applications up to 325 °C.

### Safe and quick locking

The pawl locking mechanism provides a secure connection. The Teflon grips are thermally insulated, ensuring safe and user-friendly operation under high-temperature conditions.

WHT  
HIGH TEMPERATURE



VALVES

### SERIE WHT

HIGH TEMPERATURE APPLICATION

#### Options

- Stainless Steel

VA

#### APPLICATIONS

- Cooling heating
- Injection moulding
- Foundry industry
- Heat-transfer oil application

|             | Materials           |
|-------------|---------------------|
| Body Socket | Steel oil burnished |
| Body Plug   | Steel oil burnished |
| Valve       | Steel oil burnished |
| Spring      | Stainless steel     |
| Balls       | Stainless steel     |
| Seals       | Kalrez (FFKM)       |

|        |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| VALVES |  |  |  |  |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

|      |                   |
|------|-------------------|
| max. | Temperature range |
|------|-------------------|

|               |   |                 |
|---------------|---|-----------------|
| Kalrez (FFKM) | W | - 15 °C +325 °C |
|---------------|---|-----------------|

Please note the operating instructions for high temperature applications. Ensure a safe working environment.

#### WHT 12 WHT 19



Flow Size

12

19



Pressure

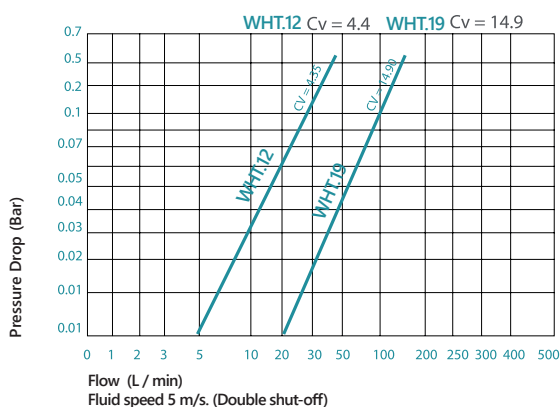
20

20



FLEXQ

#### Series WHT - Flow Rate vs Pressure Drop Graph



| Size |                    | Ød      | L   | L1  | L2 | HEX | Female thread socket |
|------|--------------------|---------|-----|-----|----|-----|----------------------|
| 12   | WHT 12 FFB 34/W    | BSP 3/4 | 100 |     | 65 | 36  |                      |
|      | WHT 12 FFB 34/W/HA | BSP 3/4 | 100 | 110 |    | 36  |                      |
| 19   | WHT 19 FFB 34/W    | BSP 3/4 | 110 |     | 80 | 41  |                      |
|      | WHT 19 FFB 34/W/HA | BSP 3/4 | 110 | 110 |    | 41  |                      |
|      | WHT 19 FFB 10/W    | BSP 1"  | 110 |     | 80 | 41  |                      |
|      | WHT 19 FFB 10/W/HA | BSP 1"  | 110 | 110 |    | 41  |                      |

| Size |                 | Ød      | L  | HEX | Female thread plug |
|------|-----------------|---------|----|-----|--------------------|
| 12   | WHT 12 MFB 34/W | BSP 3/4 | 93 | 34  |                    |
| 19   | WHT 19 MFB 34/W | BSP 3/4 | 95 | 41  |                    |
|      | WHT 19 MFB 10/W | BSP 1"  | 95 | 41  |                    |

| Size | L   | After Coupled Distance |
|------|-----|------------------------|
| 12   | 157 |                        |
| 19   | 163 |                        |



## Multicouplings for fluids, hydraulics and pneumatics



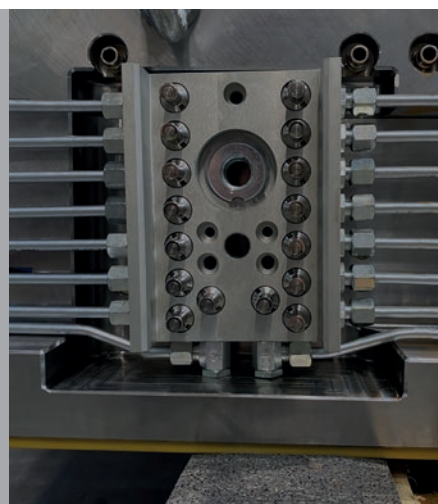
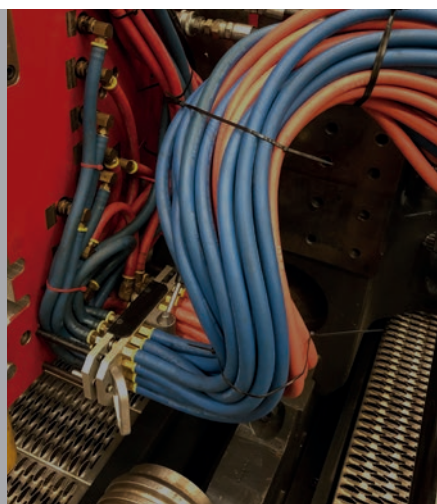
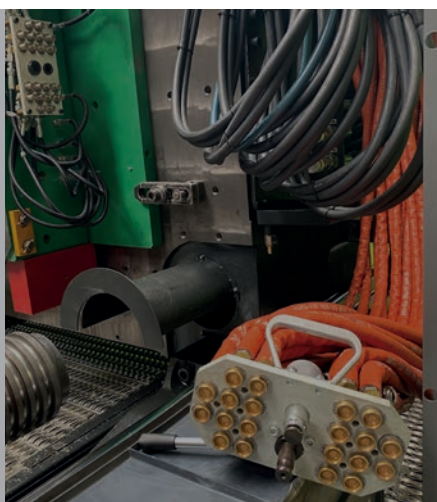
Multicouplings



LINKING PRECISION WITH PERFORMANCE

# Examples

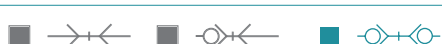
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## SERIE RPC

# FLEXQ

CONNECTORS



### RPC



Flow Size

RPC 08 - 08 mm  
RPC 10 - 10 mm



Number of Connections

RPC 08 - 6  
RPC 10 - 6



Pressure

200 bar



Temperature range

-5°C +200°C FPM (V)

## SPECIFICATIONS

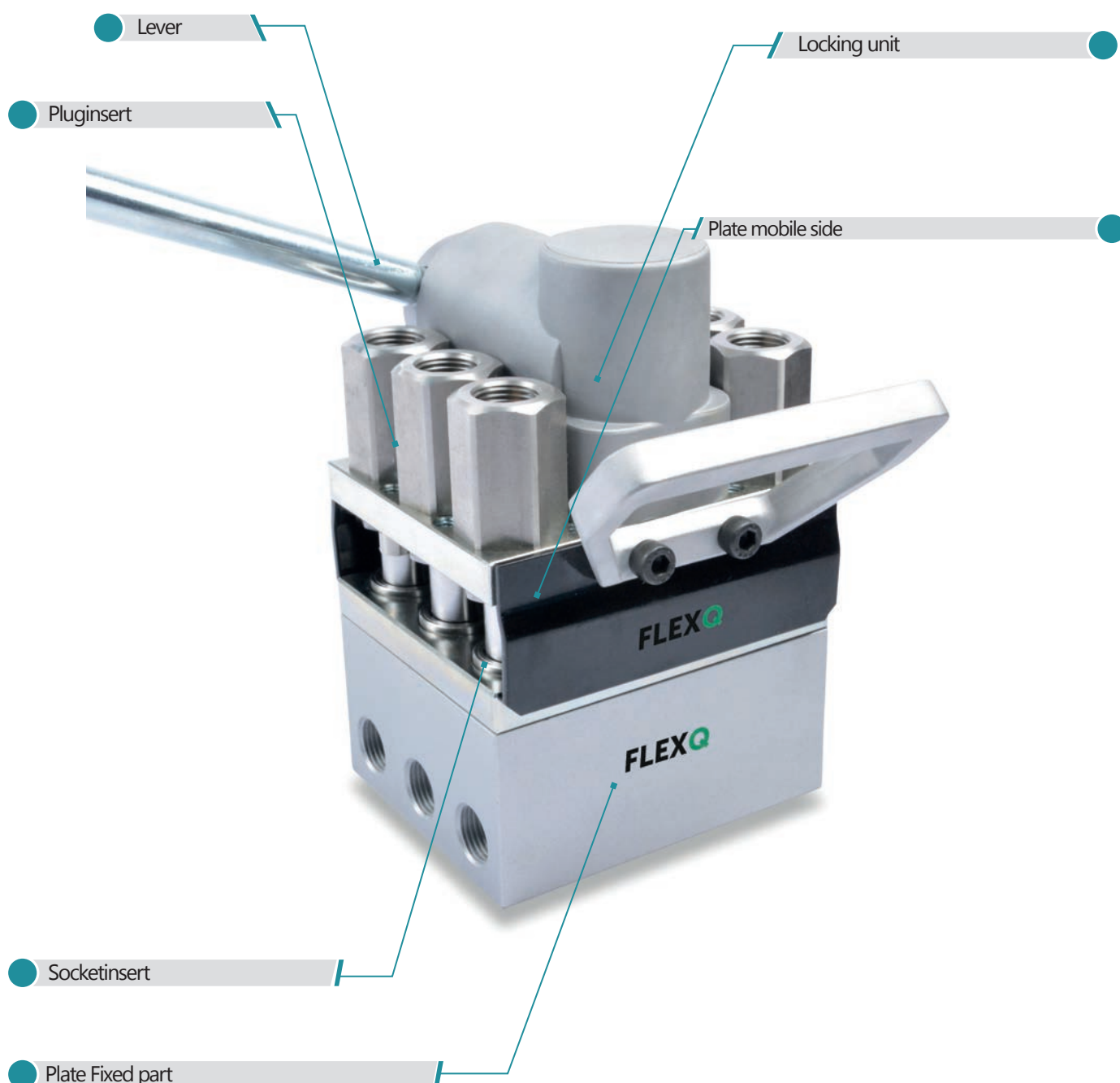
Tool set-up optimization through central locking  
Avoidance of mistakes through fixed hoses on the plates  
Many connection options

## OPTIONS

Colour coding on the plates  
Screw option

## APPLICATIONS

Injection moulding  
Die casting  
Test benches



## Multicoupling Series RPC

Mobile part Item Codes



8mm



MP RPC 08 - C - X

**MP** Mobile part

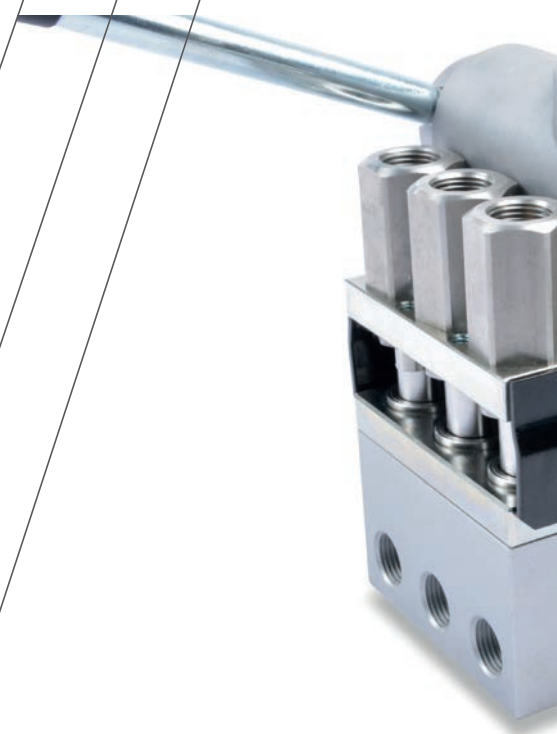
**RPC** RPC profile

**08** Flow size

**C** Connections

**6** 3 Circuits

**X** Pluginsert



### Plug with valve

**MFB 38** Female thread BSP 3/8"

**MFB 12** Female thread BSP 1/2"

**MNB 38** Female thread NPT 3/8"

**MNB 12** Female thread NPT 1/2"

## Multicoupling Series RPC

### Fixed part Item Codes

**FP RPC 08 C X**

- Socketinsert **X**
- Connections **C**
- 6 3 Circuits
- Flow size **08**
- RPC profile **RPC**
- Fixed part **FP**

#### Socketinsert with valve - thread on the aluminium block

**FFB 38** Female thread BSP 3/8"

**FFB 12** Female thread BSP 1/2"

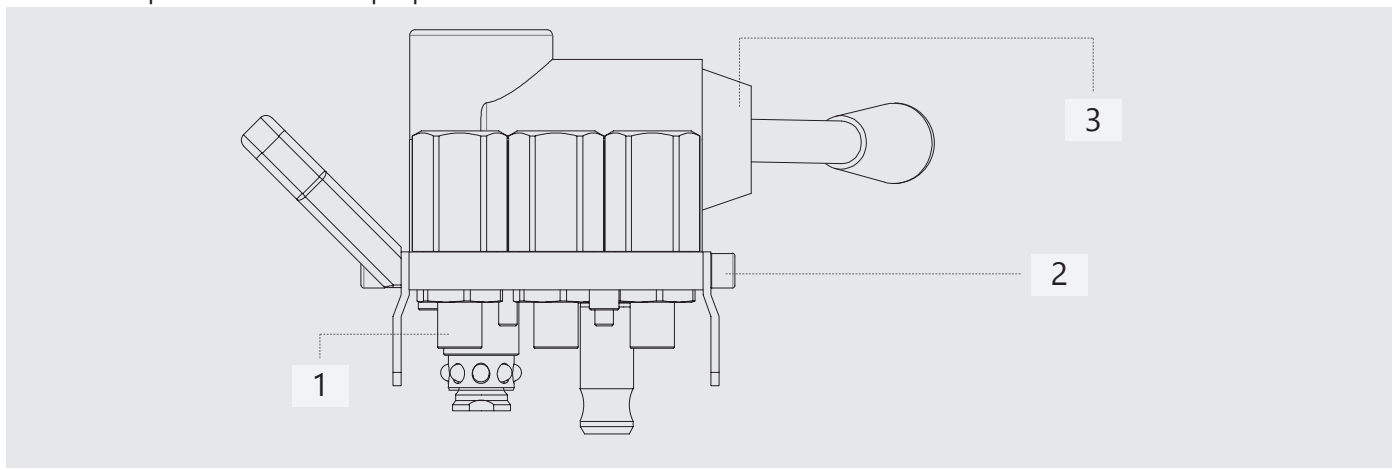
**FNB 38** Female thread NPT 3/8"

**FNB 12** Female thread NPT 1/2"

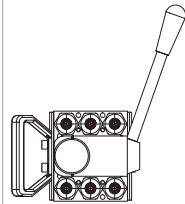
### Multicoupling Series RPC

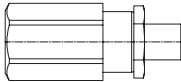
Mobile part Item Equipment

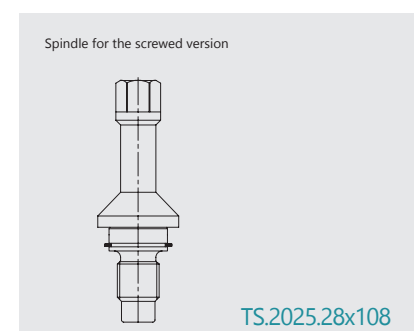
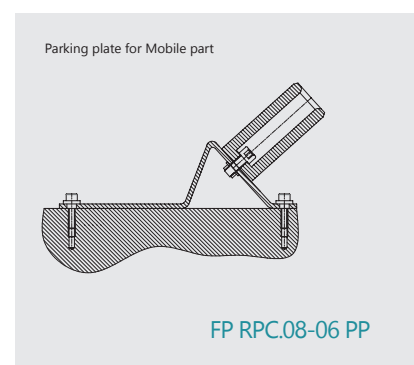
 **8mm**



| Assemblies |  | Description            |
|------------|------------------------------------------------------------------------------------|------------------------|
|            | MP RPC.08-06 MFB 38                                                                | Female thread BSP 3/8" |
|            | MP RPC.08-06 MFB 12                                                                | Female thread BSP 1/2" |
|            | MP RPC.08-06 MNB 38                                                                | Female thread NPT 3/8" |
|            | MP RPC.08-06 MNB 12                                                                | Female thread NPT 1/2" |

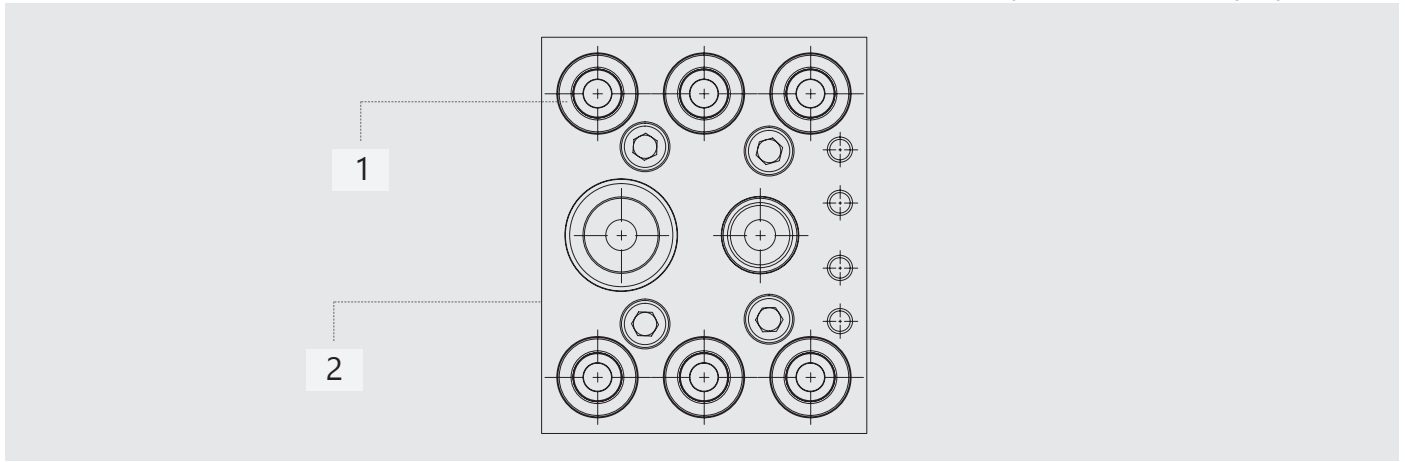
| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 6           |  |

| Spare parts | N |  | Description                                                                          |
|-------------|---|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|             | 1 | M RPC.08 MFB 38                                                                     | Plug with female thread BSP 3/8"                                                     |
|             |   | M RPC.08 MFB 12                                                                     | Plug with female thread BSP 1/2"                                                     |
|             |   | M RPC.08 MNB 38                                                                     | Plug with female thread NPT 3/8"                                                     |
|             |   | M RPC.08 MNB 12                                                                     | Plug with female thread NPT 1/2"                                                     |
|             |   |                                                                                     |  |
|             |   |                                                                                     | Description                                                                          |
|             | 2 | MP RPC.08-06                                                                        | Mobile part only with locking unit for 6 connections                                 |
|             | 3 | L-UNIT BG7                                                                          | Locking unit size                                                                    |



### Multicoupling Series RPC

Fixed part Item Equipment

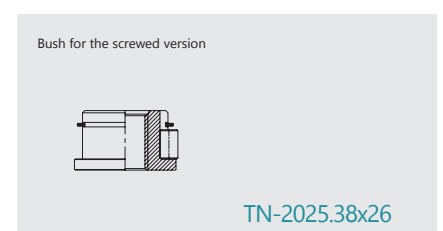


| Assemblies |                     | Description            |
|------------|---------------------|------------------------|
|            | FP RPC.08-06 FFB 38 | Female thread BSP 3/8" |
|            | FP RPC.08-06 FFB 12 | Female thread BSP 1/2" |
|            | FP RPC.08-06 FNB 38 | Female thread NPT 3/8" |
|            | FP RPC.08-06 FNB 12 | Female thread NPT 1/2" |

| Connections | Scheme |
|-------------|--------|
| 6           |        |

| Spare parts | N |                  | Description         |
|-------------|---|------------------|---------------------|
|             | 1 | M RPC.08. FAB 00 | Socket for assembly |

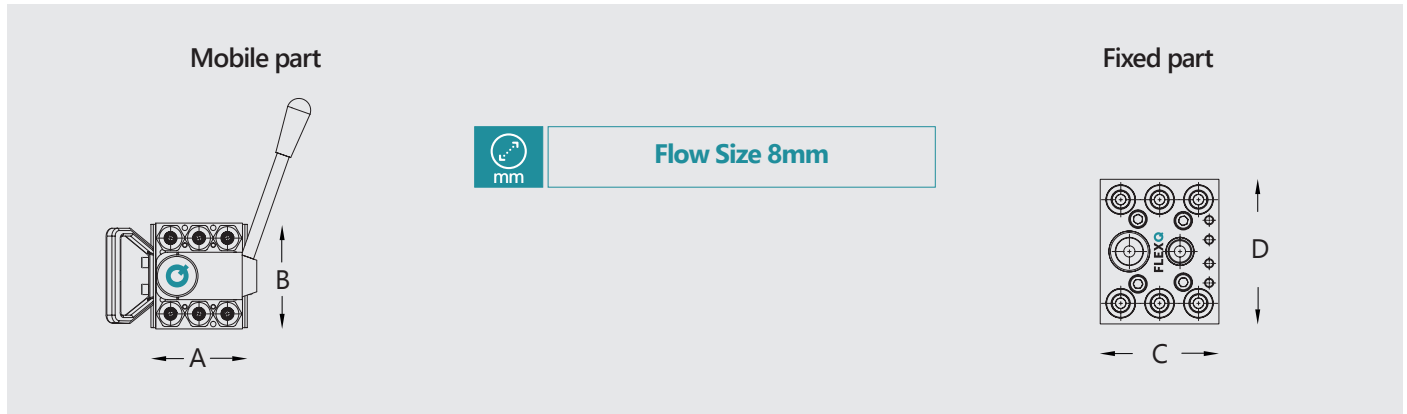
|   | Description                                                                        |
|---|------------------------------------------------------------------------------------|
| 2 | FP RPC.08-06 F38<br>Fixed part for 6 connections without sockets (female BSP 3/8") |
|   | FP RPC.08-06 F12<br>Fixed part for 6 connections without sockets (female BSP 1/2") |
|   | FP RPC.08-06 N38<br>Fixed part for 6 connections without sockets (female NPT 3/8") |
|   | FP RPC.08-06 N12<br>Fixed part for 6 connections without sockets (female NPT 1/2") |

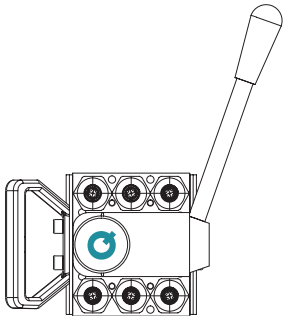


## Multicoupling Series RPC

### Dimensions

 **8mm**



| Mobile part                                                                        | Fixed part                                                                          | A   | B   | C   | D   | n | DN |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|---|----|
|  |  | 110 | 134 | 110 | 134 | 6 | 8  |

# FLEXQ

■ MULTICOUPLINGS FOR HYDRAULICS / SERIES RPC



## Multicoupling Series RPC

Mobile part Item Codes

**HighFlow**



**10mm**



MP RPC 10 - C - X

**MP** Mobile part

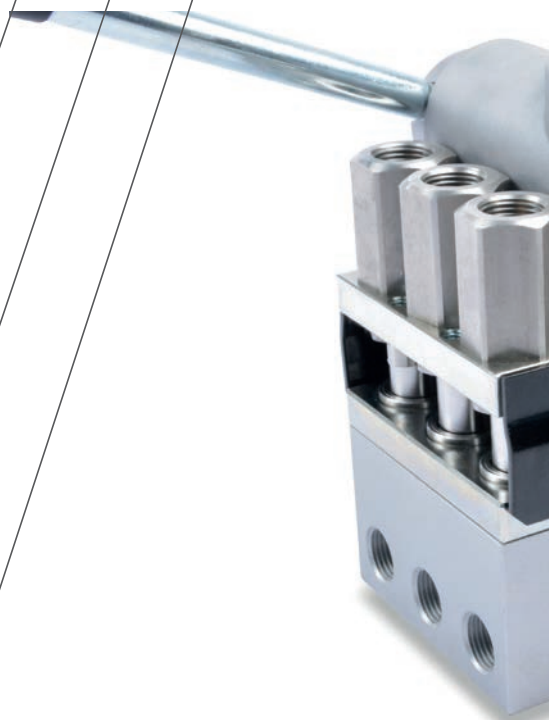
**RPC** RPC profile

**10** Flow size

**C** Connections

**6** 3 Circuits

**X** Pluginsert



### Plug with valve

**MFB 38** Female thread BSP 3/8

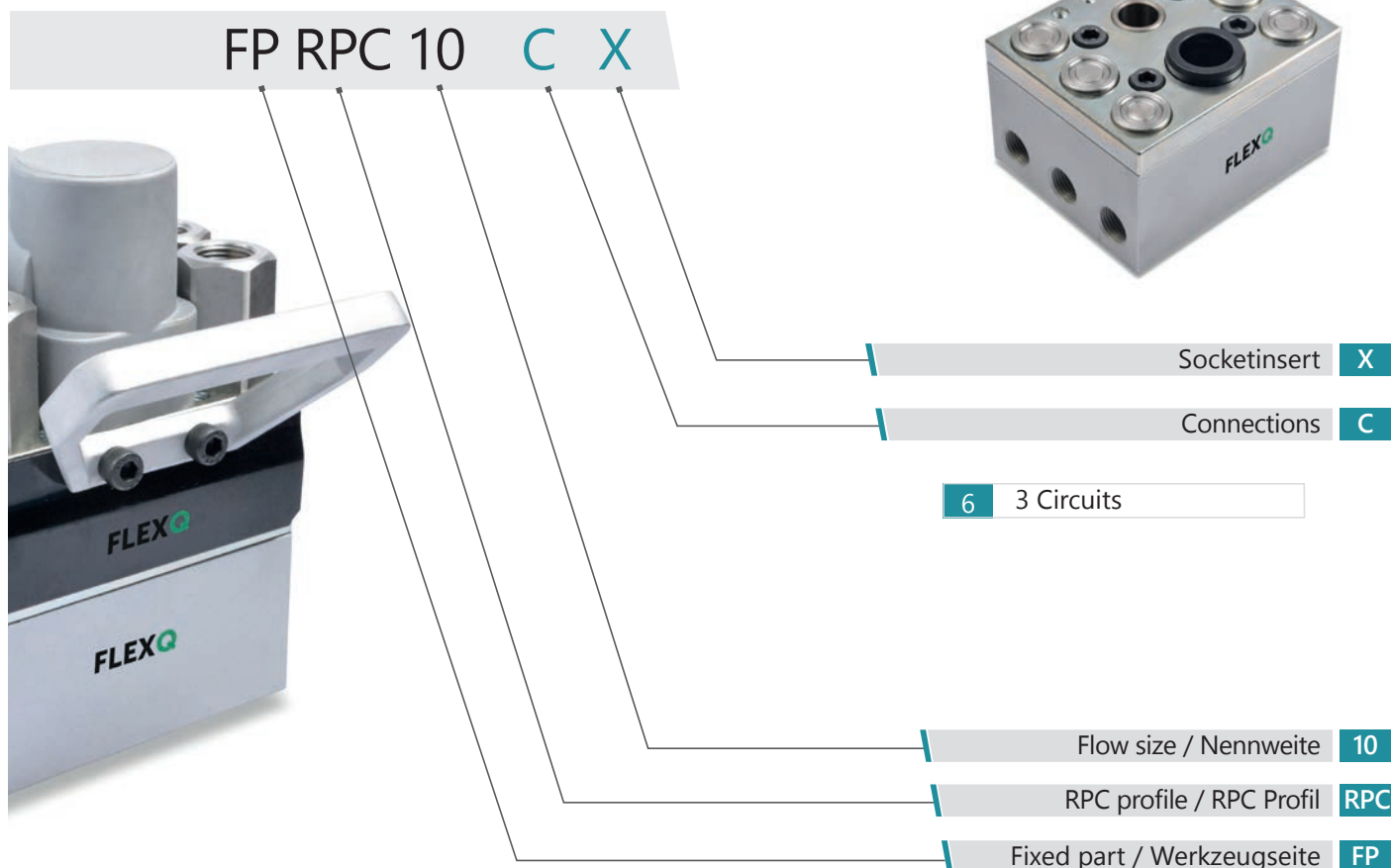
**MFB 12** Female thread BSP 1/2"

**MNB 38** Female thread NPT 3/8"

**MNB 12** Female thread NPT 1/2"

## Multicoupling Series RPC

Fixed part Item Codes



FP RPC 10 C X

Socketinsert X

Connections C

6 3 Circuits

Flow size / Nennweite 10

RPC profile / RPC Profil RPC

Fixed part / Werkzeugseite FP

### Socketinsert with valve - thread on the aluminium block

FFB 38 Female thread BSP 3/8"

FFB 12 Female thread BSP 1/2"

FNB 38 Female thread NPT 3/8"

FNB 12 Female thread NPT 1/2"

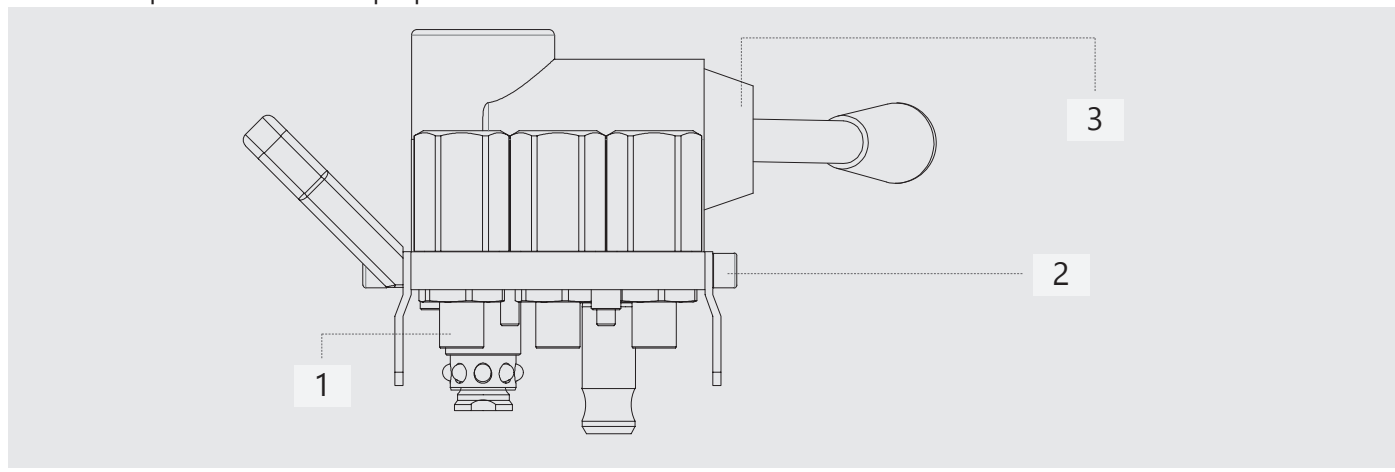
### Multicoupling Series RPC

Mobile part Item Equipment

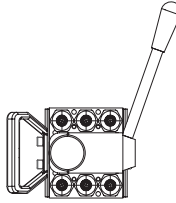
**HighFlow**

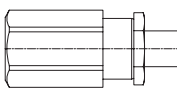


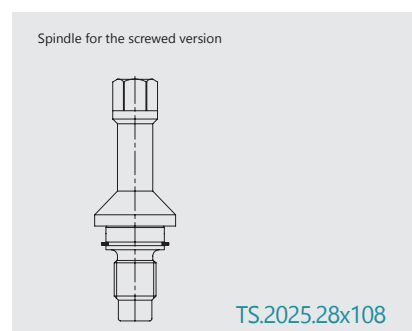
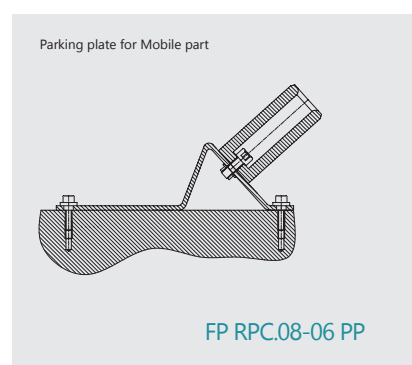
**10mm**



| Assemblies |  | Description            |
|------------|-------------------------------------------------------------------------------------|------------------------|
|            | MP RPC.10-06 MFB 38                                                                 | Female thread BSP 3/8" |
|            | MP RPC.10-06 MFB 12                                                                 | Female thread BSP 1/2" |
|            | MP RPC.10-06 MNB 38                                                                 | Female thread NPT 3/8" |
|            | MP RPC.10-06 MNB 12                                                                 | Female thread NPT 1/2" |

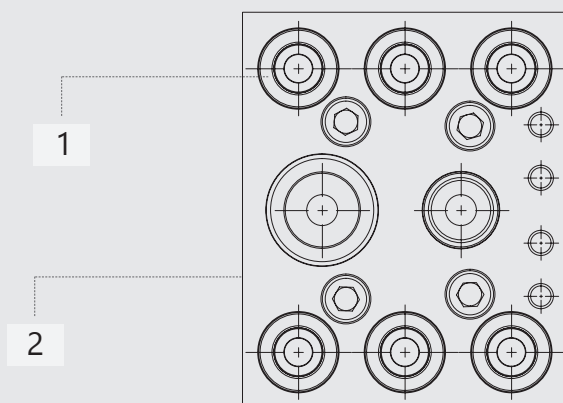
| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 6           |  |

| Spare parts | N           |  | Description                                                                         |
|-------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|             | 1           | M RPC.10 MFB 38                                                                     | Plug with female thread BSP 3/8"                                                    |
|             |             | M RPC.10 MFB 12                                                                     | Plug with female thread BSP 1/2"                                                    |
|             |             | M RPC.10 MNB 38                                                                     | Plug with female thread NPT 3/8"                                                    |
|             |             | M RPC.10 MNB 12                                                                     | Plug with female thread NPT 1/2"                                                    |
|             |             |                                                                                     |  |
|             | Description |                                                                                     |                                                                                     |
|             | 2           | MP RPC.08-06                                                                        | Mobile part only with locking unit for 6 connections                                |
|             | 3           | L-UNIT BG7                                                                          | Locking unit size 7                                                                 |



### Multicoupling Series RPC

Fixed part Item Equipment



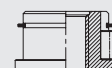
| Assemblies |                     | Description            |
|------------|---------------------|------------------------|
|            | FP RPC.10-06 FFB 38 | Female thread BSP 3/8" |
|            | FP RPC.10-06 FFB 12 | Female thread BSP 1/2" |
|            | FP RPC.10-06 FNB 38 | Female thread NPT 3/8" |
|            | FP RPC.10-06 FNB 12 | Female thread NPT 1/2" |

| Connections | Scheme |
|-------------|--------|
| 6           |        |

| Spare parts | N |                  | Description         |
|-------------|---|------------------|---------------------|
|             | 1 | M RPC.10. FAB 00 | Socket for assembly |

|   | Description / Beschreibung                                                      |
|---|---------------------------------------------------------------------------------|
| 2 | FP RPC.10-06 F38 Fixed part for 6 connections without sockets (female BSP 3/8") |
|   | FP RPC.10-06 F12 Fixed part for 6 connections without sockets (female BSP 1/2") |
|   | FP RPC.10-06 N38 Fixed part for 6 connections without sockets (female NPT 3/8") |
|   | FP RPC.10-06 N12 Fixed part for 6 connections without sockets (female NPT 1/2") |

Bush for the screwed version



TN-2025.38x26



## Multicoupling Series RPC

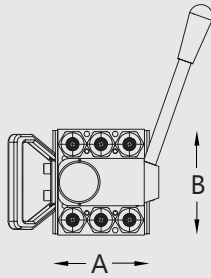
### Dimensions

**HighFlow**



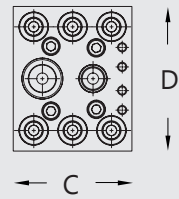
**10mm**

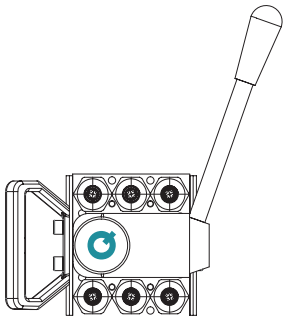
Mobile part



Flow Size 10mm

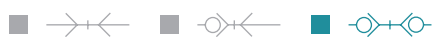
Fixed part



| Mobile part                                                                         | Fixed part                                                                          | A   | B   | C   | D   | n | DN |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|---|----|
|  |  | 110 | 134 | 110 | 134 | 6 | 8  |



## SERIE MPC



**FLEXQ**  
CONNECTORS



### MPC



Flow Size

MPC 03 - 03 mm  
MPC 05 - 05 mm

n

Number of Connections

MPC 03 - 12-16  
MPC 05 - 12-16



Pressure

100 bar



Temperature range

-5°C +160°C FPM (V)

### SPECIFICATIONS

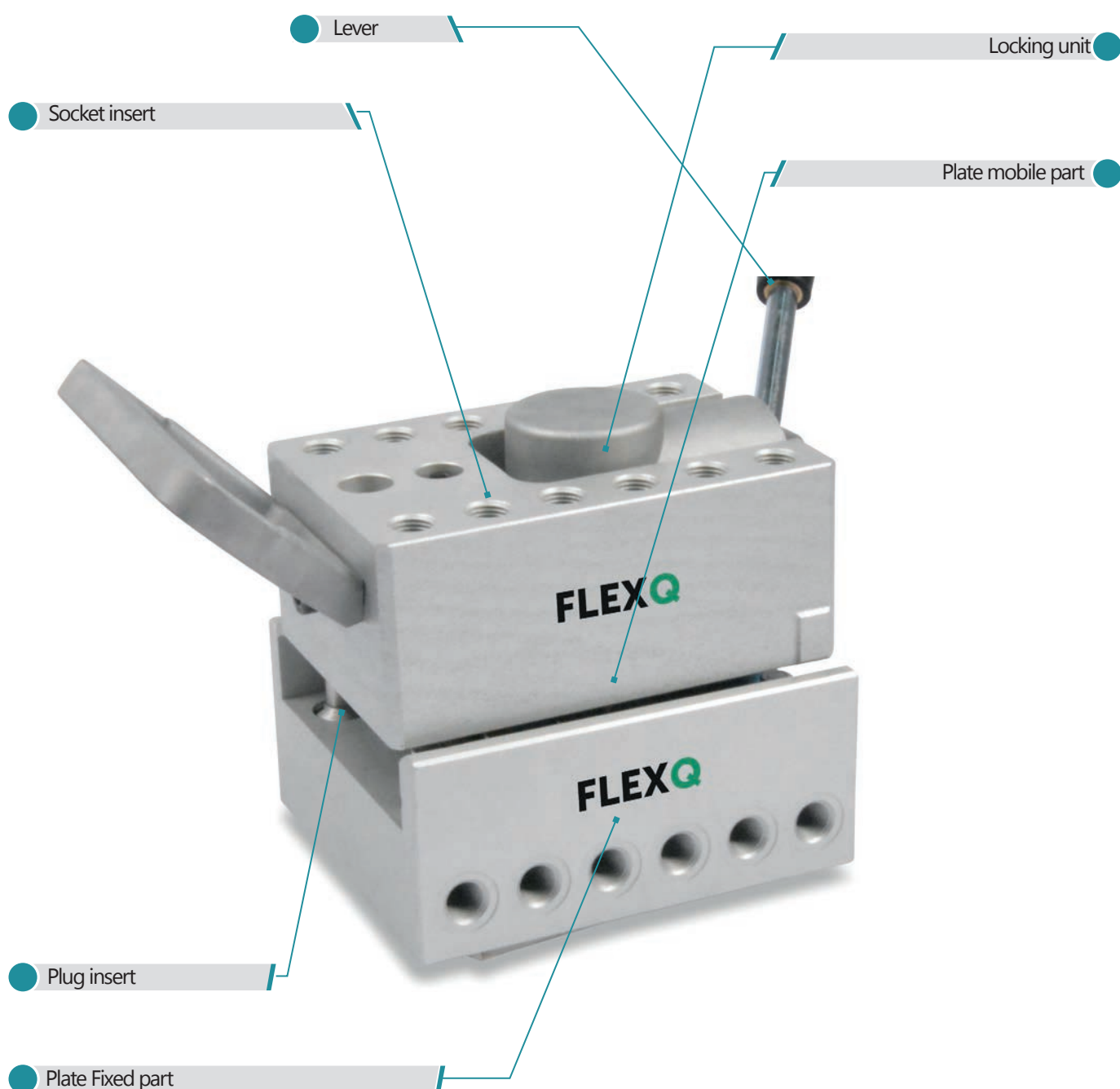
Tool set-up optimization through central locking  
Avoidance of mistakes through fixed hoses on the plates  
Many connection options

### OPTIONS

Colour coding on the plates  
Safety locking unit

### APPLICATIONS

Cascades  
Injection moulding  
Die casting  
Test benches



## Multicoupling Series MPC - Mobile part Item Codes



3mm



MP MPC 03 - C - X

**MP** Mobile part

**MPC** MPC profile

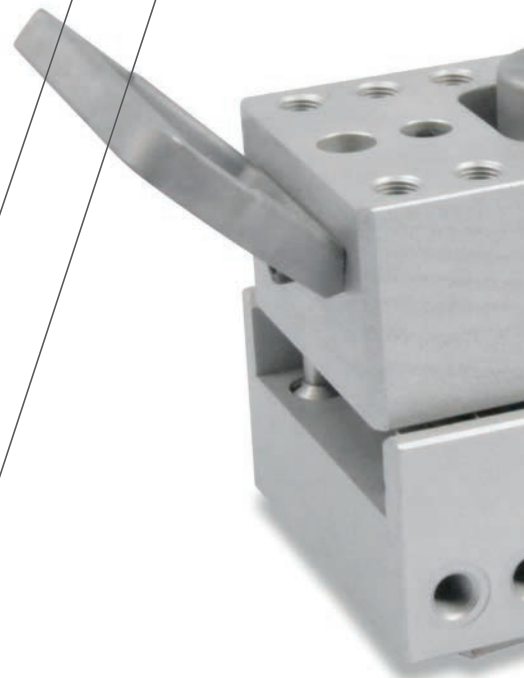
**03** Flow size

**C** Connections

12 6 Circuits

16 8 Circuits

**X** Socket insert



### Socket with valve - thread on the aluminium block

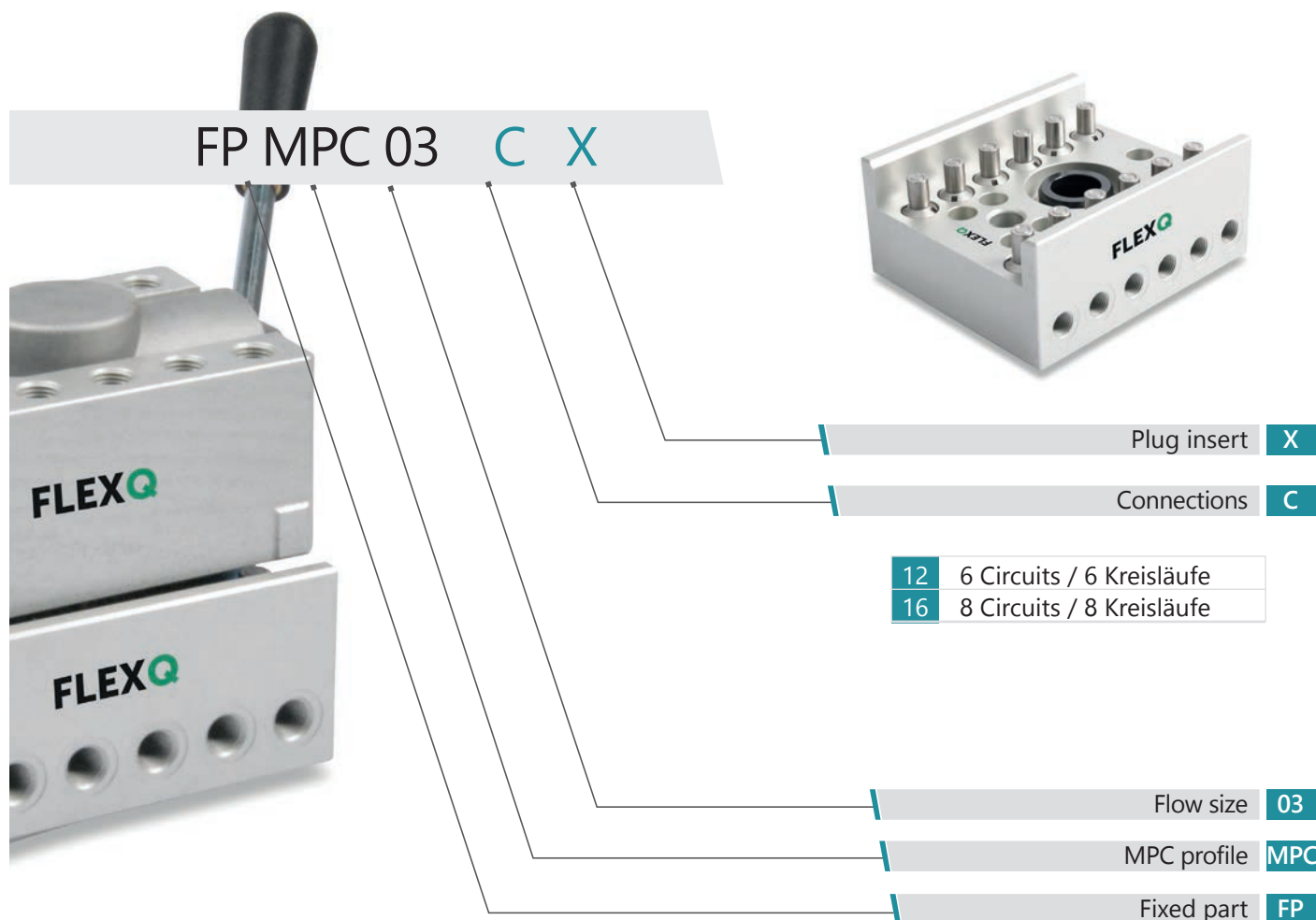
**FFB 18** Female thread BSP 1/8

**FNB 18** Female thread NPT 1/8"

**FQB 18** Female thread BSPT 1/8"

## Multicoupling Series MPC

### Fixed part Item Codes



#### Plug with valve - thread on the aluminium block

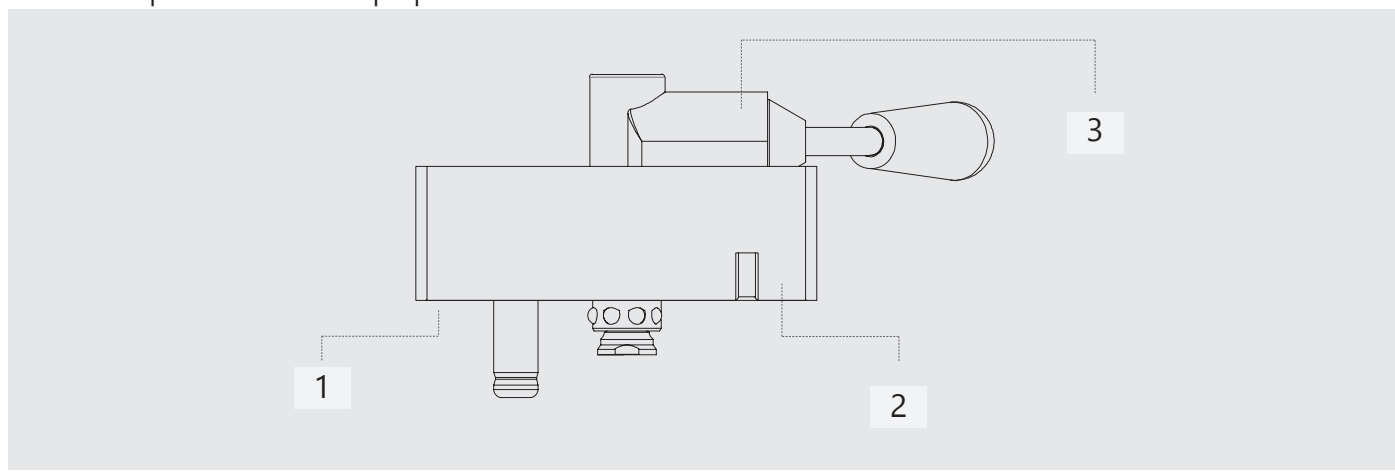
MFB 18 Female thread BSP 1/8"

MNB 18 Female thread NPT 1/8"

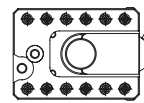
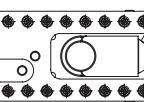
MQB 18 Female thread BSPT 1/8"

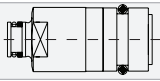
### Multicoupling Series MPC

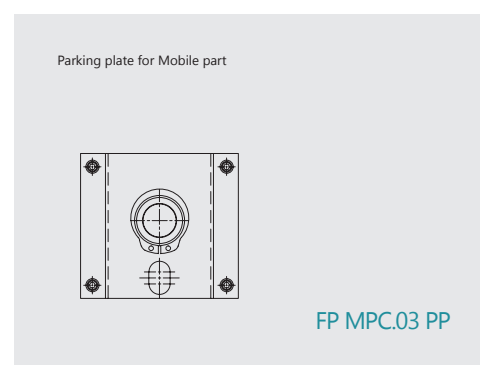
#### Mobile part Item Equipment



| Assemblies |  | Description             |
|------------|------------------------------------------------------------------------------------|-------------------------|
|            | MP MPC.03-X FFB 18                                                                 | Female thread BSP 1/8"  |
|            | MP MPC.03-X FQB 18                                                                 | Female thread BSPT 1/8" |
|            | MP MPC.03-X FNB 18                                                                 | Female thread NPT 1/8"  |

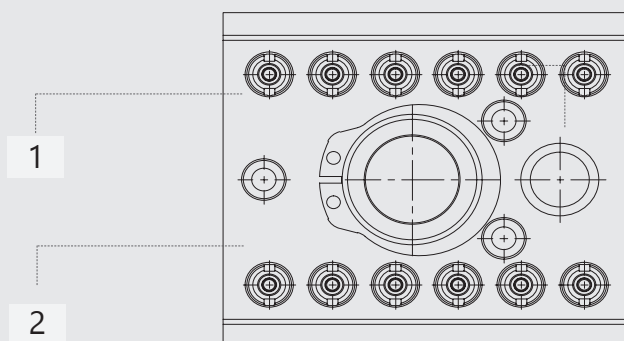
| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 12          |  |
| 16          |  |

| Spare parts | N |  | Description                                                                                             |
|-------------|---|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|             | 1 | M MPC.03 FAB                                                                        | Socket for assembly  |
|             |   |                                                                                     | Description                                                                                             |
|             | 2 | MP MPC.03-12                                                                        | Mobile part only with locking unit for 12 connections                                                   |
|             |   | MP MPC.03-16                                                                        | Mobile part only with locking unit for 16 connections                                                   |
|             | 3 | L-UNIT BG1                                                                          | Locking unit size 1 for 12 connections                                                                  |
|             |   | L-UNIT BG1                                                                          | Locking unit size 1 for 16 connections                                                                  |



### Multicoupling Series MPC

Fixed part Item Equipment



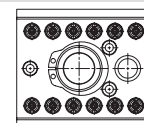
#### Assemblies

|                    |  | Description             |
|--------------------|--|-------------------------|
| FP MPC.03-X MFB 18 |  | Female thread BSP 1/8"  |
| FP MPC.03-X MQB 18 |  | Female thread BSPT 1/8" |
| FP MPC.03-X MNB 18 |  | Female thread NPT 1/8"  |

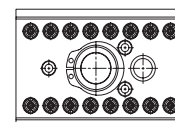
#### Connections

#### Scheme

12



16



#### Spare parts

| N |                 | Description                                          |
|---|-----------------|------------------------------------------------------|
| 1 | MPC.03 MMB 0810 | Plug male thread M8x1,0                              |
|   |                 | Description                                          |
| 2 | FP MPC.03-12    | Fixed part only with locking bush for 12 connections |
|   | FP MPC.03-16    | Fixed part only with locking bush for 16 connections |

Assembling tool for the plug flow size 3mm



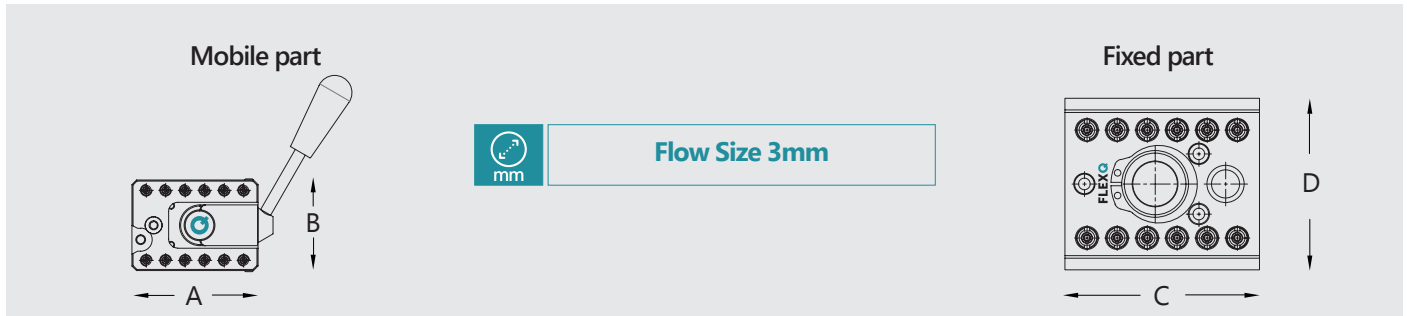
MPC.03 MAT

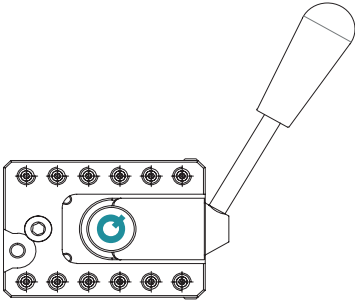
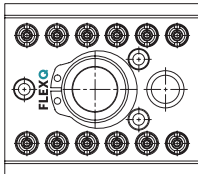
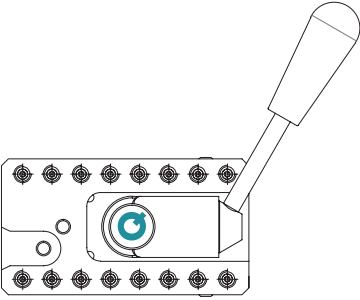
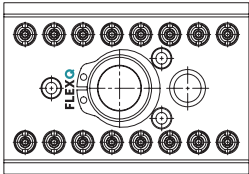


## Multicoupling Series MPC

### Dimensions

 **3mm**



| Mobile part                                                                         | Fixed part                                                                          | A   | B  | C   | D  | n | DN |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|----|-----|----|---|----|
|   |  | 110 | 79 | 110 | 97 | 6 | 3  |
|  |  | 144 | 79 | 110 | 97 | 8 | 3  |

# FLEXQ

■ MULTICOUPLINGS FOR HYDRAULICS / SERIES MPC



## Multicoupling Series MPC

Mobile part Item Codes

 **5mm**



MP MPC 05 - C - X

**MP** Mobile part

**MPC** MPC profile

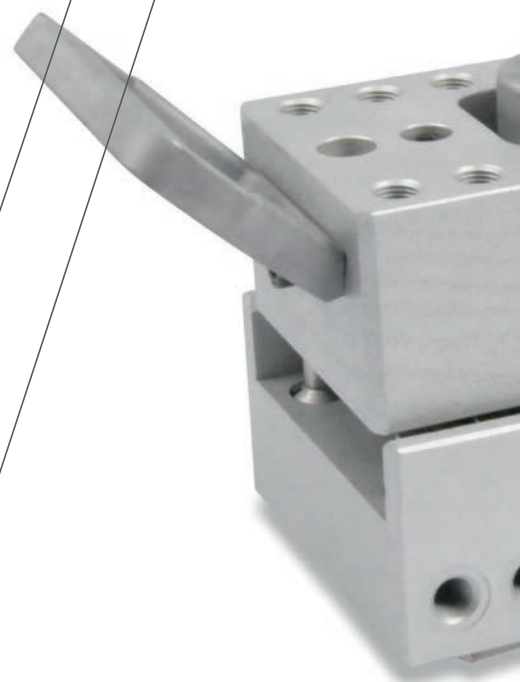
**05** Flow size

**C** Connections

**12** 6 Circuits

**16** 8 Circuits

**X** Socket



### Socket with valve - thread on the aluminium block

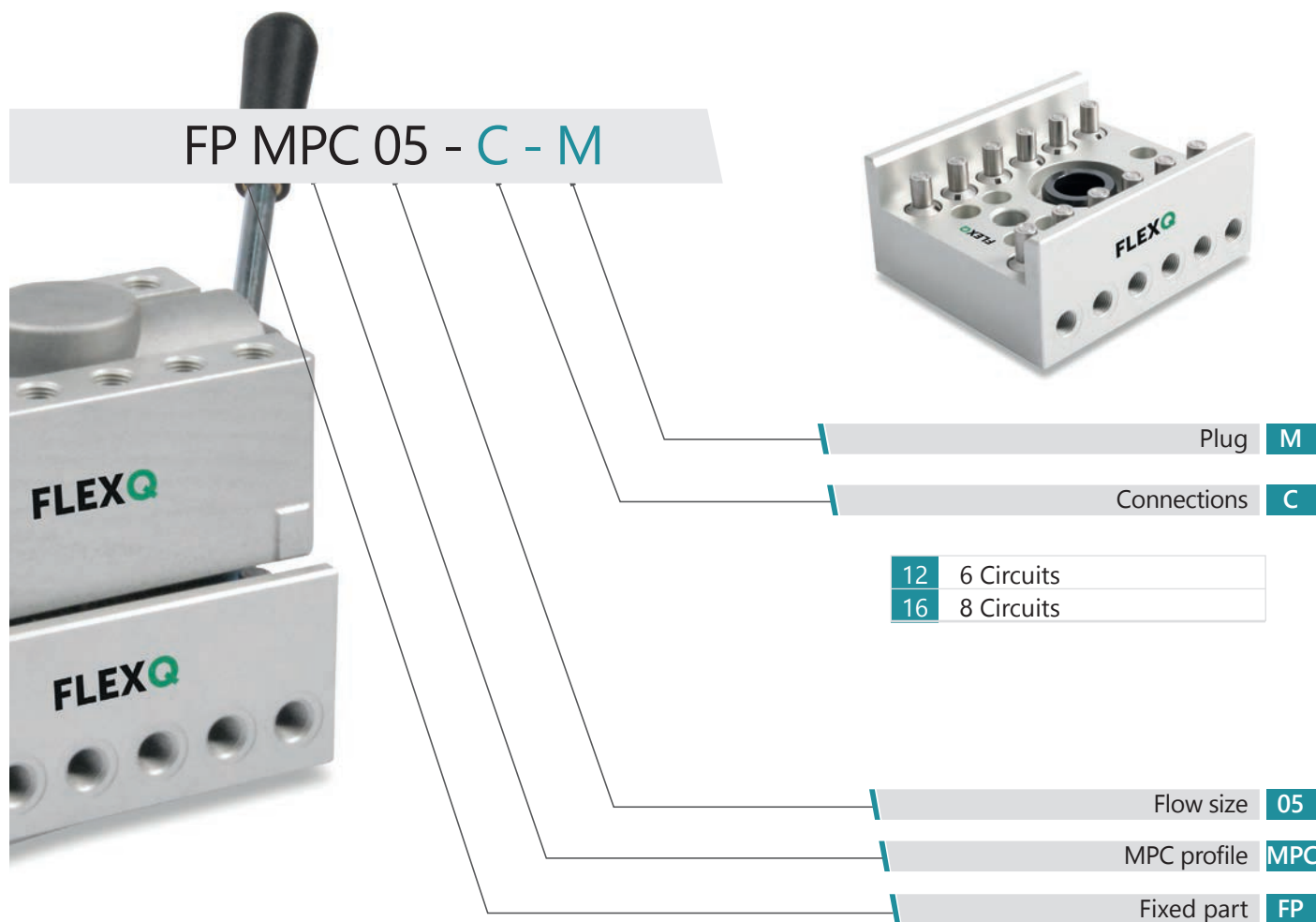
**FFB 14** Female thread BSP 1/4"

**FNB 14** Female thread NPT 1/4"

**FQB 14** Female thread BSPT 1/4"

## Multicoupling Series MPC

### Fixed part Item Codes



#### Plug with valve - thread on the aluminium block

MFB 14 Female thread BSP 1/4"

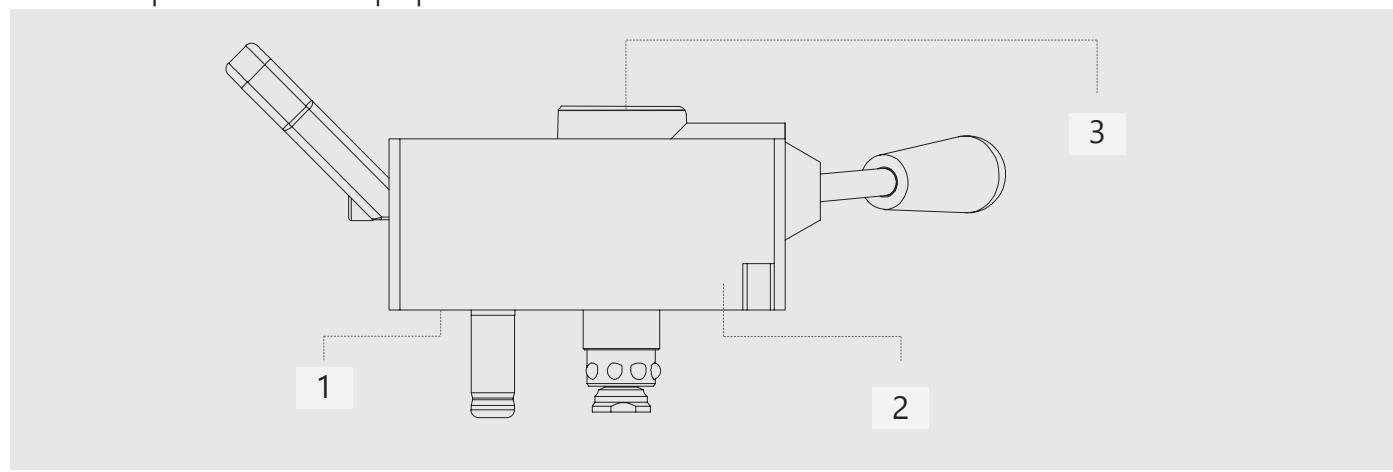
MNB 14 Female thread NPT 1/4"

MQB 14 Female thread BSPT 1/4"

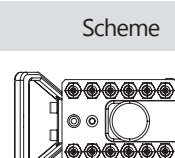
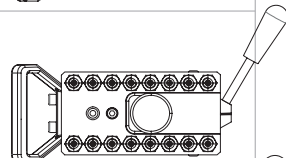
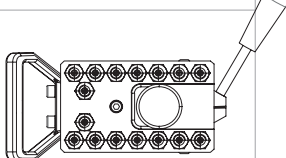
### Multicoupling Series MPC

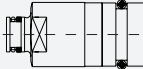
Mobile part Item Equipment

 **5mm**

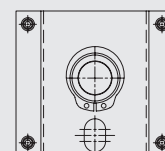


| Assemblies |  | Description             |
|------------|-----------------------------------------------------------------------------------|-------------------------|
|            | MP MPC.05-X FFB 14                                                                | Female thread BSP 1/4"  |
|            | MP MPC.05-X FQB 14                                                                | Female thread BSPT 1/4" |
|            | MP MPC.05-X FNB 14                                                                | Female thread NPT 1/4"  |

| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 12          |   |
| 16          |  |
| 16-01       |  |

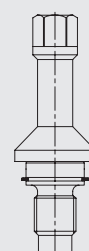
| Spare parts | N |  | Description                                                                                             |
|-------------|---|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|             | 1 | M MPC.05 FAB                                                                        | Socket for assembly  |
|             | 2 | Description                                                                         |                                                                                                         |
|             |   | MP MPC.05-12                                                                        | Mobile part only with locking unit for 12 connections                                                   |
|             |   | MP MPC.05-16                                                                        | Mobile part only with locking unit for 16 connections                                                   |
|             |   | MP MPC.05-16-01                                                                     | Mobile part only with locking unit for 16 connections                                                   |
|             | 3 | L-UNIT BG5                                                                          | Locking unit size 5 for 12 and 16-01 connections                                                        |
|             |   | L-UNIT BG6                                                                          | Locking unit size 6 for 16 connections                                                                  |

Parking plate for Mobile part



FP MPC.05 PP

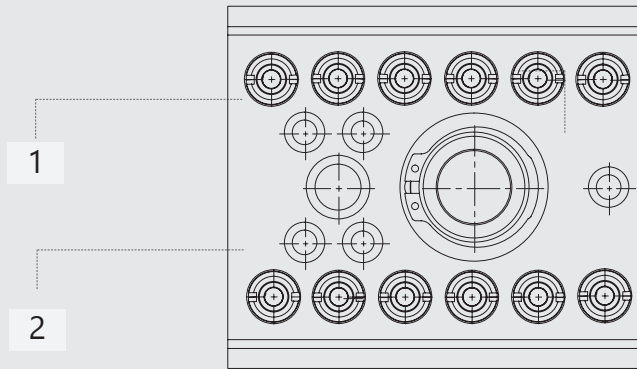
Spindle for screwed version



TS.2025.28x115

### Multicoupling Series MPC

#### Fixed part Item Equipment



#### Assemblies

|                    |  | Description             |
|--------------------|--|-------------------------|
| FP MPC.05-X MFB 14 |  | Female thread BSP 1/4"  |
| FP MPC.05-X MQB 14 |  | Female thread BSPT 1/4" |
| FP MPC.05-X MNB 14 |  | Female thread NPT 1/4"  |

| Connections | Scheme |
|-------------|--------|
| 12          |        |
| 16          |        |
| 16-01       |        |

#### Spare parts

| N |                 | Description                                             |
|---|-----------------|---------------------------------------------------------|
| 1 | MPC.05 MMB 1415 | Plug male thread M14x1,5                                |
|   |                 | Description / Beschreibung                              |
| 2 | FP MPC.05-12    | Fixed part only with locking bush for 12 connections    |
|   | FP MPC.05-16    | Fixed part only with locking bush for 16 connections    |
|   | FP MPC.05-16-01 | Fixed part only with locking bush for 16-01 connections |



Assembling tool for the plug flow size 5mm



MPC.05 MAT

Bush for the screwed version

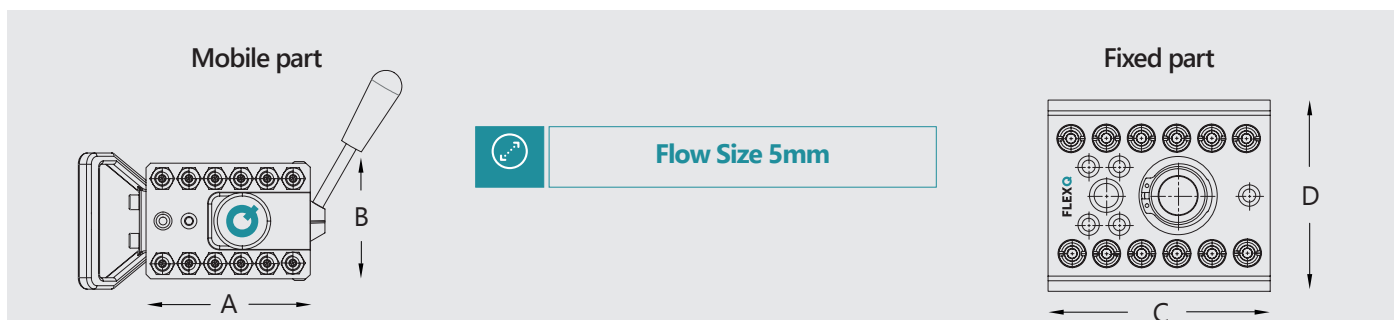


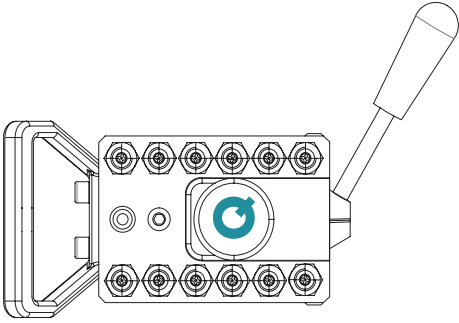
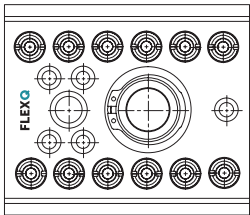
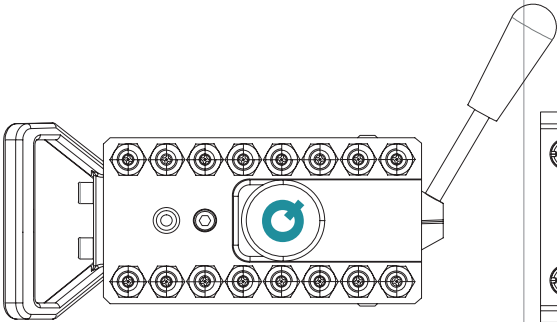
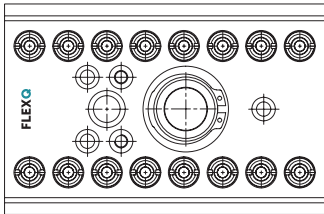
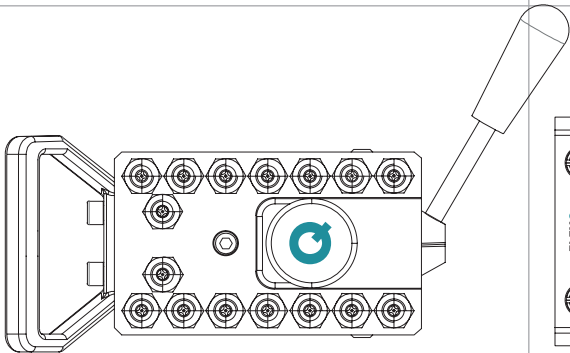
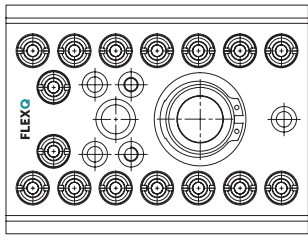
TN-2025.38x27

## Multicoupling Series MPC

### Dimensions

 **5mm**



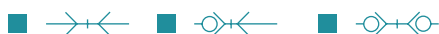
| Mobile part                                                                         | Fixed part                                                                          | A   | B   | C   | D   | n | DN |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|---|----|
|   |   | 145 | 102 | 145 | 125 | 6 | 5  |
|  |  | 191 | 102 | 191 | 125 | 8 | 5  |
|  |  | 168 | 102 | 168 | 125 | 8 | 5  |

# FLEXQ

■ MULTICOUPLINGS FOR HYDRAULICS / SERIES MPC



## SERIE HPT



# FLEXQ

CONNECTORS



### HPT

European profile



Flow Size

HPT 09 - 09 mm

n

Number of Connections

HPT 09 - 6-24



Pressure

16 bar



Temperature range

-5°C +160°C FPM (V)  
-5°C +200°C FPM (V)

Water  
Heating Oil

## SPECIFICATIONS

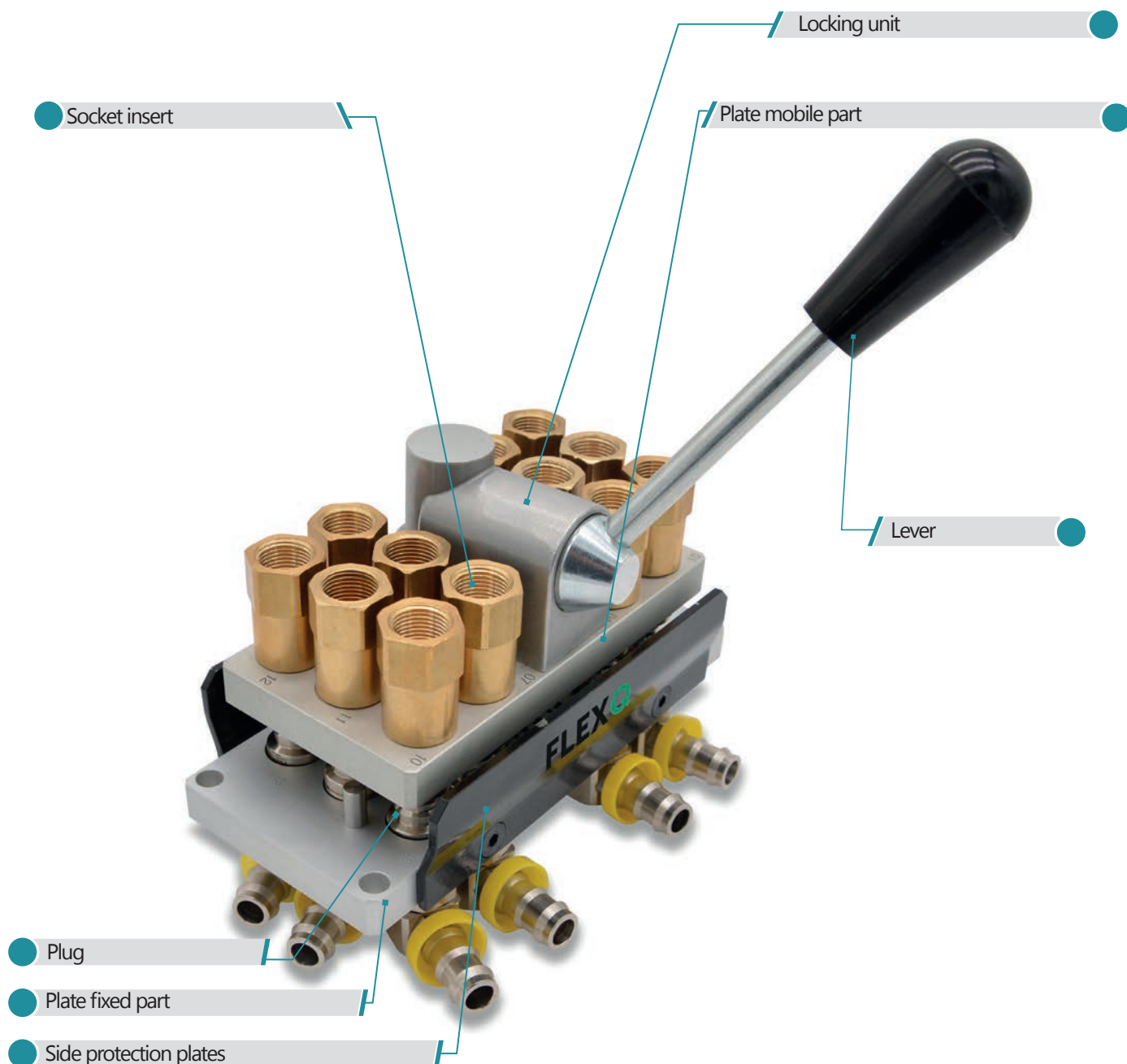
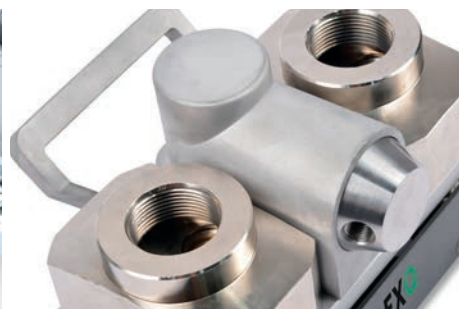
Tool set-up optimization through central locking  
Avoidance of mistakes through fixed position of hoses on the plates  
Many connection options  
The connectors are compatible with the monocouplings of the series HPT

## OPTIONS

Colour coding of the plates  
Stainless Steel option for plates, connectors and locking unit  
High temperature option for connectors  
Safety locking unit

## APPLICATIONS

Thermo regulation  
Injection moulding  
Die casting  
Test benches



### Multicoupling Series HPT

Mobile part Item Codes



9mm



MP HPT 09 - C - X

**MP** Mobile part

**HPT** HPT profil

**09** Flow size

**C** Connections

6 3 Circuits

8 4 Circuits

12 6 Circuits

16 8 Circuits

20 10 Circuits

24 12 Circuits

**X** Socket insert



#### Socket with valve



**FHB 10** Standard hose type Ø 10mm

**FHB 12** Standard hose type Ø 12mm



**FPB 10** Clampless hose type Ø 10mm

**FPB 13** Clampless hose type Ø 12mm



**FFB 38** Female thread BSP 3/8"

#### Socket without valve



**FHF 10** Standard hose type Ø 10mm

**FHF 12** Standard hose type Ø 12mm



**FPF 10** Clampless hose type Ø 10mm

**FPF 13** Clampless hose type Ø 12mm



**FFF 38** Female thread BSP 3/8"

## Multicoupling Series HPT

Fixed part Item Codes

FP HPT 09 C - X - Y

Elbow **Y**

Plug insert **X**

Connections **C**

|    |             |
|----|-------------|
| 6  | 3 Circuits  |
| 8  | 4 Circuits  |
| 12 | 6 Circuits  |
| 16 | 8 Circuits  |
| 20 | 10 Circuits |
| 24 | 12 Circuits |

Flow size **09**

HPT profile **HPT**

Fixed part **FP**

### Plug with valve



MHB 10 Standard hose type Ø 10mm  
MHB 12 Standard hose type Ø 12mm



MPB 10 Clampless hose type Ø 10mm  
MPB 13 Clampless hose type Ø 12mm



MFB 38 Female thread BSP 3/8"

### Plug without valve



MHF 10 Standard hose type Ø 10mm  
MHF 12 Standard hose type Ø 12mm



MPF 10 Clampless hose type Ø 10mm  
MPF 13 Clampless hose type Ø 12mm

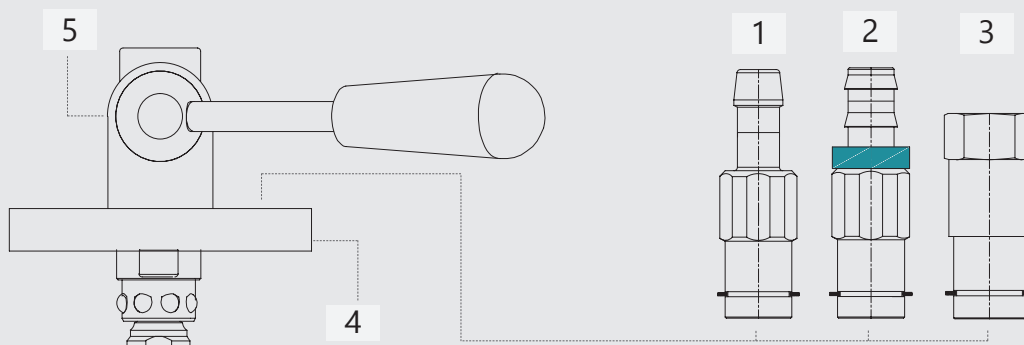


MFF 38 Female thread BSP 3/8"

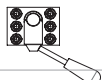
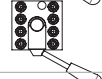
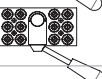
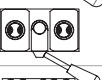
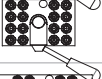
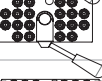
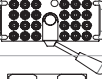
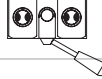
### Multicoupling Series HPT

#### Mobile part Item Equipment

9mm



| Assemblies | N | With valve                 | Without valve              | Description                             |
|------------|---|----------------------------|----------------------------|-----------------------------------------|
|            | 1 | MP HPT.09- <b>X</b> FHB 10 | MP HPT.09- <b>X</b> FHF 10 | Standard hose tail Ø 10mm               |
|            |   | MP HPT.09- <b>X</b> FHB 12 | MP HPT.09- <b>X</b> FHF 12 | Standard hose tail Ø 12mm               |
|            | 2 | MP HPT.09- <b>X</b> FPB 10 | MP HPT.09- <b>X</b> FPF 10 | Clampless hose tail Ø 10mm              |
|            |   | MP HPT.09- <b>X</b> FPB 13 | MP HPT.09- <b>X</b> FPF 13 | Clampless hose tail Ø 13mm              |
|            | 3 | MP HPT.09- <b>X</b> FFB 38 | MP HPT.09- <b>X</b> FFF 38 | Female thread BSP 3/8"                  |
|            |   | MP HPT.09- <b>X</b> FNB 38 | MP HPT.09- <b>X</b> FNF 38 | Female thread NPT 3/8"                  |
|            |   | MP HPT.09- <b>12</b> 10 C  |                            | Collector with female thread BSP 1"     |
|            |   | MP HPT.09- <b>20</b> 114 C |                            | Collector with female thread BSP 1 1/4" |
|            |   |                            |                            |                                         |

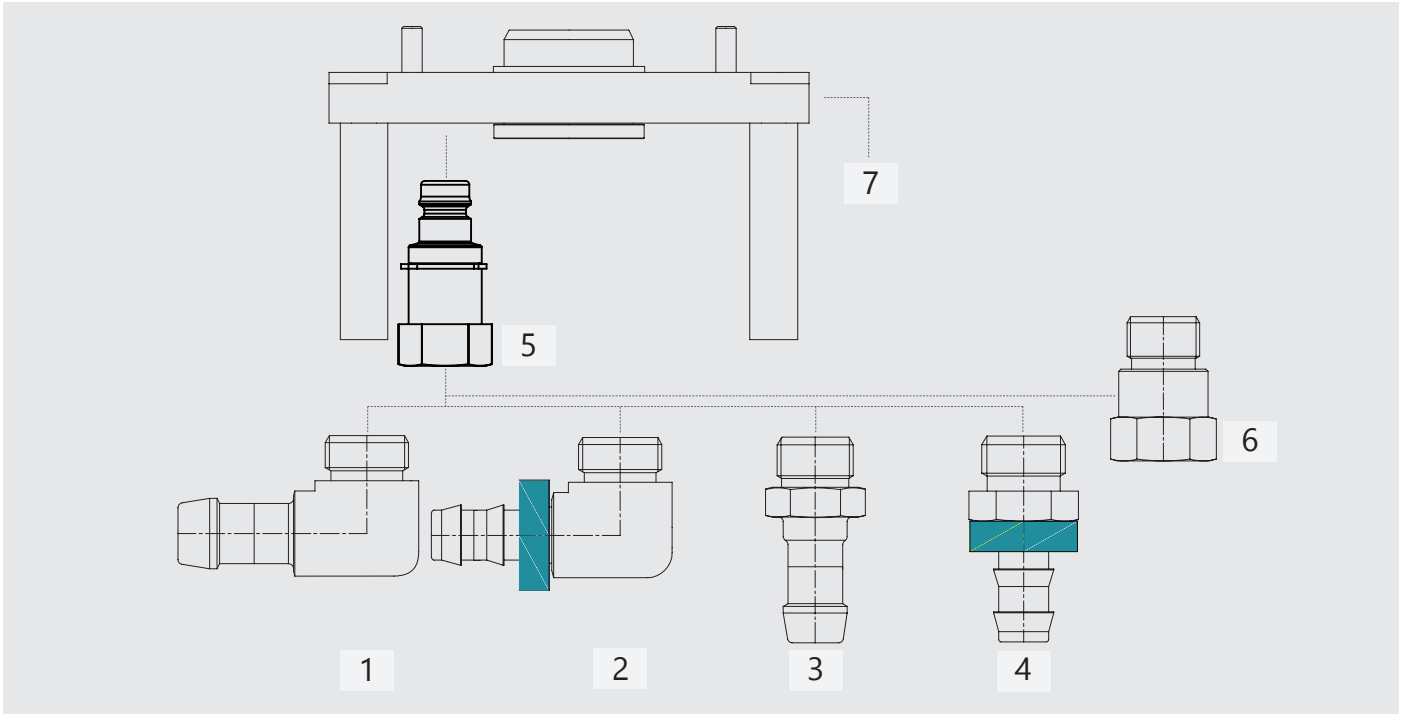
| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 6           |  |
| 8           |  |
| 12          |  |
| 12C         |  |
| 16          |  |
| 20          |  |
| 24          |  |
| 20C         |  |

| Spare parts | N | With valve      | Without valve   | Description                            |
|-------------|---|-----------------|-----------------|----------------------------------------|
|             | 1 | M HPT.09 FHB 10 | M HPT.09 FHF 10 | Socket with standard hose tail Ø 10mm  |
|             |   | M HPT.09 FHB 12 | M HPT.09 FHF 12 | Socket with standard hose tail Ø 12mm  |
|             | 2 | M HPT.09 FPB 10 | M HPT.09 FPF 10 | Socket with clampless hose tail Ø 10mm |
|             |   | M HPT.09 FPB 13 | M HPT.09 FPF 13 | Socket with clampless hose tail Ø 13mm |
|             | 3 | M HPT.09 FFB 38 | M HPT.09 FFF 38 | Socket with female thread BSP 3/8"     |
|             |   | M HPT.09 FNB 38 | M HPT.09 FNF 38 | Socket with female thread NPT 3/8"     |
|             |   |                 |                 |                                        |
|             |   |                 |                 |                                        |
|             |   |                 |                 |                                        |

| N | Code                | Description                        |
|---|---------------------|------------------------------------|
| 4 | MP HPT.09- <b>X</b> | Mobile part only with locking unit |
| 5 | L-UNIT BG1          | Locking unit size 1                |

### Multicoupling Series HPT

Fixed part Item Equipment



| Assemblies | N | With valve                                                     | Without valve                                                  | Description                                                                                          | Connections | Scheme |
|------------|---|----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------|--------|
|            | 1 | FP HPT.09- <b>X</b> MHB 10-90<br>FP HPT.09- <b>X</b> MHB 12-90 | FP HPT.09- <b>X</b> MHF 10-90<br>FP HPT.09- <b>X</b> MHF 12-90 | Plug + 90° elbow with standard hose tail Ø 10mm<br>Plug + 90° elbow with standard hose tail Ø 12mm   | 6           |        |
|            | 2 | FP HPT.09- <b>X</b> MPB 10-90<br>FP HPT.09- <b>X</b> MPB 13-90 | FP HPT.09- <b>X</b> MPF 10-90<br>FP HPT.09- <b>X</b> MPF 13-90 | Plug + 90° elbow with clampless hose tail Ø 10mm<br>Plug + 90° elbow with clampless hose tail Ø 13mm | 8           |        |
|            | 3 | FP HPT.09- <b>X</b> MHB 10<br>FP HPT.09- <b>X</b> MHB 12       | FP HPT.09- <b>X</b> MHF 10<br>FP HPT.09- <b>X</b> MHF 12       | Plug + adapter with standard hose tail Ø 10mm<br>Plug + adapter with standard hose tail Ø 12mm       | 12          |        |
|            | 4 | FP HPT.09- <b>X</b> MPB 10<br>FP HPT.09- <b>X</b> MPB 13       | FP HPT.09- <b>X</b> MPF 10<br>FP HPT.09- <b>X</b> MPF 13       | Plug + adapter with clampless hose tail Ø 10mm<br>Plug + adapter with clampless hose tail Ø 13mm     | 12K         |        |
|            | 5 | FP HPT.09- <b>X</b> MFB 38<br>FP HPT.09- <b>X</b> MNB 38       | FP HPT.09- <b>X</b> MFF 38<br>FP HPT.09- <b>X</b> MNF 38       | Plug female thread BSP 3/8"<br>Plug female thread NPT 3/8"                                           | 16          |        |
|            |   |                                                                |                                                                |                                                                                                      | 20          |        |
|            |   |                                                                |                                                                |                                                                                                      | 24          |        |
|            |   |                                                                |                                                                |                                                                                                      |             |        |
|            |   |                                                                |                                                                |                                                                                                      |             |        |
|            |   |                                                                |                                                                |                                                                                                      |             |        |

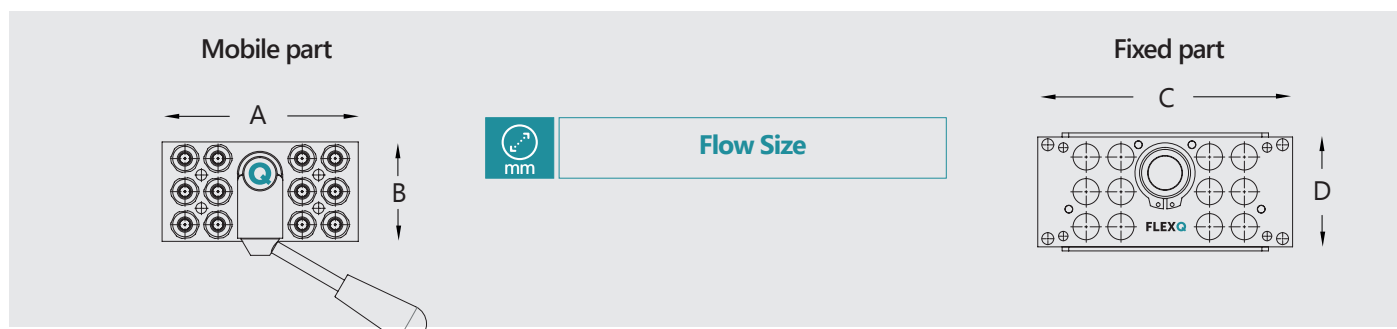
| Spare parts | N | Code                               | Description                                                                                                            |
|-------------|---|------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|             | 1 | ELH 38/10-90<br>ELH 38/12-90       | Male BSP 3/8" - 90° elbow with standard hose tail Ø 10mm<br>Male BSP 3/8" - 90° elbow with standard hose tail Ø 12mm   |
|             | 2 | ELP 38/10-90<br>ELP 38/13-90       | Male BSP 3/8" - 90° elbow with clampless hose tail Ø 10mm<br>Male BSP 3/8" - 90° elbow with clampless hose tail Ø 13mm |
|             | 3 | MHA 38/10<br>MHA 38/12             | Male BSP 3/8" adapter with standard hose tail Ø 10mm<br>Male BSP 3/8" adapter with standard hose tail Ø 12mm           |
|             | 4 | MPA 38/10<br>MPA 38/13             | Male BSP 3/8" adapter with clampless hose tail Ø 10mm<br>Male BSP 3/8" adapter with clampless hose tail Ø 13mm         |
|             | 5 | M HPT.09 MFB 38<br>M HPT.09 MFF 38 | Plug female thread BSP 3/8" with valve<br>Plug female thread NPT 3/8" without valve                                    |
|             | 6 | MFE 38/38-20                       | Male female extension BSP 3/8"                                                                                         |
|             | 7 | FP HPT.09- <b>X</b>                | Fixed part not equipped                                                                                                |
|             |   |                                    |                                                                                                                        |
|             |   |                                    |                                                                                                                        |

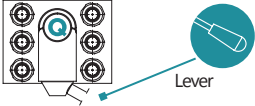
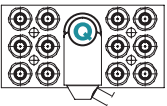
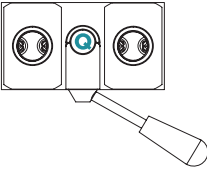
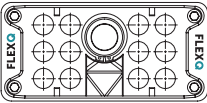
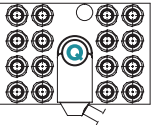
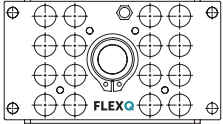
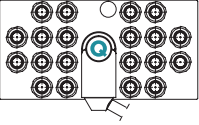
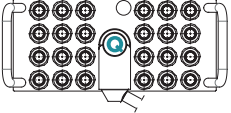


## Multicoupling Series HPT

### Dimensions

 **9mm**

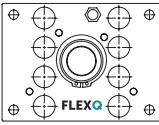
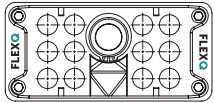
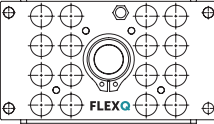


| Mobile part                                                                         | Fixed part                                                                          | A   | B   | C   | D   | n  | DN |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|----|----|
|    |    | 102 | 78  | 140 | 82  | 6  | 9  |
|  |  | 102 | 104 | 140 | 104 | 8  | 9  |
|  |  | 154 | 78  | 190 | 82  | 12 | 9  |
|  |  | 154 | 78  | 190 | 82  | 12 | 9  |
|  |  | 154 | 103 | 190 | 104 | 16 | 9  |
|  |  | 226 | 103 | 206 | 104 | 20 | 9  |
|  |  | 226 | 103 | 258 | 104 | 24 | 9  |

## Multicoupling Series HPT

Fixed part unequipped



| Item code     | Fixed plate                                                                         | Description |
|---------------|-------------------------------------------------------------------------------------|-------------|
| FP.HPT.09-06  |    |             |
| FP.HPT.09-08  |  |             |
| FP.HPT.09-12  |  |             |
| FP.MPT.09-12K |  |             |
| FP.HPT.09-16  |  |             |
| FP.HPT.09-20  |  |             |
| FP.HPT.09-24  |  |             |

## SERIE MPT



# FLEXQ

CONNECTORS



### MPT

Standard profile



#### Flow Size

MPT 09 - 09 mm  
MPT 12 - 12 mm  
MPT 16 - 16 mm



#### Number of Connections

MPT 09 - 6-24  
MPT 12 - 6-20  
MPT 16 - 12



#### Pressure

16 bar



#### Temperature range

-5°C +160°C FPM (V)  
-5°C +200°C FPM (V)

Water  
Heating Oil

## SPECIFICATIONS

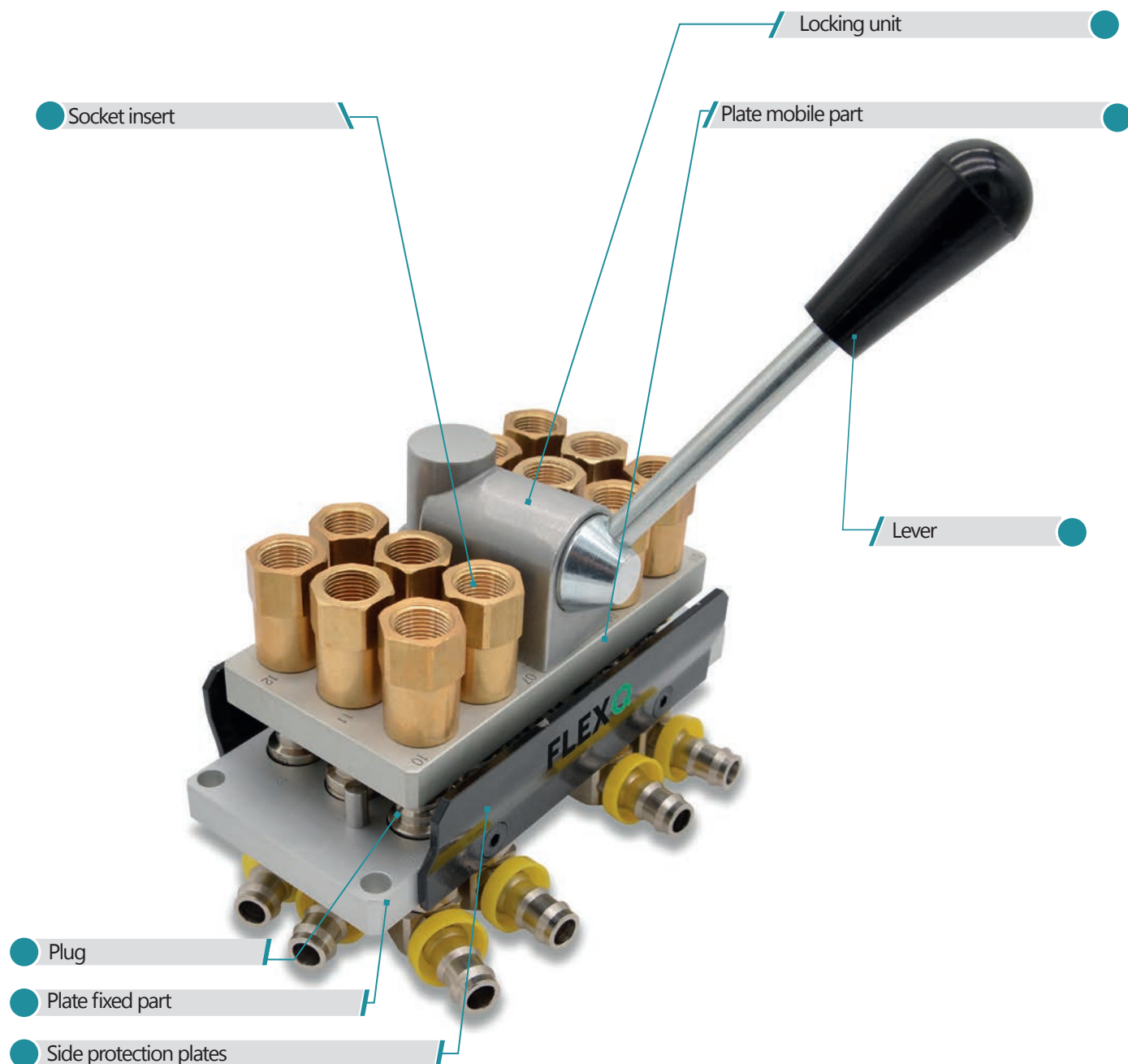
Tool set-up optimization through central locking  
Avoidance of mistakes through fixed position of hoses on the plates  
Many connection options  
The connectors are compatible with the monocouplings of the series MPT

## OPTIONS

Colour coding of the plates  
Stainless Steel option for plates, connectors and locking unit  
High temperature option for connectors  
Safety locking unit

## APPLICATIONS

Thermo regulation  
Injection moulding  
Die casting  
Test benches



## Multicoupling Series MPT

Mobile part Item Codes

 **9mm**



MP MPT 09 - C - X

**MP** Mobile part

**MPT** MPT profil

**09** Flow size

**C** Connections

|    |             |
|----|-------------|
| 6  | 3 Circuits  |
| 8  | 4 Circuits  |
| 12 | 6 Circuits  |
| 16 | 8 Circuits  |
| 20 | 10 Circuits |
| 24 | 12 Circuits |

**X** Socket insert



### Socket with valve



**FHB 10** Standard hose type Ø 10mm

**FHB 12** Standard hose type Ø 12mm



**FPB 10** Clampless hose type Ø 10mm

**FPB 13** Clampless hose type Ø 12mm



**FFB 38** Female thread BSP 3/8"

### Socket without valve



**FHF 10** Standard hose type Ø 10mm

**FHF 12** Standard hose type Ø 12mm



**FPF 10** Clampless hose type Ø 10mm

**FPF 13** Clampless hose type Ø 12mm



**FFF 38** Female thread BSP 3/8"

## Multicoupling Series MPT

### Fixed part Item Codes

**FP MPT 09 C - X - Y**

Elbow **Y**

Plug insert **X**

Connections **C**

|    |             |
|----|-------------|
| 6  | 3 Circuits  |
| 8  | 4 Circuits  |
| 12 | 6 Circuits  |
| 16 | 8 Circuits  |
| 20 | 10 Circuits |
| 24 | 12 Circuits |

Flow size **09**

MPT profile **MPT**

Fixed part **FP**

#### Plug with valve



**MHB 10** Standard hose type Ø 10mm  
**MHB 12** Standard hose type Ø 12mm



**MPB 10** Clampless hose type Ø 10mm  
**MPB 13** Clampless hose type Ø 12mm



**MFB 38** Female thread BSP 3/8"

#### Plug without valve



**MHF 10** Standard hose type Ø 10mm  
**MHF 12** Standard hose type Ø 12mm



**MPF 10** Clampless hose type Ø 10mm  
**MPF 13** Clampless hose type Ø 12mm

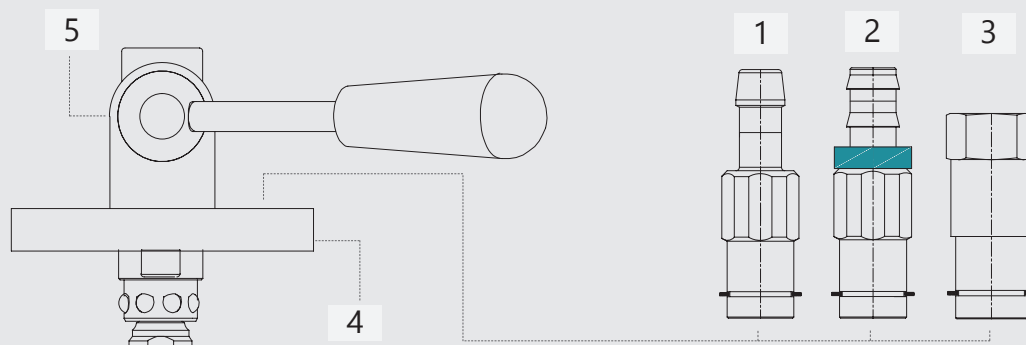


**MFF 38** Female thread BSP 3/8"

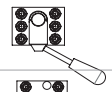
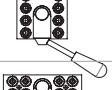
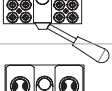
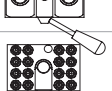
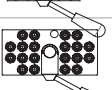
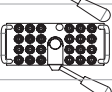
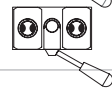
### Multicoupling Series MPT

#### Mobile part Item Equipment

 **9mm**



| Assemblies | N | With valve         | Without valve      | Description                             |
|------------|---|--------------------|--------------------|-----------------------------------------|
|            | 1 | MP MPT.09-X FHB 10 | MP MPT.09-X FHF 10 | Standard hose tail Ø 10mm               |
|            |   | MP MPT.09-X FHB 12 | MP MPT.09-X FHF 12 | Standard hose tail Ø 12mm               |
|            | 2 | MP MPT.09-X FPB 10 | MP MPT.09-X FPF 10 | Clampless hose tail Ø 10mm              |
|            |   | MP MPT.09-X FPB 13 | MP MPT.09-X FPF 13 | Clampless hose tail Ø 13mm              |
|            | 3 | MP MPT.09-X FFB 38 | MP MPT.09-X FFF 38 | Female thread BSP 3/8"                  |
|            |   | MP MPT.09-X FNB 38 | MP MPT.09-X FNF 38 | Female thread NPT 3/8"                  |
|            |   | MP MPT.09-12 10 C  |                    | Collector with female thread BSP 1"     |
|            |   | MP MPT.09-20 114 C |                    | Collector with female thread BSP 1 1/4" |
|            |   |                    |                    |                                         |

| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 6           |  |
| 8           |  |
| 12          |  |
| 12C         |  |
| 16          |  |
| 20          |  |
| 24          |  |
| 20C         |  |

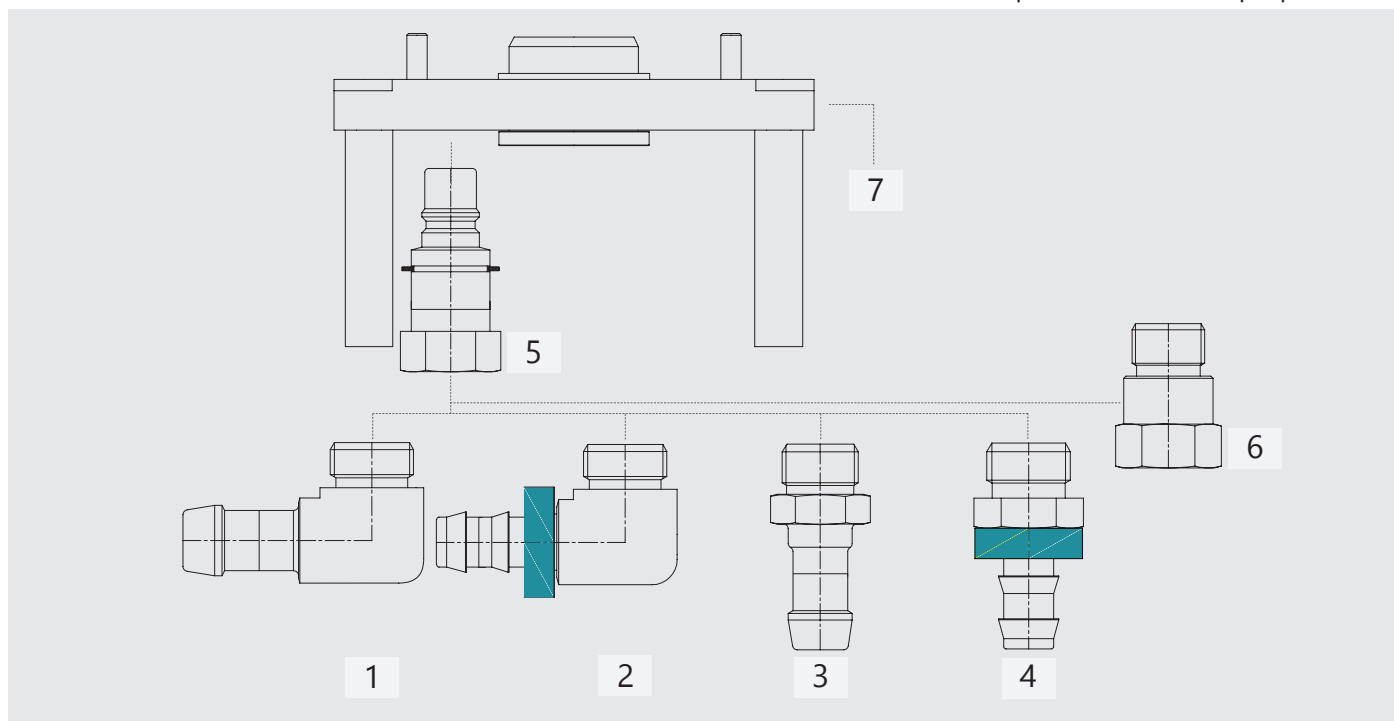
| Spare parts | N | With valve      | Without valve   | Description                            |
|-------------|---|-----------------|-----------------|----------------------------------------|
|             | 1 | M MPT.09 FHB 10 | M MPT.09 FHF 10 | Socket with standard hose tail Ø 10mm  |
|             |   | M MPT.09 FHB 12 | M MPT.09 FHF 12 | Socket with standard hose tail Ø 12mm  |
|             | 2 | M MPT.09 FPB 10 | M MPT.09 FPF 10 | Socket with clampless hose tail Ø 10mm |
|             |   | M MPT.09 FPB 13 | M MPT.09 FPF 13 | Socket with clampless hose tail Ø 13mm |
|             | 3 | M MPT.09 FFB 38 | M MPT.09 FFF 38 | Socket with female thread BSP 3/8"     |
|             |   | M MPT.09 FNB 38 | M MPT.09 FNF 38 | Socket with female thread NPT 3/8"     |
|             |   |                 |                 |                                        |
|             |   |                 |                 |                                        |
|             |   |                 |                 |                                        |

| N | Code        | Description                        |
|---|-------------|------------------------------------|
| 4 | MP MPT.09-X | Mobile part only with locking unit |
| 5 | L-UNIT BG1  | Locking unit size 1                |

### Multicoupling Series MPT

Fixed part Item Equipment



| Assemblies | N | With valve                                     | Without valve                                  | Description                                                                                          | Connections | Scheme |
|------------|---|------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------|--------|
|            | 1 | FP MPT.09-X MHB 10-90<br>FP MPT.09-X MHB 12-90 | FP MPT.09-X MHF 10-90<br>FP MPT.09-X MHF 12-90 | Plug + 90° elbow with standard hose tail Ø 10mm<br>Plug + 90° elbow with standard hose tail Ø 12mm   | 6           |        |
|            | 2 | FP MPT.09-X MPB 10-90<br>FP MPT.09-X MPB 13-90 | FP MPT.09-X MPF 10-90<br>FP MPT.09-X MPF 13-90 | Plug + 90° elbow with clampless hose tail Ø 10mm<br>Plug + 90° elbow with clampless hose tail Ø 13mm | 8           |        |
|            | 3 | FP MPT.09-X MHB 10<br>FP MPT.09-X MHB 12       | FP MPT.09-X MHF 10<br>FP MPT.09-X MHF 12       | Plug + adapter with standard hose tail Ø 10mm<br>Plug + adapter with standard hose tail Ø 12mm       | 12          |        |
|            | 4 | FP MPT.09-X MPB 10<br>FP MPT.09-X MPB 13       | FP MPT.09-X MPF 10<br>FP MPT.09-X MPF 13       | Plug + adapter with clampless hose tail Ø 10mm<br>Plug + adapter with clampless hose tail Ø 13mm     | 12K         |        |
|            | 5 | FP MPT.09-X MFB 38<br>FP MPT.09-X MNB 38       | FP MPT.09-X MFF 38<br>FP MPT.09-X MNF 38       | Plug female thread BSP 3/8"<br>Plug female thread NPT 3/8"                                           | 16          |        |
|            |   |                                                |                                                |                                                                                                      | 20          |        |
|            |   |                                                |                                                |                                                                                                      | 24          |        |

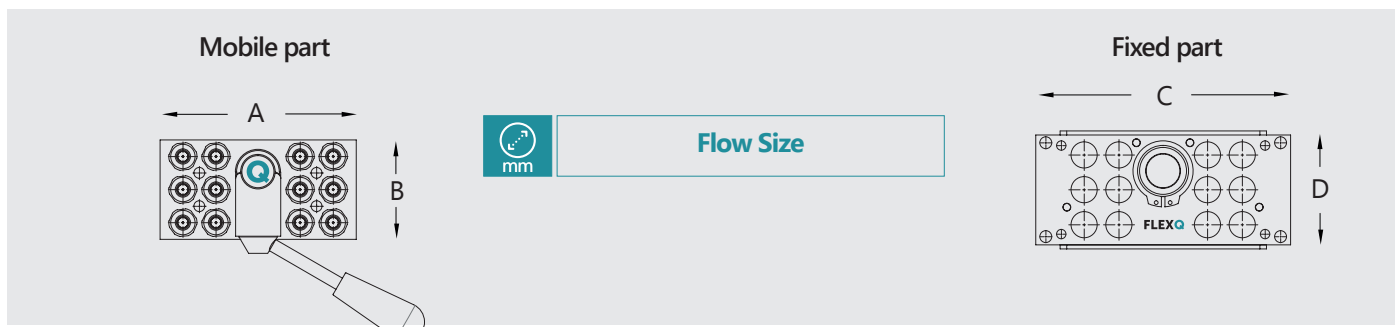
| Spare parts | N | Code                               | Description                                                                                                            |
|-------------|---|------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|             | 1 | ELH 38/10-90<br>ELH 38/12-90       | Male BSP 3/8" - 90° elbow with standard hose tail Ø 10mm<br>Male BSP 3/8" - 90° elbow with standard hose tail Ø 12mm   |
|             | 2 | ELP 38/10-90<br>ELP 38/13-90       | Male BSP 3/8" - 90° elbow with clampless hose tail Ø 10mm<br>Male BSP 3/8" - 90° elbow with clampless hose tail Ø 13mm |
|             | 3 | MHA 38/10<br>MHA 38/12             | Male BSP 3/8" adapter with standard hose tail Ø 10mm<br>Male BSP 3/8" adapter with standard hose tail Ø 12mm           |
|             | 4 | MPA 38/10<br>MPA 38/13             | Male BSP 3/8" adapter with clampless hose tail Ø 10mm<br>Male BSP 3/8" adapter with clampless hose tail Ø 13mm         |
|             | 5 | M MPT.09 MFB 38<br>M MPT.09 MFF 38 | Plug female thread BSP 3/8" with valve<br>Plug female thread NPT 3/8" without valve                                    |
|             | 6 | MFE 38/38-20                       | Male female extension BSP 3/8"                                                                                         |
|             | 7 | FP MPT.09-X                        | Fixed part not equipped                                                                                                |

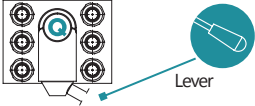
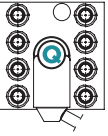
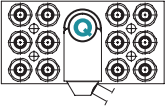
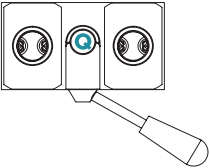
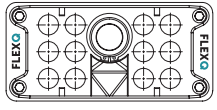
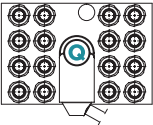
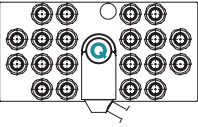
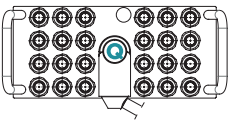


### Multicoupling Series MPT

#### Dimensions

 **9mm**



| Mobile part                                                                         | Fixed part                                                                          | A   | B   | C   | D   | n  | DN |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|----|----|
|    |    | 102 | 78  | 140 | 82  | 6  | 9  |
|  |  | 102 | 104 | 140 | 104 | 8  | 9  |
|  |  | 154 | 78  | 190 | 82  | 12 | 9  |
|  |  | 154 | 78  | 190 | 82  | 12 | 9  |
|  |  | 154 | 103 | 190 | 104 | 16 | 9  |
|  |  | 226 | 103 | 206 | 104 | 20 | 9  |
|  |  | 226 | 103 | 258 | 104 | 24 | 9  |

## Multicoupling Series MPT

Fixed part unequipped



| Item code    | Fixed plate | Description |
|--------------|-------------|-------------|
| FPMPT.09-06  |             |             |
| FPMPT.09-08  |             |             |
| FPMPT.09-12  |             |             |
| FPMPT.09-12K |             |             |
| FPMPT.09-16  |             |             |
| FPMPT.09-20  |             |             |
| FPMPT.09-24  |             |             |

### Multicoupling Series MPT

Mobile part Item Codes

 **12mm**



**MP MPT 12 - C - X**

**MP** Mobile part

**MPT** MPT profile

**12** Flow size

**C** Connections

|    |             |
|----|-------------|
| 6  | 3 Circuits  |
| 10 | 5 Circuits  |
| 12 | 6 Circuits  |
| 18 | 9 Circuits  |
| 20 | 10 Circuits |

**X** Socket insert



#### Socket with valve



**FHB 12** Standard hose type Ø 12mm

**FHB 16** Standard hose type Ø 16mm



**FPB 13** Clampless hose type Ø 13mm

**FPB 16** Clampless hose type Ø 16mm



**FFB 12** Female thread BSP 1/2"

#### Socket without valve



**FHF 12** Standard hose type Ø 12mm

**FHF 16** Standard hose type Ø 16mm



**FPF 13** Clampless hose type Ø 13mm

**FPF 16** Clampless hose type Ø 16mm



**FFF 12** Female thread BSP 1/2"

## Multicoupling Series MPT

Fixed part Item Codes

**FP MPT 12 C - X - Y**

Elbow **Y**

Plug insert **X**

Connections **C**

|    |             |
|----|-------------|
| 6  | 3 Circuits  |
| 10 | 5 Circuits  |
| 12 | 6 Circuits  |
| 18 | 9 Circuits  |
| 20 | 10 Circuits |

Flow size **12**

MPT profile **MPT**

Fixed part **FP**

### Plug with valve



**MHB 12** Standard hose type Ø 12mm  
**MHB 16** Standard hose type Ø 13mm



**MPB 13** Clampless hose type Ø 13mm  
**MPB 16** Clampless hose type Ø 13mm



**MFB 12** Female thread BSP 1/2"

### Plug without valve



**MHF 12** Standard hose type Ø 12mm  
**MHF 16** Standard hose type Ø 16mm



**MPF 13** Clampless hose type Ø 13mm  
**MPF 16** Clampless hose type Ø 16mm

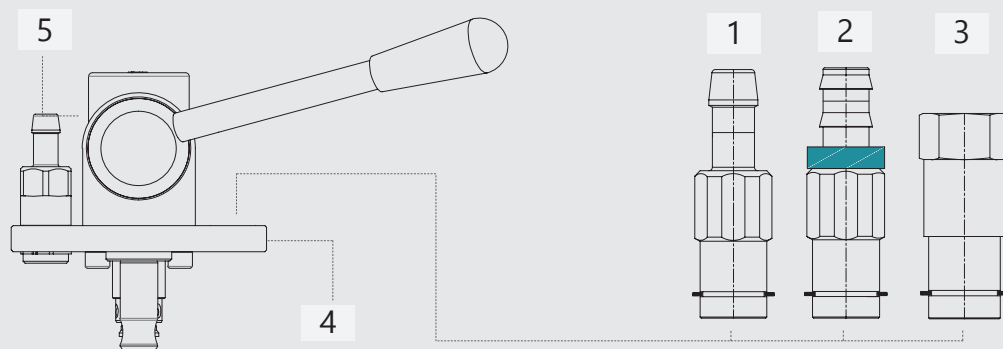


**MFF 12** Female thread BSP 1/2"

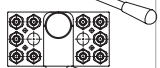
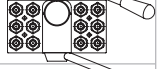
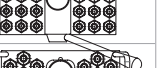
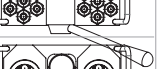
### Multicoupling Series MPT

#### Mobile part Item Equipment

 **12mm**



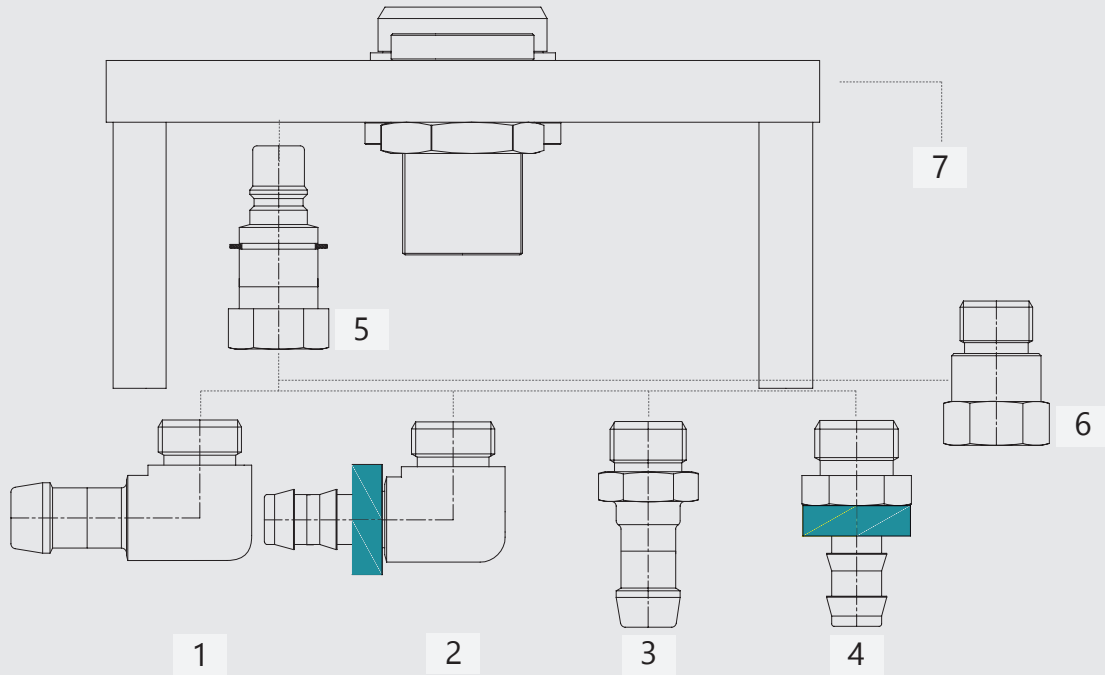
| Assemblies | N | With valve         | Without valve      | Description                             |
|------------|---|--------------------|--------------------|-----------------------------------------|
|            | 1 | MP MPT.12-X FHB 12 | MP MPT.12-X FHF 12 | Standard hose tail Ø 12mm               |
|            |   | MP MPT.12-X FHB 16 | MP MPT.12-X FHF 16 | Standard hose tail Ø 16mm               |
|            | 2 | MP MPT.12-X FPB 13 | MP MPT.12-X FPF 13 | Clampless hose tail Ø 13mm              |
|            |   | MP MPT.12-X FPB 16 | MP MPT.12-X FPF 16 | Clampless hose tail Ø 16mm              |
|            | 3 | MP MPT.12-X FFB 12 | MP MPT.12-X FFF 12 | Female thread BSP 1/2"                  |
|            |   | MP MPT.12-X FNB 12 | MP MPT.12-X FNF 12 | Female thread NPT 1/2"                  |
|            |   | MP MPT.12-12 114 C |                    | Collector with female thread BSP 1 1/4" |
|            |   | MP MPT.12-20 112 C |                    | Collector with female thread BSP 1 1/2" |

| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 6           |  |
| 10          |  |
| 12          |  |
| 12          |  |
| 18          |  |
| 20          |  |
| 20          |  |

| Spare parts | N | With valve      | Without valve                      | Description                            |
|-------------|---|-----------------|------------------------------------|----------------------------------------|
|             | 1 | M MPT.12 FHB 12 | M MPT.12 FHF 12                    | Socket with standard hose tail Ø 12mm  |
|             |   | M MPT.12 FHB 16 | M MPT.12 FHF 16                    | Socket with standard hose tail Ø 16mm  |
|             | 2 | M MPT.12 FPB 13 | M MPT.12 FPF 13                    | Socket with clampless hose tail Ø 13mm |
|             |   | M MPT.12 FPB 16 | M MPT.12 FPF 16                    | Socket with clampless hose tail Ø 16mm |
|             | 3 | M MPT.12 FFB 12 | M MPT.12 FFF 12                    | Socket with female thread BSP 1/2"     |
|             |   | M MPT.12 FNB 12 | M MPT.12 FNF 12                    | Socket with female thread NPT 1/2"     |
|             | N | Code            | Description                        |                                        |
|             | 4 | MP MPT.12-X     | Mobile part only with locking unit |                                        |
|             | 5 | L-UNIT BG2      | Locking unit size 2                |                                        |

### Multicoupling Series MPT

#### Fixed part Item Equipment



| Assemblies | N | With valve            | Without valve         | Description                                      | Connections | Scheme |
|------------|---|-----------------------|-----------------------|--------------------------------------------------|-------------|--------|
|            | 1 | FP MPT.12-X MHB 12-90 | FP MPT.12-X MHF 12-90 | Plug + 90° elbow with standard hose tail Ø 12mm  | 6           |        |
|            |   | FP MPT.12-X MHB 16-90 | FP MPT.12-X MHF 16-90 | Plug + 90° elbow with standard hose tail Ø 16mm  |             |        |
|            | 2 | FP MPT.12-X MPB 13-90 | FP MPT.12-X MPF 13-90 | Plug + 90° elbow with clampless hose tail Ø 13mm | 10          |        |
|            |   | FP MPT.12-X MPB 16-90 | FP MPT.12-X MPF 16-90 | Plug + 90° elbow with clampless hose tail Ø 16mm |             |        |
|            | 3 | FP MPT.12-X MHB 12    | FP MPT.12-X MHF 12    | Plug + adapter with standard hose tail Ø 12mm    | 12          |        |
|            |   | FP MPT.12-X MHB 16    | FP MPT.12-X MHF 16    | Plug + adapter with standard hose tail Ø 16mm    |             |        |
|            | 4 | FP MPT.12-X MPB 13    | FP MPT.12-X MPF 13    | Plug + adapter with clampless hose tail Ø 13mm   | 18          |        |
|            |   | FP MPT.12-X MPB 16    | FP MPT.12-X MPF 16    | Plug + adapter with clampless hose tail Ø 16mm   |             |        |
|            | 5 | FP MPT.12-X MFB 12    | FP MPT.12-X MFF 12    | Plug female thread BSP 1/2"                      | 20          |        |
|            |   | FP MPT.12-X MNB 12    | FP MPT.12-X MNF 12    | Plug female thread NPT 1/2"                      |             |        |

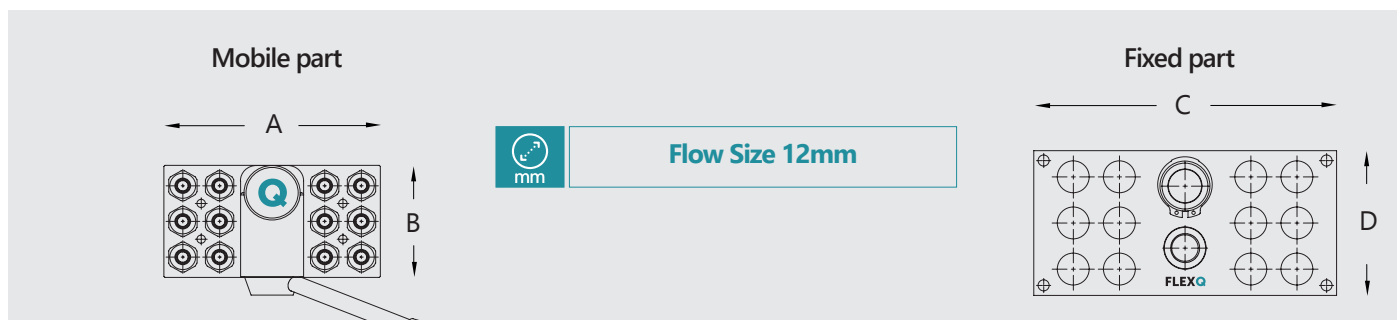
| Spare parts | N | Code            | Description                                               |
|-------------|---|-----------------|-----------------------------------------------------------|
|             | 1 | ELH 12/12-90    | Male BSP 1/2" - 90° elbow with standard hose tail Ø 12mm  |
|             |   | ELH 12/16-90    | Male BSP 1/2" - 90° elbow with standard hose tail Ø 16mm  |
|             | 2 | ELP 12/13-90    | Male BSP 1/2" - 90° elbow with clampless hose tail Ø 13mm |
|             |   | ELP 12/16-90    | Male BSP 1/2" - 90° elbow with clampless hose tail Ø 16mm |
|             | 3 | MHA 12/12       | Male BSP 1/2" adapter with standard hose tail Ø 12mm      |
|             |   | MHA 12/16       | Male BSP 1/2" adapter with standard hose tail Ø 16mm      |
|             | 4 | MPA 12/13       | Male BSP 1/2" adapter with clampless hose tail Ø 13mm     |
|             |   | MPA 12/16       | Male BSP 1/2" adapter with clampless hose tail Ø 16mm     |
|             | 5 | M MPT.12 MFB 12 | Plug female thread BSP 1/2" with valve                    |
|             |   | M MPT.12 MFF 12 | Plug female thread NPT 1/2" without valve                 |
|             | 6 | MFE 12/12-34    | Male female extension BSP 1/2"                            |
|             | 7 | FP MPT.12-X     | Fixed part not equipped                                   |

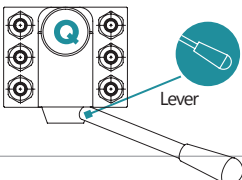
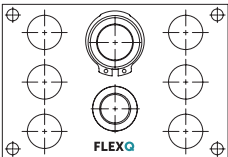
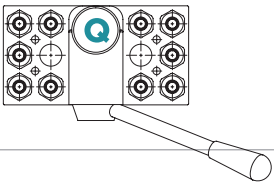
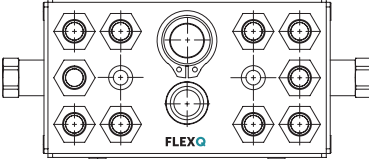
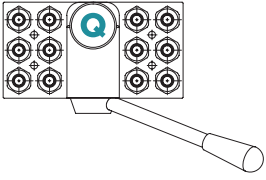
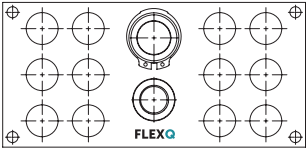
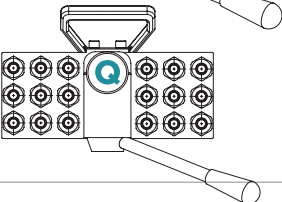
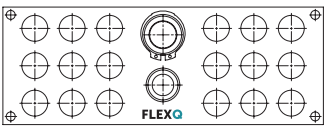
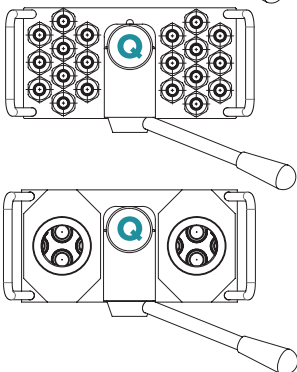
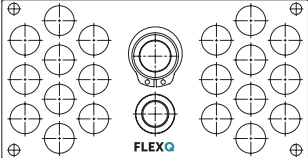


### Multicoupling Series MPT

#### Dimensions

 **12mm**



| Mobile part                                                                         | Fixed part                                                                          | A   | B   | C   | D   | n  | DN |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|----|----|
|   |   | 136 | 110 | 160 | 110 | 6  | 12 |
|  |  | 203 | 110 | 216 | 120 | 10 | 12 |
|  |  | 203 | 110 | 230 | 110 | 12 | 12 |
|  |  | 270 | 110 | 300 | 110 | 18 | 12 |
|  |  | 250 | 130 | 250 | 130 | 20 | 12 |

## Multicoupling Series MPT

Fixed part unequipped

| Item code   | Fixed plate | Description |
|-------------|-------------|-------------|
| FPMPT.12-06 |             |             |
| FPMPT.12-10 |             |             |
| FPMPT.12-12 |             |             |
| FPMPT.12-18 |             |             |
| FPMPT.12-20 |             |             |

### Multicoupling Series MPT

Mobile part Item Code

 **16mm**



### MP MPT 16 - C - X

**MP** Mobile part

**MPT** MPT profile

**16** Flow size

**C** Connections

**10** 5 Circuits

**12** 6 Circuits

**X** Socket insert



#### Socket with valve



**FHB 16** Standard hose type Ø 16mm

**FHB 19** Standard hose type Ø 19mm



**FPB 16** Clampless hose type Ø 16mm

**FPB 19** Clampless hose type Ø 19mm



**FFB 34** Female thread BSP 3/4"

#### Socket without valve



**FHF 16** Standard hose type Ø 16mm

**FHF 19** Standard hose type Ø 19mm



**FPF 16** Clampless hose type Ø 16mm

**FPF 19** Clampless hose type Ø 19mm



**FFF 34** Female thread BSP 3/4"

## Multicoupling Series MPT

### Fixed part Item Codes

**FP MPT 16 C - X**

Plug insert **X**

Connections **C**

|    |            |
|----|------------|
| 10 | 5 Circuits |
| 12 | 6 Circuits |

Flow size **16**

MPT profile **MPT**

Fixed part **FP**

#### Plug with valve



**MFB 34** Female thread BSP 3/4" at the alu block (Plug with valve)

#### Plug without valve

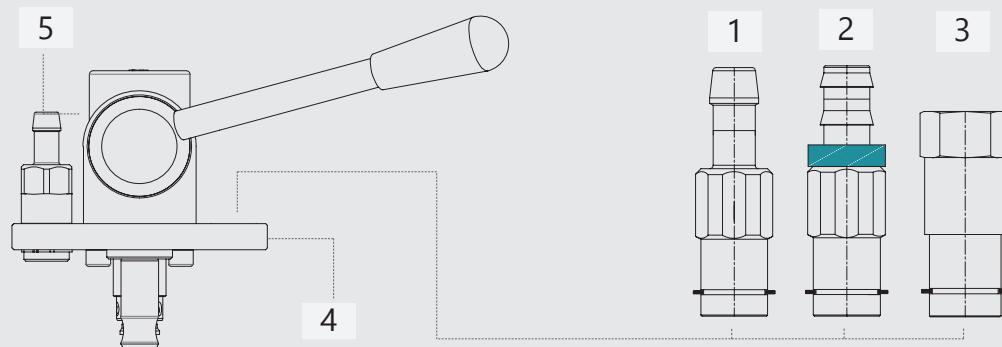


**MFF 34** Female thread BSP 3/4" at the alu block (Plug without valve)

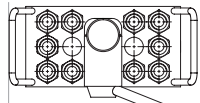
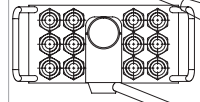
### Multicoupling Series MPT

#### Mobile part Item Equipment

 **16mm**



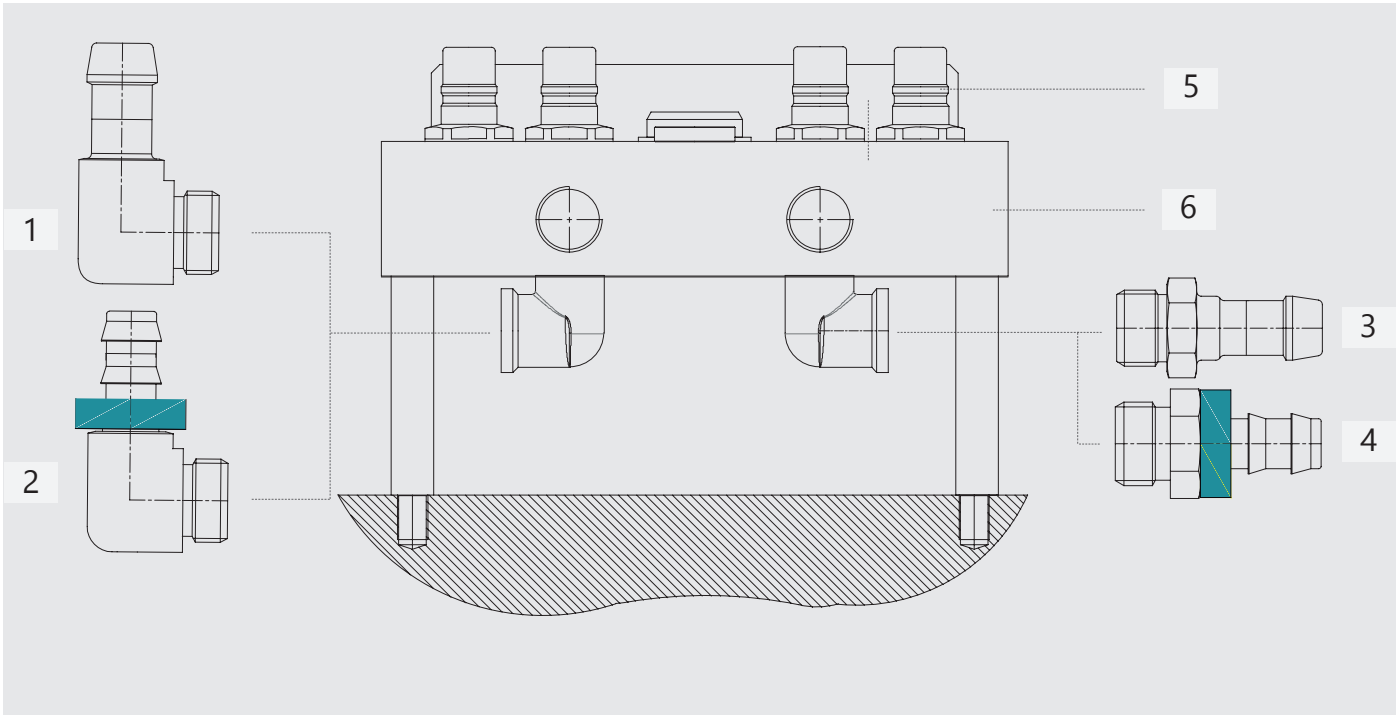
| Assemblies | N | With valve         | Without valve      | Description                |
|------------|---|--------------------|--------------------|----------------------------|
|            | 1 | MP MPT.16-X FHB 16 | MP MPT.16-X FHF 16 | Standard hose tail Ø 16mm  |
|            |   | MP MPT.16-X FHB 19 | MP MPT.16-X FHF 19 | Standard hose tail Ø 19mm  |
|            | 2 | MP MPT.16-X FPB 16 | MP MPT.16-X FPF 16 | Clampless hose tail Ø 16mm |
|            |   | MP MPT.16-X FPB 19 | MP MPT.16-X FPF 19 | Clampless hose tail Ø 19mm |
|            | 3 | MP MPT.16-X FFB 34 | MP MPT.16-X FFF 34 | Female thread BSP 3/4"     |
|            |   | MP MPT.16-X FNB 34 | MP MPT.16-X FNF 34 | Female thread NPT 3/4"     |

| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 10          |  |
| 12          |  |

| Spare parts | N | With valve      | Without valve                      | Description                            |
|-------------|---|-----------------|------------------------------------|----------------------------------------|
|             | 1 | M MPT.16 FHB 16 | M MPT.16 FHF 16                    | Socket with standard hose tail Ø 16mm  |
|             |   | M MPT.16 FHB 19 | M MPT.16 FHF 19                    | Socket with standard hose tail Ø 19mm  |
|             | 2 | M MPT.16 FPB 16 | M MPT.16 FPF 16                    | Socket with clampless hose tail Ø 16mm |
|             |   | M MPT.16 FPB 19 | M MPT.16 FPF 19                    | Socket with clampless hose tail Ø 19mm |
|             | 3 | M MPT.16 FFB 34 | M MPT.16 FFF 34                    | Socket with female thread BSP 3/4"     |
|             |   | M MPT.16 FNB 34 | M MPT.16 FNF 34                    | Socket with female thread NPT 3/4"     |
|             | N | Description     |                                    |                                        |
|             | 4 | MP MPT.16-12    | Mobile part only with locking unit |                                        |
|             | 5 | L-UNIT BG2      | Locking unit size 2                |                                        |

### Multicoupling Series MPT

#### Fixed part Item Equipment



| Assemblies | N | With valve            | Without valve         | Description                                            | Connections | Scheme |
|------------|---|-----------------------|-----------------------|--------------------------------------------------------|-------------|--------|
|            | 1 | FP MPT.16-X MHB 16-90 | FP MPT.16-X MHF 16-90 | Plug + 90° elbow with standard hose tail Ø 16mm        | 10          |        |
|            |   | FP MPT.16-X MHB 19-90 | FP MPT.16-X MHF 19-90 | Plug + 90° elbow with standard hose tail Ø 19mm        |             |        |
|            | 2 | FP MPT.16-X MPB 16-90 | FP MPT.16-X MPF 16-90 | Plug + 90° elbow with clampless hose tail Ø 16mm       | 12          |        |
|            |   | FP MPT.16-X MPB 19-90 | FP MPT.16-X MPF 19-90 | Plug + 90° elbow with clampless hose tail Ø 19mm       |             |        |
|            | 3 | FP MPT.16-X MHB 16    | FP MPT.16-X MHF 16    | Plug + adapter with standard hose tail Ø 16mm          |             |        |
|            |   | FP MPT.16-X MHB 19    | FP MPT.16-X MHF 19    | Plug + adapter with standard hose tail Ø 19mm          |             |        |
|            | 4 | FP MPT.16-X MPB 16    | FP MPT.16-X MPF 16    | Plug + adapter with clampless hose tail Ø 16mm         |             |        |
|            |   | FP MPT.16-X MPB 19    | FP MPT.16-X MPF 19    | Plug + adapter with clampless hose tail Ø 19mm         |             |        |
|            | 5 | FP MPT.16-X MFB 34    | FP MPT.16-X MFF 34    | Plug mounted in alublock - exit female thread BSP 3/4" |             |        |
|            |   | FP MPT.16-X MNB 34    | FP MPT.16-X MNF 34    | Plug mounted in alublock - exit female thread NPT 3/4" |             |        |

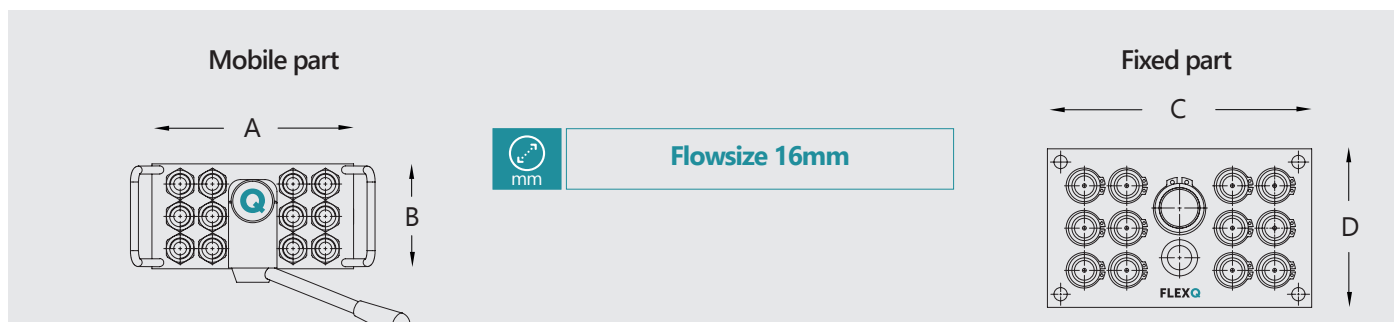
| Spare parts | N | Description                                                            |
|-------------|---|------------------------------------------------------------------------|
|             | 1 | ELH 34/16-90 Male BSP 3/4" - 90° elbow with standard hose tail Ø 16mm  |
|             |   | ELH 34/19-90 Male BSP 3/4" - 90° elbow with standard hose tail Ø 19mm  |
|             | 2 | ELP 34/16-90 Male BSP 3/4" - 90° elbow with clampless hose tail Ø 16mm |
|             |   | ELP 34/19-90 Male BSP 3/4" - 90° elbow with clampless hose tail Ø 19mm |
|             | 3 | MHA 34/16 Male BSP 3/4" adapter with standard hose tail Ø 16mm         |
|             |   | MHA 34/19 Male BSP 3/4" adapter with standard hose tail Ø 19mm         |
|             | 4 | MPA 34/16 Male BSP 3/4" adapter with clampless hose tail Ø 16mm        |
|             |   | MPA 34/19 Male BSP 3/4" adapter with clampless hose tail Ø 19mm        |
|             | 5 | MPT.16 MMB 10 Plug female thread BSP 1" with valve                     |
|             |   | MPT.16 MMF 10 Plug female thread NPT 1" without valve                  |
|             | 6 | FP MPT.16-12 BLK Fixed part not equipped                               |

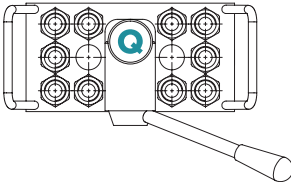
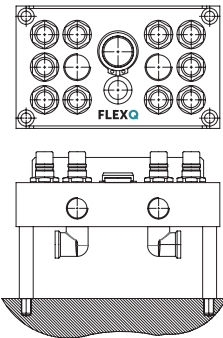
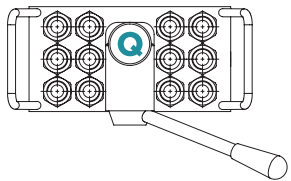
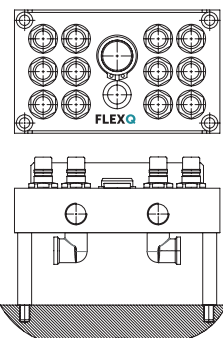
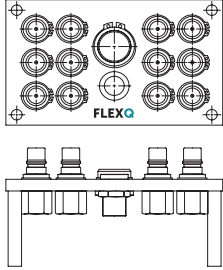


### Multicoupling Series MPT

#### Dimensions

 **16mm**

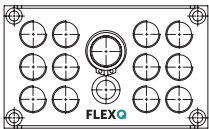
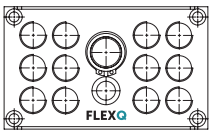
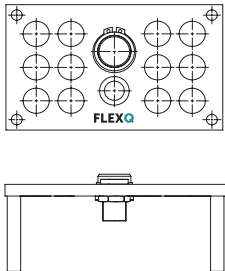


| Mobile part                                                                         | Fixed part                                                                          | A   | B   | C   | D   | n  | DN |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|----|----|
|   |   | 250 | 130 | 250 | 150 | 10 | 16 |
|  |  | 250 | 130 | 250 | 150 | 12 | 16 |
|                                                                                     |  | 250 | 130 | 250 | 150 | 12 | 16 |

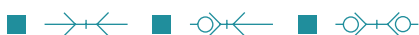
## Multicoupling Series MPT

Fixed part unequipped



| Item code             | Fixed plate                                                                         | Description                                                                                      |
|-----------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| FPMPT.16-12-BLK/AL    |   | Unequipped aluminum plate<br>Outlet holes 3/4" BSP<br>Nipple holes 1" BSP                        |
| FPMPT.16-12-BLK/ST/CN |  | Unequipped steel plate<br>chemical nickel plated<br>Outlet holes 3/4" BSP<br>Nipple holes 1" BSP |
| FPMPT.16-12           |  |                                                                                                  |

## SERIE MXT



### MXT



#### Flow Size

MXT 09 - 9 mm



#### Number of Connections/

MXT 09 - 6-20



#### Pressure

16 bar



#### Temperature range

-5°C +160°C FPM (V)  
-5°C +200°C FPM (V)

Water  
Heating Oil

## SPECIFICATIONS

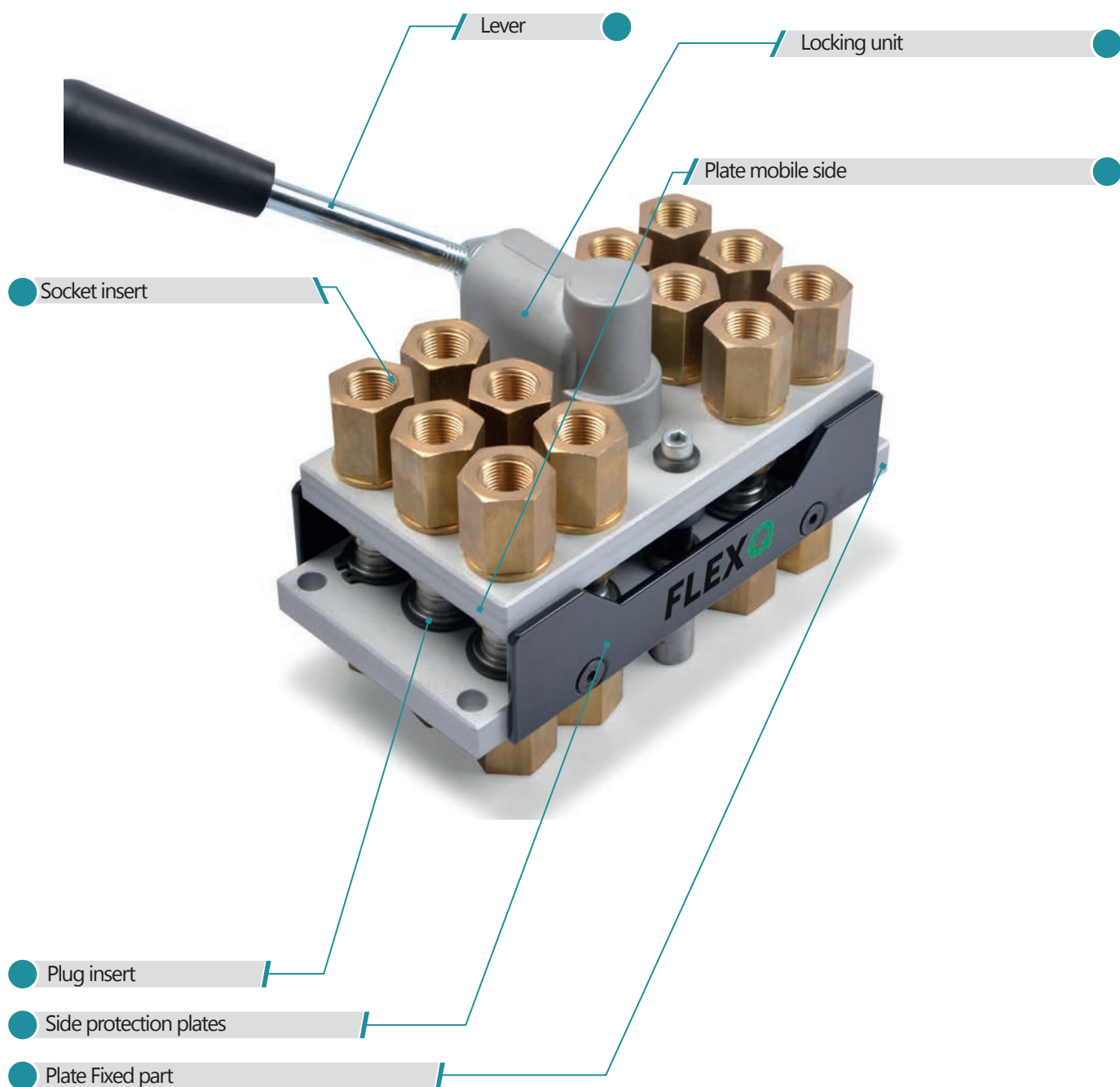
Tool set-up optimization through central locking  
Avoidance of mistakes through fixed position hoses on the plates  
Many connection options

## OPTIONS

Colour coding of the plates  
Stainless Steel option for plates, connectors and locking unit  
High temperature option for connectors  
Safety locking unit

## APPLICATIONS

Thermo regulation  
Injection moulding  
Die casting  
Test benches



## Multicoupling Series MXT

Mobile part Item Codes



9mm



MP MXT 09 - C - X



**MP** Mobile part

**MTX** MXT profile

**09** Flow size

**C** Connections

**6** 3 Circuits

**10** 6 Circuits

**20** 10 Circuits

**X** Socket insert / Kupplung-

### Socket with valve



**FHB 10** Standard hose type Ø 10mm

**FHB 12** Standard hose type Ø 12mm



**FPB 10** Clampless hose type Ø 10mm

**FPB 13** Clampless hose type Ø 13mm



**FFB 38** Female thread BSP 3/8"

### Socket without valve



**FHF 10** Standard hose type Ø 10mm

**FHF 12** Standard hose type Ø 12mm



**FPF 10** Clampless hose type Ø 10mm

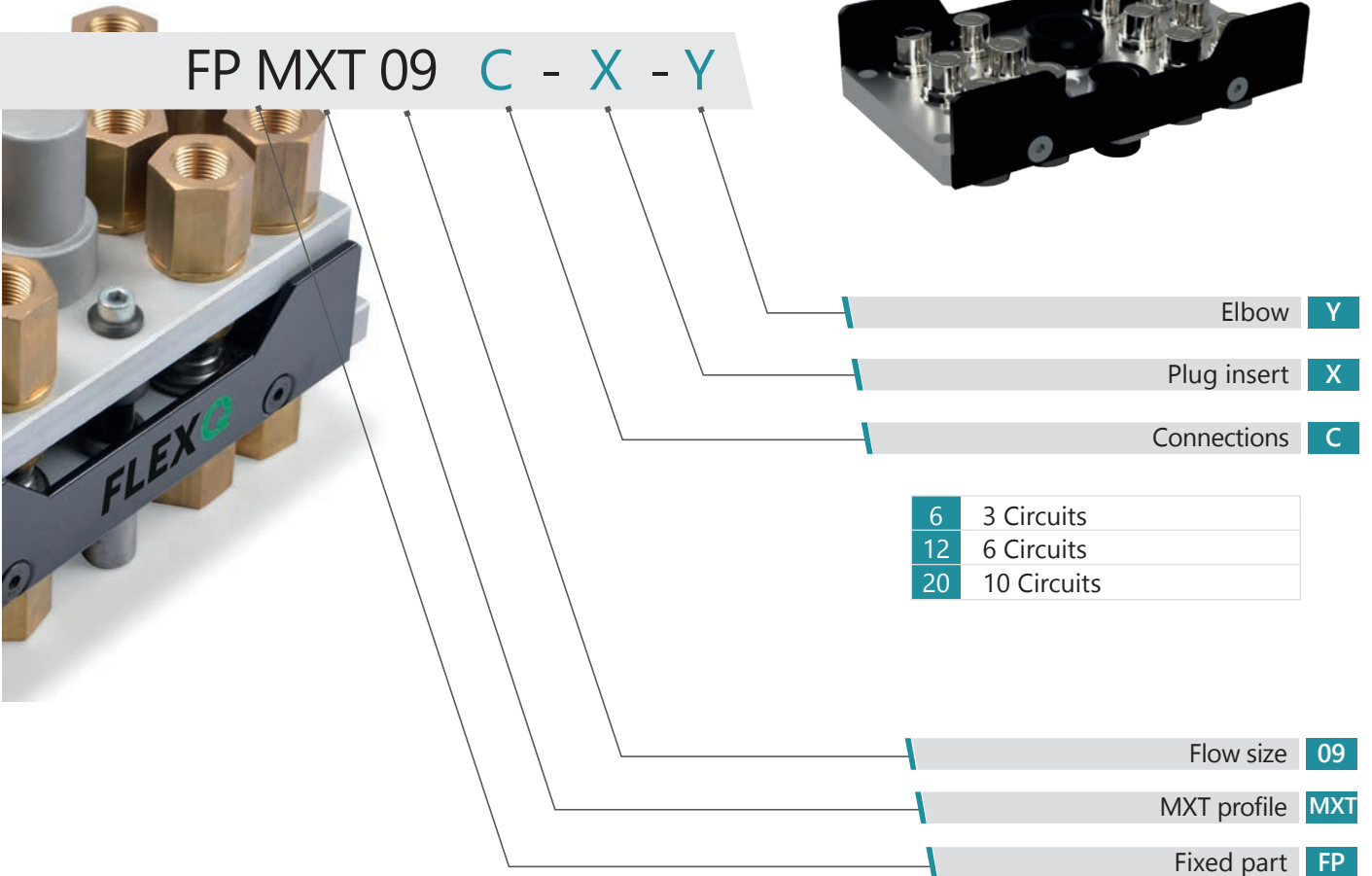
**FPF 13** Clampless hose type Ø 13mm



**FFF 38** Female thread BSP 3/8"

## Multicoupling Series MXT

Fixed part Item Codes



**FP MXT 09 C - X - Y**

- Y**: Elbow
- X**: Plug insert
- C**: Connections
 

|    |             |
|----|-------------|
| 6  | 3 Circuits  |
| 12 | 6 Circuits  |
| 20 | 10 Circuits |
- 09**: Flow size
- MXT**: MXT profile
- FP**: Fixed part

### Plug with valve



**MHB 10** Standard hose type Ø 10mm  
**MHB 12** Standard hose type Ø 12mm



**MPB 10** Clampless hose type Ø 10mm  
**MPB 13** Clampless hose type Ø 13mm



**MFB 38** Female thread BSP 3/8"

### Plug without valve



**MHF 10** Standard hose type Ø 10mm  
**MHF 12** Standard hose type Ø 12mm



**MPF 10** Clampless hose type Ø 10mm  
**MPF 13** Clampless hose type Ø 13mm

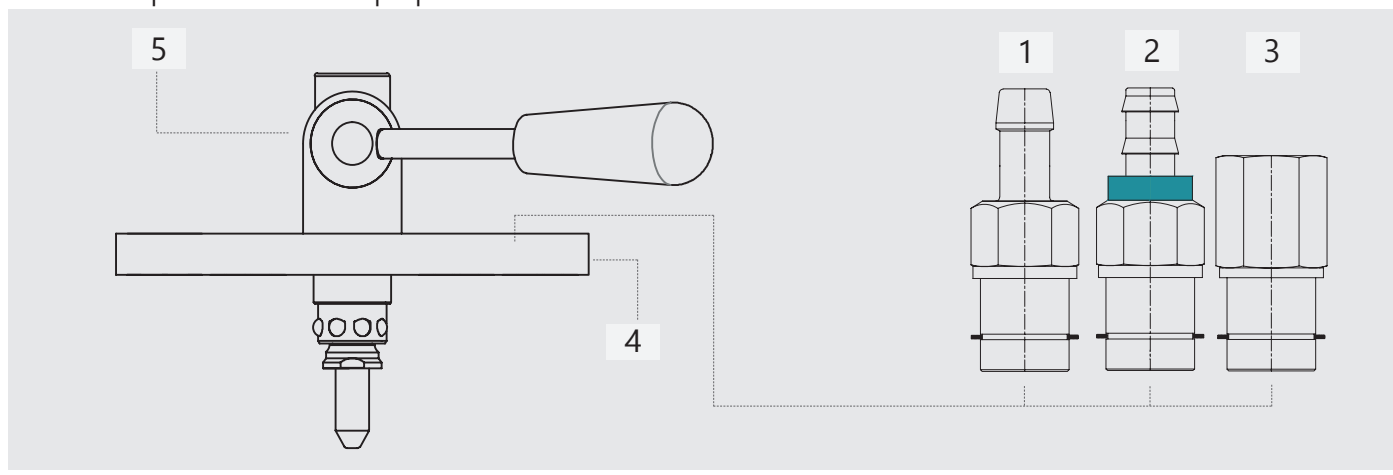


**MFF 38** Female thread BSP 3/8"

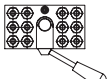
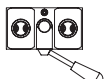
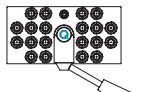
### Multicoupling Series MXT

#### Mobile part Item Equipment

 **9mm**



| Assemblies | N | With valve         | Without valve      | Description                |
|------------|---|--------------------|--------------------|----------------------------|
|            | 1 | MP MXT.09-X FHB 10 | MP MXT.09-X FHF 10 | Standard hose tail Ø 10mm  |
|            |   | MP MXT.09-X FHB 12 | MP MXT.09-X FHF 12 | Standard hose tail Ø 12mm  |
|            | 2 | MP MXT.09-X FPB 10 | MP MXT.09-X FPF 10 | Clampless hose tail Ø 10mm |
|            |   | MP MXT.09-X FPB 13 | MP MXT.09-X FPF 13 | Clampless hose tail Ø 13mm |
|            | 3 | MP MXT.09-X FFB 38 | MP MXT.09-X FFF 38 | Female thread BSP 3/8"     |
|            |   | MP MXT.09-X FNB 38 | MP MXT.09-X FNF 38 | Female thread NPT 3/8"     |

| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 6           |  |
| 12          |  |
| 12C         |  |
| 20          |  |

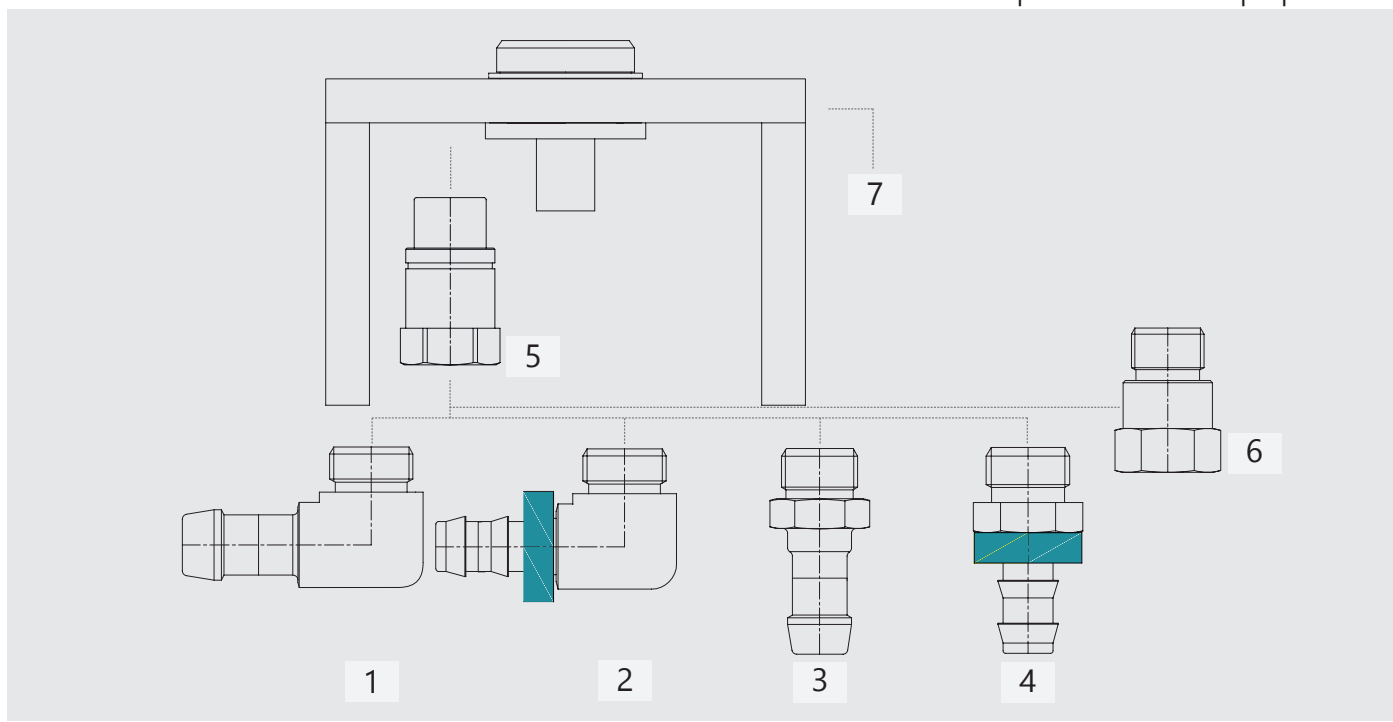
| Spare parts | N | With valve      | Without valve   | Description                            |
|-------------|---|-----------------|-----------------|----------------------------------------|
|             | 1 | M MXT.09 FHB 10 | M MXT.09 FHF 10 | Socket with standard hose tail Ø 10mm  |
|             |   | M MXT.09 FHB 12 | M MXT.09 FHF 12 | Socket with standard hose tail Ø 12mm  |
|             | 2 | M MXT.09 FPB 10 | M MXT.09 FPF 10 | Socket with clampless hose tail Ø 10mm |
|             |   | M MXT.09 FPB 13 | M MXT.09 FPF 13 | Socket with clampless hose tail Ø 13mm |
|             | 3 | M MXT.09 FFB 38 | M MXT.09 FFF 38 | Socket with female thread BSP 3/8"     |
|             |   | M MXT.09 FNB 38 | M MXT.09 FNF 38 | Socket with female thread NPT 3/8"     |

| N | Code        | Description                        |
|---|-------------|------------------------------------|
| 4 | MP MXT.09-X | Mobile part only with locking unit |
| 5 | L-UNIT BG1  | Locking unit size 1                |

## Multicoupling Series MXT

### Fixed part Item Equipment



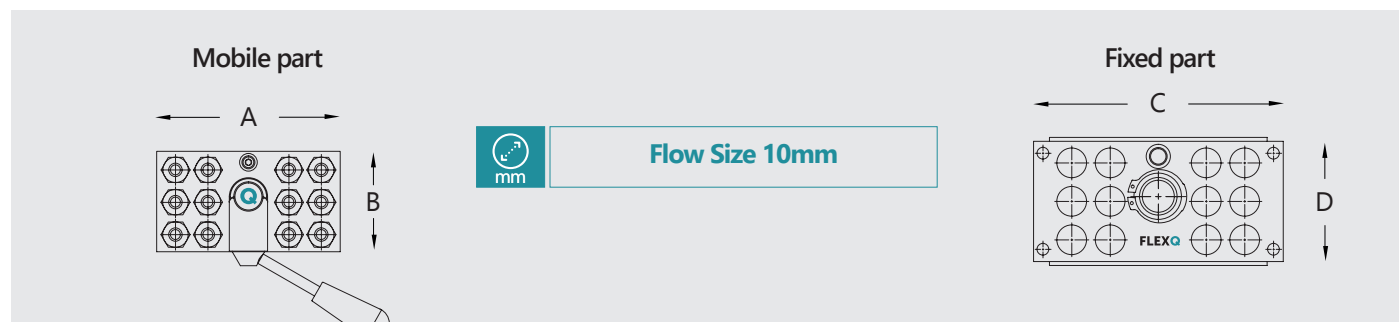
| Assemblies | N | With valve            | Without valve         | Description                                      | Connections | Scheme |
|------------|---|-----------------------|-----------------------|--------------------------------------------------|-------------|--------|
|            | 1 | FP MXT.09-X MHB 10-90 | FP MXT.09-X MHF 10-90 | Plug + 90° elbow with standard hose tail Ø 10mm  | 6           |        |
|            |   | FP MXT.09-X MHB 12-90 | FP MXT.09-X MHF 12-90 | Plug + 90° elbow with standard hose tail Ø 12mm  |             |        |
|            | 2 | FP MXT.09-X MPB 10-90 | FP MXT.09-X MPF 10-90 | Plug + 90° elbow with clampless hose tail Ø 10mm | 12          |        |
|            |   | FP MXT.09-X MPB 13-90 | FP MXT.09-X MPF 13-90 | Plug + 90° elbow with clampless hose tail Ø 13mm |             |        |
|            | 3 | FP MXT.09-X MHB 10    | FP MXT.09-X MHF 10    | Plug + adapter with standard hose tail Ø 10mm    | 20          |        |
|            |   | FP MXT.09-X MHB 12    | FP MXT.09-X MHF 12    | Plug + adapter with standard hose tail Ø 12mm    |             |        |
|            | 4 | FP MXT.09-X MPB 10    | FP MXT.09-X MPF 10    | Plug + adapter with clampless hose tail Ø 10mm   |             |        |
|            |   | FP MXT.09-X MPB 13    | FP MXT.09-X MPF 13    | Plug + adapter with clampless hose tail Ø 13mm   |             |        |
|            | 5 | FP MXT.09-X MFB 38    | FP MXT.09-X MFF 38    | Plug female thread BSP 3/8"                      |             |        |
|            |   | FP MXT.09-X MNB 38    | FP MXT.09-X MNF 38    | Plug female thread NPT 3/8"                      |             |        |

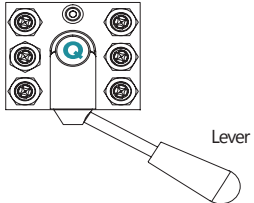
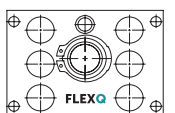
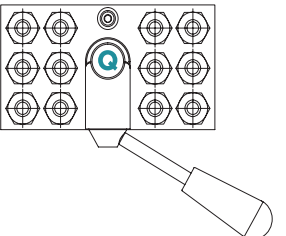
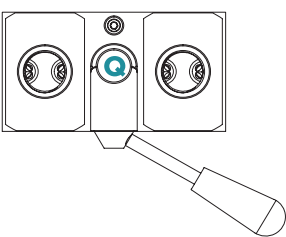
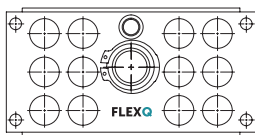
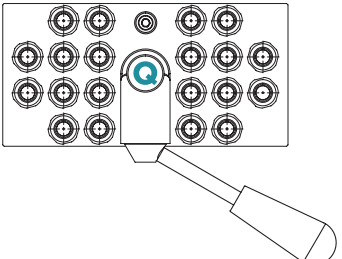
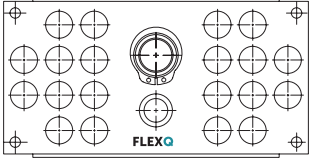
| Spare parts | Code |                 | Description                                               |
|-------------|------|-----------------|-----------------------------------------------------------|
|             | 1    | ELH 38/10-90    | Male BSP 3/8" - 90° elbow with standard hose tail Ø 10mm  |
|             |      | ELH 38/12-90    | Male BSP 3/8" - 90° elbow with standard hose tail Ø 12mm  |
|             | 2    | ELP 38/10-90    | Male BSP 3/8" - 90° elbow with clampless hose tail Ø 10mm |
|             |      | ELP 38/13-90    | Male BSP 3/8" - 90° elbow with clampless hose tail Ø 13mm |
|             | 3    | MHA 38/10       | Male BSP 3/8" adapter with standard hose tail Ø 10mm      |
|             |      | MHA 38/12       | Male BSP 3/8" adapter with standard hose tail Ø 12mm      |
|             | 4    | MPA 38/10       | Male BSP 3/8" adapter with clampless hose tail Ø 10mm     |
|             |      | MPA 38/13       | Male BSP 3/8" adapter with clampless hose tail Ø 13mm     |
|             | 5    | M MXT.09 MFB 38 | Plug female thread BSP 3/8" with valve                    |
|             |      | M MXT.09 MFF 38 | Plug female thread NPT 3/8" without valve                 |
|             | 6    | MFE 38/38-20    | Male female extension BSP 3/8"                            |
|             | 7    | FP MXT.09-X     | Fixed part not equipped                                   |

### Multicoupling Series MXT

#### Dimensions

 **9mm**

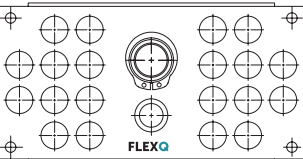


| Mobile part                                                                                                                                                                | Fixed part                                                                          | A   | B     | C   | D     | n  | DN |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-------|-----|-------|----|----|
|                                                                                          |    | 105 | 96    | 135 | 99    | 6  | 9  |
| <br> |  | 190 | 95    | 190 | 105   | 12 | 9  |
|                                                                                         |  | 230 | 126.5 | 230 | 136.5 | 20 | 9  |

## Multicoupling Series MXT

Fixed part unequipped



| Item code   | Fixed plate                                                                         | A   | B   | Description | n   | DN |
|-------------|-------------------------------------------------------------------------------------|-----|-----|-------------|-----|----|
| FPMXT.09-06 |   |     |     |             |     |    |
| FPMXT.09-12 |  | 170 | 104 | 172         | 94  | 10 |
| FPMXT.09-20 |  | 230 | 129 | 230         | 130 | 16 |
|             |                                                                                     | 260 | 129 | 260         | 130 | 20 |
|             |                                                                                     | 265 | 129 | 285         | 230 | 24 |

### SERIE RPT



# FLEXQ

## CONNECTORS

### RPT



Flow Size

RPT 10 - 10 mm  
RPT 12 - 12 mm



Number of Connections

RPT 10 - 6-24  
RPT 12 - 6-18



Pressure

16 bar



Temperature range

-5°C +160°C FPM (V)    Water  
-5°C +200°C FPM (V)    Heating Oil

### SPECIFICATIONS

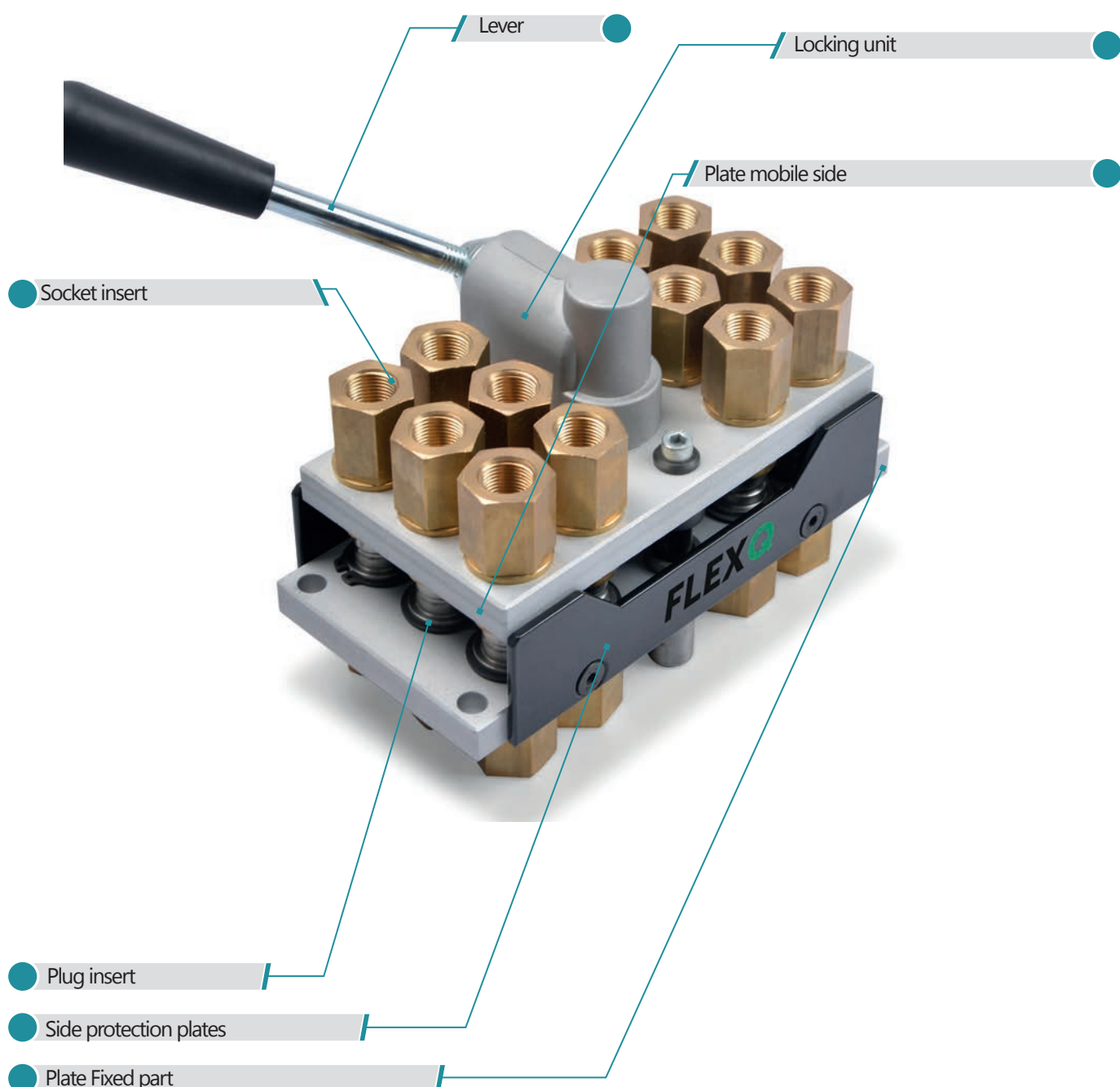
Tool set-up optimization through central locking  
Avoidance of mistakes through fixed position hoses on the plates  
Many connection options  
The connectors are compatible with the monocouplings of the series (RPT)  
series (RPT)

### OPTIONS

Colour coding of the plates  
Stainless Steel option for plates, connectors and locking unit  
High temperature option for connectors  
Safety locking unit

### APPLICATIONS

Thermo regulation  
Injection moulding  
Die casting  
Test benches



## Multicoupling Series RPT

Mobile part Item Codes

 **10mm**



**MP RPT 10 - C - X**

**MP** Mobile part / Maschinenseite

**RPT** RPT profile / RPT Profil

**10** Flow size / Nennweite

**C** Connections / Anschlüsse

|           |              |
|-----------|--------------|
| <b>6</b>  | 3 Circuits   |
| <b>10</b> | 5 Circuits   |
| <b>12</b> | 6 Circuits   |
| <b>16</b> | 8 Circuits   |
| <b>20</b> | 10 Circuits  |
| <b>24</b> | 12 Circuitse |

**X** Socket insert / Kupplung-



### Socket with valve / Kupplungseinsatz mit Ventil



**FHB 10** Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm

**FHB 12** Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



**FPB 10** Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm

**FPB 13** Clampless hose type Ø 13mm / Schnellstecktülle Ø 13mm



**FFB 38** Female thread BSP 3/8" / Innengewinde BSP 3/8"

### Socket without valve / Kupplungseinsatz ohne Ventil



**FHF 10** Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm

**FHF 12** Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



**FPF 10** Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm

**FPF 13** Clampless hose type Ø 13mm / Schnellstecktülle Ø 13mm



**FFF 38** Female thread BSP 3/8" / Innengewinde BSP 3/8"

## Multicoupling Series RPT

Fixed part Item Codes

**FP RPT 10 C - X - Y**

|                              |     |
|------------------------------|-----|
| Elbow / Winkel               | Y   |
| Plug insert / Nippelinsert   | X   |
| Connections / Anschlüsse     | C   |
| Flow size / Nennweite        | 10  |
| RPT profile / RPT-Profile    | RPT |
| Fixed part / Werkzeuggestalt | 175 |

|    |             |
|----|-------------|
| 6  | 3 Circuits  |
| 10 | 5 Circuits  |
| 12 | 6 Circuits  |
| 16 | 8 Circuits  |
| 20 | 10 Circuits |
| 24 | 12 Circuits |

### Plug with valve / Nippelinsert mit Ventil



**MHB 10** Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm  
**MHB 12** Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



**MPB 10** Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm  
**MPB 13** Clampless hose type Ø 13mm / Schnellstecktülle Ø 13mm



**MFB 38** Female thread BSP 3/8" / Innengewinde BSP 3/8"

### Plug without valve / Nippelinsert ohne Ventil



**MHF 10** Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm  
**MHF 12** Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



**MPF 10** Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm  
**MPF 13** Clampless hose type Ø 13mm / Schnellstecktülle Ø 13mm

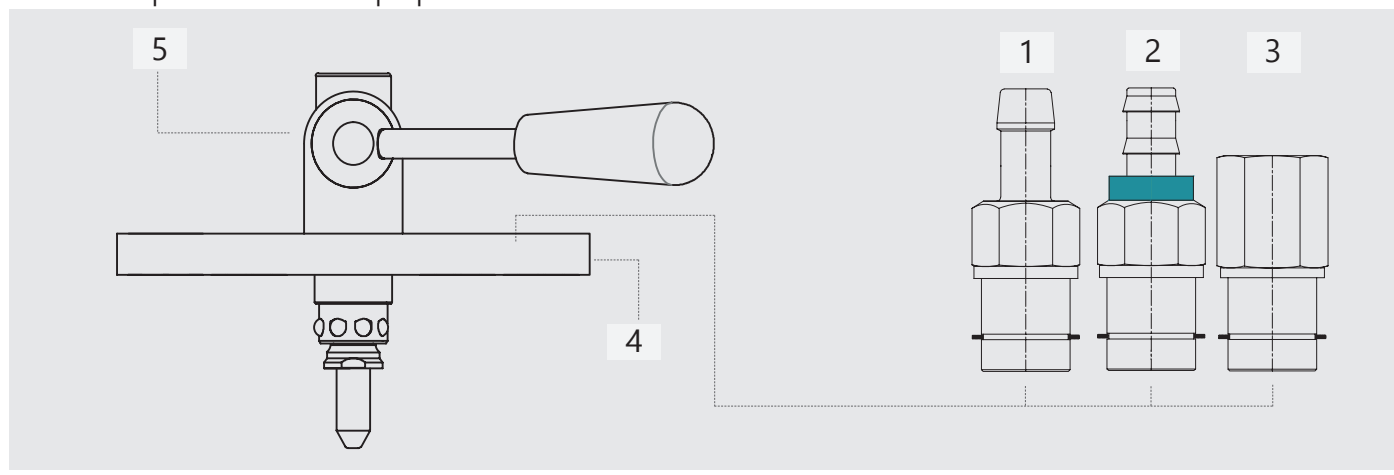


**MFF 38** Female thread BSP 3/8" / Innengewinde BSP 3/8"

### Multicoupling Series RPT

#### Mobile part Item Equipment

 **10mm**



| Assemblies | N | With valve         | Without valve      | Description                |
|------------|---|--------------------|--------------------|----------------------------|
|            | 1 | MP RPT.10-X FHB 10 | MP RPT.10-X FHF 10 | Standard hose tail Ø 10mm  |
|            |   | MP RPT.10-X FHB 12 | MP RPT.10-X FHF 12 | Standard hose tail Ø 12mm  |
|            | 2 | MP RPT.10-X FPB 10 | MP RPT.10-X FPF 10 | Clampless hose tail Ø 10mm |
|            |   | MP RPT.10-X FPB 13 | MP RPT.10-X FPF 13 | Clampless hose tail Ø 13mm |
|            | 3 | MP RPT.10-X FFB 38 | MP RPT.10-X FFF 38 | Female thread BSP 3/8"     |
|            |   | MP RPT.10-X FNB 38 | MP RPT.10-X FNF 38 | Female thread NPT 3/8"     |

| Connections | Scheme                                                                                |
|-------------|---------------------------------------------------------------------------------------|
| 6           |  |
| 10          |  |
| 12          |  |
| 12C         |  |
| 16          |  |
| 20          |  |
| 24          |  |

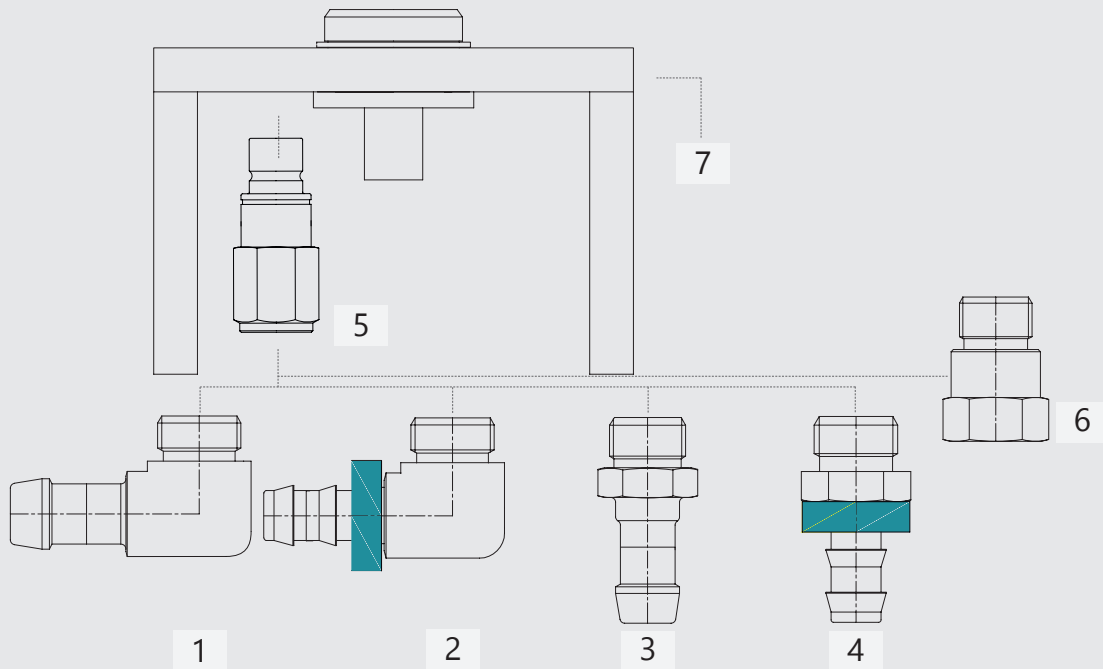
| Spare parts | N | With valve      | Without valve   | Description                            |
|-------------|---|-----------------|-----------------|----------------------------------------|
|             | 1 | M RPT.10 FHB 10 | M RPT.10 FHF 10 | Socket with standard hose tail Ø 10mm  |
|             |   | M RPT.10 FHB 12 | M RPT.10 FHF 12 | Socket with standard hose tail Ø 12mm  |
|             | 2 | M RPT.10 FPB 10 | M RPT.10 FPF 10 | Socket with clampless hose tail Ø 10mm |
|             |   | M RPT.10 FPB 13 | M RPT.10 FPF 13 | Socket with clampless hose tail Ø 13mm |
|             | 3 | M RPT.10 FFB 38 | M RPT.10 FFF 38 | Socket with female thread BSP 3/8"     |
|             |   | M RPT.10 FNB 38 | M RPT.10 FNF 38 | Socket with female thread NPT 3/8"     |

| N | Code        | Description                                |
|---|-------------|--------------------------------------------|
| 4 | MP RPT.10-X | Mobile part only with locking unit         |
| 5 | L-UNIT BG3  | Locking unit size 3 (Connections 6/10/12)  |
|   | L-UNIT BG4  | Locking unit size 4 (Connections 16/20/24) |

### Multicoupling Series RPT

Fixed part Item Equipment



| Assemblies | N | With valve            | Without valve         | Description                                      | Connections | Scheme |
|------------|---|-----------------------|-----------------------|--------------------------------------------------|-------------|--------|
|            | 1 | FP RPT.10-X MHB 10-90 | FP RPT.10-X MHF 10-90 | Plug + 90° elbow with standard hose tail Ø 10mm  | 6           |        |
|            |   | FP RPT.10-X MHB 12-90 | FP RPT.10-X MHF 12-90 | Plug + 90° elbow with standard hose tail Ø 12mm  |             |        |
|            | 2 | FP RPT.10-X MPB 10-90 | FP RPT.10-X MPF 10-90 | Plug + 90° elbow with clampless hose tail Ø 10mm | 10          |        |
|            |   | FP RPT.10-X MPB 13-90 | FP RPT.10-X MPF 13-90 | Plug + 90° elbow with clampless hose tail Ø 13mm |             |        |
|            | 3 | FP RPT.10-X MHB 10    | FP RPT.10-X MHF 10    | Plug + adapter with standard hose tail Ø 10mm    | 12          |        |
|            |   | FP RPT.10-X MHB 12    | FP RPT.10-X MHF 12    | Plug + adapter with standard hose tail Ø 12mm    |             |        |
|            | 4 | FP RPT.10-X MPB 10    | FP RPT.10-X MPF 10    | Plug + adapter with clampless hose tail Ø 10mm   | 16          |        |
|            |   | FP RPT.10-X MPB 13    | FP RPT.10-X MPF 13    | Plug + adapter with clampless hose tail Ø 13mm   |             |        |
|            | 5 | FP RPT.10-X MFB 38    | FP RPT.10-X MFF 38    | Plug female thread BSP 3/8"                      | 20          |        |
|            |   | FP RPT.10-X MNB 38    | FP RPT.10-X MNF 38    | Plug female thread NPT 3/8"                      |             |        |
|            |   |                       |                       |                                                  | 24          |        |

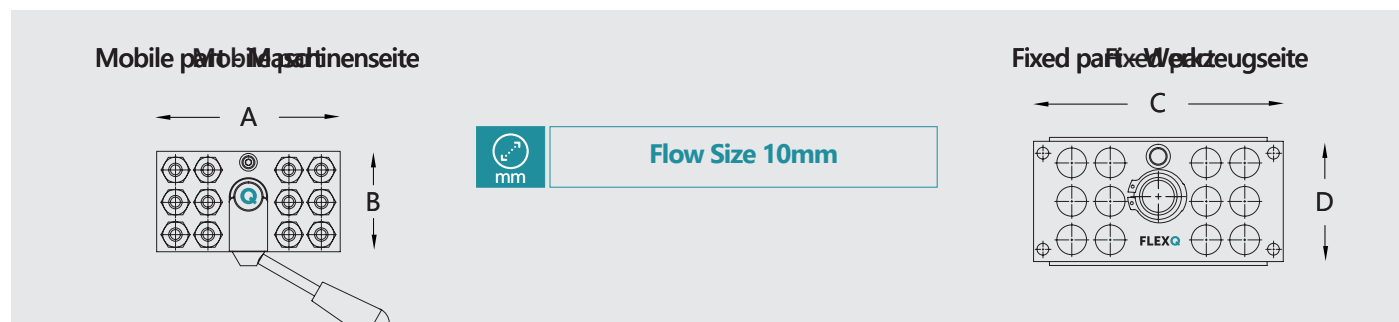
| Spare parts | Code | Description                                                            |
|-------------|------|------------------------------------------------------------------------|
|             | 1    | ELH 38/10-90 Male BSP 3/8" - 90° elbow with standard hose tail Ø 10mm  |
|             |      | ELH 38/12-90 Male BSP 3/8" - 90° elbow with standard hose tail Ø 12mm  |
|             | 2    | ELP 38/10-90 Male BSP 3/8" - 90° elbow with clampless hose tail Ø 10mm |
|             |      | ELP 38/13-90 Male BSP 3/8" - 90° elbow with clampless hose tail Ø 13mm |
|             | 3    | MHA 38/10 Male BSP 3/8" adapter with standard hose tail Ø 10mm         |
|             |      | MHA 38/12 Male BSP 3/8" adapter with standard hose tail Ø 12mm         |
|             | 4    | MPA 38/10 Male BSP 3/8" adapter with clampless hose tail Ø 10mm        |
|             |      | MPA 38/13 Male BSP 3/8" adapter with clampless hose tail Ø 13mm        |
|             | 5    | M RPT.10 MFB 38 Plug female thread BSP 3/8" with valve                 |
|             |      | M RPT.10 MFF 38 Plug female thread NPT 3/8" without valve              |
|             | 6    | MFE 38/38-20 Male female extension BSP 3/8"                            |
|             | 7    | FP RPT.10-X Fixed part not equipped                                    |

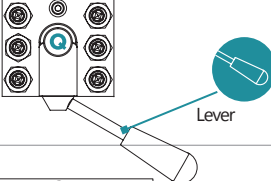
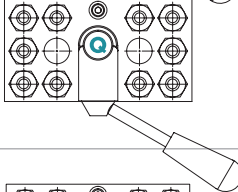
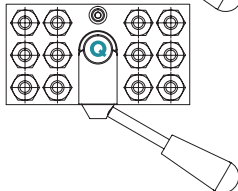
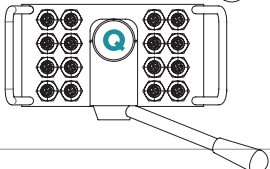
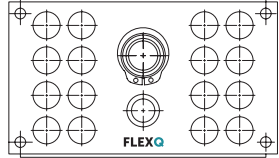
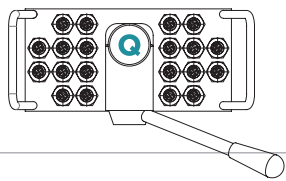
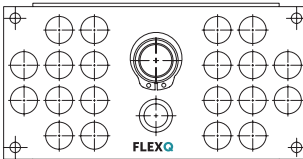
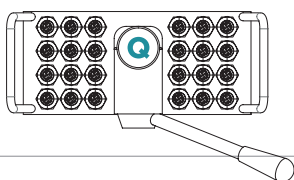
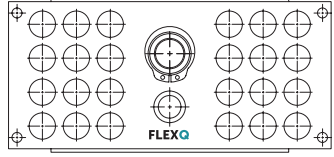


## Multicoupling Series RPT

### Dimensions

 **10mm**

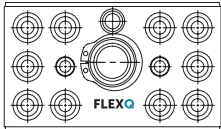
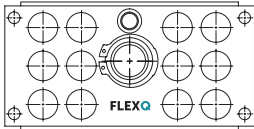
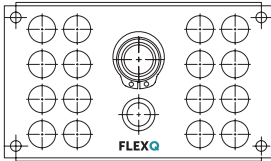
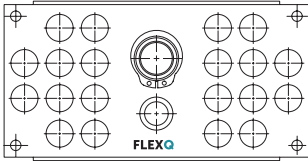


| Mobile part                                                                         | Fixed part                                                                          | A   | B   | C   | D   | n  | DN |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|----|----|
|   |    | 105 | 93  | 132 | 95  | 6  | 10 |
|  |  | 170 | 104 | 172 | 94  | 10 | 10 |
|  |  | 170 | 104 | 195 | 94  | 12 | 10 |
|  |  | 230 | 129 | 230 | 130 | 16 | 10 |
|  |  | 260 | 129 | 260 | 130 | 20 | 10 |
|  |  | 265 | 129 | 285 | 230 | 24 | 10 |

## Multicoupling Series RPT

Fixed part unequipped



| Item code   | Fixed plate                                                                         | Description |
|-------------|-------------------------------------------------------------------------------------|-------------|
| FPRPT.10-06 |    |             |
| FPRPT.10-10 |  |             |
| FPRPT.10-12 |  |             |
| FPRPT.10-16 |  |             |
| FPRPT.10-20 |  |             |
| FPRPT.10-24 |  |             |

**FLEXQ**  
CONNECTORS

Collectors  
for fluids and pneumatics



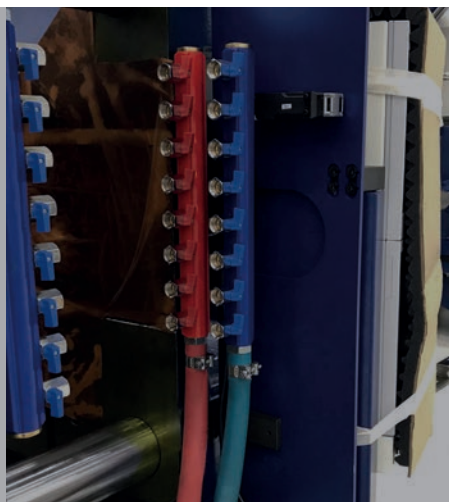
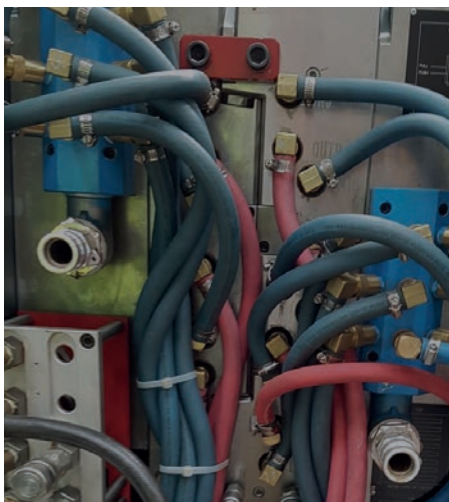
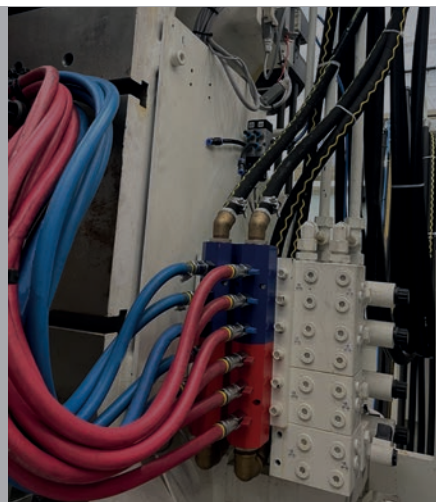
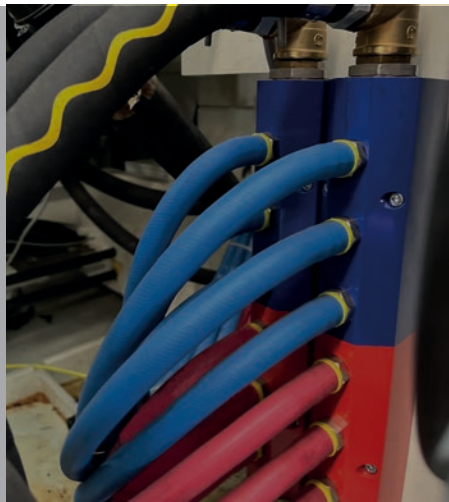
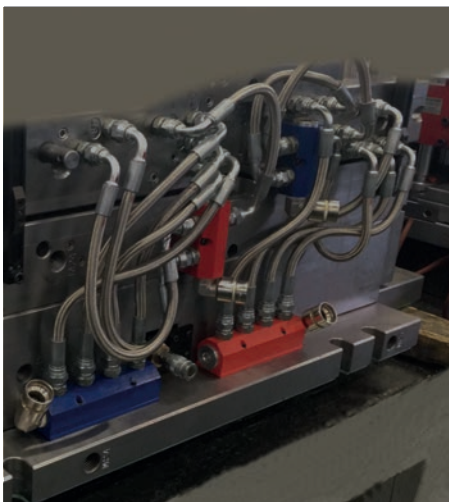
Collectors



**LINKING PRECISION WITH PERFORMANCE**

# Examples

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## SERIE AV

STANDARD CITO

# FLEXQ

CONNECTORS



### AV



Inlet

3/4"  
1"  
1 1/4"  
1 1/2"  
2"



Number of outlets

2 - 8



Pressure

0 - 30 bar



Temperature range

-20°C +200°C

Includes end caps, mounting screws are not included

The anodized aluminum is not suitable for corrosive liquids (high chlorine content)

### OPTIONS

Colours and design according to customer requirements  
Anodized

### APPLICATIONS

Injection moulding  
Die casting



With separator divided in the middle

Option R/B

### ITEM CODE

AV T1 I - T2 O - S - N - C

**AV** Aluminium Collector

**T1** Thread type inlet

**I** Thread Inlet

**T2** Thread type outlet

**O** Thread outlet

**S** Scheme

**N** Number exits

**C** Colour

### Thread type

| T1/ T2 | Thread type |
|--------|-------------|
| G      | BSP         |
| N      | NPT         |

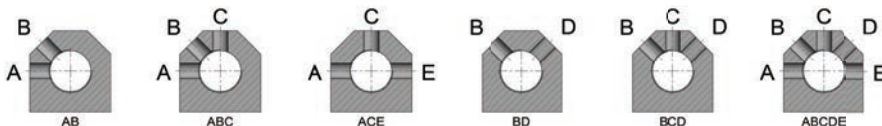
### Inlet

| I   | Thread size |
|-----|-------------|
| 34  | 3/4"        |
| 10  | 1"          |
| 114 | 1 1/4"      |
| 112 | 1 1/2"      |
| 20  | 2"          |

### Outlets

| O  | Thread size |
|----|-------------|
| 14 | 1/4"        |
| 38 | 3/8"        |
| 12 | 1/2"        |
| 34 | 3/4"        |

### Scheme



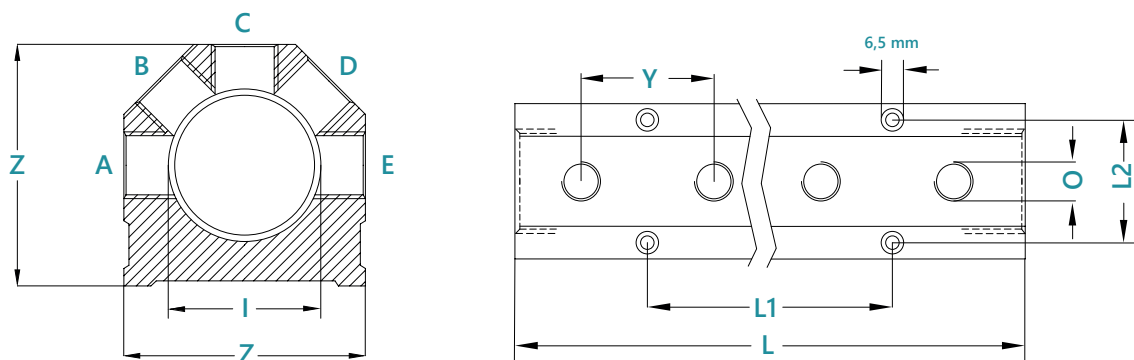
### Colour

| C   | Colour   |
|-----|----------|
| R   | Red      |
| B   | Blue     |
| R/B | Red-Blue |
| N   | Anodized |

### EXAMPLE CODE

AV G10-G14-BCD-6 -R

### DIMENSIONS



| I<br>Inlet | O<br>Outlet                 | N<br>Outlets on one side | L<br>Length              | L1<br>Distance between<br>mounting holes | L2<br>Distance between<br>mounting holes | Y<br>Distance between exits | Z<br>Height |
|------------|-----------------------------|--------------------------|--------------------------|------------------------------------------|------------------------------------------|-----------------------------|-------------|
| 3/4"       | 1/4"<br>3/8"<br>A AC ACE BD | 2<br>4<br>6<br>8         | 70<br>120<br>172<br>222  | 0<br>50,8<br>101,6<br>152,4              | 35                                       | 25,4                        | 44,5        |
| 1"         | 1/4"<br>3/8"<br>A AC ACE BD | 2<br>4<br>6<br>8         | 95<br>159<br>222<br>286  | 0<br>63,5<br>127<br>190,5                | 38,1                                     | 31,75                       | 50,8        |
| 1 1/4"     | 1/4"<br>3/8"<br>1/2"        | 2<br>4<br>6<br>8         | 152<br>254<br>355<br>457 | 0<br>101,6<br>203,2<br>304,8             | 47,6                                     | 50,8                        | 63,5        |
| 1 1/2"     | 1/4"<br>3/8"<br>1/2"        | 2<br>4<br>6<br>8         | 152<br>254<br>355<br>457 | 0<br>101,6<br>203,2<br>304,8             | 57,2                                     | 50,8                        | 76,2        |
| 2"         | 3/8"<br>1/2"<br>3/4"        | 2<br>4<br>6<br>8         | 203<br>305<br>432<br>559 | 0<br>127<br>254<br>381                   | 72,4                                     | 63,50                       | 89,0        |



## SERIE AVS

STACKABLE ALUMINIUM COLLECTORS

# FLEXQ

CONNECTORS



| AVS                                                                                         |                                                                                                      |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  Inlet     |  Number of outlets |
| 3/4"<br>1"                                                                                  | 4 - 16                                                                                               |
|  Pressure |  Temperature range |
| 0 - 30 bar                                                                                  | -20°C +200°C                                                                                         |

End caps and mounting screws are not included

### OPTIONS

Colours and design according to customer requirements

### APPLICATIONS

Injection moulding  
Die casting



## ITEM CODE

**AVS T1 I - T2 O - N - C - L**

**AVS** Aluminium Collector

**T1** Thread type inlet

**I** Thread Inlet

**T2** Thread type outlet

**O** Thread outlet

**N** Number exits

**C** Colour

**L** Total length

### Thread type

| T1/T2 | Thread type |
|-------|-------------|
| G     | BSP         |
| N     | NPT         |

### Inlet

| I  | Thread size |
|----|-------------|
| 34 | 3/4"        |
| 10 | 1"          |

### Outless

| O  | Thread size |
|----|-------------|
| 14 | 1/4"        |
| 38 | 3/8"        |
| 12 | 1/2"        |

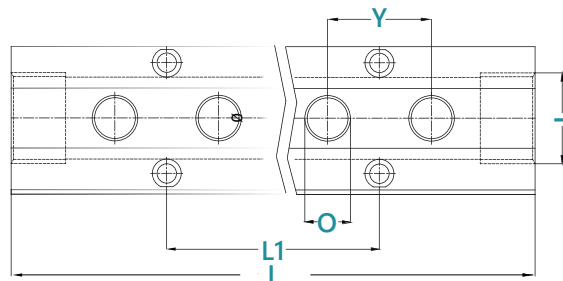
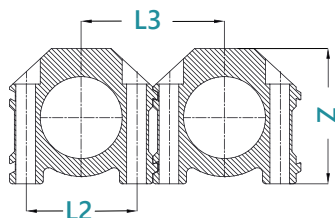
### Colour

| C | Colour |
|---|--------|
| R | Red    |
| B | Blue   |

## EXAMPLE CODE

**AVS G10-G38-8-R-433**

### DIMENSIONS



| I<br>Inlet | O<br>Outlet | ITEM CODE                                                                                                                                           | N<br>outlets                        | L<br>Length                                   | L1<br>Distance between<br>mounting holes      | L2<br>Distance between<br>mounting holes | L3 | Y<br>Distance between exits | Z<br>Height |
|------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------|----|-----------------------------|-------------|
| 3/4"       | 1/4"        | AVS.G34.G14.4.190<br>AVS.G34.G14.6.266<br>AVS.G34.G14.8.342<br>AVS.G34.G14.10.418                                                                   | 4<br>6<br>8<br>10                   | 190<br>266<br>342<br>418                      | 76<br>152<br>228<br>304                       | 31                                       | 45 | 38                          | 41,5        |
|            | 3/8"        | AVS.G34.G38.4.229<br>AVS.G34.G38.6.331<br>AVS.G34.G38.8.433<br>AVS.G34.G38.10.535                                                                   | 4<br>6<br>8<br>10                   | 229<br>331<br>433<br>535                      | 102<br>204<br>306<br>408                      |                                          |    | 51                          |             |
| 1"         | 1/4"        | AVS.G10.G14.4.190<br>AVS.G10.G14.6.266<br>AVS.G10.G14.8.342<br>AVS.G10.G14.10.418<br>AVS.G10.G14.12.494<br>AVS.G10.G14.14.570<br>AVS.G10.G14.16.646 | 4<br>6<br>8<br>10<br>12<br>14<br>16 | 190<br>266<br>342<br>418<br>494<br>570<br>646 | 76<br>152<br>228<br>304<br>380<br>456<br>532  | 40,6                                     | 53 | 38                          | 48,5        |
|            | 3/8"        | AVS.G10.G38.4.229<br>AVS.G10.G38.6.331<br>AVS.G10.G38.8.433<br>AVS.G10.G38.10.535<br>AVS.G10.G38.12.637<br>AVS.G10.G38.14.739<br>AVS.G10.G38.16.841 | 4<br>6<br>8<br>10<br>12<br>14<br>16 | 229<br>331<br>433<br>535<br>637<br>739<br>841 | 102<br>204<br>306<br>408<br>510<br>612<br>714 |                                          |    | 51                          |             |
|            | 1/2"        | AVS.G10.G12.4.229<br>AVS.G10.G12.6.331<br>AVS.G10.G12.8.433<br>AVS.G10.G12.10.535<br>AVS.G10.G12.12.637<br>AVS.G10.G12.14.739<br>AVS.G10.G12.16.841 | 4<br>6<br>8<br>10<br>12<br>14<br>16 |                                               |                                               |                                          |    |                             |             |

# FLEXQ

■ ALUMINIUM COLLECTORS / SERIES AVS



**FLEXQ**  
CONNECTORS

## CONNECTORS



|                                                                                        |          |                                                                                        |                   |
|----------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------|-------------------|
|  max. | Pressure |  max. | Temperature range |
| 0 - 16 bar                                                                             |          | 5°C +110°C                                                                             |                   |

## OPTIONS

## APPLICATIONS

|               |           |
|---------------|-----------|
| BV 34/10      | BV CP-70  |
| BV 114/112/20 | BV CP-150 |



## ITEM CODE

**BV T1 I - T2 O - N - C - L**

**BV** Brass Collector

**T1** Thread type inlet

**I** Thread Inlet

**T2** Thread type outlet

**O** Thread outlet

**N** Number exits

**C** Colour

**L** Total length

### Thread type

| T1/T2 | Thread type |
|-------|-------------|
| G     | BSP         |
| N     | NPT         |

### Inlet

| I   | Thread size |
|-----|-------------|
| 34  | 3/4"        |
| 10  | 1"          |
| 114 | 1 1/4"      |
| 112 | 1 1/2"      |
| 20  | 2"          |

### Outlets

| O  | Thread size |
|----|-------------|
| 14 | 1/4"        |
| 38 | 3/8"        |
| 12 | 1/2"        |
| 34 | 3/4"        |
| 10 | 1"          |

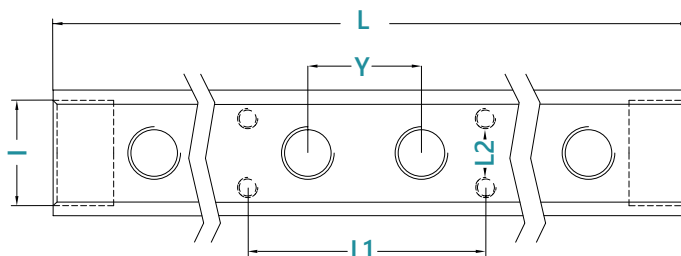
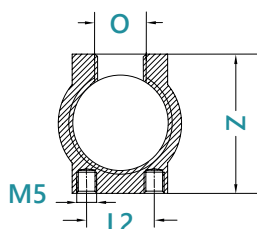
### Colour

| C | Colour |
|---|--------|
| R | Red    |
| B | Blue   |

## EXAMPLE CODE

**BV G114-G38-8-R-356**

### DIMENSIONS



| I<br>Inlet | O<br>Outlet | ITEM CODE                                                                                                                                                                                                                      | N<br>Exits                                               | L<br>Length                                                                | L1<br>Distance between<br>mounting holes | L2<br>Distance between<br>mounting holes | Y<br>Distance between exits | Z<br>Height |
|------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------|------------------------------------------|-----------------------------|-------------|
| 3/4"       | 1/4"        | BV.G34.G14.3.120<br>BV.G34.G14.4.150<br>BV.G34.G14.5.180<br>BV.G34.G14.6.210<br>BV.G34.G14.7.240<br>BV.G34.G14.8.270<br>BV.G34.G14.9.300<br>BV.G34.G14.10.330<br>BV.G34.G14.11.360<br>BV.G34.G14.12.390                        | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12        | 120<br>150<br>180<br>210<br>240<br>270<br>300<br>330<br>360<br>390         | 70                                       | 17                                       | 30                          | 35          |
|            | 3/8"        | BV.G34.G38.4.165<br>BV.G34.G38.5.200<br>BV.G34.G38.6.235<br>BV.G34.G38.7.270<br>BV.G34.G38.8.305<br>BV.G34.G38.9.340<br>BV.G34.G38.10.375<br>BV.G34.G38.11.410<br>BV.G34.G38.12.445                                            | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12             | 165<br>200<br>235<br>270<br>305<br>340<br>375<br>410<br>445                |                                          |                                          | 35                          |             |
| 1"         | 1/4"        | BV.G10.G14.4.165<br>BV.G10.G14.5.200<br>BV.G10.G14.6.235<br>BV.G10.G14.7.270<br>BV.G10.G14.8.305<br>BV.G10.G14.9.340<br>BV.G10.G14.10.375<br>BV.G10.G14.11.410<br>BV.G10.G14.12.445                                            | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12             | 165<br>200<br>235<br>270<br>305<br>340<br>375<br>410<br>445                | 70                                       | 17                                       | 35                          | 42          |
|            | 3/8"        | BV.G10.G38.4.165<br>BV.G10.G38.5.200<br>BV.G10.G38.6.235<br>BV.G10.G38.7.270<br>BV.G10.G38.8.305<br>BV.G10.G38.9.340<br>BV.G10.G38.10.375<br>BV.G10.G38.11.410<br>BV.G10.G38.12.445                                            | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12             | 165<br>200<br>235<br>270<br>305<br>340<br>375<br>410<br>445                |                                          |                                          | 35                          |             |
|            | 1/2"        | BV.G10.G12.4.210<br>BV.G10.G12.5.260<br>BV.G10.G12.6.310<br>BV.G10.G12.7.320<br>BV.G10.G12.8.410<br>BV.G10.G12.9.460<br>BV.G10.G12.10.510<br>BV.G10.G12.11.520<br>BV.G10.G12.12.610<br>BV.G10.G12.16.810<br>BV.G10.G12.20.1110 | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>16<br>20 | 210<br>260<br>310<br>360<br>410<br>460<br>510<br>560<br>610<br>810<br>1110 |                                          |                                          | 50                          |             |

### DIMENSIONS



Not painted brass collectors

| I<br>Inlet | O<br>Outlet | ITEM CODE                                                                                                                                                                                                          | N<br>Exits                                         | L<br>Length                                                        | L1<br>Distance between<br>mounting holes | L2<br>Distance between<br>mounting holes | Y<br>Distance between exits | Z<br>Height |
|------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|------------------------------------------|-----------------------------|-------------|
| 1 1/4"     | 3/8"        | BV.G114.G38.4.196<br>BV.G114.G38.5.236<br>BV.G114.G38.6.276<br>BV.G114.G38.7.316<br>BV.G114.G38.8.356<br>BV.G114.G38.9.396<br>BV.G114.G38.10.436<br>BV.G114.G38.11.476<br>BV.G114.G38.12.516<br>BV.G114.G38.16.676 | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>16 | 196<br>236<br>276<br>316<br>356<br>396<br>436<br>476<br>516<br>676 | 150                                      | 20                                       | 40                          | 51          |
|            | 1/2"        | BV.G114.G12.4.226<br>BV.G114.G12.5.276<br>BV.G114.G12.6.326<br>BV.G114.G12.7.376<br>BV.G114.G12.8.426<br>BV.G114.G12.9.476<br>BV.G114.G12.10.526<br>BV.G114.G12.11.576<br>BV.G114.G12.12.634<br>BV.G114.G12.12.826 | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>16 | 226<br>276<br>326<br>376<br>426<br>476<br>526<br>576<br>626<br>826 |                                          |                                          | 50                          |             |
| 1 1/2"     | 3/8"        | BV.G112.G38.4.196<br>BV.G112.G38.5.236<br>BV.G112.G38.6.276<br>BV.G112.G38.7.316<br>BV.G112.G38.8.356<br>BV.G112.G38.9.396<br>BV.G112.G38.10.436<br>BV.G112.G38.11.476<br>BV.G112.G38.12.516<br>BV.G112.G38.16.676 | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>16 | 196<br>236<br>276<br>316<br>356<br>396<br>436<br>476<br>516<br>676 | 150                                      | 20                                       | 40                          | 62          |
|            | 1/2"        | BV.G112.G12.4.226<br>BV.G112.G12.5.276<br>BV.G112.G12.6.326<br>BV.G112.G12.7.376<br>BV.G112.G12.8.426<br>BV.G112.G12.9.476<br>BV.G112.G12.10.526<br>BV.G112.G12.11.576<br>BV.G112.G12.12.626<br>BV.G112.G12.16.826 | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>16 | 226<br>276<br>326<br>376<br>426<br>476<br>526<br>576<br>626<br>826 |                                          |                                          | 50                          |             |
| 2"         | 1"          | BV.G20.G10.3.274<br>BV.G20.G10.4.374<br>BV.G20.G10.5.474<br>BV.G20.G10.6.574                                                                                                                                       | 3<br>4<br>5<br>6                                   | 274<br>374<br>474<br>574                                           | 150                                      | 20                                       | 100                         | 74          |

## SERIE EV

STAINLESS STEEL

**FLEXQ**  
CONNECTORS



### EV



Inlet

1"  
1 1/4"  
1 1/2"  
2"



Exits

2 - 8



Pressure

0 - 20 bar



Temperature range

-50°C +200°C

End caps and mounting screws are not included

### OPTIONS

Designs according to customer requirements

### APPLICATIONS

Injection moulding  
Die casting

### ITEM CODE

EV T1 I - T2 O - S - N - T

**EV** Stainless steel Collector

**T1** Thread type inlet

**I** Thread Inlet

**T2** Thread type outlet

**O** Thread outlet

**S** Scheme

**N** Number exits

**T** Type

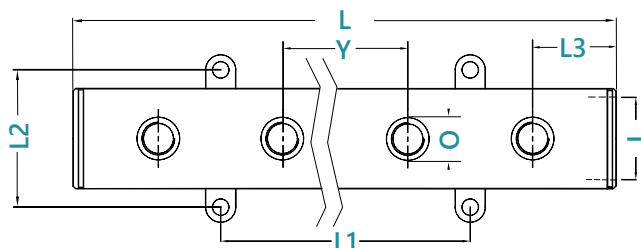
| Thread type | T1/T2 | Thread type | Inlet | I   | Thread size | Outlet | O  | Thread size | Type | T  | Type      |
|-------------|-------|-------------|-------|-----|-------------|--------|----|-------------|------|----|-----------|
|             | G     | BSP         |       | 10  | 1"          |        | 14 | 1/4"        |      | HE | High exit |
|             | N     | NPT         |       | 114 | 1 1/4"      |        | 38 | 3/8"        |      | LE | Low exit  |
|             |       |             |       | 112 | 1 1/2"      |        | 12 | 1/2"        |      |    |           |
|             |       |             |       | 20  | 2"          |        | 34 | 3/4"        |      |    |           |
|             |       |             |       |     |             |        | 10 | 1"          |      |    |           |

| Scheme | High exit |  | Low exit |  |  |  |  |  |  |  |
|--------|-----------|--|----------|--|--|--|--|--|--|--|
|        |           |  |          |  |  |  |  |  |  |  |

### EXAMPLE CODE

EV G10-G14-B-4-LE





| I<br>Inlet | O<br>Outlet | ITEM CODE                                                                        | N<br>Exits       | L<br>Length              | L1<br>Distance between<br>mounting holes | L2<br>Distance between<br>mounting holes | L3 | Y<br>Distance between<br>exits | Z<br>Height |
|------------|-------------|----------------------------------------------------------------------------------|------------------|--------------------------|------------------------------------------|------------------------------------------|----|--------------------------------|-------------|
| 1"         | 1/4"        | EV.G10.G14.S.2.T<br>EV.G10.G14.S.4.T<br>EV.G10.G14.S.6.T<br>EV.G10.G14.S.8.T     | 2<br>4<br>6<br>8 | 130<br>210<br>290<br>370 | 0<br>100<br>200<br>300                   | 55                                       | 45 | 40                             | 40          |
|            | 3/8"        | EV.G10.G38.S.2.T<br>EV.G10.G38.S.4.T<br>EV.G10.G38.S.6.T<br>EV.G10.G38.S.8.T     | 2<br>4<br>6<br>8 | 140<br>240<br>340<br>440 | 0<br>100<br>200<br>300                   |                                          |    |                                |             |
| 1 1/4"     | 1/4"        | EV.G114.G14.S.2.T<br>EV.G114.G14.S.4.T<br>EV.G114.G14.S.6.T<br>EV.G114.G14.S.8.T | 2<br>4<br>6<br>8 | 140<br>240<br>340<br>440 | 0<br>100<br>200<br>300                   | 65                                       |    | 50                             | 50          |
|            | 3/8"        | EV.G114.G38.S.2.T<br>EV.G114.G38.S.4.T<br>EV.G114.G38.S.6.T<br>EV.G114.G38.S.8.T | 2<br>4<br>6<br>8 | 140<br>240<br>340<br>440 | 0<br>100<br>200<br>300                   |                                          |    |                                |             |
|            | 1/2"        | EV.G114.G12.S.2.T<br>EV.G114.G12.S.4.T<br>EV.G114.G12.S.6.T<br>EV.G114.G12.S.8.T | 2<br>4<br>6<br>8 | 140<br>240<br>340<br>440 | 0<br>100<br>200<br>300                   |                                          |    |                                |             |
| 1 1/2"     | 1/4"        | EV.G112.G14.S.2.T<br>EV.G112.G14.S.4.T<br>EV.G112.G14.S.6.T<br>EV.G112.G14.S.8.T | 2<br>4<br>6<br>8 | 140<br>240<br>340<br>440 | 0<br>100<br>200<br>300                   | 65                                       |    | 50                             | 50          |
|            | 3/8"        | EV.G112.G38.S.2.T<br>EV.G112.G38.S.4.T<br>EV.G112.G38.S.6.T<br>EV.G112.G38.S.8.T | 2<br>4<br>6<br>8 | 140<br>240<br>340<br>440 | 10<br>100<br>200<br>300                  |                                          |    |                                |             |
|            | 1/2"        | EV.G112.G12.S.2.T<br>EV.G112.G12.S.4.T<br>EV.G112.G12.S.6.T<br>EV.G112.G12.S.8.T | 2<br>4<br>6<br>8 | 140<br>240<br>340<br>440 | 0<br>100<br>200<br>300                   |                                          |    |                                |             |
| 2"         | 3/8"        | EV.G20.G38.S.2.T<br>EV.G20.G38.S.4.T<br>EV.G20.G38.S.6.T<br>EV.G20.G38.S.8.T     | 2<br>4<br>6<br>8 | 150<br>270<br>390<br>510 | 0<br>100<br>200<br>300                   | 95                                       |    | 60                             | 80          |
|            | 1/2"        | EV.G20.G12.S.2.T<br>EV.G20.G12.S.4.T<br>EV.G20.G12.S.6.T<br>EV.G20.G12.S.8.T     | 2<br>4<br>6<br>8 | 150<br>270<br>390<br>510 | 0<br>100<br>200<br>300                   |                                          |    |                                |             |
|            | 3/4"        | EV.G20.G34.S.2.T<br>EV.G20.G34.S.4.T<br>EV.G20.G34.S.6.T<br>EV.G20.G34.S.8.T     | 2<br>4<br>6<br>8 | 150<br>270<br>390<br>510 | 0<br>100<br>200<br>300                   |                                          |    |                                |             |

S = A / B / C / AB / AC / BC / ABC  
T = HE / LE

# FLEXQ

■ STAINLESS STEEL COLLECTORS / SERIES EV



# FLEXQ

CONNECTORS

## MNG-BTH Hoses



**LINKING PRECISION WITH PERFORMANCE**



95°C

# Water / Air Hose MNG-E95S

## Specifications

|               |                                                                                                |
|---------------|------------------------------------------------------------------------------------------------|
| Rubber Tube   | Synthetic rubber                                                                               |
| Reinforcement | High strength synthetic textile yarn                                                           |
| Cover         | Smooth synthetic rubber – abrasion and wear resistant                                          |
| Application   | Specially designed hose for compressed water or air transfer for different industrial purposes |
| Temperature   | -25°C to +95°C                                                                                 |
| Colours       | Red / Blue / Black                                                                             |
| Roll Length   | 50 m                                                                                           |



User hose clamps!

| Description | Ø Inside |     | Ø Outside | Working pressure (at 20°C) |     | Burst pressure (at 20°C) |     | Weight |
|-------------|----------|-----|-----------|----------------------------|-----|--------------------------|-----|--------|
|             | Zoll     | mm  | mm        | bar                        | PSI | bar                      | PSI | g/m    |
| MNG-E95S-10 | 3/8"     | 9,5 | 17        | 20                         | 300 | 60                       | 900 | 230    |
| MNG-E95S-12 | 1/2"     | 13  | 21        | 20                         | 300 | 60                       | 900 | 320    |



100°C

## Clampless Hose MNG-P100S

### Specifications

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| Rubber Tube        | Synthetic rubber                                                          |
| Rubber Tube        | High tensile textile braid                                                |
| Cover              | Oil-, abrasive, ozone and weather resistant smooth cover                  |
| Application        | Discharge under pressure of hydraulic fluids, fuel, grease, air and water |
| Temperature        | -40°C to +100°C                                                           |
| Medium Temperature | Air: 80°C / Water: 100°C                                                  |
| Colours            | Red / Blue / Black                                                        |
| Roll Length        | 30 m                                                                      |



The clampless-connect system enables time savings on assembly without an additional clamp. Under no circumstances use hose clamps on clampless hoses in combination with clampless hose adapter.

| Description  | Ø Inside |      | Working pressure (at 20°C) |     | Burst pressure (at 20°C) |      | Min.bend radius | Weight |
|--------------|----------|------|----------------------------|-----|--------------------------|------|-----------------|--------|
|              | Zoll     | mm   | bar                        | PSI | bar                      | PSI  | mm              | g/m    |
| MNG-P100S-10 | 3/8"     | 9,5  | 24                         | 348 | 72                       | 1044 | 80              | 147    |
| MNG-P100S-12 | 1/2"     | 12,7 | 21                         | 305 | 63                       | 914  | 100             | 225    |
| MNG-P100S-16 | 5/8"     | 15,9 | 21                         | 305 | 63                       | 914  | 125             | 257    |
| MNG-P100S-19 | 3/4"     | 19   | 21                         | 305 | 63                       | 914  | 150             | 320    |



120°C

# Clampless Hose MNG-P120S

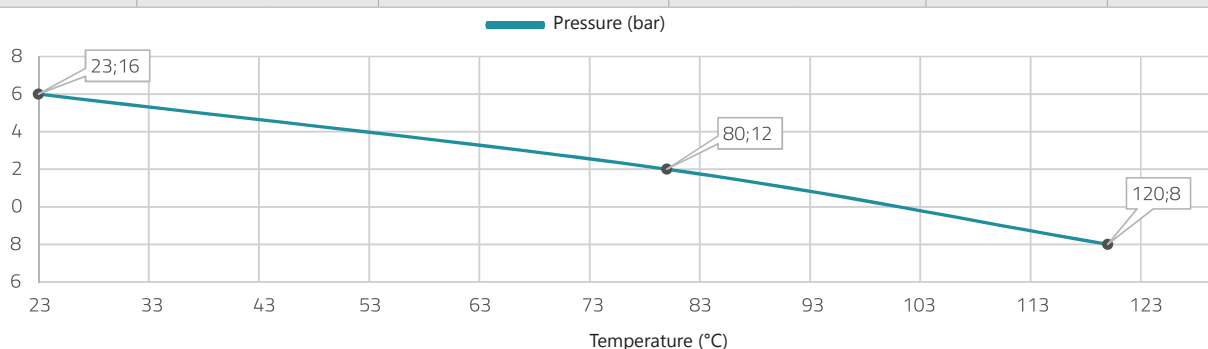
## Specifications

|                   |                                                |
|-------------------|------------------------------------------------|
| Rubber Tube       | EPDM black                                     |
| Reinforcement     | Synthetic yarn, spiralized                     |
| Cover             | Ozone- and weather-resistant smooth EPDM cover |
| Application       | Cooling liquids, antifreeze, air, water        |
| Temperature       | -40°C to +120°C                                |
| Media temperature | Air: 75°C / Water: 120°C                       |
| Colours           | Red / Blue / Black                             |



The clampless-connect system enables time savings on assembly without an additional clamp. Under no circumstances use hose clamps on clampless hoses in combination with clampless hose adapter.

| Description  | Ø Inside |                 | Working pressure (at 20°C) |     | Burst pressure (at 20°C) |       | Min.bend radius | Weight |
|--------------|----------|-----------------|----------------------------|-----|--------------------------|-------|-----------------|--------|
|              | Zoll     | mm              | bar                        | PSI | bar                      | PSI   |                 |        |
| MNG-P120S-10 | 3/8"     | 9,5<br>+0/-0,9  | 16                         | 232 | > 64                     | > 928 | 85              | 145    |
| MNG-P120S-12 | 1/2"     | 12,7<br>+0/-0,9 | 16                         | 232 | > 64                     | > 928 | 110             | 225    |
| MNG-P120S-16 | 5/8"     | 16<br>+0,5/-0,5 | 16                         | 232 | > 64                     | > 928 | 140             | 320    |
| MNG-P120S-19 | 3/4"     | 19<br>+0,5/-0,5 | 16                         | 232 | > 64                     | > 928 | 170             | 385    |





140°C

# Clampless Hose MNG-P140S

## Specifications

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| Rubber Tube        | Special synthetic rubber                                                  |
| Reinforcement      | High tensile textile braid                                                |
| Cover              | Oil-, abrasion, ozone and weather-resistant smooth cover                  |
| Application        | Discharge under pressure of hydraulic fluids, fuel, grease, air and water |
| Temperature        | -40°C to +140°C                                                           |
| Medium Temperature | Air: 70°C / Water: 140°C<br>(not suitable for steam applications)         |
| Colour             | Red / Blue / Black                                                        |
| Roll Length        | 30 m                                                                      |



The clampless-connect system enables time savings on assembly without an additional clamp. Under no circumstances use hose clamps on clampless hoses in combination with clampless hose adapter.

| Description  | Ø Inside |      | Working pressure (at 20°C) |     | Burst pressure (at 20°C) |      | Min.bend radius | Weight |
|--------------|----------|------|----------------------------|-----|--------------------------|------|-----------------|--------|
|              | Zoll     | mm   | bar                        | PSI | bar                      | PSI  | mm              | g/m    |
| MNG-P140S-10 | 3/8"     | 9,5  | 28                         | 406 | 200                      | 2900 | 75              | 165    |
| MNG-P140S-12 | 1/2"     | 12,7 | 28                         | 406 | 200                      | 2900 | 90              | 245    |
| MNG-P140S-16 | 5/8"     | 15,9 | 24                         | 348 | 140                      | 2030 | 115             | 290    |
| MNG-P140S-19 | 3/4"     | 19   | 21                         | 305 | 83                       | 1203 | 150             | 320    |

|      |       |
|------|-------|
| max. | 140°C |
| Peak | 160°C |

# Water Hose MNG-E140S

## Specifications

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| Rubber Tube        | EPDM black                                                                |
| Reinforcement      | High tensile textile braid                                                |
| Cover              | Oil-, abrasion, ozone and weather-resistant smooth cover                  |
| Application        | Discharge under pressure of hydraulic fluids, fuel, grease, air and water |
| Temperature        | -40°C to +140°C (Peak: 160°C)                                             |
| Medium Temperature | Air: 70°C / Water: 140°C / Steam: 150°C                                   |
| Colour             | Red / Blue / Black                                                        |
| Roll Length        | 50 m                                                                      |



Use hose clamps!

| Description  | Ø Inside |    | Working pressure (at 20°C) | Burst pressure (at 20°C) | Min.bend radius | Weight |
|--------------|----------|----|----------------------------|--------------------------|-----------------|--------|
|              | Zoll     | mm | bar                        | bar                      | mm              | g/m    |
| MNG-E140S-10 | 3/8"     | 10 | 20                         | 80                       | 60              | 111    |
| MNG-E140S-12 | 1/2"     | 13 | 20                         | 80                       | 100             | 170    |
| MNG-E140S-16 | 5/8"     | 16 | 20                         | 80                       | 130             | 320    |
| MNG-E140S-19 | 3/4"     | 19 | 20                         | 80                       | 190             | 350    |



100°C

## Water Hose MNG-TRX-100

### Specifications

|               |                                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rubber Tube   | Black, non-porous, smooth EPDM inner layer                                                                                                                              |
| Reinforcement | Synthetic yarns                                                                                                                                                         |
| Cover         | Black, smooth EPDM outer layer, ozone-, weather- and UV-resistant, fabric-patterned from DN 32 upwards                                                                  |
| Application   | Cold and hot water, soap solutions, as well as most aqueous salt solutions and a large number of chemicals. Up to DN 25 LABS-release agent- and grease-free production. |
| Temperature   | -40°C to +100°C                                                                                                                                                         |
| Rollenlänge   | 40 m                                                                                                                                                                    |



Only suitable hinged bolt clamps (or clamp jaws) should be used with the MNG-TRX-100 hose. Only these guarantee a secure and durable connection, especially under high pressure. Using other types of clamps can lead to leaks or connection failure.

| Description    | Ø Inside |    | Ø Outside | Min. bending radius | Working pressure |
|----------------|----------|----|-----------|---------------------|------------------|
|                | Zoll     | mm |           |                     |                  |
| MNG-TRX-100-13 | 1/2"     | 13 | 19,6      | 50                  | 20               |
| MNG-TRX-100-16 | 5/8"     | 16 | 23,0      | 60                  | 20               |
| MNG-TRX-100-19 | 3/4"     | 19 | 27,0      | 65                  | 20               |
| MNG-TRX-100-25 | 1"       | 25 | 34,0      | 110                 | 20               |
| MNG-TRX-100-32 | 1 1/4"   | 32 | 43,0      | 170                 | 15               |
| MNG-TRX-100-38 | 1 1/2"   | 38 | 50,0      | 200                 | 10               |
| MNG-TRX-100-50 | 2"       | 50 | 64,0      | 300                 | 10               |

FLEXQ



## Technical data sheet



200°C

# PFA stainless steel corrugated hose

## Specifications

|                          |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Inner tube</b>        | Perfluoralkoxy-Copolymer (PFA)                                                                                 |
| <b>Pressure carrier</b>  | Fiberglass                                                                                                     |
| <b>Cover</b>             | Stainless steel                                                                                                |
| <b>Application</b>       | High resistance to almost all chemicals, cleaning agents, and solvents. Can be used as a vacuum or steam hose. |
| <b>Temperature range</b> | -50°C to +200°C                                                                                                |



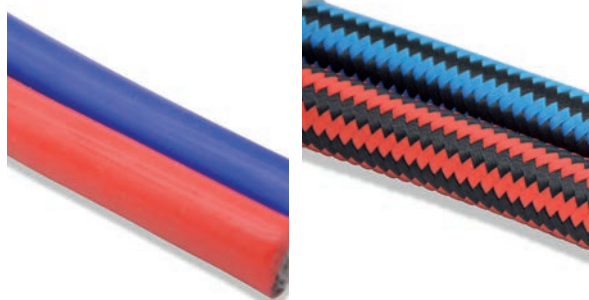
Ultra high flexible

| Item code        | Ø Inside | Ø Outside | Min. bend radius | Working pressure |      | Burst pressure |      | Weight<br>kg/100 m |
|------------------|----------|-----------|------------------|------------------|------|----------------|------|--------------------|
|                  | mm       | mm        |                  | bar              | psi  | bar            | psi  |                    |
| <b>BTH-UF-06</b> | 6,8      | 11,5      | 30               | 90               | 1300 | 360            | 5220 | 15                 |
| <b>BTH-UF-08</b> | 7,7      | 12,5      | 40               | 70               | 1000 | 280            | 4060 | 15                 |
| <b>BTH-UF-10</b> | 9,7      | 15        | 50               | 65               | 940  | 260            | 3750 | 20                 |
| <b>BTH-UF-13</b> | 12,5     | 18        | 60               | 60               | 870  | 240            | 3450 | 26                 |
| <b>BTH-UF-16</b> | 15,5     | 22        | 60               | 55               | 790  | 220            | 3190 | 33                 |
| <b>BTH-UF-20</b> | 19,8     | 27        | 70               | 45               | 650  | 180            | 2600 | 40                 |

## Optional

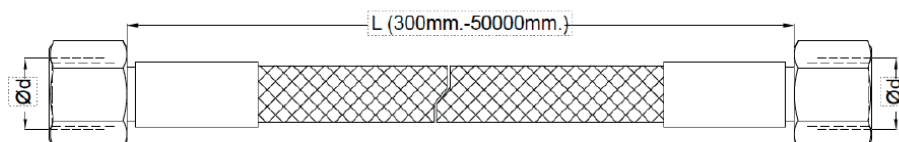
### Protective hose made by silicone or Polyester

The optional cover is particularly heat-resistant and also offers excellent protection against heat radiation. Due to its special properties, the hose can be used wherever lines are exposed to extreme heat.



|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| <b>Temperature range</b> | -50°C up to +200°C                                  |
| <b>Colours</b>           | red, blue                                           |
| <b>Material</b>          | Fiberglass tubing with silicone or polyester cover. |

### Order codes for pre-assembled hoses



#### Structure of the item code:

B T H - U F 2 5 7 0 0 0 B 1 0 / B 1 0 - 9 0 S

Only required if both hose ends are to be configured differently.

Cover S = silicone, P = polyester

Angle (45°/90°)

Thread (see chart below)

Thread type B=BSP, M=Metrisch

Hose Length in mm (Min. 300 - Max. 50.000)

Hose diameter (see chart below)

|                    |    | Thread size |             |             |             |             |               |                 |                 |                 |                 |                 |                 |                 |
|--------------------|----|-------------|-------------|-------------|-------------|-------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                    |    | BSP         |             |             |             |             |               | Metric          |                 |                 |                 |                 |                 |                 |
|                    |    | 14<br>1/4"  | 38<br>3/8"  | 12<br>1/2"  | 34<br>3/4"  | 10<br>1"    | 114<br>1 1/4" | 1415<br>M14x1.5 | 1615<br>M16x1.5 | 1815<br>M18x1.5 | 2215<br>M22x1.5 | 2615<br>M26x1.5 | 3020<br>M30x2.0 | 3620<br>M36x2.0 |
| Hose diameter (DN) | 06 | <div></div> | <div></div> |             |             |             |               | <div></div>     | <div></div>     |                 |                 |                 |                 |                 |
|                    | 08 | <div></div> | <div></div> |             |             |             |               | <div></div>     | <div></div>     |                 |                 |                 |                 |                 |
|                    | 10 | <div></div> | <div></div> | <div></div> |             |             |               | <div></div>     | <div></div>     | <div></div>     |                 |                 |                 |                 |
|                    | 13 |             | <div></div> | <div></div> |             |             |               |                 | <div></div>     | <div></div>     | <div></div>     |                 |                 |                 |
|                    | 16 |             |             |             | <div></div> |             |               |                 |                 |                 | <div></div>     |                 |                 |                 |
|                    | 20 |             |             |             | <div></div> | <div></div> |               |                 |                 |                 |                 |                 | <div></div>     |                 |
|                    | 25 |             |             |             |             | <div></div> |               |                 |                 |                 |                 |                 |                 | <div></div>     |

## Technical data sheet



260°C

# PTFE stainless steel corrugated hose

## Specifications

|                          |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| <i>Inner tube</i>        | Polytetrafluoroethylene (PTFE)                                                                                 |
| <i>Pressure carrier</i>  | Fiberglass                                                                                                     |
| <i>Cover</i>             | Stainless steel                                                                                                |
| <i>Application</i>       | High resistance to almost all chemicals, cleaning agents, and solvents. Can be used as a vacuum or steam hose. |
| <i>Temperature range</i> | -70°C to +260°C                                                                                                |

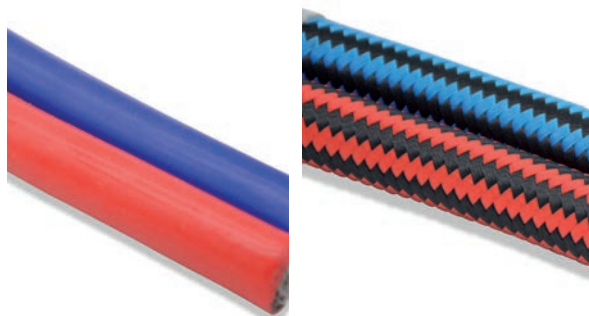


High flexible

| Item code         | Ø Inside | Ø Outside | Min. bend radius | Working pressure |      | Burst pressure |      | Weight<br>kg/100 m |
|-------------------|----------|-----------|------------------|------------------|------|----------------|------|--------------------|
|                   | mm       | mm        |                  | bar              | psi  | bar            | psi  |                    |
| <b>BTH-UFT-06</b> | 6,8      | 11,5      | 30               | 90               | 1300 | 360            | 5220 | 15                 |
| <b>BTH-UFT-08</b> | 7,7      | 12,5      | 40               | 70               | 1000 | 280            | 4060 | 15                 |
| <b>BTH-UFT-10</b> | 9,7      | 15        | 50               | 65               | 940  | 260            | 3750 | 20                 |
| <b>BTH-UFT-13</b> | 12,5     | 18        | 60               | 60               | 870  | 240            | 3450 | 26                 |
| <b>BTH-UFT-16</b> | 15,5     | 22        | 60               | 55               | 790  | 220            | 3190 | 33                 |
| <b>BTH-UFT-20</b> | 19,8     | 27        | 70               | 45               | 650  | 180            | 2600 | 40                 |

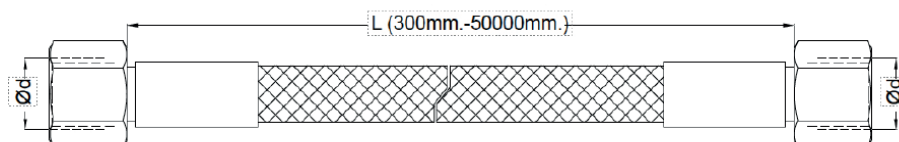
### Protective hose made by silicone or Polyester

The optional cover is particularly heat-resistant and also offers excellent protection against heat radiation. Due to its special properties, the hose can be used wherever lines are exposed to extreme heat.



|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| <i>Temperature range</i> | -70°C up to +260°C                                  |
| <i>Colours</i>           | red, blue                                           |
| <i>Material</i>          | Fiberglass tubing with silicone or polyester cover. |

### Order codes for assembled hoses



#### Structure of the item code:

B T H - U F T 2 5 7 0 0 0 B 1 0 / B 1 0 - 9 0 S

Only required if both hose ends are to be configured differently.

Cover S = silicone, P = polyester

Angle (45°/90°)

Thread (see chart below)

Thread type B=BSP, M=Metric

Hose Length in mm (Min. 300 - Max. 50.000)

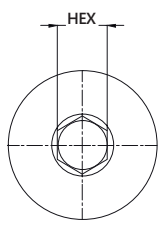
Hose diameter (see chart below)

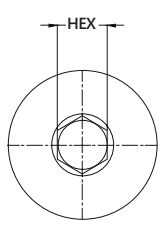
|                    |    | Thread size |             |             |             |             |               |                 |                 |                 |                 |                 |                 |                 |
|--------------------|----|-------------|-------------|-------------|-------------|-------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                    |    | BSP         |             |             |             |             |               | Metric          |                 |                 |                 |                 |                 |                 |
|                    |    | 14<br>1/4"  | 38<br>3/8"  | 12<br>1/2"  | 34<br>3/4"  | 10<br>1"    | 114<br>1 1/4" | 1415<br>M14x1.5 | 1615<br>M16x1.5 | 1815<br>M18x1.5 | 2215<br>M22x1.5 | 2615<br>M26x1.5 | 3020<br>M30x2.0 | 3620<br>M36x2.0 |
| Hose diameter (DN) | 06 | <div></div> | <div></div> |             |             |             |               | <div></div>     | <div></div>     |                 |                 |                 |                 |                 |
|                    | 08 | <div></div> | <div></div> |             |             |             |               | <div></div>     | <div></div>     |                 |                 |                 |                 |                 |
|                    | 10 | <div></div> | <div></div> | <div></div> |             |             |               | <div></div>     | <div></div>     | <div></div>     |                 |                 |                 |                 |
|                    | 13 |             | <div></div> | <div></div> |             |             |               |                 | <div></div>     | <div></div>     | <div></div>     |                 |                 |                 |
|                    | 16 |             |             |             | <div></div> |             |               |                 |                 |                 | <div></div>     |                 |                 |                 |
|                    | 20 |             |             |             | <div></div> | <div></div> |               |                 |                 |                 |                 |                 | <div></div>     |                 |
|                    | 25 |             |             |             |             | <div></div> |               |                 |                 |                 |                 |                 |                 | <div></div>     |

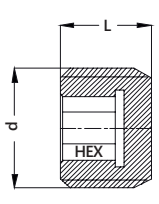
## Accessories

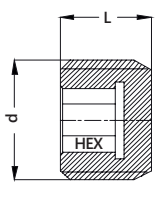


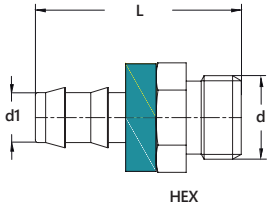
**LINKING PRECISION WITH PERFORMANCE**

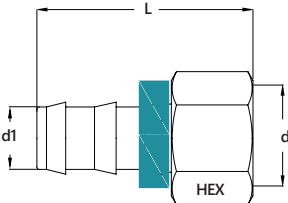
| Item code | Thread (d) | L  | HEX | Pressure plug with O-Ring                                                                                                                                |
|-----------|------------|----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| VSO 18    | BSP 1/8"   | 9  | 5   |  <p>Material: Brass (MS 58)<br/>O-Ring: NBR</p> <p><b>DIN 908</b></p> |
| VSO 14    | BSP 1/4"   |    | 6   |                                                                                                                                                          |
| VSO 38    | BSP 3/8"   | 14 | 8   |                                                                                                                                                          |
| VSO 12    | BSP 1/2"   | 16 | 10  |                                                                                                                                                          |
| VSO 34    | BSP 3/4"   | 18 | 12  |                                                                                                                                                          |
| VSO 10    | BSP 1"     | 20 | 17  |                                                                                                                                                          |
| VSO 114   | BSP 1 1/4" | 22 | 22  |                                                                                                                                                          |
| VSO 112   | BSP 1 1/2" | 24 | 24  |                                                                                                                                                          |
| VSO 20    | BSP 2"     | 26 | 24  |                                                                                                                                                          |
|           |            | 28 |     |                                                                                                                                                          |

| Item code | Thread (d) | L  | HEX | Pressure plug with copper ring                                                                                                            |
|-----------|------------|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------|
| VSO 18    | BSP 1/8"   | 11 | 5   |  <p>Material: Brass (MS 58)</p> <p><b>DIN 908</b></p> |
| VSO 14    | BSP 1/4"   | 15 | 6   |                                                                                                                                           |
| VSO 38    | BSP 3/8"   | 15 | 8   |                                                                                                                                           |
| VSO 12    | BSP 1/2"   | 18 | 10  |                                                                                                                                           |
| VSO 34    | BSP 3/4"   | 20 | 12  |                                                                                                                                           |
| VSO 10    | BSP 1"     | 21 | 17  |                                                                                                                                           |
| VSO 114   | BSP 1 1/4" | 21 | 22  |                                                                                                                                           |
| VSO 112   | BSP 1 1/2" | 21 | 24  |                                                                                                                                           |
| VSO 20    | BSP 2"     | 24 | 24  |                                                                                                                                           |

| Item code | Thread (d) | L  | HEX | Pressure plug with cylindrical BSP thread                                                                                                  |
|-----------|------------|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------|
| VSG 18    | BSP 1/8"   | 8  | 5   |  <p>Material: Brass (MS 58)</p> <p><b>DIN 906</b></p> |
| VSG 14    | BSP 1/4"   | 10 | 7   |                                                                                                                                            |
| VSG 38    | BSP 3/8"   | 10 | 8   |                                                                                                                                            |
| VSG 12    | BSP 1/2"   | 10 | 10  |                                                                                                                                            |
| VSG 34    | BSP 3/4"   | 12 | 12  |                                                                                                                                            |
| VSG 10    | BSP 1"     | 19 | 17  |                                                                                                                                            |
| VSG 114   | BSP 1 1/4" | 22 | 22  |                                                                                                                                            |
| VSG 112   | BSP 1 1/2" | 22 | 24  |                                                                                                                                            |
| VSG 20    | BSP 2"     | 25 | 24  |                                                                                                                                            |

| Item code | Thread (d) | L  | HEX | Pressure plug with conical BSPT thread                                                                                                     |
|-----------|------------|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------|
| VSР 18    | BSP 1/8"   | 8  | 5   |  <p>Material: Brass (MS 58)</p> <p><b>DIN 906</b></p> |
| VSР 14    | BSP 1/4"   | 10 | 7   |                                                                                                                                            |
| VSР 38    | BSP 3/8"   | 10 | 8   |                                                                                                                                            |
| VSР 12    | BSP 1/2"   | 10 | 10  |                                                                                                                                            |
| VSР 34    | BSP 3/4"   | 12 | 12  |                                                                                                                                            |
| VSР 10    | BSP 1"     | 19 | 17  |                                                                                                                                            |
| VSР 114   | BSP 1 1/4" | 22 | 22  |                                                                                                                                            |
| VSР 112   | BSP 1 1/2" | 22 | 24  |                                                                                                                                            |
| VSР 20    | BSP 2"     | 25 | 24  |                                                                                                                                            |

| Clampless hose connector with male thread                                                                                      | Item code | Thread (d) | Hose ID (d1) | L  | HEX |
|--------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------------|----|-----|
|  <p>Material: Brass (MS 58) nickel plated</p> | MPA 18.06 | BSP 1/8"   | 6            | 29 | 14  |
|                                                                                                                                | MPA 18.10 | BSP 1/8"   | 10           | 39 | 14  |
|                                                                                                                                | MPA 14.06 | BSP 1/4"   | 6            | 39 | 17  |
|                                                                                                                                | MPA 14.10 | BSP 1/4"   | 10           | 39 | 17  |
|                                                                                                                                | MPA 14.13 | BSP 1/4"   | 13           | 41 | 17  |
|                                                                                                                                | MPA 38.10 | BSP 3/8"   | 10           | 41 | 19  |
|                                                                                                                                | MPA 38.13 | BSP 3/8"   | 13           | 45 | 19  |
|                                                                                                                                | MPA 12.10 | BSP 1/2"   | 10           | 45 | 22  |
|                                                                                                                                | MPA 12.13 | BSP 1/2"   | 13           | 49 | 22  |
|                                                                                                                                | MPA 12.16 | BSP 1/2"   | 16           | 60 | 22  |
|                                                                                                                                | MPA 26.16 | BSP 3/4"   | 16           | 62 | 30  |
|                                                                                                                                | MPA 26.19 | BSP 3/4"   | 19           | 62 | 30  |
|                                                                                                                                | MPA 10.19 | BSP 1"     | 19           | 70 | 35  |
|                                                                                                                                | MPA 10.25 | BSP 1"     | 25           | 70 | 35  |

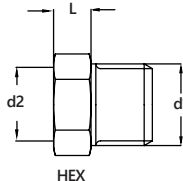
| Clampless hose connector with male thread                                                                                        | Item code | Thread (d) | Hose ID (d1) | L  | HEX |
|----------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------------|----|-----|
|  <p>Material: Brass (MS 58) nickel plated</p> | FPA 18.06 | BSP 1/8"   | 6            | 30 | 14  |
|                                                                                                                                  | FPA 18.10 | BSP 1/8"   | 10           | 30 | 14  |
|                                                                                                                                  | FPA 14.06 | BSP 1/4"   | 6            | 32 | 17  |
|                                                                                                                                  | FPA 14.10 | BSP 1/4"   | 10           | 36 | 17  |
|                                                                                                                                  | FPA 14.13 | BSP 1/4"   | 13           | 40 | 17  |
|                                                                                                                                  | FPA 38.10 | BSP 3/8"   | 10           | 37 | 20  |
|                                                                                                                                  | FPA 38.13 | BSP 3/8"   | 13           | 41 | 20  |
|                                                                                                                                  | FPA 12.10 | BSP 1/2"   | 10           | 41 | 24  |
|                                                                                                                                  | FPA 12.13 | BSP 1/2"   | 13           | 45 | 24  |
|                                                                                                                                  | FPA 12.16 | BSP 1/2"   | 16           | 45 | 24  |
|                                                                                                                                  | FPA 26.16 | BSP 3/4"   | 16           | 48 | 30  |
|                                                                                                                                  | FPA 26.19 | BSP 3/4"   | 19           | 58 | 30  |

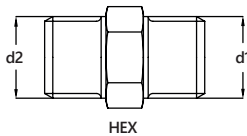
| Hose connector                                                                                                     | Item code | Hose ID |
|--------------------------------------------------------------------------------------------------------------------|-----------|---------|
|  <p>Material: Brass (MS 58)</p> | PPA 06    | 6       |
|                                                                                                                    | PPA 10    | 10      |
|                                                                                                                    | PPA 13    | 13      |
|                                                                                                                    | PPA 16    | 16      |
|                                                                                                                    | PPA 19    | 19      |
|                                                                                                                    | PPA 25    | 25      |

| Item code | Thread (d) | Hose ID (d1) | L  | HEX | Standard hose connector with male thread     |
|-----------|------------|--------------|----|-----|----------------------------------------------|
| MHA 18.04 | BSP 1/8"   | 4            | 43 | 14  | <p>Material: Brass (MS 58) nickel plated</p> |
| MHA 18.06 | BSP 1/8"   | 6            | 43 | 14  |                                              |
| MHA 18.08 | BSP 1/8"   | 8            | 43 | 14  |                                              |
| MHA 18.10 | BSP 1/8"   | 10           | 43 | 14  |                                              |
| MHA 14.06 | BSP 1/4"   | 6            | 45 | 17  |                                              |
| MHA 14.08 | BSP 1/4"   | 8            | 45 | 17  |                                              |
| MHA 14.10 | BSP 1/4"   | 10           | 45 | 17  |                                              |
| MHA 14.13 | BSP 1/4"   | 13           | 51 | 17  |                                              |
| MHA 38.08 | BSP 3/8"   | 8            | 45 | 19  |                                              |
| MHA 38.10 | BSP 3/8"   | 10           | 45 | 19  |                                              |
| MHA 38.13 | BSP 3/8"   | 13           | 52 | 19  |                                              |
| MHA 38.16 | BSP 3/8"   | 16           | 52 | 22  |                                              |
| MHA 12.13 | BSP 1/2"   | 13           | 54 | 22  |                                              |
| MHA 12.16 | BSP 1/2"   | 16           | 54 | 22  |                                              |
| MHA 34.16 | BSP 3/4"   | 16           | 58 | 30  |                                              |
| MHA 34.19 | BSP 3/4"   | 19           | 58 | 30  |                                              |

| Item code | Thread (d) | Hose ID (d1) | L  | HEX | Standard hose connector with female thread   |
|-----------|------------|--------------|----|-----|----------------------------------------------|
| FHA 18.06 | BSP 1/8"   | 6            | 32 | 12  | <p>Material: Brass (MS 58) nickel plated</p> |
| FHA 18.08 | BSP 1/8"   | 8            | 32 | 12  |                                              |
| FHA 14.06 | BSP 1/4"   | 6            | 30 | 17  |                                              |
| FHA 14.08 | BSP 1/4"   | 8            | 35 | 17  |                                              |
| FHA 14.10 | BSP 1/4"   | 10           | 35 | 17  |                                              |
| FHA 14.13 | BSP 1/4"   | 13           | 37 | 17  |                                              |
| FHA 38.08 | BSP 3/8"   | 8            | 36 | 19  |                                              |
| FHA 38.10 | BSP 3/8"   | 10           | 36 | 19  |                                              |
| FHA 38.13 | BSP 3/8"   | 13           | 38 | 19  |                                              |
| FHA 12.10 | BSP 1/2"   | 10           | 36 | 24  |                                              |
| FHA 12.13 | BSP 1/2"   | 16           | 40 | 24  |                                              |
| FHA 12.16 | BSP 3/4"   | 16           | 41 | 24  |                                              |
| FHA 34.16 | BSP 3/4"   | 16           | 45 | 30  |                                              |
| FHA 34.19 | BSP 3/4"   | 19           | 49 | 30  |                                              |

| Item code | Hose ID | Hose connector                 |
|-----------|---------|--------------------------------|
| HHA 04    | 4       | <p>Material: Brass (MS 58)</p> |
| HHA 06    | 6       |                                |
| HHA 08    | 8       |                                |
| HHA 09    | 9       |                                |
| HHA 10    | 10      |                                |
| HHA 13    | 13      |                                |
| HHA 16    | 16      |                                |
| HHA 19    | 19      |                                |
| HHA 25    | 25      |                                |

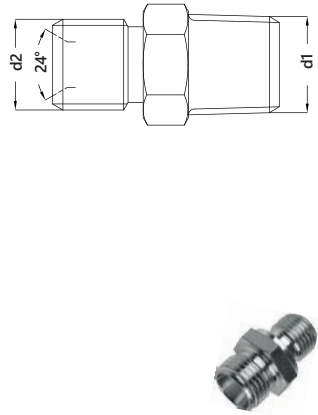
| Male-female adapter                                                               | Brass       | Brass nickel plated | Male thread (d1) | Female-thread (d2) | L  | HEX |
|-----------------------------------------------------------------------------------|-------------|---------------------|------------------|--------------------|----|-----|
|  | MFA 18.14   | MFA 18.14 NV        | BSP 1/8"         | BSP 1/4"           | 18 | 17  |
|                                                                                   | MFA 18.38   | MFA 18.38 NV        | BSP 1/8"         | BSP 3/8"           | 19 | 19  |
|                                                                                   |             | MFA 18.12 NV        | BSP 1/8"         | BSP 1/2"           | 18 | 24  |
|                                                                                   | MFA 14.18   | MFA 14.18 NV        | BSP 1/4"         | BSP 1/8"           | 4  | 17  |
|                                                                                   | MFA 14.38   | MFA 14.38 NV        | BSP 1/4"         | BSP 3/8"           | 20 | 19  |
|                                                                                   | MFA 14.12   | MFA 14.12 NV        | BSP 1/4"         | BSP 1/2"           | 14 | 24  |
|                                                                                   | MFA 38.18   | MFA 38.18 NV        | BSP 3/8"         | BSP 1/8"           | 4  | 19  |
|                                                                                   | MFA 38.14   | MFA 38.14 NV        | BSP 3/8"         | BSP 1/4"           | 5  | 19  |
|                                                                                   | MFA 38.12   | MFA 38.12 NV        | BSP 3/8"         | BSP 1/2"           | 16 | 24  |
|                                                                                   | MFA 12.18   | MFA 12.18 NV        | BSP 1/2"         | BSP 1/8"           | 6  | 24  |
|                                                                                   | MFA 12.14   | MFA 12.14 NV        | BSP 1/2"         | BSP 1/4"           | 6  | 24  |
|                                                                                   | MFA 12.38   | MFA 12.38 NV        | BSP 1/2"         | BSP 3/8"           | 6  | 24  |
|                                                                                   | MFA 12.34   | MFA 12.34 NV        | BSP 1/2"         | BSP 3/4"           | 19 | 32  |
|                                                                                   | MFA 34.14   | MFA 34.14 NV        | BSP 3/4"         | BSP 1/4"           | 5  | 27  |
|                                                                                   | MFA 34.38   | MFA 34.38 NV        | BSP 3/4"         | BSP 3/8"           | 6  | 32  |
|                                                                                   | MFA 34.12   | MFA 34.12 NV        | BSP 3/4"         | BSP 1/2"           | 8  | 32  |
|                                                                                   | MFA 34.10   | MFA 34.10 NV        | BSP 3/4"         | BSP 1"             | 15 | 36  |
|                                                                                   |             | MFA 10.38 NV        | BSP 1"           | BSP 3/8"           | 7  | 36  |
|                                                                                   | MFA 10.12   | MFA 10.12 NV        | BSP 1"           | BSP 1/2"           | 6  | 36  |
|                                                                                   | MFA 10.34   | MFA 10.34 NV        | BSP 1"           | BSP 3/4"           | 6  | 36  |
|                                                                                   | MFA 10.114  | MFA 10.114 NV       | BSP 1"           | BSP 1 1/4"         | 14 | 45  |
|                                                                                   | MFA 114.34  | MFA 114.34 NV       | BSP 1 1/4"       | BSP 3/4"           | 7  | 42  |
|                                                                                   | MFA 114.10  | MFA 114.10 NV       | BSP 1 1/4"       | BSP 1"             | 7  | 42  |
|                                                                                   | MFA 114.112 | MFA 114.112 NV      | BSP 1 1/4"       | BSP 1 1/2"         | 15 | 51  |
|                                                                                   | MFA 112.34  | MFA 112.34 NV       | BSP 1 1/2"       | BSP 3/4"           | 8  | 50  |
|                                                                                   | MFA 112.10  | MFA 112.10 NV       | BSP 1 1/2"       | BSP 1"             | 8  | 50  |
|                                                                                   | MFA 112.114 | MFA 112.114 NV      | BSP 1 1/2"       | BSP 1 1/4"         | 8  | 50  |
|                                                                                   | MFA 20.10   | MFA 20.10 NV        | BSP 2"           | BSP 1"             | 9  | 60  |
|                                                                                   | MFA 20.114  | MFA 20.114 NV       | BSP 2"           | BSP 1 1/4"         | 9  | 60  |
|                                                                                   | MFA 20.112  | MFA 20.112 NV       | BSP 2"           | BSP 1 1/2"         | 9  | 60  |

| Brass       | Brass nickel plated | Male thread (d1) | Male thread (d2) | HEX | Male-male adapter                                                                                                                                                          |
|-------------|---------------------|------------------|------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MMA 18.18   | MMA 18.18 NV        | BSP 1/8"         | BSP 1/8"         | 14  |   |
| MMA 14.18   | MMA 14.18 NV        | BSP 1/4"         | BSP 1/8"         | 17  |                                                                                                                                                                            |
| MMA 14.14   | MMA 14.14 NV        | BSP 1/4"         | BSP 1/4"         | 17  |                                                                                                                                                                            |
| MMA 14.38   | MMA 14.18 NV        | BSP 1/4"         | BSP 1/8"         | 17  |                                                                                                                                                                            |
| MMA 38.18   | MMA 38.18 NV        | BSP 3/8"         | BSP 1/8"         | 19  |                                                                                                                                                                            |
| MMA 38.14   | MMA 38.14 NV        | BSP 3/8"         | BSP 1/4"         | 19  |                                                                                                                                                                            |
| MMA 38.38   | MMA 38.38 NV        | BSP 3/8"         | BSP 3/8"         | 19  |                                                                                                                                                                            |
| MMA 12.14   | MMA 12.14 NV        | BSP 1/2"         | BSP 1/4"         | 24  |                                                                                                                                                                            |
| MMA 12.38   | MMA 12.38 NV        | BSP 1/2"         | BSP 3/8"         | 24  |                                                                                                                                                                            |
| MMA 12.12   | MMA 12.12 NV        | BSP 1/2"         | BSP 1/2"         | 24  |                                                                                                                                                                            |
| MMA 34.38   | MMA 34.38 NV        | BSP 3/4"         | BSP 3/8"         | 32  |                                                                                                                                                                            |
| MMA 34.12   | MMA 34.12 NV        | BSP 3/4"         | BSP 1/2"         | 30  |                                                                                                                                                                            |
|             |                     | BSP 3/4"         | BSP 1/2"         | 32  |                                                                                                                                                                            |
| MMA 34.34   | MMA 34.34 NV        | BSP 3/4"         | BSP 3/4"         | 30  |                                                                                                                                                                            |
|             |                     | BSP 3/4"         | BSP 3/4"         | 32  |                                                                                                                                                                            |
| MMA 10.12   | MMA 10.12 NV        | BSP 1"           | BSP 1/2"         | 34  |                                                                                                                                                                            |
|             |                     | BSP 1"           | BSP 1/2"         | 36  |                                                                                                                                                                            |
| MMA 10.34   | MMA 10.34 NV        | BSP 1"           | BSP 3/4"         | 36  |                                                                                                                                                                            |
| MMA 10.10   | MMA 10.10 NV        | BSP 1"           | BSP 1"           | 36  |                                                                                                                                                                            |
|             |                     | BSP 1"           | BSP 1"           | 34  |                                                                                                                                                                            |
| MMA 114.12  | MMA 114.12 NV       | BSP 1 1/4"       | BSP 1/2"         | 43  |                                                                                                                                                                            |
| MMA 114.34  | MMA 114.34 NV       | BSP 1 1/4"       | BSP 3/4"         | 42  |                                                                                                                                                                            |
| MMA 114.10  | MMA 114.10 NV       | BSP 1 1/4"       | BSP 1"           | 42  |                                                                                                                                                                            |
| MMA 114.114 | MMA 114.114 NV      | BSP 1 1/4"       | BSP 1 1/4"       | 42  |                                                                                                                                                                            |
| MMA 112.10  | MMA 112.10 NV       | BSP 1 1/2"       | BSP 1 1/2"       | 50  |                                                                                                                                                                            |
| MMA 112.114 | MMA 112.114 NV      | BSP 1 1/2"       | BSP 1 1/4"       | 50  |                                                                                                                                                                            |
| MMA 112.112 | MMA 112.112 NV      | BSP 1 1/2"       | BSP 1 1/2"       | 50  |                                                                                                                                                                            |
| MMA 20.10   | MMA 20.10 NV        | BSP 2"           | BSP 1"           | 60  |                                                                                                                                                                            |
| MMA 20.114  | MMA 20.114 NV       | BSP 2"           | BSP 1 1/4"       | 60  |                                                                                                                                                                            |
| MMA 20.112  | MMA 20.112 NV       | BSP 2"           | BSP 2"           | 60  |                                                                                                                                                                            |
| MMA 20.20   | MMA 20.20 NV        | BSP 2"           | BSP 2"           | 60  |                                                                                                                                                                            |
| MMA 212.20  | MMA 212.20 NV       | BSP 2 1/2"       | BSP 2"           | 77  |                                                                                                                                                                            |
| MMA 212.212 | MMA 212.212 NV      | BSP 2 1/2"       | BSP 2 1/2"       | 77  |                                                                                                                                                                            |
| MMA 30.20   | MMA 30.20 NV        | BSP 3"           | BSP 2"           | 89  |                                                                                                                                                                            |
| MMA 30.212  | MMA 30.212 NV       | BSP 3"           | BSP 2 1/2"       | 89  |                                                                                                                                                                            |
| MMA 30.30   | MMA 30.30 NV        | BSP 3"           | BSP 3"           | 89  |                                                                                                                                                                            |
|             | MMA 30.40 NV        | BSP 3"           | BSP 4"           | 125 |                                                                                                                                                                            |

| Clampless hose swivel connector with female thread                                                                                 | Item code    | Thread (d) | Hose ID (d1) | Pipe | PN |
|------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|--------------|------|----|
|  <p>Material: Steel zinc plated<br/>Cone: 24°</p> | FNPA.1215.06 | M12x1,5    | 6            | 6L   | 25 |
|                                                                                                                                    | FNPA.1415.06 | M14x1,5    | 6            | 8L   | 25 |
|                                                                                                                                    | FNPA.1615.06 | M16x1,5    | 6            | 10L  | 25 |
|                                                                                                                                    | FNPA.1615.10 | M16x1,5    | 10           | 10L  | 20 |
|                                                                                                                                    | FNPA.1815.10 | M18x1,5    | 10           | 12L  | 20 |
|                                                                                                                                    | FNPA.1815.13 | M18x1,5    | 13           | 12L  | 16 |
|                                                                                                                                    | FNPA.2215.13 | M22x1,5    | 13           | 15L  | 16 |
|                                                                                                                                    | FNPA.2215.16 | M22x1,5    | 16           | 15L  | 16 |
|                                                                                                                                    | FNPA.2615.16 | M26x1,5    | 16           | 18L  | 16 |
|                                                                                                                                    | FNPA.3020.19 | M30x2,0    | 19           | 22L  | 12 |
|                                                                                                                                    | FNPA.3620.25 | M36x2,0    | 25           | 28L  | 12 |

| Clampless hose swivel connector with female thread                                                                                   | Item code       | Thread (d) | Hose ID (d1) | Pipe | PN |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|--------------|------|----|
|  <p>Material: Steel zinc plated<br/>Cone: 24°</p> | FNPA.1215.06-45 | M12x1,5    | 6            | 6L   | 25 |
|                                                                                                                                      | FNPA.1415.06-45 | M14x1,5    | 6            | 8L   | 25 |
|                                                                                                                                      |                 |            |              |      |    |
|                                                                                                                                      | FNPA.1615.10-45 | M16x1,5    | 10           | 10L  | 20 |
|                                                                                                                                      | FNPA.1815.10-45 | M18x1,5    | 10           | 12L  | 20 |
|                                                                                                                                      |                 |            |              |      |    |
|                                                                                                                                      | FNPA.2215.13-45 | M22x1,5    | 13           | 15L  | 16 |
|                                                                                                                                      | FNPA.2215.16-45 | M22x1,5    | 16           | 15L  | 16 |
|                                                                                                                                      | FNPA.2615.16-45 | M26x1,5    | 16           | 18L  | 16 |
|                                                                                                                                      | FNPA.3020.19-45 | M30x2,0    | 19           | 22L  | 12 |
|                                                                                                                                      | FNPA.3620.25-45 | M36x2,0    | 25           | 28L  | 12 |

| Clampless hose swivel connector with female thread                                                                                   | Item code       | Thread (d) | Hose ID (d1) | Pipe | PN |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|--------------|------|----|
|  <p>Material: Steel zinc plated<br/>Cone: 24°</p> | FNPA.1215.06-90 | M12x1,5    | 6            | 6L   | 25 |
|                                                                                                                                      | FNPA.1415.06-90 | M14x1,5    | 6            | 8L   | 25 |
|                                                                                                                                      | FNPA.1615.06-90 | M16x1,5    | 6            | 10L  | 25 |
|                                                                                                                                      | FNPA.1615.10-90 | M16x1,5    | 10           | 10L  | 20 |
|                                                                                                                                      | FNPA.1815.10-90 | M18x1,5    | 10           | 12L  | 20 |
|                                                                                                                                      |                 |            |              |      |    |
|                                                                                                                                      | FNPA.2215.13-90 | M22x1,5    | 13           | 15L  | 16 |
|                                                                                                                                      |                 |            |              |      |    |
|                                                                                                                                      | FNPA.2615.16-90 | M26x1,5    | 16           | 18L  | 16 |
|                                                                                                                                      | FNPA.3020.19-90 | M30x2,0    | 19           | 22L  | 12 |
|                                                                                                                                      | FNPA.3620.25-90 | M36x2,0    | 25           | 28L  | 12 |

| Item code   | Thread (d) | Hose ID (d1) |     | Metric-inch connector male thread                                                                                       |
|-------------|------------|--------------|-----|-------------------------------------------------------------------------------------------------------------------------|
| MMA 18.1215 | BSP 1/8"   | M12x1,5      | 6L  |  <p>Material: Steel zinc plated</p> |
| MMA 14.1215 | BSP 1/4"   | M12x1,5      | 6L  |                                                                                                                         |
| MMA 14.1415 | BSP 1/4"   | M14x1,5      | 8L  |                                                                                                                         |
| MMA 38.1415 | BSP 3/8"   | M14x1,5      | 8L  |                                                                                                                         |
| MMA 12.1415 | BSP 1/2"   | M14x1,5      | 8L  |                                                                                                                         |
| MMA 14.1615 | BSP 1/4"   | M16x1,5      | 10L |                                                                                                                         |
| MMA 38.1615 | BSP 3/8"   | M16x1,5      | 10L |                                                                                                                         |
| MMA 12.1615 | BSP 1/2"   | M16x1,5      | 10L |                                                                                                                         |
| MMA 14.1815 | BSP 1/4"   | M18x1,5      | 12L |                                                                                                                         |
| MMA 38.1815 | BSP 3/8"   | M18x1,5      | 12L |                                                                                                                         |
| MMA 12.1815 | BSP 1/2"   | M18x1,5      | 12L |                                                                                                                         |
| MMA 38.2215 | BSP 3/8"   | M22x1,5      | 15L |                                                                                                                         |
| MMA 12.2215 | BSP 1/2"   | M22x1,5      | 15L |                                                                                                                         |
| MMA 34.2215 | BSP 3/4"   | M22x1,5      | 15L |                                                                                                                         |
| MMA 12.2615 | BSP 1/2"   | M26x1,5      | 18L |                                                                                                                         |
| MMA 34.2615 | BSP 3/4"   | M26x1,5      | 18L |                                                                                                                         |
| MMA 12.3020 | BSP 1/2"   | M30x2,0      | 22L |                                                                                                                         |
| MMA 34.3020 | BSP 3/4"   | M30x2,0      | 22L |                                                                                                                         |
| MMA 10.3020 | BSP 1"     | M30x2,0      | 22L |                                                                                                                         |
| MMA 34.3620 | BSP 3/4"   | M36x2,0      | 28L |                                                                                                                         |
| MMA 10.3620 | BSP 1"     | M36x2,0      | 28L |                                                                                                                         |

### Mini ball valves with butterfly handle - brass



max. 90°C

Material:  
Body: Brass chrome plated  
Ball: Brass hard chrome plated  
Seals: PTFE / NBR

| Female        |               | Female - male |               | Thread   | Pressure |
|---------------|---------------|---------------|---------------|----------|----------|
| Red           | Blue          | Red           | Blue          |          |          |
| KH FF 18 KN R | KH FF 18 KN B | KH FM 18 KN R | KH FM 18 KN B | BSP 1/8" | 15       |
| KH FF 14 KN R | KH FF 14 KN B | KH FM 14 KN R | KH FM 14 KN B | BSP 1/4" | 15       |
| KH FF 38 KN R | KH FF 38 KN B | KH FM 38 KN R | KH FM 38 KN B | BSP 3/8" | 15       |
| KH FF 12 KN R | KH FF 12 KN B | KH FM 12 KN R | KH FM 12 KN B | BSP 1/2" | 15       |
| KH FF 34 KN R | KH FF 34 KN B | KH FM 34 KN R | KH FM 34 KN B | BSP 3/4" | 15       |

### Mini ball valves with butterfly handle - stainless steel

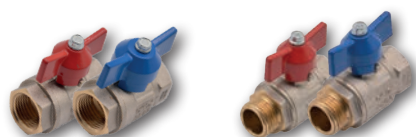


max. 200°C

Material:  
Body: Stainless steel 1.4408  
Ball: Stainless steel 1.4408  
Seal: PTFE / FKM

| Female           |                  | Female - male    |                  | Thread   | Pressure |
|------------------|------------------|------------------|------------------|----------|----------|
| Red              | Blue             | Red              | Blue             |          |          |
| KH FF 18 VA KN B | KH FF 18 VA KN R | KH FM 18 VA KN B | KH FM 18 VA KN R | BSP 1/8" | 63       |
| KH FF 14 VA KN B | KH FF 14 VA KN R | KH FM 14 VA KN B | KH FM 14 VA KN R | BSP 1/4" | 63       |
| KH FF 38 VA KN B | KH FF 38 VA KN R | KH FM 38 VA KN B | KH FM 38 VA KN R | BSP 3/8" | 63       |
| KH FF 12 VA KN B | KH FF 12 VA KN R | KH FM 12 VA KN B | KH FM 12 VA KN R | BSP 1/2" | 63       |
| KH FF 34 VA KN B | KH FF 34 VA KN R | KH FM 34 VA KN B | KH FM 34 VA KN R | BSP 3/4" | 63       |

### Ball valves with wing grip short version - brass



max. 150°C

Material:  
Body: Brass nickel plated  
Ball: Brass hard chrome plated  
Seals: PTFE / NBR

| Female         |                | Female - male  |                | Thread     | Pressure |
|----------------|----------------|----------------|----------------|------------|----------|
| Red            | Blue           | Red            | Blue           |            |          |
| KH FF 14 FG R  | KH FF 14 FG B  | KH FM 14 FG R  | KH FM 14 FG B  | BSP 1/4"   | 50       |
| KH FF 38 FG R  | KH FF 38 FG B  | KH FM 38 FG R  | KH FM 38 FG B  | BSP 3/8"   | 50       |
| KH FF 12 FG R  | KH FF 12 FG B  | KH FM 12 FG R  | KH FM 12 FG B  | BSP 1/2"   | 50       |
| KH FF 34 FG R  | KH FF 34 FG B  | KH FM 34 FG R  | KH FM 34 FG B  | BSP 3/4"   | 40       |
| KH FF 10 FG R  | KH FF 10 FG B  | KH FM 10 FG R  | KH FM 10 FG B  | BSP 1"     | 40       |
| KH FF 114 FG R | KH FF 114 FG B | KH FM 114 FG R | KH FM 114 FG B | BSP 1 1/4" | 30       |

### Ball valves with wing grip long version - brass



max. 150°C

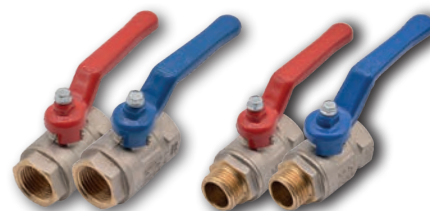
Material:  
Body: Brass nickel plated  
Ball: Brass hard chrome plated  
Seals: PTFE / NBR

| Female          |                 | Female - male   |                 | Thread | Pressure |
|-----------------|-----------------|-----------------|-----------------|--------|----------|
| Red             | Blue            | Red             | Blue            |        |          |
| KH FF 14 FG L R | KH FF 14 FG L B | KH FM 14 FG L R | KH FM 14 FG L B | R 1/4" | 50       |
| KH FF 38 FG L R | KH FF 38 FG L B | KH FM 38 FG L R | KH FM 38 FG L B | R 3/8" | 50       |
| KH FF 12 FG L R | KH FF 12 FG L B | KH FM 12 FG L R | KH FM 12 FG L B | R 1/2" | 50       |
| KH FF 34 FG L R | KH FF 34 FG L B | KH FM 34 FG L R | KH FM 34 FG L B | R 3/4" | 40       |
| KH FF 10 FG L R | KH FF 10 FG L B | KH FM 10 FG L R | KH FM 10 FG L B | R 1"   | 40       |

| Female         |                | Female - male  |                | Thread     | Pressure |
|----------------|----------------|----------------|----------------|------------|----------|
| Red            | Blue           | Red            | Blue           |            |          |
| KH FF 14 LG R  | KH FF 14 LG B  | KH FM 14 LG R  | KH FM 14 LG B  | BSP 1/4"   | 50       |
| KH FF 38 LG R  | KH FF 38 LG B  | KH FM 38 LG R  | KH FM 38 LG B  | BSP 3/8"   | 50       |
| KH FF 12 LG R  | KH FF 12 LG B  | KH FM 12 LG R  | KH FM 12 LG B  | BSP 1/2"   | 50       |
| KH FF 34 LG R  | KH FF 34 LG B  | KH FM 34 LG R  | KH FM 34 LG B  | BSP 3/4"   | 40       |
| KH FF 10 LG R  | KH FF 10 LG B  | KH FM 10 LG R  | KH FM 10 LG B  | BSP 1"     | 40       |
| KH FF 114 LG R | KH FF 114 LG B | KH FM 114 LG R | KH FM 114 LG B | BSP 1 1/4" | 30       |
| KH FF 112 LG R | KH FF 112 LG B | KH FM 112 LG R | KH FM 112 LG B | BSP 1 1/2" | 30       |
| KH FF 20 LG R  | KH FF 20 LG B  | KH FM 20 LG R  | KH FM 20 LG B  | BSP 2"     | 25       |
| KH FF 212 LG R | KH FF 212 LG B | KH FM 212 LG R | KH FM 212 LG B | BSP 2 1/2" | 18       |
| KH FF 30 LG R  | KH FF 30 LG B  | KH FM 30 LG R  | KH FM 20 LG B  | BSP 3"     | 16       |
| KH FF 40 LG R  | KH FF 40 LG B  | KH FM 40 LG R  | KH FM 40 LG B  | BSP 4"     | 14       |

Ball valve with standard handle short version - brass

max 150°C



Material:  
Body: Brass nickel plated  
Ball: Brass hard chrome plated  
Seals: PTFE / NBR

| Female           |                  | Female - male    |                  | Thread     | Pressure |
|------------------|------------------|------------------|------------------|------------|----------|
| Red              | Blue             | Red              | Blue             |            |          |
| KH FF 14 LG L R  | KH FF 14 LG L B  | KH FM 14 LG L R  | KH FM 14 LG L B  | R 1/4"     | 50       |
| KH FF 38 LG L R  | KH FF 38 LG L B  | KH FM 38 LG L R  | KH FM 38 LG L B  | R 3/8"     | 50       |
| KH FF 12 LG L R  | KH FF 12 LG L B  | KH FM 12 LG L R  | KH FM 12 LG L B  | R 1/2"     | 50       |
| KH FF 34 LG L R  | KH FF 34 LG L B  | KH FM 34 LG L R  | KH FM 34 LG L B  | R 3/4"     | 40       |
| KH FF 10 LG L R  | KH FF 10 LG L B  | KH FM 10 LG L R  | KH FM 10 LG L B  | R 1"       | 40       |
| KH FF 114 LG L R | KH FF 114 LG L B | KH FM 114 LG L R | KH FM 114 LG L B | R 1 1/4"   | 30       |
| KH FF 112 LG L R | KH FF 112 LG L B | KH FM 112 LG L R | KH FM 112 LG L B | R 1 1/2"   | 30       |
| KH FF 20 LG L R  | KH FF 20 LG L B  | KH FM 20 LG L R  | KH FM 20 LG L B  | R 2"       | 25       |
| KH FF 212 LG L R | KH FF 212 LG L B | KH FM 212 LG L R | KH FM 212 LG L B | BSP 2 1/2" | 18       |
| KH FF 30 LG L R  | KH FF 30 LG L B  | KH FM 30 LG L R  | KH FM 20 LG L B  | BSP 3"     | 16       |
| KH FF 40 LG L R  | KH FF 40 LG L B  | KH FM 40 LG L R  | KH FM 40 LG L B  | BSP 4"     | 14       |

Ball valve with standard handle long version - brass

max 150°C



Material:  
Body: Brass nickel plated  
Ball: Brass hard chrome plated  
Seals: PTFE / NBR

| Item code | Thread     |
|-----------|------------|
| FFT 18    | BSP 1/8"   |
| FFT 14    | BSP 1/4"   |
| FFT 38    | BSP 3/8"   |
| FFT 12    | BSP 1/2"   |
| FFT 34    | BSP 3/4"   |
| FFT 10    | BSP 1"     |
| FFT 114   | BSP 1 1/4" |
| FFT 112   | BSP 1 1/2" |
| FFT 20    | BSP 2"     |
| FFT 212   | BSP 2 1/2" |
| FFT 30    | BSP 3"     |
| FFT 40    | BSP 4"     |

T-connector with female thread forged



Material: Brass

| 2 ear hose clamps                                                                 | Steel    | Stainless steel | Clamping range | Width |
|-----------------------------------------------------------------------------------|----------|-----------------|----------------|-------|
|  | ZOS 5    | ZOS 5 IA        | 3,4 - 5        | 5     |
|                                                                                   | ZOS 7    | ZOS 7 IA        | 5 - 7          | 6     |
|                                                                                   | ZOS 9.4  |                 | 7 - 9          | 4     |
|                                                                                   | ZOS 9    | ZOS 9 IA        | 7 - 9          | 7     |
|                                                                                   | ZOS 11.3 |                 | 9 - 11         | 3     |
|                                                                                   | ZOS 11   | ZOS 11 IA       | 9 - 11         | 7     |
|                                                                                   | ZOS 13.4 | ZOS 13 IA       | 11 - 13        | 4     |
|                                                                                   | ZOS 13   |                 | 11 - 13        | 7     |
|                                                                                   | ZOS 15   | ZOS 15 IA       | 12,5 - 15      | 7,5   |
|                                                                                   | ZOS 17.4 |                 | 14 - 17        | 4     |
|                                                                                   | ZOS 17   | ZOS 17 IA       | 14 - 17        | 8     |
|                                                                                   | ZOS 18.4 |                 | 15 - 18        | 4     |
|                                                                                   | ZOS 20.4 |                 | 16 - 20        | 4     |
|                                                                                   | ZOS 20   | ZOS 20 IA       | 16 - 20        | 8,5   |
|                                                                                   | ZOS 22   | ZOS 22 IA       | 18 - 22        | 9     |
|                                                                                   | ZOS 23   | ZOS 23 IA       | 19 - 23        | 9     |
|                                                                                   | ZOS 25   | ZOS 25 IA       | 21 - 25        | 10    |
|                                                                                   | ZOS 28   | ZOS 28 IA       | 24 - 28        | 10    |
|                                                                                   | ZOS 31   | ZOS 31 IA       | 27 - 31        | 10    |
|                                                                                   | ZOS 34   | ZOS 34 IA       | 29,3 - 34      | 10    |
| Material: Steel zink plated / Stainless steel 1.4307                              | ZOS 37   | ZOS 37 IA       | 32 - 37        | 10    |
|                                                                                   | ZOS 40   | ZOS 40 IA       | 35 - 40        | 10    |
|                                                                                   | ZOS 43   | ZOS 43 IA       | 37,6 - 43      | 10    |
|                                                                                   |          |                 |                |       |

| 1 ear hose clamps                                                                   | Item code<br>without insert ring | Clamping range | Width | Item code<br>with insert ring | Clamping range | Width |
|-------------------------------------------------------------------------------------|----------------------------------|----------------|-------|-------------------------------|----------------|-------|
|  | EOS 3.3                          | 2,9 - 3,3      | 3     | EEOS 2.9                      | 2,5 - 2,9      | 5,5   |
|                                                                                     | EOS 4.1                          | 3,3 - 4,1      | 4     | EEOS 3.7                      | 2,9 - 3,7      | 5,5   |
|                                                                                     | EOS 5.1                          | 4,1 - 5,1      | 4     | EEOS 4.7                      | 3,7 - 4,7      | 5,5   |
|                                                                                     | EOS 6.1                          | 5,1 - 6,1      | 4     | EEOS 5.7                      | 4,7 - 5,7      | 5,5   |
|                                                                                     | EOS 7.1                          | 6,1 - 7,0      | 5     | EEOS 6.5                      | 5,6 - 6,5      | 6,4   |
|                                                                                     | EOS 8.1                          | 6,8 - 8,0      | 5     | EEOS 7.5                      | 6,4 - 7,5      | 6,4   |
|                                                                                     | EOS 9.5                          | 8,1 - 9,6      | 6     | EEOS 9                        | 7,5 - 9,0      | 7,5   |
|                                                                                     | EOS 10.5                         | 9,1 - 10,5     | 6     | EEOS 10.8                     | 9,1 - 10,8     | 7,4   |
|                                                                                     | EOS 11.8                         | 10,1 - 11,8    | 6     | EEOS 12.3                     | 10,3 - 12,3    | 7,4   |
|                                                                                     | EOS 12.8                         | 10,8 - 12,8    | 6     | EEOS 13.3                     | 11,3 - 13,3    | 8,2   |
|                                                                                     | EOS 13.8                         | 11,8 - 13,8    | 6     | EEOS 14.3                     | 12,3 - 14,3    | 9,2   |
|                                                                                     | EOS 15                           | 13,0 - 15,0    | 6     | EEOS 15.3                     | 13,1 - 15,3    | 8,2   |
|                                                                                     | EOS 16                           | 13,8 - 16,0    | 6     | EEOS 16.1                     | 13,9 - 16,1    | 6,2   |
|                                                                                     | EOS 16.8                         | 14,6 - 16,8    | 6     | EEOS 16.8                     | 14,6 - 16,8    | 8,2   |
|                                                                                     | EOS 17.5                         | 15,3 - 17,5    | 6     | EEOS 17.8                     | 15,6 - 17,8    | 8,2   |
|                                                                                     | EOS 19.5                         | 17,2 - 19,5    | 6     | EEOS 19.3                     | 17,1 - 19,3    | 9,2   |
|                                                                                     | EOS 21                           | 18,7 - 21,0    | 7     | EEOS 21.1                     | 18,8 - 21,1    | 9,2   |
|                                                                                     | EOS 21.8                         | 19,5 - 21,8    | 7     | EEOS 21.8                     | 19,2 - 21,8    | 9,2   |
|                                                                                     | EOS 23.5                         | 21,0 - 23,5    | 7     | EEOS 23.8                     | 21,0 - 23,8    | 9,2   |
|                                                                                     | EOS 26.3                         | 23,6 - 26,3    | 7     | EEOS 25.6                     | 23,0 - 25,6    | 9,2   |
| Material: Stainless steel 1.4310                                                    | EOS 27.1                         | 24,1 - 27,0    | 7     | EEOS 26.3                     | 23,3 - 26,3    | 9,2   |
|                                                                                     | EOS 30.7                         | 27,2 - 30,7    | 7     | EEOS 30                       | 26,5 - 30,0    | 9,2   |
|                                                                                     |                                  |                |       |                               |                |       |

| Steel  | Stainless steel | Clamping range | Width | Hose clamps                                                                          |
|--------|-----------------|----------------|-------|--------------------------------------------------------------------------------------|
| SS 12  | SS 12 IA        | 8 - 12         | 9     |  |
| SS 16  | SS 16 IA        | 10 - 16        | 9     |                                                                                      |
| SS 22  | SS 22 IA        | 12 - 22        | 9     |                                                                                      |
| SS 27  | SS 27 IA        | 16 - 27        | 9     |                                                                                      |
| SS 32  | SS 32 IA        | 20 - 32        | 9     |                                                                                      |
| SS 40  | SS 40 IA        | 25 - 40        | 9     |                                                                                      |
| SS 50  | SS 50 IA        | 35 - 50        | 9     |                                                                                      |
| SS 60  | SS 60 IA        | 60 - 60        | 9     |                                                                                      |
| SS 70  | SS 70 IA        | 50 - 70        | 9     |                                                                                      |
| SS 80  | SS 80 IA        | 60 - 80        | 9     |                                                                                      |
| SS 90  | SS 90 IA        | 70 - 90        | 9     |                                                                                      |
| SS 100 | SS 100 IA       | 80 - 100       | 9     |                                                                                      |
| SS 110 | SS 110 IA       | 90 - 110       | 9     |                                                                                      |

| Steel     | Stainless steel | Clamping range | Width |
|-----------|-----------------|----------------|-------|
| SS 27/12  | SS 27/12 IA     | 16 - 27        | 12    |
| SS 32/12  | SS 32/12 IA     | 20 - 32        | 12    |
| SS 40/12  | SS 40/12 IA     | 25 - 40        | 12    |
| SS 50/12  | SS 50/12 IA     | 35 - 50        | 12    |
| SS 60/12  | SS 60/12 IA     | 40 - 60        | 12    |
| SS 70/12  | SS 70/12 IA     | 50 - 70        | 12    |
| SS 80/12  | SS 80/12 IA     | 60 - 80        | 12    |
| SS 90/12  | SS 90/12 IA     | 70 - 90        | 12    |
| SS 100/12 | SS 100/12 IA    | 80 - 100       | 12    |
| SS 110/12 | SS 110/12 IA    | 90 - 110       | 12    |
| SS 130/12 | SS 130/12 IA    | 110 - 130      | 12    |
| SS 150/12 | SS 150/12 IA    | 130 - 150      | 12    |
| SS 170/12 | SS 170/12 IA    | 150 - 170      | 12    |
| SS 190/12 | SS 190/12 IA    | 170 - 190      |       |

Material: Steel zink plated / Stainless steel 1.4301

| Item code | Clamping range | Width | Item code | Clamping range | Width | Hinge bolt clamps                                                                     |
|-----------|----------------|-------|-----------|----------------|-------|---------------------------------------------------------------------------------------|
| GBS 19    | 17 - 19        | 18    | GBS 63    | 59 - 63        | 20    |  |
| GBS 21    | 19 - 21        | 18    | GBS 68    | 63 - 68        | 20    |                                                                                       |
| GBS 23    | 21 - 23        | 18    | GBS 73    | 68 - 73        | 25    |                                                                                       |
| GBS 25    | 23 - 25        | 18    | GBS 79    | 73 - 79        | 25    |                                                                                       |
| GBS 27    | 25 - 27        | 18    | GBS 85    | 79 - 85        | 25    |                                                                                       |
| GBS 29    | 27 - 29        | 18    | GBS 91    | 85 - 91        | 25    |                                                                                       |
| GBS 31    | 29 - 31        | 18    | GBS 97    | 91 - 97        | 25    |                                                                                       |
| GBS 34    | 31 - 34        | 18    | GBS 104   | 97 - 104       | 25    |                                                                                       |
| GBS 37    | 34 - 37        | 18    | GBS 112   | 104 - 112      | 25    |                                                                                       |
| GBS 40    | 37 - 40        | 18    | GBS 130   | 121 - 130      | 25    |                                                                                       |
| GBS 43    | 40 - 43        | 18    | GBS 140   | 130 - 140      | 30    |                                                                                       |
| GBS 47    | 43 - 47        | 20    | GBS 150   | 140 - 150      | 30    |                                                                                       |
| GBS 51    | 47 - 51        | 20    | GBS 162   | 150 - 162      | 30    |                                                                                       |
| GBS 55    | 51 - 55        | 20    | GBS 174   | 162 - 174      | 30    |                                                                                       |
| GSB 59    | 55 - 59        | 20    | GBS 187   | 174 - 187      | 30    |                                                                                       |

Material: Tape and housing: Stainless steel 1.4016  
Screw: Steel zink plated

| Clamping pliers for ear clamps                                                    | Item code | Description             |
|-----------------------------------------------------------------------------------|-----------|-------------------------|
|  | KZF EOS   | Clamping front          |
|                                                                                   | KZFS EOS  | Clamping front and side |

| Safety ring pliers (DIN 5256)                                                      | Item code | Description                   |
|------------------------------------------------------------------------------------|-----------|-------------------------------|
|  | SRZ A     | For outside rings / shafts    |
|                                                                                    | SRZ I     | For inside rings / bore holes |

| Hose cutter plier                                                                   | Item code | Description (hose outside diameter) |
|-------------------------------------------------------------------------------------|-----------|-------------------------------------|
|  | SAS 17    | 0 - 17 mm                           |
|                                                                                     | SAS 28    | 0 - 28 mm                           |

| Safety rings                                                                                                                     | Item code     | Diameter | Multicoupling series |
|----------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------------------|
|  <p>Material: Spring steel (phosphatised)</p> | SR DIN 471-16 | 16 mm    | HPT.06 / MPT.06      |
|                                                                                                                                  | SR DIN 471-19 | 19 mm    | HPT.09 / MPT.09      |
|                                                                                                                                  | SR DIN 471-21 | 21 mm    | MXT.09               |
|                                                                                                                                  | SR DIN 471-23 | 23 mm    | RPT.10               |
|                                                                                                                                  | SR DIN 471-24 | 24 mm    | MPT.12               |
|                                                                                                                                  | SR DIN 471-25 | 26 mm    | RPT.12               |
|                                                                                                                                  | SR DIN 471-38 | 38 mm    | L-Bush BG-1          |

| Steel     | Stainless steel | Clamping range | Width                       | Hose clamps                                                                                                                                                                                            |
|-----------|-----------------|----------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DB 121    | 0,10            | 12,0 mm        | 12                          |  <div>  max. <b>260°C</b> </div> |
| DB TFL B  | 0,10            | 12,7 mm        | 100 (<200°C)<br>16 (>200°C) |                                                                                                                                                                                                        |
| DB TFL    | 0,09            | 12,7 mm        | 200                         |                                                                                                                                                                                                        |
| DB TFL 13 | 0,09            | 12,7 mm        | 200                         |                                                                                                                                                                                                        |
| DB TFL 33 | 0,09            | 12, 7 mm       | 200                         |                                                                                                                                                                                                        |
|           |                 |                |                             |                                                                                                                                                                                                        |

| Item code  | Packing | Thread | Immediate tightness | Hardening-speed  | Beschreibung                                                                                                                                                                                                                           | Gewindedichtungen                                                                                                                                                                                        |
|------------|---------|--------|---------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LT 542/10  | 10      | 3/4"   | no                  | medium           | Thread sealant for highly stressed fine-threaded metal connections up to 3/4".                                                                                                                                                         |  <div>  max. <b>150°C</b> </div> |
| LT 542/50  | 25      |        |                     |                  | Suitable for use with liquids as well as in pneumatic and hydraulic systems. Applications include machine building, temperature control systems, the automotive industry, and agricultural and construction machinery. DVGW-certified. |                                                                                                                                                                                                          |
| LT 542/250 | 250     |        |                     |                  |                                                                                                                                                                                                                                        |                                                                                                                                                                                                          |
| LT 572/50  | 50      | 3"     | no                  | extremely slowly | Recommended for all metal coarse threads where delayed curing of the thread sealant is required.                                                                                                                                       |                                                                                                                                                                                                          |
| LT 572/250 | 250     |        |                     |                  |                                                                                                                                                                                                                                        |                                                                                                                                                                                                          |
| LT 577/ 50 | 50      | 3"     | yes                 | medium           | For securing and sealing metal pipe threads, especially for low-temperature applications, e.g., for maintenance work on industrial plants outdoors. BAM approved for use with oxygen up to 15 bar and 60 °C. DVGW approved up to 2"    |                                                                                                                                                                                                          |
| LT 577/250 | 250     |        |                     |                  |                                                                                                                                                                                                                                        |                                                                                                                                                                                                          |
| LT 5776/50 | 50      | 3"     | yes                 | quick            | Recommended for coarse metal threads, especially for applications requiring fast processing during outdoor maintenance work. DVGW approved.                                                                                            |                                                                                                                                                                                                          |

Material: Tape and housing: Stainless steel 1.4016  
Screw: Steel zink plated



# LINKING PRECISION WITH PERFORMANCE

## QUICK COUPLING SOLUTIONS

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