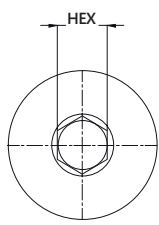
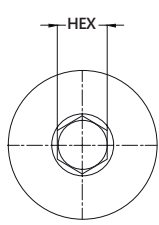


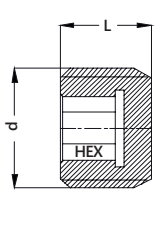
Accessories

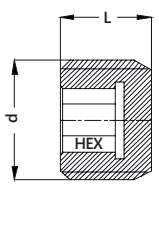


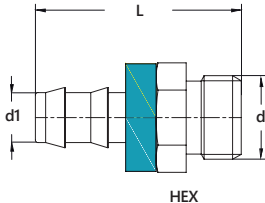
LINKING PRECISION WITH PERFORMANCE

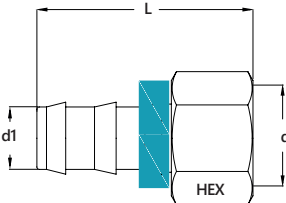
Item code	Thread (d)	L	HEX	Pressure plug with O-Ring
VSO 18	BSP 1/8"	9	5	 Material: Brass (MS 58) O-Ring: NBR DIN 908
VSO 14	BSP 1/4"	14	6	
VSO 38	BSP 3/8"	16	8	
VSO 12	BSP 1/2"	18	10	
VSO 34	BSP 3/4"	20	12	
VSO 10	BSP 1"	22	17	
VSO 114	BSP 1 1/4"	24	22	
VSO 112	BSP 1 1/2"	26	24	
VSO 20	BSP 2"	28	24	

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

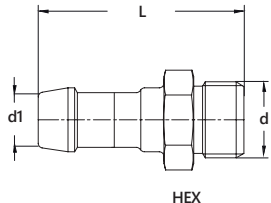
Item code	Thread (d)	L	HEX	Pressure plug with cylindrical BSP thread
VSG 18	BSP 1/8"	8	5	 Material: Brass (MS 58) DIN 906
VSG 14	BSP 1/4"	10	7	
VSG 38	BSP 3/8"	10	8	
VSG 12	BSP 1/2"	10	10	
VSG 34	BSP 3/4"	12	12	
VSG 10	BSP 1"	19	17	
VSG 114	BSP 1 1/4"	22	22	
VSG 112	BSP 1 1/2"	22	24	
VSG 20	BSP 2"	25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

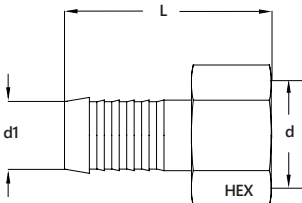
Item code	Thread (d)	L	HEX	Pressure plug with conical BSPT thread
VSР 18	BSP 1/8"	8	5	 Material: Brass (MS 58) DIN 906
VSР 14	BSP 1/4"	10	7	
VSР 38	BSP 3/8"	10	8	
VSР 12	BSP 1/2"	10	10	
VSР 34	BSP 3/4"	12	12	
VSР 10	BSP 1"	19	17	
VSР 114	BSP 1 1/4"	22	22	
VSР 112	BSP 1 1/2"	22	24	
VSР 20	BSP 2"	25	24	

Clampless hose connector with male thread	Item code	Thread (d)	Hose ID (d1)	L	HEX
 Material: Brass (MS 58) nickel plated	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 34.16	BSP 3/4"	16	62	30
	MPA 34.19	BSP 3/4"	19	62	30
	MPA 10.19	BSP 1"	19	70	35
	MPA 10.25	BSP 1"	25	70	35

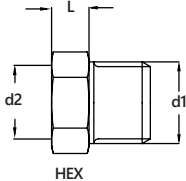
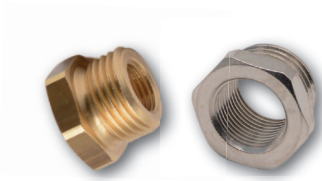
Clampless hose connector with male thread	Item code	Thread (d)	Hose ID (d1)	L	HEX
 Material: Brass (MS 58) nickel plated	FPA 18.06	BSP 1/8"	6	30	14
	FPA 18.10	BSP 1/8"	10	30	14
	FPA 14.06	BSP 1/4"	6	32	17
	FPA 14.10	BSP 1/4"	10	36	17
	FPA 14.13	BSP 1/4"	13	40	17
	FPA 38.10	BSP 3/8"	10	37	20
	FPA 38.13	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 34.16	BSP 3/4"	16	48	30
	FPA 34.19	BSP 3/4"	19	58	30

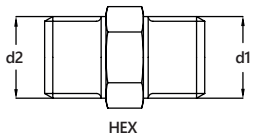
Hose connector	Item code	Hose ID
 Material: Brass (MS 58)	PPA 06	6
	PPA 10	10
	PPA 13	13
	PPA 16	16
	PPA 19	19
	PPA 25	25

Item code	Thread (d)	Hose ID (d1)	L	HEX	Standard hose connector with male thread
MHA 18.04	BSP 1/8"	4	43	14	 Material: Brass (MS 58) nickel plated
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	 Material: Brass (MS 58) nickel plated
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"	13	40	24	
FHA 34.16	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	 Material: Brass (MS 58)
HHA 06	6	
HHA 08	8	
HHA 09	9	
HHA 10	10	
HHA 13	13	
HHA 16	16	
HHA 19	19	
HHA 25	25	

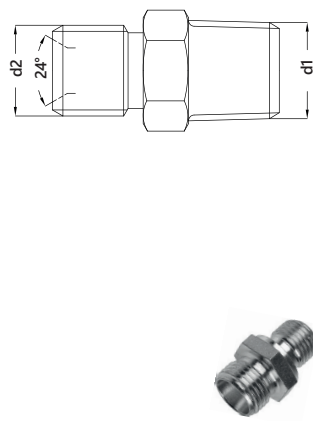
Male-female adapter	Brass	Brass nickel plated	Male thread (d1)	Female-thread (d2)	L	HEX
 	MFA 18.14	MFA 18.14 NV	BSP 1/8"	BSP 1/4"	18	17
	MFA 18.38	MFA 18.38 NV	BSP 1/8"	BSP 3/8"	19	19
		MFA 18.12 NV	BSP 1/8"	BSP 1/2"	18	24
	MFA 14.18	MFA 14.18 NV	BSP 1/4"	BSP 1/8"	4	17
	MFA 14.38	MFA 14.38 NV	BSP 1/4"	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 14.38 NV	BSP 1/4"	BSP 3/8"	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"	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 1 1/2"	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
 Material: Steel zinc plated Cone: 24°	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
 Material: Steel zinc plated Cone: 24°	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
 Material: Steel zinc plated Cone: 24°	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	 Material: Steel zinc plated
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

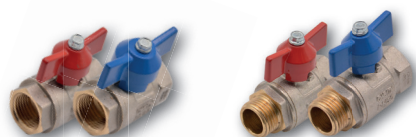


max. 200°C

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 R	KH FF 18 VA KN B	KH FM 18 VA KN R	KH FM 18 VA KN B	BSP 1/8"	63
KH FF 14 VA KN R	KH FF 14 VA KN B	KH FM 14 VA KN R	KH FM 14 VA KN B	BSP 1/4"	63
KH FF 38 VA KN R	KH FF 38 VA KN B	KH FM 38 VA KN R	KH FM 38 VA KN B	BSP 3/8"	63
KH FF 12 VA KN R	KH FF 12 VA KN B	KH FM 12 VA KN R	KH FM 12 VA KN B	BSP 1/2"	63
KH FF 34 VA KN R	KH FF 34 VA KN B	KH FM 34 VA KN R	KH FM 34 VA KN B	BSP 3/4"	63

Ball valves with wing grip short version - brass

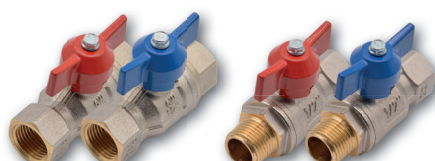


max. 150°C

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

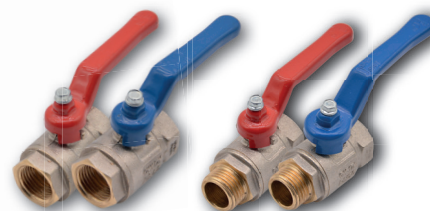
Material:
Body: Brass nickel plated
Ball: Brass hard chrome plated
Seals: PTFE / NBR

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	BSP 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	BSP 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	BSP 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	BSP 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	BSP 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 30 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

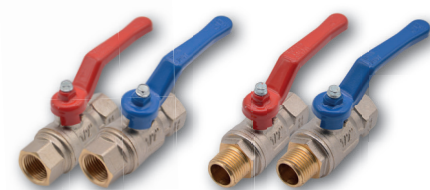


Material:
Body: Brass nickel plated
Ball: Brass hard chrome plated
Seals: PTFE / NBR

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 30 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		11 - 13	4
	ZOS 13	ZOS 13 IA	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 without insert ring	Clamping range	Width	Item code 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	40 - 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 121	112 - 121	25	
GBS 43	40 - 43	18	GBS 130	121 - 130	30	
GBS 47	43 - 47	20	GBS 140	130 - 140	30	
GBS 51	47 - 51	20	GBS 150	140 - 150	30	
GBS 55	51 - 55	20	GBS 162	150 - 162	30	
GBS 59	55 - 59	20	GBS 174	162 - 174	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
 Material: Spring steel (phosphatised)	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	25 mm	RPT.12
	SR DIN 471-38	38 mm	L-Bush BG-1

Steel	Stainless steel	Clamping range	Width
DB 121	0,10	12,0 mm	12
DB TFL B	0,10	12,7 mm	100 (<200°C) 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

Hose clamps

max 260°C



Item code	Packing	Thread	Immediate tightness	Hardening-speed	Beschreibung
LT 542/10	10	3/4"	no	medium	Thread sealant for highly stressed fine-threaded metal connections up to 3/4". 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 542/50	25				
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.

Gewindedichtungen

max 150°C



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

