



**Technical Description**

The couplings of the 6600 series meet the requirements and dimensions of the ISO 7241-1 A standard.

**Advantages**

NBR seals and back-up ring in PTFE to withstand flow surges at high flow rates. Single acting sleeve. Connection and disconnection are possible by pulling the sleeve. Poppet valving. Chrome 6 free plated steel.

**Applications**

- Used for a wide range of agricultural applications
- Mobile and construction equipment
- In-plant machinery including hydraulic power units and hand tools

**Working Pressure**

1/4"	350 bar
3/8"	280 bar
1/2"	280 bar
3/4"	280 bar
1"	280 bar

**Working Temperature**

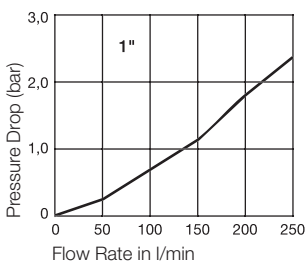
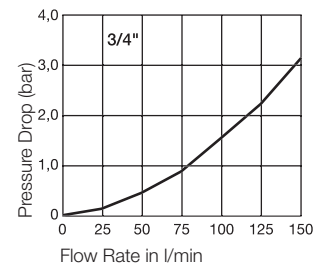
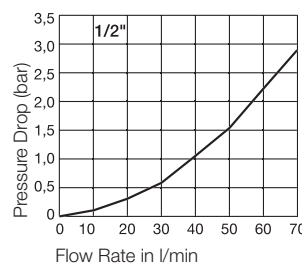
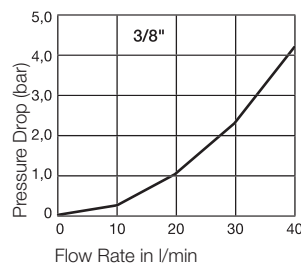
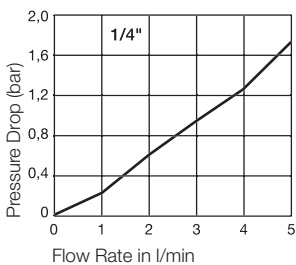
-40°C up to +110°C (NBR) depending on the medium. Special seals are available on request (see page 6).

**Applications Area**

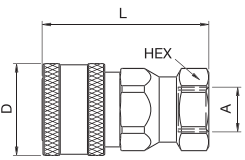


Material Coupling	Standard
Coupling Body	Steel
Sleeve	Steel
Back-up Ring	PTFE
Valve	Steel
Springs	Stainless Steel
Locking Balls	Steel
Seals	NBR
Valve Holder	Stainless Steel
Material Plug	Standard
Plug Body	Steel
Valve	Steel
Springs	Stainless Steel
Seals	NBR
Valve Holder	Stainless Steel

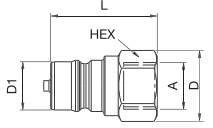
**Flow Capacity with Oil with Viscosity of 43cSt at 38°C as per ISO 7241/2-2000**



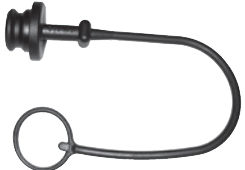
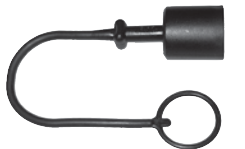
**Couplings****6600-Series**

	Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Weight gr.	Max. Operating Pressure	Part Number
 <p>Female BSPP Thread</p>	1/4"	1/4"	22	49	27		123	350 bar	6603-4-4
	3/8"	3/8"	27	56	31,8		180	280 bar	6603-6-6
	1/2"	1/2"	32	71	38,1		309	280 bar	6603-8-10
	3/4"	3/4"	41	85,5	47,6		624	280 bar	6603-12-12
	1"	1"	48	104	54		842	280 bar	6603-16-16

**Plugs****6600-Series**

	Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Weight gr.	Max. Operating Pressure	Part Number
 <p>Female BSPP Thread</p>	1/4"	1/4"	19	34,5	22	11,8	39	350 bar	6605-4-4
	3/8"	3/8"	22	38,1	25,5	17,2	55	280 bar	6605-6-6
	1/2"	1/2"	27	49,3	31	20,5	97	280 bar	6605-8-10
	3/4"	3/4"	35	57,9	40,3	29	217	280 bar	6605-12-12
	1"	1"	41	70,5	47,5	34,3	330	280 bar	6605-16-16

**Dust Protection****6600-Series**

	Body Size	Version	Color	Part Number
	1/4"	for coupling	Red	6659-4PL
	3/8"	for coupling	Red	6659-6PL
	1/2"	for coupling	Red	6659-8PL
	3/4"	for coupling	Red	6659-12PL
	1"	for coupling	Red	6659-16PL
	1/4"	for plug	Red	6657-4PL
	3/8"	for plug	Red	6657-6PL
	1/2"	for plug	Red	6657-8PL
	3/4"	for plug	Red	6657-12PL
	1"	for plug	Red	6657-16PL



Body Size

3/8" and 1/2"

ISO A-Profile

2000-Series

Medium Pressure



**Technical Description**

Meets the requirements of ISO 7241-1-A. Modular construction: broad choice of end configurations (variety of threads - BSPP and metric). Two valve options: Poppet or ball valving. Push-Pull connection- / disconnection.

**Advantages**

Can be connected with other products complying with the same standard. NBR seals and back-up ring in PTFE to

withstand flow surges at high flow rates. Double acting sleeve (Push-Pull). Ball or three-part poppet style valving with a molded shaped seal to prevent seal washout at high flow rates. Chrome 6 free plating.

**Applications**

- Used for a wide variety of agricultural applications
- Mobile and construction equipment
- Industrial equipment

**Working Pressure**

Poppet valve  
3/8" 300 bar  
1/2" 250 bar  
Ball valving  
1/2" 210 bar

**Working Temperature**

-25°C up to +110°C (NBR) depending on the medium.

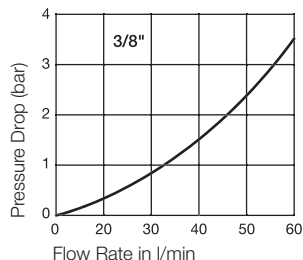
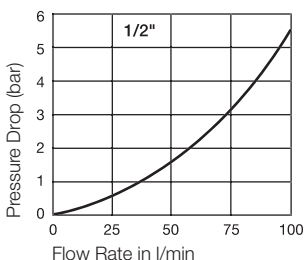
**Applications Area**

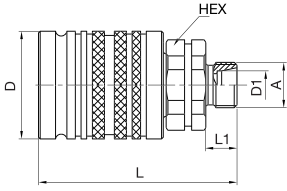
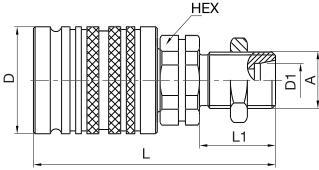
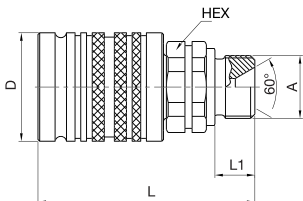
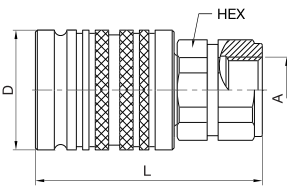


Material Coupling	Standard
Valve Body	Steel, silver plated
Sleeve	Steel, hardened, silver plated
Back-up Ring	Steel
Valve	Steel, silver plated
Springs	Steel
Locking Balls	Steel
Seals	NBR
Valve Holder	Steel
Back Body	Steel, silver plated
Material Plug	Standard
Plug Body	Steel hardened, silver plated
Valve	Steel, silver plated
Springs	Steel
Seals	NBR
Valve Holder	Steel, silver plated

**Flow Capacity with Oil with Viscosity of 43cSt at 38°C as per ISO 7241/2-2000**

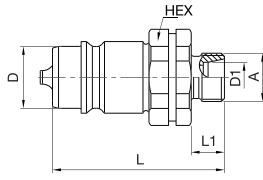
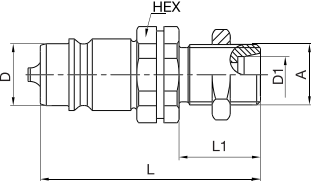
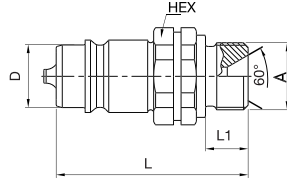
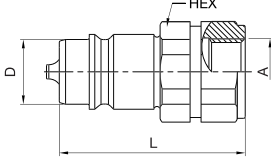
**Poppet Valving**









	Body Size	Connection A	Tube O/D D1/mm	Hex mm	L mm	L1 mm	D mm	Max. Operating Pressure in bar	Weight gr.	Version	Part Number
 <p>Male thread 24° cone – DIN 2353</p>	3/8"	M 14 x 1,5	8	22	62	12	32	315	194	Light	4V53D6X2-D
	3/8"	M 16 x 1,5	10	22	62	12	32	315	196	Light	4V53D6X3-D
	3/8"	M 18 x 1,5	10	22	62	12	32	315	201	Heavy	4V53D7X3-D
	1/2"	M 14 x 1,5									Not continued
	1/2"	M 16 x 1,5	10	27	73,5	12	38	250	286	Light	4V54D6X3-D
	1/2"	M 18 x 1,5	12	27	73,5	12	38	250	288	Light	4V54D6X4-D
	1/2"	M 22 x 1,5	15	27	75,5	14	38	250	290	Light	4V54D6X5-D
	1/2"	M 26 x 1,5	18	27	75,5	14	38	250	294	Light	4V54D6X6-D
	1/2"	M 18 x 1,5	10	27	73,5	12	38	250	289	Heavy	4V54D7X3-D
	1/2"	M 24 x 1,5	16	27	75,5	14	38	250	295	Heavy	4V54D7X6-D
 <p>Male thread 24° cone – DIN 2353 Bulkhead</p>	3/8"	M 16 x 1,5	10	22	76	26	32	315		Light	4V53E6X3-D
	1/2"	M 14 x 1,5	8	27	87	26	38	250	303	Light	4V54E6X2-D
	1/2"	M 16 x 1,5	10	27	87	26	38	250	320	Light	4V54E6X3-D
	1/2"	M 18 x 1,5	12	27	87	26	38	250	320	Light	4V54E6X4-D
	1/2"	M 22 x 1,5	15	27	89	28	38	250	329	Light	4V54E6X5-D
	1/2"	M 26 x 1,5	18	27	89	28	38	250	334	Light	4V54E6X6-D
	1/2"	M 18 x 1,5									Not continued
	1/2"	M 20 x 1,5	12	27	87	26	38	250	330	Heavy	4V54E7X4-D
	1/2"	M 24 x 1,5	16	27	89	28	38	250	340	Heavy	4V54E7X6-D
 <p>Male thread BSPP – DIN 3852 Form B</p>	3/8"	3/8"		22	63	13	32	315			4V53F4B3-D
	1/2"	3/8"		27	74,5	13	38	250	288		4V54F4B3-D
	1/2"	1/2"		27	75,5	14	38	250	290		4V54F4B4-D
 <p>Female thread – DIN 3852 Form Y</p>	3/8"	3/8"		22	63		32	315			4V53G4X3-D
	1/2"	3/8"		27	66		38	250	288		4V54G4X3-D
	1/2"	1/2"		27	66		38	250	271		4V54G4X4-D
	1/2"	1/2"									Not continued
	1/2"	3/4"		32	68		38	250	315		4V54G4X6-D
	1/2"	M 18 x 1,5		27	66		38	250	271		4V54G8X5-D
	1/2"	M 22 x 1,5		27	66		38	250	271		4V54G8X6-D
	1/2"	3/4 UNF		27	98	36,6	38	250			4V54T5X4-D
	1/2"	7/8 UNF		27	101	40,1	38	250			4V54T5X5-D
	1/2"	1/2" NPT									Not continued

# Plugs

# 2000-Series

	Body Size	Connection A	Tube O/D D1/mm	Hex mm	L mm	L1 mm	D mm	Max. Operating Pressure in bar	Weight gr.	Version	Part Number
 <p>Male thread 24° cone – DIN 2353</p>	3/8"	M 14 x 1,5									Not continued
	3/8"	M 16 x 1,5	10	27	52	12	17,3	315	101	Light	4V13D6X3-D
	3/8"	M 18 x 1,5									Not continued
	1/2"	M 14 x 1,5	8	27	58,5	12	20,5	250	109	Light	4V14D6X2-D
	1/2"	M 16 x 1,5	10	27	58,5	12	20,5	250	115	Light	4V14D6X3-D
	1/2"	M 18 x 1,5	12	27	58,5	12	20,5	250	118	Light	4V14D6X4-D
	1/2"	M 22 x 1,5	15	27	60,5	14	20,5	250	124	Light	4V14D6X5-D
	1/2"	M 26 x 1,5	18	27	60,5	14	20,5	250	126	Light	4V14D6X6-D
	1/2"	M 18 x 1,5	10	27	58,5	12	20,5	250	114	Heavy	4V14D7X3-D
	1/2"	M 24 x 1,5	16	27	60,5	14	20,5	250	125	Heavy	4V14D7X6-D
 <p>Male thread 24° cone – DIN 2353 Bulkhead</p>	3/8"	M 16 x 1,5	10	27	66	26	17,3	315		Light	4V13E6X3-D
	1/2"	M 14 x 1,5									Not continued
	1/2"	M 16 x 1,5	10	27	72	26	20,5	250	140	Light	4V14E6X3-D
	1/2"	M 18 x 1,5	12	27	72	26	20,5	250	140	Light	4V14E6X4-D
	1/2"	M 22 x 1,5	15	27	74	28	20,5	250	156	Light	4V14E6X5-D
	1/2"	M 26 x 1,5	18	27	74	28	20,5	250	173	Light	4V14E6X6-D
	1/2"	M 18 x 1,5	10	27	72	26	20,5	250	140	Heavy	4V14E7X3-D
	1/2"	M 20 x 1,5	12	27	72	26	20,5	250	158	Heavy	4V14E7X4-D
1/2"	M 24 x 1,5	16	27	74	28	20,5	250	168	Heavy	4V14E7X6-D	
 <p>Male thread BSPP – DIN 3852 Form B</p>	3/8"	3/8"		27	53	13	17,3	315	102		4V13F4B3-D
	1/2"	3/8"		27	59,5	13	20,5	250	113		4V14F4B3-D
	1/2"	1/2"		27	60,5	14	20,5	250	122		4V14F4B4-D
 <p>Female thread – DIN 3852 Form Y</p>	3/8"	3/8"		22	36,5		17,3	315	48		4V13G4X3-D
	1/2"	3/8"		27	61,5		20,5	250	149		4V14G4X3-D
	1/2"	1/2"		27	43,5		20,5	250	82		4V14G4X4-D
	1/2"	1/2"									Not continued
	1/2"	3/4"		32	63,5		20,5	250	192		4V14G4X6-D
	1/2"	M 18 x 1,5									Not continued
	1/2"	M 22 x 1,5		27	43,5		20,5	250	77		4V14G8X6-D
1/2"	1/2" NPT										Not continued

	Body Size	Version	Material	Color	Part Number
	3/8"	for coupling	Plastic	red	5025-3PR
	1/2"	for coupling	Plastic	see color code	5025-4P <sup>1</sup>
	3/8"	for plug	Plastic	red	5029-3PR
	1/2"	for plug	Plastic	see color code	5029-4P <sup>1</sup>
	1/2"	for coupling	Rubber	black	5205-4M
	1/2"	for plug	Rubber	black	5209-4M
	1/2"	for coupling	Steel		5005-4
	1/2"	for plug	Steel		5009-4

<sup>1</sup> Color code: B = blue/ G = green/ R = red/ O = orange/ Y = yellow/ BL = black



Body Size

1/2"

ISO A-Profile

# RSD-Series

Medium Pressure



### Technical Description

The RSD series has been manufactured according to the regulations and dimensions of the standard specification ISO 7241-1 A series and can be connected with other series complying with the same standard.

### Advantages

Our one hand operated push-pull version serve to prevent leakage and destruction of the hydraulic hoses by automatic disconnection in case of accidental traction on the hose. The integrated detent system prevents circuit shut off in back-flow condition (> 240 l/min - direction male to female). The connection can be done under full system pressure in the plug.

### Working Pressure

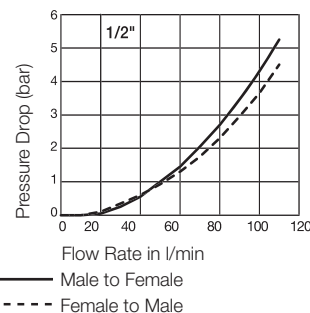
See charts.

### Working Temperature

-30°C up to +110°C (NBR) depending on the medium. Special seals are available on request (see page 6).

Material Coupling	Standard
Coupling Body	Chrome VI free Plated Steel
Sleeve	Chrome VI free Plated Steel
Valve	Chrome VI free Plated Steel
Springs	Steel
Locking Balls	Steel
Seals	Composite
Valve Holder	Composite

### Flow Capacity with Oil with Viscosity of 43cSt at 38°C as per ISO 7241/2-2000

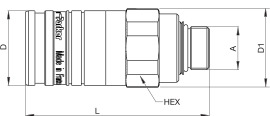
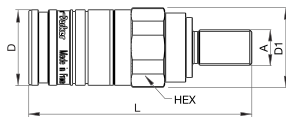
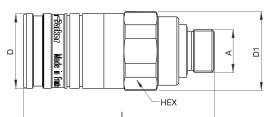


### Applications Area



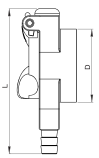
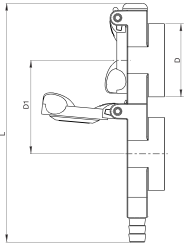
## Couplings

## RSD-Series

	Body Size	Connection A	Hex mm	L mm	D mm	D1 mm	Working Pressure in bar	Weight gr.	Version	Part Number
 Male Thread ISO 6149-2	1/2"	M 22 x 1,5	38	94,5	38	40	250	459		RSD-501-22MM-F
 Male thread 24° cone – DIN 2353 Bulkhead	1/2"	M 18 x 1,5	38	110	38	40	250	490	Light	RSD-501-18BMCL-F
	1/2"	M 22 x 1,5	38	110	38	40	250	510	Light	RSD-501-22BMCL-F
 Male Thread ISO 9974-2 with ED-Seal	1/2"	M 22 x 1,5	38	97,5	38	40	250	480		RSD-501-22MME-F


## Dust Protection

## RSD-Series

	Body Size	Version	L mm	D mm	D1 mm	Material	Color	Part Number
	1/2"	Single Dust Cap	85	43		PA6-6	Black	DCP-500 <sup>1</sup>
	1/2"	Double Dust Cap	140	43	55	PA6-6	Black	DCP-555 <sup>1</sup>
	1/2"	Double Dust Cap	157	43	72	PA6-6	Black	DCP-572 <sup>1</sup>
	1/2"	Double Dust Cap	167	43	82	PA6-6	Black	DCP-582 <sup>1</sup>

## Colored Caps for Dust Protection


## RSD-Series

	Body Size	Version	L mm	D mm	D1 mm	Material	Color	Part Number
						PA6-6	Red	9809-018-R
						PA6-6	Yellow	9809-018-J
						PA6-6	Black	9809-018-N
						PA6-6	Green	9809-018-V
						PA6-6	Blue	9809-018-B

<sup>1</sup> Colored caps are not included in the single and double dust caps but have to be ordered separately.

## Seal-Kit

## RSD-Series

	Body Size	Version	Material	Part Number
	1/2"	for RSD coupling	NBR	





Body Size

1/8" up to 2 1/2"

ISO B-Profile

60-Series

Medium Pressure



**Working Pressure**

**Low Cycle, non-pulsating pressure rating**

Body Size	Steel	Stainl. Steel	Brass
1/8"	350 bar	350 bar	210 bar
1/4"	350 bar	350 bar	255 bar
3/8"	280 bar	350 bar	185 bar
1/2"	280 bar	350 bar	240 bar
3/4"	175 bar	210 bar	150 bar
1"	140 bar	210 bar	105 bar
1 1/2"	105 bar	105 bar	105 bar
2 1/2"	105 bar	-	85 bar

**ANSI/ISO Pressure Rating**

Body Size	Steel	Stainl. Steel	Brass
1/8"	350 bar	140 bar	70 bar
1/4"	350 bar	140 bar	70 bar
3/8"	280 bar	105 bar	70 bar
1/2"	280 bar	105 bar	70 bar
3/4"	175 bar	105 bar	70 bar
1"	140 bar	70 bar	70 bar
1 1/2"	70 bar	70 bar	55 bar
2 1/2"	70 bar	-	55 bar

**Technical Description**

The 60 series plug profiles conform to ISO Standard 7241-1 series B and are compatible with other series complying with the same standard.

**Advantages**

A poppet with crimped seal assures a maximum sealing at low flow rates and prevents seal washout at high flow rates. A large number of locking balls distribute the work load evenly while providing alignment for the two parts of the coupling. Steel versions feature PTFE back-up ring which prevents seal damage for high pressure applications. Brass couplers have a double O-ring seal for redundancy in low pressure and vacuum applications.

**Sleeve-Lock:**

60 series couplers are available with safety locking sleeves. Please add the suffix **SL** to the part number, e.g. **H3-62-SL**.

**Working Temperature**

-40°C up to +110°C (NBR)  
-20°C up to +200°C (FKM)  
depending on the medium. Special seals are available on request (see page 6).

**Heavy Duty Nipples**

Parker 60 series heavy duty nipples are recommended for extended life in applications where high cycle rates and pressure surges are encountered. Machined from high tensile steel and specially hardened.

To specify a heavy duty nipple, add the prefix **HD** to the steel series part number, thus: **HDH2-63**.

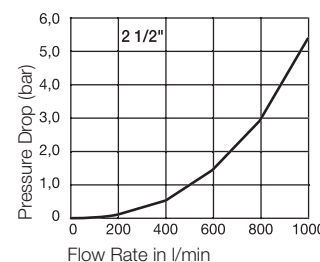
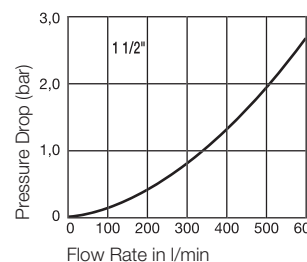
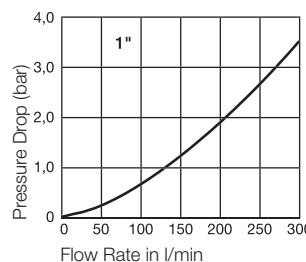
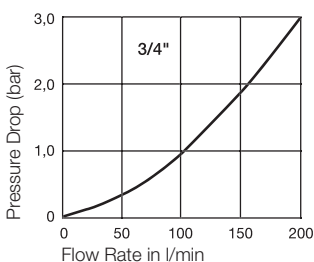
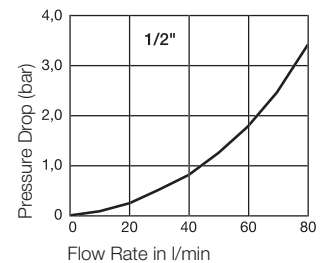
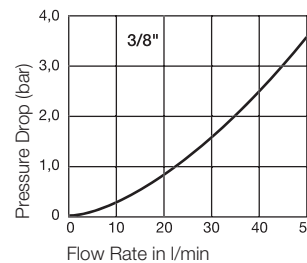
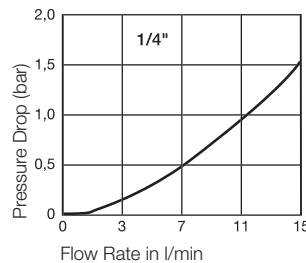
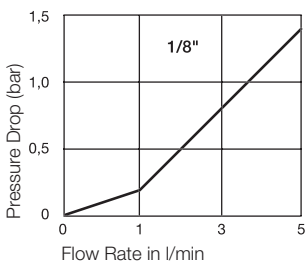
**Applications**

- Semiconductor industry, steel manufacturing
- Pneumatic and hydraulic hand tools
- Food and bottling industry
- Boating, shipbuilding and offshore industry
- Pharmaceutical industry, laboratories
- Transport
- Power generation plants, hydroelectric power stations

Material Coupling	Brass	Steel	AISI 303	AISI 316
Coupling Body	Brass	Steel	AISI 303	AISI 316
Sleeve	Brass	Steel	AISI 303	AISI 316
Back-up Ring	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Valve	Brass	Steel	AISI 303	AISI 316
Springs	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Locking Balls	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Seals	NBR	NBR	NBR	FKM
Valve Holder	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Thread Body	Brass	Steel	AISI 303	AISI 316

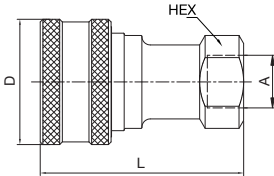
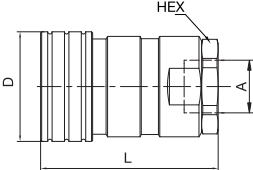
Material Plug	Brass	Steel	AISI 303	AISI 316
Plug Body	Brass	Steel	AISI 303	AISI 316
Valve	Brass	Steel	AISI 303	AISI 316
Springs	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Seals	NBR	NBR	NBR	FKM
Valve Holder	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Thread Body	Brass	Steel	AISI 303	AISI 316

**Flow Capacity with Oil with Viscosity of 43cSt at 38°C as per ISO 7241/2-2000**



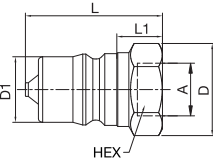
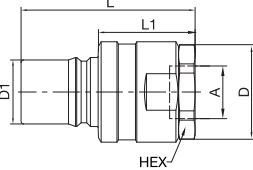
# Couplings

# 60-Series Brass

	Body Size	Connection A	Thread	Hex	L mm	L1 mm	D mm	D1 mm	Version	Weight gr.	Part Number
 <p>Female Thread</p>	1/8"	1/8"	BSPP	11/16"	48,3		24,4		Brass	87	BH1-60-BSPP
	1/8"	1/8" - 27	NPTF	11/16"	48,3		24,4		Brass	80	BH1-60
	1/4"	1/4"	BSPP	13/16"	61,2		29		Brass	158	BH2-60-BSPP
	1/4"	1/4" - 18	NPTF	13/16"	57,4		29		Brass	145	BH2-60
	3/8"	3/8"	BSPP	1"	69,9		35,6		Brass	260	BH3-60-BSPP
	3/8"	3/8" - 18	NPTF	7/8"	63,2		35,4		Brass	195	BH3-60
	1/2"	1/2"	BSPP	1 1/8"	77,5		45		Brass	383	BH4-60-BSPP
	1/2"	1/2" - 14	NPTF	1 1/8"	72,9		45		Brass	365	BH4-60
	3/4"	3/4"	BSPP	1 5/16"	93,2		54,4		Brass	642	BH6-60-BSPP
	3/4"	3/4" - 14	NPTF	1 5/16"	90,4		54,4		Brass	630	BH6-60
	1"	1"	BSPP	1 5/8"	106,2		64		Brass	970	BH8-60-BSPP
	1"	1" - 11 1/2	NPTF	1 5/8"	106,2		64		Brass	980	BH8-60
 <p>Female Thread</p>	1 1/2"	1 1/4"	BSPP	2 3/8"	123,4		76,2		Brass	2145	BH12-60L-BSPP
	1 1/2"	1 1/2"	BSPP	2 3/8"	127,3		76,2		Brass	2130	BH12-60N-BSPP
	1 1/2"	1 1/4" - 11 1/2	NPTF	2 3/8"	123,4		76,2		Brass	2080	BH12-60L
	1 1/2"	1 1/2" - 11 1/2	NPTF	2 3/8"	123,4		76,2		Brass	2080	BH12-60N
	2 1/2"	2"	BSPP	3 3/4"	145		101,1		Brass	5500	BH2016-60-BSPP
	2 1/2"	2" - 11 1/2	NPTF	3 3/4"	141,5		101,1		Brass	5015	BH2016-60

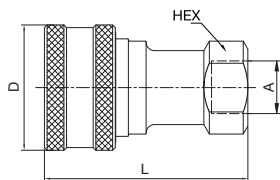
# Plugs

# 60-Series Brass

	Body Size	Connection A	Thread	Hex	L mm	L1 mm	D mm	D1 mm	Version	Weight gr.	Part Number
 <p>Female Thread</p>	1/8"	1/8"	BSPP	9/16"	32	10,5	16,4	10,8	Brass	19	BH1-61-BSPP
	1/8"	1/8" - 27	NPTF	9/16"	32	11,2	16,5	10,8	Brass	19	BH1-61
	1/4"	1/4"	BSPP	3/4"	42,9	16,6	21,9	14,2	Brass	45	BH2-61-BSPP
	1/4"	1/4" - 18	NPTF	3/4"	39,1	14	21,9	14,2	Brass	46	BH2-61
	3/8"	3/8"	BSPP	7/8"	49,3	19,7	25,7	19,1	Brass	74	BH3-61-BSPP
	3/8"	3/8" - 18	NPTF	7/8"	42,7	13,1	25,6	19,1	Brass	62	BH3-61
	1/2"	1/2"	BSPP	1 1/8"	54,1	21,1	32,9	23,5	Brass	131	BH4-61-BSPP
	1/2"	1/2" - 14	NPTF	1 1/8"	49,3	17,5	33	23,5	Brass	118	BH4-61
	3/4"	3/4"	BSPP	1 3/8"	64,5	21,9	40,3	31,4	Brass	235	BH6-61-BSPP
	3/4"	3/4" - 14	NPTF	1 3/8"	61,7	20,1	40,3	31,4	Brass	229	BH6-61
	1"	1"	BSPP	1 5/8"	73,8	25,2	47,2	37,7	Brass	368	BH8-61-BSPP
	1"	1" - 11 1/2	NPTF	1 5/8"	73,9	33,4	47,8	37,7	Brass	378	BH8-61
 <p>Female Thread</p>	1 1/2"	1 1/4"	BSPP	2 3/8"	120,9	67,5	74,7	44,5	Brass	1450	BH12-61L-BSPP
	1 1/2"	1 1/2"	BSPP	2 3/8"	124,7	67,5	74,7	44,5	Brass	1450	BH12-61N-BSPP
	1 1/2"	1 1/4" - 11 1/2	NPTF	2 3/8"	120,9	67,3	69,9	44,5	Brass	1340	BH12-61L
	1 1/2"	1 1/2" - 11 1/2	NPTF	2 3/8"	120,9	67,3	69,9	44,5	Brass	1340	BH12-61N
	2 1/2"	2"	BSPP	3 3/4"	142,7	77,3	104,1	63,2	Brass	3855	BH2016-61-BSPP
	2 1/2"	2" - 11 1/2	NPTF	3 3/4"	139,2	73,7	104,1	63,2	Brass	3530	BH2016-61

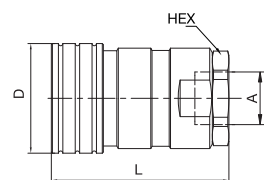
## Couplings

## 60-Series Steel



Female Thread

Body Size	Connection A	Thread	Hex	L mm	L1 mm	D mm	D1 mm	Version	Weight gr.	Part Number
1/8"	1/8"	BSPP	11/16"	48,3		24,4		Steel	81	H1-62-BSPP
1/8"	1/8" - 27	NPTF	11/16"	48,3		24,4		Steel	81	H1-62
1/4"	1/4"	BSPP	13/16"	61,2		29,0		Steel	130	H2-62-BSPP
1/4"	1/4" - 18	NPTF	13/16"	57,4		29,0		Steel	138	H2-62
3/8"	3/8"	BSPP	1"	69,9		35,6		Steel	241	H3-62-BSPP
3/8"	3/8" - 18	NPTF	7/8"	63,2		35,4		Steel	184	H3-62
1/2"	1/2"	BSPP	1 1/8"	77,5		45,0		Steel	360	H4-62-BSPP
1/2"	1/2" - 14	NPTF	1 1/8"	72,9		45,0		Steel	341	H4-62
3/4"	3/4"	BSPP	1 5/16"	93,2		54,4		Steel	602	H6-62-BSPP
3/4"	3/4" - 14	NPTF	1 5/16"	90,4		54,4		Steel	592	H6-62
1"	1"	BSPP	1 5/8"	106,2		64,0		Steel	906	H8-62-BSPP
1"	1" - 11 1/2	NPTF	1 5/8"	106,2		64,0		Steel	914	H8-62

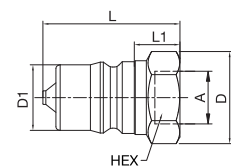


Female Thread

1 1/2"	1 1/4"	BSPP	2 3/8"	123,4		76,2		Steel	2135	H12-62L-BSPP
1 1/2"	1 1/2"	BSPP	2 3/8"	127,3		76,2		Steel	2060	H12-62N-BSPP
1 1/2"	1 1/4" - 11 1/2	NPTF	2 3/8"	123,4		76,2		Steel	2130	H12-62L
1 1/2"	1 1/2" - 11 1/2	NPTF	2 3/8"	123,4		76,2		Steel	2130	H12-62N
2 1/2"	2"	BSPP	3 3/4"	145		104,1		Steel	4800	H2016-62-BSPP
2 1/2"	2" - 11 1/2	NPTF	3 3/4"	141,5		104,1		Steel	4800	H2016-62
2 1/2"	2 1/2" - 8	NPTF	3 3/4"	153,4		104,1		Steel	4950	H2020-62

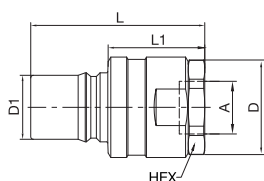
## Plugs

## 60-Series Steel



Female Thread

Body Size	Connection A	Thread	Hex	L mm	L1 mm	D mm	D1 mm	Version	Weight gr.	Part Number
1/8"	1/8"	BSPP	9/16"	32	10,5	16,4	10,8	Steel	18	H1-63-BSPP
1/8"	1/8" - 27	NPTF	9/16"	32,0	11,2	16,5	10,8	Steel	18	H1-63
1/4"	1/4"	BSPP	3/4"	42,9	16,6	21,9	14,2	Steel	38	H2-63-BSPP
1/4"	1/4" - 18	NPTF	3/4"	39,1	14,0	21,9	14,2	Steel	36	H2-63
3/8"	3/8"	BSPP	7/8"	49,3	19,7	25,7	19,1	Steel	68	H3-63-BSPP
3/8"	3/8" - 18	NPTF	7/8"	42,7	13,1	25,6	19,1	Steel	56	H3-63
1/2"	1/2"	BSPP	1 1/8"	54,1	21,1	32,9	23,5	Steel	122	H4-63-BSPP
1/2"	1/2" - 14	NPTF	1 1/8"	49,3	17,5	33	23,5	Steel	109	H4-63
3/4"	3/4"	BSPP	1 3/8"	64,5	21,9	40,3	31,4	Steel	217	H6-63-BSPP
3/4"	3/4" - 14	NPTF	1 3/8"	61,7	20,1	40,3	31,4	Steel	210	H6-63
1"	1"	BSPP	1 5/8"	73,8	25,2	47,2	37,7	Steel	340	H8-63-BSPP
1"	1" - 11 1/2	NPTF	1 5/8"	73,9	33,4	47,8	37,7	Steel	351	H8-63



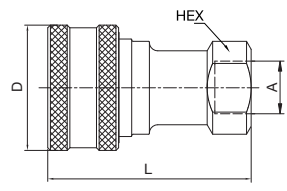
Female Thread

1 1/2"	1 1/4"	BSPP	2 3/8"	120,9	67,5	69,9	44,5	Steel	1410	H12-63L-BSPP
1 1/2"	1 1/2"	BSPP	2 3/8"	124,7	71,1	69,9	44,5	Steel	1280	H12-63N-BSPP
1 1/2"	1 1/4" - 11 1/2	NPTF	2 3/8"	120,9	67,3	69,9	44,5	Steel	1365	H12-63L
1 1/2"	1 1/2" - 11 1/2	NPTF	2 3/8"	120,9	67,3	69,9	44,5	Steel	1405	H12-63N
2 1/2"	2"	BSPP	3 3/4"	142,7	69,4	104,1	63,2	Steel	3580	H2016-63-BSPP
2 1/2"	2" - 11 1/2	NPTF	3 3/4"	139,2	65,9	104,1	63,2	Steel	3580	H2016-63
2 1/2"	2 1/2" - 8	NPTF	3 3/4"	151,1	83,4	104,1	63,2	Steel	3700	H2020-63

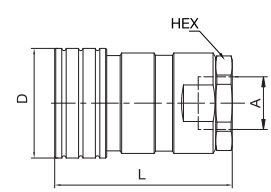
## Couplings

## 60-Series Stainless Steel

Body Size	Connection A	Thread	Hex	L mm	L1 mm	D mm	D1 mm	Version	Weight gr.	Part Number
1/8"	1/8"	BSPP	11/16"	48,3		24,4		AISI 303	81	SH1-62-BSPP
1/8"	1/8"	BSPP	14 mm	48,3		24,0		AISI 316	74	SSH1-62Y-BSPP*
1/8"	1/8" - 27	NPTF	11/16"	48,3		24,4		AISI 303	81	SH1-62
1/8"	1/8" - 27	NPTF	11/16"	48,3		24,4		AISI 316	74	SSH1-62Y*
1/4"	1/4"	BSPP	19 mm	61,2		29,0		AISI 303	129	SH2-62-BSPP
1/4"	1/4"	BSPP	13/16"	61,2		29,0		AISI 316	132	SSH2-62Y-BSPP*
1/4"	1/4" - 18	NPTF	13/16"	57,4		29,0		AISI 303	128	SH2-62
1/4"	1/4" - 18	NPTF	13/16"	57,4		29,0		AISI 316	138	SSH2-62Y*
3/8"	3/8"	BSPP	1"	69,9		35,6		AISI 303	245	SH3-62-BSPP
3/8"	3/8"	BSPP	1"	69,9		35,6		AISI 316	187	SSH3-62Y-BSPP*
3/8"	3/8" - 18	NPTF	7/8"	63,2		35,4		AISI 303	186	SH3-62
3/8"	3/8" - 18	NPTF	7/8"	63,2		35,4		AISI 316	180	SSH3-62Y*
1/2"	1/2"	BSPP	1 1/8"	77,5		45,0		AISI 303	360	SH4-62-BSPP
1/2"	1/2"	BSPP	1 1/8"	77,5		45,0		AISI 316	367	SSH4-62Y-BSPP*
1/2"	1/2" - 14	NPTF	1 1/8"	72,9		45,0		AISI 303	341	SH4-62
1/2"	1/2" - 14	NPTF	1 1/8"	72,9		45,0		AISI 316	346	SSH4-62Y*
3/4"	3/4"	BSPP	1 5/16"	93,2		54,4		AISI 303	603	SH6-62-BSPP
3/4"	3/4"	BSPP	1 5/16"	93,2		54,4		AISI 316	610	SSH6-62Y-BSPP*
3/4"	3/4" - 14	NPTF	1 5/16"	90,4		54,4		AISI 303	595	SH6-62
3/4"	3/4" - 14	NPTF	1 5/16"	90,4		54,4		AISI 316	592	SSH6-62Y*
1"	1"	BSPP	1 5/8"	106,2		64,0		AISI 303	908	SH8-62-BSPP
1"	1"	BSPP	41 mm	106,2		64,0		AISI 316	899	SSH8-62Y-BSPP*
1"	1" - 11 1/2	NPTF	1 5/8"	106,2		64,0		AISI 303	924	SH8-62
1"	1" - 11 1/2	NPTF	1 5/8"	106,2		64,0		AISI 316	901	SSH8-62Y*
1 1/2"	1 1/2"	BSPP	2 1/2"	127,3		76,2		AISI 303	2090	SH12-62N-BSPP
1 1/2"	1 1/2" - 11 1/2	NPTF	2 3/8"	123,4		76,2		AISI 303	2090	SH12-62N



Female Thread

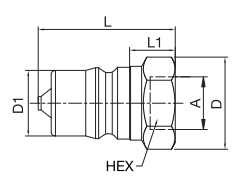


Female Thread

## Plugs

## 60-Series Stainless Steel

Body Size	Connection A	Thread	Hex	L mm	L1 mm	D mm	D1 mm	Version	Weight gr.	Part Number
1/8"	1/8"	BSPP	9/16"	32,0	10,5	16,4	10,8	AISI 303	18	SH1-63-BSPP
1/8"	1/8"	BSPP	17 mm	32,0	10,5	19,6	10,8	AISI 316	22	SSH1-63Y-BSPP*
1/8"	1/8" - 27	NPTF	9/16"	32,0	11,2	16,5	10,8	AISI 303	18	SH1-63
1/8"	1/8" - 27	NPTF	9/16"	32,0	11,2	16,5	10,8	AISI 316	18	SSH1-63Y*
1/4"	1/4"	BSPP	19 mm	39,1	16,6	21,9	14,2	AISI 303	36	SH2-63-BSPP
1/4"	1/4"	BSPP	3/4"	42,9	16,6	21,9	14,2	AISI 316	42	SSH2-63Y-BSPP*
1/4"	1/4" - 18	NPTF	3/4"	39,1	14,0	21,9	14,2	AISI 303	37	SH2-63
1/4"	1/4" - 18	NPTF	3/4"	39,1	14,0	21,9	14,2	AISI 316	37	SSH2-63Y*



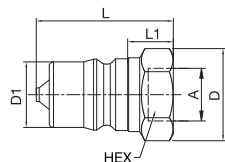
Female Thread

\*Suffix Y designates FKM seal.

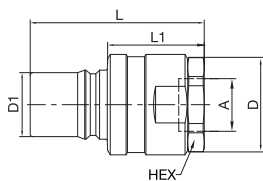
## Plugs

## 60-Series Stainless Steel

Body Size	Connection A	Thread	Hex	L mm	L1 mm	D mm	D1 mm	Version	Weight gr.	Part Number
3/8"	3/8"	BSPP	7/8"	49,3	19,7	25,7	19,1	AISI 303	69	SH3-63-BSPP
3/8"	3/8"	BSPP	7/8"	49,3	19,7	25,7	19,1	AISI 316	60	SSH3-63Y-BSPP*
3/8"	3/8" - 18	NPTF	7/8"	42,7	13,1	25,6	19,1	AISI 303	58	SH3-63
3/8"	3/8" - 18	NPTF	7/8"	42,7	13,1	25,6	19,1	AISI 316	55	SSH3-63Y*
1/2"	1/2"	BSPP	1 1/8"	54,1	21,1	32,9	23,5	AISI 303	122	SH4-63-BSPP
1/2"	1/2"	BSPP	1 1/8"	54,1	21,1	32,9	23,5	AISI 316	123	SSH4-63Y-BSPP*
1/2"	1/2" - 14	NPTF	1 1/8"	49,3	17,5	33,0	23,5	AISI 303	109	SH4-63
1/2"	1/2" - 14	NPTF	1 1/8"	49,3	17,5	33,0	23,5	AISI 316	109	SSH4-63Y*
3/4"	3/4"	BSPP	1 3/8"	64,5	21,9	40,3	31,4	AISI 303	217	SH6-63-BSPP
3/4"	3/4"	BSPP	1 3/8"	64,5	21,9	40,3	31,4	AISI 316	218	SSH6-63-BSPP*
3/4"	3/4" - 14	NPTF	1 3/8"	61,7	20,1	40,3	31,4	AISI 303	212	SH6-63
3/4"	3/4" - 14	NPTF	1 3/8"	61,7	20,1	40,3	31,4	AISI 316	210	SSH6-63Y*
1"	1"	BSPP	1 5/8"	73,8	25,2	47,2	37,7	AISI 303	345	SH8-63-BSPP
1"	1"	BSPP	1 5/8"	73,8	25,2	47,2	37,7	AISI 303	340	SH8-63Y-BSPP*
1"	1" - 11 1/2	NPTF	1 5/8"	73,9	33,4	47,8	37,7	AISI 303	356	SH8-63
1"	1" - 11 1/2	NPTF	1 5/8"	73,9	33,4	47,8	37,7	AISI 316	345	SSH8-63Y*
1 1/2"	1 1/2"	BSPP	2 1/2"	124,7	67,5	69,9	44,5	AISI 303	1315	SH12-63N-BSPP
1 1/2"	1 1/2" - 11 1/2	NPTF	2 3/8"	120,9	67,3	69,9	44,5	AISI 303	1315	SH12-63N



Female Thread



Female Thread

\* Suffix Y designates FKM seal.

## Dust Protection

## 60-Series

Body Size	Version	Material	Part Number
1/8"	for coupling	Aluminium	H1-65
1/8"	for coupling	Rubber	H1-65M
1/8"	for plug	Aluminium	H1-66
1/8"	for plug	Rubber	H1-66M
1/4"	for coupling	Aluminium	H2-65
1/4"	for coupling	Rubber	H2-65M
1/4"	for plug	Aluminium	H2-66
1/4"	for plug	Rubber	H2-66M
3/8"	for coupling	Aluminium	H3-65
3/8"	for coupling	Rubber	H3-65M
3/8"	for plug	Aluminium	H3-66
3/8"	for plug	Rubber	H3-66M

## Dust Protection

## 60-Series

Body Size	Version	Material	Part Number
1/2"	for coupling	Aluminium	H4-65
1/2"	for coupling	Rubber	H4-65M
1/2"	for plug	Aluminium	H4-66
1/2"	for plug	Rubber	H4-66M
3/4"	for coupling	Aluminium	H6-65
3/4"	for coupling	Rubber	H6-65M
3/4"	for plug	Aluminium	H6-66
3/4"	for plug	Rubber	H6-66M
1"	for coupling	Aluminium	H8-65
1"	for coupling	Rubber	H8-65M
1"	for plug	Aluminium	H8-66
1"	for plug	Rubber	H8-66M
1 1/2"	for coupling	Aluminium	H12-65
1 1/2"	for plug	Aluminium	H12-66

## Seal-Kit

## 60-Series

Body Size	Version	Material	Part Number
1/8"	Body Seal	NBR	020013N0674
1/8"	Body Seal	FKM	020013V0747
1/8"	Back-up Ring <sup>2</sup>	PTFE	H67A-28
1/4"	Body Seal	NBR	020015N0674
1/4"	Body Seal	FKM	020015V0747
1/4"	Back-up Ring <sup>2</sup>	PTFE	H67C-28
3/8"	Body Seal	NBR	020116N0674
3/8"	Body Seal	FKM	020116V0747
3/8"	Back-up Ring <sup>2</sup>	PTFE	4118007
1/2"	Body Seal	NBR	020213N0674
1/2"	Body Seal	FKM	020213V0747
1/2"	Back-up Ring <sup>2</sup>	PTFE	4128002
3/4"	Body Seal	NBR	020218N0674
3/4"	Body Seal	FKM	020218V0747
3/4"	Back-up Ring <sup>2</sup>	PTFE	4148001
1"	Body Seal	NBR	020222N0674
1"	Body Seal	FKM	020222V0747
1"	Back-up Ring <sup>2</sup>	PTFE	4158001
1 1/2"	Body Seal	NBR	020224N0674 <sup>1</sup>
2 1/2"	Body Seal	NBR	020333N0674

<sup>1</sup> Two body seals are necessary

<sup>2</sup> Brass 60 series couplers use two O-rings but do not use a back-up ring.



Body Size

1/4" up to 1"

ISO B-Profile

# Tema IB-Series

Medium Pressure



### Technical Description

The Tema IB series plug profiles conform to ISO Standard 7241-1 series B and are compatible with other series complying with the same standard. To optimize performance and corrosion resistance the female is made from brass and the male hardend steel.

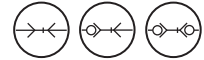
### Advantages

Option with pressure eliminator function allows for effortless connection with static and residual pressure, up to operating pressure. It is available in the IB series for plugs and couplings. Option with heavy duty sleeve gives longer life time in very tough applications.

### Working Temperature

-30°C up to +100°C (NBR)  
-25°C up to +200°C (FKM)  
depending on the medium. Special seals are available on request (see page 6).

### Available Valves



### Working Pressure

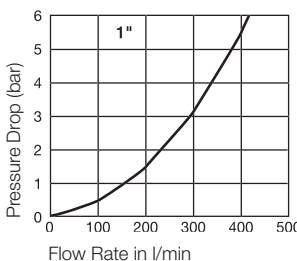
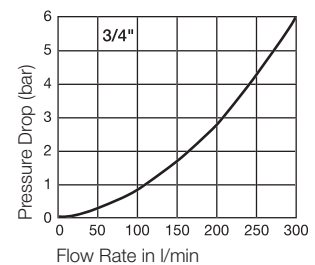
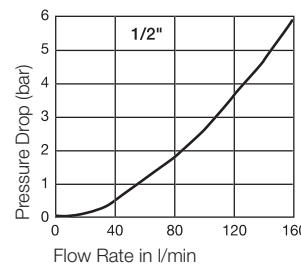
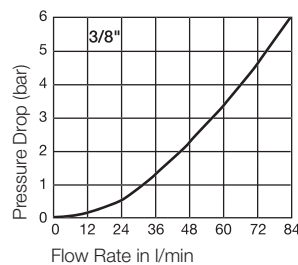
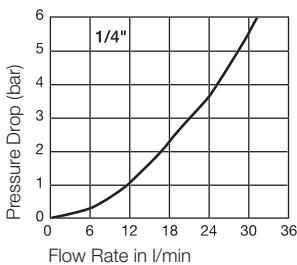
See charts.

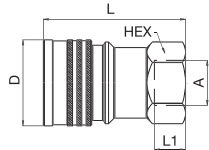
### Applications Area



Material Coupling	Standard / Pressure Eliminator
Coupling Body Size 1/4" to 1/2"	Brass, nickel and chrome plated
Coupling Body Size 3/4" to 1"	Steel zinc plated, passivated, sealed
Sleeve Size 1/4"	Brass, nickel and chrome plated
Sleeve Size 3/8" to 1"	Steel zinc plated, passivated, sealed
Valve	Brass
Springs	AISI 301
Locking Balls	AISI 420 C
Seals	NBR/FKM
Valve Holder (up to 100°C)	Zinc casting
Valve Holder (over 100°C)	Brass
Material Plug	Standard / Pressure Eliminator
Plug Body	Steel hardened, zinc plated, passivated, sealed
Valve	Brass
Springs	AISI 301
Seals	NBR/FKM
Valve Holder (up to 100°C)	Zinc Casting Size 3/8" & 1/2", Brass Size 1/4", 3/4", 1"
Valve Holder (over 100°C)	Brass

### Flow Capacity with Oil with Viscosity of 32cSt at 40°C as per ISO 7241/2-2000



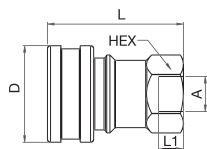


Female Thread

Body Size	Connection A	Hex mm	L mm	L1 mm	D mm	D1 mm	Valve	Working Pressure connected in bar	Version	Seal	Part Number
1/4"	G 1/4	24	57	12	28		with	400	Standard	NBR	IB2510
1/4"	G 1/4	24	57	12	28		with	400	Standard	FKM	IB2510 V
1/4"	G 1/4	24	57	12	28		without	400	Standard	NBR	IB2510 UV
1/4"	G 1/4	24	57	12	28		without	400	Standard	FKM	IB2510 VUV
3/8"	G 3/8	30	63	12	34		with	320	Standard	NBR	IB3810
3/8"	G 3/8	30	63	12	34		with	320	Standard	FKM	IB3810 V
3/8"	G 3/8	30	63	12	34		without	320	Standard	NBR	IB3810 UV
3/8"	G 3/8	30	63	12	34		without	320	Standard	FKM	IB3810 VUV
1/2"	G 1/2	33	66	14	39		with	300	Standard	NBR	IB5010
1/2"	G 1/2	33	66	14	39		with	300	Standard	FKM	IB5010 V
1/2"	G 1/2	33	66	14	39		without	300	Standard	NBR	IB5010 UV
1/2"	G 1/2	33	66	14	39		without	300	Standard	FKM	IB5010 VUV
3/4"	G 3/4	46	81	16	52		with	300	Standard	NBR	IB7510
3/4"	G 3/4	46	81	16	52		with	300	Standard	FKM	IB7510 V
3/4"	G 3/4	46	81	16	52		without	300	Standard	NBR	IB7510 UV
3/4"	G 3/4	46	81	16	52		without	300	Standard	FKM	IB7510 VUV
1"	G 1	50	94	18	62		with	250	Standard	NBR	IB10010
1"	G 1	50	94	18	62		with	250	Standard	FKM	IB10010 V
1"	G 1	50	94	18	62		without	250	Standard	NBR	IB10010 UV
1"	G 1	50	94	18	62		without	250	Standard	FKM	IB10010 VUV

## Couplings with Heavy Duty Sleeve

## IB-Series



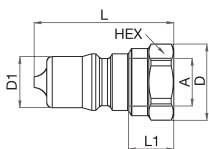
Female Thread

Body Size	Connection A	Hex mm	L mm	L1 mm	D mm	D1 mm	Valve	Working Pressure connected in bar	Version	Seal	Part Number
1/2"	G 1/2	33	66	14	47		with	300	Standard	NBR	IB5010 H
1/2"	G 1/2	33	66	14	47		without	300	Standard	NBR	IB5010 HUV
3/4"	G 3/4	46	81	16	56		with	300	Standard	NBR	IB7510 H
3/4"	G 3/4	46	81	16	56		without	300	Standard	NBR	IB7510 HUV
1"	G 1	50	94	18	66		with	250	Standard	NBR	IB10010 H
1"	G 1	50	94	18	66		with	250	Standard	FKM	IB10010 HV
1"	G 1	50	94	18	66		without	250	Standard	NBR	IB10010 HUV
1"	G 1	50	94	18	66		without	250	Standard	FKM	IB10010 HVUV



# Plugs

# IB-Series

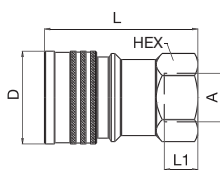


Female Thread

Body Size	Connection A	Hex mm	L mm	L1 mm	D mm	D1 mm	Valve	Working Pressure connected in bar	Version	Seal	Part Number
1/4"	G 1/4	19	38	12	21	14,1	with	400	Standard	NBR	IB2520
1/4"	G 1/4	19	38	12	21	14,1	with	400	Standard	FKM	IB2520 V
1/4"	G 1/4	19	38	12	21	14,1	without	400	Standard	-	IB2520 UV
3/8"	G 3/8	22	42	12	24	19	with	320	Standard	NBR	IB3820
3/8"	G 3/8	22	42	12	24	19	with	320	Standard	FKM	IB3820 V
3/8"	G 3/8	22	38	12	24	19	without	320	Standard	-	IB3820 UV
1/2"	G 1/2	28	48	14	31	23,6	with	300	Standard	NBR	IB5020
1/2"	G 1/2	28	48	14	31	23,6	with	300	Standard	FKM	IB5020 V
1/2"	G 1/2	28	42	14	31	23,6	without	300	Standard	-	IB5020 UV
3/4"	G 3/4	36	59	24	39	31,4	with	300	Standard	NBR	IB7520
3/4"	G 3/4	36	59	24	39	31,4	with	300	Standard	FKM	IB7520 V
3/4"	G 3/4	36	53	24	39	31,4	without	300	Standard	-	IB7520 UV
1"	G 1	42	70	18	46	37,8	with	300	Standard	NBR	IB10020
1"	G 1	42	70	18	46	37,8	with	300	Standard	FKM	IB10020 V
1"	G 1	42	70	18	46	37,8	without	300	Standard	-	IB10020 UV

# Couplings

# IB-Series



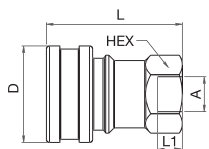
Female Thread



Body Size	Connection A	Hex mm	L mm	L1 mm	D mm	D1 mm	Valve	Working Pressure connected in bar	Version	Seal	Part Number
1/4"	G 1/4	24	57	12	28		with	400	Press. Elim.	NBR	IB2511
1/4"	G 1/4	24	57	12	28		with	400	Press. Elim.	FKM	IB2511 V
3/8"	G 3/8	30	63	12	34		with	320	Press. Elim.	NBR	IB3811
3/8"	G 3/8	30	63	12	34		with	320	Press. Elim.	FKM	IB3811 V
1/2"	G 1/2	33	66	14	39		with	300	Press. Elim.	NBR	IB5011
1/2"	G 1/2	33	66	14	39		with	300	Press. Elim.	FKM	IB5011 V
3/4"	G 3/4	46	81	16	52		with	300	Press. Elim.	NBR	IB7511
3/4"	G 3/4	46	81	16	52		with	300	Press. Elim.	FKM	IB7511 V
1"	G 1	50	94	18	62		with	300	Press. Elim.	NBR	IB10011

# Couplings with Heavy Duty Sleeve

# IB-Series



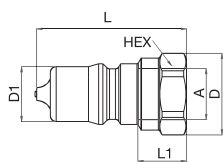
Female Thread



Body Size	Connection A	Hex mm	L mm	L1 mm	D mm	D1 mm	Valve	Working Pressure connected in bar	Version	Seal	Part Number
1/2"	G 1/2	33	66	14	47		with	300	Press. Elim.	NBR	IB5011 H
3/4"	G 3/4	46	81	16	56		with	300	Press. Elim.	NBR	IB7511 H
1"	G 1	50	94	18	66		with	300	Press. Elim.	NBR	IB10011 H

## Plugs

## IB-Series



Female Thread



Body Size	Connection A	Hex mm	L mm	L1 mm	D mm	D1 mm	Valve	Working Pressure connected in bar	Version	Seal	Part Number
1/4"	G 1/4	19	38	12	21	14,1	with	400	Press. Elim.	NBR	IB2521
1/4"	G 1/4	19	38	12	21	14,1	with	400	Press. Elim.	FKM	IB2521 V
3/8"	G 3/8	22	42	12	24	19	with	320	Press. Elim.	NBR	IB3821
3/8"	G 3/8	22	42	12	24	19	with	320	Press. Elim.	FKM	IB3821 V
1/2"	G 1/2	28	48	14	31	23,6	with	300	Press. Elim.	NBR	IB5021
1/2"	G 1/2	28	48	14	31	23,6	with	300	Press. Elim.	FKM	IB5021 V
3/4"	G 3/4	36	59	24	39	31,4	with	300	Press. Elim.	NBR	IB7521
3/4"	G 3/4	36	59	24	39	31,4	with	300	Press. Elim.	FKM	IB7521 V
1"	G 1	42	70	18	46	37,8	with	300	Press. Elim.	NBR	IB10021

## Seal-Kit

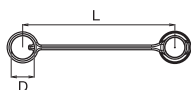
## IB-Series

Body Size	Version	Material	Part Number
1/4"	for coupling	NBR	IB2500-PSN
1/4"	for coupling	FKM	IB2500-PSV
3/8"	for coupling	NBR	IB3800-PSN
3/8"	for coupling	FKM	IB3800-PSV
1/2"	for coupling	NBR	IB5000-PSN
1/2"	for coupling	FKM	IB5000-PSV
3/4"	for coupling	NBR	IB7500-PSN
3/4"	for coupling	FKM	IB7500-PSV
1"	for coupling	NBR	IB10000-PSN
1"	for coupling	FKM	IB10000-PSV

Further sealing materials on request.

## Dust Protection

## IB-Series



Body Size	Version	L mm	D mm	Material	Color	Part Number
1/4"	for coupling	145	19	PVC	Blue	IB2516
1/4"	for coupling	145	19	PVC	Yellow	IB2516 Y
3/8"	for coupling	145	19	PVC	Blue	IB3816
1/2"	for coupling	170	28	PVC	Blue	IB5016
3/4"	for coupling	195	33	PVC	Blue	IB7516
1"	for coupling	230	42	PVC	Blue	IB10016
1/4"	for plug	145	19	PVC	Blue	IB2526
1/4"	for plug	145	19	PVC	Yellow	IB2526 Y
3/8"	for plug	145	19	PVC	Blue	IB3826
1/2"	for plug	170	28	PVC	Blue	IB5026
3/4"	for plug	195	33	PVC	Blue	IB7526
1"	for plug	230	42	PVC	Blue	IB10026

Further colors on request.



Body Size

1/8" up to 1"

ISO Standard 16028

# FEM- / IF-Series

Medium Pressure



### Technical Description

The FEM, FEC and IF series plug profile are produced according to ISO Standard 16028 and are compatible with other series complying with the same standard. These couplings offer a leakage free disconnection – mini-mal oil loss during uncoupling. Thanks to the valve design, the coupling has a minimum pressure drop, and thus achieves maximum cost-effectiveness. Exists in standard version (steel) and stainless steel.

### Advantages

- Can be operated with use of one hand.
- Safety locking feature as standard to prevent unintentional uncoupling.
- FEC with the pressure eliminator enable effortless connection under static pressure (up to rated working pressure).
- FEMP and FECP with push-pull features is suitable for multi-plates or when coupling is fixed on an application.

### Working Pressure

See charts.

### Working Temperature

-30°C up to +100°C (NBR)  
-25°C up to +200°C (FKM)  
depending on the medium. Special seals are available on request (see page 6).

### Available Valves



### Applications Area



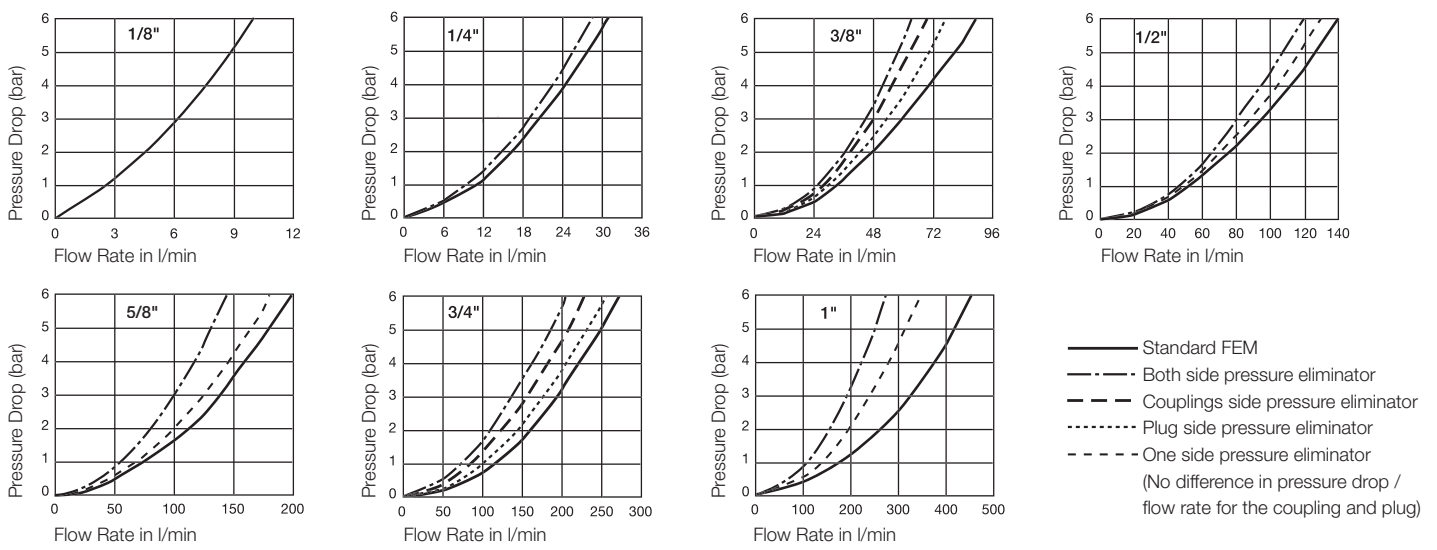
**New version coming. The FEM series will be upgraded and improved (starting with 3/8", 1/2", 3/4" sizes and variants). Please see flyer 3800-FEM-Series-UK for updated versions.**

Material Coupling	FEM-Series: Standard / Steel	FEC-Series: Push-Pull/Press. Elimin.	IF-Series Stainl. Steel
Coupling Body	Steel, zinc plated, passivated, sealed	Steel, nitrocarburizing	AISI 316
Sleeve	Steel, zinc plated, passivated, sealed	Steel, zinc plated, passivated, sealed	AISI 316
Valve	Steel, zinc plated, passivated, sealed	Steel, zinc plated, passivated, sealed	AISI 316
2nd Valve		Brass	
Springs	AISI 301	AISI 301	AISI 301
Locking Balls	AISI 420 C	AISI 420 C	AISI 420 C
Seals	NBR	NBR	FKM
Valve Holder	Steel, zinc plated, passivated	Steel, zinc plated, passivated, sealed	AISI 316
2nd Valve Holder (up to 100°C)		Zinc Casting (NBR)	
2nd Valve Holder (over 100°C)		Brass (EPDM/FKM)	AISI 316
Thread Body	Steel, zinc plated, passivated, sealed	Steel, zinc plated, passivated, sealed	

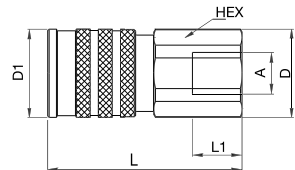
Material Plug	FEM-Series: Standard / Steel	FEC-Series: Push-Pull/Press. Elimin.	IF-Series Stainl. Steel
Plughousing	Steel hardened, zinc plated, passiv., sealed	Steel hardened, zinc plated, passiv., sealed	AISI 316
Valve	Steel	Steel, zinc plated, passivated, sealed	AISI 316
2nd Valve		Brass	
Springs	AISI 301	AISI 301	AISI 301
Seals	NBR/PUR	NBR	FKM
Valve Holder	Brass	Brass	AISI 316
2nd Valve Holder (up to 100°C)		Zinc Casting (NBR)	
2nd Valve Holder (over 100°C)		Brass (EPDM/FKM)	AISI 316
Thread Body	Steel	Steel	AISI 316

### Flow Capacity with Oil with Viscosity of 32cSt at 40°C as per ISO 7241/2-2000



# Couplings

# FEM-Series

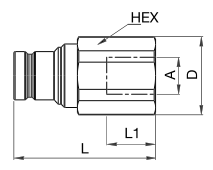


Female Thread

Body Size	Connection A	Hex mm	L mm	L1 mm	D mm	D1 mm	Working Pressure connected in bar	Version	Seal	Part Number*
1/8"	G 1/8	19	40	8	20,5	20	450	Standard	NBR	FEM-121-2FB
1/4"	G 1/4	27	64	12	29,5	29	315	Standard	NBR	FEM-251-4FB
1/4"	G 3/8	27	64	12	29,5	29	315	Standard	NBR	FEM-251-6FB
3/8"	G 3/8	30	71	12	32	32	250	Standard	NBR	FEM-371-6FB
3/8"	G 1/2	30	73	14	32	32	250	Standard	NBR	FEM-371-8FB
1/2"	G 1/2	36	76	14	40	39	250	Standard	NBR	FEM-501-8FB
1/2"	G 3/4	36	80	16	40	39	250	Standard	NBR	FEM-501-12FB
5/8"	G 3/4	40	82	16	43	42	250	Standard	NBR	FEM-621-12FB
3/4"	G 3/4	46	96	16	50	46	250	Standard	NBR	FEM-751-12FB
3/4"	G 1	46	102	18	50	46	250	Standard	NBR	FEM-751-16FB
1"	G 1	55	105	18	60	55	200	Standard	NBR	FEM-1001-16FB
1"	G 1 1/4	55	106	20	60	55	200	Standard	NBR	FEM-1001-20FB

# Plugs

# FEM-Series



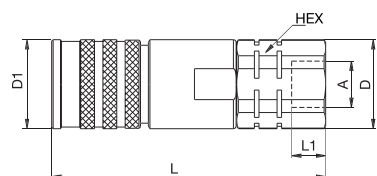
Female Thread

Body Size	Connection A	Hex mm	L mm	L1 mm	D mm	D1 mm	Working Pressure connected in bar	Version	Seal	Part Number*
1/8"	G 1/8	17	35	8	18,6		450	Standard	NBR	FEM-122-2FB
1/4"	G 1/4	22	49	12	24,5		315	Standard	NBR	FEM-252-4FB
1/4"	G 3/8	22	49	12	24,5		315	Standard	NBR	FEM-252-6FB
3/8"	G 3/8	30	58	12	32		250	Standard	NBR	FEM-372-6FB
3/8"	G 1/2	30	60	12	32		250	Standard	NBR	FEM-372-8FB
1/2"	G 1/2	36	66	14	40		250	Standard	NBR	FEM-502-8FB
1/2"	G 3/4	36	70	16	40		250	Standard	NBR	FEM-502-12FB
5/8"	G 3/4	36	71	16	40		250	Standard	NBR	FEM-622-12FB
3/4"	G 3/4	46	77	16	50		250	Standard	NBR	FEM-752-12FB
3/4"	G 1	46	83	18	50		250	Standard	NBR	FEM-752-16FB
1"	G 1	55	89	18	60		200	Standard	NBR	FEM-1002-16FB
1"	G 1 1/4	55	90	20	60		200	Standard	NBR	FEM-1002-20FB

\* For the old part number please have a look on the Cross-Reference-List on page 49.

## Couplings

## FEM-Series

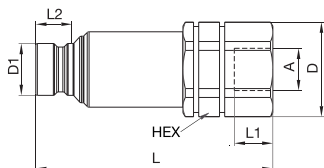


**PE** Female Thread

Body Size	Connection A	Hex mm	L mm	L1 mm	L2 mm	D mm	D1 mm	Working Pressure connected in bar	Version	Seal	Part Number*
1/4"	G 1/4	27	91	12		29,5	29	315	Press. Elimin.	NBR	FEC-251-4FB
1/4"	G 3/8	27	91	12		29,5	29	315	Press. Elimin.	NBR	FEC-251-6FB
3/8"	G 3/8	30	99	12		32	32	250	Press. Elimin.	NBR	FEC-371-6FB
3/8"	G 1/2	30	101	14		32	32	250	Press. Elimin.	NBR	FEC-371-8FB
1/2"	G 1/2	40	112	14		43	39	250	Press. Elimin.	NBR	FEC-501-8FB
1/2"	G 3/4	40	115	16		43	39	250	Press. Elimin.	NBR	FEC-501-12FB
5/8"	G 3/4	40	117	16		43	42	250	Press. Elimin.	NBR	FEC-621-12FB
3/4"	G 3/4	50	130	16		54	46	250	Press. Elimin.	NBR	FEC-751-12FB
3/4"	G 1	50	136	16		54	46	250	Press. Elimin.	NBR	FEC-751-16FB
1"	G 1	55	143	18		60	55	200	Press. Elimin.	NBR	FEC-1001-16FB
1"	G 1 1/4	55	146	20		60	55	200	Press. Elimin.	NBR	FEC-1001-20FB

## Plugs

## FEM-Series



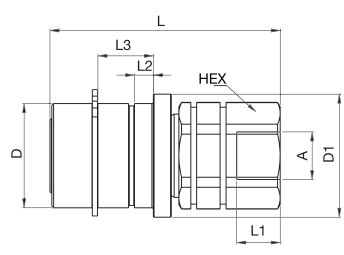
**PE** Female Thread

Body Size	Connection A	Hex mm	L mm	L1 mm	L2 mm	D mm	D1 mm	Working Pressure connected in bar	Version	Seal	Part Number*
1/4"	G 1/4	27	74	12	11,3	29,5	16,1	315	Press. Elimin.	NBR	FEC-252-4FB
1/4"	G 3/8	27	74	12	11,3	29,5	16,1	315	Press. Elimin.	NBR	FEC-252-6FB
3/8"	G 3/8	30	87	12	16,1	32	19,7	250	Press. Elimin.	NBR	FEC-372-6FB
3/8"	G 1/2	30	89	14	16,1	32	19,7	250	Press. Elimin.	NBR	FEC-372-8FB
1/2"	G 1/2	40	98	14	17	43	24,5	250	Press. Elimin.	NBR	FEC-502-8FB
1/2"	G 3/4	40	101	16	17	43	24,5	250	Press. Elimin.	NBR	FEC-502-12FB
5/8"	G 3/4	40	101	16	17,7	43	27	250	Press. Elimin.	NBR	FEC-622-12FB
3/4"	G 3/4	50	114	16	22	54	30	250	Press. Elimin.	NBR	FEC-752-12FB
3/4"	G 1	50	120	16	22	54	30	250	Press. Elimin.	NBR	FEC-752-16FB
1"	G 1	55	126	18	23,3	60	36	200	Press. Elimin.	NBR	FEC-1002-16FB
1"	G 1 1/4	55	130	20	23,3	60	36	200	Press. Elimin.	NBR	FEC-1002-20FB

\* For the old part number please have a look on the Cross-Reference-List on page 49.

# Couplings

# FEM-Series

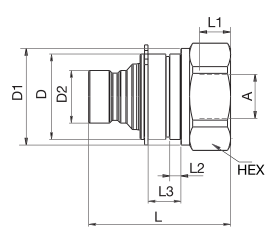


Female Thread  
Provided with Circlip acc. DIN 471

Body Size	Connect. A	Hex mm	L mm	L1 mm	L2 mm	L3 mm	D mm	D1 mm	D2 mm	Work. Press. con. in bar	Version	Seal	Part Number*
1/4"	G 1/4	27	64	12	5,2	15,3	28,8	34		315	for Multiplate	NBR	FEMP-251-4FB
1/4"	G 3/8	27	64	12	5,2	15,3	28,8	34		315	for Multiplate	NBR	FEMP-251-6FB
3/8"	G 3/8	30	71	12	5,2	15,3	31,8	38		250	for Multiplate	NBR	FEMP-371-6FB
3/8"	G 1/2	30	73	14	5,2	15,3	31,8	38		250	for Multiplate	NBR	FEMP-371-8FB
1/2"	G 1/2	36	76	14	5,2	15,3	39,8	46		250	for Multiplate	NBR	FEMP-501-8FB
1/2"	G 3/4	36	80	16	5,2	15,3	39,8	46		250	for Multiplate	NBR	FEMP-501-12FB
5/8"	G 3/4	40	82	16	5,2	15,3	41,8	48		250	for Multiplate	NBR	FEMP-621-12FB
3/4"	G 3/4	46	95	16	5,2	15,3	46,8	53		250	for Multiplate	NBR	FEMP-751-12FB
3/4"	G 1	46	101	18	5,2	15,3	46,8	53		250	for Multiplate	NBR	FEMP-751-16FB
1"	G 1	55	105	18	5,2	15,3	59,8	65		200	for Multiplate	NBR	FEMP-1001-16FB

# Plugs

# FEM-Series

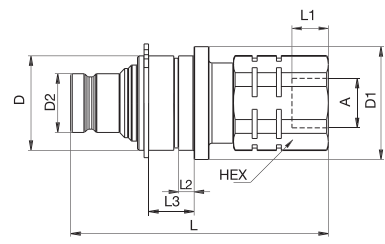


Female Thread  
Provided with Circlip acc. DIN 471

Body Size	Connect. A	Hex mm	L mm	L1 mm	L2 mm	L3 mm	D mm	D1 mm	D2 mm	Work. Press. con. in bar	Version	Seal	Part Number*
1/4"	G 1/4	32	49	12	5,2	15,3	28,8	32	16,1	315	for Multiplate	PUR	FEMP-252-4FB
3/8"	G 3/8	36	58	12	5,2	15,3	31,8	36	19,8	250	for Multiplate	PUR	FEMP-372-6FB
1/2"	G 1/2	45	66	14	5,2	15,3	39,8	45	24,5	250	for Multiplate	PUR	FEMP-502-8FB
5/8"	G 3/4	46	71	16	5,2	15,3	41,8	46	27	250	for Multiplate	PUR	FEMP-622-12FB
3/4"	G 3/4	50	83	16	5,2	15,3	46,8	50	30	250	for Multiplate	PUR	FEMP-752-12FB
1"	G 1	65	89	18	5,2	15,3	59,8	65	36	200	for Multiplate	PUR	FEMP-1002-16FB

# Plugs

# FEM-Series



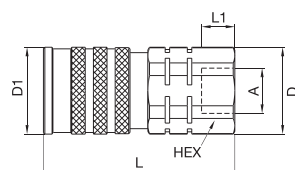
**PE**  
Female Thread  
Provided with Circlip acc. DIN 471

Body Size	Connect. A	Hex mm	L mm	L1 mm	L2 mm	L3 mm	D mm	D1 mm	D2 mm	Work. Press. con. in bar	Version	Seal	Part Number*
1/4"	G 1/4	27	74	12	5,2	15,3	28,8	34	16,1	315	Press. El. f. Multiplate	NBR	FECP-252-4FB
1/4"	G 3/8	27	74	12	5,2	15,3	28,8	34	16,1	315	Press. El. f. Multiplate	NBR	FECP-252-6FB
3/8"	G 3/8	30	87	12	5,2	15,3	31,8	38	19,8	250	Press. El. f. Multiplate	NBR	FECP-372-6FB
3/8"	G 1/2	30	89	14	5,2	15,3	31,8	38	19,8	250	Press. El. f. Multiplate	NBR	FECP-372-8FB
1/2"	G 1/2	40	98	14	5,2	15,3	39,8	46	24,5	250	Press. El. f. Multiplate	NBR	FECP-502-8FB
1/2"	G 3/4	40	101	16	5,2	15,3	39,8	46	24,5	250	Press. El. f. Multiplate	NBR	FECP-502-12FB
5/8"	G 3/4	40	101	16	5,2	15,3	41,8	46	27	250	Press. El. f. Multiplate	NBR	FECP-622-12FB
3/4"	G 3/4	50	114	16	5,2	15,3	46,8	53	30	250	Press. El. f. Multiplate	NBR	FECP-752-12FB
3/4"	G 1	50	120	18	5,2	15,3	46,8	53	30	250	Press. El. f. Multiplate	NBR	FECP-752-16FB
1"	G 1	55	126	18	5,2	15,3	59,8	65	36	200	Press. El. f. Multiplate	NBR	FECP-1002-16FB

\* For the old part number please have a look on the Cross-Reference-List on page 49.

## Couplings

## IF-Series Stainless Steel

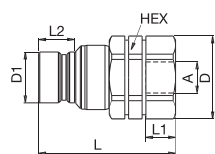


Female Thread

Body Size	Connection A	Hex mm	L mm	L1 mm	L2 mm	D mm	D1 mm	Working Pressure connected in bar	Version	Seal	Part Number
1/4"	G 1/4	27	64	12		29,5	29	315	Stainl. Steel	FKM	IF2510 RV
3/8"	G 3/8	30	71	12		32	32	250	Stainl. Steel	FKM	IF3810 RV
3/8"	G 1/2	30	73	14		32	32	250	Stainl. Steel	FKM	IF3810-50 RV
1/2"	G 1/2	36	76	14		40	39	250	Stainl. Steel	FKM	IF5010 RV
1/2"	G 3/4	36	80	16		40	39	250	Stainl. Steel	FKM	IF5010-75 RV
5/8"	G 3/4	40	82	16		43	42	250	Stainl. Steel	FKM	IF6310 RV
3/4"	G 3/4	46	96	16		50	46	250	Stainl. Steel	FKM	IF7510 RV
3/4"	G 1	46	102	18		50	46	250	Stainl. Steel	FKM	IF7510-100 RV
1"	G 1	55	105	18		60	55	200	Stainl. Steel	FKM	IF10010 RV
1"	G 1 1/4	55	109	20		60	55	200	Stainl. Steel	FKM	IF10010-125 RV

## Plugs

## IF-Series Stainless Steel

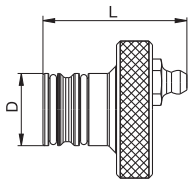


Female Thread

Body Size	Connection A	Hex mm	L mm	L1 mm	L2 mm	D mm	D1 mm	Working Pressure connected in bar	Version	Seal	Part Number
1/4"	G 1/4	22	49	12	11,3	24,5	16,1	315	Stainl. Steel	FKM	IF2520 RV
3/8"	G 3/8	30	58	12	16,1	32	19,7	250	Stainl. Steel	FKM	IF3820 RV
3/8"	G 1/2	30	60	12	16,1	32	19,7	250	Stainl. Steel	FKM	IF3820-50 RV
1/2"	G 1/2	36	66	14	17	40	24,5	250	Stainl. Steel	FKM	IF5020 RV
1/2"	G 3/4	36	70	16	17	40	24,5	250	Stainl. Steel	FKM	IF5020-75 RV
5/8"	G 3/4	36	71	16	17,7	40	27	250	Stainl. Steel	FKM	IF6320 RV
3/4"	G 3/4	46	77	16	22	50	30	250	Stainl. Steel	FKM	IF7520 RV
3/4"	G 1	46	83	18	22	50	30	250	Stainl. Steel	FKM	IF7520-100 RV
1"	G 1	55	89	18	23,3	60	36	200	Stainl. Steel	FKM	IF10020 RV
1"	G 1 1/4	55	93	20	23,3	60	36	200	Stainl. Steel	FKM	IF10020-125 RV

## Lubrication Nipple

## FEM-/IF-Series



Body Size	Version	L mm	D mm	Part Number
3/8"	for coupling	39	20	GRIF38
1/2"	for coupling	42	25	GRIF50
5/8"	for coupling	43	27	GRIF63
3/4"	for coupling	48	30	GRIF75
1"	for coupling	54	36	GRIF100

## Seal-Kit

## FEM-/IF-Series

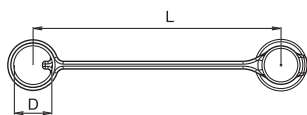
Body Size	Version	Material	Part Number
1/8"	for plugs	NBR	IF2300-PSN
1/8"	for plugs	FKM	IF2300-PSV
1/4"	for plugs	NBR	IF2500-PSN
1/4"	for plugs	FKM	IF2500-PSV
1/4"	for plugs	EPDM	IF2500-PSEP
1/4"	for plugs	PUR	IF2500-PSPU
3/8"	for plugs	NBR	IF3800-PSN
3/8"	for plugs	FKM	IF3800-PSV
3/8"	for plugs	EPDM	IF3800-PSEP
3/8"	for plugs	PUR	IF3800-PSPU
1/2"	for plugs	NBR	IF5000-PSN
1/2"	for plugs	FKM	IF5000-PSV
1/2"	for plugs	EPDM	IF5000-PSEP
1/2"	for plugs	PUR	IF5000-PSPU
5/8"	for plugs	NBR	IF6300-PSN
5/8"	for plugs	FKM	IF6300-PSV
5/8"	for plugs	EPDM	IF6300-PSEP
5/8"	for plugs	PUR	IF6300-PSPU
3/4"	for plugs	NBR	IF7500-PSN
3/4"	for plugs	FKM	IF7500-PSV
3/4"	for plugs	EPDM	IF7500-PSEP
3/4"	for plugs	PUR	IF7500-PSPU
1"	for plugs	NBR	IF10000-PSN
1"	for plugs	FKM	IF10000-PSV
1"	for plugs	EPDM	IF10000-PSEP
1"	for plugs	PUR	IF10000-PSPU



# Dust Protection

# FEM-/IF-Series

Body Size	Version	L mm	D mm	Material	Color	Part Number
1/8"	for coupling	145	19	PVC	Blue	IB3826
1/8"	for plug	145	19	PVC	Blue	IB2526
1/4"	for coupling	160	24	PVC	Black	PFE-251-P
1/4"	for plug	160	23	PVC	Black	CFE-252-P
3/8"	for coupling	170	28	PVC	Black	PFE-371-P
3/8"	for plug	170	28	PVC	Black	CFE-372-P
1/2"	for coupling	185	35	PVC	Black	PFE-501-P
1/2"	for plug	185	35	PVC	Black	CFE-502-P
5/8"	for coupling	215	37	PVC	Black	PFE-621-P
5/8"	for plug	215	37	PVC	Black	CFE-622-P
3/4"	for coupling	185	42	PVC	Black	PFE-751-P
3/4"	for plug	185	42	PVC	Black	CFE-752-P
1"	for coupling	240	50	PVC	Black	PFE-1001-P
1"	for plug	240	50	PVC	Black	CFE-1002-P



Further colors on request.

## Cross-Reference-List

### Coupling

Body Size	Version	Old Part Number	New Part Number	Page
1/8"	Standard	IF2310	FEM-121-2FB	37
1/4"	Standard	IF2510	FEM-251-4FB	37
1/4"	Standard	IF2510-38	FEM-251-6FB	37
3/8"	Standard	IF3810	FEM-371-6FB	37
3/8"	Standard	IF3810-50	FEM-371-8FB	37
1/2"	Standard	IF5010	FEM-501-8FB	37
1/2"	Standard	IF5010-75	FEM-501-12FB	37
5/8"	Standard	IF6310	FEM-621-12FB	37
3/4"	Standard	IF7510	FEM-751-12FB	37
3/4"	Standard	IF7510-100	FEM-751-16FB	37
1"	Standard	IF10010	FEM-1001-16FB	37
1"	Standard	IF10010-125	FEM-1001-20FB	37
1/4"	Press. Elimin.	IF2511	FEC-251-4FB	38
1/4"	Press. Elimin.	IF2511-38	FEC-251-6FB	38
3/8"	Press. Elimin.	IF3811	FEC-371-6FB	38
3/8"	Press. Elimin.	IF3811-50	FEC-371-8FB	38
1/2"	Press. Elimin.	IF5011	FEC-501-8FB	38
1/2"	Press. Elimin.	IF5011-75	FEC-501-12FB	38
5/8"	Press. Elimin.	IF6311	FEC-621-12FB	38
3/4"	Press. Elimin.	IF7511	FEC-751-12FB	38
3/4"	Press. Elimin.	IF7511-100	FEC-751-16FB	38
1"	Press. Elimin.	IF10011	FEC-1001-16FB	38
1"	Press. Elimin.	IF10011-125	FEC-1001-20FB	38
1/4"	for Multiplate	IF2510 E	FEMP-251-4FB	39
1/4"	for Multiplate	IF2510-38 E	FEMP-251-6FB	39
3/8"	for Multiplate	IF3810 E	FEMP-371-6FB	39
3/8"	for Multiplate	IF3810-50 E	FEMP-371-8FB	39
1/2"	for Multiplate	IF5010 E	FEMP-501-8FB	39
1/2"	for Multiplate	IF5010-75 E	FEMP-501-12FB	39
5/8"	for Multiplate	IF6310 E	FEMP-621-12FB	39
3/4"	for Multiplate	IF7510 E	FEMP-751-12FB	39
3/4"	for Multiplate	IF7510-100 E	FEMP-751-16FB	39
1"	for Multiplate	IF10010 E	FEMP-1001-16FB	39

### Plug

Body Size	Version	Old Part Number	New Part Number	Page
1/8"	Standard	IF2320	FEM-122-2FB	37
1/4"	Standard	IF2520	FEM-252-4FB	37
1/4"	Standard	IF2520-38	FEM-252-6FB	37
3/8"	Standard	IF3820	FEM-372-6FB	37
3/8"	Standard	IF3820-50	FEM-372-8FB	37
1/2"	Standard	IF5020	FEM-502-8FB	37
1/2"	Standard	IF5020-75	FEM-502-12FB	37
5/8"	Standard	IF6320	FEM-622-12FB	37
3/4"	Standard	IF7520	FEM-752-12FB	37
3/4"	Standard	IF7520-100	FEM-752-16FB	37
1"	Standard	IF10020	FEM-1002-16FB	37
1"	Standard	IF10020-125	FEM-1002-20FB	37
1/4"	Press. Elimin.	IF2521	FEC-252-4FB	38
1/4"	Press. Elimin.	IF2521-38	FEC-252-6FB	38
3/8"	Press. Elimin.	IF3821	FEC-372-6FB	38
3/8"	Press. Elimin.	IF3821-50	FEC-372-8FB	38
1/2"	Press. Elimin.	IF5021	FEC-502-8FB	38
1/2"	Press. Elimin.	IF5021-75	FEC-502-12FB	38
5/8"	Press. Elimin.	IF6321	FEC-622-12FB	38
3/4"	Press. Elimin.	IF7521	FEC-752-12FB	38
3/4"	Press. Elimin.	IF7521-100	FEC-752-16FB	38
1"	Press. Elimin.	IF10021	FEC-1002-16FB	38
1"	Press. Elimin.	IF10021-125	FEC-1002-20FB	38
1/4"	for Multiplate	IF2520 E	FEMP-252-4FB	39
3/8"	for Multiplate	IF3820 E	FEMP-372-6FB	39
1/2"	for Multiplate	IF5020 E	FEMP-502-8FB	39
5/8"	for Multiplate	IF6320 E	FEMP-622-12FB	39
3/4"	for Multiplate	IF7520 E	FEMP-752-12FB	39
1"	for Multiplate	IF10020 E	FEMP-1002-16FB	39
1/4"	Press. El. for Multiplate	IF2521 E	FEC-252-4FB	39
1/4"	Press. El. for Multiplate	IF2521-38 E	FEC-252-6FB	39
3/8"	Press. El. for Multiplate	IF3821 E	FEC-372-6FB	39
3/8"	Press. El. for Multiplate	IF3821-50 E	FEC-372-8FB	39
1/2"	Press. El. for Multiplate	IF5021 E	FEC-502-8FB	39
1/2"	Press. El. for Multiplate	IF5021-75 E	FEC-502-12FB	39
5/8"	Press. El. for Multiplate	IF6321 E	FEC-622-12FB	39
3/4"	Press. El. for Multiplate	IF7521 E	FEC-752-12FB	39
3/4"	Press. El. for Multiplate	IF7521-100 E	FEC-752-16FB	39
1"	Press. El. for Multiplate	IF10021 E	FEC-1002-16FB	39