



Quick Coupling Products

Catalogue 3800-IND/UK





For your safety!

Under certain circumstances, quick couplings can be subjected to extreme loadings such as vibration and uncontrolled pressure peaks.

Only by using genuine Parker Components and following Parker assembly instructions can you be assured of the reliability and safety of the product and their conformity to the applicable standards.

Failure to follow this rule can adversely affect the functional safety and reliability of products, cause personal injury, property damage, and result in loss of your guarantee rights.

Subject to alteration.

For your safety: see safety guide (pages 58-59).

All dimensions used in this catalogue are in mm otherwise the units are specified.
The rated pressure is in MPa.

If necessary you can also use the conversion table on page 60.

The products described herein, including without limitation, products features, dimensions, specifications and designs are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

For the availability of Parker components, please refer to price list 3893.

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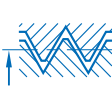
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	Series	Traditional quick couplings						Flush-faced quick couplings			
		60 Series			ST Series		SM Series	NS Series	NSI Series	FEM Series	
		Brass	Steel	Stainless Steel	Brass	Stainless Steel					
	Picture										
	Standards	ISO 7241-1-B			Interchangeable with similar models				Interchangeable with similar models	ISO 16028	
	Material										
	Brass	●			●				●		
	Steel		●				●	●		●	
	Stainless Steel			●		●			and ●		
	Polypropylene										
	Size										
	1/8"	●	●	●	●	●			●		●
	1/4"	●	●	●	●	●	●				●
	3/8"	●	●	●	●	●		●			●
	1/2"	●	●	●	●	●	●	●			●
	5/8"										●
	3/4"	●	●	●	●	●	●	●			●
	1"	●	●	●	●	●		●			●
	1 1/4"				●						
	1 1/2"	●	●	●	●						
	Rated pressure* MPa										
	1/8"	21.0	35.0	35.0	17.5	29.0					
	1/4"	25.5	35.0	35.0	36.0	46.0	41.0		6.0	31.5	
	3/8"	18.5	28.0	35.0	18.5	38.0		17.5		25.0	
	1/2"	24.0	28.0	35.0	15.0	21.0	41.0	17.5		25.0	
	5/8"									25.0	
	3/4"	15.0	17.5	21.0	12.0	21.0	31.0	17.5		25.0	
	1"	10.5	14.0	21.0	8.0	12.0		17.5		20.0	
	1 1/4"				12.0						
	1 1/2"	10.5	10.5	10.5	9.5						
	Temperature range* (with NBR seal)										
		-40°C +110°C			-40°C +110°C		-40°C +110°C	-40°C +110°C	-20°C +200°C	-20°C +100°C	
	Seal	NBR or FKM			NBR		NBR	NBR	FKM	NBR	
	Coupler style										
	Manual		●		●		●	●	●		
	Screw-to-connect										
	Push-Pull										
	Valving										
	Poppet		●				●				
	Flat-faced poppet							●	●	●	
	Ball										
	Connection possible with pressure on*										
	Female body										
	Male tip										
	Locking mechanism										
	Screw type										
	With cam										
	Ball locking mechanism		●		●		●	●	●	●	
	End configuration										
		BSPP NPTF			BSPP BSPT NPTF		BSPP NPTF	BSPP NPSF	BSPP Metric	BSPP Metric	
	Full technical data page	4			12		17	20	23	25	

*Data shown here are indicative for quick selection purposes only. Please check technical data indicated for each individual series and always refer to safety guide pages 58-59.

	Series Features	Flush-faced quick couplings		Screw type q. c.	High pressure quick couplings			
		FS Series	PF Series	6100 Series	CM Series	CL Series	3000 Series	FH Series
	Picture							
	Standards				Interchangeable with similar models	Interchangeable with similar models	Interchangeable with similar models	HTMA 70 MPa
	Material							
	Brass							
	Steel							
	Stainless Steel							
	Polypropylene							
	Size							
	1/8"							
	1/4"							
	3/8"							
	1/2"							
	5/8"							
	3/4"							
	1"							
	1 1/4"							
	1 1/2"							
	2"							
	2 1/2"							
 max.	Rated pressure* MPa							
	1/8"							
	1/4"	14.0			150	100	70	
	3/8"	14.0					70	70
	1/2"	14.0	0.7					
	5/8"							
	3/4"	14.0		21.0				
	1"	14.0	0.4	21.0				
	1 1/4"			19.0				
	1 1/2"			17.5				
	2"		0.7					
	2 1/2"							
	Temperature range* (with NBR seal)	-20°C +200°C	+4°C +60°C	-40°C +110°C	-30°C +100°C	-30°C +100°C	-30°C +110°C	-40°C +110°C
	Seal	FKM	FKM	NBR	NBR	NBR	NBR or Polyurethane	NBR
	Coupler style							
	Manual							
	Screw-to-connect							
	Push-Pull							
	Valving							
	Poppet							
	Flat-faced poppet							
	Ball						or 	
	Connection possible pressure on*							
	Female body							
	Male tip							
	Locking mechanism							
	Screw type							
	With cam							
	Ball locking mechanism							
	End configuration							
	BSPP							
	NPT							
		BSPP NPT	BSPP NPT	BSPP NPTF	BSPP	BSPP	NPTF	BSPP NPTF
	Full technical data page	29	32	36	41	43	45	48

*Data shown here are indicative for quick selection purposes only. Please check technical data indicated for each individual series and always refer to safety guide pages 58-59.

										
ISO 7241-1-B	Brass, steel, stainless steel 303 and 316	1/8", 1/4", 3/8", 1/2", 3/4", 1", 1 1/2", 2 1/2"	35 MPa max.	-40°C + 110°C (NBR seal) -20°C + 200°C (FKM seal : Viton™)	NBR (brass, steel, AISI 303 stainless steel), FKM (Viton™, AISI 316 stainless steel)	Manual	Poppet	-	Ball locking mechanism	BSPP, NPTF

Main characteristics

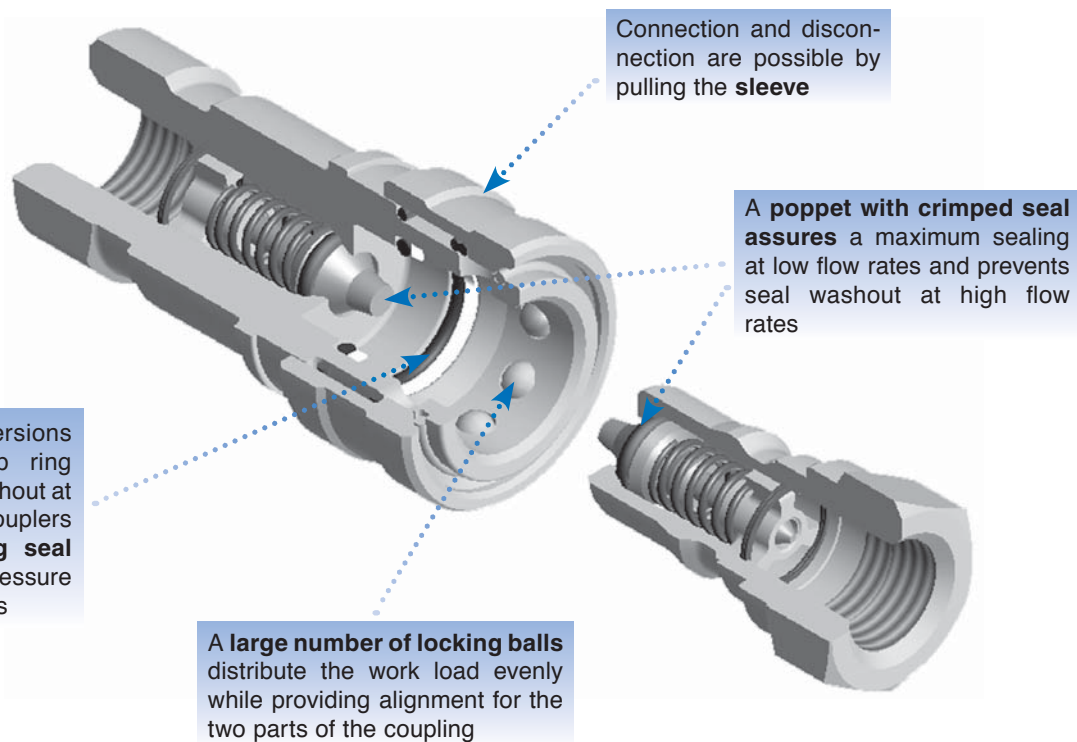
- Meets the requirements of **ISO 7241-1, Series B**
- Can be used for any type of industrial applications because of the broad range of materials, seals and end configurations

Applications

- Semiconductor industry, steel manufacturing
- Pneumatic and hydraulic hand tools
- Food and bottling industry
- Boating, shipbuilding and offshore industry
- Pharmaceutical industry, laboratories
- Transport
- Power generating plants, hydroelectric power stations (filling / connection of mobile filtration equipment)



Technical features



Technical performance data

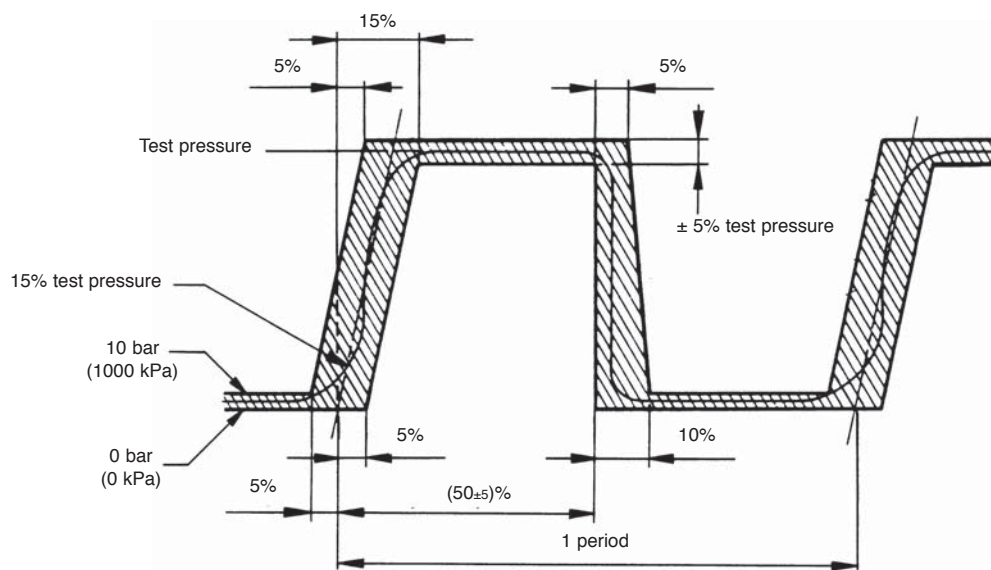
Low cycle, non-pulsating pressure rating:

Applications with lower cycle time and no severe cyclic pressure fluctuations, essentially steady pressure during an operating cycle. Typical applications include hydraulic jacks, mine roof support systems, and high pressure fluid transfer (pumping water or slurry in oil wells). Minor pump ripple is considered non-pulsating. Impulse tested at rated pressure.

ANSI/ISO Pressure rating:

Dynamic applications with normal to moderate hydraulic shocks such as general industrial equipment, hydraulic presses, agricultural equipment. Impulse tested at a multiple (125 % or 133 %) of rated pressure.

A uniform cycle rate of 0.5 to 1.0 Hz is held over 100,000 cycles according to ISO 7241-1 & 2.



Low cycle, non-pulsating pressure rating			
Body size inch	Steel	Stainless steel MPa	Brass
1/8"	35.0	35.0	21.0
1/4"	35.0	35.0	25.5
3/8"	28.0	35.0	18.5
1/2"	28.0	35.0	24.0
3/4"	17.5	21.0	15.0
1"	14.0	21.0	10.5
1 1/2"	10.5	10.5	10.5
2 1/2"	10.5	-	8.5

ANSI/ISO Pressure rating			
Body size inch	Steel	Stainless steel MPa	Brass
1/8"	35.0	14.0	7.0
1/4"	35.0	14.0	7.0
3/8"	28.0	10.5	7.0
1/2"	28.0	10.5	7.0
3/4"	17.5	10.5	7.0
1"	14.0	7.0	7.0
1 1/2"	7.0	7.0	5.5
2 1/2"	7.0	-	5.5

* Values shown for stainless steel are valid for both AISI 303 and AISI 316.

Temperature rating:

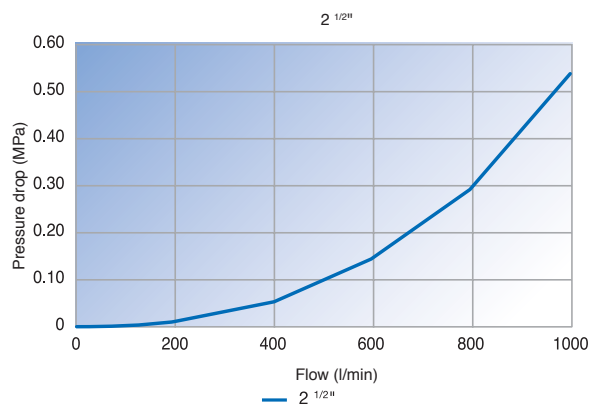
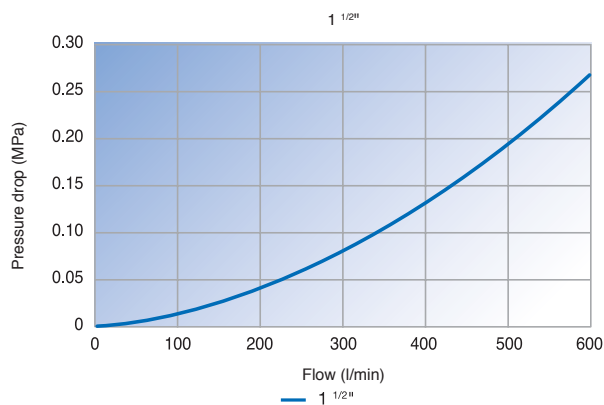
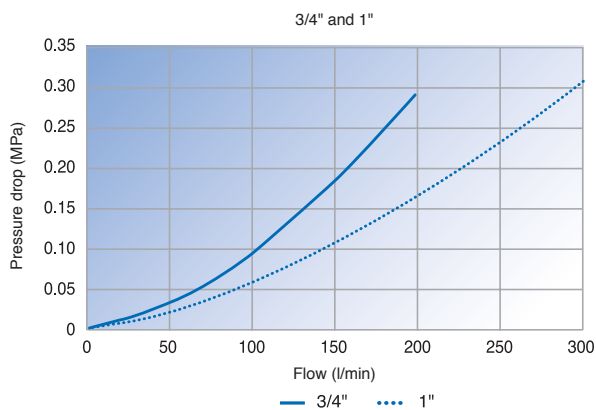
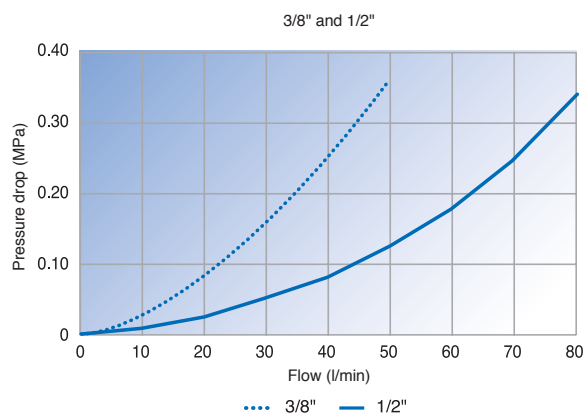
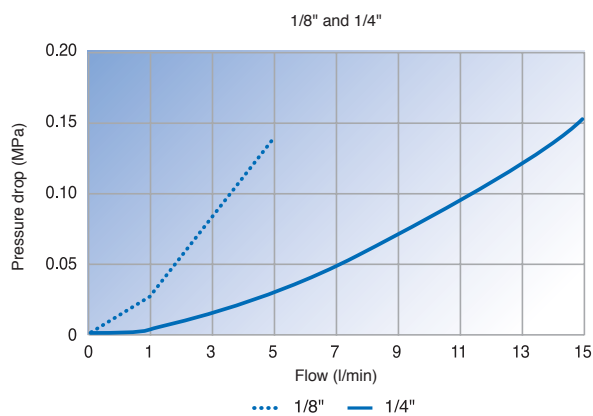
	Part number suffix	O-ring compound	Temperature range
Standard	No suffix	NBR (Nitrile)	-40°C +110°C
	Y	FKM (Viton™)	-20°C +200°C
Option	W	EPDM (Ethylene Propylene)	-40°C +150°C
	Z	CR (Neoprene)	-40°C +100°C

Vacuum data:

696 mm Hg both connected and disconnected

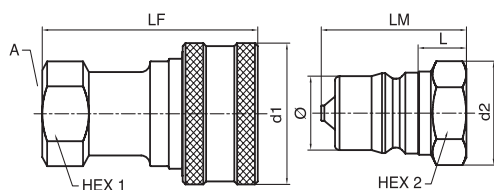
Pressure drop

Tests with oil viscosity 43 cSt at 38°C.



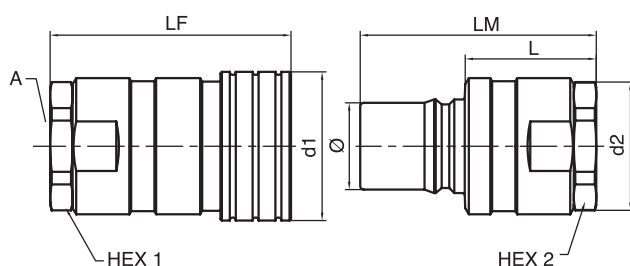
Dimensions and part numbers

STEEL COUPLERS



Body size inch	Thread A inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	L mm	LM mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP thread													
1/8"	1/8	24.4	11/16"	48.3	16.4	9/16"	10.5	32.0	10.8	H1-62-BSPP	81	H1-63-BSPP	18
1/4"	1/4	29.0	13/16"	61.2	21.9	3/4"	16.6	42.9	14.2	H2-62-BSPP	130	H2-63-BSPP	38
3/8"	3/8	35.6	1"	69.9	25.7	7/8"	19.7	49.3	19.1	H3-62-BSPP	241	H3-63-BSPP	68
1/2"	1/2	45.0	1 1/8"	77.5	32.9	1 1/8"	21.1	54.1	23.5	H4-62-BSPP	360	H4-63-BSPP	122
3/4"	3/4	54.4	1 5/16"	93.2	40.3	1 3/8"	21.9	64.5	31.4	H6-62-BSPP	602	H6-63-BSPP	217
1"	1	64.0	1 5/8"	106.2	47.2	1 5/8"	25.2	73.8	37.7	H8-62-BSPP	906	H8-63-BSPP	341

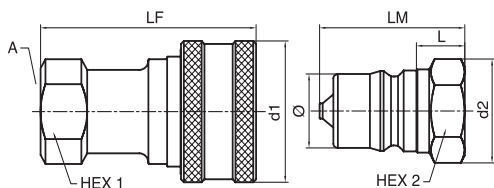
Female NPTF thread													
1/8"	1/8 - 27	24.4	11/16"	48.3	16.5	9/16"	11.2	32.0	10.8	H1-62	81	H1-63	18
1/4"	1/4 - 18	29.0	13/16"	57.4	21.9	3/4"	14.0	39.1	14.2	H2-62	138	H2-63	36
3/8"	3/8 - 18	35.4	7/8"	63.2	25.6	7/8"	13.1	42.7	19.1	H3-62	184	H3-63	56
1/2"	1/2 - 14	45.0	1 1/8"	72.9	33.0	1 1/8"	17.5	49.3	23.5	H4-62	341	H4-63	109
3/4"	3/4 - 14	54.4	1 5/16"	90.4	40.3	1 3/8"	20.1	61.7	31.4	H6-62	592	H6-63	210
1"	1 - 11 1/2	64.0	1 5/8"	106.2	47.8	1 5/8"	33.4	73.9	37.7	H8-62	914	H8-63	351



Body size inch	Thread A inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	L mm	LM mm	Ø mm	Part number female body	Part number male tip
Female BSPP thread											
1 1/2"	1 1/4	76.2	2 3/8"	123.4	69.9	2 3/8"	67.5	120.9	44.5	H12-62L-BSPP	H12-63L-BSPP
	1 1/2	76.2	2 3/8"	127.3	69.9	2 3/8"	71.1	124.7	44.5	H12-62N-BSPP	H12-63N-BSPP
2 1/2"	2	104.1	3 3/4"	145.0	104.1	3 3/4"	69.4	142.7	63.2	H2016-62-BSPP	H2016-63-BSPP
Female NPTF thread											
1 1/2"	1 1/4 - 11 1/2	76.2	2 3/8"	123.4	69.9	2 3/8"	67.3	120.9	44.5	H12-62L	H12-63L
	1 1/2 - 11 1/2	76.2	2 3/8"	123.4	69.9	2 3/8"	67.3	120.9	44.5	H12-62N	H12-63N
2 1/2"	2 - 11 1/2	104.1	3 3/4"	141.5	104.1	3 3/4"	65.9	139.2	63.2	H2016-62	H2016-63
	2 1/2 - 8	104.1	3 3/4"	153.4	104.1	3 3/4"	83.4	151.1	63.2	H2020-62	H2020-63

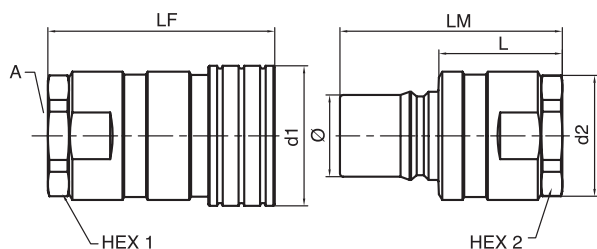
Note : Quick couplings with UNF thread are also available upon request. Please consult us for these configurations.

AISI 303 STAINLESS STEEL



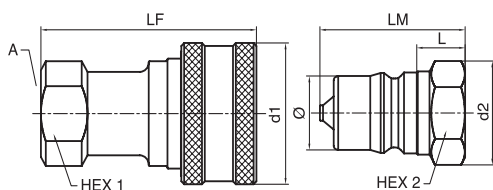
Body size inch	Thread A inch	d1 mm	Hex 1	LF mm	d2 mm	Hex 2	L mm	LM mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP thread													
1/8"	1/8	24.4	11/16"	48.3	16.4	9/16"	10.5	32.0	10.8	SH1-62-BSPP	81	SH1-63-BSPP	18
1/4"	1/4	29.0	19 mm	61.2	21.9	19 mm	16.6	39.1	14.2	SH2-62-BSPP	129	SH2-63-BSPP	36
3/8"	3/8	35.6	1"	69.9	25.7	7/8"	19.7	49.3	19.1	SH3-62-BSPP	245	SH3-63-BSPP	69
1/2"	1/2	45.0	1 1/8"	77.5	32.9	1 1/8"	21.1	54.1	23.5	SH4-62-BSPP	360	SH4-63-BSPP	122
3/4"	3/4	54.4	1 5/16"	93.2	40.3	1 3/8"	21.9	64.5	31.4	SH6-62-BSPP	603	SH6-63-BSPP	217
1"	1	64.0	1 5/8"	106.2	47.2	1 5/8"	25.2	73.8	37.7	SH8-62-BSPP	908	SH8-63-BSPP	345

Female NPTF thread													
1/8"	1/8 - 27	24.4	11/16"	48.3	16.5	9/16"	11.2	32.0	10.8	SH1-62	81	SH1-63	18
1/4"	1/4 - 18	29.0	13/16"	57.4	21.9	3/4"	14.0	39.1	14.2	SH2-62	128	SH2-63	37
3/8"	3/8 - 18	35.4	7/8"	63.2	25.6	7/8"	13.1	42.7	19.1	SH3-62	186	SH3-63	58
1/2"	1/2 - 14	45.0	1 1/8"	72.9	33.0	1 1/8"	17.5	49.3	23.5	SH4-62	341	SH4-63	109
3/4"	3/4 - 14	54.4	1 5/16"	90.4	40.3	1 3/8"	20.1	61.7	31.4	SH6-62	595	SH6-63	212
1"	1 - 11 1/2	64.0	1 5/8"	106.2	47.8	1 5/8"	33.4	73.9	37.7	SH8-62	924	SH8-63	356



Body size inch	Thread A inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	L mm	LM mm	Ø mm	Part number female body	Part number male tip
Female BSPP thread											
1 1/2"	1 1/2	76.2	2 1/2"	127.3	69.9	2 1/2"	67.5	124.7	44.5	SH12-62N-BSPP	SH12-63N-BSPP
Female NPTF thread											
1 1/2"	1 1/2 - 11 1/2	76.2	2 3/8"	123.4	69.9	2 3/8"	67.3	120.9	44.5	SH12-62N	SH12-63N

Note : Quick couplings with UNF thread are also available upon request. Please contact us for these configurations.

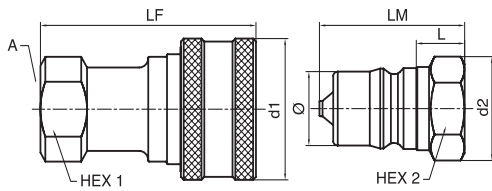
AISI 316 STAINLESS STEEL

Body size inch	Thread A inch	d1 mm	Hex 1	LF mm	d2 mm	Hex 2	L mm	LM mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP thread													
1/8"	1/8	24.0	14 mm	48.3	19.6	17 mm	10.5	32.0	10.8	SSH1-62Y-BSPP*	74	SSH1-63Y-BSPP*	22
1/4"	1/4	29.0	13/16"	61.2	21.9	3/4"	16.6	42.9	14.2	SSH2-62Y-BSPP*	46	SSH2-63Y-BSPP*	42
3/8"	3/8	35.6	1"	69.9	25.7	7/8"	19.7	49.3	19.1	SSH3-62Y-BSPP*	187	SSH3-63Y-BSPP*	60
1/2"	1/2	45.0	1 1/8"	77.5	32.9	1 1/8"	21.1	54.1	23.5	SSH4-62Y-BSPP*	367	SSH4-63Y-BSPP*	123
3/4"	3/4	54.4	1 5/16"	93.2	40.3	1 3/8"	21.9	64.5	31.4	SSH6-62Y-BSPP*	610	SSH6-63Y-BSPP*	218
1"	1	64.0	41 mm	106.2	47.2	41 mm	25.2	73.8	37.7	SSH8-62Y-BSPP*	899	SSH8-63Y-BSPP*	340
Filetage femelle NPTF													
1/8"	1/8 - 27	24.4	11/16"	48.3	16.5	9/16"	11.2	32.0	10.8	SSH1-62Y*	74	SSH1-63Y*	18
1/4"	1/4 - 18	29.0	13/16"	57.4	21.9	3/4"	14.0	39.1	14.2	SSH2-62Y*	138	SSH2-63Y*	37
3/8"	3/8 - 18	35.4	7/8"	63.2	25.6	7/8"	13.1	42.7	19.1	SSH3-62Y*	180	SSH3-63Y*	55
1/2"	1/2 - 14	45.0	1 1/8"	72.9	33.0	1 1/8"	17.5	49.3	23.5	SSH4-62Y*	346	SSH4-63Y*	109
3/4"	3/4 - 14	54.4	1 5/16"	90.4	40.3	1 3/8"	20.1	61.7	31.4	SSH6-62Y*	592	SSH6-63Y*	210
1"	1 - 11 1/2	64.0	1 5/8"	106.2	47.8	1 5/8"	33.4	73.9	37.7	SSH8-62Y*	901	SSH8-63Y*	345

*Suffix Y designates FKM (Viton™) seal.

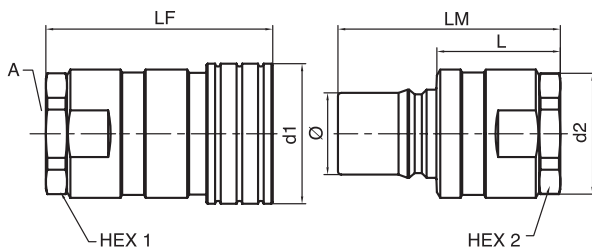
Note : Quick couplings with UNF thread are also available upon request. Please contact us for these configurations.

BRASS COUPLERS



Body size inch	Thread A inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	L mm	LM mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP thread													
1/8"	1/8	24.4	11/16"	48.3	16.4	9/16"	10.5	32.0	10.8	BH1-60-BSPP	87	BH1-61-BSPP	19
1/4"	1/4	29.0	13/16"	61.2	21.9	3/4"	16.6	42.9	14.2	BH2-60-BSPP	158	BH2-61-BSPP	45
3/8"	3/8	35.6	1"	69.9	25.7	7/8"	19.7	49.3	19.1	BH3-60-BSPP	260	BH3-61-BSPP	74
1/2"	1/2	45.0	1 1/8"	77.5	32.9	1 1/8"	21.1	54.1	23.5	BH4-60-BSPP	383	BH4-61-BSPP	131
3/4"	3/4	54.4	1 5/16"	93.2	40.3	1 3/8"	21.9	64.5	31.4	BH6-60-BSPP	642	BH6-61-BSPP	235
1"	1	64.0	1 5/8"	106.2	47.2	1 5/8"	25.2	73.8	37.7	BH8-60-BSPP	971	BH8-61-BSPP	368

Female NPTF thread													
1/8"	1/8 - 27	24.4	11/16"	48.3	16.5	9/16"	11.2	32.0	10.8	BH1-60	80	BH1-61	19
1/4"	1/4 - 18	29.0	13/16"	57.4	21.9	3/4"	14.0	39.1	14.2	BH2-60	145	BH2-61	46
3/8"	3/8 - 18	35.4	7/8"	63.2	25.6	7/8"	13.1	42.7	19.1	BH3-60	195	BH3-61	62
1/2"	1/2 - 14	45.0	1 1/8"	72.9	33.0	1 1/8"	17.5	49.3	23.5	BH4-60	365	BH4-61	118
3/4"	3/4 - 14	54.4	1 5/16"	90.4	40.3	1 3/8"	20.1	61.7	31.4	BH6-60	630	BH6-61	229
1"	1 - 11 1/2	64.0	1 5/8"	106.2	47.8	1 5/8"	33.4	73.9	37.7	BH8-60	980	BH8-61	378



Body size inch	Thread A inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	L mm	LM mm	Ø mm	Part number female body	Part number male tip
Female BSPP thread											
1 1/2"	1 1/4	76.2	2 3/8"	123.4	74.7	2 3/8"	67.5	120.9	44.5	BH12-60L-BSPP	BH12-61L-BSPP
	1 1/2	76.2	2 3/8"	127.3	74.7	2 3/8"	67.5	124.7	44.5	BH12-60N-BSPP	BH12-61N-BSPP
2 1/2"	2	101.1	3 3/4"	145.0	104.1	3 3/4"	77.3	142.7	63.2	BH2016-60-BSPP	BH2016-61-BSPP
Female NPTF thread											
1 1/2"	1 1/4 - 11 1/2	76.2	2 3/8"	123.4	69.9	2 3/8"	67.3	120.9	44.5	BH12-60L	BH12-61L
	1 1/2 - 11 1/2	76.2	2 3/8"	123.4	69.9	2 3/8"	67.3	120.9	44.5	BH12-60N	BH12-61N
2 1/2"	2 - 11 1/2	101.1	3 3/4"	141.5	104.1	3 3/4"	73.7	139.2	63.2	BH2016-60	BH2016-61

Note : Quick couplings with UNF thread are also available upon request. Please contact us for these configurations.

Options

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** and contact us.

Sleeve-lock:

60 series couplers (as well as sleeve type couplers) are available with safety locking sleeves. Please add the suffix **SL** to the part number, e.g. **H3-62SL** and contact us.

Seals:

Other seal materials (Ethylene Propylene - EPDM, Neoprene - CR, Perfluoroelastomer - Kalrez™) are available upon request. Please contact us for further information.

Dust caps and plugs

Body size inch	Plug part number for female body		Cap part number for male tip	
	Aluminium	Rubber	Aluminium	Rubber
1/8"	H1-65	H1-65M	H1-66	H1-66M
1/4"	H2-65	H2-65M	H2-66	H2-66M
3/8"	H3-65	H3-65M	H3-66	H3-66M
1/2"	H4-65	H4-65M	H4-66	H4-66M
3/4"	H6-65	H6-65M	H6-66	H6-66M
1"	H8-65	H8-65M	H8-66	H8-66M
1 1/2"	H12-65	-	H12-66	-



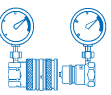
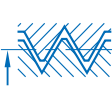
Stainless steel AISI 316 dust plugs and caps are available upon request. Please consult us.

Replacement seals

Body size inch	Body seal		Back-up ring* PTFE
	NBR (Nitrile)	FKM (Viton™)	
1/8"	JT020013N0674	JT020013V0747	H67A-28
1/4"	JT020015N0674	JT020015V0747	H67C-28
3/8"	JT020116N0674	JT020116V0747	4118007
1/2"	JT020213N0674	JT020213V0747	4128002
3/4"	JT020218N0674	JT020218V0747	4148001
1"	JT020222N0674	JT020222V0747	4158001
1 1/2"	JT020224N0674	-	-
	(2 body seals necessary)	-	-
2 1/2"	JT020333N0674	-	-



*Brass 60 series couplers use two O-rings but do not use a back-up ring.

										
Inter-changeable with similar models	Brass and stainless steel AISI 303	From 1/8" to 1 1/2"	max. 46 MPa	-40°C + 110°C	NBR (Nitrile)	Manual	No valving	-	Ball locking mechanism	BSPP BSPT NPTF

Main characteristics

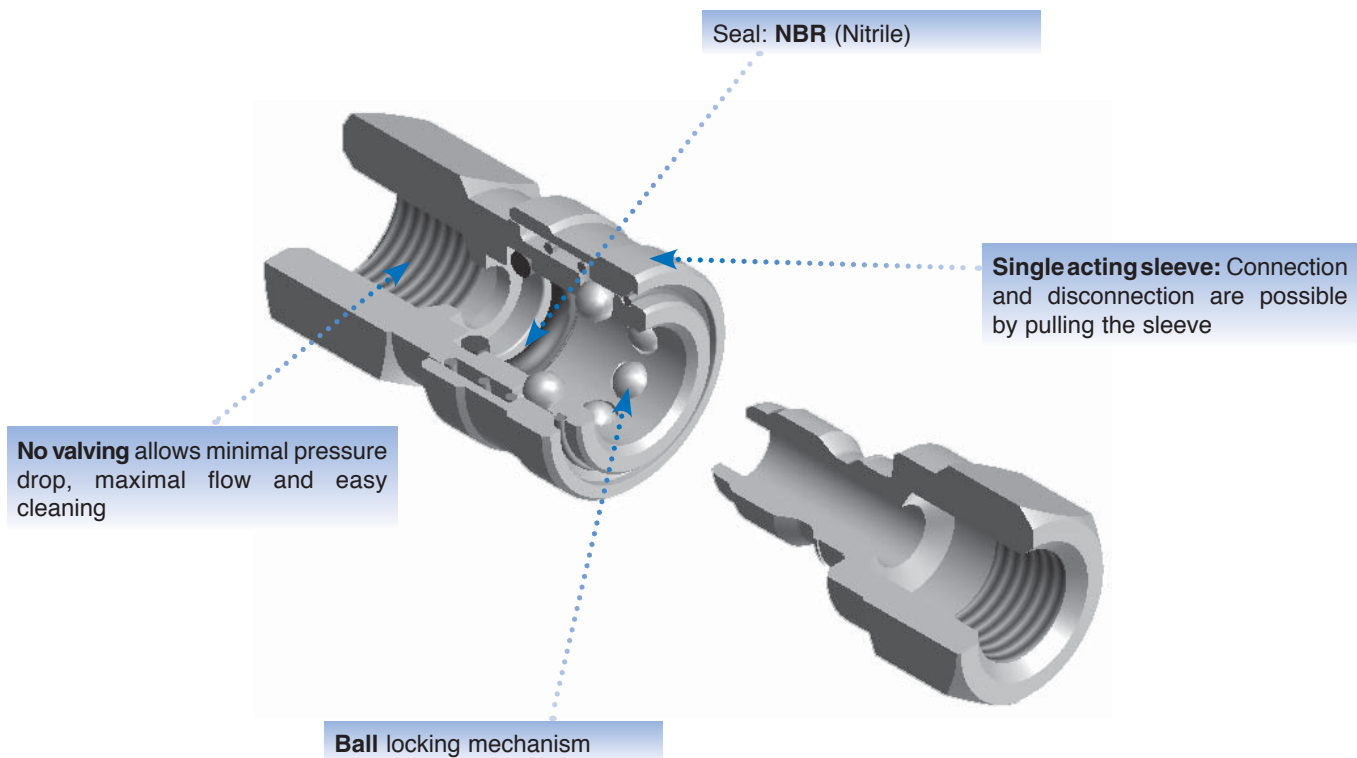
- *Non-valved couplings*
- *Maximal flow*
- *Minimal pressure drop*
- *Easy cleaning*

Applications

- Food industry
- High pressure water and steam washers
- Dye transfer lines
- Mould coolant lines
- Carpet cleaners



Technical features



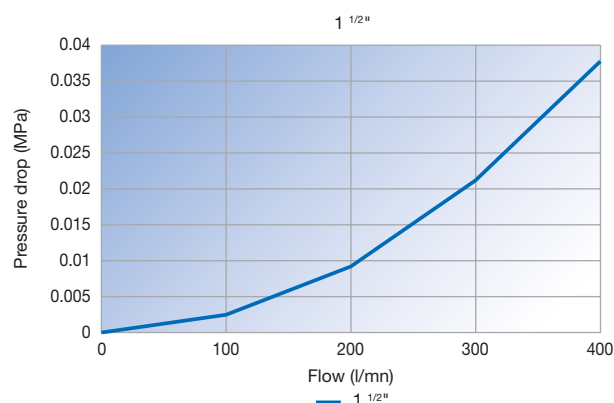
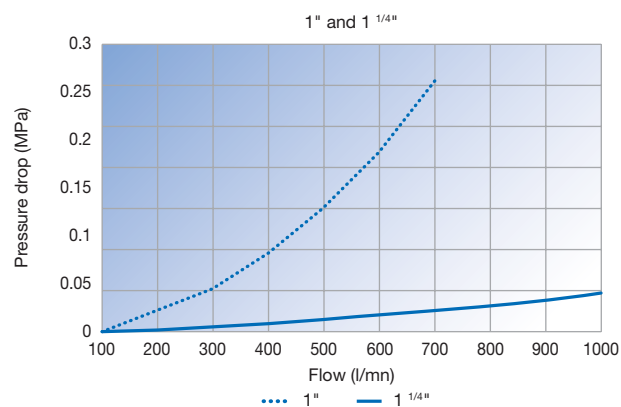
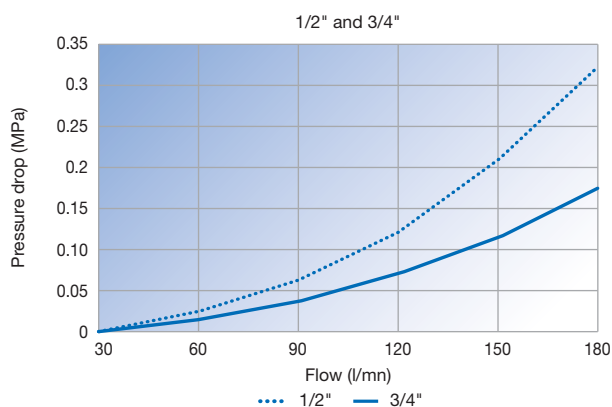
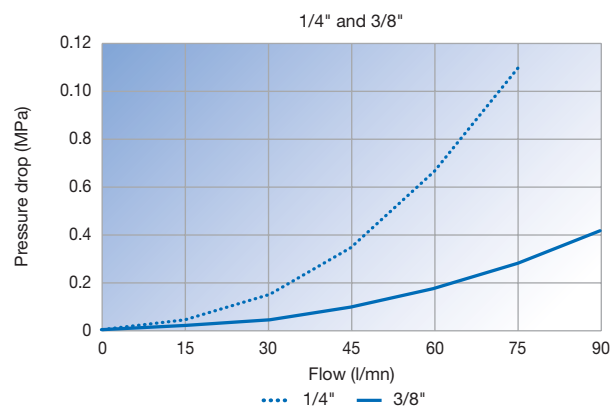
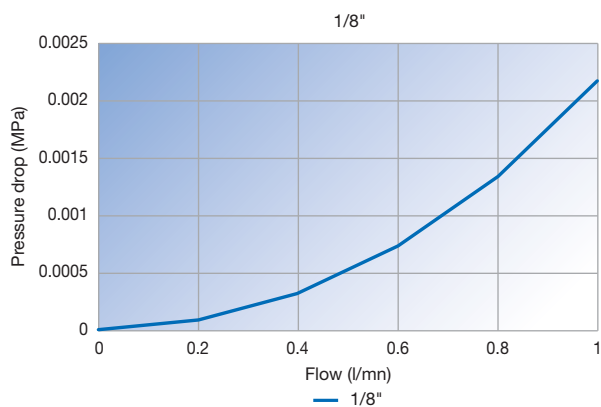
Technical performance data

Body size inch	Max operating pressure (MPa)	
	Brass	Stainless steel
1/8"	17.5	29.0
1/4"	36.0	46.0
3/8"	18.5	38.0
1/2"	15.0	21.0
3/4"	12.0	21.0
1"	8.0	12.0
1 1/4"	12.0	-
1 1/2"	9.5	-

Part number suffix	O-Ring compound		Temperature rang
	Standard	No suffix	
			NBR (Nitrile)
Option	W	EPDM (Ethylene Propylene)	-40°C +150°C
	Y	FKM (Viton™)	-20°C +200°C
	Z	CR (Neoprene)	-40°C +100°C

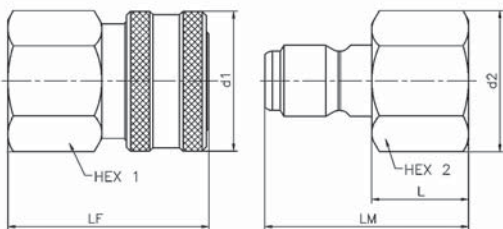
Pressure drop

Test with oil viscosity 43 cSt at 38°C



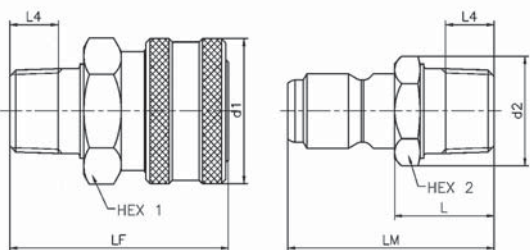
Dimensions and part numbers

Brass

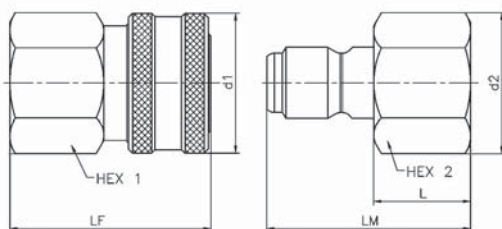


Body size inch	Thread inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	L mm	LM mm	Bore	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP thread													
1/4"	1/4	23.8	13/16"	39.1	21.9	3/4"	18.1	37.1	6.4	BST-2-BSPP	85	BST-N2-BSPP	40
3/8"	3/8	29.0	1"	41.7	25.6	7/8"	19.1	41.9	9.5	BST-3-BSPP	122	BST-N3-BSPP	57
1/2"	1/2	33.3	1 1/8"	50.3	32.9	1 1/8"	24.7	48.5	11.9	BST-4-BSPP	186	BST-N4-BSPP	110
3/4"	3/4	41.7	1 7/16"	54.6	40.2	1 3/8"	26.5	54.5	18.3	BST-6-BSPP	294	BST-N6-BSPP	172
1"	1	50.8	1 3/4"	61.7	47.5	1 5/8"	29.0	59.6	23.8	BST-8-BSPP	467	BST-N8-BSPP	271

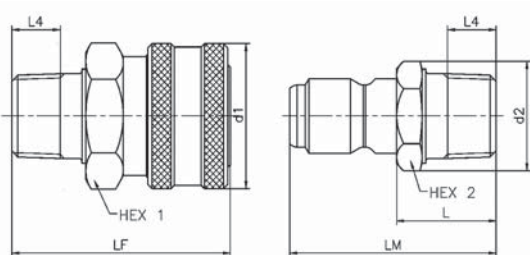
Female NPTF thread													
1/8"	1/8 - 27	17.5	9/16"	25.4	16.4	9/16"	14.3	24.6	4.4	BST-1	29	BST-N1	15
1/4"	1/4 - 18	23.8	13/16"	37.3	21.9	3/4"	18.1	37.1	6.4	BST-2	83	BST-N2	48
3/8"	3/8 - 18	29.0	1"	41.8	25.6	7/8"	19.1	41.3	9.5	BST-3	130	BST-N3	58
1/2"	1/2 - 14	33.3	1 1/8"	48.5	32.9	1 1/8"	24.7	48.5	11.9	BST-4	189	BST-N4	114
3/4"	3/4 - 14	41.7	1 7/16"	52.1	40.2	1 3/8"	26.5	54.5	18.3	BST-6	316	BST-N6	175
1"	1 - 11 1/2	50.8	1 3/4"	58.7	47.5	1 5/8"	29.0	59.6	23.8	BST-8	477	BST-N8	240
1 1/4"	1 1/4 - 11 1/2	64.0	2"	62.0	58.4	2"	29.2	60.3	30.2	BST-10	720	BST-N10	482
1 1/2"	1 1/4 - 11 1/2	76.2	2 1/2"	72.9	69.5	2 3/8"	29.7	71.3	38.1	BST-12	1176	BST-N12	688



Body size inch	Thread inch	d1 mm	Hex1 inch	LF mm	d2 mm	Hex2 inch	L mm	LM mm	L4 mm	Bore	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Male BSPT thread														
1/4"	1/4	-	-	-	16.4	9/16"	19.8	38.8	8.4	6.4	-	-	BST-N2M-BSPT	31
3/8"	3/8	-	-	-	20.1	11/16"	20.7	42.9	8.7	9.5	-	-	BST-N3M-BSPT	39
1/2"	1/2	-	-	-	25.6	7/8"	25.4	49.2	11.3	11.9	-	-	BST-N4M-BSPT	67
3/4"	3/4	-	-	-	31.0	1 1/16"	27.8	55.7	12.7	18.3	-	-	BST-N6M-BSPT	107
1"	1	-	-	-	40.2	1 3/8"	33.1	63.7	14.4	23.8	-	-	BST-N8M-BSPT	238
Male NPTF thread														
1/8"	1/8 - 27	17.5	9/16"	26.9	12.8	7/16"	15.9	26.3	9.5	4.4	BST-1M	24	BST-N1M	11
1/4"	1/4 - 18	23.8	13/16"	42.9	16.4	9/16"	19.8	38.8	13.5	6.4	BST-2M	92	BST-N2M	27
3/8"	3/8 - 18	29.0	1"	44.5	20.1	1 1/16"	20.7	42.9	14.5	9.5	BST-3M	108	BST-N3M	40
1/2"	1/2 - 14	33.3	1 1/8"	50.5	25.6	7/8"	25.4	49.2	19.1	11.9	BST-4M	152	BST-N4M	68
3/4"	3/4 - 14	41.7	1 7/16"	55.1	31.0	1 1/16"	27.8	55.7	13.9	18.3	BST-6M	227	BST-N6M	107
1"	1 - 11 1/2	50.8	1 3/4"	64.3	40.2	1 3/8"	33.1	63.7	25.4	23.8	BST-8M	402	BST-N8M	208

Stainless steel

Body size inch	Thread inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	L mm	LM mm	Bore	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP thread													
1/4"	1/4	23.8	13/16"	39.1	21.9	3/4"	18.1	37.1	6.4	SST-2-BSPP	74	SST-N2-BSPP	36
3/8"	3/8	29.0	1"	41.7	25.6	7/8"	19.1	41.3	9.5	SST-3-BSPP	115	SST-N3-BSPP	53
1/2"	1/2	33.3	1 1/8"	50.3	32.9	1 1/8"	24.7	48.5	11.9	SST-4-BSPP	172	SST-N4-BSPP	103
3/4"	3/4	41.7	1 7/16"	54.6	40.2	1 3/8"	26.5	54.5	18.3	SST-6-BSPP	268	SST-N6-BSPP	156
Female NPTF thread													
1/8"	1/8 - 27	17.5	9/16"	25.4	16.4	9/16"	14.3	24.8	4.4	SST-1	26	SST-N1	17
1/4"	1/4 - 18	23.8	13/16"	37.3	21.9	3/4"	18.1	37.1	6.4	SST-2	75	SST-N2	36
3/8"	3/8 - 18	29.0	1"	40.4	25.6	7/8"	19.1	41.3	9.5	SST-3	117	SST-N3	50
1/2"	1/2 - 14	33.3	1 1/8"	48.5	32.7	1 1/8"	24.7	48.5	11.9	SST-4	174	SST-N4	105
3/4"	3/4 - 14	41.7	1 7/16"	52.1	40.2	1 3/8"	26.5	54.5	18.3	SST-6	304	SST-N6	169
1"	1 - 11 1/2	50.8	1 3/4"	58.7	47.5	1 5/8"	29.0	59.6	23.8	SST-8	519	SST-N8	272



Body size inch	Thread inch	d1 mm	Hex1 inch	LF mm	d2 mm	Hex2 inch	L mm	LM mm	L4 mm	Bore	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Male NPTF thread														
1/8"	1/8 - 27	17.5	9/16"	26.9	12.8	7/16"	15.9	26.3	9.5	4.4	SST-1M	22	SST-N1M	10
1/4"	1/4 - 18	23.8	13/16"	42.9	16.4	9/16"	19.8	38.8	13.5	6.4	SST-2M	71	SST-N2M	24
3/8"	3/8 - 18	29.0	1"	44.5	20.1	11/16"	20.7	42.9	14.5	9.5	SST-3M	104	SST-N3M	41
1/2"	1/2 - 14	33.3	1 1/8"	50.5	25.6	7/8"	25.4	49.2	19.1	11.9	SST-4M	149	SST-N4M	64
3/4"	3/4 - 14	41.7	1 7/16"	55.1	31.0	1 1/16"	27.8	55.7	13.9	18.3	SST-6M	211	SST-N6M	100
1"	1 - 11 1/2	50.8	1 3/4"	64.3	40.2	1 3/8"	33.1	63.7	25.4	23.8	SST-8M	385	SST-N8M	198

Options

Sleeve-lock:

ST series couplers can be furnished with locking sleeves. Place suffix letters "SL" (Sleeve-lock) after regular catalog numbers. Example: SST-4MSL.

Material:

This series is also manufactured as an alternative in AISI 316 material. Please contact your Parker Account Manager.

Seals:

Standard seal material is Nitrile. Ethylene Propylene, Fluorocarbon, or Neoprene seals are available upon request. See Fluid Compatibility Chart for recommendations.

Replacements seals

Body size inch	O-Ring part number
1/8"	JT020010N0674
1/4"	JT020110N0674
3/8"	JT020112N0674
1/2"	JT020114N0674
3/4"	JT020212N0674
1"	JT020217N0674
1 1/4"	JT020222N0674
1 1/2"	JT020327N0674



			 max.							
-	Steel	1/4", 1/2", 3/4"	41 MPa	-40°C + 110°C	NBR (Nitrile)	Manual	Poppet	-	Ball locking mechanism	BSPP NPTF

Main characteristics

- Standard design for high pressure applications
- Rugged construction

Applications

- Mobile equipment
- Industrial maintenance



Technical features

Seal: **NBR** (Nitrile). 1/2" and above size feature PTFE back up ring which prevents seal washout at high flow rates

Ball locking mechanism

Solid steel barstock construction: induction-hardened for a quality coupling with maximum resistance to damage from hydraulic and mechanical shock and brinelling

Single acting sleeve: connection and disconnection are possible by pulling the sleeve

A poppet with a crimped seal assures a maximum sealing at low flow rates and prevents seal washout at high flow rates

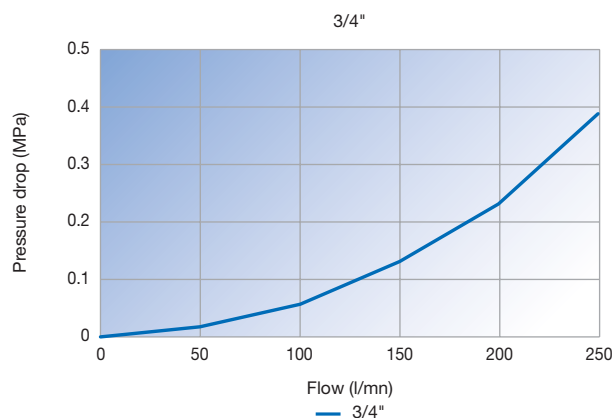
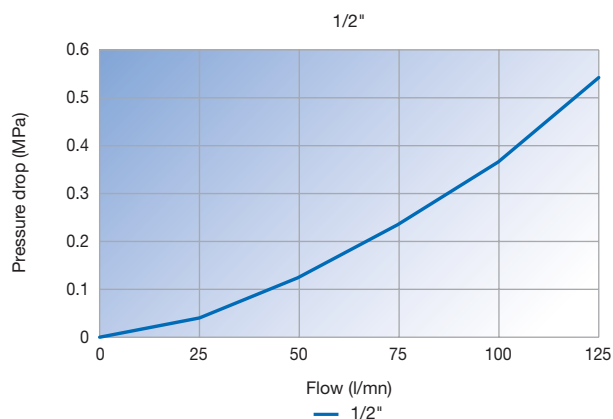
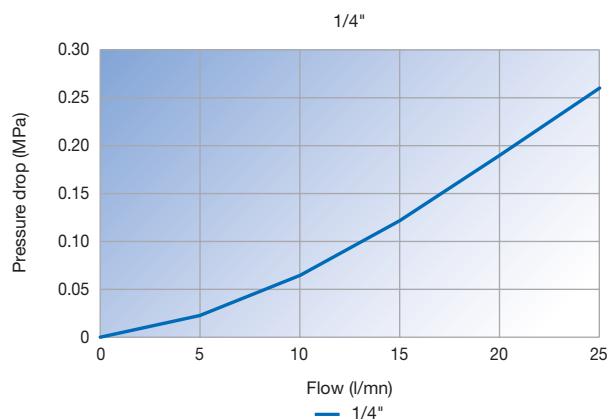
Technical performance data

Body size inch	Temperature range	Max operating pressure connected MPa	Min burst pressure connected MPa
1/4"	- 40°C	41.0	138.0
1/2"	+110°C	41.0	83.0
3/4"		31.0	69.0

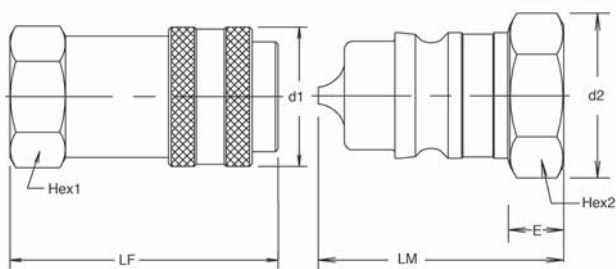
Burst pressure data: The lowest performance data uncoupled are shown in the above chart.

Pressure drop

Test with oil viscosity 43 cSt at 38°C



Dimensions and part numbers



Body size inch	Thread inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	E* mm	LM mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP thread												
1/4"	1/4	26.9	3/4"	56.9	22.1	3/4"	21.6	41.7	SM-251-4FB	128	SM-252-4FB	43
1/4"	3/8	26.9	15/16"	56.9	27.4	15/16"	25.7	41.7	SM-251-6FB	131	SM-252-6FB	63
1/2"	1/2	39.6	1 1/4"	76.2	31.2	1 1/16"	16.5	51.1	SM-501-8FB	329	SM-502-8FB	76
1/2"	3/4	39.6	1 3/8"	80.3	40.4	1 3/8"	27.9	66.8	SM-501-12FB	380	SM-502-12FB	156
3/4"	3/4	56.4	1 5/8"	98.8	43.9	1 1/2"	18.5	66.0	SM-751-12FB	853	SM-752-12FB	247
3/4"	1	56.4	1 5/8"	101.1	47.8	1 5/8"	22.1	68.3	SM-751-16FB	825	SM-752-16FB	239
Female NPTF thread												
1/4"	1/4 - 18	26.9	3/4"	53.1	22.1	3/4"	17.8	37.8	SM-251-4FP	110	SM-252-4FP	33
1/4"	3/8 - 18	26.9	15/16"	56.9	27.4	15/16"	25.7	41.7	SM-251-6FP	123	SM-252-6FP	67
1/2"	1/2 - 14	39.6	1 1/4"	76.2	31.2	1 1/16"	23.4	51.1	SM-501-8FP	319	SM-502-8FP	70
1/2"	3/4 - 14	39.6	1 3/8"	78.0	40.4	1 3/8"	20.3	58.7	SM-501-12FP	381	SM-502-12FP	151
3/4"	3/4 - 14	56.4	1 5/8"	95.8	43.9	1 1/2"	15.0	63.0	SM-751-12FP	822	SM-752-12FP	231
3/4"	1 - 11 1/2	56.4	1 5/8"	101.1	47.8	1 5/8"	22.1	68.3	SM-751-16FP	838	SM-752-16FP	278

E* = exposed length. This dimension represents the portion that is exposed when the nipple is inserted into the mating Parker coupler.

Dust caps and plugs

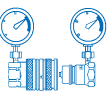
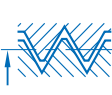
Body size inch	Plug part number for female body	Cap part number for male tip
Rubber		
1/4"	PR-25	CR-25
1/2"	DP-50	DC-50
Aluminium		
1/4"	P-25	C-25
1/2"	P-50	C-50
3/4"	P-75	C-75



Replacements seals

Body size inch	Plug part number for female body	Cap part number for male tip
1/4"	JT020113N0674	-
1/2"	JT020211N0674	50014-211
3/4"	JT020219N0674	50014-219



										
-	Steel	3/8" 1/2" 3/4" 1"	max. 17.5 MPa	-40°C + 110°C	NBR (Nitrile)	Manual	Flat-faced poppet	-	Ball locking mechanism	BSPF NPSF

Main characteristics

- Minimal fluid loss during disconnection
- Minimal pressure drop
- Minimal inclusion of air or dust during connection
- Easy connection even under "blind" conditions

Applications

- Maintenance of high-voltage power transmission lines
- Construction, railway maintenance and mining industry
- Inplant use where oil spillage can create a hazard
- Overhead bucket hoists



Technical features

Push to connect system: Push on the male tip to connect and pull on the sleeve to disconnect

Ball locking mechanism

Valving: flush-faced poppet for reduced spillage during disconnection. The seal is crimped to prevent seal washout at high flow rates

A safety sleeve lock prevents accidental disconnection. Sleeve is rotated to the stop to engage the lock

Seal: **NBR (Nitrile)**

Solid steel barstock construction: induction-hardened for a quality coupling with maximum resistance to damage from hydraulic and mechanical shock and brinelling

Technical performance data

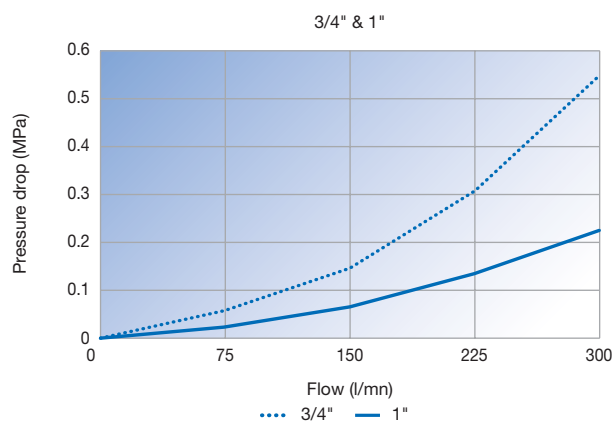
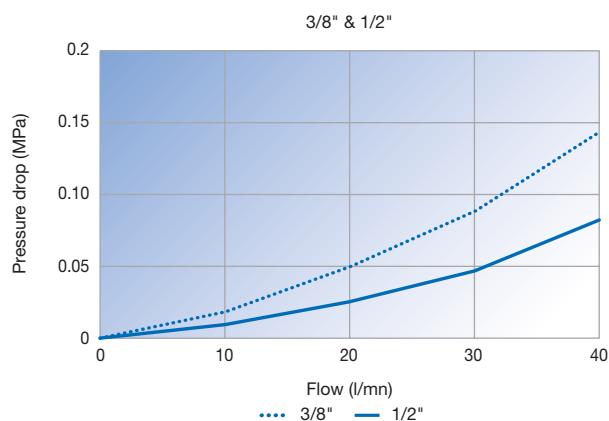
Body size inch	Temperature range	Max operating pressure MPa	Min burst pressure MPa	Spillage max per disconnection* (ml)	Air inclusion max per disconnection* (ml)
3/8"	- 40 °C +110°C	17.5	35.0	0.020	0.010
1/2"		17.5	35.0	0.070	0.020
3/4"		17.5	35.0	0.150	0.050
1"		17.5	35.0	0.220	0.070

* Test according to ISO 7241-2

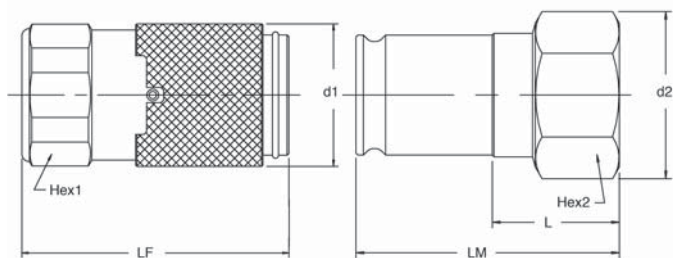
Burst pressure data : The lowest performance data uncoupled are shown in above chart.

Pressure drop

Test with oil viscosity 43 cSt at 38°C



Dimensions and part numbers



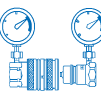
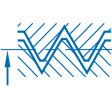
Body size inch	Thread inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	L mm	LM mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP thread												
3/8"	3/8	28.7	1 1/16"	53.3	27.4	15/16"	31.8	45.2	NS-371-6FB	164	NS-372-6FB	70
1/2"	1/2	39.2	1 1/4"	75.4	31.2	1 1/16"	21.1	49.5	NS-501-8FB	373	NS-502-8FB	106
3/4"	3/4	49.8	1 9/16"	85.3	40.4	1 3/8"	34.0	62.7	NS-751-12FB	711	NS-752-12FB	233
1"	1	57.2	1 3/4"	96.8	47.8	1 5/8"	42.7	70.6	NS-1001-16FB	775	NS-1002-16FB	355
Female NPSF thread*												
3/8"	3/8 - 18	28.7	1 1/16"	53.3	27.4	15/16"	29.7	43.2	NS-371-6FP	174	NS-372-6FP	73
1/2"	1/2 - 14	39.2	1 1/4"	73.2	31.2	1 1/16"	17.5	46.0	NS-501-8FP	389	NS-502-8FP	96
3/4"	3/4 - 14	49.8	1 9/16"	81.0	40.4	1 3/8"	28.4	57.2	NS-751-12FP	694	NS-752-12FP	237
1"	1 - 11 1/2	57.2	1 3/4"	94.0	47.8	1 5/8"	39.1	67.1	NS-1001-16FP	1065	NS-1002-16FP	326

***Note:** NPSF threads in this series are straight (cylindrical) instead of tapered.
These threads are primarily intended for assembly with full length NPTF external taper threads.

Protective cover fits either half

Body size inch	Part number
3/8"	NR-37
1/2"	NR-50
3/4"	NR-75
1"	NR-100



			 max.							
Inter-changeable with similar models	Brass and Stainless steel	1/4"	6.0 MPa	-20°C +200°C	FKM (Viton™)	Manual	Flat-faced poppet	-	Ball locking mechanism	BSPP, Metric

Main characteristics

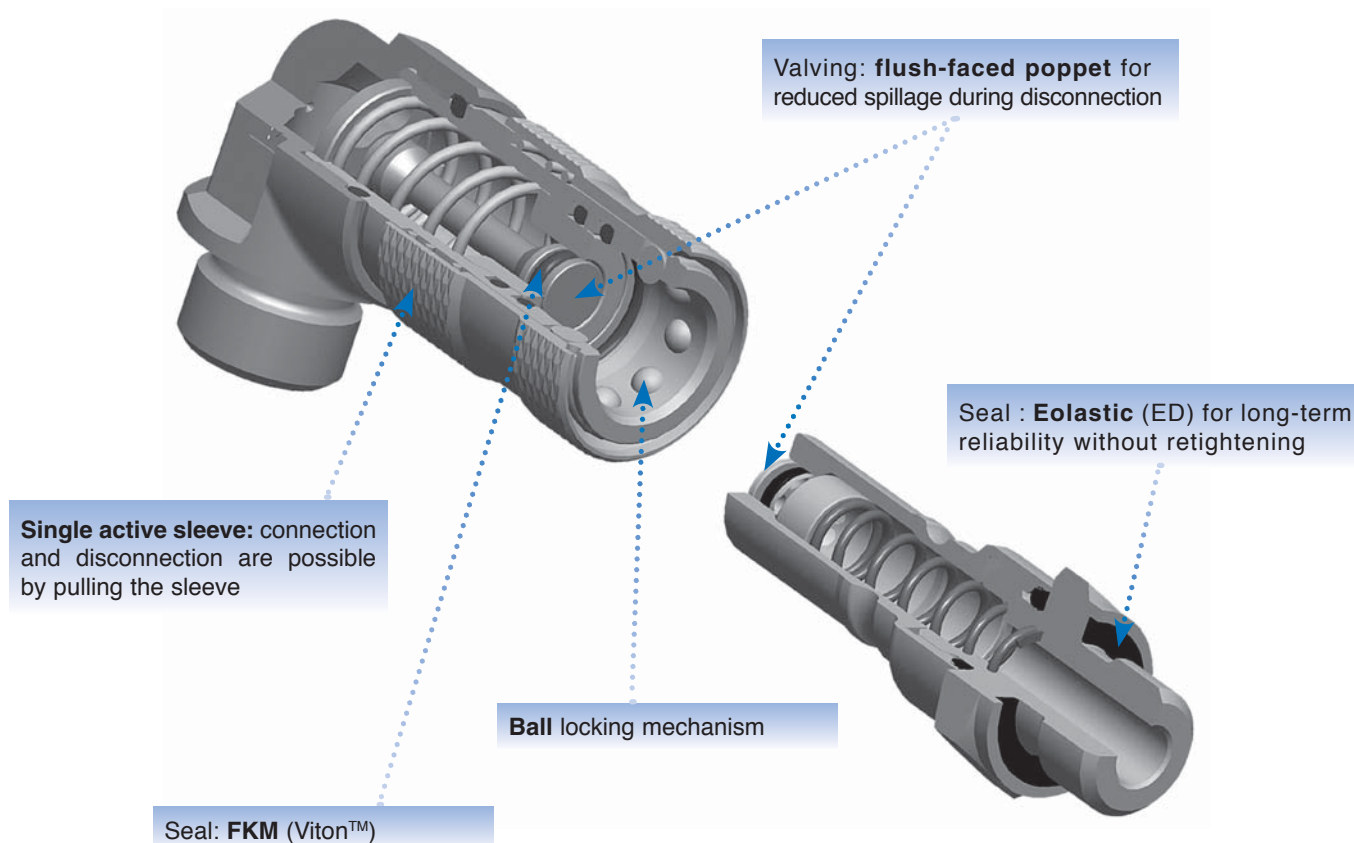
- Minimal fluid loss during disconnection
- Minimal inclusion of air or dust during connection
- Maximal flow
- Compact design

Applications

- Thermoplastic injection moulding: for cooling of machinery or temperatures control lines
- Can be used with cold and hot water as well as with heat transfer oils



Technical features

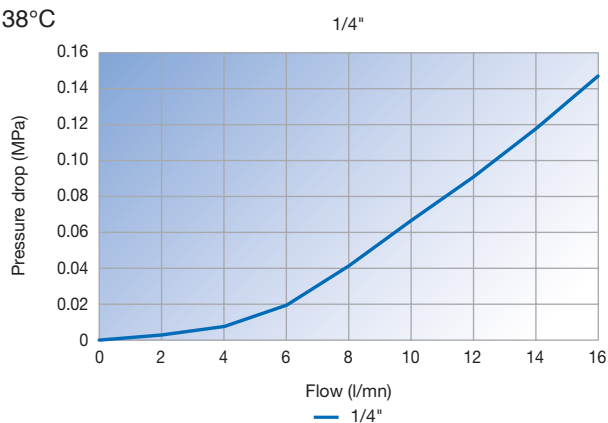


Technical performance data

Body size inch	Temperature range	Max operating pressure MPa	Min burst pressure MPa
1/4"	-20°C +200°C	6.0	20.0

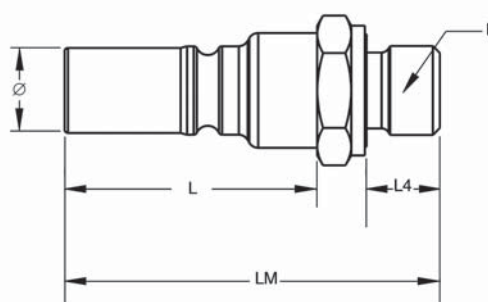
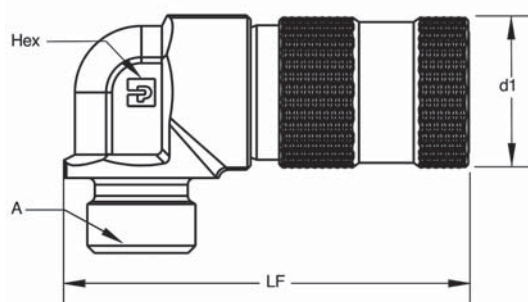
Pressure drop

Test with oil viscosity 43 cSt at 38°C



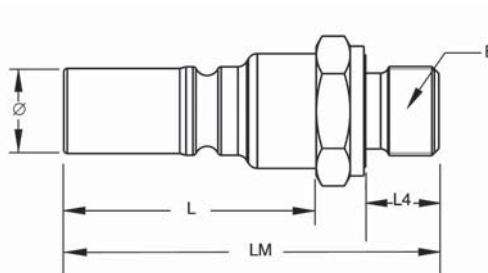
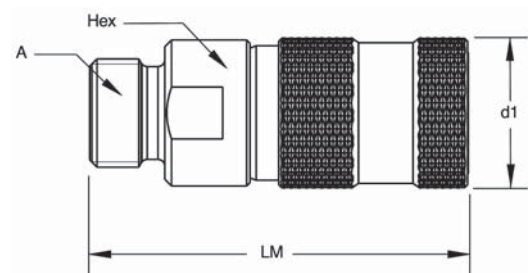
Dimensions and part numbers

Elbowed female version - 24° Cone - DIN 2353



Body size inch	Thread A metric	d1 mm	Hex1 mm	LF mm	L mm	Thread B BSPP	L4 mm	LM mm	LT connected mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
1/4	M16x1.5	22.0	17.0	59.2	37.0	1/4	11.0	55.0	89.0	12.5	NSI-251-C16MCL	108	NSI-252-4MBE	48

Straight female version - 24° Cone - DIN 2353



Body size inch	Thread A metric	d1 mm	Hex mm	LF mm	L mm	Thread B BSPP	L4 mm	LM mm	LT connected mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
1/4	M16x1.5	22.0	20.0	55.5	37.0	1/4	11.0	55.0	85.5	12.5	NSI-251-16MCL	84	NSI-252-4MBE	48

			 max.	 -20°C + 100°C	 NBR (Nitrile)	 Push-to- Connect	 Flush-faced poppet	 -	 Ball locking mechanism with security	 BSPP, metric
ISO 16028 and HTMA (for size 3/8")	Steel	From 1/4" to 1"	31.5 MPa	-20°C + 100°C	NBR (Nitrile)	Push-to- Connect	Flush-faced poppet	-	Ball locking mechanism with security	BSPP, metric

Main characteristics

- Meets the requirements of **ISO 16028**
- Minimal fluid loss during disconnection
- Minimal inclusion of air or external agents during connection
- Safety system protecting against accidental disconnection
- Modular construction: broad choice of end configurations
- Minimal pressure drop

Applications

- Hydraulic applications: excavators, rock hammers, drilling rigs
- Road service vehicles, snow ploughs...
- Difficult working conditions: pressure impulses



Technical features

Zinc plated steel with a yellow chromate finish

Seal: **NBR** (Nitrile)

Ball locking mechanism

Valving: **flush-faced poppet** for reduced spillage during disconnection. The seal is crimped to prevent seal washout at high flow rates

A **safety sleeve lock** prevents accidental disconnection. Sleeve is rotated to the stop to engage the lock

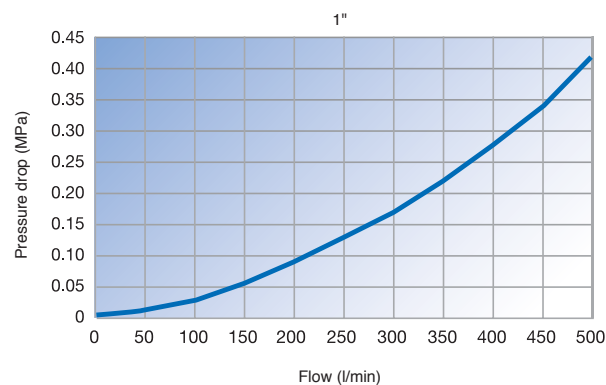
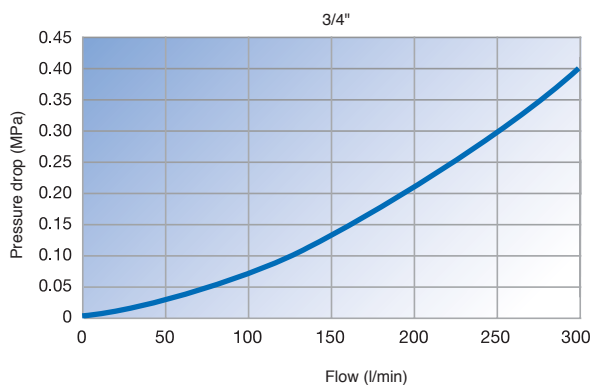
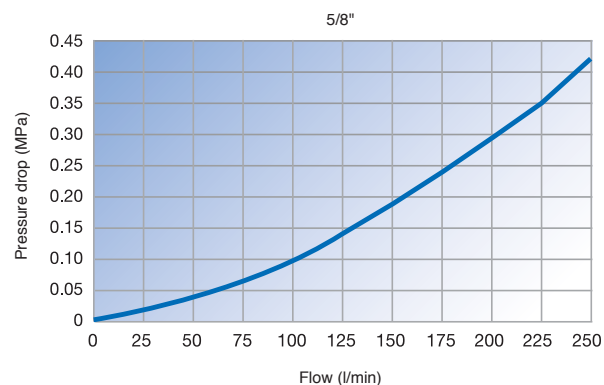
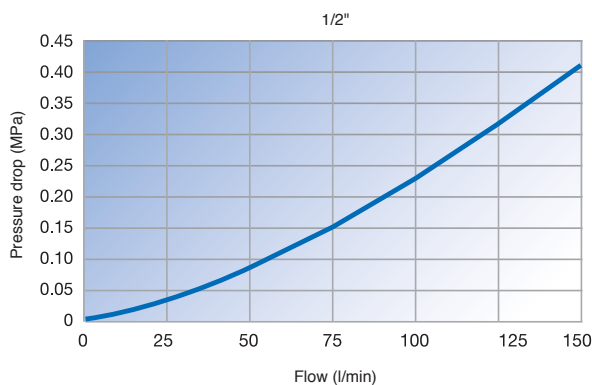
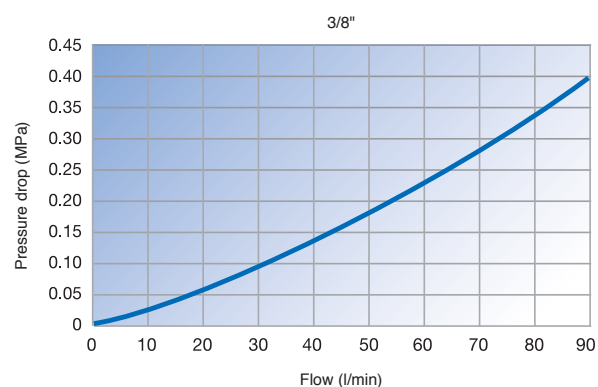
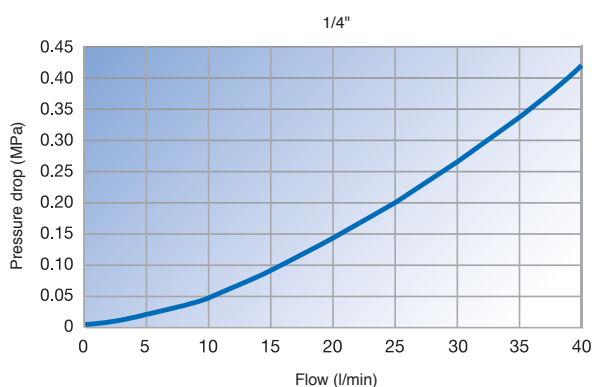
Push-to-connect system: push on the male tip to connect and pull on the sleeve to disconnect

Technical performance data

Body size inch	Temperature range	Max. operating pressure MPa	Min. burst pressure MPa
1/4"	-20°C + 100°C	31.5	126
3/8"		25.0	100
1/2"		25.0	100
5/8"		25.0	100
3/4"		25.0	100
1"		20.0	80

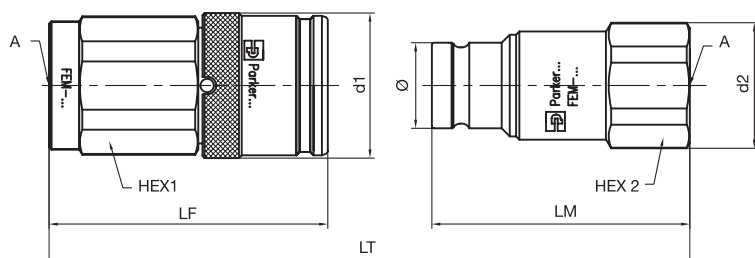
Pressure drop

Tests with oil viscosity 43 cSt at 38°C.



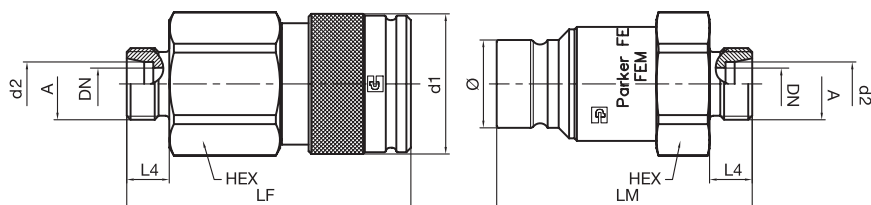
Dimensions and part numbers

Female BSPP thread - DIN 3852



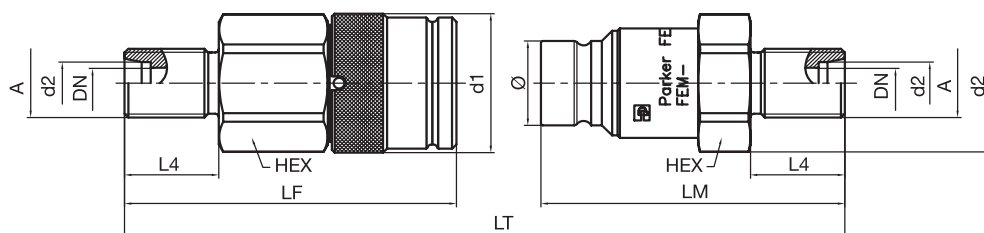
Body size inch	Thread A inch	d1 mm	Hex 1 mm	LF mm	d2 mm	Hex 2 mm	LM mm	LT connected mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP thread													
1/4"	1/4	29.5	27	53.1	23.8	22	47.9	90.2	16.1	FEM-251-4FB	193	FEM-252-4FB	86
3/8"	3/8	33.5	30	64.8	29.0	27	60.0	108.8	19.7	FEM-371-6FB	286	FEM-372-6FB	146
	1/2	33.5	30	69.8	29.0	27	62.5	116.3	19.7	FEM-371-8FB	286	FEM-372-8FB	146
1/2"	1/2	39.5	36	76.8	35.0	32	68.0	127.6	24.5	FEM-501-8FB	467	FEM-502-8FB	235
	3/4	39.5	36	83.8	40.0	36	70.5	137.1	24.5	FEM-501-12FB	477	FEM-502-12FB	273
5/8"	3/4	43.5	41	84.0	38.5	36	73.0	139.5	27.0	FEM-621-12FB	640	FEM-622-12FB	299
3/4"	1	49.5	46	98.8	49.8	46	83.7	160.7	30.0	FEM-751-16FB	983	FEM-752-16FB	475
1"	1 - 1/4	56.5	55	105.8	59.8	55	90.0	172.8	36.0	FEM-1001-20FB	1365	FEM-1002-20FB	706

24° Cone - DIN 2353



Body size inch	Series	Tube O/D D2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	d2 mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Male metric thread																
3/8"	L*	10	8	M16X1.5	33.5	30	69.6	32	65.5	119.1	11	19.7	FEM-371-16MCL	270	FEM-372-16MCL	155
	L*	12	10	M18X1.5	33.5	30	67.6	32	65.5	117.1	11	19.7	FEM-371-18MCL	262	FEM-372-18MCL	155
	L*	15	12	M22X1.5	33.5	30	68.6	32	66.5	119.1	12	19.7	FEM-371-22MCL	268	FEM-372-22MCL	161
1/2"	L*	12	10	M18X1.5	39.5	36	79.1	40	71.0	132.9	11	24.5	FEM-501-18MCL	433	FEM-502-18MCL	259
	L*	15	12	M22X1.5	39.5	36	80.1	40	72.0	134.9	12	24.5	FEM-501-22MCL	441	FEM-502-22MCL	265

*Light series

24° Cone - DIN 2353 - Bulkhead

Body size inch	Series	Tube O/D D2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	d2 mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Male metric thread																
3/8"	L*	10	8	M16X1.5	33.5	30	84.6	32.0	80.5	149.1	26	19.7	FEM-371-16BMCL	284	FEM-372-16BMCL	169
	L*	12	10	M18X1.5	33.5	30	82.6	32.0	80.5	147.1	26	19.7	FEM-371-18BMCL	279	FEM-372-18BMCL	171
	L*	15	12	M22X1.5	33.5	30	83.6	32.0	81.5	149.1	27	19.7	FEM-371-22BMCL	296	FEM-372-22BMCL	188
1/2"	L*	12	10	M18X1.5	39.5	36	94.1	40.0	86.0	162.9	26	24.5	FEM-501-18BMCL	451	FEM-502-18BMCL	275
	L*	15	12	M22X1.5	39.5	36	95.1	40.0	87.0	164.9	27	24.5	FEM-501-22BMCL	467	FEM-502-22BMCL	292

*Light series

Dust caps and plugs**Plastic**

Body size inch	Plug part number for female body	Cap part number for male tip
1/4"	PFE-251-P	CFE-252-P
3/8"	PFE-371-P	CFE-372-P
1/2"	PFE-501-P	CFE-502-P
5/8"	PFE-621-P	CFE-622-P
3/4"	PFE-751-P	CFE-752-P
1"	PFE-1001-P	CFE-1002-P

**Automatic dust cap for female body****Plastic**

Body size inch	Cap part number for male tip
1/2"	DFE-501-P

**Note :** Standard dust caps and plugs are red. Please consult us for other colours

										
-	Stainless steel	1/4" 3/8" 1/2" 3/4" 1"	max. 14 MPa	-20°C +200°C	FKM (Viton™)	Push- to- connect	Flat- faced poppet	-	Ball locking mechanism	BSPP NPT

Main characteristics

- Minimal fluid loss during disconnection
- Minimal pressure drop
- Minimal inclusion of air or dust during connection

Applications

- Chemical processing and dispensing
- Food processing
- Semiconductor equipment
- Corrosive applications
- Inplant use where oil spillage can create a hazard



Technical features

Seal: **FKM** (Viton™)

Ball locking mechanism

Valving: **flush-faced poppet** for reduced spillage during disconnection. The seal is crimped to prevent seal washout at high flow rates

Push to connect system: Push on the male tip to connect and pull on the sleeve to disconnect

Material: AISI 316 stainless steel

Technical performance data

Body size inch	Temperature range	Max operating pressure MPa	Min burst pressure MPa	Connection possible up to MPa	Spillage max per disconnection* (ml)	Air inclusion max per connection* (ml)
1/4"	- 20 °C +200°C	14.0	55.2	0.7	0.015	0.010
3/8"		14.0	31.0	0.7	0.015	0.020
1/2"		14.0	31.0	0.7	0.020	0.070
3/4"		14.0	31.0	0.7	0.150	0.100
1"		14.0	31.0	0.7	0.250	0.182

*Test according to ISO 7241-2

Burst pressure data: The lowest performance data uncoupled are shown in above chart.

Temperature rating

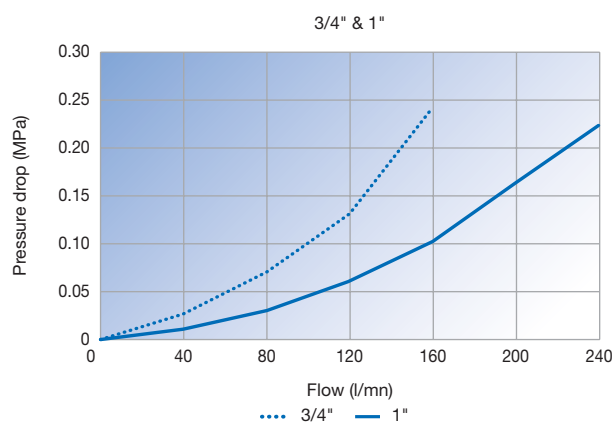
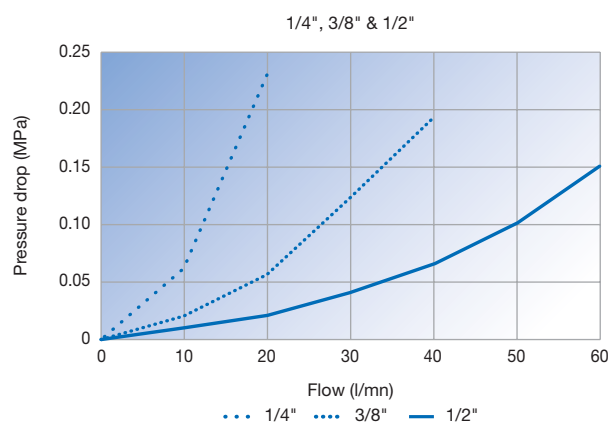
	Part number suffix	O-ring compound	Temperature range
Standard	-	FKM (Viton™)	-20°C +200°C
Option	E5	EPDM (Ethylene propylene)	-40°C +150°C
	E1	NBR (Nitrile)	-40°C +110°C
	E35	Perfluoroelastomer	-40°C +260°C

Sealing integrity: Coupling sealing integrity is approximately 1×10^{-6} std. cc/sec Helium under 50 millitorr of vacuum.

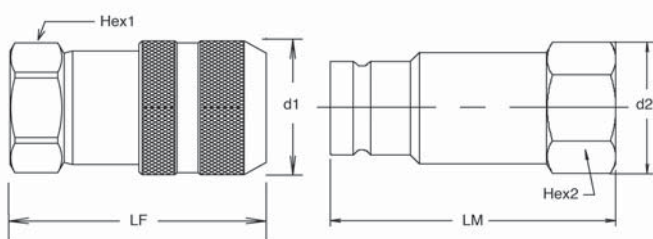
Vacuum rating: 0.05 mm Hg absolute pressure.

Pressure drop

Test with water



Dimensions and part numbers



Body size inch	Thread inch	d1 mm	Hex 1 inch	LF mm	d2 mm	Hex 2 inch	LM mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Male NPT thread											
1/4"	1/4 - 18	26.9	1"	50.5	26.9	1"	47.1	FS-251-4MP	118	FS-252-4MP	91
Female BSPP thread											
1/4"	1/4	26.9	1"	45.7	26.9	1"	42.2	FS-251-4FB	112	FS-252-4FB	91
3/8"	3/8	33.0	1 1/16"	64.0	27.4	1 5/16"	62.2	FS-371-6FB	264	FS-372-6FB	126
1/2"	1/2	40.1	1 3/8"	72.6	32.7	1 7/8"	72.4	FS-501-8FB	440	FS-502-8FB	212
3/4"	3/4	50.6	1 3/4"	94.8	43.9	1 1/2"	85.9	FS-751-12FB	955	FS-752-12FB	451
1"	1	56.6	1 7/8"	107.7	54.9	1 7/8"	97.8	FS-1001-16FB	1243	FS-1002-16FB	717
Female NPT thread											
1/4"	1/4 - 18	26.9	1"	45.7	26.9	1"	42.2	FS-251-4FP	110	FS-252-4FP	77
3/8"	3/8 - 18	33.0	1 1/16"	64.0	27.4	1 5/16"	58.7	FS-371-6FP	251	FS-372-6FP	118
1/2"	1/2 - 14	40.1	1 3/8"	69.4	32.7	1 7/8"	69.9	FS-501-8FP	435	FS-502-8FP	205
3/4"	3/4 - 14	50.6	1 3/4"	92.2	43.9	1 1/2"	85.9	FS-751-12FP	884	FS-752-12FP	457
1"	1 - 11 1/2	56.6	1 7/8"	105.0	54.9	1 7/8"	97.8	FS-1001-16FP	1312	FS-1002-16FP	821

Dust caps and plugs

Rubber

Body size inch	Plug part number for female body	Cap part number for male tip
1/4"	FR-25*	FR-25*
3/8"	NR-50	NR-37
1/2"	FR-501	FR-502
3/4"	FR-751	FR-752
1"	FR-1001	FR-1002

*FR-25 fits both halves



										
-	Polypropylene	1/2" 1" 2"	max. 0.7 MPa	+4°C + 60°C	FKM (Viton™)	Push-to-connect	Flat-faced poppet	-	Pawl locking	BSPP NPT

Main characteristics

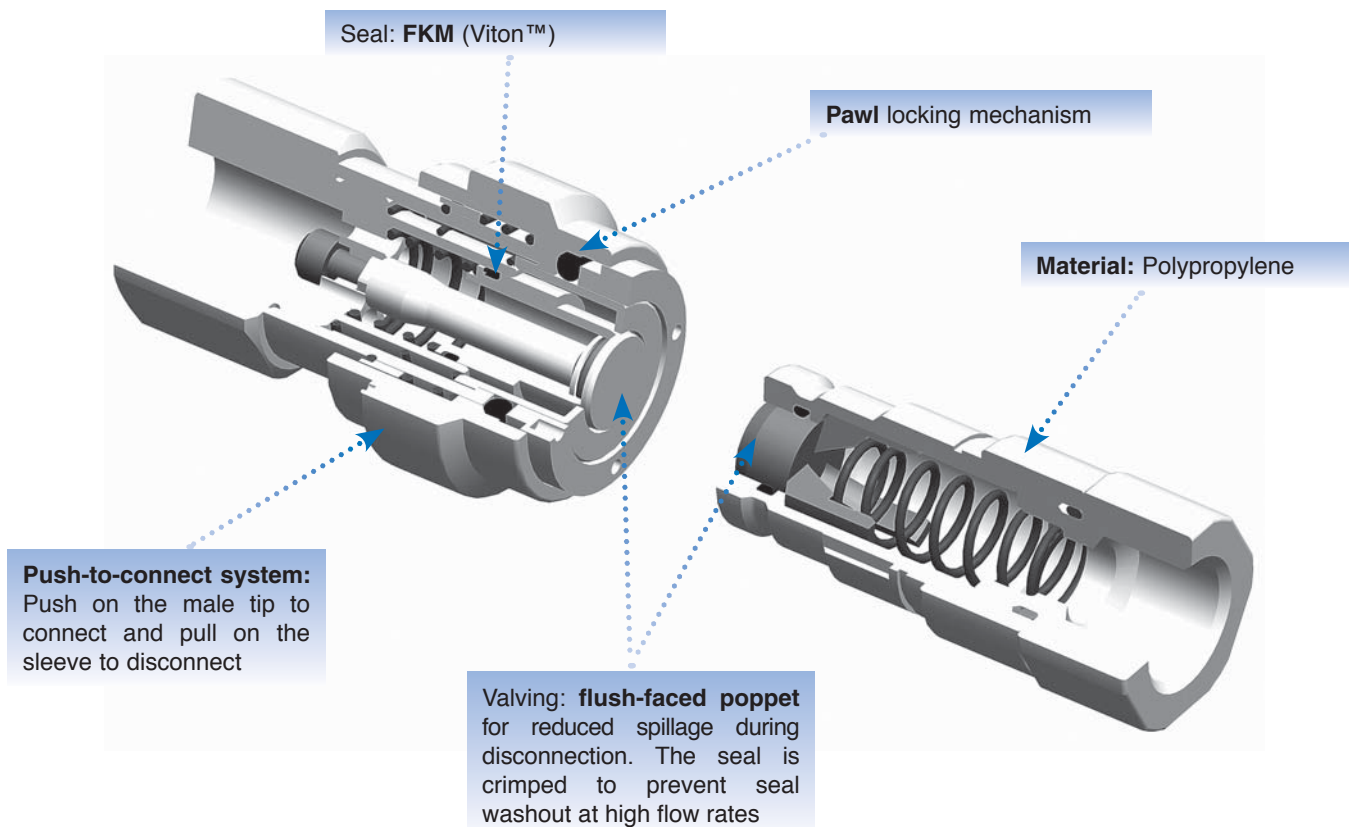
- Minimal fluid loss during disconnection
- Minimal inclusion of air or dust during connection
- Easy cleaning
- Broad compatibility with chemicals
- Light weight coupling

Applications

- Agricultural industry for transferring chemicals such as pesticides, herbicides, fungicides, bactericides
- Fluid transfer from bulk storage tanks or returnable containers to dispensing systems



Technical features



Technical performance data

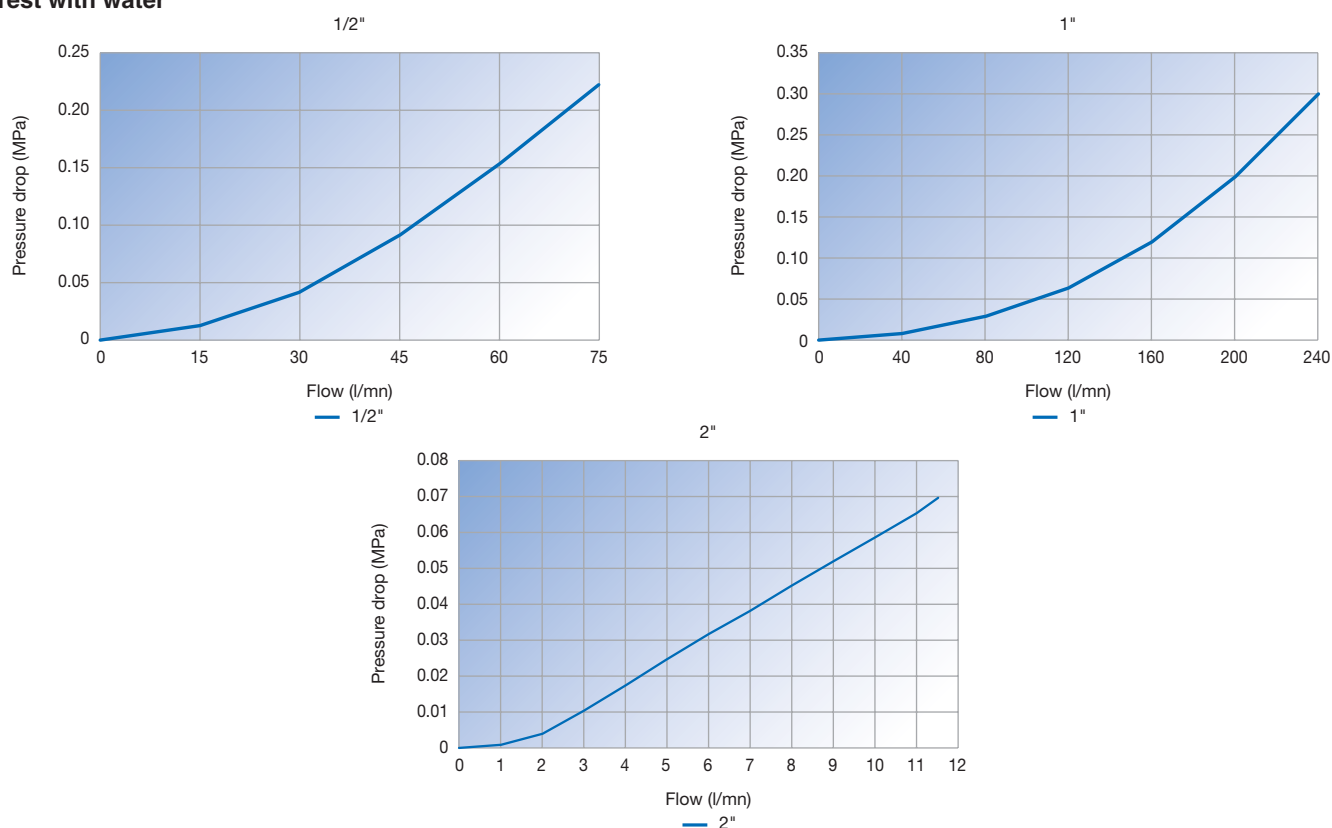
Body size inch	Temperature range	Rated pressure (MPa) at 20°C	Max force to connect daN	Max force to disconnect daN	Spillage max per disconnection* (ml)	Rated flow (l/min)
1/2"	+4°C	0.7	14.2	5.3	0.14	45
1"	+60°C	0.4	24.0	7.5	1	75
2"		0.7	18.2	7.5	9	190

Vacuum data: 696 mm Hg both connected and disconnected.

Caution: The female coupler and nipple must be replaced before the date shown on the product, or sooner if excessive wear, seal deterioration, leakage, corrosion, or other damage is apparent, whichever is earlier.

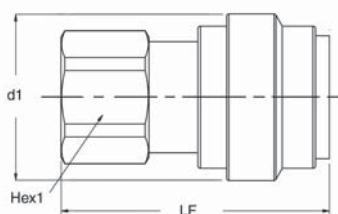
Pressure drop

Test with water



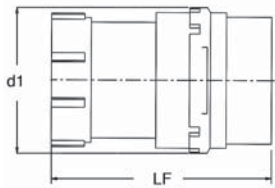
Dimensions and part numbers

Couplers



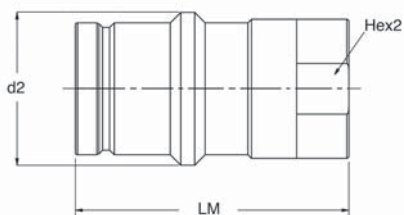
Body size inch	Thread inch	d1 mm	Hex1 inch	LF mm	Part number female body	Weight gr./piece
1/2"	1/2 - 14	47.8	1 3/8"	76.7	PF-501-8FP	84

Female NPT thread

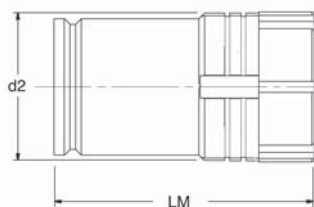


Body size inch	Thread inch	d1 mm	LF mm	Part number female body	Weight gr./piece
Female NPT thread					
1"	1 - 11 1/2	76.2	101.3	PF-1001-16FP	247
2"	2-11 1/2	127.0	168.4	PF-2001-32FP	794

Nipples

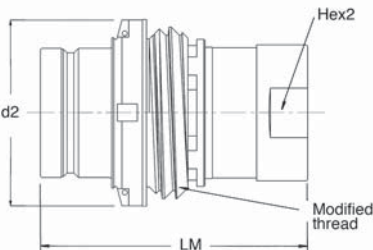


Body size inch	Thread inch	d2 mm	Hex2 inch	LM mm	Part number male tip	Weight gr./piece
Female NPT thread						
1/2"	1/2 - 14	33.8	1 1/4"	74.4	PF-502-8FP	38
1"	1 - 11 1/2	55.9	1 7/8"	99.8	PF-1002-16FP	210
Female BSPP thread						
1"	1	55.9	1 7/8"	99.8	PF-1002-16FB	144

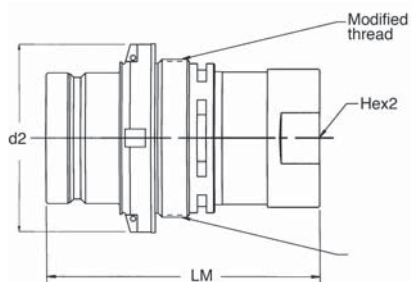


Body size inch	Thread inch	d2 mm	LM mm	Part number male tip	Weight gr./piece
Female NPT thread					
2"	2-11 1/2	90.2	145.0	PF-2002-32FP	340

Nipples -Tank Mount



Body size inch	Thread inch	Tank mount thread	d2 mm	Hex2 inch	LM mm	Part number female body	Weight gr./piece
Female NPT thread							
1"	1 - 11 1/2	Modified "Buttress"	69.9	1 7/8"	99.8	PF-1002-32MB	151



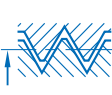
Body size inch	Thread inch	Tank mount thread	d2 inch	Hex2 inch	LM mm	Part number female body	Weight gr./piece
Female NPT thread							
1"	1 - 11 1/2 NPT	Modified NPS	69.6	1 7/8"	99.8	PF-1002-32MP	148

Dust caps and plugs

Body size inch	Material	Plug part number for female body	Cap part number for male tip
1/2"	Rubber	FR-501	FR-502
1"	EPDM (Ethylene Propylene)	-	PFR-1002
1"	EPDM (Ethylene Propylene)	-	PFR-1002-NS*

* For use with tank mount nipples



										
-	Brass	3/4", 1", 1 1/4", 1 1/2"	max. 21 MPa	-40°C + 110°C	NBR (Nitrile)	Screw- to- connect	Flat- faced poppet	Yes	Screw type	BSPP NPTF

Main characteristics

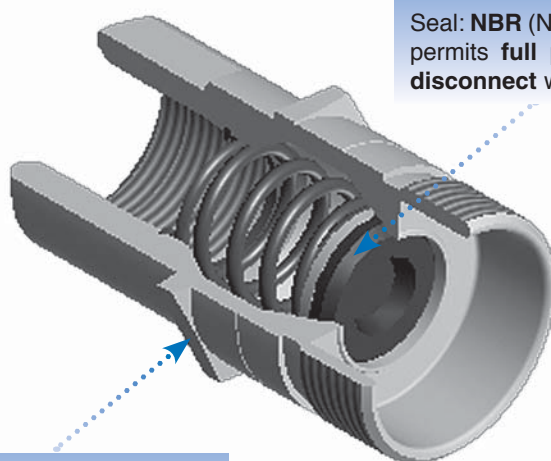
- *Screw-to-connect coupling*
- *Connection and disconnection possible with full system pressure*
- *Compatible with a broad range of media*
- *Little fluid spillage during disconnection*

Applications

- Dump trailers: to connect the tractor to wet-line hydraulic systems
- Connection of hydraulic lines on oil field equipment like power tongs, swivels and mobile drilling rigs
- Submersible pumps, engine test stands
- Applications where heavy-duty couplings are required



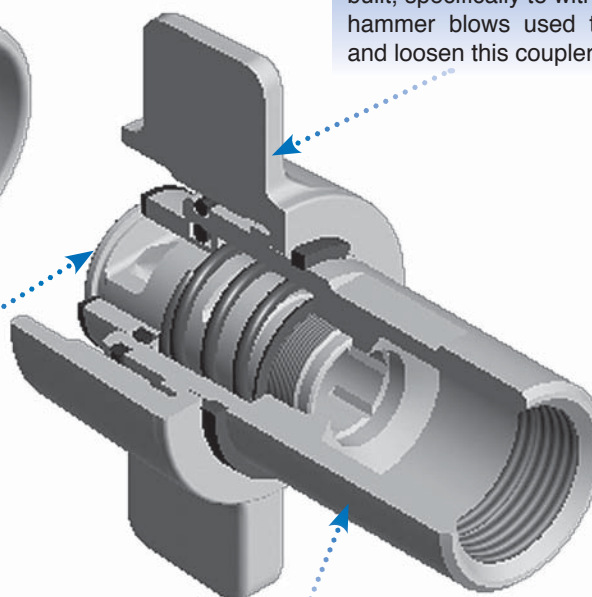
Technical features



Seal: **NBR** (Nitrile). Bonded valve seal permits **full pressure connect and disconnect** without seal washout

Connection indicator (Parker innovation): visual check for complete connection of the couplings

Valving: **flush-faced poppet** for reduced spillage during disconnection. The seal is crimped to prevent seal washout at high flow rates



Heavy-duty wing nut, ruggedly built, specifically to withstand the hammer blows used to tighten and loosen this coupler

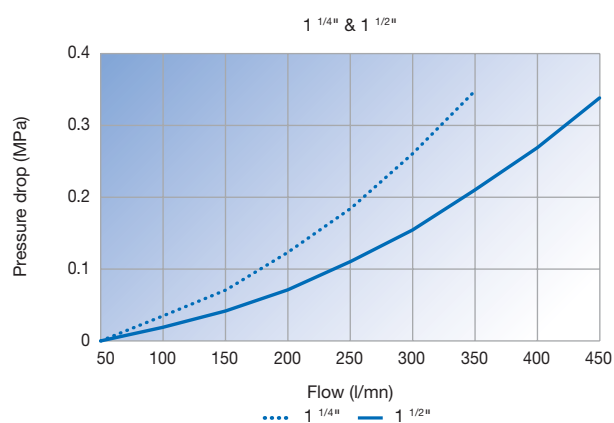
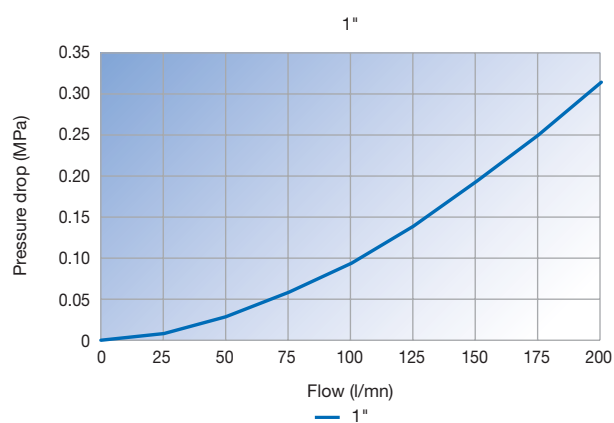
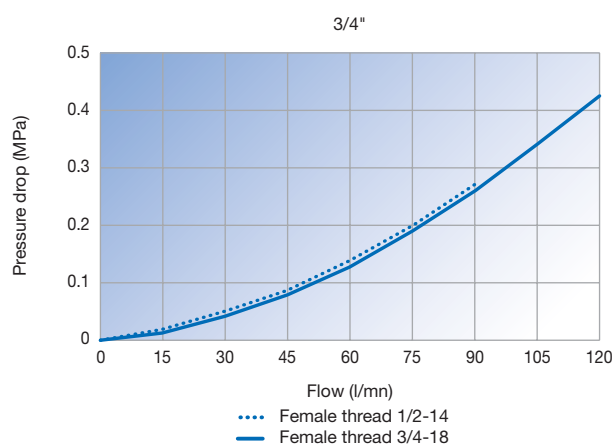
Corrosion resistant brass body

Technical performance data

Body size inch	Temperature range	Max operating pressure (MPa)		
		Female half	Male half	Connected
3/4"	-40°C +110°C	21.0	21.0	21.0
1"		21.0	21.0	21.0
1 1/4"		19.0	17.5	19.0
1 1/2"		14.0	17.5	17.5

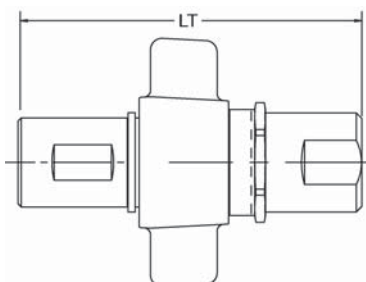
Pressure drop

Test with oil viscosity 43 cSt at 38°C



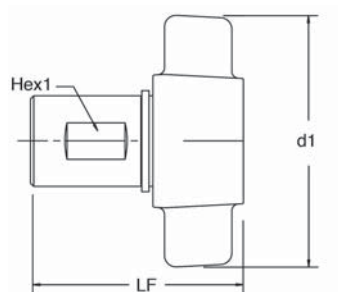
Dimensions and part numbers

Complete coupling with wing nut



Body size inch	Thread inch	LT connected	Part number with flange	Part number without flange
Female NPTF thread				
3/4"	1/2 - 14	132.1	6100-08	6120-08
3/4"	3/4 - 14	132.1	6100-12	6120-12
1"	1 - 11 1/2	152.1	6100-16	6120-16
1 1/4"	1 1/4 - 11 1/2	160.8	6100-20	6120-20
1 1/2"	1 1/2 - 11 1/2	166.4	6100-24	6120-24

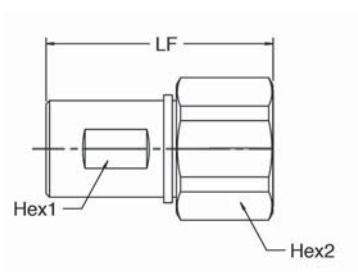
Female body with wing nut



Body size inch	Thread inch	d1 mm	Hex1 inch	LF mm	Part number	Weight gr./piece
Female BSPP thread						
3/4"	1/2	102.6	1 5/32"	75.9	6125-08-BSPP	600
3/4"	3/4	102.6	1 5/32"	79.8	6125-12-BSPP	560
1"	1	111.3	1 7/16"	96.5	6125-16-BSPP	869
1 1/4"	1 1/4	132.1	1 25/32"	103.8	6125-20-BSPP	1221
1 1/2"	1 1/2	135.1	2"	108.5	6125-24-BSPP	-
Female NPTF thread						
3/4"	1/2 - 14	102.6	1 5/32"	75.9	6125-08	590
3/4"	3/4 - 14	102.6	1 5/32"	79.8	6125-12	572
1"	1-11 1/2	111.3	1 7/16"	96.5	6125-16	857
1 1/4"	1 1/4 - 11 1/2	132.1	1 25/32"	103.8	6125-20	1288
1 1/2"	1 1/2 - 11 1/2	135.1	2"	108.5	6125-24	1687

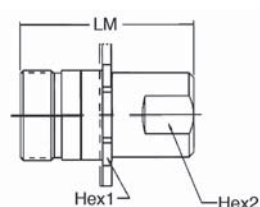
Dimensions and part numbers

Female body with hexagonal nut



Body size inch	Thread inch	Hex1 inch	Hex2 inch	LF mm	Part number	Weight gr./piece
Female NPTF thread						
3/4"	1/2 - 14	1 5/32"	1 3/4"	81.8	6135-08	485
3/4"	3/4 - 14	1 5/32"	1 3/4"	81.8	6135-12	485
1"	1 - 11 1/2	1 7/16"	2 1/8"	98.3	6135-16	739
1 1/4"	1 1/4 - 11 1/2	1 25/32"	2 1/2"	105.6	6135-20	1120

Male tip

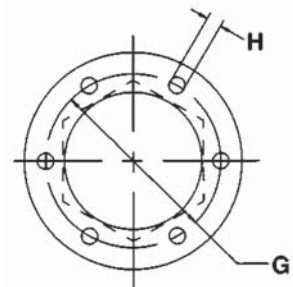


Body size inch	Thread inch	Hex1 inch	Hex2 inch	LF mm	Part number without flange	Weight gr./piece	Part number with flange
Female BSPP thread							
3/4"	1/2	1 5/8"	1 3/16"	79.0	6105-08-BSPP	416	-
3/4"	3/4	1 5/8"	1 3/16"	83.8	6105-12-BSPP	349	-
1"	1	1 7/8"	1 9/16"	90.2	6105-16-BSPP	571	-
1 1/4"	1 1/4	2 1/8"	1 7/8"	94.2	6105-20-BSPP	754	-
1 1/2"	1 1/2	2 1/2"	2 3/16"	104.6	6105-24-BSPP	1155	-
Female NPTF thread							
3/4"	1/2 - 14	1 5/8"	1 3/16"	79.0	6105-08	374	6115-08
3/4"	3/4 - 14	1 5/8"	1 3/16"	82.0	6105-12	358	6115-12
1"	1 - 11 1/2	1 7/8"	1 9/16"	90.2	6105-16	589	6115-16
1 1/4"	1 1/4 - 11 1/2	2 1/8"	1 7/8"	94.2	6105-20	741	6115-20
1 1/2"	1 1/2 - 11 1/2	2 1/2"	2 3/16"	104.6	6105-24	988	6115-24

Flange

Steel

Body size inch	H	G	Part number
3/4"	5.1	54.0	6107-08

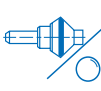
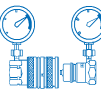


Dust caps and plugs

Brass

Body size inch	Plug part number for female body	Cap part number for male tip
3/4"	6109-08	6108-08
1"	6109-16	6108-16
1 1/4"	6109-20	6108-20
1 1/2"	6109-24	6108-24



			 max.							
Inter-changeable with similar models	Steel	1/4"	150 MPa	-30°C + 100°C	NBR (Nitrile)	Manual	Flat-faced poppet	-	Ball locking mechanism with security	BSPP

Main characteristics

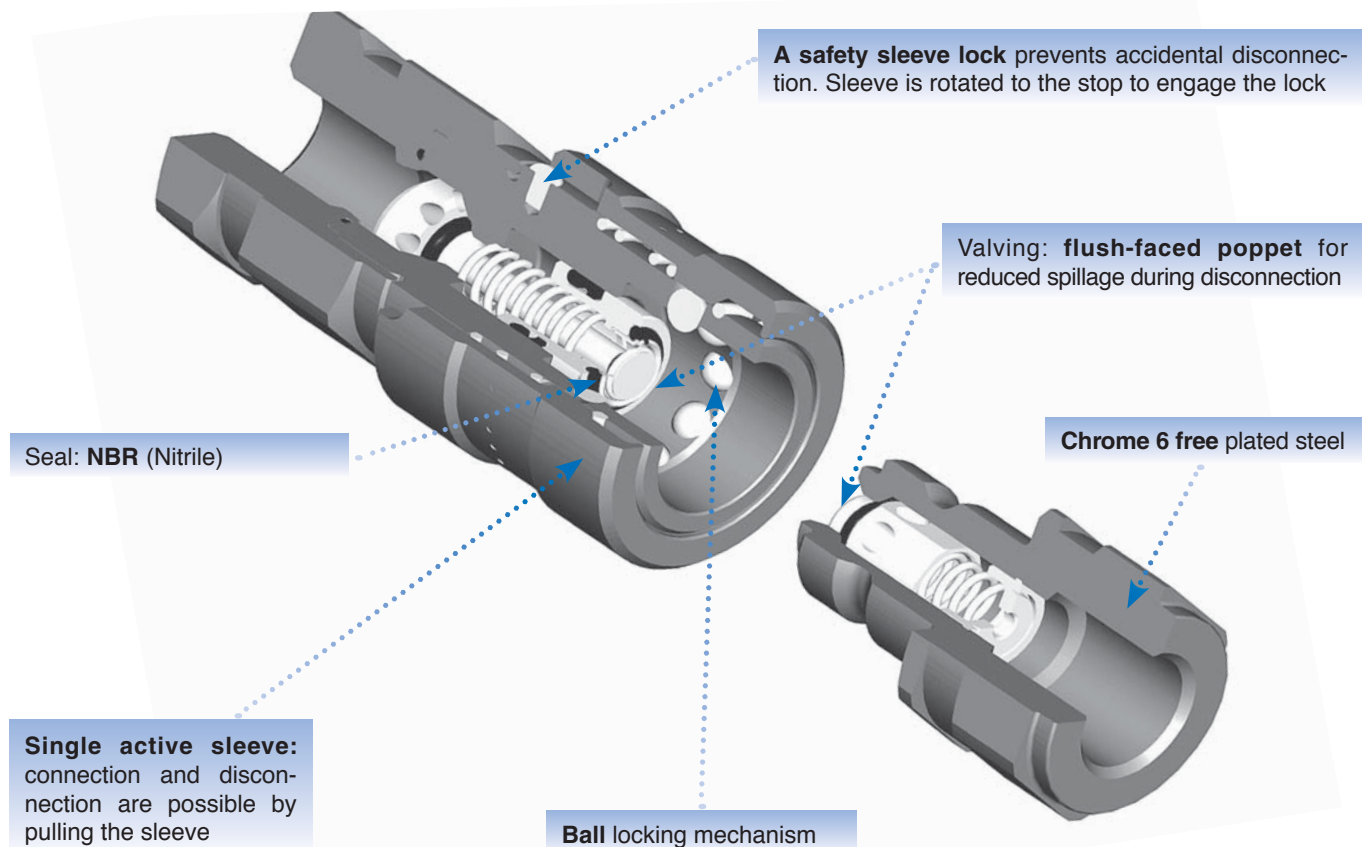
- High pressure coupling up to 150 MPa
- Interchangeable with similar models
- Reduced spillage
- Maximal security due to a positive locking mechanism

Applications

- Very high pressure hydraulic equipment, clamping devices, torques wrenches, nut runners
- Cable cutters
- Knockout punches



Technical features



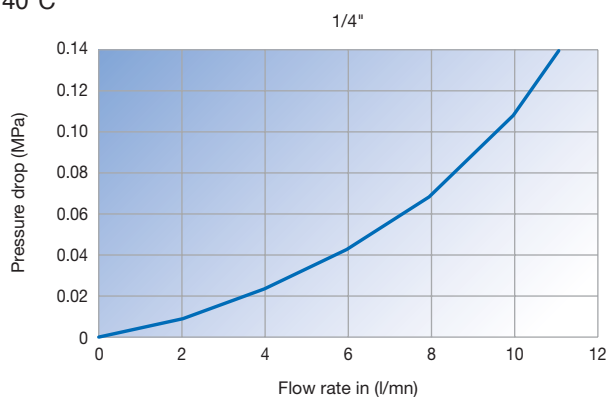
Technical performance data

Body size inch	Temperature range	Max operating pressure MPa	Min burst pressure MPa	Spillage max per disconnection* (ml)
1/4"	-30°C +100°C	150	>350	0.025

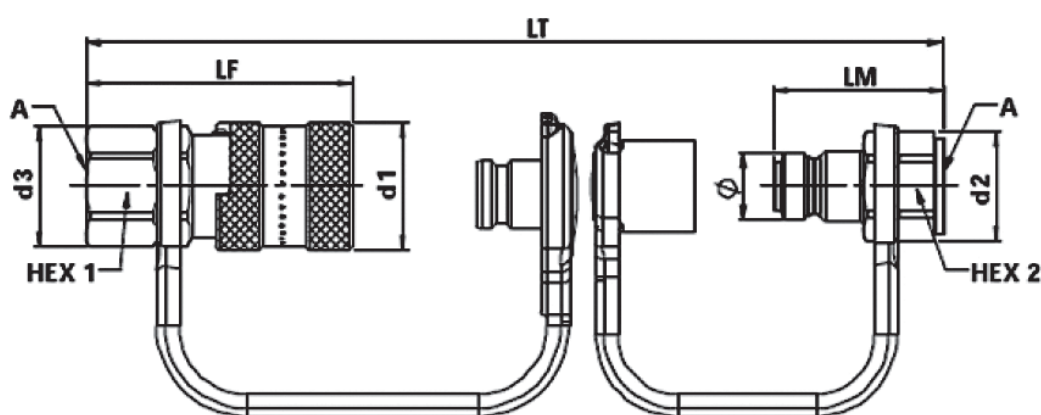
*Test according to ISO 7241-2

Pressure drop

Test with oil viscosity 32 cSt at 40°C



Dimensions and part numbers



Body size inch	Thread A BSP	d1 mm	d3 mm	Hex1 mm	LF mm	d2 mm	Hex2 mm	LM mm	LT mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
1/4"	1/4"	28.2	26.8	24.0	59.5	24.5	22.0	38.0	79.5	14.9	CM-251-4FB-PLP*	192	CM-252-4FB-PLC**	69

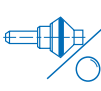
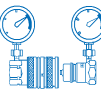
* with plug

** with cap

Dust caps and plugs

Body size inch	Plug part number for female body	Cap part number for male tip
1/4"	CPP-253	CPC-254



			 max.							
Inter-changeable with similar models	Steel	1/4"	100 MPa	-30°C + 100°C	NBR (Nitrile)	Manual	Flat-faced poppet	-	Ball locking mechanism with security	BSPP

Main characteristics

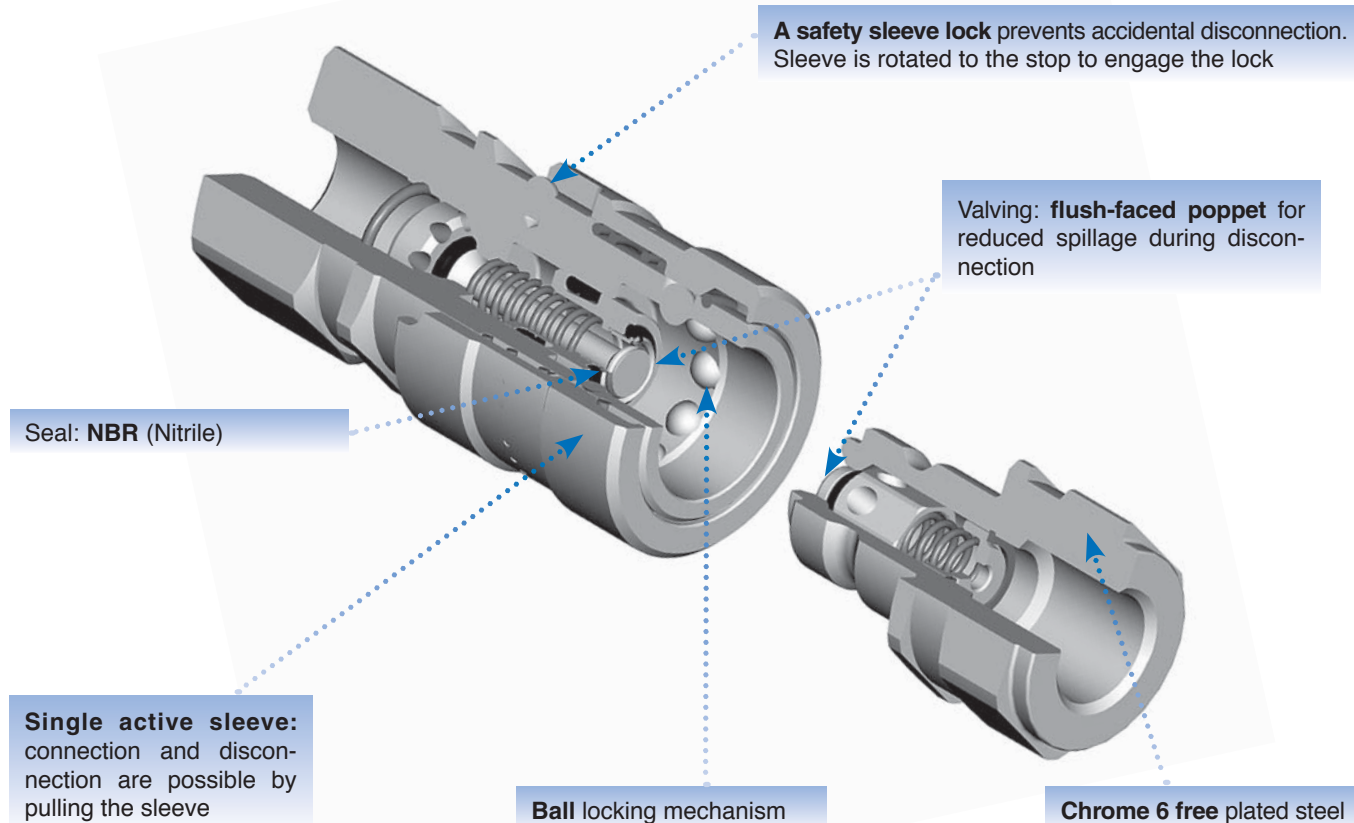
- High pressure coupling up to 100 MPa
- Interchangeable with similar models
- Reduced spillage
- Maximal security due to a positive locking mechanism

Applications

- Rescue equipment: lifting bags, spreaders, cutters,...
- Very high pressure hydraulic equipment: hydraulic jacks, rams, clamping devices, torques wrenches, cables cutters.



Technical features



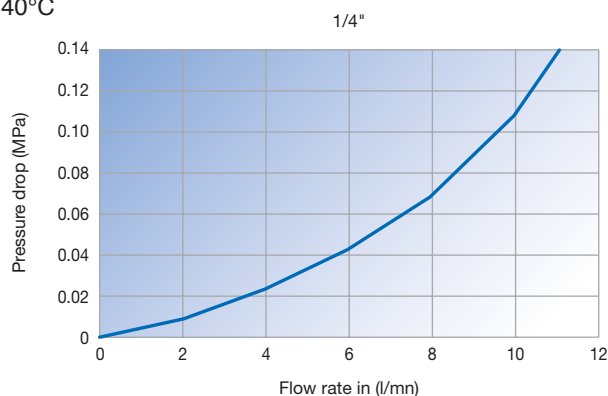
Technical performance data

Body size inch	Temperature range	Max operating pressure MPa	Min burst pressure MPa	Spillage max per disconnection* (ml)
1/4"	-30°C +100°C	100	>300	0.025

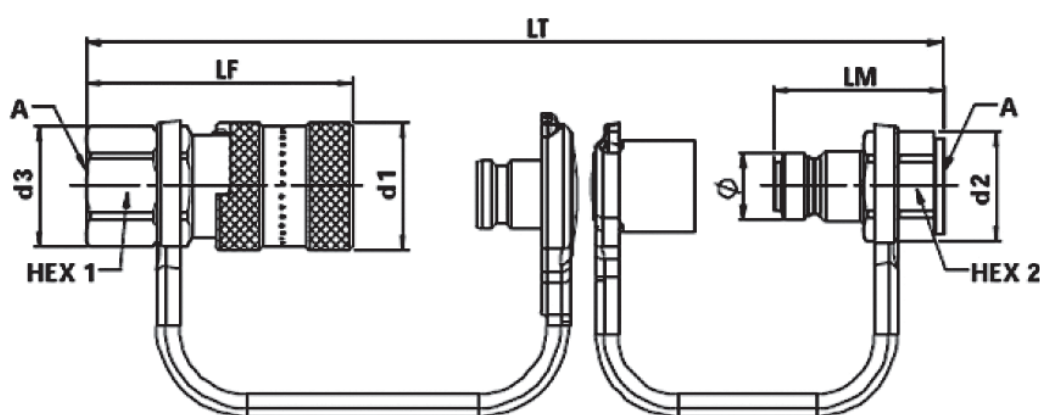
*Test according to ISO 7241-2

Pressure drop

Test with oil viscosity 32 cSt at 40°C



Dimensions and part numbers



Body size inch	Thread A BSPP	d1 mm	d3 mm	Hex1 mm	LF mm	d2 mm	Hex2 mm	LM mm	LT mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
1/4"	1/4"	28.2	26.8	24.0	59.0	24.5	22.0	38.0	79.0	14.9	CL-251-4FB-PLP*	192	CL-252-4FB-PLC**	69

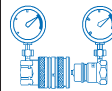
* with plug

** with cap

Dust caps and plugs

Body size inch	Plug part number for female body	Cap part number for male tip
1/4"	CPP-253	CPC-254



										
Inter-changeable with similar models	Steel	1/4" & 3/8"	max. 70 MPa	-30°C + 110°C (NBR seal) -30°C + 80°C (polyurethane seal)	NBR (1/4") Polyurethane (3/8")	Screw-to-connect	Ball or poppet	-	Screw mechanism	NPTF

Main characteristics

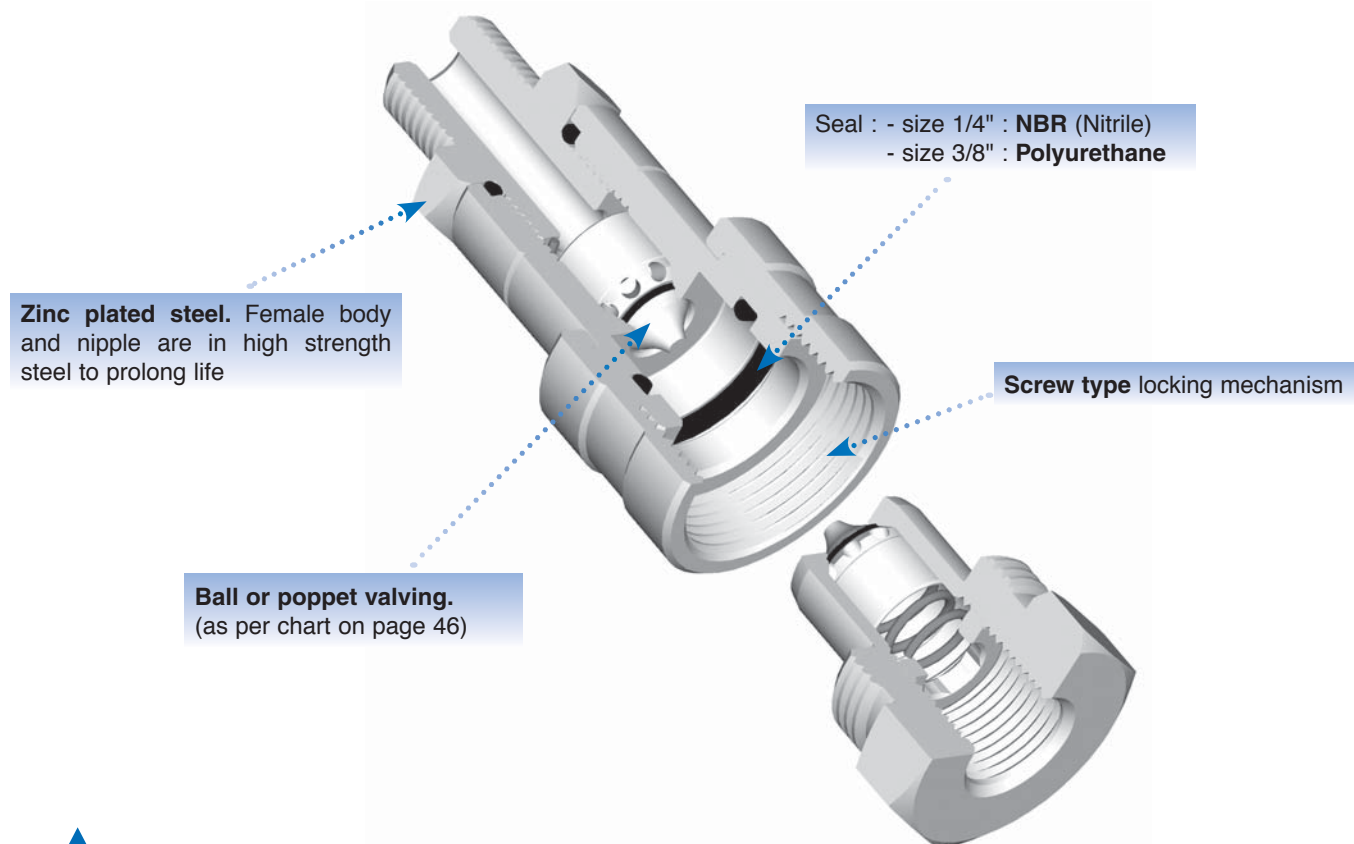
- High pressure coupler up to **70 MPa**
- Interchangeable with similar products
- Screw locking mechanism
- Ball or poppet valving

Applications

- Portable hydraulic rams
- Hydraulic jacks, rams and clamping devices
- Clamping hand tools
- Rescue equipment



Technical features



It is possible to connect a male tip with a ball valving and a female body with a poppet valving, and vice-versa. Be careful ! Couplers should be pressurized only when completely connected and should not be coupled or uncoupled when pressurized.

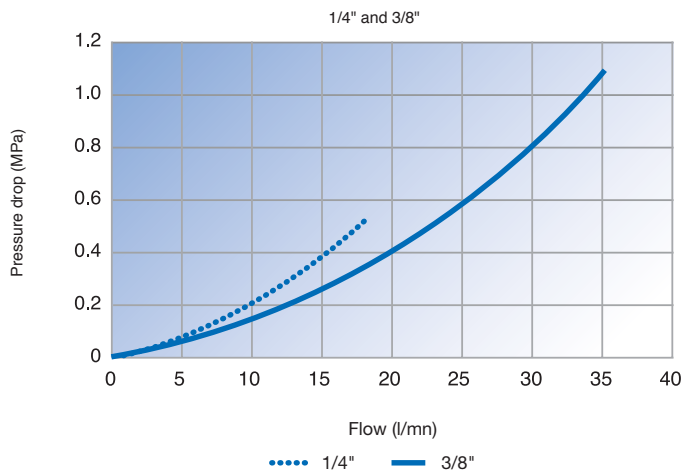
Technical performance data

Body size inch	Temperature range	Max. operating pressure (static) MPa
1/4"	-30°C +110°C	70
3/8"	-30°C +80°C	70

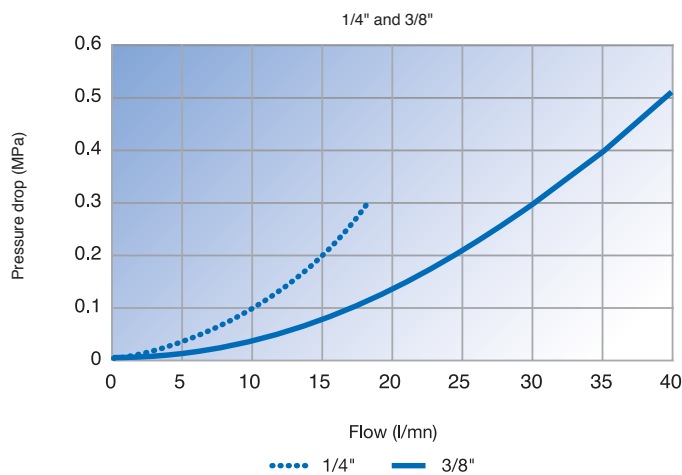
Pressure drop

Test with oil viscosity 43 cSt at 38°C.

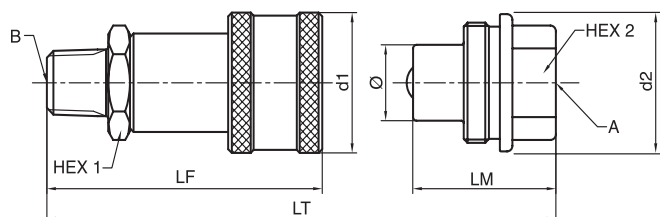
Ball valving



Poppet valving



Dimensions and part numbers



Body size inch	Thread A female	Thread B male	d1 mm	Hex1	LF mm	d2 mm	Hex2 mm	LM mm	LT connected mm	Ø mm	Valving Ball	Poppet	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
NPTF thread																
1/4"	1/4	1/4	28.5	22.0 mm	60.5	28.0	19.0	32.0	80.0	15.8	●		3050-2	115	3010-2	70
	1/4	1/4	29.0	22.0 mm	60.5	31.0	27.0	32.0	73.7	15.8		●	3050-2P	121	3010-2P	85
3/8"	3/8	3/8	35.0	24.0 mm	72.0	35.0	32.0	38.0	85.0	19.0	●		3050-3	220	3010-3	115
	3/8	3/8	35.0	1"	73.0	36.8	32.0	35.1	82.8	19.0		●	3050-3P	225	3010-3P	110

Dust caps and plugs

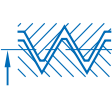
Body size inch	Dust plug part number for female body	Dust cap part number for male tip
1/4"	3005-2	3009-2
3/8"	3005-3	3009-3



Replacement seals

Body size inch	Material	O-ring seal part number
1/4"	NBR (Nitrile)	JT020114N0552
3/8"	Polyurethane	JT01U28-18.72QE



										
HTMA 70 MPa	Steel	3/8"	max. 70 MPa	-40°C + 110°C	NBR (Nitrile)	Push- to- connect	Flat- faced poppet	-	Ball locking mechanism	BSPP NPTF

Main characteristics

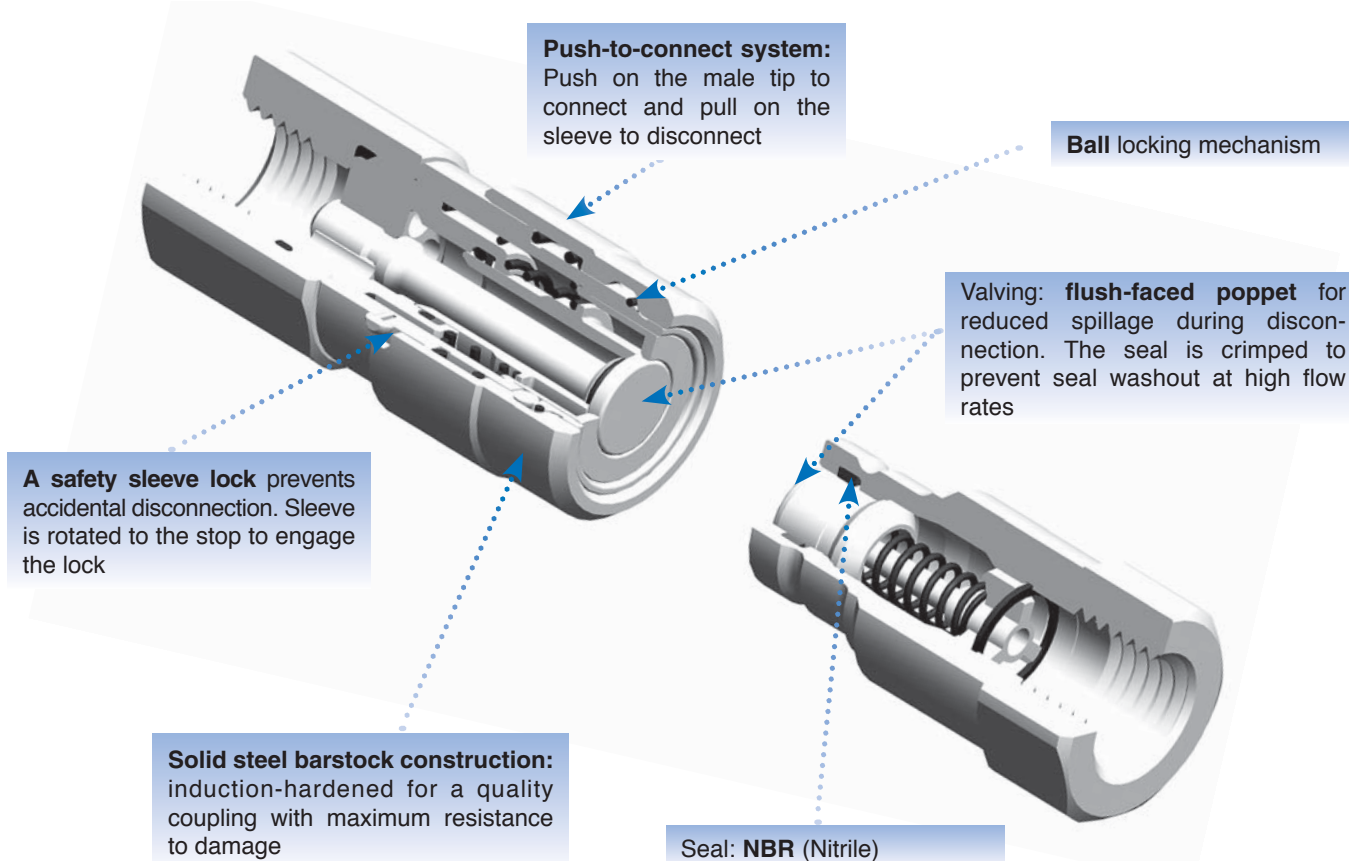
- Minimal fluid loss during disconnection
- Minimal pressure drop
- Minimal inclusion of air or dust during connection
- No possibility of interchange with flush-faced couplings having a lower pressure rating, for safety purposes

Applications

- Construction, railway maintenance and mining industry
- High-pressure power pack, jacks and rams or clamping devices
- Rescue equipment



Technical features



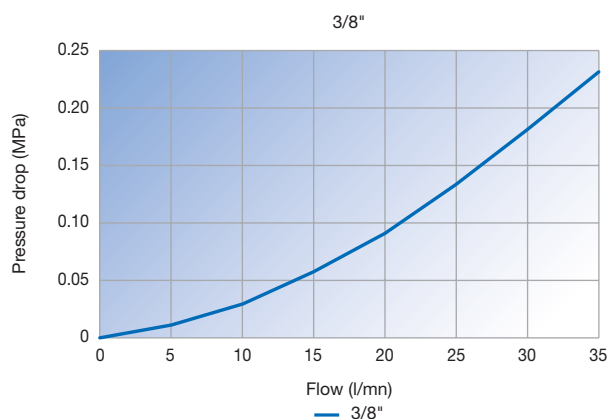
Technical performance data

Body size inch	Temperature range	Max operating pressure MPa	Min burst pressure MPa	Spillage max per disconnection* (ml)	Air inclusion max per connection* (ml)
3/8"	-40 °C +110°C	70	200	0.020	0.070

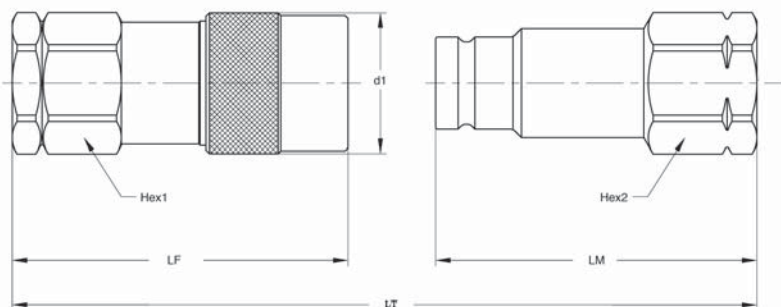
* Test according to ISO 7241-2

Pressure drop

Test with oil viscosity 43 cSt at 38°C.



Dimensions and part numbers



Body size inch	Thread inch	d1 mm	Hex 1 inch	LF mm	d2 inch	LM mm	LT mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
Female BSPP/NPTF thread											
3/8"	3/8" NPTF	31.1	1 1/8"	66.8	1 1/16"	53.8	103.2	FH-371-6FP	200	FH-372-6FP	118
3/8"	3/8" BSPP	31.1	1 1/8"	66.8	1 1/16"	53.8	103.2	FH-371-6FB	204	FH-372-6FB	127
Male NPTF thread											
3/8"	3/8 - 18	31.1	1 1/8"	72.4	-	-	110.8*	FH-371-6MP	204	*	*

* Fits either a FH-372-6FB or a FH-372-6FP male tip

Notes

[illegible]

APPENDICES

FLUID COMPTABILITY CHARTPage 52

SAFETY GUIDEPage 58

CONVERSION FACTORSPage 60

ALPHA NUMERIC INDEXPage 63

PARKER HANNIFIN CORPORATIONPage 65

Fluid compatibility chart

The following seal compound and body material compatibility chart is provided as an aid in selecting a specific synthetic rubber compound or body material for a particular application.

Shown here is a list of the seal materials available, with their temperature ranges and the corresponding Parker seal code. Operating and environmental conditions must be considered when making the selection of a quick coupling.

Code used in the part number	Seal material	Temperature range
Without	NBR : Nitrile	-40 + 110°C
W	EPDM : Ethylene Propylene	-50 + 150°C
Y	FKM : Viton™	-25 + 200°C
Z	CR : Neoprene	-50 + 150°C

To indicate a special material just add the appropriate code letter as a suffix to the part number of the coupler. It is not necessary to use the code "STD" as the standard NBR (Nitrile Butadienne Rubber) seal will be used.

For recommendations for media not listed here, please contact your Parker representative.

Note : This chart is intended as a guide only and is not to be considered as a recommendation to use Parker quick couplings in a specific application or with a specific fluid. Other factors that must be considered include but are not limited to: fluid and ambient temperature, system pressure, both operating and peaks, frequency of connection and disconnection, and applicable standards or regulations.

Codes: 1 = satisfactory 2 = fair 3 = not recommended 4 = insufficient data available

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR (Neoprene)
3M FC -75	4	4	4	4	1	1	2	1
Acetamide	4	4	1	2	1	1	3	1
Acetic acid (5%)	3	3	1	1	2	1	1	1
Acetone	1	2	1	1	3	1	3	3
Acetophenone	2	2	2	1	3	1	3	3
Acetyl acetone	2	2	2	2	3	1	3	3
Acetyl chloride	4	2	2	2	3	3	1	3
Acetylene	3	2	1	1	1	1	1	2
Air (100°C)	1	2	1	1	1	1	1	1
Air (150°C)	1	2	1	1	2	2	1	2
Air (200°C)	1	2	1	1	3	3	1	3
Aluminium acetate	4	4	4	4	2	1	3	2
Aluminium bromide	4	4	4	4	1	1	1	1
Aluminium chloride (10%)	3	3	3	3	1	1	1	1
Aluminium chloride (100%)	3	2	2	2	1	1	1	1
Aluminium fluoride	3	3	3	3	1	1	1	1
Aluminium nitrate	3	3	2	2	1	1	1	1
Aluminium salts	4	4	4	4	1	1	1	1
Aluminium sulphate	2	3	2	3	1	1	1	1
Alums (NH ₃ , Cr, K)	4	4	4	4	1	1	3	1
Ammonia (anhydrous)	3	2	1	1	2	1	3	1
Ammonia (cold, gas)	3	2	4	1	1	1	3	1
Ammonia (hot, gas)	3	2	4	1	3	2	3	2
Ammonium carbonate	3	2	3	3	3	1	1	1
Ammonium chloride	3	3	2	3	1	1	1	1
Ammonium hydroxide	3	3	1	2	3	1	3	1
Ammonium nitrate	3	3	1	1	1	1	4	1
Ammonium persulfate solution	3	3	1	2	3	1	4	4
Ammonium phosphate (Mono-, Di-, Tri-basic)	3	3	3	2	1	1	4	1
Ammonium salts	4	4	4	4	1	1	3	1
Ammonium sulphate	3	3	2	3	1	1	3	1
Amyl borate	4	4	4	4	1	3	1	1
Amyl chloride	4	2	1	1	4	3	1	3

Appendices

Fluid compatibility chart

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR (Neoprene)
Amyl chloronaphtalene	4	4	4	4	3	3	1	3
Amyl naphthalene	4	4	4	4	3	3	1	3
Animal oil (lard oil)	2	2	2	2	1	2	1	2
Aroclor 1248	2	3	3	3	3	2	1	3
Aroclor 1254	2	3	3	3	3	2	1	3
Aroclor 1260	2	3	3	3	1	4	1	1
Aromatic fuel -50%	4	4	4	4	2	3	1	3
Arsenic acid	3	3	1	1	1	1	1	1
Asphalt	3	3	1	1	2	3	1	2
ASTM oil, n° 1	1	1	1	1	1	3	1	1
ASTM oil, n° 2	1	1	1	1	1	3	1	2
ASTM oil, n° 3	1	1	1	1	1	3	1	3
ASTM oil, n° 4	1	1	1	1	2	3	1	3
ASTM reference fuel A	3	2	1	1	1	3	1	2
ASTM reference fuel B	3	2	1	1	1	3	1	3
ASTM reference fuel C	3	2	1	1	2	3	1	3
Automotive brake fluid	4	4	4	4	3	1	3	2
Barium chloride	3	3	2	3	1	1	1	1
Barium hydroxide	3	2	2	3	1	1	1	1
Barium salts	4	4	4	4	1	1	1	1
Barium sulphide	3	2	3	3	1	1	1	1
Beer	3	3	1	1	1	1	1	1
Beet sugar liquors	3	3	1	1	1	1	1	2
Benzaldehyde	3	3	2	3	3	1	3	3
Benzene	3	2	3	3	3	3	1	3
Benzenesulfonic acid (10%)	3	3	3	3	3	3	1	2
Benzine	4	4	4	4	1	3	1	2
Benzoic acid	3	3	3	3	3	3	1	3
Benzyl alcohol	4	3	1	2	3	2	1	2
Benzyl chloride	3	3	2	3	3	3	1	3
Bleach liquor	4	4	4	4	3	1	1	2
Borax	3	2	3	3	2	1	1	3
Bordeaux mixture	4	4	4	4	2	1	1	2
Boric acid	3	3	2	3	1	1	1	1
Brake fluid (non-petroleum)	2	2	4	4	3	1	3	2
Brine (sodium chloride)	3	3	1	1	1	1	1	1
Bromine	4	4	4	4	3	3	1	3
Bromine water	4	4	4	4	3	2	1	3
Bunker oil	4	4	4	4	1	3	1	3
Butadiene (monomer)	3	2	1	2	3	3	1	3
Butane	3	1	1	1	1	3	1	1
Butane (2.2 & 2.3-dimethyl)	4	4	4	4	1	3	1	2
Butanol (butyl alcohol)	2	1	1	1	1	2	1	1
Butter (animal fat)	2	3	1	2	1	1	1	2
Butyl butyrate	4	4	4	4	3	1	1	3
Butyl stearate	4	4	4	4	2	3	1	3
Calcine liquors	4	4	4	4	1	1	1	4
Calcium acetate	4	4	4	4	2	1	3	2
Calcium bisulphite	3	3	2	3	2	1	2	2
Calcium carbonate	3	2	3	2	1	1	1	1
Calcium chloride	3	3	2	3	1	1	1	1
Calcium hydroxide	3	3	2	3	1	1	1	1
Calcium hypochlorite	3	3	2	3	2	1	1	2
Calcium salts	4	4	4	4	1	1	1	1
Calcium sulphide	3	3	2	2	1	1	1	1
Caliche liquors	4	4	4	4	1	1	1	1
Cane sugar liquors	4	2	1	1	1	1	1	1
Carbon bisulphide	4	4	4	4	3	3	1	3
Carbon dioxide	1	2	1	1	1	1	1	1
Carbon disulfide	2	2	2	2	3	3	1	3
Carbon monoxide	1	1	1	1	1	1	1	2

Appendices

Fluid compatibility chart

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR (Neoprene)
Carbon tetrachloride	2	3	1	3	2	3	1	3
Carbon acid	3	3	1	2	2	1	1	1
Castor oil	1	1	1	1	1	2	1	1
Celluguard	4	4	4	4	1	1	1	1
Cellulube (now fyrquel)	4	4	4	4	3	1	1	3
China wood oil (Tung oil)	2	2	1	1	1	3	1	2
Chlorinated salt brine	4	4	4	4	3	3	1	3
Chlorinated solvents	4	4	4	4	3	3	1	3
Chlorobenzene	3	3	2	3	3	3	1	3
Chlorobutadiene	4	4	4	4	3	3	1	3
Chloroform	3	2	2	1	3	3	1	3
Chlorophenol	4	4	4	4	3	3	1	3
Coconut oil	4	4	4	4	1	3	1	3
Copper chloride	4	4	4	4	1	1	1	2
Copper salts	4	4	4	4	1	1	1	1
Copper sulphate	3	3	2	3	1	1	1	1
Corn oil	2	1	1	1	1	3	1	3
Cottonseed oil	3	2	1	2	1	3	1	3
Creosols	3	2	1	2	3	3	1	3
Creosote	3	3	2	1	1	3	1	2
Cresylic acid	4	2	1	2	3	3	1	3
Crude oil	3	2	1	1	2	3	1	3
Cutting oil	4	1	1	1	1	3	1	2
Decane	4	4	4	4	1	3	1	3
Denatured alcohol	4	4	4	4	1	1	1	1
Detergent (water solution)	3	3	1	1	1	1	1	2
Diesel fuel	1	1	1	1	1	3	1	3
Diethylene glycol	3	1	1	1	1	1	1	1
Dimethyl formamide	4	4	1	1	2	1	3	3
Dow chemical HD50-4	4	4	4	4	4	1	3	2
Dow corning 200, 510, 550	4	4	4	4	2	1	1	1
Dowtherm A, E	3	1	2	2	3	3	1	3
Ethanol	1	3	3	3	3	1	3	1
Ethyl chloride	2	3	1	3	1	3	1	3
Ethyl hexanol	4	4	4	4	1	1	1	1
Ethylene dichloride	3	3	1	2	3	3	1	3
Ethylene glycol	2	2	1	2	1	1	1	1
Fatty acids	3	3	1	2	2	3	1	2
Freon 11	1	4	4	4	2	3	2	3
Freon 12	1	1	3	1	2	3	1	1
Freon 22	1	3	1	1	3	3	3	1
Fuel oil	3	1	1	1	1	3	1	2
Gallic acid	3	3	2	2	2	2	1	2
Gas, liquid, propane (LPG)	1	3	1	1	1	3	1	2
Gas, natural	2	3	1	1	1	3	1	1
Gasoline / petrol	1	2	1	1	1	3	1	3
Gelatine	3	3	1	1	1	1	1	1
Glucose	1	1	1	1	1	1	1	1
Glycerine (glycerol)	2	1	1	1	1	1	1	1
Glycols	3	2	2	2	1	1	1	1
Green sulphate liquor	3	3	3	3	2	1	1	2
Gulf - FR fluid emulsion	4	4	4	4	1	3	1	2
Gulf - FR fluid G	4	4	4	4	1	1	1	1
Gulf - FR fluid P	4	4	4	4	3	2	2	3
Helium	1	1	1	1	1	1	1	1
Heptane	1	1	1	1	1	3	1	2
Hydraulic oil (petroleum base)	1	1	1	1	1	3	1	1
Hydraulic oil (water base)	4	1	1	1	2	1	3	2
Hydrazine	4	3	1	1	2	1	3	2
Hydrogen gas	2	2	1	1	1	1	1	1
Hydrolube	4	4	4	4	1	1	1	2

Appendices

Fluid compatibility chart

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR (Neoprene)
Iso octane	1	1	1	1	1	3	1	2
Isobutyl alcohol	4	4	1	1	2	1	1	1
Isopropyl alcohol	1	1	2	1	2	1	1	2
Isopropyl ether	1	1	1	1	2	3	3	3
JP3 and JP4	1	1	1	1	1	3	1	3
Kerosene	1	1	1	1	1	3	1	2
Lard (animal fat)	1	1	1	1	1	2	1	2
Linseed oil	3	1	1	1	1	3	1	3
Lubricating oil SAE 10, 20, 30, 40,50	1	1	1	1	1	3	1	2
Magnesium salts	4	4	4	4	1	1	1	1
Magnesium sulphate	3	3	2	2	1	1	1	1
Mercury	3	3	1	1	1	1	1	1
Methane	1	3	1	1	1	3	1	2
Methanol	1	1	1	1	1	1	3	1
Methyl bromide	4	1	1	1	2	3	1	3
Methyl chloride (wet)	1	3	1	3	3	3	1	3
Methyl chloride (dry)	2	3	1	1	3	3	1	3
Methyl ether	4	4	4	4	1	3	1	3
Methyl ethyl ketone (MEK)	1	1	1	1	3	1	3	3
MIL-F81912 (JP-9)	1	1	1	1	3	3	1	3
MIL-H-5606	1	1	1	1	1	3	1	2
MIL-H-6083	1	1	1	1	1	3	1	1
MIL-H-7083	1	1	1	1	1	1	2	2
MIL-H-8446 (MLO-8515)	2	1	1	1	2	3	1	1
MIL-L-2104 & 2104B	1	1	1	1	1	3	1	2
MIL-L-7808	3	2	1	1	2	3	1	3
Milk	2	1	1	1	1	1	1	1
Mineral oils	1	1	1	1	1	3	1	2
MLO-7277 and MLO-7557	2	1	1	1	3	3	1	3
Mobile HF	1	1	1	1	1	3	1	2
Monomethyl hydrazine	4	4	4	4	2	1	4	2
Naphtha (coal or petroleum)	2	1	2	2	2	3	1	3
Naphthalene	2	1	2	2	3	3	1	3
Naphthenic acid	2	1	2	2	2	3	1	3
Neatsfoot oil	4	4	4	4	1	2	1	3
Nickel acetate	3	2	1	1	2	1	3	2
Nickel chloride	3	3	2	2	1	1	1	2
Nickel salts	4	4	4	4	1	1	1	2
Nickel sulphate	3	3	1	1	1	1	1	1
Nitrogen	1	1	1	1	1	1	1	1
Nitrous oxide	2	2	2	1	1	4	4	4
Octyl alcohol	1	1	1	1	2	3	1	2
Olive oil	2	1	1	1	1	2	1	2
Ortho-dichlorobenzene	2	2	2	2	3	3	1	3
Oxalic acid	3	3	2	1	2	1	1	2
Oxygen (100-200°C)	1	1	1	1	3	3	2	3
Oxygen (cold)	1	1	1	1	2	1	1	1
Ozone	3	3	1	1	3	1	1	3
Palmitic acid	1	2	1	1	1	2	1	2
Para-dichlorobenzene	2	1	1	2	3	3	1	3
Parker O-Lube	1	1	1	1	1	3	1	1
Peanut oil	2	1	1	1	1	3	1	3
Pentane (2-3 methyl & 2-4 dimethyl)	2	2	2	2	1	3	1	2
Perchloric acid - 2N	3	3	2	2	3	2	1	2
Perchloroethylene	3	2	2	2	2	3	1	3
Petrolatum	1	1	1	1	1	3	1	2
Petroleum oil (below 120°C)	1	1	1	1	1	3	1	2
Phenol	1	1	1	1	3	3	1	3
Phosphoric acid (3 molar)	3	3	2	2	1	1	1	2
Phosphoric acid (concentrated)	3	3	2	2	3	1	1	3
Phosphorous trichloride	3	3	1	1	3	1	1	3

Appendices

Fluid compatibility chart

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR (Neoprene)
Picric acid (molten)	3	3	2	2	2	2	1	2
Picric acid (water solution)	3	3	2	2	1	1	1	1
Pine oil	2	2	1	2	1	3	1	3
Plating solutions (chrome)	1	3	1	1	4	1	1	3
Plating solutions (other)	4	1	1	1	1	1	1	3
Pneumatic service	1	1	1	1	1	1	1	1
Potassium acetate	2	1	2	2	2	1	3	2
Potassium chloride	3	3	1	2	1	1	1	1
Potassium cyanide	3	2	2	2	1	1	1	1
Potassium dichromate	3	1	2	2	1	1	1	1
Potassium hydroxide (50%)	3	2	1	2	2	1	3	2
Potassium nitrate	2	1	1	1	1	1	1	1
Potassium salts	4	4	4	4	1	1	1	1
Potassium sulphate	3	2	1	1	1	1	1	1
PRL - high temp. hydr. oil	4	4	4	4	2	3	1	2
Producer gas	2	1	1	1	1	3	1	2
Propane	1	3	1	1	1	3	1	2
Propyl acetate	3	1	1	1	3	2	3	3
Propyl alcohol	1	1	1	1	1	1	1	1
Propylene	1	1	1	1	3	3	1	3
Pydraul 10E	3	1	1	1	3	1	3	3
Pydraul A-200 (C series)	3	1	1	1	3	3	1	3
Pydraul (3 series)	3	1	1	1	3	1	1	3
Pyrogard 42, 43, 53, 55 (phosphate ester)	4	4	4	4	3	1	1	3
Pyrogard D	4	4	4	4	1	3	3	2
Sea water (salt water)	2	3	1	1	1	1	1	2
Shell irus 905	4	4	4	4	1	3	1	2
Silicone greases	1	1	1	1	1	1	1	1
Silver nitrate	3	3	1	2	2	1	1	1
Skydrol 500 (type 2)	3	1	1	1	3	1	3	3
Skydrol 7000 (type 2)	3	1	1	1	3	1	2	3
Soap solutions	3	3	1	1	1	1	1	2
Sodium acetate	1	1	1	1	2	1	3	2
Sodium bicarbonate	2	2	1	1	1	1	1	1
Sodium bisulphate or bisulphite	3	3	2	1	1	1	1	1
Sodium borate	3	2	2	2	1	1	1	1
Sodium carbonate	4	1	1	1	1	1	1	1
Sodium chloride	3	2	2	2	1	1	1	1
Sodium cyanide	3	1	1	1	1	1	4	1
Sodium hydroxide	3	2	1	2	2	1	2	2
Sodium hydroxide (50%)	3	3	1	2	2	1	2	2
Sodium metaphosphate	2	1	2	2	1	1	1	2
Sodium nitrate	3	2	1	1	2	1	4	2
Sodium perborate	3	3	1	1	2	1	1	2
Sodium peroxide	3	1	2	2	2	1	1	2
Sodium phosphates	1	3	2	1	1	1	1	2
Sodium salts	4	4	4	4	1	1	1	2
Sodium sulphate	3	2	1	1	1	1	1	1
Sodium sulphite & sulphide	3	3	2	3	1	1	1	1
Sodium thiosulphate	3	3	1	2	2	1	1	1
Soybean oil	2	1	1	1	1	3	1	3
Stannous chloride (15 %)	3	3	2	3	1	1	1	1
Steam (below 200°C)	1	3	1	1	3	1	3	3
Stoddard solvents	2	1	1	1	1	3	1	2
Sucrose solutions	1	1	1	1	1	1	1	2
Sulphur	2	1	1	1	3	1	1	1
Sulphur liquors	1	1	1	1	2	2	1	2
Sulphur (molten)	3	3	1	1	3	3	1	3
Sulphur dioxide (dry)	3	1	1	3	3	1	3	3
Sulphur trioxide (dry)	2	2	2	3	3	2	1	3
SunSAFE	3	1	1	1	1	3	1	2

Appendices

Fluid compatibility chart

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR (Neoprene)
Tannic acid (10%)	1	3	2	3	1	1	1	2
Tar (bituminous)	2	1	1	1	2	3	1	3
Tartaric acid	2	3	3	2	1	2	1	2
Terpineol	4	4	4	4	2	3	1	3
Tertiary butyl alcohol	1	1	1	1	2	2	1	2
Tetrachloroethane	4	2	1	2	3	3	1	3
Tetrachloroethylene	3	2	2	4	3	3	1	3
Tetraethyl lead	1	1	1	1	2	3	1	2
Tetraethyl lead (blend)	1	1	1	1	2	3	1	3
Titanium tetrachloride	2	1	2	3	2	3	1	3
Toluene	1	1	1	1	3	3	1	3
Transformer oil	1	1	1	1	1	3	1	2
Transmission fluid (type A)	1	1	1	1	1	3	1	2
Trichloroethane	4	2	1	4	3	3	1	3
Trichloroethylene	3	2	2	2	3	3	1	3
Tricresyl phosphate	4	1	2	2	3	1	2	3
Turbine oil #15 (MIL-L-7808A)	4	2	1	1	2	3	1	3
Turpentine	3	2	1	1	1	3	1	3
Varnish	1	1	1	1	2	3	1	3
Water	1	3	1	1	1	1	2	2
Whiskey	1	3	1	1	1	1	1	1
Wine	1	3	1	1	1	1	1	1
Wood oil	4	2	1	1	1	3	1	2
Xylene	1	2	1	1	3	3	1	3
Zinc sulphate	3	3	2	2	1	1	1	1

SAFETY GUIDE FOR SELECTING AND USING QUICK ACTION COUPLINGS AND RELATED ACCESSORIES



DANGER: failure or improper selection or improper use of quick action couplings or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of quick action couplings or related accessories include but are not limited to:

- Couplings or parts thrown off at high speed
- High velocity fluid discharge
- Contact with suddenly moving or falling objects that are to be held in position or moved by the conveyed fluid
- Dangerously whipping hose
- Explosion or burning of the conveyed fluid
- Contact with conveyed fluids that may be hot, cold, toxic, or otherwise injurious
- Sparking or explosion while paint or flammable liquid spraying

Before selecting or using any Parker quick action couplings or related accessories, it is important that you read and follow the following instructions.

1.0 GENERAL INSTRUCTIONS

1.1 Scope: this safety guide provides instructions for selecting and using (including installing connecting, disconnecting, and maintaining) quick action couplings and related accessories (including caps, plugs, blow guns). This safety guide is a supplement to and is to be used with the specific Parker publications for the specific quick action couplings and related accessories that are being considered for use.

1.2 Fail-Safe: quick action couplings or the hose they are attached to can fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the quick action coupling or hose will not endanger persons or property.

1.3 Distribution : provide a copy of this safety guide to each person who is responsible for selecting or using quick action coupling products. Do not select or use quick action couplings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User responsibility: due to the wide variety of operating conditions and uses for quick action couplings, Parker and its distributors do not represent or warrant that any particular quick action coupling is suitable for any specific end use system. This safety guide does not analyse all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the quick action couplings.
- Assuring that the user's requirements are met and that the use presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the quick action couplings are used.

1.5 Additional questions: call the appropriate Parker customer service department if you have any questions or require any additional information. For the telephone numbers of the appropriate customer service department, see the Parker publication for the product being considered or used.

2.0 QUICK ACTION COUPLINGS SELECTION INSTRUCTIONS

2.1 Pressure: quick action couplings selection must be made so that the published rated pressure of the coupling is equal to or greater than the maximum system pressure. Pressure surges in the system higher than the rated pressure of the coupling will shorten the quick action coupling's life. Do not confuse burst pressure or other pressure values with rated pressure and do not use burst pressure or other pressure values for this purpose.

2.2 Fluid compatibility: quick action couplings selection must assure compatibility of the body and seal materials with the fluid media used. See the fluid compatibility chart.

2.2 Temperature: be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the quick action couplings. Use caution and hand protection when connecting or disconnecting quick action couplings that are heated or cooled by the media they are conducting or by their environment.

2.4 Size: transmission or power by means of pressurised liquid varies with pressure and rate of flow. The size of the quick action couplings and other components of the system must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

2.5 Pressurised connection or disconnection: if connecting or disconnecting under pressure is a requirement, use only quick action couplings designed for that purpose. The rated operating pressure of a quick action coupling may not be the pressure at which it may be safely connected or disconnected.

2.6 Environment: care must be taken to ensure that quick action couplings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.

2.7 Locking means: ball locking quick action couplings can unintentionally disconnect if they are dragged over obstructions on the end of a hose or if the sleeve is bumped or moved enough to cause disconnection. Sleeves designed with flanges to provide better gripping for oily or gloved hands are especially susceptible to accidental disconnection and should not be used where these conditions exist. Sleeve lock or union (threaded) sleeve designs should be considered where there is a potential for accidental uncoupling.

2.8 Mechanical loads: external forces can significantly reduce quick action couplings' life or cause failure. Mechanical loads which must be considered include excessive tensile or side loads, and vibration. Unusual applications may require special testing prior to quick action couplings selection.

2.9 Specifications and standards: when selecting quick action couplings, government, industry, and Parker specifications must be reviewed and followed as applicable.

2.10 Vacuum: not all quick action couplings are suitable or recommended for vacuum service. Quick action couplings used for vacuum applications must be selected to ensure that the quick action couplings will withstand the vacuum and pressure of the system.

2.11 Fire resistant fluids: some fire resistant fluids require seals other than the standard NBR (nitrile) used in many quick action couplings.

2.12 Radiant heat: quick action couplings can be heated to destruction or loss of sealing without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the quick action couplings.

2.13 Welding and brazing: heating of plated parts, including quick action couplings and port adapters, above 450 °F (232°C) such as during welding, brazing, or soldering may emit deadly gases and may cause coupling seal damage.

3.0 QUICK ACTION COUPLINGS INSTALLATION INSTRUCTIONS

3.1 Pre-installation inspection: before installing a quick action coupling, visually inspect it and check for correct style, body material, seal material, and catalogue number. Before final installation, coupling halves should be connected and disconnected with a sample of the mating half with which they will be used.

3.2 Quick action coupling halves from other manufacturers: if a quick action coupling assembly is made up of one Parker half and one half from another manufacturer, the lowest pressure rating of the two halves should not be exceeded.

3.3 Fitting installation: use a thread sealant, when assembling taper pipe thread joints in quick action couplings. Be sure the sealant is compatible with the system fluid or gas. To avoid system contamination, use a liquid or paste type sealant rather than a tape style. Use the flats provided to hold the quick action coupling when installing fittings. Do not use pipe wrenches or a vice on other parts of the coupling to hold it when installing or a removing fittings as damage or loosening of threaded joints in the coupling assembly could result. Do not apply excessive torque to taper pipe threads because cracking or splitting of the female component can result.

3.4 Caps and plugs: use dust caps and plugs when quick action couplings are not coupled to exclude dirt and contamination and to protect critical surfaces from damage.

3.5 Coupling location: locate quick action couplings where they can be reached for connection or disconnection without exposing the operator to slipping, falling, getting sprayed, or coming in contact with hot or moving parts.

3.6 Hose whips: use a hose whip (a short length of hose between the tool and the coupling half) instead of rigidly mounting a coupling half on hand tools or other devices. This reduces the potential for coupling damage if the tool is dropped and provides some isolation from mechanical vibration which could cause uncoupling.

4.0 QUICK ACTION COUPLINGS MAINTENANCE INSTRUCTIONS

4.1 Even with proper selection and installation, quick action coupling life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and must include the following as a minimum:

4.2 Visual inspection of quick action couplings: any of the following conditions require immediate shut down and replacement of the quick action coupling:

- Cracked, damaged, or corroded quick action couplings parts.
- Leaks at the fitting, valve or mating seal.
- Broken coupling mounting hardware, especially breakaway clamps.

4.3 Visual inspection all other:

- Leaking seals or port connections.
- Excess dirt build-up on the coupling locking means or on the interface area of either coupling half.
- Defective clamps, guards, and shields.
- System fluid level, fluid type and any entrapment.

4.4 Functional test: operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using the system.

4.5 Replacement intervals: specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage or injury risk. See instruction 1.2 above.

Dimensions

Size of the unit	Tube O/D mm	Tube O/D inch	Dimensions
4	6	1/4	$\text{In (") } \times 25.4 = \text{mm}$ $\text{mm} \div 25.4 = \text{In (")}$
5	8	5/16	
6	10	3/8	
8	12	1/2	
10	16	5/8	
12	20	3/4	
16	25	1	
20	32	1 1/4	
24	40	1 1/2	
32	50	2	

Weight

Weight

$\text{Weight in LB} \times 453.59 = \text{Weight in grams}$
 $\text{Weight in grams} \div 453.59 = \text{Weight in LB}$

Flow rate

l/min	UK GPM	US GPM	Flow rate
1	0.2	0.26	$\text{l/min} \times 0.219976 = \text{gal/min (UK)}$ $\text{l/min} \times 0.264218 = \text{gal/min (US)}$
15	3.3	3.96	
30	6.6	7.93	
45	9.9	11.89	
100	22.0	26.42	
250	55.0	66.05	
500	110.0	132.11	
1000	220.0	264.22	

Pressure

Bar	MPa	PSI	Pressure
1	0.1	14.5	$\text{bar} \times 14.5038 = \text{PSI}$ $1 \text{ MPa} = 10 \text{ bars}$
6	0.6	87.0	
10	1.0	145.0	
15	1.5	217.5	
20	2.0	290.0	
30	3.0	435.0	
50	5.0	725.0	
100	10.0	1 450.5	
200	20.0	2 900.5	
250	25.0	3 625.0	
500	50.0	7 252.0	
700	70.0	10 152.5	
1000	100.0	14 503.5	
1500	150.0	21 755.0	

Material

Designations used in the catalogue	NF. EN 10088-3	
	Numerical	Symbolical
AISI 302	1.4301	X5 Cr Ni 18-10
AISI 303	1.4305	X8 Cr Ni S 18-9
AISI 316	1.4401	X5 Cr Ni Mo 17-12-2
AISI 316 L	1.4404	X2 Cr Ni Mo 17-12-2
AISI 316 L	1.4435	X2 Cr Ni Mo 18-14-3

Temperature

°F ➡ °C	°F ➡ °C	°C ➡ °F	°C ➡ °F
-40	-40.0	-40	-40
-35	-37.2	-35	-31
-30	-34.4	-30	-22
-25	-31.7	-25	-13
-20	-28.9	-20	-4
-15	-26.1	-17.8	0
-10	-23.3	-15	+5
-5	-20.6	-10	+14
0	-17.8	-5	+23
+5	-15.0	0	+32
+10	-12.2	+5	+41
+15	-9.4	+10	+50
+20	-6.7	+15	+59
+25	-3.9	+20	+68
+30	-1.1	+25	+77
+32	0.0	+30	+86
+35	+1.7	+35	+95
+40	+4.4	+40	+104
+45	+7.2	+45	+113
+50	+10.0	+50	+122
+55	+12.8	+55	+131
+60	+15.6	+60	+140
+65	+18.3	+65	+149
+70	+21.1	+70	+158
+75	+23.9	+75	+167
+80	+26.7	+80	+176
+85	+29.4	+85	+185
+90	+32.2	+90	+194
+95	+35.0	+95	+203
+100	+37.8	+100	+212
+105	+40.6	+105	+221
+110	+43.3	+110	+230
+115	+46.1	+115	+239
+120	+48.9	+120	+248
+125	+51.7	+125	+257
+130	+54.4	+130	+266
+135	+57.2	+135	+275
+140	+60.0	+140	+284
+145	+62.8	+145	+293
+150	+65.6	+150	+302
+155	+68.3	+155	+311
+160	+71.1	+160	+320
+165	+73.9	+165	+329
+170	+76.7	+170	+338
+175	+79.4	+175	+347
+180	+82.2	+180	+356
+185	+85.0	+185	+365
+190	+87.8	+190	+374
+195	+90.6	+195	+383
+200	+93.3	+200	+392
+205	+96.1	+205	+401
+210	+98.9	+210	+410
+215	+101.7	+215	+419
+220	+104.4	+220	+428
+225	+107.2	+225	+437
+230	+110.0	+230	+446
+235	+112.8	+235	+455
+240	+115.6	+240	+464
+245	+118.3	+245	+473
+250	+121.1	+250	+482

Temperature

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$(^{\circ}\text{F} - 32) \div 1.8 = ^{\circ}\text{C}$$

Assembly torque

BSPP thread (ISO 1179-1 / DIN 3852-T2)

O-Ring with Retaining Ring

Thread G	Series	Tube O/D mm	Assembly torque Nm +10% -0
G 1/8A	L	6	18
G 1/4A	L	8	35
	L	10	35
G 3/8A	L	12	70
G 1/2A	L	15	90
	L	18	90
G 3/4A	L	22	180
G 1A	L	28	310
G 1 1/4A	L	35	450
G 1 1/2A	L	42	540
G 1/4A	S	6	55
	S	8	55
G 3/8A	S	10	80
	S	12	80
G 1/2A	S	14	115
	S	16	115
G 3/4A	S	20	180
G 1A	S	25	310
G 1 1/4A	S	30	450
G 1 1/2A	S	38	540

Note : Lubricate threads before assembly. Tightening torques are for steel fittings assembled in steel components.

Metric thread (ISO 6149 / DIN 3852 -T3)

Series	Thread mm	Assembly torque Nm +10% -0
L	M8x1	8
L	M10x1	15
L	M12x1.5	25
L	M14x1.5	35
L	M16x1.5	40
L	M18x1.5	45
L	M22x1.5	60
L	M27x2	100
L	M33x2	160
L	M42x2	210
L	M48x2	260
L	M60x2	315
S	M8x1	10
S	M10x1	20
S	M12x1.5	35
S	M14x1.5	45
S	M16x1.5	55
S	M18x1.5	70
S	M22x1.5	100
S	M27x2	170
S	M33x2	310
S	M42x2	330
S	M48x2	420
S	M60x2	500

Note : Lubricate threads before assembly. Tightening torques are for steel fittings assembled in steel components.

NPTF thread

Thread inch	TFFT*
1/8 - 27	2 - 3
1/4 - 18	2 - 3
3/8 - 18	2 - 3
1/2 - 14	2 - 3
3/4 - 14	2 - 3
1 - 11 1/2	1.5 - 2.5
1 1/4 - 11 1/2	1.5 - 2.5
1 1/2 - 11 1/2	1.5 - 2.5
2 - 11 1/2	1.5 - 2.5

* Turn From Finger Tight: The proper method of assembling tapered threaded connectors is to assemble them finger tight and then wrench tighten further to the specified number of turns from finger tight (TFFT). Assembly Turns From Finger Tight values for steel, stainless steel and brass fittings.

UNF thread (SAE J 1926/1, ISO 11926)

Size of the unit	Thread inch	Assembly torque Nm +10% -0
2	5/16-24 UNF - 2B	10
3	3/8 - 24 UNF - 2B	19
4	7/16-20 UNF - 2B	25
5	1/2 - 20 UNF - 2B	30
6	9/16-18 UNF - 2B	37
8	3/4 - 16 UNF - 2B	65
10	7/8 - 14 UNF - 2B	122
12	1 1/16 - 12 UN - 2B	150
14	1 3/16 - 12 UN - 2B	197
16	1 5/16 - 12 UN - 2B	217
20	1 5/8 - 12 UN - 2B	305
24	1 7/8 - 12 UN - 2B	340
32	2 1/2 - 12 UN - 2B	440

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H3-66.....	11	JT020219N0674.....	19	PFR-1002-NS.....	35	SM-751-16FB	19	SST-N2.....	15
H3-66M.....	11	JT020222N0674.....	11,16	PR-25	19	SM-751-16FP	19	SST-N2-BSPP	15
H4-62.....	7	JT020222V0747.....	11	SH12-62N.....	8	SM-752-12FB	19	SST-N2M.....	15
H4-62-BSPP	7	JT020224N0674.....	11	SH12-62N-BSPP.....	8	SM-752-12FP	19	SST-N3.....	15
H4-63.....	7	JT020327N0674.....	16	SH12-63N.....	8	SM-752-16FB	19	SST-N3-BSPP	15
H4-63-BSPP	7	JT020333N0674.....	11	SH12-63N-BSPP.....	8	SM-752-16FP	19	SST-N3M.....	15
H4-65.....	11	NR-100	22	SH1-62	8	SSH1-62Y	9	SST-N4.....	15
H4-65M.....	11	NR-37	22,31	SH1-62-BSPP	8	SSH1-62Y-BSPP	9	SST-N4-BSPP	15
H4-66.....	11	NR-50	22,31	SH1-63	8	SSH1-63Y	9	SST-N4M.....	15
H4-66M.....	11	NR-75	22	SH1-63-BSPP	8	SSH1-63Y-BSPP	9	SST-N6.....	15
H6-62.....	7	NS-1001-16FB	22	SH2-62	8	SSH2-62Y	9	SST-N6-BSPP	15
H6-62-BSPP	7	NS-1001-16FP	22	SH2-62-BSPP	8	SSH2-62Y-BSPP	9	SST-N6M.....	15
H6-63.....	7	NS-1002-16FB	22	SH2-63	8	SSH2-63Y	9	SST-N8.....	15
H6-63-BSPP	7	NS-1002-16FP	22	SH2-63-BSPP	8	SSH2-63Y-BSPP	9	SST-N8M.....	15
H6-65.....	11	NSI-251-16MCL.....	24	SH3-62	8	SSH3-62Y	9		
H6-65M.....	11	NSI-251-C16MCL....	24	SH3-62-BSPP	8	SSH3-62Y-BSPP	9		



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Catalogue 3800-IND/UK
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PlantijnCasparie 06/2006