



HOLMBURY
PRODUCT CATALOGUE
Quick Release Couplings

www.holmbury.com



Introducing our Product Catalogue

Quick Release Couplings & Valves

The Holmbury Group is a family-run hydraulics company with our head office located in Tonbridge, United Kingdom. Holmbury was established in 1984 by David French and quickly became recognised for our high quality and reliable products. The company is best known for its innovative flat face coupling design, launched in 1984, which became the preferred quick release coupling solution for many heavy construction equipment OEMs. The flat face design limits the inclusion of air and contaminants, whilst preventing fluid loss during disconnection.

Today Holmbury is a global provider of hydraulic quick release couplings, valves and other hydraulic components. In 2003, driven by the need to respond rapidly to worldwide customer demand, Holmbury set up their North American operation, now located in Eastlake, Ohio. In 2021 Holmbury opened up a new warehouse facility, in the Netherlands, to enhance service to their European customers.

WHY CHOOSE HOLMBURY?



Design and Engineering

Holmbury's products are designed by engineers with years of experience, insight and know-how. Holmbury maintains strict control of manufacturing function, and meets even the most demanding customer specifications. Holmbury utilises the advantages of global manufacturing expertise to provide customers with timely, precise and cost-effective solutions.



Quality Certifications

All Holmbury products are subject to rigorous laboratory and field testing, and each product conforms to strict manufacturing standards.



Delivery

Holmbury is dedicated to supplying quality products to our customers as quickly as possible by offering next-day service domestically and world-wide shipping via our international logistics partners.



Stock/Inventory

Holmbury prides itself on holding extensive stock of our fast-moving items at sites throughout the world. The global market place has varying and fluctuating demands, therefore, not all products are available from stock and may also be specific to a region.

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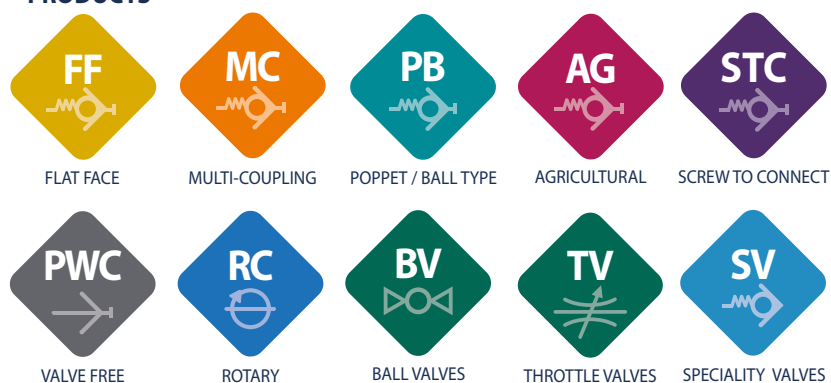
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QUICK REFERENCE ICON GLOSSARY

APPLICATIONS



PRODUCTS



For further information about Holmbury Valve range contact sales office.

MATERIALS



PRESSURE



Colour of icon represents:
■ MEDIUM PRESSURE
■ HIGH PRESSURE

GLOSSARY TECH



STANDARD



BODY



THREAD



SIZE



ACCESSORIES

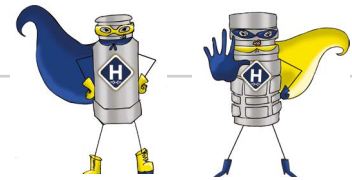
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PARKING STATIONS
 SEAL KITS

REPAIR KITS
 VALVE HANDLES & LOCKING NUTS
 MOUNTING FLANGES

Note: Some product images shown in this catalogue are a digital representation and therefore the finished product appearance may differ slightly to that supplied.



SAFETY GUIDELINES - DO'S AND DON'TS

THE ESSENTIAL DO'S



- **ALWAYS** wipe the two mating faces clean before connecting.
- **ALWAYS** use genuine Holmbury Dust Caps and Plugs when the couplings are disconnected.
- **ALWAYS** check that pressure has been released before connecting or disconnecting.
- **ALWAYS** align the external locking ball (if fitted) with notch in the locking sleeve and then pull the locking sleeve back fully to disconnect. Sticking is normally caused by dirt in the coupling or physical damage due to abuse.
- **ALWAYS** connect and disconnect new couplings two or three times to work the seals. Sometimes a new coupling will stick if the seals have not been worked.
- **ALWAYS** apply the spanner or grips only to the hexagon/flats and nowhere else when fitting couplings.
- **ALWAYS** avoid damage to the coupling faces. Burrs and scratches cause damage to the seals and cause leaks. They can also impede connection and disconnection of the couplings.
- **ALWAYS** periodically lubricate the internal locking balls on the female half of the coupling with silicone grease.
- **ALWAYS** protect your hydraulic system with a good quality filter. Adequate filtration ensures the oil remains free of contaminants that can damage internal seals of couplings.

THE ESSENTIAL DON'TS



- **NEVER** connect and disconnect with pressure in the line, unless the coupling type is specifically designed to do so.
- **NEVER** attempt to reconnect using a damaged half coupling as this will destroy the seals in the mating half and necessitate replacement of both halves.
- **NEVER** leave the coupling where it may be run over by a vehicle or otherwise crushed. This will distort the sleeve and prevent connection and disconnection.
- **NEVER** try to turn the sleeve when the coupling is disconnected since this may cause the locking ball to jam under the locking sleeve and damage the coupling.
- **NEVER** try to strip a flat faced coupling down. There are no user serviceable parts. If the coupling is damaged it should be replaced with a new coupling.
- **NEVER** hit the centre poppet of the coupling to try and release locked in pressure. This can cause irreparable damage to the coupling and serious injury. For applications with trapped in pressure consult Holmbury.
- **NEVER** clamp on the sleeve of the female or nose of the male when fitting couplings - this will cause distortion and damage.
- **NEVER** subject the couplings to external forces, especially side load. This can reduce the life of the coupling or cause failure.
- **NEVER** allow hose torsional forces to act on the couplings. Utilise Holmbury rotary couplings.
- **NEVER** use a coupling as a blank or pressurise disconnected.

IMPORTANT!

FOR THE CARE AND OPERATION OF HOLMBURY QUICK RELEASE COUPLINGS

CAUTION: It is important that users of the Quick Release Couplings read the following safety guidelines. Improper use of the Holmbury products can lead to severe injury and damage to equipment.

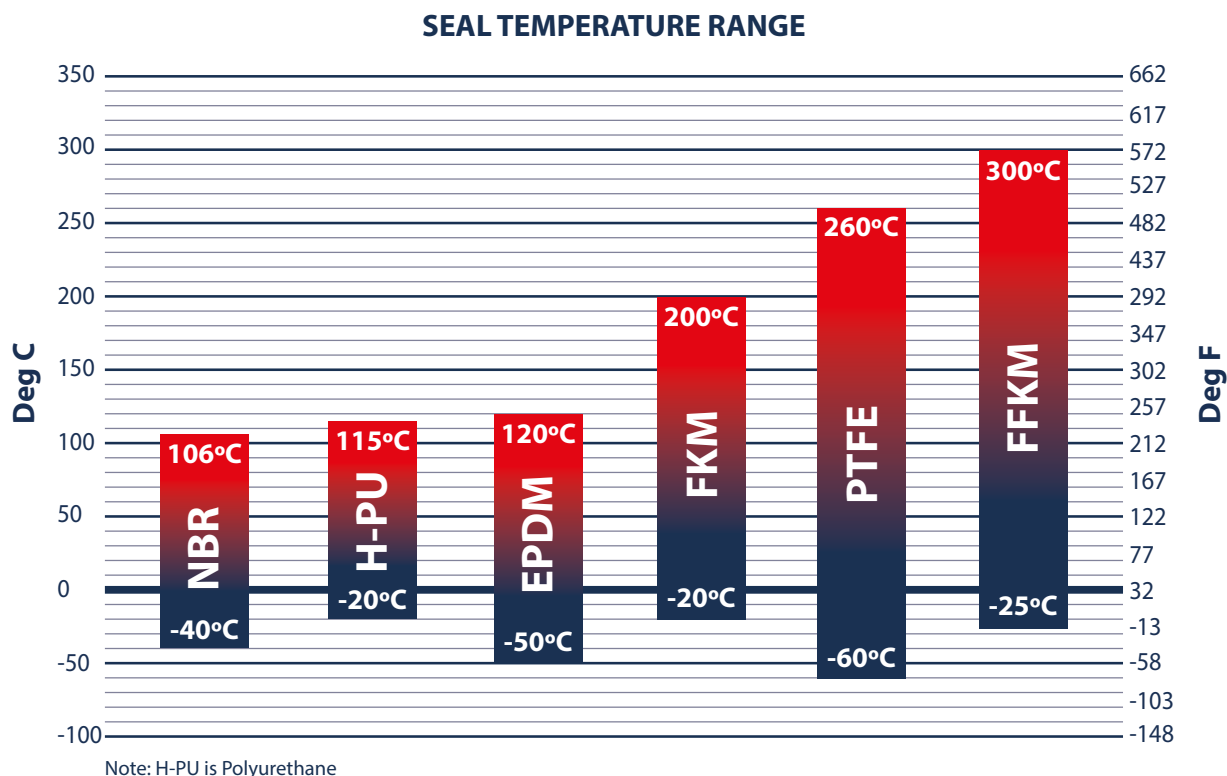
Since Holmbury has no control over the use and application of its products it cannot accept liability for any injury, loss or damage arising directly or indirectly from the use of its products. Information taken from this brochure is intended to serve as a guide only.

Customers should, through appropriate tests, satisfy themselves that the products are suitable for their intended use.

AVAILABLE SEALS AND TEMPERATURE RANGE

All carbon steel products have NBR Butadiene Rubber (NBR) seals fitted as standard.

All stainless steel products have FKM seals fitted as standard.



MATERIALS

Holmbury products are supplied in range of materials proven to meet the demanding environments of our customers and their applications. Exotic materials such as Monel and others available on request (subject to minimum manufacturing quantities).



Carbon steel with trivalent plating provides a wide temperature range, excellent chemical resistance and prevents red rust for up to 100 hours.



Brass offers excellent corrosion resistance. A wide temperature range and non-sparking properties are additional benefits.



Carbon steel with superior zinc nickel plating, provides a wide temperature range, excellent chemical resistance and prevents red rust for over 1200 hours.



Stainless steel has exceptional corrosion resistance, a wide temperature range, excellent chemical resistance and an aesthetically pleasing surface finish.

ALL PERFORMANCE CHARACTERISTICS STATED ARE IN ACCORDANCE WITH ISO 18869.

ACCESSORIES INFORMATION

DUST CAPS AND PLUGS

Dust Caps and Plugs are available in either PVC, aluminium, or stainless steel. Dust Caps and Plugs protect the couplings and valves from ingress of dirt and contaminants.



PARKING STATIONS

Constructed from trivalent plated carbon steel. Parking Stations are used to safely secure one half of the coupling to equipment when not connected.



SEAL KITS

Seal Kits supplied in a range of materials including FKM, NBR and FFKM, dependent on Series. Enabling the user to replace or upgrade existing seals to increase the lifespan of the coupling.



REPAIR KITS

Repair Kits for the HSC Series. These kits enable all components within the HSC Series to be replaced, increasing the coupling lifespan. The Repair Kits include replacement poppets, springs, seals and collets. Appropriate tools are also provided to fit the replacement parts. See the Holmbury website for instructional videos on replacing parts.



MOUNTING FLANGES

The flanges are either made from machined or pressed plated steel, dependant on body size. Designed for mounting the male half onto bulkheads.



VALVE ACCESSORIES

Valve Handles for a range of Ball Valve Series and sizes.

Replacement straight, offset or customised handles are available.

Valve Locking Kits for a range of Ball Valve Series and sizes. These are used to lock the handle in a set position so that it cannot be tampered with.



HOLMBURY PART CODING SYSTEM

The Holmbury part identification system provides a means of categorising parts by product series within the International Standards Organisation for hydraulic components. Primarily devised for quick release couplings the system has been adapted to other product series offered by the Holmbury Group.

This Part Coding System is for standard materials and seal type by Product Series.

See the specific Product Series pages for alternative materials, seals and thread types such as bulkhead connections.

The Holmbury part identification system adheres to the following format: **PSBS-G-TS-TT-TG** (as shown below).

Product Code Configurator Options					
PS	BS	G	TS	TT	TG
Product Series (Product Code)	Body Size*	Gender	Thread Size*	Thread Type	Thread Gender
Flat Face (HQ, HSS, HCP, H90, HQ90, H45, HP, FFC, EZFFC, HDB, HDSL, DTP, MC)	04 = 1/8 06 = 1/4 08 = 5/16 10 = 3/8 12 = 1/2 16 = 5/8 19 = 3/4 25 = 1 32 = 1 1/4 40 = 1 1/2 50 = 2	F M	02 = 1/8 04 = 1/4 06 = 3/8 08 = 1/2 10 = 5/8 12 = 3/4 16 = 1 20 = 1 1/4 24 = 1 1/2 32 = 2	G = BSPP N = NPTF S = SAE J = JIC FS = ORFS R = BSPT M = Metric	F= Blank M
Poppet / Ball (IA, IAZ, IAS, IB, IBZ, IBB, IBS, F, FS, HTN, KM)					
Agricultural (DINV, DNVZ, DINB, DNBZ, IAP, P, TB, IAPC)					
Screw to Connect (HFT, RK, HSC, HS, SHS, PSP, PSB, PLC, PTC, PTS, SP, SPS, TC, WSC, LC)					
Pressure Washing (PWC, PWS, HFB, HFS, HFC)					
Rotary Couplings (CRIL, CR90, SSIL, SS90)					

* Thread size availability is dependent on suitable body size.

HOLMBURY PART CODING SYSTEM

Product Series:	See each page for specific product code.
Body Size:	Specified as a metric value (Equivalent to Imperial Sizing).
Gender:	Specified as Female (F) or Male (M). The Female half is the receiving side and is commonly known as the coupling or socket. The Male half is known as the nipple, probe or plug side. (Based on national and cultural convention). On most Screw to Connect solutions this is NOT based on the gender of the thread but which half receives the poppet (For example the HS or RK series).
Thread Size:	Specified by numerical characters relating to the thread size which, with the exception of metric threads, is based on the dash system.
Thread Type:	Specified by characters relating to the thread type.
Thread Gender:	Specified as Male (M) as the Female is assumed (Blank).

HOLMBURY PART CODING SYSTEM EXAMPLE

Example: HCP12-M-08SM					
Product Series	Body Size	Gender	Thread Size	Thread Type	Thread Gender
HCP	12	M	8	SAE	M



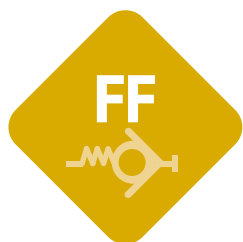
RECOMMENDED TORQUE SETTINGS

Metric Hydraulic Connections			JIC & SAE Hydraulic Connections		
BSPP Size	Tightening Torque		Thread	Tightening Torque	
	Nm	lbs/ft		Nm	lbs/ft
M10	18	13	5/16-24	10	7
M12	20	15	3/8-24	10	7
M14	25	19	7/16-20	14	10
M16	45	33	1/2-20	20	15
M18	50	37	9/16-18	22	20
M20	70	52	5/8-18	27	20
M22	75	55	3/4-16	48	35
M26	110	81	7/8-14	81	60
M27	130	96	1 1/16-12	108	79
M33	220	162	1 3/16-12	136	100
M42	230	170	1 5/16-12	148	108
M48	350	258	1 5/8-12	173	127
-	-	-	1 7/8-12	216	158
-	-	-	2 1/2-12	334	245

BSPP Hydraulic Connections			O.R.F.S Hydraulic Connections				
BSPP Size	Tightening Torque		SAE Dash	Thread	Equivalent BSP Size	Tightening Torque	
	Nm	lbs/ft				Nm	lbs/ft
1/8	17	12	-4	9/16-18	1/4	24	18
1/4	34	25	-6	11/16-16	3/8	33	24
3/8	47	35	-8	13/16-16	1/2	44	35
1/2	102	75	-10	1-14	5/8	58	43
5/8	122	90	-12	1 3/16-12	3/4	84	62
3/4	149	110	-16	1 7/16-12	1	115	85
1	203	150	-20	1 11/16-12	1 1/4	189	140
1 1/4	305	225	-24	2-12	1 1/2	244	180
1 1/2	305	225	-	-	-	-	-
2	400	296	-	-	-	-	-

Torque settings stated are for steel components with lightly oiled threads. Figures stated should be used as a guide only.
Holmbury Ltd & Holmbury Inc accept no liability with the use of these settings during installation.

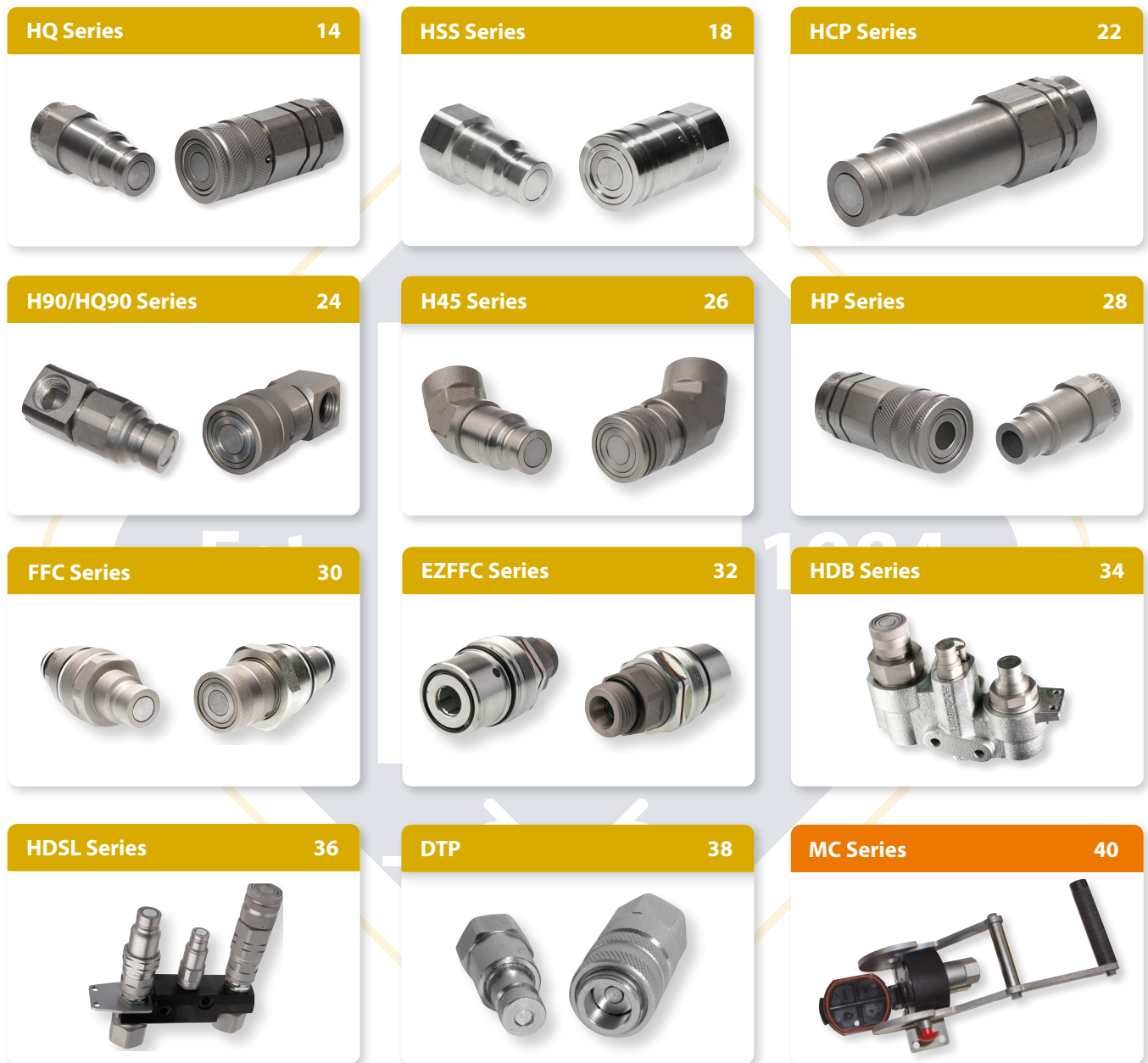




FLAT FACE COUPLINGS

Flat face couplings, including Holmbury's flagship HQ series, are renowned for high performance and easy wipe clean faces. Minimal fluid loss on disconnection. Minimal air or contaminant inclusion during connection. Safety locking sleeves included on most variants. The choice of many global OEMs.





Flat faced range of couplings for multiple applications



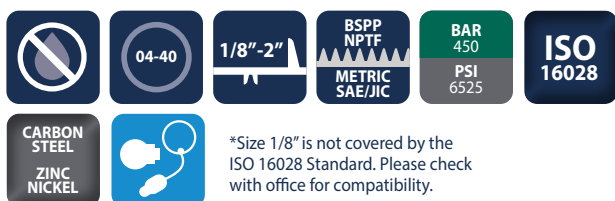
Flat face couplings made to the ISO 16028 Standard

HQ Series



INTRODUCTION

The HQ Series flat face couplings are Holmbury's flagship products, known globally for their leak free performance across multiple applications. The preferred choice for many global OEMs.



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals (FKM seals available)
- Also available in AISI 316 stainless steel (See HSS Series)

FEATURES

- Safety locking sleeve fitted as standard to prevent accidental disconnection
- Flat faces are easily wiped clean
- Minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow

ACCESSORIES

- Dust caps are available for the HQ Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F), (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- Couplings have been tested to the ISO 18869 Standard

APPLICATIONS

- High pressure pulse applications
- Leak free environments
- Construction plant
- Mobile equipment
- General industrial
- Agricultural
- Skid steer loaders

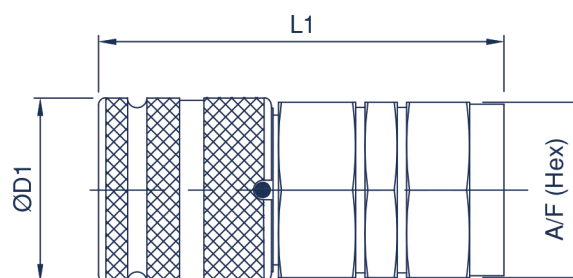
HQ PERFORMANCE CHARACTERISTICS

Body Size	HQ04	HQ06	HQ10	HQ12	HQ16	HQ19	HQ25	HQ32	HQ40
	Pressure in bar - Flow in LPM								
	Pressure in PSI - Flow in GPM								
Maximum working pressure (Coupled)	450 6525	400 5800	375 5438	350 5075	350 5075	350 5075	315 4568	250 3625	250 3625
Burst pressure (Coupled)	1750 25380	1600 23200	1550 22475	1400 20300	1500 21750	1450 21025	1000 14500	1100 15950	1000 14500
Burst pressure (Male)	1750 25380	1850 26825	1200 17400	1300 18850	1200 17400	1100 15950	1000 14500	1200 17400	1000 14500
Burst pressure (Female)	1750 25380	1220 17690	1050 15225	1000 14500	1050 15225	1050 15225	1000 14500	1200 17400	1000 14500
Rated flow	3 0.8	12 3.2	23 6.1	45 12	74 19.5	100 26.4	189 50	250 66	379 100

CAPS ACCESSORIES

FEMALE CAPS	MALE CAPS
HQ06-F-CAP	HQ06-M-CAP
HQ10-F-CAP	HQ10-M-CAP
HQ12-F-CAP	HQ12-M-CAP
HQ16-F-CAP	HQ16-M-CAP
HQ19-F-CAP	HQ19-M-CAP
HQ25-F-CAP	HQ25-M-CAP

Standard colour is red pvc, other colours available upon request



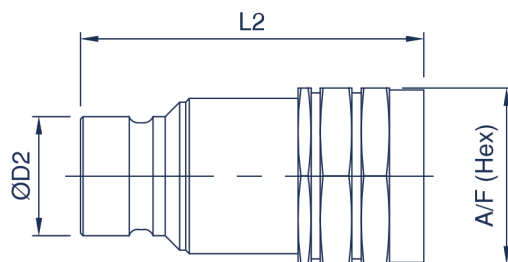
HQ FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
04 (1/8)	HQ04-F-02G	1/8 BSPP	20.4	0.80	40.2	1.58	17.0	0.67
	HQ04-F-02N	1/8 NPTF	20.4	0.80	40.2	1.58	17.0	0.67
	HQ04-F-04S	7/16-20 UNF	20.4	0.80	40.2	1.58	17.0	0.67
06 (1/4)	HQ06-F-04G	1/4 BSPP	28.0	1.10	54.0	2.13	27.0	1.06
	HQ06-F-04N	1/4 NPTF	28.0	1.10	54.0	2.13	27.0	1.06
	HQ06-F-06S	9/16-18 UNF	28.0	1.10	54.0	2.13	27.0	1.06
10 (3/8)	HQ10-F-06G	3/8 BSPP	32.0	1.26	69.0	2.72	30.0	1.18
	HQ10-F-06N	3/8 NPTF	32.0	1.26	69.0	2.72	30.0	1.18
	HQ10-F-06S	9/16-18 UNF	32.0	1.26	69.0	2.72	30.0	1.18
	HQ10-F-08G	1/2 BSPP	32.0	1.26	74.0	2.91	30.0	1.18
	HQ10-F-08N	1/2 NPTF	32.0	1.26	74.0	2.91	30.0	1.18
	HQ10-F-08S	3/4-16 UNF	32.0	1.26	74.0	2.91	30.0	1.18
12 (1/2)	HQ12-F-08G	1/2 BSPP	38.0	1.50	83.8	3.30	36.0	1.42
	HQ12-F-08N	1/2 NPTF	38.0	1.50	83.8	3.30	36.0	1.42
	HQ12-F-08S	3/4-16 UNF	38.0	1.50	83.8	3.30	36.0	1.42
	HQ12-F-10S	7/8-14 UNF	38.0	1.50	83.8	3.30	36.0	1.42
	HQ12-F-12G	3/4 BSPP	38.0	1.50	83.8	3.30	36.0	1.42
	HQ12-F-12N	3/4 NPTF	38.0	1.50	83.8	3.30	36.0	1.42
	HQ12-F-12S	1 1/16-12 UN	38.0	1.50	83.8	3.30	36.0	1.42
16 (5/8)	HQ16-F-12G	3/4 BSPP	42.0	1.65	83.8	3.30	41.0	1.61
	HQ16-F-12N	3/4 NPTF	42.0	1.65	83.8	3.30	41.0	1.61
	HQ16-F-12S	1 1/16-12 UN	42.0	1.65	83.8	3.30	41.0	1.61
19 (3/4)	HQ19-F-12G	3/4 BSPP	48.0	1.89	99.0	3.90	46.0	1.81
	HQ19-F-12N	3/4 NPTF	48.0	1.89	99.0	3.90	46.0	1.81
	HQ19-F-12S	1 1/16-12 UN	48.0	1.89	99.0	3.90	46.0	1.81
	HQ19-F-16G	1 BSPP	48.0	1.89	99.0	3.90	46.0	1.81
	HQ19-F-16N	1 NPTF	48.0	1.89	99.0	3.90	46.0	1.81
	HQ19-F-16S	1 5/16-12 UN	48.0	1.89	99.0	3.90	46.0	1.81
25 (1)	HQ25-F-16G	1 BSPP	55.0	2.17	108.5	4.27	55.0	2.17
	HQ25-F-16N	1 NPTF	55.0	2.17	108.5	4.27	55.0	2.17
	HQ25-F-16S	1 5/16-12 UN	55.0	2.17	108.5	4.27	55.0	2.17
	HQ25-F-20G	1 1/4 BSPP	55.0	2.17	111.5	4.39	55.0	2.17
	HQ25-F-20N	1 1/4 NPTF	55.0	2.17	111.5	4.39	55.0	2.17
	HQ25-F-20S	1 5/8-12 UN	55.0	2.17	111.5	4.39	55.0	2.17
32 (1 1/4)	HQ32-F-24G	1 1/2 BSPP	80.0	3.15	132.2	5.20	70.0	2.76
	HQ32-F-24N	1 1/2 NPTF	80.0	3.15	132.2	5.20	70.0	2.76
	HQ32-F-24S	1 7/8-12 UN	80.0	3.15	132.2	5.20	70.0	2.76
40 (1 1/2)	HQ40-F-32G	2 BSPP	102.8	4.05	147.3	5.80	80.0	3.15
	HQ40-F-32N	2 NPTF	102.8	4.05	147.3	5.80	80.0	3.15
	HQ40-F-32S	2 1/2-12 UN	102.8	4.05	147.3	5.80	80.0	3.15

For all other configurations or thread types please contact the sales office.



Flat face couplings made to the ISO 16028 Standard



HQ MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
04 (1/8)	HQ04-M-02G	1/8 BSPP	11.6	0.46	36.5	1.44	17.0	0.67
	HQ04-M-02N	1/8 NPTF	11.6	0.46	36.5	1.44	17.0	0.67
	HQ04-M-04S	7/16-20 UNF	11.6	0.46	36.5	1.44	17.0	0.67
06 (1/4)	HQ06-M-04G	1/4 BSPP	16.1	0.64	53.5	2.11	22.0	0.87
	HQ06-M-04N	1/4 NPTF	16.1	0.64	53.5	2.11	22.0	0.87
	HQ06-M-06S	9/16-18 UNF	16.1	0.64	53.5	2.11	22.0	0.87
10 (3/8)	HQ10-M-06G	3/8 BSPP	19.7	0.78	60.0	2.36	27.0	1.06
	HQ10-M-06N	3/8 NPTF	19.7	0.78	60.0	2.36	27.0	1.06
	HQ10-M-06S	9/16-18 UNF	19.7	0.78	60.0	2.36	27.0	1.06
	HQ10-M-08G	1/2 BSPP	19.7	0.78	63.0	2.48	27.0	1.06
	HQ10-M-08N	1/2 NPTF	19.7	0.78	63.0	2.48	27.0	1.06
	HQ10-M-08S	3/4-16 UNF	19.7	0.78	63.0	2.48	27.0	1.06
12 (1/2)	HQ12-M-08G	1/2 BSPP	24.5	0.97	71.0	2.80	36.0	1.42
	HQ12-M-08N	1/2 NPTF	24.5	0.97	71.0	2.80	36.0	1.42
	HQ12-M-08S	3/4-16 UNF	24.5	0.97	71.0	2.80	36.0	1.42
	HQ12-M-10S	7/8-14 UNF	24.5	0.97	71.0	2.80	36.0	1.42
	HQ12-M-12G	3/4 BSPP	24.5	0.97	71.0	2.80	36.0	1.42
	HQ12-M-12N	3/4 NPTF	24.5	0.97	71.0	2.80	36.0	1.42
16 (5/8)	HQ12-M-12S	1 1/16-12 UN	24.5	0.97	71.0	2.80	36.0	1.42
	HQ16-M-12G	3/4 BSPP	27.0	1.06	73.0	2.87	36.0	1.42
	HQ16-M-12N	3/4 NPTF	27.0	1.06	73.0	2.87	36.0	1.42
19 (3/4)	HQ16-M-12S	1 1/16-12 UN	27.0	1.06	73.0	2.87	36.0	1.42
	HQ19-M-12G	3/4 BSPP	29.9	1.18	84.0	3.31	46.0	1.81
	HQ19-M-12N	3/4 NPTF	29.9	1.18	84.0	3.31	46.0	1.81
	HQ19-M-12S	1 1/16-12 UN	29.9	1.18	84.0	3.31	46.0	1.81
	HQ19-M-16G	1 BSPP	29.9	1.18	84.0	3.31	46.0	1.81
	HQ19-M-16N	1 NPTF	29.9	1.18	84.0	3.31	46.0	1.81
25 (1)	HQ19-M-16S	1 5/16-12 UN	29.9	1.18	84.0	3.31	46.0	1.81
	HQ25-M-16G	1 BSPP	36.0	1.42	97.0	3.82	55.0	2.17
	HQ25-M-16N	1 NPTF	36.0	1.42	97.0	3.82	55.0	2.17
	HQ25-M-16S	1 5/16-12 UN	36.0	1.42	97.0	3.82	55.0	2.17
	HQ25-M-20G	1 1/4 BSPP	36.0	1.42	90.4	3.56	55.0	2.17
	HQ25-M-20N	1 1/4 NPTF	36.0	1.42	90.4	3.56	55.0	2.17
32 (1 1/4)	HQ25-M-20S	1 5/8-12 UN	36.0	1.42	90.4	3.56	55.0	2.17
	HQ32-M-24G	1 1/2 BSPP	57.0	2.24	119.7	4.71	70.0	2.76
	HQ32-M-24N	1 1/2 NPTF	57.0	2.24	119.7	4.71	70.0	2.76
40 (1 1/2)	HQ32-M-24S	1 7/8-12 UN	57.0	2.24	119.7	4.71	70.0	2.76
	HQ40-M-32G	2 BSPP	72.9	2.87	173.2	6.82	80.0	3.15
	HQ40-M-32S	2 NPTF	72.9	2.87	173.2	6.82	80.0	3.15
	HQ40-M-32N	2 1/2-12 UN	72.9	2.87	173.2	6.82	80.0	3.15

For all other configurations or thread types please contact the sales office.





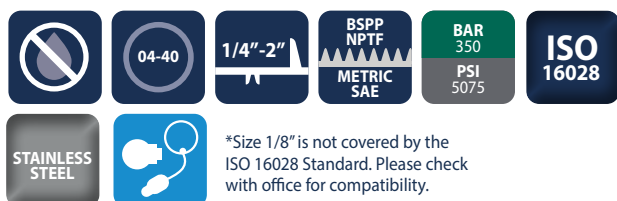
Stainless steel flat face couplings made to the ISO 16028 Standard

HSS Series



INTRODUCTION

Holmbury's HSS Series stainless steel flat face couplings incorporate all the benefits of the carbon steel HQ Series couplings, whilst being perfectly suited for corrosive fluids and environments.



*Size 1/8" is not covered by the ISO 16028 Standard. Please check with office for compatibility.



CONSTRUCTION

- AISI 316 stainless steel
- Fitted with FKM seals (Other seals available on request)
- Also available in carbon steel (See HQ Series)

FEATURES

- Safety locking sleeve fitted as standard to prevent accidental disconnection
- Flat faces are easily wiped clean
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow

ACCESSORIES

- Dust caps are available for the HSS Series

SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Corrosive fluids and environments
- Marine
- Offshore/onshore
- Chemical
- Pharmaceutical

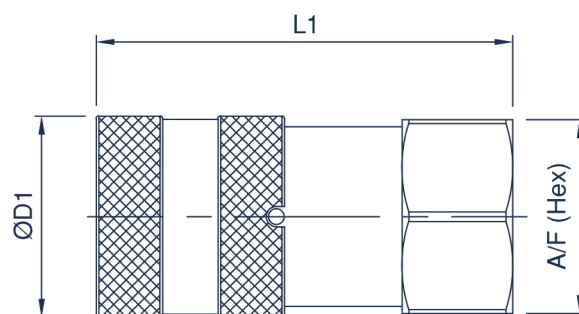
HSS PERFORMANCE CHARACTERISTICS

Body Size	HSS06	HSS10	HSS12	HSS16	HSS19	HSS25	HSS32	HSS40
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure (Coupled)	350	350	350	350	350	350	250	175
	5075	5075	5075	5075	5075	5075	3625	2538
Burst pressure (Coupled)	1300	1900	1600	1400	1400	1000	600	450
	18850	27550	23200	20300	20300	14500	8700	6525
Burst pressure (Male)	2600	1400	1100	1100	1100	1000	600	450
	37700	20300	15950	15950	15950	14500	8700	6525
Burst pressure (Female)	1600	1000	1000	1000	1000	1000	600	450
	23200	14500	14500	14500	14500	14500	8700	6525
Rated flow	12	23	45	74	100	189	250	379
	3.2	6.1	12	19.5	26.4	50	66	100

CAPS ACCESSORIES

FEMALE CAPS	MALE CAPS
HQ06-F-CAP	HQ06-M-CAP
HQ10-F-CAP	HQ10-M-CAP
HQ12-F-CAP	HQ12-M-CAP
HQ16-F-CAP	HQ16-M-CAP
HQ19-F-CAP	HQ19-M-CAP
HQ25-F-CAP	HQ25-M-CAP

Standard colour is red pvc, other colours available upon request



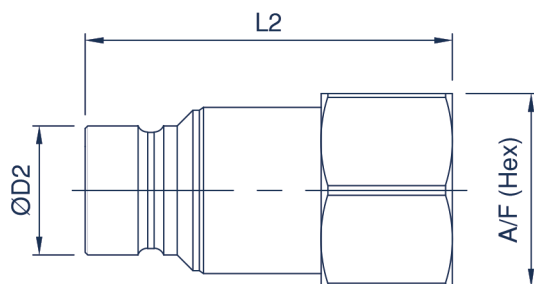
HSS FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	HSS06-F-04G	1/4 BSPP	28.0	1.10	51.3	2.02	22.0	0.87
	HSS06-F-04N	1/4 NPTF	28.0	1.10	51.3	2.02	22.0	0.87
	HSS06-F-06S	9/16-18UNF	28.0	1.10	54.0	2.13	22.0	0.87
10 (3/8)	HSS10-F-06G	3/8 BSPP	32.0	1.26	64.1	2.52	27.0	1.06
	HSS10-F-06N	3/8 NPTF	32.0	1.26	64.1	2.52	27.0	1.06
	HSS10-F-06S	9/16-18 UNF	32.0	1.26	69.0	2.72	30.0	1.18
	HSS10-F-08G	1/2 BSPP	32.0	1.26	68.0	2.68	27.0	1.06
	HSS10-F-08N	1/2 NPTF	32.0	1.26	68.0	2.68	27.0	1.06
	HSS10-F-08S	3/4-16 UNF	32.0	1.26	74.0	2.91	30.0	1.18
	HSS12-F-08G	1/2 BSPP	38.0	1.50	74.0	2.91	30.0	1.18
12 (1/2)	HSS12-F-08N	1/2 NPTF	38.0	1.50	74.0	2.91	30.0	1.18
	HSS12-F-08S	3/4-16 UNF	38.0	1.50	83.8	3.30	36.0	1.42
	HSS12-F-10S	7/8-14 UNF	38.0	1.50	83.8	3.30	36.0	1.42
	HSS12-F-12G	3/4 BSPP	38.0	1.50	80.0	3.15	34.0	1.34
	HSS12-F-12N	3/4 NPTF	38.0	1.50	80.0	3.15	34.0	1.34
	HSS12-F-12S	1 1/16-12 UN	38.0	1.50	83.8	3.30	36.0	1.42
16 (5/8)	HSS16-F-12G	3/4 BSPP	42.0	1.65	78.6	3.09	36.0	1.42
	HSS16-F-12N	3/4 NPTF	42.0	1.65	78.6	3.09	36.0	1.42
	HSS16-F-12S	1 1/16-12 UN	42.0	1.65	78.6	3.09	36.0	1.42
19 (3/4)	HSS19-F-12G	3/4 BSPP	48.0	1.89	93.0	3.66	44.0	1.73
	HSS19-F-12N	3/4 NPTF	48.0	1.89	93.0	3.66	44.0	1.73
	HSS19-F-12S	1 1/16-12 UN	48.0	1.89	99.0	3.90	46.0	1.81
	HSS19-F-16G	1 BSPP	48.0	1.89	93.0	3.66	45.0	1.77
	HSS19-F-16N	1 NPTF	48.0	1.89	93.0	3.66	45.0	1.77
	HSS19-F-16S	1 5/16-12 UN	48.0	1.89	99.0	3.90	46.0	1.81
25 (1)	HSS25-F-16G	1 BSPP	55.0	2.17	107.4	4.23	55.0	2.17
	HSS25-F-16N	1 NPTF	55.0	2.17	107.4	4.23	55.0	2.17
	HSS25-F-16S	1 5/16-12 UN	55.0	2.17	108.5	4.27	55.0	2.17
	HSS25-F-20G	1 1/4 BSPP	55.0	2.17	107.0	4.21	55.0	2.17
	HSS25-F-20N	1 1/4 NPTF	55.0	2.17	111.5	4.39	55.0	2.17
	HSS25-F-20S	1 5/8-12 UN	55.0	2.17	111.5	4.39	55.0	2.17
32 (1 1/4)	HSS32-F-24G	1 1/2 BSPP	80.0	3.15	132.2	5.20	65.0	2.56
	HSS32-F-24N	1 1/2 NPTF	80.0	3.15	132.2	5.20	65.0	2.56
	HSS32-F-24S	1 7/8-12 UN	80.0	3.15	132.2	5.20	65.0	2.56
40 (1 1/2)	HSS40-F-32G	2 BSPP	99.5	3.92	156.3	6.15	80.0	3.15
	HSS40-F-32S	2 NPTF	99.5	3.92	156.3	6.15	80.0	3.15
	HSS40-F-32N	2 1/2-12 UN	99.5	3.92	156.3	6.15	80.0	3.15

For all other configurations or thread types please contact the sales office.



Flat face couplings made to the ISO 16028 Standard



HSS MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	HSS06-M-04G	1/4 BSPP	16.2	0.64	49.0	1.93	22.0	0.86
	HSS06-M-04N	1/4NPTF	16.2	0.64	49.0	1.93	22.0	0.86
	HSS06-M-06S	9/16-18 UNF	16.2	0.64	49.0	1.93	22.0	0.86
10 (3/8)	HSS10-M-06G	3/8 BSPP	19.7	0.78	60.0	2.36	24.0	0.94
	HSS10-M-06N	3/8 NPTF	19.7	0.78	60.0	2.36	24.0	0.94
	HSS10-M-06S	9/16-18 UNF	19.7	0.78	60.0	2.36	27.0	1.06
	HSS10-M-08G	1/2 BSPP	19.7	0.78	60.0	2.36	27.0	1.06
	HSS10-M-08N	1/2 NPTF	19.7	0.78	60.0	2.36	27.0	1.06
	HSS10-M-08S	3/4-16 UNF	19.7	0.78	63.0	2.48	27.0	1.06
	HSS12-M-08G	1/2 BSPP	24.5	0.97	68.0	2.68	32.0	1.25
12 (1/2)	HSS12-M-08N	1/2 NPTF	24.5	0.97	68.0	2.68	32.0	1.25
	HSS12-M-08S	3/4-16 UNF	24.5	0.97	71.0	2.80	36.0	1.41
	HSS12-M-10S	7/8-14 UNF	24.5	0.97	71.0	2.80	36.0	1.41
	HSS12-M-12G	3/4 BSPP	24.5	0.97	70.0	2.76	34.0	1.33
	HSS12-M-12N	3/4 NPTF	24.5	0.97	70.0	2.76	34.0	1.33
	HSS12-M-12S	1 1/16-12 UN	24.5	0.97	71.0	2.80	36.0	1.41
16 (5/8)	HSS16-M-12G	3/4 BSPP	27.0	1.06	70.0	2.76	36.0	1.41
	HSS16-M-12N	3/4 NPTF	27.0	1.06	70.0	2.76	36.0	1.41
	HSS16-M-12S	1 1/16-12 UN	27.0	1.06	70.0	2.76	36.0	1.41
19 (3/4)	HSS19-M-12G	3/4 BSPP	29.9	1.18	82.0	3.23	45.0	1.76
	HSS19-M-12N	3/4 NPTF	29.9	1.18	82.0	3.23	45.0	1.76
	HSS19-M-12S	1 1/16-12 UN	29.9	1.18	84.0	3.31	46.0	1.80
	HSS19-M-16G	1 BSPP	29.9	1.18	84.0	3.31	41.0	1.61
	HSS19-M-16N	1 NPTF	29.9	1.18	84.0	3.31	41.0	1.61
	HSS19-M-16S	1 5/16-12 UN	29.9	1.18	84.0	3.31	46.0	1.80
25 (1)	HSS25-M-16G	1 BSPP	36.0	1.42	90.0	3.54	55.0	2.16
	HSS25-M-16N	1 NPTF	36.0	1.42	90.0	3.54	55.0	2.16
	HSS25-M-16S	1 5/16-12 UN	36.0	1.42	97.0	3.82	55.0	2.16
	HSS25-M-20G	1 1/4 BSPP	36.0	1.42	90.0	3.54	55.0	2.16
	HSS25-M-20N	1 1/4 NPTF	36.0	1.42	90.4	3.56	55.0	2.16
	HSS25-M-20S	1 5/8-12 UN	36.0	1.42	90.4	3.56	55.0	2.16
32 (1 1/4)	HSS32-M-24G	1 1/2 BSPP	57.0	2.24	111.7	4.40	65.0	2.55
	HSS32-M-24N	1 1/2 NPTF	57.0	2.24	111.7	4.40	65.0	2.55
	HSS32-M-24S	1 7/8-12 UN	57.0	2.24	111.7	4.40	65.0	2.55
40 (1 1/2)	HSS40-M-32G	2 BSPP	73.0	2.87	124.2	4.89	75.0	2.94
	HSS40-M-32S	2 NPTF	73.0	2.87	124.2	4.89	75.0	2.94
	HSS40-M-32N	2 1/2-12 UN	73.0	2.87	173.2	6.82	80.0	3.14

For all other configurations or thread types please contact the sales office.





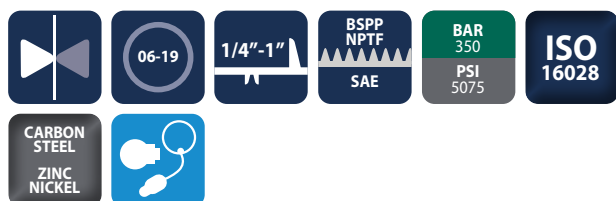
Connect under pressure flat face couplings made to the ISO 16028 Standard

HCP Series



INTRODUCTION

Holmbury's HCP Series couplings are designed to connect under pressure by hand with up to 350 bar (5075 psi) locked in the male half, making it an ideal choice for applications where the ability to connect under pressure is essential. The HCP Series also benefits from all the key features of the HQ Series flat face couplings.



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals

FEATURES

- Designed to connect with the HQ Series
- Flat faces are easily wiped clean
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow
- Connect under pressure with up to 350 bar (5075 psi) locked in the male half
- Female or male of HQ Series must have zero pressure when connecting to HCP range when under pressure

ACCESSORIES

- Dust caps are available for the HCP Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Hot environments where thermal expansion of trapped oil may take place
- High pressure pulse applications
- Leak free environments
- Construction plant
- Mobile equipment
- General industrial
- Agricultural
- Skid steer loaders

HCP PERFORMANCE CHARACTERISTICS

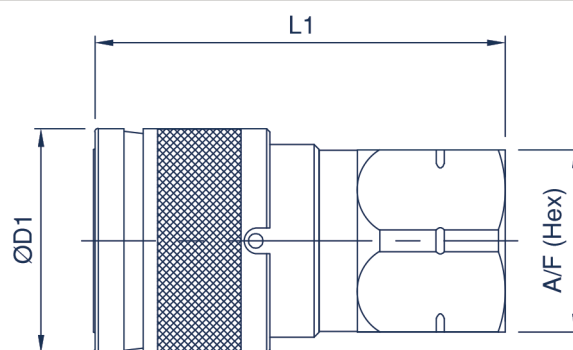
Body Size	HCP06M	HCP10M	HCP10F	HCP12M	HCP12F	HCP19M
	Pressure in bar - Flow in LPM					
	Pressure in PSI - Flow in GPM					
Maximum working pressure (Coupled)	350 5075	350 5075	300 4350	350 5075	290 4200	350 5075
Burst pressure (Coupled)	1330 18850	1700 24650	1220 17695	1500 17400	1160 6820	1600 23200
Burst pressure (Male *)	1300 18850	1500 21750	- -	1400 20300	- -	1600 23200
Burst pressure (Female **)	- -	- -	1040 15080	- -	1010 14650	- -
Rated flow	12 3.2	23 6.1	23 6.1	45 12	45 12	100 26.4

CAPS ACCESSORIES

FEMALE CAPS	MALE CAPS
NA	HQ06-M-CAP
HQ10-F-CAP	HQ10-M-CAP
HQ12-F-CAP	HQ12-M-CAP
NA	HQ19-M-CAP

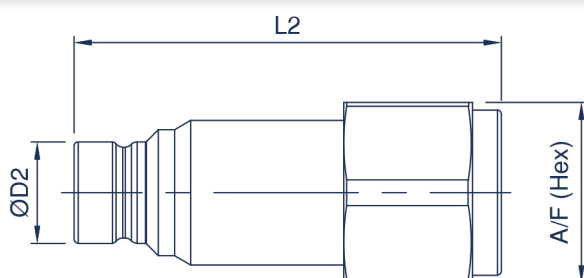
Standard colour is red pvc, other colours available upon request

**Coupled to standard female coupling *Coupled to standard male coupling



HCP FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	HCP10-F-06G	3/8 BSPP	30.0	1.18	56.2	2.21	23.8	0.94
	HCP10-F-06N	3/8 NPTF	30.0	1.18	57.1	2.25	23.8	0.94
	HCP10-F-06S	9/16-18 UNF	30.0	1.18	56.3	2.22	23.8	0.94
	HCP10-F-08G	1/2 BSPP	30.0	1.18	57.8	2.28	25.4	1.00
	HCP10-F-08N	1/2 NPTF	30.0	1.18	58.8	2.31	25.4	1.00
	HCP10-F-08S	3/4-16 UNF	30.0	1.18	58.1	2.29	23.8	0.94
12 (1/2)	HCP12-F-08G	1/2 BSPP	34.9	1.37	64.2	2.53	28.6	1.13
	HCP12-F-08N	1/2 NPTF	34.9	1.37	64.2	2.53	28.6	1.13
	HCP12-F-08S	3/4-16 UNF	34.9	1.37	64.4	2.54	28.6	1.13
	HCP12-F-10S	7/8-14 UNF	34.9	1.37	64.7	2.55	28.6	1.13
	HCP12-F-12G	3/4 BSPP	34.9	1.37	64.9	2.56	33.3	1.31
	HCP12-F-12N	3/4 NPTF	34.9	1.37	66.1	2.60	31.8	1.25
	HCP12-F-12S	1 1/16-12 UN	34.9	1.37	66.7	2.63	33.3	1.31



HCP MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	HCP06-M-06S	9/16-18 UNF	16.1	0.64	84.7	3.34	27.9	1.06
10 (3/8)	HCP10-M-06G	3/8 BSPP	19.7	0.78	87.0	3.43	30.0	1.18
	HCP10-M-06N	3/8 NPTF	19.7	0.78	87.0	3.43	30.0	1.18
	HCP10-M-06S	9/16-18 UNF	19.7	0.78	87.0	3.43	30.0	1.18
	HCP10-M-08G	1/2 BSPP	19.7	0.78	87.0	3.43	30.0	1.18
	HCP10-M-08N	1/2 NPTF	19.7	0.78	87.0	3.43	30.0	1.18
	HCP10-M-08S	3/4-16 UNF	19.7	0.78	87.0	3.43	27.0	1.06
12 (1/2)	HCP12-M-08G	1/2 BSPP	24.5	0.97	98.0	3.86	41.0	1.61
	HCP12-M-08N	1/2 NPTF	24.5	0.97	98.0	3.86	41.0	1.61
	HCP12-M-08S	3/4-16 UNF	24.5	0.97	98.0	3.86	41.0	1.61
	HCP12-M-10S	7/8-14 UNF	24.5	0.97	98.0	3.86	41.0	1.61
	HCP12-M-12G	3/4 BSPP	24.5	0.97	104.0	4.09	41.0	1.61
	HCP12-M-12N	3/4 NPTF	24.5	0.97	104.0	4.09	41.0	1.61
	HCP12-M-12S	1 1/16-12 UN	24.5	0.97	104.0	4.09	41.0	1.61
19 (3/4)	HCP19-M-12G	3/4 BSPP	29.9	1.18	114.0	4.49	46.0	1.81
	HCP19-M-12N	3/4 NPTF	29.9	1.18	114.0	4.49	46.0	1.81
	HCP19-M-12S	1 1/16 UN	29.9	1.18	114.0	4.49	46.0	1.81
	HCP19-M-16G	1 BSPP	29.9	1.18	114.0	4.49	46.0	1.81
	HCP19-M-16N	1 NPTF	29.9	1.18	114.0	4.49	46.0	1.81
	HCP19-M-16S	1 5/16-12 UN	29.9	1.18	114.0	4.49	46.0	1.81

For all other configurations or thread types please contact the sales office.



90° flat face couplings made to the ISO 16028 Standard

H90/HQ90 Series



INTRODUCTION

Holmbury's H90 and HQ90 Series is designed for use in applications that require a 90° elbow in the hydraulic circuit, such as digger booms. The right angle design allows for easy mounting without the need for additional fittings, reducing potential leakage paths and cost.



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals

FEATURES

- The H90 and HQ90 Series is designed to connect with the HQ and HCP Series flat face couplings
- 90° elbow incorporated into the coupling
- The HQ90 benefits from a reduced size back end, allowing installation into tighter spaces
- Flat faces are easily wiped clean
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow

ACCESSORIES

- Dust caps are available for the H90 and HQ90 Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Leak free environments
- Construction attachments
- Mobile equipment
- General industrial
- Agricultural
- Skid steer loaders

H90/HQ90 PERFORMANCE CHARACTERISTICS

Body Size	H9012/HQ9012
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure (Coupled)	350 5075
Burst pressure (Coupled)	1400 20300
Burst pressure (Male)	1300 18850
Burst pressure (Female)	1000 14500
Rated flow	45 12

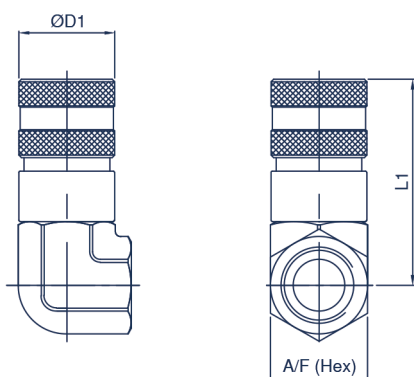
CAPS ACCESSORIES

FEMALE CAPS	MALE CAPS
HQ12-F-CAP	HQ12-M-CAP

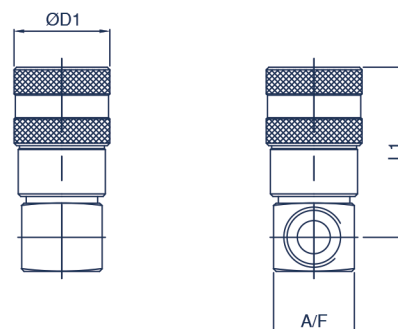
Standard colour is red pvc, other colours available upon request

H90/HQ90 Series

H90



HQ90



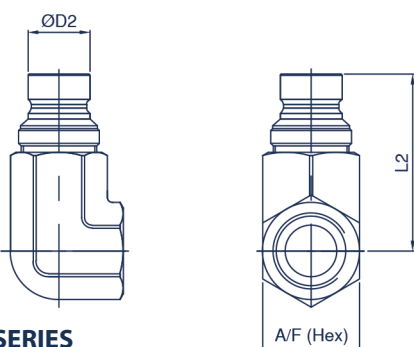
H90 FEMALE SERIES

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	H12-F-06JM-90	9/16-18 UNF	38.0	1.50	81.7	3.22	34.0	1.34
	H12-F-08S-90	3/4-16 UNF	38.0	1.50	81.7	3.22	34.0	1.34
	H12-F-12JM-90	1 1/16-12 UN	38.0	1.50	81.7	3.22	34.0	1.34

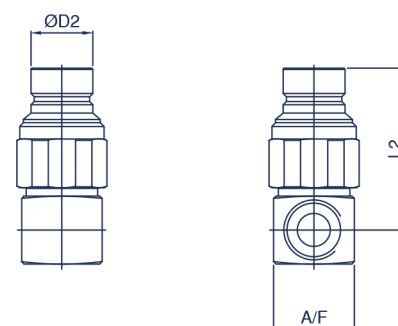
HQ90 FEMALE SERIES

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	HQ12-F-04S-90	7/16-20 UNF	38.0	1.50	64.3	2.53	32.0	1.26
	HQ12-F-06S-90	9/16-18 UNF	38.0	1.50	64.3	2.53	32.0	1.26
	HQ12-F-08N-90	1/2 NPTF	38.0	1.50	70.8	2.79	32.0	1.26
	HQ12-F-08S-90	3/4-16 UNF	38.0	1.50	66.9	2.63	32.0	1.26

H90



HQ90



H90 MALE SERIES

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	H12-M-06JM-90	9/16-18 UNF	24.5	0.97	68.2	2.69	34.0	1.34
	H12-M-08S-90	3/4-16 UNF	24.5	0.97	68.2	2.69	34.0	1.34
	H12-M-12JM-90	1 1/16-12 UN	24.5	0.97	68.2	2.69	34.0	1.34

HQ90 MALE SERIES

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	HQ12-M-04S-90	7/16-20 UNF	24.5	0.97	61.0	2.40	32.0	1.26
	HQ12-M-06S-90	9/16-18 UNF	24.5	0.97	61.0	2.40	32.0	1.26
	HQ12-M-08N-90	1/2 NPTF	24.5	0.97	67.9	2.67	32.0	1.26
	HQ12-M-08S-90	3/4-16 UNF	24.5	0.97	63.3	2.49	32.0	1.26

For all other configurations or thread types please contact the sales office.



Flat face 45° couplings made to the ISO 16028 Standard

H45 Series



INTRODUCTION

Holmbury's H45 Series is designed for use in applications that require a 45° elbow in the hydraulic circuit, such as digger booms. The angled design allows for easy mounting without the need for additional fittings, reducing potential leakage paths and cost.



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals

FEATURES

- The H45 Series is designed to connect with the HQ and HCP Series flat face couplings
- Flat faces are easily wiped clean
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow

ACCESSORIES

- Dust caps are available for the H45 Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- High pressure pulse applications
- Leak free environments
- Construction plant
- Mobile equipment
- General industrial
- Agricultural
- Skid steer loaders

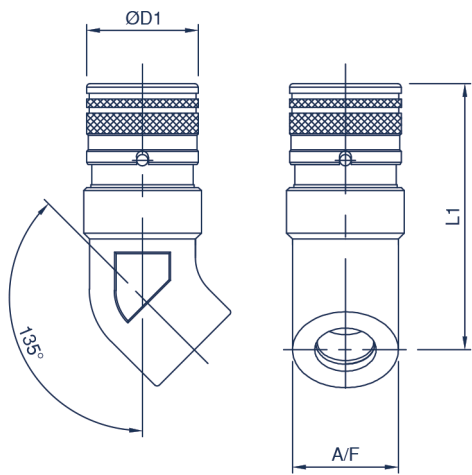
H45 PERFORMANCE CHARACTERISTICS

Body Size	H4512
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure (Coupled)	350 5075
Burst pressure (Coupled)	1400 20300
Burst pressure (Male)	1300 18850
Burst pressure (Female)	1000 14500
Rated flow	45 12

CAPS ACCESSORIES

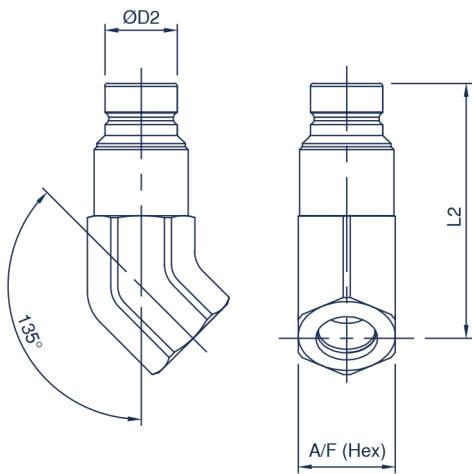
FEMALE CAPS	MALE CAPS
HQ12-F-CAP	HQ12-M-CAP

Standard colour is red pvc, other colours available upon request



H45 FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	H12-F-08S-45	3/4-16 UNF	38.0	1.50	72.8	2.87	36.0	1.42



H45 MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	H12-M-08S-45	3/4-16 UNF	24.5	0.97	69.0	2.72	33.0	1.30

Other thread sizes and configurations available on request



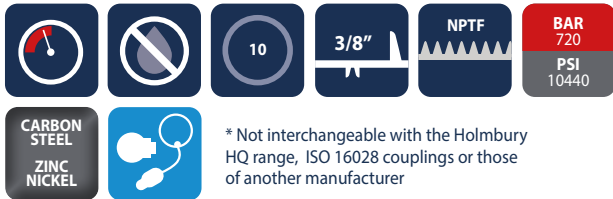
High pressure flat face couplings fitted with a safety locking sleeve

HP Series



INTRODUCTION

Holmbury's HP Series flat face couplings provide a leak free solution for high pressure applications up to 720 bar (10440 psi). The safety locking sleeve prevents accidental disconnection and can only be disconnected when the release notch and locking ball align.



* Not interchangeable with the Holmbury HQ range, ISO 16028 couplings or those of another manufacturer



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals

FEATURES

- Spring loaded safety locking sleeve fitted to prevent accidental disconnection, which automatically rotates through 90° when connected
- Flat faces are easily wiped clean
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow

ACCESSORIES

- Not applicable

SPECIFICATIONS

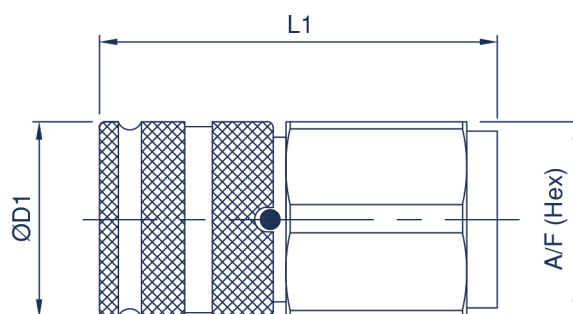
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Rail industries; especially on de-stressing kits
- Bolt tensioning
- Cutting tools
- Jacking applications
- Leak free environments
- High pressure plant and equipment
- High pressure pulse applications

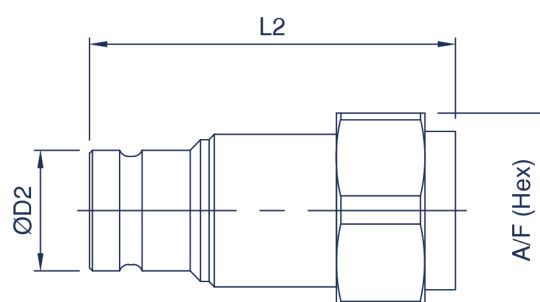
HP PERFORMANCE CHARACTERISTICS

Body Size	HP10
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure (Coupled)	720 10440
Burst pressure (Coupled)	2000 29000
Burst pressure (Male)	2000 29000
Burst pressure (Female)	1500 21750
Rated flow	23 6



HP FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	HP10-F-06N	3/8 NPTF	34.0	1.34	70.0	1.34	30.0	1.18



HP MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	HP10-M-06N	3/8 NPTF	19.5	0.77	60.00	2.36	27.0	1.06

For all other configurations or thread types please contact the sales office.



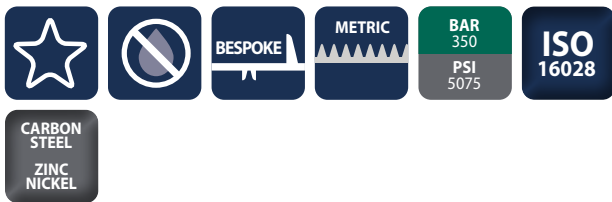
Replacement cartridge couplings for the Faster 4BD4FH/4BD4FI

FFC Series



INTRODUCTION

Holmbury's FFC Series is a replacement flat face cartridge coupling for the Faster 4BD4FH and 4BD4FI blocks.



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Currently available in sizes 12 and 19 body
- Fitted with NBR and Polyurethane seals

FEATURES

- Internal design allows the female half to always be depressurised when disconnected
- Male has built-in connect under pressure functionality
- Couplings are flat face and are designed to the ISO 16028 Standard
- Low profile coupling design minimises side loading

ACCESSORIES

- Not applicable

SPECIFICATIONS

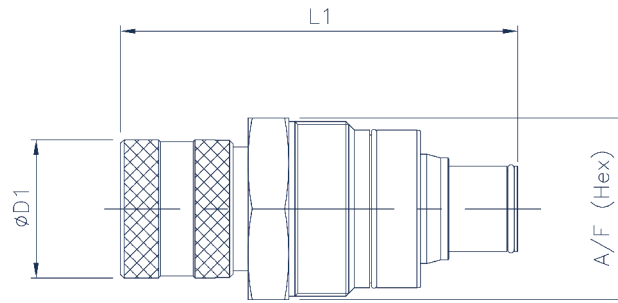
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- Maximum working pressure 350 bar

APPLICATIONS

- Quick changeover of construction equipment attachments
- Skid steer loaders
- Track loaders
- Excavators
- Compact loaders
- Utility vehicles

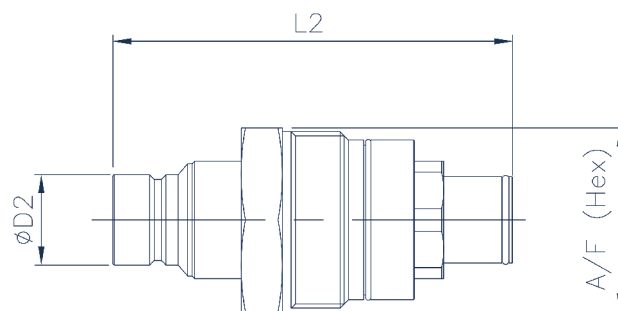
FFC PERFORMANCE CHARACTERISTICS

Body Size	FFC12	FFC19
	Pressure in bar - Flow in LPM	
	Pressure in PSI - Flow in GPM	
Maximum working pressure (Coupled)	350	350
	5075	5075
Burst pressure (Coupled)	1400	1450
	20300	21025
Burst pressure (Male)	1300	1100
	18850	15950
Burst pressure (Female)	1000	1050
	14500	15225
Rated flow	45	100
	12	26.4



FFC FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F		Fits Faster Model
			mm	inch	mm	inch	mm	inch	
12 (1/2)	FFC12-F-M46	M46x1.5	38.0	1.50	101.6	4.00	50.0	1.97	4BD4FI
	FFC12-F-M48	M48x1.5	38.0	1.50	109.3	4.65	50.0	1.97	4BD4FH
19 (3/4)	FFC19-F-M48	M48x1.5	48.0	1.89	131.2	5.16	50.0	1.97	4BD4FH



FFC MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F		Fits Faster Model
			mm	inch	mm	inch	mm	inch	
12 (1/2)	FFC12-M-M46	M46x1.5	24.5	0.97	96.5	3.80	42.0	1.65	4BD4FI
	FFC12-M-M48	M48x1.5	24.5	0.97	109.0	4.29	50.0	1.97	4BD4FH
19 (3/4)	FFC19-M-M48	M48x1.5	29.9	1.18	113.8	4.48	50.0	1.97	4BD4FH

For all other configurations or thread types please contact the sales office.

INDUSTRY INTERCHANGE

Holmbury Part No.	Faster Part No.
FFC12-F-M46	KIT 4FI12 F
FFC12-M-M46	KIT 4FI12M
FFC12-F-M48	KIT 4FH08 F
FFC12-M-M48	KIT 4FH08 M
FFC19-F-M48	KIT 4FH12 F
FFC19-M-M48	KIT 4FH12 M



Replacement decompression block cartridges

EZFFC Series



INTRODUCTION

EZFFC series replacement cartridges compatible with Faster 4BD4FI/FH blocks which can be fitted with standard HQ series ISO16028 couplings from your Holmbury distributor.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals

FEATURES

- Simple push action for decompression
- Available in 1/2" and 3/4" with M46 or M48 threads

ACCESSORIES

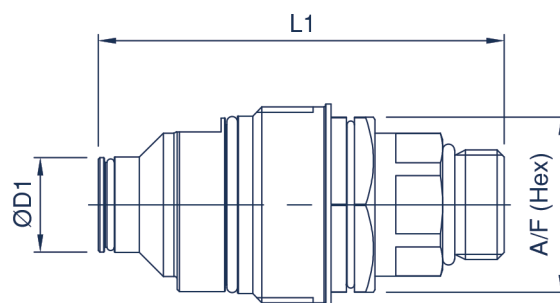
- Not applicable

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- Maximum working pressure 350 bar

APPLICATIONS

- Quick changeover of construction equipment attachments
- Skid steer loaders
- Track loaders
- Excavators
- Compact loaders
- Utility vehicles



EZFFC CARTRIDGE

Part Number	Thread Size	D1		L1		A/F		Fits Faster Model
		mm	inch	mm	inch	mm	inch	
EZFFC-M46	M46x1.5	46.0	1.81	88.1	3.47	32.0	1.26	4BD4FI
EZFFC-M48	M48x1.5	49.2	1.94	99.2	3.91	32.0	1.26	4BD4FH

For all other configurations or thread types please contact the sales office.





Decompression block

HDB Series



INTRODUCTION

Holmbury's HDB Series is a block coupling designed for the quick changeover of hydraulic attachments for skid steer loaders, compact loaders, backhoe loaders and compact utility vehicles. The decompression feature enables the operator to alleviate trapped pressure, allowing the quick and easy connection of various attachments.



CONSTRUCTION

- HDB block couplings are zinc nickel on body (1200 hours with no red rust in salt spray tests)
- Block body is ductile cast iron with trivalent plating
- Fitted with NBR and PTFE seals

FEATURES

- Decompression achieved by simple pull feature which also prevents accidental system discharge
- All couplings are flat face and are designed to the ISO 16028 Standard
- Low profile coupling design minimises side loading
- Coupling arrangement can be ordered in 1/2" (Size 12) for standard flow or 3/4" (Size 19) for high flow applications
- Case drain coupling is standard 3/8" (Size 10)

ACCESSORIES

- Not applicable

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- Maximum working pressure 350 bar
- Decompression force 130 Nm at 275 bar trapped pressure

APPLICATIONS

- Quick changeover of construction equipment attachments
- Skid steer loaders
- Track loaders
- Excavators
- Compact loaders
- Utility vehicles

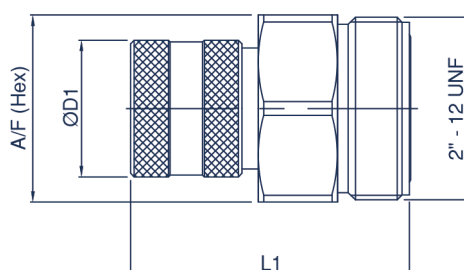
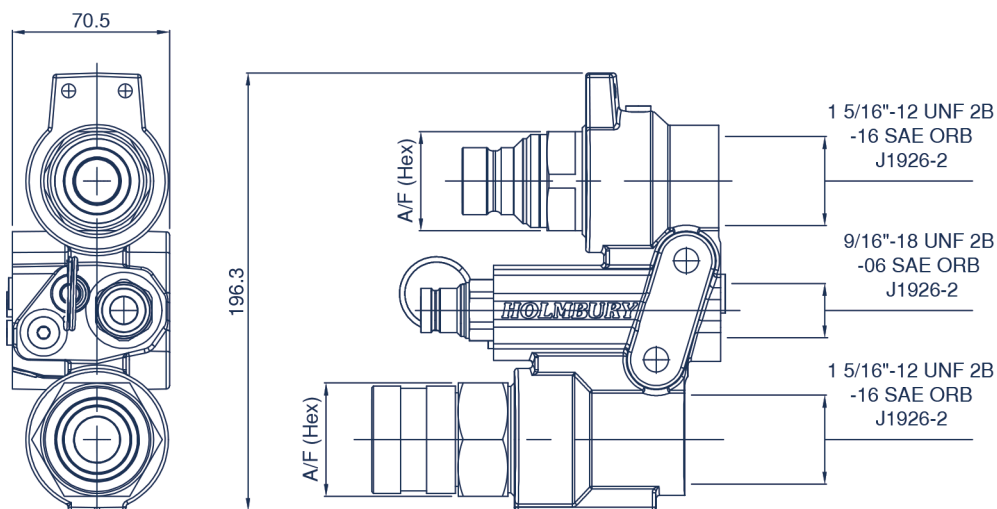
HDB PERFORMANCE CHARACTERISTICS

Body Size	HDB12	HDB19
	Pressure in bar - Flow in LPM	
	Pressure in PSI - Flow in GPM	
Maximum working pressure (Coupled)	350	350
	5075	5075
Burst pressure (Coupled)	1400	1450
	20300	21025
Burst pressure (Male)	1300	1100
	18850	15950
Burst pressure (Female)	1000	1050
	14500	15225
Rated flow	45	100
	12	26.4

HDB Series

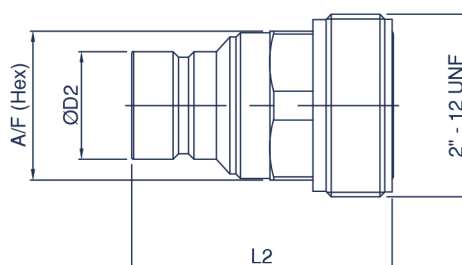
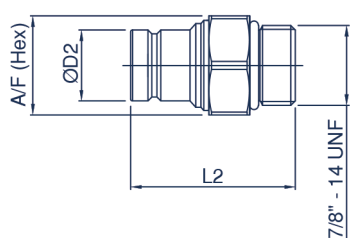
HDB BLOCK ASSEMBLY

Body Size	Part Number
12 (1/2)	HDB12
19 (3/4)	HDB19



HDB FEMALE REPLACEMENT PARTS

Body Size	Part Number	Thread Size	A/F		D1		L1	
			mm	inch	mm	inch	mm	inch
12 (1/2)	HDB12-F-24FSM	2-12 UN	51.0	2.01	38.0	1.50	70.0	2.76
19 (3/4)	HDB19-F-24FSM	2-12 UN	51.0	2.01	48.0	1.89	82.0	3.23



HDB MALE REPLACEMENT PARTS

Body Size	Part Number	Thread Size	A/F		D2		L2	
			mm	inch	mm	inch	mm	inch
10 (3/8)	HDB10-M-10SM	7/8-14 UNF	25.4	1.00	19.72	0.78	46.0	1.81
12 (1/2)	HDB12-M-24FSM	2-12 UN	44.4	1.75	24.52	0.97	62.1	2.44
19 (3/4)	HDB19-M-24FSM	2-12 UN	44.4	1.75	29.93	1.18	72.4	2.85

For all other configurations or thread types please contact the sales office.



HDSL Series decompression block

HDSL Series



INTRODUCTION

Holmbury's 3-Line decompression block offers the perfect easy connection solution for skid steer loader, track loader and compact wheel loader machines. Designed as a drop in replacement for the Faster 4BD4FH and 4BD4FI block assembly without any re-plumbing.



CONSTRUCTION

- Block body is anodised aluminium
- Rear ports are carbon steel trivalent plated
- Couplings are carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Supplied with NBR and Polyurethane seals with a back up ring in PTFE

FEATURES

- Push activation feature allows simple decompression
- Designed for use with standard 'off the shelf' ISO 16028 couplings
- Coupling arrangement can be ordered in 1/2" (Size 12) 5/8" (Size 16) or 3/4" (Size 19)
- Case drain coupling is standard 3/8" (Size 10)
- Alternative thread terminations available for rear ports

ACCESSORIES

- Not applicable

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- Maximum working pressure 350 bar

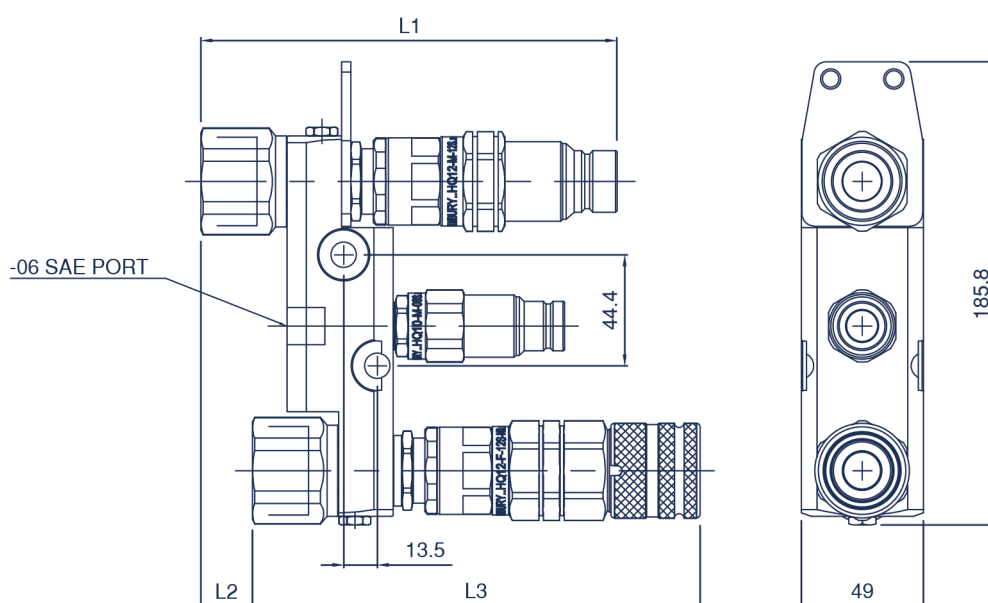
APPLICATIONS

- Quick changeover of construction equipment attachments
- Skid steer loaders
- Track loaders
- Excavators
- Compact loaders
- Utility vehicles

HDSL PERFORMANCE CHARACTERISTICS

Body Size	HDSL12	HDSL16	HDSL19
	Pressure in bar - Flow in LPM		
	Pressure in PSI - Flow in GPM		
Maximum working pressure (Coupled)	350	350	350
	5075	5075	5075
Burst pressure (Coupled)	1400	1500	1450
	20300	21750	21025
Burst pressure (Male)	1300	1200	1100
	18850	17400	15950
Burst pressure (Female)	1000	1050	1050
	14500	15225	15225
Rated flow	45	74	100
	12	19.5	26.4

HDSL Series

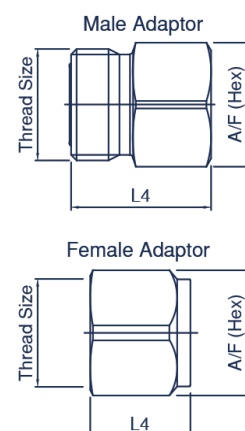


HDSL Series

Body Size	Part Number	Thread Size	L1		L2		L3	
			mm	inch	mm	inch	mm	inch
12 (1/2)	HDSL12-10JM	7/8-14 UNF	177.8	7.00	34.4	1.35	176.8	6.96
	HDSL12-12FSM	1 3/16-12 UN	171.0	6.73	34.4	1.35	170.0	6.69
	HDSL12-12JM	1 1/16-12 UN	175.5	6.91	34.4	1.35	174.9	6.89
	HDSL12-16S	1 5/16-12 UN	167.5	6.59	20.5	0.81	180.2	7.09
16 (5/8)	HDSL16-10JM	7/8-14 UNF	179.8	7.08	34.4	1.35	176.9	6.96
	HDSL16-12FSM	1 3/16-12 UN	173.0	6.81	34.4	1.35	170.1	6.70
	HDSL16-12JM	1 1/16-12 UN	177.5	6.99	34.4	1.35	175.0	6.89
	HDSL16-16S	1 5/16-12 UN	169.5	6.67	20.5	0.81	180.3	7.10
19 (3/4)	HDSL19-10JM	7/8-14 UNF	190.8	7.51	34.4	1.35	192.1	7.56
	HDSL19-12FSM	1 3/16-12 UN	184.0	7.24	34.4	1.35	185.3	7.30
	HDSL19-12JM	1 1/16-12 UN	188.5	7.42	34.4	1.35	190.2	7.49
	HDSL19-16S	1 5/16-12 UN	180.5	7.11	20.5	0.81	195.5	7.70

HDSL Replacement

Replacement Part Number	Thread Size	L4		A/F	
		mm	inch	mm	inch
HDSL-L-10JM	7/8-14 UNF	44.8	1.76	27.0	1.06
HDSL-L-12FSM	1 3/16-12 UN	38.0	1.50	30.0	1.18
HDSL-L-12JM	1 1/16-12 UN	42.5	1.67	27.0	1.06
HDSL-F-10JM	7/8-14 UNF	31.1	1.22	27.0	1.06
HDSL-F-12FSM	1 3/16-12 UN	24.3	0.96	30.0	1.18
HDSL-F-12JM	1 1/16-12 UN	29.2	1.15	27.0	1.06
HDSL-F-16S	1 5/16-12 UN	34.5	1.36	40.0	1.58
HDSL-CARTRIDGE	M19X1	96.2	3.79	31.8	1.25



For all other configurations or thread types please contact the sales office.



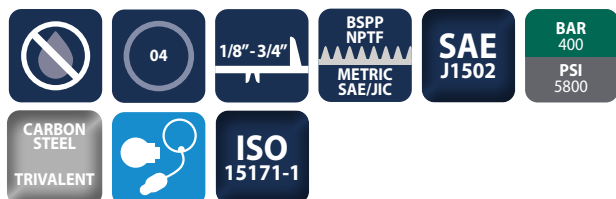
Diagnostic test point couplings made to the ISO 15171-1 and SAE J1502 standards

DTP Series



INTRODUCTION

Holmbury's DTP Series diagnostic test point couplings are designed to connect and disconnect pressure gauges to hydraulic systems for diagnostic purposes.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals

FEATURES

- DTP male series meets or exceeds pressure requirements of ISO 15171-1 and SAE J1502
- Pull sleeve allows push to connect operation
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow

ACCESSORIES

- Dust caps are available for male DTP

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Pressure testing on hydraulic systems

DTP PERFORMANCE CHARACTERISTICS

Body Size	DTP04
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure	420 6090
Burst pressure (Male)	1680 24360
Rated flow @ 5 Bar delta p	3 0.79

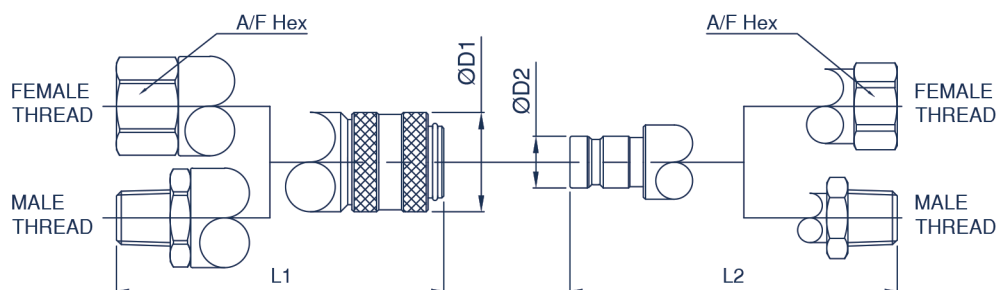
CAPS ACCESSORIES

MALE CAPS
DTP04-M-CAP

Standard colour is black pvc

DTP FEMALE COUPLING

Standard	Part Number	Thread Size	A/F		L1		D1	
			mm	inch	mm	inch	mm	inch
ISO 228	DTP04-F-04G	1/4 BSPP	21.0	0.83	50.0	1.97	24.0	0.94
ANSI B1.20.1	DTP04-F-02N	1/8 NPTF	21.0	0.83	45.5	1.79	24.0	0.94
	DTP04-F-04N	1/4 NPTF	21.0	0.83	50.0	1.97	24.0	0.94
ISO 11926	DTP04-F-04S	7/16-20 UNF	21.0	0.83	50.0	1.97	24.0	0.94
	DTP04-F-06S	9/16-18 UNF	21.0	0.83	53.0	2.09	24.0	0.94
ISO 228	DTP04-F-04GM	1/4 BSPP	19.0	0.75	57.3	2.26	24.0	0.94
ANSI B1.20.1	DTP04-F-04NM	1/4 NPTF	21.0	0.83	53.0	2.09	24.0	0.94



DTP MALE COUPLING

Standard	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
ISO 8434-3	DTP04-M-04FS-SWVL	9/16-18 UNF	12.6	0.50	53.0	2.09	19.0	0.75
	DTP04-M-06FS-SWVL	11/16-16 UN	12.6	0.50	57.9	2.28	19/22	.75/.87
	DTP04-M-08FS	13/16-16 UN	12.6	0.50	39.3	1.55	27.0	1.06
ISO 228	DTP04-M-04G	1/4 BSPP	12.6	0.50	42.8	1.69	19.0	0.75
ISO 8434-2	DTP04-M-04J	7/16-20 UNF	12.6	0.50	42.5	1.67	17.5	0.69
	DTP04-M-06J	9/16-18 UNF	12.6	0.50	43.8	1.72	21.0	0.83
	DTP04-M-08J	3/4-16 UNF	12.6	0.50	43.3	1.70	22.0	0.87
	DTP04-M-12J	1 1/16-12 UN	12.6	0.50	50.8	2.00	32.0	1.26
ANSI B1.20.1	DTP04-M-02N	1/8 NPTF	12.6	0.50	43.0	1.69	19.0	0.75
	DTP04-M-04N	1/4 NPTF	12.6	0.50	43.0	1.69	19.0	0.75
ISO 11926	DTP04-M-04S	7/16-20 UNF	12.6	0.50	43.0	1.69	19.0	0.75
ISO 228	DTP04-M-04GM	1/4 BSPP	12.6	0.50	39.9	1.57	19.0	0.75
ISO 6149	DTP04-M-14X1.5MM	M14X1.5	12.6	0.50	35.1	1.38	19.0	0.75
ANSI B1.20.1	DTP04-M-02NM	1/8 NPTF	12.6	0.50	46.8	1.84	19.0	0.75
	DTP04-M-04NM	1/4 NPTF	12.6	0.50	35.1	1.38	17.0	0.67
ISO 11926	DTP04-M-02SM	5/16-24 UNF	12.6	0.50	44.8	1.76	19.0	0.75
	DTP04-M-04SM	7/16-20 UNF	12.6	0.50	46.4	1.83	19.0	0.75
	DTP04-M-05SM	1/2-20 UNF	12.6	0.50	46.4	1.83	19.0	0.75
	DTP04-M-06SM	9/16-18 UNF	12.6	0.50	33.1	1.30	17.5	0.69

For all other configurations or thread types please contact the sales office.



Multi-Coupling

MC Series



INTRODUCTION

Holmbury's MC Series multiplate couplings allow the simultaneous connection of multiple hydraulic lines. The MC Series inherits the benefits of Holmbury's flat face coupling design. Currently available from stock in 2, 4 or 6 port design. Customisation available upon request.



CONSTRUCTION

- Couplings and handle - Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Body - Aluminium black anodised
- Button - Red Nylon
- Supplied with NBR and Polyurethane seals with a back up ring in PTFE

FEATURES

- Connect under pressure male couplings
- Couplings are circlip mounted and can be replaced or removed easily
- Flat faces are easily wiped clean
- Bidirectional flow

- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection

ACCESSORIES

- Spare parts are available upon request

SPECIFICATIONS & APPLICATIONS

- Operating temperatures -25 Degrees C (13 degrees F) to 100 degrees C (212 degrees F). Spare parts available on request
- Leak free environments
- Mobile construction equipment
- Tractors and other agricultural machinery

MC PERFORMANCE CHARACTERISTICS

Model	Port Configuration / Size	Working Pressure	Rated Flow @ 2 Bar delta p
		Pressure in bar - Flow in LPM	
		Pressure in PSI - Flow in GPM	
2 Lines	2x 10 (3/8)	350	50
		5076	13.2
	2x 12 (1/2)	280	79
		4061	20.9
4 Lines	4x 10 (3/8)	280	50
		4061	13.2
	4x 12 (1/2)	250	79
		3626	20.9
	2x 12 (1/2)	250	79 (12) 90 (16)
	2x 16 (5/8)	3626	20.9 (1/2) 23.8 (5/8)
5 Lines	4x 16 (5/8)	250	90
		3626	23.8
	3x 06 (1/4)	300	40 (06) 50 (10)
	2x 10 (3/8)	4351	10.6 (1/4) 13.2 (3/8)
6 Lines	6x 10 (3/8)	250	50
		3626	13.2

MC Series



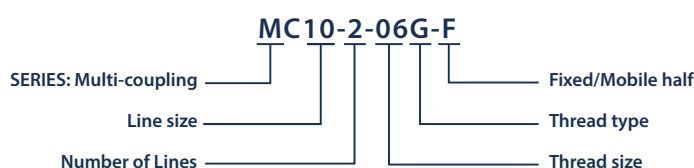
Model	Fixed Half	Mobile Half
2 Lines	MC10-2-06G-F	MC10-2-06G-M
	MC10-2-06S-F	MC10-2-06S-M
	MC12-2-08G-F	MC12-2-08G-M
	MC12-2-08S-F	MC12-2-08S-M
4 Lines	MC10-4-06G-F	MC10-4-06G-M
	MC10-4-06S-F	MC10-4-06S-M
	MC12-4-08G-F	MC12-4-08G-M
	MC12-4-08S-F	MC12-4-08S-M
	MC12-2-08G-16-2-12G-F	MC12-2-08G-16-2-12G-M
	MC12-2-08S-16-2-12S-F	MC12-2-08S-16-2-12S-M
	MC16-4-12G-F	MC16-4-12G-M
	MC16-4-12S-F	MC16-4-12S-M
5 Lines	MC06-2-04G-10-2-06G-F	MC06-2-04G-10-2-06G-M
	MC06-2-06S-10-2-06S-F	MC06-2-06S-10-2-06S-M
	MC06-3-04G-F	MC06-3-04G-M
	MC06-3-06S-F	MC06-3-06S-M
	MC06-3-04G-10-2-06G-F	MC06-3-04G-10-2-06G-M
	MC06-3-06S-10-2-06S-F	MC06-3-06S-10-2-06S-M
6 Lines	MC10-6-08G-F	MC10-6-08G-M
	MC10-6-08S-F	MC10-6-08S-M

Body Size	Threads available
06 (1/4)	1/4 BSPP
	9/16-18 UNF ORB
	M14X1.5 L8
	11/16-16 UN Male ORFS
10 (3/8)	3/8 BSPP
	1/2 BSPP
	11/16-16 UN Male ORFS
	13/16-16 UN Male ORFS
	9/16-18 UNF ORB
	M18X1.5 L12
12 (1/2)	M22X1.5 L15
	1/2 BSPP
	1/2 NPTF
	3/4-16 UNF ORB
	M22X1.5 L15
16 (5/8)	M24X1.5 S16
	3/4 BSPP
	1 1/16-12 UN ORB

Also available with 4 line, size 10 control valve mount and 5 line with optional electrical plug. For all other configurations or thread types please contact the sales office.

Multi-coupling Part Codes

The order codes for the multi-coupling series is similar to the system for identifying quick disconnects but varies in some respects. For models with one size line the format is as follows:





POPPET AND BALL COUPLINGS

Poppet and ball style couplings offer a durable and fast connecting solution for multi-purpose duties.





General purpose poppet and ball range of couplings for multiple applications.



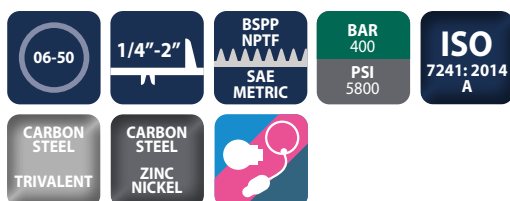
ISO A couplings made to the ISO 7241:2014 Series A Standard

IA, IAZ Series



INTRODUCTION

Holmbury's IA Series ISO A couplings are the ideal choice where a tough, durable product of superior quality is required. They are perfectly suited to agricultural and industrial applications.



CONSTRUCTION

- Carbon steel with trivalent plating (Zinc nickel plating available)
- Fitted with NBR seals (FKM seals available)
- Also available in AISI 316 stainless steel (See IAS Series)
- Also available in Ford style

FEATURES

- Optional zinc nickel plating provides corrosion resistance (1200 hours with no red rust in salt spray tests)
- Poppet valves have balanced springs
- Locking ball system allows quick connection
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs, parking stations and seal kits are available for the IA Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F), (with FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Agricultural
- Mobile
- Construction
- General hydraulics

IA, IAZ, PERFORMANCE CHARACTERISTICS

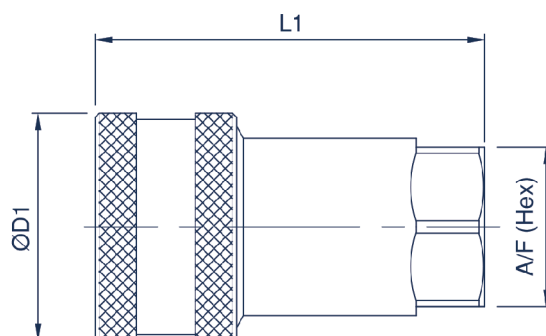
Body Size	IA06	IA10	IA12	IA19	IA25	IA32	IA40	IA50
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure (Coupled)	400	350	320	300	250	250	230	170
	5800	5075	4640	4350	3625	3625	3335	2465
Burst pressure (Coupled)	2200	1800	1500	1300	1200	1200	1000	800
	31900	26100	21750	18850	17400	17400	14500	11600
Burst pressure (Male)	1900	1700	1500	1300	1100	1200	1000	800
	27550	24650	21750	18850	15950	17400	14500	11600
Burst pressure (Female)	1800	1600	1400	1200	1000	1150	900	750
	26100	23200	20300	17400	14500	16675	13050	10875
Rated flow	3	23	45	106	189	288	379	757
	0.8	6.1	12	28	50	76	100	200

CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
IA06-F-PLUG	IA06-M-CAP
IA10-F-PLUG	IA10-M-CAP
IA12-F-PLUG	IA12-M-CAP
IA19-F-PLUG	IA19-M-CAP
IA25-F-PLUG	IA25-M-CAP

Standard colour is red pvc, other colours available upon request

IA, IAZ Series



IA, IAZ FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	IA06-F-04G	1/4 BSPP	26.0	1.02	50.0	1.79	19.0	0.75
	IA06-F-04N	1/4 NPTF	26.0	1.02	50.0	1.79	19.0	0.75
	IA06-F-04S	7/16-20 UNF	26.0	1.02	50.0	1.79	19.0	0.75
10 (3/8)	IA10-F-06G	3/8 BSPP	31.5	1.24	56.0	2.21	22.0	0.87
	IA10-F-06N	3/8 NPTF	31.5	1.24	56.0	2.21	22.0	0.87
	IA10-F-06S	9/16-18 UNF	31.5	1.24	56.0	2.21	22.0	0.87
12 (1/2)	IA12-F-08G	1/2 BSPP	38.6	1.52	66.3	2.61	27.0	1.06
	IA12-F-08N	1/2 NPTF	38.6	1.52	66.3	2.61	27.0	1.06
	IA12-F-08S	3/4-16 UNF	38.6	1.52	66.3	2.61	27.0	1.06
	IA12-F-10S	7/8-14 UNF	38.6	1.52	66.3	2.61	27.0	1.06
	IA12-F-12N	3/4 NPTF	38.6	1.52	66.3	2.61	32.0	1.26
19 (3/4)	IA19-F-12G	3/4 BSPP	48.0	1.89	80.2	3.16	34.0	1.34
	IA19-F-12N	3/4 NPTF	48.0	1.89	80.2	3.16	34.0	1.34
	IA19-F-12S	1 1/16-12 UN	48.0	1.89	80.2	3.16	34.0	1.34
25 (1)	IA25-F-16G	1 BSPP	56.0	2.20	94.2	3.71	41.0	1.61
	IA25-F-16N	1 NPTF	56.0	2.20	94.2	3.71	41.0	1.61
	IA25-F-16S	1 5/16-12 UN	56.0	2.20	94.2	3.71	41.0	1.61
32 (1 1/4)	IA32-F-20G	1 1/4 BSPP	69.4	2.73	117.1	4.61	50.0	1.97
	IA32-F-20N	1 1/4 NPTF	69.4	2.73	117.1	4.61	50.0	1.97
40 (1 1/2)	IA40-F-24G	1 1/2 BSPP	84.0	3.31	133.0	5.24	60.0	2.36
	IA40-F-24N	1 1/2 NPTF	84.0	3.31	133.0	5.24	60.0	2.36
50 (2)	IA50-F-32G	2 BSPP	99.0	3.90	165.0	6.50	75.0	2.95
	IA50-F-32N	2 NPTF	99.0	3.90	165.0	6.50	75.0	2.95

SEAL KITS

IA06-F-SEAL KIT
IA10-F-SEAL KIT
IA12-F-SEAL KIT
IA19-F-SEAL KIT
IA25-F-SEAL KIT
IA32-F-SEAL KIT
IA40-F-SEAL KIT
IA50-F-SEAL KIT

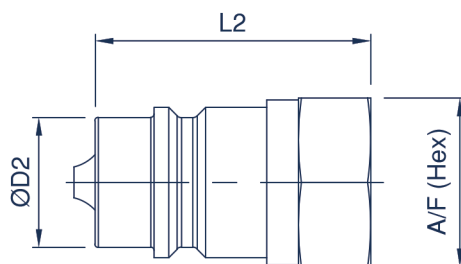
PARKING STATIONS

IA12-F-PARKING STATION

For all other configurations or thread types please contact the sales office.



ISO A couplings made to the ISO 7241:2014 Series A Standard



IA, IAZ MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	IA06-M-04G	1/4 BSPP	11.8	0.46	35.5	1.40	19.0	0.75
	IA06-M-04N	1/4 NPTF	11.8	0.46	35.5	1.40	19.0	0.75
	IA06-M-04S	7/16-20 UNF	11.8	0.46	35.5	1.40	19.0	0.75
10 (3/8)	IA10-M-06G	3/8 BSPP	17.3	0.68	36.5	1.44	22.0	0.87
	IA10-M-06N	3/8 NPTF	17.3	0.68	36.5	1.44	22.0	0.87
	IA10-M-06S	9/16-18 UNF	17.3	0.68	36.5	1.44	22.0	0.87
12 (1/2)	IA12-M-08G	1/2 BSPP	20.5	0.81	43.5	1.71	27.0	1.06
	IA12-M-08N	1/2 NPTF	20.5	0.81	43.5	1.71	27.0	1.06
	IA12-M-08S	3/4-16 UNF	20.5	0.81	43.5	1.71	27.0	1.06
	IA12-M-10S	7/8-14 UNF	20.5	0.81	43.5	1.71	27.0	1.06
	IA12-M-12N	3/4 NPTF	20.5	0.81	43.5	1.71	27.0	1.06
19 (3/4)	IA19-M-12G	3/4 BSPP	29.1	1.14	57.0	2.24	35.0	1.38
	IA19-M-12N	3/4 NPTF	29.1	1.14	57.0	2.24	35.0	1.38
	IA19-M-12S	1 1/16-12 UN	29.1	1.14	57.0	2.24	35.0	1.38
25 (1)	IA25-M-16G	1 BSPP	34.3	1.35	59.5	2.34	41.0	1.61
	IA25-M-16N	1 NPTF	34.3	1.35	59.5	2.34	41.0	1.61
	IA25-M-16S	1 5/16-12 UN	34.3	1.35	59.5	2.34	41.0	1.61
32 (1 1/4)	IA32-M-20G	1 1/4 BSPP	45.0	1.77	75.0	2.95	50.0	1.97
	IA32-M-20N	1 1/4 NPTF	45.0	1.77	75.0	2.95	50.0	1.97
40 (1 1/2)	IA40-M-24G	1 1/2 BSPP	55.0	2.16	83.5	3.29	60.0	2.36
	IA40-M-24N	1 1/2 NPTF	55.0	2.16	83.5	3.29	60.0	2.36
50 (2)	IA50-M-32G	2 BSPP	65.1	2.56	105.0	4.13	75.0	2.95
	IA50-M-32N	2 NPTF	65.1	2.56	105.0	4.13	75.0	2.95

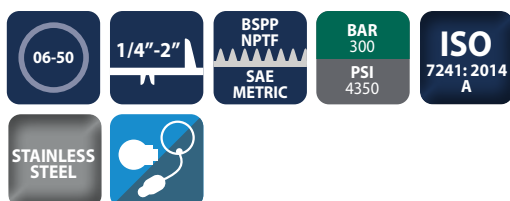
For all other configurations or thread types please contact the sales office.

IAS Series



INTRODUCTION

Holmbury's IAS Series stainless steel ISO A couplings incorporate all the benefits of the carbon steel IA Series couplings, whilst being perfectly suited for corrosive fluids and environments.



CONSTRUCTION

- AISI 316 stainless steel
- Fitted with FKM seals (Other seals available on request)
- Also available in carbon steel (See IA Series)

FEATURES

- Poppet valves have balanced springs
- Locking ball system allows for quick connection
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the IAS Series

SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Corrosive fluids and environments
- Marine
- Offshore/onshore
- Chemical
- Pharmaceutical

IAS PERFORMANCE CHARACTERISTICS

Body Size	IAS06	IAS10	IAS12	IAS19	IAS25	IAS32	IAS40	IAS50
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure (Coupled)	300	250	250	250	200	140	140	90
	4350	3625	3625	3625	2900	2030	2030	1305
Burst pressure (Coupled)	900	750	750	750	600	420	420	270
	13050	10880	10880	10880	8700	6090	6090	3925
Burst pressure (Male)	950	820	820	820	650	450	470	300
	13780	11895	11895	11895	9430	6530	6815	4350
Burst pressure (Female)	900	750	750	750	600	420	420	270
	13055	10880	10880	10880	8700	6090	6090	3915
Rated flow	3	23	45	106	189	288	379	757
	0.8	6.1	12	28	50	76	100	200

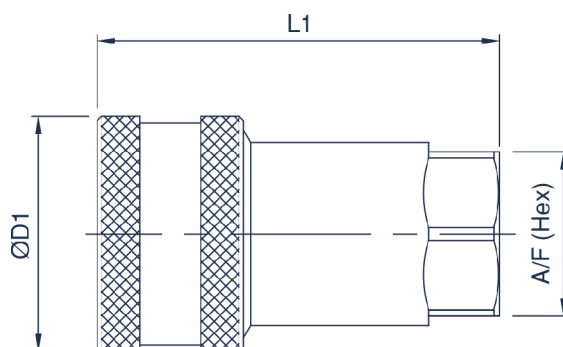
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
IA06-F-PLUG	IA06-M-CAP
IA10-F-PLUG	IA10-M-CAP
IA12-F-PLUG	IA12-M-CAP
IA19-F-PLUG	IA19-M-CAP
IA25-F-PLUG	IA25-M-CAP

Standard colour is red pvc, other colours available upon request



ISO A couplings made to the ISO 7241:2014 Series A Standard

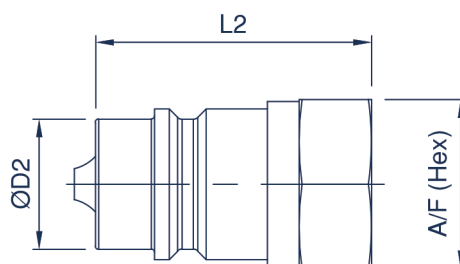


IAS FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	IAS06-F-04G	1/4 BSPP	26.0	1.02	50.0	1.79	19.0	0.75
	IAS06-F-04N	1/4 NPTF	26.0	1.02	50.0	1.79	19.0	0.75
	IAS06-F-04S	7/16-20 UNF	26.0	1.02	50.0	1.79	19.0	0.75
10 (3/8)	IAS10-F-06G	3/8 BSPP	31.5	1.24	56.0	2.21	22.0	0.87
	IAS10-F-06N	3/8 NPTF	31.5	1.24	56.0	2.21	22.0	0.87
	IAS10-F-06S	9/16-18 UNF	31.5	1.24	56.0	2.21	22.0	0.87
12 (1/2)	IAS12-F-08G	1/2 BSPP	38.6	1.52	66.3	2.61	27.0	1.06
	IAS12-F-08N	1/2 NPTF	38.6	1.52	66.3	2.61	27.0	1.06
	IAS12-F-08S	3/4-16 UNF	38.6	1.52	66.3	2.61	27.0	1.06
	IAS12-F-10S	7/8-14 UNF	38.6	1.52	66.3	2.61	27.0	1.06
	IAS12-F-12N	3/4 NPTF	38.6	1.52	66.3	2.61	32.0	1.26
19 (3/4)	IAS19-F-12G	3/4 BSPP	48.0	1.89	80.2	3.16	34.0	1.34
	IAS19-F-12N	3/4 NPTF	48.0	1.89	80.2	3.16	34.0	1.34
	IAS19-F-12S	1 1/16-12 UN	48.0	1.89	80.2	3.16	34.0	1.34
25 (1)	IAS25-F-16G	1 BSPP	56.0	2.20	94.2	3.71	41.0	1.61
	IAS25-F-16N	1 NPTF	56.0	2.20	94.2	3.71	41.0	1.61
	IAS25-F-16S	1 5/16-12 UN	56.0	2.20	94.2	3.71	41.0	1.61
32 (1 1/4)	IAS32-F-20G	1 1/4 BSPP	69.4	2.73	117.1	4.61	50.0	1.97
	IAS32-F-20N	1 1/4 NPTF	69.4	2.73	117.1	4.61	50.0	1.97
40 (1 1/2)	IAS40-F-24G	1 1/2 BSPP	84.0	3.31	133.0	5.24	60.0	2.36
	IAS40-F-24N	1 1/2 NPTF	84.0	3.31	133.0	5.24	60.0	2.36
50 (2)	IAS50-F-32G	2 BSPP	99.0	3.90	165.0	6.50	75.0	2.95
	IAS50-F-32N	2 NPTF	99.0	3.90	165.0	6.50	75.0	2.95

SEAL KITS

IAS06-F-SEAL KIT
 IAS10-F-SEAL KIT
 IAS12-F-SEAL KIT
 IAS19-F-SEAL KIT
 IAS25-F-SEAL KIT
 IAS32-F-SEAL KIT
 IAS40-F-SEAL KIT
 IAS50-F-SEAL KIT



IAS MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	IAS06-M-04G	1/4 BSPP	11.8	0.46	35.5	1.40	19.0	0.75
	IAS06-M-04N	1/4 NPTF	11.8	0.46	35.5	1.40	19.0	0.75
	IAS06-M-04S	7/16-20 UNF	11.8	0.46	35.5	1.40	19.0	0.75
10 (3/8)	IAS10-M-06G	3/8 BSPP	17.3	0.68	36.5	1.44	22.0	0.87
	IAS10-M-06N	3/8 NPTF	17.3	0.68	36.5	1.44	22.0	0.87
	IAS10-M-06S	9/16-18 UNF	17.3	0.68	36.5	1.44	22.0	0.87
12 (1/2)	IAS12-M-08G	1/2 BSPP	20.5	0.81	43.5	1.71	27.0	1.06
	IAS12-M-08N	1/2 NPTF	20.5	0.81	43.5	1.71	27.0	1.06
	IAS12-M-08S	3/4-16 UNF	20.5	0.81	43.5	1.71	27.0	1.06
	IAS12-M-10S	7/8-14 UNF	20.5	0.81	43.5	1.71	27.0	1.06
	IAS12-M-12N	3/4 NPTF	20.5	0.81	43.5	1.71	27.0	1.06
19 (3/4)	IAS19-M-12G	3/4 BSPP	29.1	1.14	57.0	2.24	35.0	1.38
	IAS19-M-12N	3/4 NPTF	29.1	1.14	57.0	2.24	35.0	1.38
	IAS19-M-12S	1 1/16-12 UN	29.1	1.14	57.0	2.24	35.0	1.38
25 (1)	IAS25-M-16G	1 BSPP	34.3	1.35	59.5	2.34	41.0	1.61
	IAS25-M-16N	1 NPTF	34.3	1.35	59.5	2.34	41.0	1.61
	IAS25-M-16S	1 5/16-12 UN	34.3	1.35	59.5	2.34	41.0	1.61
32 (1 1/4)	IAS32-M-20G	1 1/4 BSPP	45.0	1.77	75.0	2.95	50.0	1.97
	IAS32-M-20N	1 1/4 NPTF	45.0	1.77	75.0	2.95	50.0	1.97
40 (1 1/2)	IAS40-M-24G	1 1/2 BSPP	55.0	2.16	83.5	3.29	60.0	2.36
	IAS40-M-24N	1 1/2 NPTF	55.0	2.16	83.5	3.29	60.0	2.36
50 (2)	IAS50-M-32G	2 BSPP	65.1	2.56	105.0	4.13	75.0	2.95
	IAS50-M-32N	2 NPTF	65.1	2.56	105.0	4.13	75.0	2.95

For all other configurations or thread types please contact the sales office.



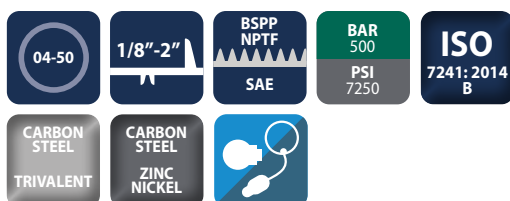
ISO B couplings made to the ISO 7241:2014 Series B Standard

IB, IBZ Series



INTRODUCTION

Holmbury's IB Series ISO B couplings are the ideal choice where a tough, durable product of superior quality is required. They are perfectly suited to agricultural and industrial applications.



CONSTRUCTION

- Carbon steel with trivalent plating (Zinc nickel plating available)
- Fitted with NBR seals (FKM seals available)
- Also available in AISI 316 stainless steel (See IBS Series)
- Also available in brass (See IBB Series)

FEATURES

- Optional zinc nickel plating provides corrosion resistance (1200 hours with no red rust in salt spray tests)
- Poppet valves have balanced springs
- Locking ball system allows quick connection
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the IB Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F), (with FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Agricultural
- Mobile
- Construction
- General hydraulics

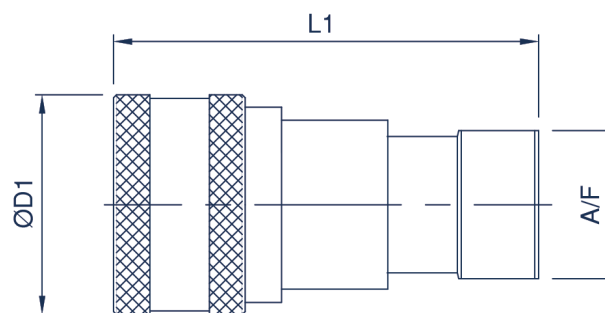
IB, IBZ PERFORMANCE CHARACTERISTICS

Body Size	IB04	IB06	IB10	IB12	IB19	IB25	IB40	IB50
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure (Coupled)	500 7250	400 5800	350 5075	300 4350	300 4350	280 4060	170 2465	100 1450
Burst pressure (Coupled)	2300 33350	1750 25375	1500 21750	1320 19140	1200 17400	1150 16675	700 10150	500 7250
Burst pressure (Male)	1900 27550	1700 24650	1500 21750	1350 19575	1300 18850	1060 15370	750 10875	600 8700
Burst pressure (Female)	1950 28275	1800 26100	1550 22475	1400 20300	1350 19575	1100 15950	800 11600	700 10150
Rated flow	3 0.8	12 3.2	23 6	45 12	106 28	189 50	375 99.1	560 148

CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
IB06-F-PLUG	IB06-M-CAP
IB10-F-PLUG	IB10-M-CAP
IB12-F-PLUG	IB12-M-CAP
IB19-F-PLUG	IB19-M-CAP
IB25-F-PLUG	IB25-M-CAP

Standard colour is red pvc, other colours available upon request



IB, IBZ FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
04 (1/8)	IB04-F-02G	1/8 BSPP	24.0	0.94	48.0	1.89	17.0	0.67
	IB04-F-02N	1/8 NPTF	24.0	0.94	48.0	1.89	17.0	0.67
	IB04-F-04S	7/16-20 UNF	24.0	0.94	48.0	1.89	17.0	0.67
06 (1/4)	IB06-F-04G	1/4 BSPP	28.5	1.12	58.0	2.28	19.0	0.75
	IB06-F-04N	1/4 NPTF	28.5	1.12	58.0	2.28	19.0	0.75
	IB06-F-06S	9/16-18 UNF	28.5	1.12	58.0	2.28	19.0	0.75
10 (3/8)	IB10-F-06G	3/8 BSPP	35.0	1.38	65.0	2.56	24.0	0.95
	IB10-F-06N	3/8 NPTF	35.0	1.38	65.0	2.56	24.0	0.95
	IB10-F-06S	9/16-18 UNF	35.0	1.38	65.0	2.56	24.0	0.95
	IB10-F-08S	3/4-16 UN	35.0	1.38	69.0	2.72	24.0	0.95
12 (1/2)	IB12-F-08G	1/2 BSPP	44.5	1.75	74.0	2.91	28.5	1.12
	IB12-F-08N	1/2 NPTF	44.5	1.75	74.0	2.91	28.5	1.12
	IB12-F-08S	3/4-16 UNF	44.5	1.75	74.0	2.91	28.5	1.12
	IB12-F-10S	7/8-14 UNF	44.5	1.75	74.0	2.91	28.5	1.12
19 (3/4)	IB19-F-12G	3/4 BSPP	54.0	2.13	92.0	3.62	36.0	1.42
	IB19-F-12N	3/4 NPTF	54.0	2.13	92.0	3.62	36.0	1.42
	IB19-F-12S	1 1/16-12 UN	54.0	2.13	92.0	3.62	36.0	1.42
25 (1)	IB25-F-16G	1 BSPP	64.0	2.52	103.0	4.06	41.0	1.61
	IB25-F-16N	1 NPTF	64.0	2.52	103.0	4.06	41.0	1.61
	IB25-F-16S	1 5/16-12 UN	64.0	2.52	103.0	4.06	41.0	1.61
40 (1 1/2)	IB40-F-20G	1 1/4 BSPP	73.5	2.89	124.0	4.88	65.0	2.56
	IB40-F-20N	1 1/4 NPTF	73.5	2.89	124.0	4.88	65.0	2.56
	IB40-F-24G	1 1/2 BSPP	73.5	2.89	124.0	4.88	65.0	2.56
	IB40-F-24N	1 1/2 NPT	73.5	2.89	124.0	4.88	65.0	2.56
50 (2)	IB50-F-32G	2 BSPP	101.0	3.98	141.5	5.57	90.0	3.54
	IB50-F-32N	2 NPTF	101.0	3.98	141.5	5.57	90.0	3.54

SEAL KITS

IB04-F-SEAL KIT

IB06-F-SEAL KIT

IB10-F-SEAL KIT

IB12-F-SEAL KIT

IB19-F-SEAL KIT

IB25-F-SEAL KIT

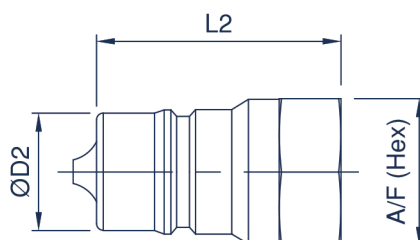
IB40-F-SEAL KIT

IB50-F-SEAL KIT

For all other configurations or thread types please contact the sales office.



ISO B couplings made to the ISO 7241:2014 Series B Standard



IB, IBZ MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
04 (1/8)	IB04-M-02G	1/8 BSPP	10.9	0.43	29.0	1.14	14.0	0.55
	IB04-M-02N	1/8 NPTF	10.9	0.43	29.0	1.14	14.0	0.55
	IB04-M-04S	7/16-20 UNF	10.9	0.43	29.0	1.14	14.0	0.55
06 (1/4)	IB06-M-04G	1/4 BSPP	14.2	0.56	36.0	1.42	19.0	0.75
	IB06-M-04N	1/4 NPTF	14.2	0.56	36.0	1.42	19.0	0.75
	IB06-M-06S	9/16-18 UNF	14.2	0.56	36.0	1.42	19.0	0.75
10 (3/8)	IB10-M-06G	3/8 BSPP	19.1	0.75	40.0	1.57	24.0	0.95
	IB10-M-06N	3/8 NPTF	19.1	0.75	40.0	1.57	24.0	0.95
	IB10-M-06S	9/16-18 UNF	19.1	0.75	40.0	1.57	24.0	0.95
	IB10-M-08S	3/4-16 UN	19.1	0.75	44.0	1.73	24.0	0.95
12 (1/2)	IB12-M-08G	1/2 BSPP	23.5	0.93	46.5	1.83	28.5	1.12
	IB12-M-08N	1/2 NPTF	23.5	0.93	46.5	1.83	28.5	1.12
	IB12-M-08S	3/4-16 UNF	23.5	0.93	46.5	1.83	28.5	1.12
	IB12-M-10S	7/8-14 UNF	23.5	0.93	46.5	1.83	28.5	1.12
19 (3/4)	IB19-M-12G	3/4 BSPP	31.4	1.24	56.0	2.20	36.0	1.42
	IB19-M-12N	3/4 NPTF	31.4	1.24	56.0	2.20	36.0	1.42
	IB19-M-12S	1 1/16-12 UN	31.4	1.24	56.0	2.20	36.0	1.42
25 (1)	IB25-M-16G	1 BSPP	37.8	1.49	63.0	2.48	41.0	1.61
	IB25-M-16N	1 NPTF	37.8	1.49	63.0	2.48	41.0	1.61
	IB25-M-16S	1 5/16-12 UN	37.8	1.49	63.0	2.48	41.0	1.61
40 (1 1/2)	IB40-M-20G	1 1/4 BSPP	44.5	1.75	122.0	4.80	65.0	2.56
	IB40-M-20N	1 1/4 NPTF	44.5	1.75	122.0	4.80	65.0	2.56
	IB40-M-24G	1 1/2 BSPP	44.5	1.75	122.0	4.80	65.0	2.56
	IB40-M-24N	1 1/2 NPTF	44.5	1.75	122.0	4.80	65.0	2.56
50 (2)	IB50-M-32G	2 BSPP	63.2	2.49	139.2	5.48	90.0	3.54
	IB50-M-32N	2 NPTF	63.2	2.49	139.2	5.48	90.0	3.54

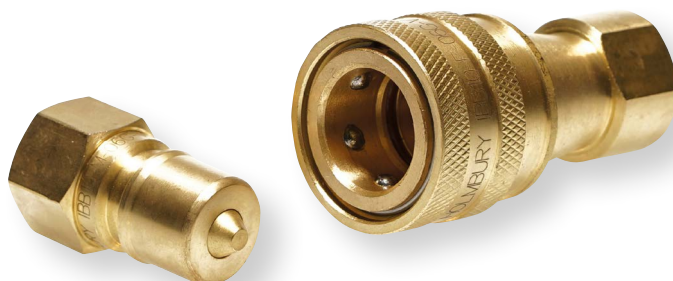
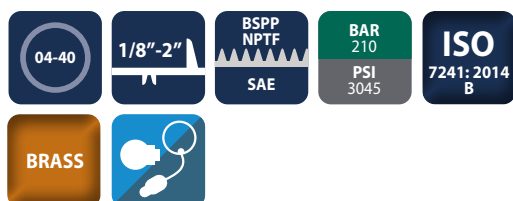
For all other configurations or thread types please contact the sales office.

IBB Series



INTRODUCTION

Holmbury's IBB Series brass ISO B couplings incorporate all the benefits of the carbon steel IB Series couplings whilst providing good corrosion resistance for specific applications.



CONSTRUCTION

- Brass body
- AISI 304 spring and AISI 304 locking ball
- Fitted with FKM seals
- Also available in carbon steel (See IB Series)
- Also available in AISI 316 stainless steel (See IBS Series)

FEATURES

- Poppet valves have balanced springs
- Locking ball system allows quick connection
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the IBB Series

SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Cooling systems
- Marine
- Offshore/onshore
- Chemical
- Pharmaceutical

IBB PERFORMANCE CHARACTERISTICS

Body Size	IBB04	IBB06	IBB10	IBB12	IBB19	IBB25
	Pressure in bar - Flow in LPM					
	Pressure in PSI - Flow in GPM					
Maximum working pressure (Coupled)	210 3046	210 3046	180 2611	180 2611	140 2031	140 2031
Burst pressure (Coupled)	2300 33350	1750 25375	1500 21750	1320 19140	1200 17400	1150 16675
Burst pressure (Male)	1900 27550	1700 24650	1500 21750	1350 19575	1300 18850	1060 15370
Burst pressure (Female)	1950 28275	1800 26100	1550 22475	1400 20300	1350 19575	1100 15950
Rated flow	3 0.8	12 3.2	23 6	45 12	106 28	189 50

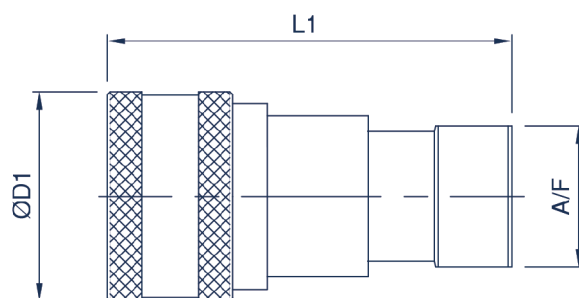
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
IB06-F-PLUG	IB06-M-CAP
IB10-F-PLUG	IB10-M-CAP
IB12-F-PLUG	IB12-M-CAP
IB19-F-PLUG	IB19-M-CAP
IB25-F-PLUG	IB25-M-CAP

Standard colour is red pvc, other colours available upon request



ISO B couplings made to the ISO 7241:2014 Series B Standard

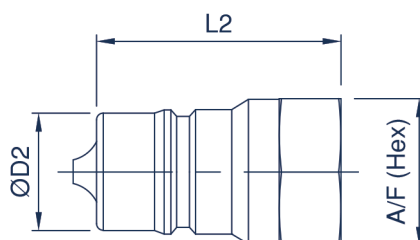


IBB FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
04 (1/8)	IBB04-F-02G	1/8 BSPP	24.0	0.94	48.0	1.89	17.0	0.67
	IBB04-F-02N	1/8 NPTF	24.0	0.94	48.0	1.89	17.0	0.67
	IBB04-F-04S	7/16-20 UNF	24.0	0.94	48.0	1.89	17.0	0.67
06 (1/4)	IBB06-F-04G	1/4 BSPP	28.5	1.12	58.0	2.28	19.0	0.75
	IBB06-F-04N	1/4 NPTF	28.5	1.12	58.0	2.28	19.0	0.75
	IBB06-F-06S	9/16-18 UNF	28.5	1.12	58.0	2.28	19.0	0.75
10 (3/8)	IBB10-F-06G	3/8 BSPP	35.0	1.38	65.0	2.56	24.0	0.95
	IBB10-F-06N	3/8 NPTF	35.0	1.38	65.0	2.56	24.0	0.95
	IBB10-F-06S	9/16-18 UNF	35.0	1.38	65.0	2.56	24.0	0.95
	IBB10-F-08S	3/4-16 UN	35.0	1.38	69.0	2.72	24.0	0.95
12 (1/2)	IBB12-F-08G	1/2 BSPP	44.5	1.75	74.0	2.91	28.5	1.12
	IBB12-F-08N	1/2 NPTF	44.5	1.75	74.0	2.91	28.5	1.12
	IBB12-F-08S	3/4-16 UNF	44.5	1.75	74.0	2.91	28.5	1.12
	IBB12-F-10S	7/8-14 UNF	44.5	1.75	74.0	2.91	28.5	1.12
19 (3/4)	IBB19-F-12G	3/4 BSPP	54.0	2.13	92.0	3.62	36.0	1.42
	IBB19-F-12N	3/4 NPTF	54.0	2.13	92.0	3.62	36.0	1.42
	IBB19-F-12S	1 1/16-12 UN	54.0	2.13	92.0	3.62	36.0	1.42
25 (1)	IBB25-F-16G	1 BSPP	64.0	2.52	103.0	4.06	41.0	1.61
	IBB25-F-16N	1 NPTF	64.0	2.52	103.0	4.06	41.0	1.61
	IBB25-F-16S	1 5/16-12 UN	64.0	2.52	103.0	4.06	41.0	1.61
40 (1 1/2)	IBB40-F-20G	1 1/4 BSPP	73.5	2.89	124.0	4.88	65.0	2.56
	IBB40-F-20N	1 1/4 NPTF	73.5	2.89	124.0	4.88	65.0	2.56
	IBB40-F-24G	1 1/2 BSPP	73.5	2.89	124.0	4.88	65.0	2.56
	IBB40-F-24N	1 1/2 NPT	73.5	2.89	124.0	4.88	65.0	2.56
50 (2)	IBB50-F-32G	2 BSPP	101.0	3.98	141.5	5.57	90.0	3.54
	IBB50-F-32N	2 NPTF	101.0	3.98	141.5	5.57	90.0	3.54

SEAL KITS

IBB04-F-SEAL KIT
 IBB06-F-SEAL KIT
 IBB10-F-SEAL KIT
 IBB12-F-SEAL KIT
 IBB19-F-SEAL KIT
 IBB25-F-SEAL KIT



IBB MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
04 (1/8)	IBB04-M-02G	1/8 BSPP	10.9	0.43	29.0	1.14	14.0	0.55
	IBB04-M-02N	1/8 NPTF	10.9	0.43	29.0	1.14	14.0	0.55
	IBB04-M-04S	7/16-20 UNF	10.9	0.43	29.0	1.14	14.0	0.55
06 (1/4)	IBB06-M-04G	1/4 BSPP	14.2	0.56	36.0	1.42	19.0	0.75
	IBB06-M-04N	1/4 NPTF	14.2	0.56	36.0	1.42	19.0	0.75
	IBB06-M-06S	9/16-18 UNF	14.2	0.56	36.0	1.42	19.0	0.75
10 (3/8)	IBB10-M-06G	3/8 BSPP	19.1	0.75	40.0	1.57	24.0	0.95
	IBB10-M-06N	3/8 NPTF	19.1	0.75	40.0	1.57	24.0	0.95
	IBB10-M-06S	9/16-18 UNF	19.1	0.75	40.0	1.57	24.0	0.95
	IBB10-M-08S	3/4-16 UN	19.1	0.75	44.0	1.73	24.0	0.95
12 (1/2)	IBB12-M-08G	1/2 BSPP	23.5	0.93	46.5	1.83	28.5	1.12
	IBB12-M-08N	1/2 NPTF	23.5	0.93	46.5	1.83	28.5	1.12
	IBB12-M-08S	3/4-16 UNF	23.5	0.93	46.5	1.83	28.5	1.12
	IBB12-M-10S	7/8-14 UNF	23.5	0.93	46.5	1.83	28.5	1.12
19 (3/4)	IBB19-M-12G	3/4 BSPP	31.4	1.24	56.0	2.20	36.0	1.42
	IBB19-M-12N	3/4 NPTF	31.4	1.24	56.0	2.20	36.0	1.42
	IBB19-M-12S	1 1/16-12 UN	31.4	1.24	56.0	2.20	36.0	1.42
25 (1)	IBB25-M-16G	1 BSPP	37.8	1.49	63.0	2.48	41.0	1.61
	IBB25-M-16N	1 NPTF	37.8	1.49	63.0	2.48	41.0	1.61
	IBB25-M-16S	1 5/16-12 UN	37.8	1.49	63.0	2.48	41.0	1.61
40 (1 1/2)	IBB40-M-20G	1 1/4 BSPP	44.5	1.75	122.0	4.80	65.0	2.56
	IBB40-M-20N	1 1/4 NPTF	44.5	1.75	122.0	4.80	65.0	2.56
	IBB40-M-24G	1 1/2 BSPP	44.5	1.75	122.0	4.80	65.0	2.56
	IBB40-M-24N	1 1/2 NPTF	44.5	1.75	122.0	4.80	65.0	2.56
50 (2)	IBB50-M-32G	2 BSPP	63.2	2.49	139.2	5.48	90.0	3.54
	IBB50-M-32N	2 NPTF	63.2	2.49	139.2	5.48	90.0	3.54

For all other configurations or thread types please contact the sales office.



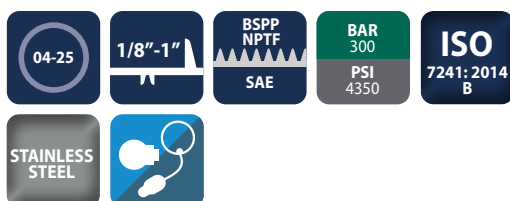
Stainless steel ISO B couplings made to the ISO 7241:2014 Series B Standard dimensions

IBS Series



INTRODUCTION

Holmbury's IBS Series stainless steel ISO B couplings incorporate all the benefits of the carbon steel IB Series couplings, whilst being perfectly suited for corrosive fluids and environments.



CONSTRUCTION

- AISI 316 stainless steel
- Fitted with FKM seals (Other seals available on request)
- Also available in brass (See IBB Series)
- Also available in carbon steel (See IB Series)

FEATURES

- Poppet valves have balanced springs
- Locking ball system allows for quick connection
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs, and seal kits are available for IBS Series

SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Corrosive fluids and environments
- Marine
- Offshore/onshore
- Chemical
- Pharmaceutical

PERFORMANCE CHARACTERISTICS

Body Size	IBS04	IBS06	IBS10	IBS12	IBS19	IBS25
	Pressure in bar - Flow in LPM					
	Pressure in PSI - Flow in GPM					
Maximum working pressure (Coupled)	300	300	250	250	250	200
	4351	4351	3626	3626	3626	2901
Burst pressure (Coupled)	900	900	750	750	750	600
	13053	13053	10878	10878	10878	8702
Burst pressure (Male)	1000	950	850	800	800	650
	14504	13779	12328	11603	11603	9427
Burst pressure (Female)	900	900	750	750	750	600
	13053	13053	10878	10878	10878	8702
Rated flow	3	12	23	45	106	189
	0.8	3.2	6	12	28	50

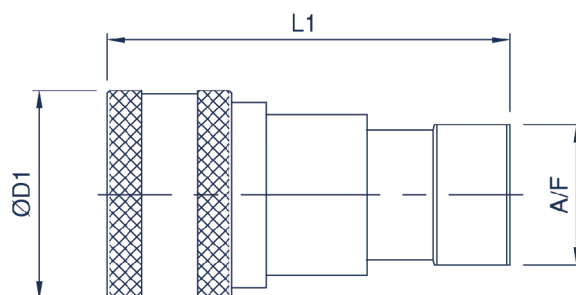
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
IB06-F-PLUG	IB06-M-CAP
IB10-F-PLUG	IB10-M-CAP
IB12-F-PLUG	IB12-M-CAP
IB19-F-PLUG	IB19-M-CAP
IB25-F-PLUG	IB25-M-CAP

Standard colour is red pvc, other colours available upon request

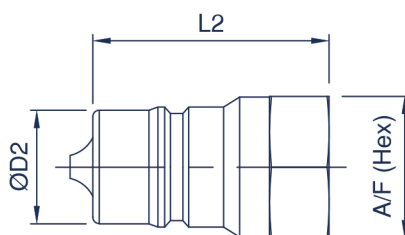
SEAL KITS

IBS04-F-SEAL KIT
IBS06-F-SEAL KIT
IBS10-F-SEAL KIT
IBS12-F-SEAL KIT
IBS19-F-SEAL KIT
IBS25-F-SEAL KIT



IBS FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
04 (1/8)	IBS04-F-02G	1/8 BSPP	24.0	0.94	50.0	1.97	17.0	0.67
	IBS04-F-02N	1/8 NPTF	24.0	0.94	50.0	1.97	17.0	0.67
06 (1/4)	IBS06-F-04G	1/4 BSPP	28.5	1.12	58.0	2.28	19.0	0.75
	IBS06-F-04N	1/4 NPTF	28.5	1.12	58.0	2.28	19.0	0.75
10 (3/8)	IBS10-F-06G	3/8 BSPP	35.0	1.38	65.0	2.56	24.0	0.94
	IBS10-F-06N	3/8 NPTF	35.0	1.38	65.0	2.56	24.0	0.94
12 (1/2)	IBS12-F-08G	1/2 BSPP	44.5	1.75	73.4	2.89	30.0	1.18
	IBS12-F-08N	1/2 NPTF	44.5	1.75	73.4	2.89	30.0	1.18
19 (3/4)	IBS19-F-12G	3/4 BSPP	54.0	2.13	92.0	3.62	36.0	1.42
	IBS19-F-12N	3/4 NPTF	54.0	2.13	92.0	3.62	36.0	1.42
25 (1)	IBS25-F-16G	1 BSPP	64.0	2.52	103.0	4.06	41.0	1.61
	IBS25-F-16N	1 NPTF	64.0	2.52	103.0	4.06	41.0	1.61



IBS MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
04 (1/8)	IBS04-M-02G	1/8 BSPP	10.8	0.43	31.0	1.22	14.0	0.55
	IBS04-M-02N	1/8 NPTF	10.8	0.43	31.0	1.22	14.0	0.55
06 (1/4)	IBS06-M-04G	1/4 BSPP	14.1	0.56	36.0	1.42	19.0	0.75
	IBS06-M-04N	1/4 NPTF	14.1	0.56	36.0	1.42	19.0	0.75
10 (3/8)	IBS10-M-06G	3/8 BSPP	19.0	0.75	40.0	1.57	24.0	0.94
	IBS10-M-06N	3/8 NPTF	19.0	0.75	40.0	1.57	24.0	0.94
12 (1/2)	IBS12-M-08G	1/2 BSPP	23.5	0.93	45.5	1.79	27.0	1.06
	IBS12-M-08N	1/2 NPTF	23.5	0.93	45.5	1.79	27.0	1.06
19 (3/4)	IBS19-M-12G	3/4 BSPP	31.4	1.24	56.0	2.20	36.0	1.42
	IBS19-M-12N	3/4 NPTF	31.4	1.24	56.0	2.20	36.0	1.42
25 (1)	IBS25-M-16G	1 BSPP	37.7	1.49	63.0	2.48	45.0	1.77
	IBS25-M-16N	1 NPTF	37.7	1.49	63.0	2.48	45.0	1.77

For all other configurations or thread types please contact the sales office.



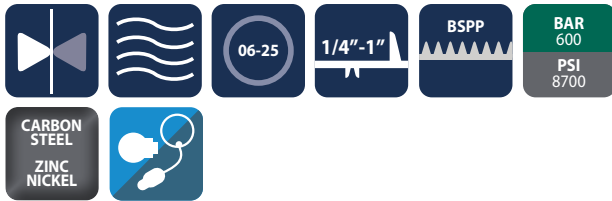
Connect under pressure high flow couplings fitted with a safety locking sleeve

F (Nordic) Series



INTRODUCTION

Holmbury's F Series 'Nordic interchange' high flow safety couplings offer three important benefits; high flow, connection under pressure and a safety locking mechanism to prevent accidental disconnection.



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals (Other seals available on request)
- Also available in stainless steel (see FS Series)

FEATURES

- High flow rates
- Optional pressure eliminator allows connection with residual pressure in the hydraulic circuit (Not applicable for size 06)
- Low pressure drop characteristics
- Safety locking ring to avoid accidental disconnection

- Female half has double 'O' ring sealing arrangement
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the F Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Mobile plant
- General industrial
- Forestry equipment

F (Nordic) PERFORMANCE CHARACTERISTICS

Body Size	F06	F10	F12	F19	F25
	Pressure in bar - Flow in LPM				
	Pressure in PSI - Flow in GPM				
Maximum working pressure (Coupled)	600 8702	350 5076	315 4569	300 4351	260 3771
Burst pressure (Coupled)	2100 30458	1500 21756	1300 18855	1250 18130	1100 15954
Burst pressure (Male)	2100 30458	1500 21756	1250 18130	1250 18130	1100 15954
Burst pressure (Female)	1500 21756	1450 21030	1200 17405	1200 17405	1000 14504
Rated flow	3 0.8	23 6.1	45 12	106 28	189 50

CAPS/PLUGS ACCESSORIES

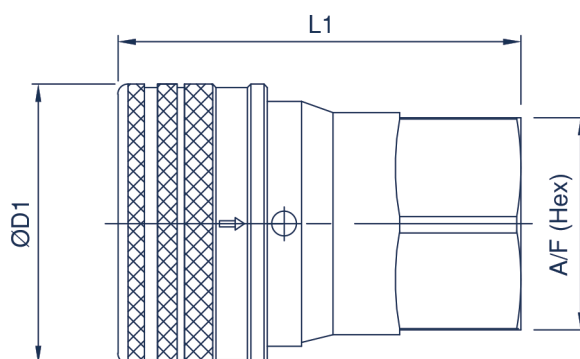
FEMALE PLUGS	MALE CAPS
F06-F-PLUG	F06-M-CAP
F10-F-PLUG	F10-M-CAP
F12-F-PLUG	F12-M-CAP
F19-F-PLUG	F19-M-CAP
F25-F-PLUG	F25-M-CAP

Standard colour is red pvc

SEAL KITS

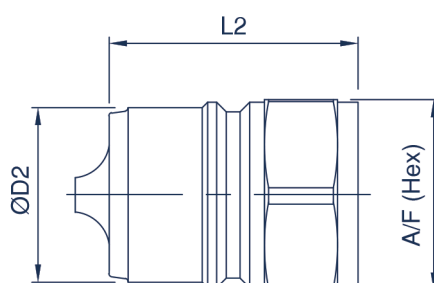
F06-F-SEAL KIT
F10-F-SEAL KIT
F12-F-SEAL KIT
F19-F-SEAL KIT
F25-F-SEAL KIT

F (Nordic) Series



F (Nordic) FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	F06-F-04G	1/4 BSPP	26.0	1.02	60.5	2.38	20.0	0.79
10 (3/8)	F10-F-06G	3/8 BSPP	34.0	1.38	60.0	2.36	24.0	0.94
	F10-F-06G-PE	3/8 BSPP	34.0	1.38	60.0	2.36	24.0	0.94
12 (1/2)	F12-F-08G	1/2 BSPP	40.0	1.75	65.1	2.56	30.0	1.18
	F12-F-08G-PE	1/2 BSPP	40.0	1.75	65.1	2.56	30.0	1.18
19 (3/4)	F19-F-12G	3/4 BSPP	52.0	2.13	74.5	2.93	38.0	1.50
	F19-F-12G-PE	3/4 BSPP	52.0	2.13	74.5	2.93	38.0	1.50
25 (1)	F25-F-16G	1 BSPP	62.0	2.52	88.5	3.48	45.0	1.77
	F25-F-16G-PE	1 BSPP	62.0	2.52	88.5	3.48	45.0	1.77



F (Nordic) MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	F06-M-04G	1/4 BSPP	11.9	0.47	49.0	1.93	19.0	0.75
10 (3/8)	F10-M-06G	3/8 BSPP	20.0	0.79	38.0	1.50	22.0	0.87
	F10-M-06G-PE	3/8 BSPP	20.0	0.79	38.0	1.50	22.0	0.87
12 (1/2)	F12-M-08G	1/2 BSPP	25.0	0.98	41.5	1.63	27.0	1.06
	F12-M-08G-PE	1/2 BSPP	25.0	0.98	41.5	1.63	27.0	1.06
19 (3/4)	F19-M-12G	3/4 BSPP	33.0	1.30	46.5	1.83	36.0	1.42
	F19-M-12G-PE	3/4 BSPP	33.0	1.30	46.5	1.83	36.0	1.42
25 (1)	F25-M-16G	1 BSPP	41.0	1.61	54.5	2.15	46.0	1.81
	F25-M-16G-PE	1 BSPP	41.0	1.61	54.5	2.15	46.0	1.81

For all other configurations or thread types please contact the sales office.



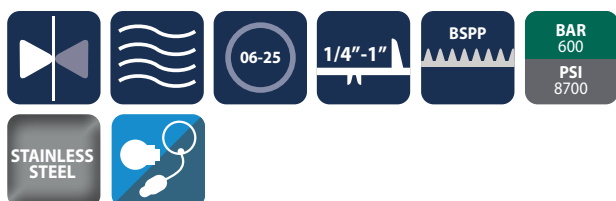
Connect under pressure high flow couplings fitted with a safety locking sleeve

FS Series



INTRODUCTION

Holmbury's FS Series 'Nordic interchange' high flow safety couplings offer three important benefits; high flow, connection under pressure and a safety locking mechanism to prevent accidental disconnection.



CONSTRUCTION

- AISI 316 stainless steel
- Fitted with FKM seals (Other seals available on request)
- Also available in carbon steel (see F Series)

FEATURES

- High flow rates
- Optional pressure eliminator allows connection with residual pressure in the hydraulic circuit (Not applicable for size 06)
- Low pressure drop characteristics
- Safety locking ring to avoid accidental disconnection

- Female half has double 'O' ring sealing arrangement
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available

SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Mobile plant
- General industrial
- Forestry equipment
- Marine

FS PERFORMANCE CHARACTERISTICS

Body Size	FS10	FS12	FS19	FS25
	Pressure in bar - Flow in LPM			
	Pressure in PSI - Flow in GPM			
Maximum working pressure (Coupled)	350 5076	315 4569	300 4351	260 3771
Burst pressure (Coupled)	1500 21756	1300 18855	1250 18130	1100 15954
Burst pressure (Male)	1500 21756	1250 18130	1250 18130	1100 15954
Burst pressure (Female)	1450 21030	1200 17405	1200 17405	1000 14504
Rated flow	23 6.1	45 12	106 28	189 50

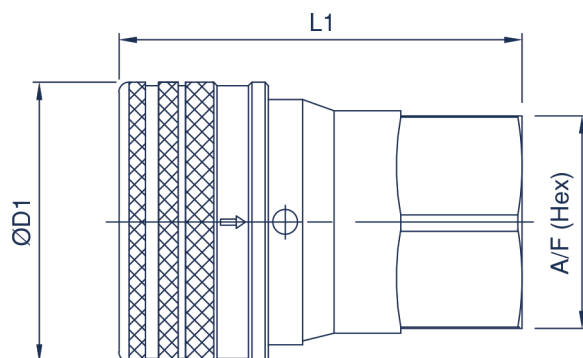
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
F10-F-PLUG	F10-M-CAP
F12-F-PLUG	F12-M-CAP
F19-F-PLUG	F19-M-CAP
F25-F-PLUG	F25-M-CAP

Standard colour is red pvc

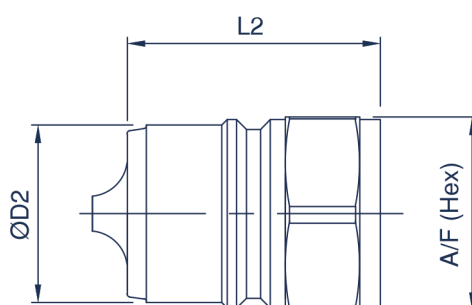
SEAL KITS

FS10-F-SEAL KIT
FS12-F-SEAL KIT
FS19-F-SEAL KIT
FS25-F-SEAL KIT



FS FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	FS10-F-06G	3/8 BSPP	34.0	1.38	60.0	2.36	24.0	0.94
	FS10-F-06G-PE	3/8 BSPP	34.0	1.38	60.0	2.36	24.0	0.94
12 (1/2)	FS12-F-08G	1/2 BSPP	40.0	1.75	65.1	2.56	30.0	1.18
	FS12-F-08G-PE	1/2 BSPP	40.0	1.75	65.1	2.56	30.0	1.18
19 (3/4)	FS19-F-12G	3/4 BSPP	52.0	2.13	74.5	2.93	38.0	1.50
	FS19-F-12G-PE	3/4 BSPP	52.0	2.13	74.5	2.93	38.0	1.50
25 (1)	FS25-F-16G	1 BSPP	62.0	2.52	88.5	3.48	45.0	1.77
	FS25-F-16G-PE	1 BSPP	62.0	2.52	88.5	3.48	45.0	1.77



FS MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	FS10-M-06G	3/8 BSPP	20.0	0.79	38.0	1.50	22.0	0.87
	FS10-M-06G-PE	3/8 BSPP	20.0	0.79	38.0	1.50	22.0	0.87
12 (1/2)	FS12-M-08G	1/2 BSPP	25.0	0.98	41.5	1.63	27.0	1.06
	FS12-M-08G-PE	1/2 BSPP	25.0	0.98	41.5	1.63	27.0	1.06
19 (3/4)	FS19-M-12G	3/4 BSPP	33.0	1.30	46.5	1.83	36.0	1.42
	FS19-M-12G-PE	3/4 BSPP	33.0	1.30	46.5	1.83	36.0	1.42
25 (1)	FS25-M-16G	1 BSPP	41.0	1.61	54.5	2.15	46.0	1.81
	FS25-M-16G-PE	1 BSPP	41.0	1.61	54.5	2.15	46.0	1.81

For all other configurations or thread types please contact the sales office.



Poppet style couplings with a guided poppet

HTN Series



INTRODUCTION

Holmbury's HTN Series poppet style couplings are a reliable and efficient option for use across a wide range of hydraulic applications.



CONSTRUCTION

- Carbon steel with trivalent plating
- Also available in brass (HTNB), FKM seals
- Also available in AISI 316 stainless steel (HTNS), FKM seals
- Fitted with NBR seals

FEATURES

- Poppet style minimises pressure drop and creates an effective seal whilst allowing high flow rates
- Elongated nose and poppet design allows for simple connection and disconnection
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the HTN Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- General hydraulic systems
- Machine tools
- Test equipment
- Agricultural
- Mobile hydraulics

HTN PERFORMANCE CHARACTERISTICS

Body Size	HTN06	HTN10	HTN12	HTN19	HTN25	HTN32	HTN40	HTN50
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure (Coupled)	450 6527	350 5076	300 4351	250 3626	200 2901	150 2176	130 1885	100 1450
Burst pressure (Coupled)	1350 19580	1050 15229	900 13053	750 10878	600 8702	450 6527	390 5656	300 4351
Burst pressure (Male)	1350 19580	1050 15229	900 13053	750 10878	600 8702	450 6527	390 5656	300 4351
Burst pressure (Female)	1250 18130	950 13779	800 11603	650 9427	500 7252	350 5076	290 4206	200 2901
Rated flow	3 0.8	23 6.1	45 12	106 28	189 50	288 76	379 100	757 200

Contact sales for HTNB & HTNS performance characteristics

CAPS/PLUGS ACCESSORIES

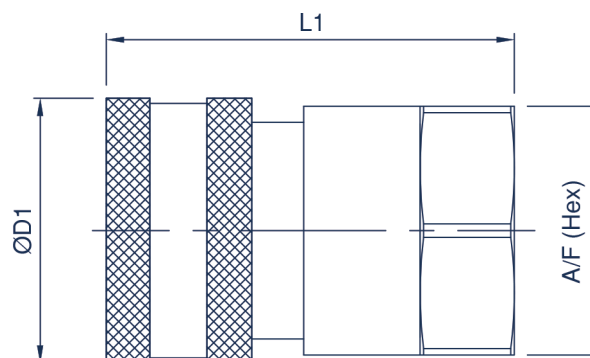
FEMALE PLUGS	MALE CAPS
HTN06-F-PLUG	HTN06-M-CAP
HTN10-F-PLUG	HTN10-M-CAP
HTN12-F-PLUG	HTN12-M-CAP
HTN19-F-PLUG	HTN19-M-CAP
HTN25-F-PLUG	HTN25-M-CAP

Standard colour is black pvc

SEAL KITS

HTN06-F-SEAL KIT
HTN10-F-SEAL KIT
HTN12-F-SEAL KIT
HTN19-F-SEAL KIT
HTN25-F-SEAL KIT
HTN32-F-SEAL KIT
HTN40-F-SEAL KIT
HTN50-F-SEAL KIT

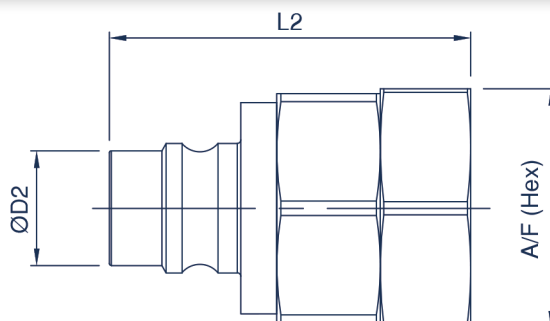
HTN FEMALE COUPLING



Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	HTN06-F-04G	1/4 BSPP	24.0	0.94	44.0	1.73	22.0	0.87
	HTN06-F-04N	1/4 NPTF	24.0	0.94	44.0	1.73	22.0	0.87
10 (3/8)	HTN10-F-06G	3/8 BSPP	27.0	1.06	49.4	1.94	26.0	1.02
	HTN10-F-06N	3/8 NPTF	27.0	1.06	49.4	1.94	26.0	1.02
12 (1/2)	HTN12-F-08G	1/2 BSPP	34.0	1.34	53.5	2.11	30.0	1.18
	HTN12-F-08N	1/2 NPTF	34.0	1.34	53.5	2.11	30.0	1.18
19 (3/4)	HTN19-F-12G	3/4 BSPP	42.0	1.65	63.0	2.48	38.0	1.50
	HTN19-F-12N	3/4 NPTF	42.0	1.65	63.0	2.48	38.0	1.50
25 (1)	HTN25-F-16G	1 BSPP	50.5	1.99	68.3	2.69	48.0	1.89
	HTN25-F-16N	1 NPTF	50.5	1.99	68.3	2.69	48.0	1.89
32 (1 1/4)	HTN32-F-20G	1 1/4 BSPP	56.0	2.20	91.0	3.58	50.0	1.97
	HTN32-F-20N	1 1/4 NPTF	56.0	2.20	91.0	3.58	50.0	1.97
40 (1 1/2)	HTN40-F-24G	1 1/2 BSPP	70.0	2.76	90.0	3.54	64.0	2.52
	HTN40-F-24N	1 1/2 NPTF	70.0	2.76	90.0	3.54	64.0	2.52
50 (2)	HTN50-F-32G	2 BSPP	90.0	3.54	105.0	4.13	89.0	3.50
	HTN50-F-32N	2 NPTF	90.0	3.54	105.0	4.13	89.0	3.50

Note: a valveless version is available upon request (add VL to part number).

For all other configurations or thread types please contact the sales office.



HTN MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	HTN06-M-04G	1/4 BSPP	10.9	0.43	41.3	1.63	22.0	0.87
	HTN06-M-04N	1/4 NPTF	10.9	0.43	41.3	1.63	22.0	0.87
10 (3/8)	HTN10-M-06G	3/8 BSPP	12.9	0.51	47.0	1.85	26.0	1.02
	HTN10-M-06N	3/8 NPTF	12.9	0.51	47.0	1.85	26.0	1.02
12 (1/2)	HTN12-M-08G	1/2 BSPP	15.9	0.63	51.0	2.01	30.0	1.18
	HTN12-M-08N	1/2 NPTF	15.9	0.63	51.0	2.01	30.0	1.18
19 (3/4)	HTN19-M-12G	3/4 BSPP	23.4	0.92	62.0	2.44	38.0	1.50
	HTN19-M-12N	3/4 NPTF	23.4	0.92	62.0	2.44	38.0	1.50
25 (1)	HTN25-M-16G	1 BSPP	29.7	1.17	66.8	2.63	48.0	1.89
	HTN25-M-16N	1 NPTF	29.7	1.17	66.8	2.63	48.0	1.89
32 (1 1/4)	HTN32-M-20G	1 1/4 BSPP	36.1	1.42	88.0	3.46	50.0	1.97
	HTN32-M-20N	1 1/4 NPTF	36.1	1.42	88.0	3.46	50.0	1.97
40 (1 1/2)	HTN40-M-24G	1 1/2 BSPP	43.3	1.70	85.6	3.37	64.0	2.52
	HTN40-M-24N	1 1/2 NPTF	43.3	1.70	85.6	3.37	64.0	2.52
50 (2)	HTN50-M-32G	2 BSPP	56.7	2.23	99.0	3.90	89.0	3.50
	HTN50-M-32N	2 NPTF	56.7	2.23	99.0	3.90	89.0	3.50



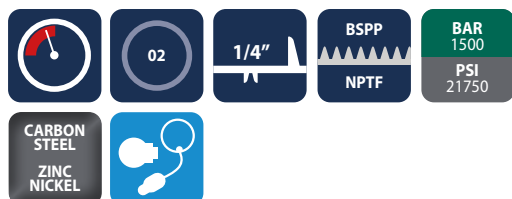
High pressure poppet valve couplings

KM 115, 116 Series



INTRODUCTION

Holmbury's KM 115 Series high pressure poppet valve couplings are primarily used in bolt tensioners and other high pressure applications. The KM 116 can withstand a higher maximum working pressure than the KM 115.



CONSTRUCTION

- KM 115 - Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- KM 116 - Carbon steel with black zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Available in size 02 body with 1/4" NPTF or BSPP threads
- Fitted with NBR seals

FEATURES

- 1000 bar maximum working pressure (KM 115)
1500 bar maximum working pressure (KM 116)
- Poppet valve design
- Locking ball system allows quick connection
- Bidirectional flow



ACCESSORIES

- Dust caps and plugs are available for the KM Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Bolt tensioners
- Hydraulic jacks
- Other high pressure applications

KM 115, 116 PERFORMANCE CHARACTERISTICS

Series Variant	KM115	KM116
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM	
Maximum working pressure (Coupled)	1000 14500	1500 21750
Burst pressure (Coupled)	2500 36250	3000 43500
Burst pressure (Male)	2500 36250	3000 43500
Burst pressure (Female)	2400 34800	2900 42050
Rated flow	6 1.6	5.3 1.4

CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
KM02-F-PLUG	KM02-M-CAP

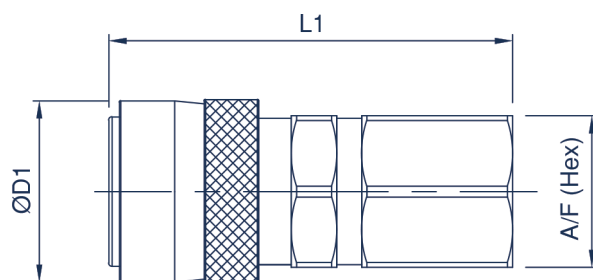
Standard colour is red pvc, other colours available upon request



WARNING

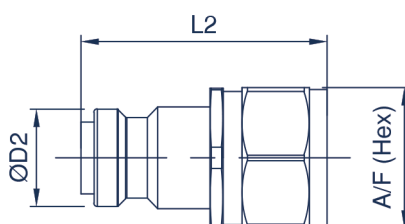
Hydraulic couplings operating at high pressures pose a significant risk to personal safety. Please refer to our Safety Guidelines for more information.

KM 115, 116 Series



KM 115, 116 FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
02 (1/4)	KM02-F-04G-115	1/4 BSPP	27.8	1.09	61.5	2.42	23.8	0.94
	KM02-F-04N-115	1/4 NPTF	27.8	1.09	61.5	2.42	23.8	0.94
	KM02-F-04G-116	1/4 BSPP	27.8	1.09	61.5	2.42	23.8	0.94
	KM02-F-04N-116	1/4 NPTF	27.8	1.09	61.5	2.42	23.8	0.94



KM 115, 116 MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
02 (1/4)	KM02-M-04G-115	1/4 BSPP	14.8	0.58	38.1	1.50	21.8	0.86
	KM02-M-04N-115	1/4 NPTF	14.8	0.58	38.1	1.50	21.8	0.86
	KM02-M-04G-116	1/4 BSPP	14.8	0.58	38.1	1.50	21.8	0.86
	KM02-M-04N-116	1/4 NPTF	14.8	0.58	38.1	1.50	21.8	0.86

For all other configurations or thread types please contact the sales office.



AGRICULTURAL COUPLINGS

Agricultural couplings are used for a range of hydraulic applications including braking systems on tractors. The female coupling is normally panel mounted on the tractor.





Agricultural range of couplings for panel mounting and multiple applications.



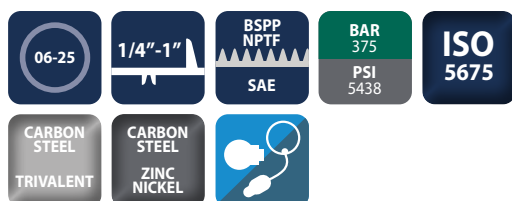
Poppet seal couplings made to the ISO 5675 Standard*

DINV, DNVZ Series



INTRODUCTION

Holmbury's DINV Series couplings are designed with a poppet valve for quick connection and disconnection. They are interchangeable with the ISO A couplings in 1/2" size.



CONSTRUCTION

- Carbon steel with trivalent plating, also available in zinc nickel
- Fitted with NBR seals
- Also available in ball valve design (See DINB Series)

FEATURES

- Poppet valves have balanced springs
- Locking ball system allows quick connection
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the DINV Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Agricultural
- Mobile
- Construction
- General hydraulics

DINV, DNVZ PERFORMANCE CHARACTERISTICS

Body Size	DINV06	DINV10	DINV12	DINV19	DINV25
	Pressure in bar - Flow in LPM				
	Pressure in PSI - Flow in GPM				
Maximum working pressure (Coupled)	375 5437	350 5075	320 4640	300 4350	275 3987
Burst pressure (Coupled)	1600 23200	1450 21025	1300 18850	1200 17400	1100 15950
Burst pressure (Male)	1600 23200	1300 18850	1500 21750	1100 15950	1000 14500
Burst pressure (Female)	1600 23200	1300 18850	1400 20300	1100 15950	1000 14500
Rated flow	3 0.8	23 6.1	45 12	106 28	189 50

* 1/2 Only.

CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
DIN06-F-PLUG	DIN06-M-CAP
DIN10-F-PLUG	DIN10-M-CAP
DIN12-F-PLUG	DIN12-M-CAP
DIN19-F-PLUG	DIN19-M-CAP
DIN25-F-PLUG	DIN25-M-CAP

Standard colour is red pvc, other colours available upon request

SEAL KITS

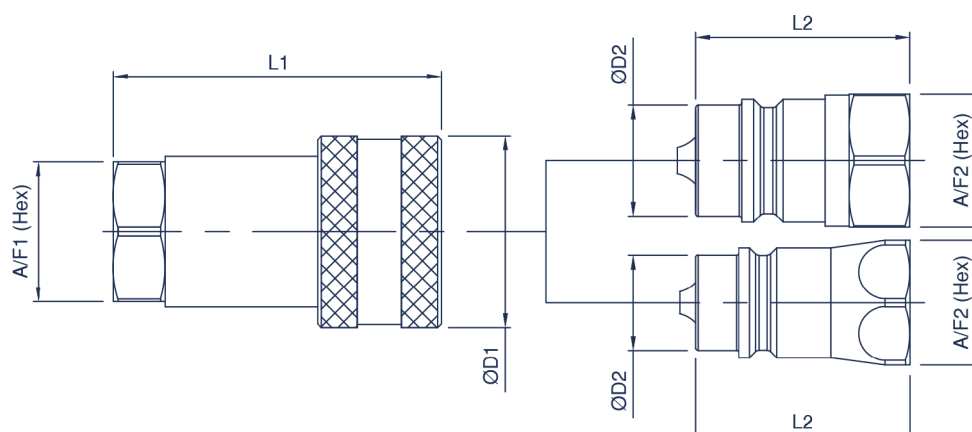
DIN06-F-SEAL KIT
DIN10-F-SEAL KIT
DIN12-F-SEAL KIT
DIN19-F-SEAL KIT
DIN25-F-SEAL KIT

DINV, DNVZ Series

DINV, DNVZ FEMALE COUPLING

Body Size	Part Number	Thread Size	A/F1		L1		D1	
			mm	inch	mm	inch	mm	inch
06 (1/4)	DINV06-F-04G	1/4 BSPP	22.2	0.87	55.5	2.19	27.6	1.09
	DINV06-F-04N	1/4 NPTF	22.2	0.87	55.5	2.19	27.6	1.09
	DINV06-F-06S	9/16-18 UNF	22.2	0.87	55.5	2.19	27.6	1.09
10 (3/8)	DINV10-F-06G	3/8 BSPP	24.0	0.94	60.5	2.38	34.0	1.34
	DINV10-F-06N	3/8 NPTF	24.0	0.94	60.5	2.38	34.0	1.34
	DINV10-F-06S	9/16-18 UNF	24.0	0.94	60.5	2.38	34.0	1.34
12 (1/2)	DINV12-F-08G	1/2 BSPP	27.0	1.06	68.0	2.68	38.0	1.50
	DINV12-F-08N	1/2 NPTF	27.0	1.06	68.0	2.68	38.0	1.50
	DINV12-F-08S	3/4-16 UNF	27.0	1.06	68.0	2.68	38.0	1.50
	DINV12-F-10S	7/8-14 UNF	27.0	1.06	68.0	2.68	38.0	1.50
19** (3/4)	DINV19-F-12G	3/4 BSPP	34.0	1.34	82.5	3.25	48.2	1.90
	DINV19-F-12N	3/4 NPTF	35.0	1.38	83.0	3.27	47.5	1.87
	DINV19-F-12S	1 1/16-12 UN	35.0	1.38	83.0	3.27	47.5	1.87
25 (1)	DINV25-F-16G	1 BSPP	41.0	1.61	97.5	3.84	56.2	2.21
	DINV25-F-16N	1 NPTF	41.0	1.61	97.5	3.84	56.2	2.21
	DINV25-F-16S	1 5/16-12 UN	41.0	1.61	97.5	3.84	56.2	2.21

**Size 19 differs in USA and UK, neither meet ISO 5675 dimensional requirements.
For all other configurations or thread types please contact the sales office.



DINV, DNVZ MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F2	
			mm	inch	mm	inch	mm	inch
06 (1/4)	DINV06-M-04G	1/4 BSPP	14.2	0.56	36.0	1.42	19.0	0.75
	DINV06-M-04N	1/4 NPTF	14.2	0.56	36.0	1.42	19.0	0.75
	DINV06-M-06S	9/16-18 UNF	14.2	0.56	36.0	1.42	19.0	0.75
10 (3/8)	DINV10-M-06G	3/8 BSPP	19.0	0.75	40.0	1.57	24.0	0.94
	DINV10-M-06N	3/8 NPTF	19.0	0.75	40.0	1.57	24.0	0.94
	DINV10-M-06S	9/16-18 UNF	19.0	0.75	40.0	1.57	24.0	0.94
12* (1/2)	DINV12-M-08G	1/2 BSPP	20.5	0.81	46.0	1.81	27.0	1.06
	DINV12-M-08N	1/2 NPTF	20.5	0.81	46.0	1.81	27.0	1.06
	DINV12-M-08S	3/4-16 UNF	20.5	0.81	46.0	1.81	27.0	1.06
	DINV12-M-10S	7/8-14 UNF	20.5	0.81	46.0	1.81	27.0	1.06
19** (3/4)	DINV19-M-12G	3/4 BSPP	28.0	1.10	53.5	2.11	34.0	1.34
	DINV19-M-12N	3/4 NPTF	26.9	1.06	51.0	2.01	33.3	1.31
	DINV19-M-12S	1 1/16-12 UN	26.9	1.06	51.0	2.01	33.3	1.31
25 (1)	DINV25-M-16G	1 BSPP	31.3	1.23	64.0	2.52	41.0	1.61
	DINV25-M-16N	1 NPTF	31.3	1.23	64.0	2.52	41.0	1.61
	DINV25-M-16S	1 5/16-12 UN	31.3	1.23	64.0	2.52	41.0	1.61

*Size 12 outside profile of male is different in USA and incorporates an internal shield.

**Size 19 differs in USA and UK, neither meet ISO 5675 dimensional requirements.



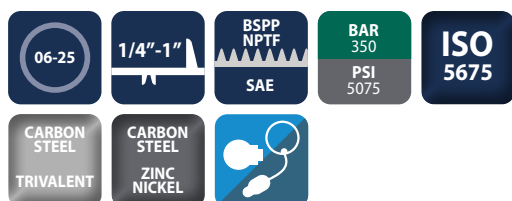
Poppet seal couplings made to the ISO 5675 Standard*

DINB, DNBZ Series



INTRODUCTION

Holmbury's DINB Series couplings are designed with a ball valve for quick connection and disconnection. They are interchangeable with the ISO A couplings in sizes 1/2" and 3/4".



CONSTRUCTION

- Carbon steel with trivalent plating, also available in zinc nickel
- Fitted with NBR seals
- Also available in poppet valve design (See DINV Series)

FEATURES

- Ball valves have balanced springs
- Locking ball system allows quick connection
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the DINB Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Agricultural
- Mobile
- Construction
- General hydraulics

DINB, DNBZ PERFORMANCE CHARACTERISTICS

Body Size	DINB06	DINB10	DINB12	DINB19	DINB25
	Pressure in bar - Flow in LPM				
	Pressure in PSI - Flow in GPM				
Maximum working pressure (Coupled)	350 5075	300 4350	275 3987	275 3987	250 3625
Burst pressure (Coupled)	1550 22475	1400 20300	1250 18125	1150 16675	1050 15225
Burst pressure (Male)	1550 22475	1250 18125	1200 17400	1050 15225	950 13775
Burst pressure (Female)	1550 22475	1250 18125	1200 17400	1050 15225	950 13775
Rated flow	3 0.8	23 6.1	45 12	106 28	189 50

* 1/2 Only.

CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
DIN06-F-PLUG	DIN06-M-CAP
DIN10-F-PLUG	DIN10-M-CAP
DIN12-F-PLUG	DIN12-M-CAP
DIN19-F-PLUG	DIN19-M-CAP
DIN25-F-PLUG	DIN25-M-CAP

Standard colour is red pvc, other colours available upon request

SEAL KITS

DIN06-F-SEAL KIT
DIN10-F-SEAL KIT
DIN12-F-SEAL KIT
DIN19-F-SEAL KIT
DIN25-F-SEAL KIT

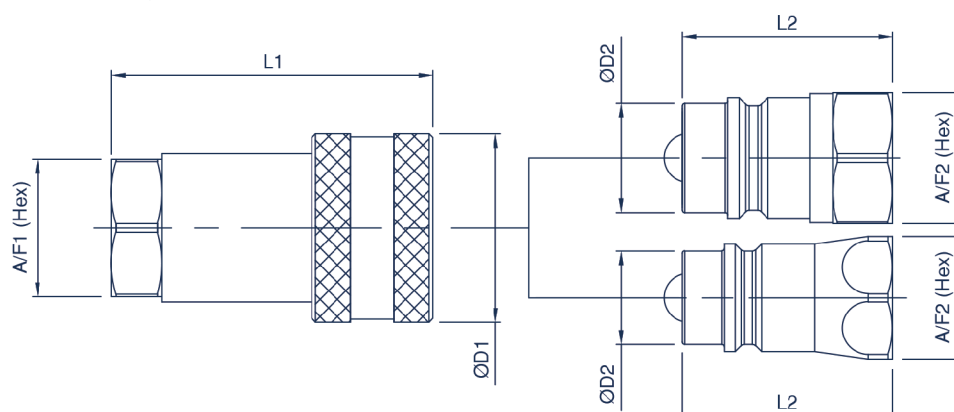
DINB, DNBZ Series

DINB, DNBZ FEMALE COUPLING

Body Size	Part Number	Thread Size	A/F1		L1		D1	
			mm	inch	mm	inch	mm	inch
06 (1/4)	DINB06-F-04G	1/4 BSPP	19.0	0.75	53.5	2.11	27.6	1.09
	DINB06-F-04N	1/4 NPTF	19.0	0.75	53.5	2.11	27.6	1.09
	DINB06-F-06S	9/16-18 UNF	19.0	0.75	53.5	2.11	27.6	1.09
10 (3/8)	DINB10-F-06G	3/8 BSPP	24.0	0.94	63.0	2.48	34.0	1.34
	DINB10-F-06N	3/8 NPTF	24.0	0.94	63.0	2.48	34.0	1.34
	DINB10-F-06S	9/16-18 UNF	24.0	0.94	63.0	2.48	34.0	1.34
12 (1/2)	DINB12-F-08G	1/2 BSPP	27.0	1.06	66.3	2.61	38.6	1.52
	DINB12-F-08N	1/2 NPTF	27.0	1.06	66.3	2.61	38.6	1.52
	DINB12-F-08S	3/4-16 UNF	27.0	1.06	66.3	2.61	38.6	1.52
	DINB12-F-10S	7/8-14 UNF	27.0	1.06	66.3	2.61	38.6	1.52
19** (3/4)	DINB19-F-12G	3/4 BSPP	34.0	1.34	82.5	3.25	48.2	1.90
	DINB19-F-12N	3/4 NPTF	35.0	1.38	83.5	3.29	47.5	1.87
	DINB19-F-12S	1 1/16-12 UN	35.0	1.38	83.5	3.29	47.5	1.87
25 (1)	DINB25-F-16G	1 BSPP	41.0	1.61	96.5	3.80	56.0	2.20
	DINB25-F-16N	1 NPTF	41.0	1.61	96.5	3.80	56.0	2.20
	DINB25-F-16S	1 5/16-12 UN	41.0	1.61	96.5	3.80	56.0	2.20

**Size 19 differs in USA and UK, neither meet ISO 5675 dimensional requirements.

For all other configurations or thread types please contact the sales office.



DINB, DNBZ MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F2	
			mm	inch	mm	inch	mm	inch
06 (1/4)	DINB06-M-04G	1/4 BSPP	14.1	0.56	36.0	1.42	19.0	0.75
	DINB06-M-04N	1/4 NPTF	14.1	0.56	36.0	1.42	19.0	0.75
	DINB06-M-06S	9/16-18 UNF	14.1	0.56	36.0	1.42	19.0	0.75
10 (3/8)	DINB10-M-06G	3/8 BSPP	18.9	0.74	40.0	1.57	24.0	0.94
	DINB10-M-06N	3/8 NPTF	18.9	0.74	40.0	1.57	24.0	0.94
	DINB10-M-06S	9/16-18 UNF	18.9	0.74	40.0	1.57	24.0	0.94
12* (1/2)	DINB12-M-08G	1/2 BSPP	20.5	0.81	43.5	1.71	27.0	1.06
	DINB12-M-08N	1/2 NPTF	20.5	0.81	46.0	1.81	27.0	1.06
	DINB12-M-08S	3/4-16 UNF	20.5	0.81	46.0	1.81	27.0	1.06
	DINB12-M-10S	7/8-14 UNF	20.5	0.81	46.0	1.81	27.0	1.06
19** (3/4)	DINB19-M-12G	3/4 BSPP	28.0	1.10	53.5	2.11	34.0	1.34
	DINB19-M-12N	3/4 NPTF	26.9	1.06	51.0	2.01	33.3	1.31
	DINB19-M-12S	1 1/16-12 UN	26.9	1.06	51.0	2.01	33.3	1.31
25 (1)	DINB25-M-16G	1 BSPP	31.3	1.23	63.0	2.48	41.0	1.61
	DINB25-M-16N	1 NPTF	31.3	1.23	63.0	2.48	41.0	1.61
	DINB25-M-16S	1 5/16-12 UN	31.3	1.23	63.0	2.48	41.0	1.61

*Size 12 outside profile of male is different in USA and incorporates an internal shield.

**Size 19 differs in USA and UK, neither meet ISO 5675 dimensional requirements.



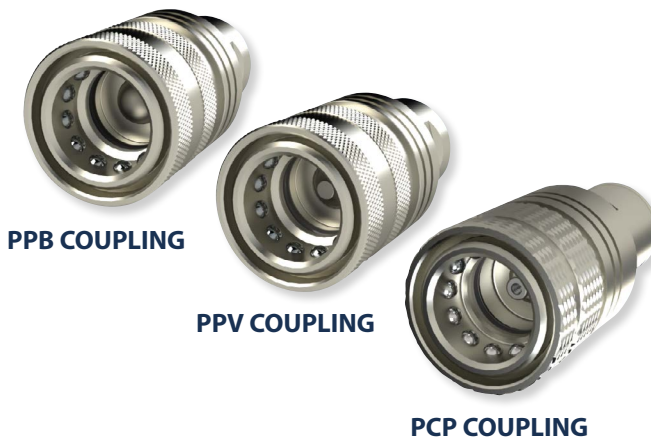
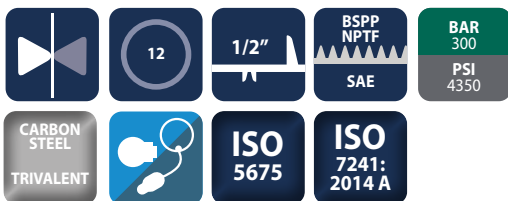
DIN 5675 push / pull female couplings to suit P clamp (Interchangeable with 1/2" ISO 7241 Series A and DIN Series male probes)

PPB, PPV, PCP Series



INTRODUCTION

Holmbury's PPB, PPV & PCP Series DIN/ ISO A female couplings are designed primarily for the agricultural industry and incorporate a push / pull design. The couplings are suitable for use with the Holmbury P-Clamp.



CONSTRUCTION

- Carbon steel with trivalent plating, also available in zinc nickel
- Fitted with NBR seals

FEATURES

- Can be connected with standard DIN/ISO A 1/2" male couplings
- Release mechanism protects coupling and hose from damage in event of accidental separating force
- Locking ball system allows quick connection
- Bidirectional flow
- PCP series incorporates universal poppet with connect under pressure capability

ACCESSORIES

- Dust plugs are available
- P-Clamp

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Agricultural
- Mobile
- Construction
- General hydraulics

PERFORMANCE CHARACTERISTICS

Body Size	PPB12	PPV12	PCP12
	Pressure in bar - Flow in LPM		
	Pressure in PSI - Flow in GPM		
Maximum working pressure (Coupled)	350	350	350
	5000	5000	5000
Burst pressure (Coupled)	2200	2200	1600
	31900	31900	23200
Burst pressure (Female)	1400	1400	1400
	20300	20300	20300
Rated flow	45	45	45
	12	12	12

PLUGS ACCESSORIES

FEMALE PLUGS

IA12-F-PLUG

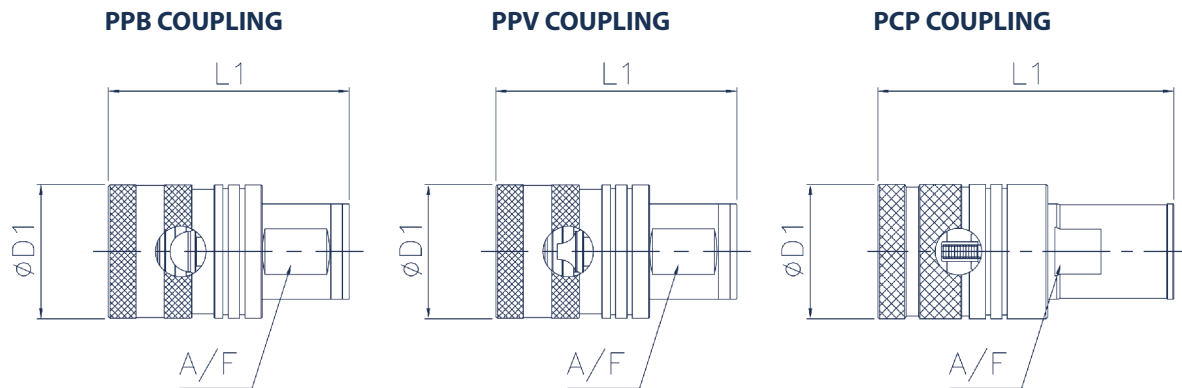
Standard colour is red pvc, other colours available upon request

P-CLAMP ACCESSORIES

P-CLAMP

PP12-CLAMP

PPB, PPV, PCP Series



PPB, PPV, PCP COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	PPB12-F-08N	1/2 NPTF	38.1	1.50	68.1	2.68	23.7	0.93
12 (1/2)	PPB12-F-08S	3/4-16 UNF	38.1	1.50	68.1	2.68	23.7	0.93
12 (1/2)	PPV12-F-08N	1/2 NPTF	38.1	1.50	68.1	2.68	23.7	0.93
12 (1/2)	PPV12-F-08S	3/4-16 UNF	38.1	1.50	68.1	2.68	23.7	0.93
12 (1/2)	PCP12-F-08N	1/2 NPTF	38.1	1.50	83.7	3.30	22.1	0.87
12 (1/2)	PCP12-F-08S	3/4-16 UNF	38.1	1.50	83.7	3.30	22.1	0.87
12 (1/2)	PCP12-F-10S	7/8-14 UNF	38.1	1.50	83.7	3.30	22.1	0.87

INDUSTRY INTERCHANGE

Holmbury	Safeway	Parker
PPB12-F-08N	S45-4	4250-4
PPB12-F-08S	S45-15	4250-15
PPV12-F-08N	S45-4P	4250-4P
PPV12-F-08S	S45-15P	4250-15P
PCP12-F-08N	S75-4	8250-4
PCP12-F-08S	S75-15	8250-15
PCP12-F-10S	S75-16	8250-16





Agricultural Coupling Clamp

P-Clamp Series



INTRODUCTION

Holmbury's double break-away clamp allows single-handed connection of compatible quick couplings.



CONSTRUCTION

- Carbon steel mounting plate with zinc plating
- Die cast zinc body

FEATURES

- Allows single handed connection
- Implements breakaway
- Multi-purpose, suitable for use with Holmbury PPB, PPV, PCP Series

APPLICATIONS

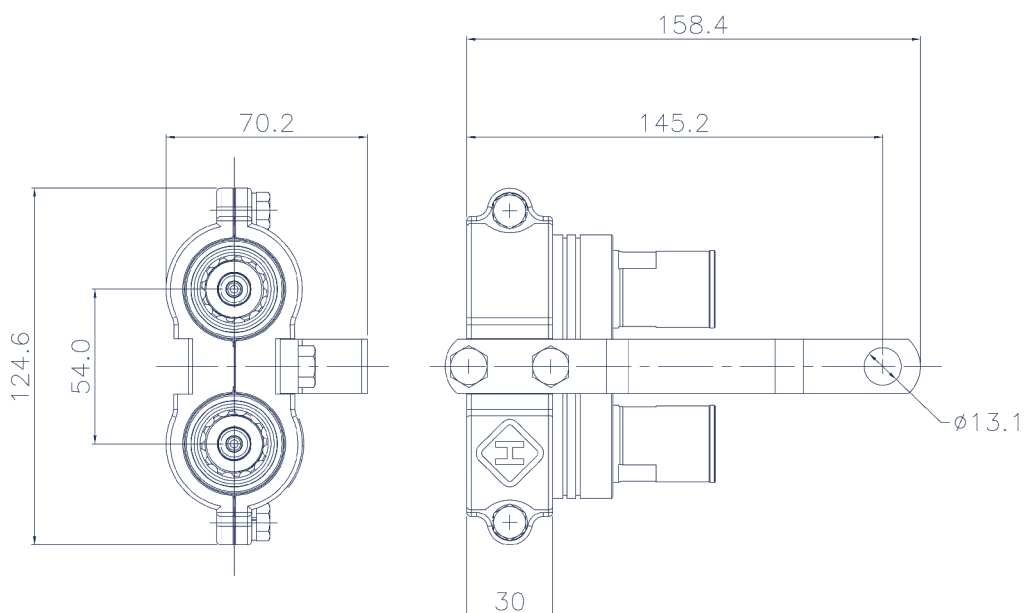
- Agricultural



* Clamp is not supplied with couplings

INDUSTRY INTERCHANGE

Holmbury	Safeway	Parker
PP12-CLAMP	S42-4	5006-4







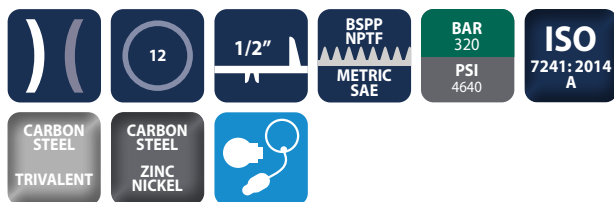
ISO A push/pull female couplings (Connects with 1/2" ISO A male probes)

P Series



INTRODUCTION

Holmbury's P Series ISO A female couplings are designed primarily for the agricultural industry and incorporate a push/pull design. The coupling is panel mounted using circlip grooves on the locking sleeve.



CONSTRUCTION

- Carbon steel with trivalent plating, zinc nickel standard in UK
- Fitted with NBR seals
- Connect under pressure version also available (See IAPC Series)

FEATURES

- Can be connected with standard ISO A 1/2" male couplings
- Release mechanism protects coupling and hose from damage in event of accidental separating force
- Locking ball system allows quick connection
- Bidirectional flow



ACCESSORIES

- Dust plugs are available for the P Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Agricultural
- Mobile
- Construction
- General hydraulics

P PERFORMANCE CHARACTERISTICS

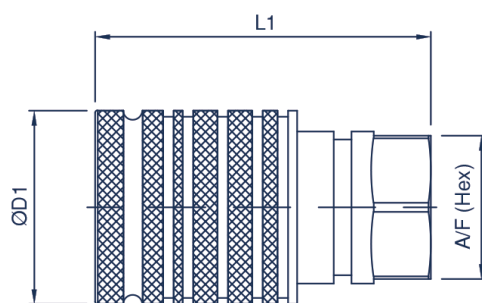
Body Size	P12	P12B
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM	
Maximum working pressure (Coupled)	320	275
	4640	3987
Burst pressure (Coupled)	1500	1250
	21750	18125
Burst pressure (Female)	1400	1200
	20300	17400
Rated flow	45	45
	12	12

PLUGS ACCESSORIES

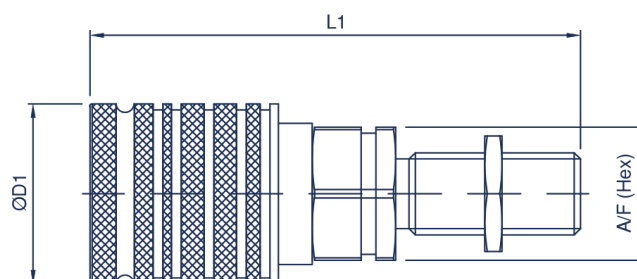
FEMALE PLUGS

IA12-F-PLUG

Standard colour is red pvc, other colours available upon request



BULKHEAD VERSION



P FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	P12-F-06G	3/8 BSPP	38.1	1.50	66.0	2.60	27.0	1.06
	P12-F-06S	9/16-18 UNF	38.1	1.50	66.0	2.60	27.0	1.06
	P12-F-08G	1/2 BSPP	38.1	1.50	66.0	2.60	27.0	1.06
	P12-F-08N	1/2 NPTF	38.1	1.50	66.0	2.60	27.0	1.06
	P12-F-08N-B	1/2 NPTF	38.1	1.50	66.0	2.60	27.0	1.06
	P12-F-08S	3/4-16 UNF	38.1	1.50	66.0	2.60	27.0	1.06
	P12-F-M18X1.5M-10S	M18X1.5	38.1	1.50	73.5	2.89	27.0	1.06
	P12-F-M18X1.5M-12L	M18X1.5	38.1	1.50	73.5	2.89	27.0	1.06
	P12-F-M18X1.5M-BH-12L	M18X1.5	38.1	1.50	87.0	3.43	27.0	1.06
	P12-F-M18X1.5	M18X1.5	38.1	1.50	66.0	2.60	27.0	1.06
	P12-F-M20X1.5M-12S	M20X1.5	38.1	1.50	73.5	2.89	27.0	1.06
	P12-F-M20X1.5M-BH-12S	M20X1.5	38.1	1.50	87.0	3.43	27.0	1.06
	P12-F-M22X1.5	M22X1.5	38.1	1.50	66.0	2.60	27.0	1.06
	P12-F-M22X1.5M-BH-14S	M22X1.5	38.1	1.50	89.0	3.50	27.0	1.06
	P12-F-M22X1.5M-15L	M22X1.5	38.1	1.50	75.5	2.97	27.0	1.06
	P12-F-M22X1.5M-BH-15L	M22X1.5	38.1	1.50	89.0	3.50	27.0	1.06
	P12-F-M26X1.5M-BH-18L	M26X1.5	38.1	1.50	89.0	3.50	27.0	1.06
	P12-F-M30X2-20S	M30X2	38.1	1.50	77.5	3.05	27.0	1.06

For all other configurations or thread types please contact the sales office.
For dust protection use IA12-F-PLUG



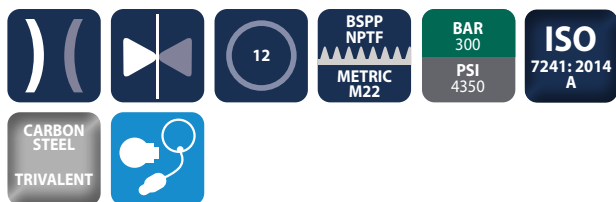
Connect under pressure female couplings (Connects to 1/2" ISO A male probes)

IAP Series



INTRODUCTION

Holmbury's IAP Series ISO A female couplings are designed primarily for the agricultural industry and incorporate a push/pull design with connect under pressure feature. The coupling can be either panel mounted using circlip grooves or manifold mounted.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals
- Available with either a short or long body

FEATURES

- Can be connected with residual pressure in the line (male side only)
- Can be connected with standard ISO A 1/2" male couplings (Made to the ISO 7241:2014 Series A Standard)
- Release mechanism protects coupling and hose from damage in event of accidental separating force
- Locking ball system allows quick connection
- Bidirectional flow



ACCESSORIES

- Dust plugs are available for the IAP Series

SPECIFICATIONS

- Operating temperatures (with NBR seals):
-40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Agricultural
- Mobile
- Construction
- General hydraulics

*Please specify whether you require short or long body when ordering

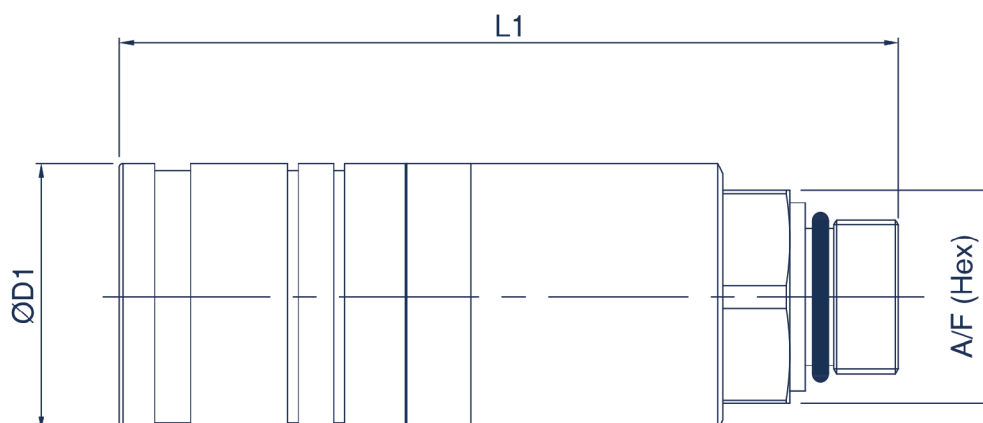
IAP PERFORMANCE CHARACTERISTICS

Body Size	IAP12
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure (Coupled)	300 4350
Burst pressure (Coupled)	1000 14500
Burst pressure (Female)	1000 14500
Rated flow	45 12

PLUGS ACCESSORIES

FEMALE PLUGS IA12-F-PLUG

Standard colour is red pvc, other colours available upon request



IAP FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	IAP12-F-08G	1/2 BSPP	38.0	1.50	107.0	4.21	27.0	1.06
	IAP12-F-08N	1/2 NPTF	38.0	1.50	107.0	4.21	27.0	1.06
	IAP12-F-M22X1.5M	M22X1.5	38.0	1.50	99.0	3.90	32.0	1.26
	IAP12-F-M22X1.5M-L	M22X1.5	38.0	1.50	111.0	4.37	32.0	1.26

For all other configurations or thread types please contact the sales office.



Connect under pressure ISO A couplings made to the ISO 7241:2014 Series A standard

IAPC Series



INTRODUCTION

Holmbury's IAPC Series ISO A couplings incorporate a pressure relief mechanism that enable them to be connected under pressure by hand.



CONSTRUCTION

- Female half available in either a 'Pull Break' or 'Push Pull' design (See drawing for differentiation)
- Carbon steel with trivalent plating
- Fitted with NBR seals

FEATURES

- Connects with up to 250 bar (3675 psi) residual pressure (If both male and female are IAPC couplings)
- Poppet valves have balanced springs
- Locking ball system allows quick connection
- Bidirectional flow



ACCESSORIES

- Dust caps and plugs are available for the IAPC Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Agricultural
- Mobile
- Construction
- General hydraulics

IAPC PERFORMANCE CHARACTERISTICS

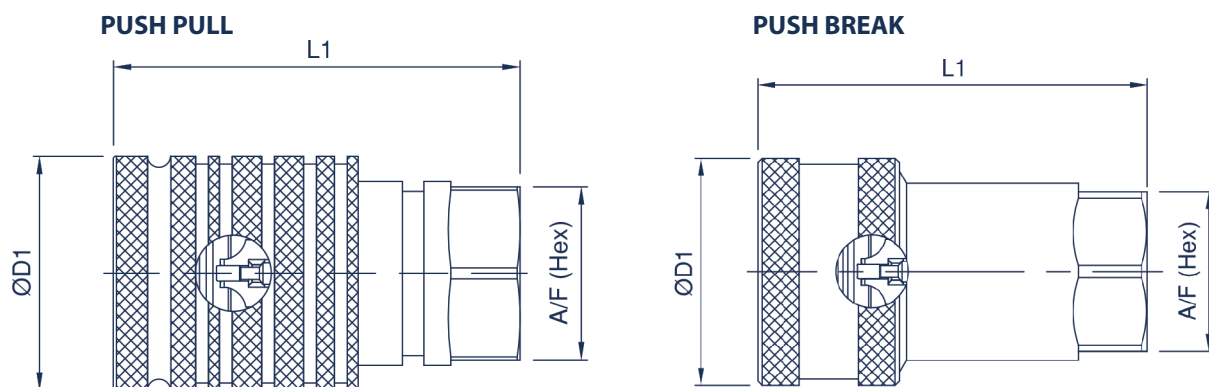
Body Size	IAPC12 (PP)	IAPC12 (PB)
	Pressure in bar - Flow in LPM	
	Pressure in PSI - Flow in GPM	
Maximum working pressure (Coupled)	320	320
	4640	4640
Burst pressure (Coupled)	1500	1500
	21750	21750
Burst pressure (Male)	1500	1500
	21750	21750
Burst pressure (Female)	1400	1400
	20300	20300
Rated flow	45	45
	12	12

CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
IA12-F-PLUG	IA12-M-CAP

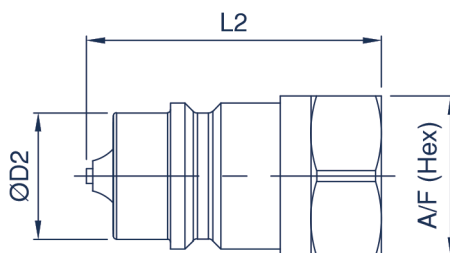
Standard colour is red pvc, other colours available upon request

For IAPC performance characteristics see IA12-M (page 44).



IAPC FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	IAPC12-F-08G	1/2 BSPP	38.0	1.50	66.5	2.62	27.0	1.06
	IAPC12-F-08N	1/2 NPTF	38.0	1.50	66.5	2.62	27.0	1.06
	IAPC12-F-08S	3/4-16 UNF	38.0	1.50	66.5	2.62	27.0	1.06



IAPC MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	IAPC12-M-08G	1/2 BSPP	20.52	0.81	43.5	1.71	27.0	1.06
	IAPC12-M-08N	1/2 NPTF	20.52	0.81	43.5	1.71	27.0	1.06
	IAPC12-M-08S	3/4-16 UNF	20.52	0.81	43.5	1.71	27.0	1.06

For all other configurations or thread types please contact the sales office.



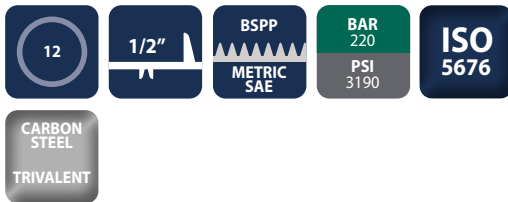
Trailer brake couplings made to the ISO 5676 Standard

TB Series



INTRODUCTION

Holmbury's TB Series trailer brake couplings are used to connect the hydraulic braking system of tractors to trailers. The male coupling is normally panel mounted on the tractor.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals

FEATURES

- Male couplings can be panel mounted
- Female couplings are supplied with parking station
- Bidirectional flow

ACCESSORIES

- Not applicable

SPECIFICATIONS

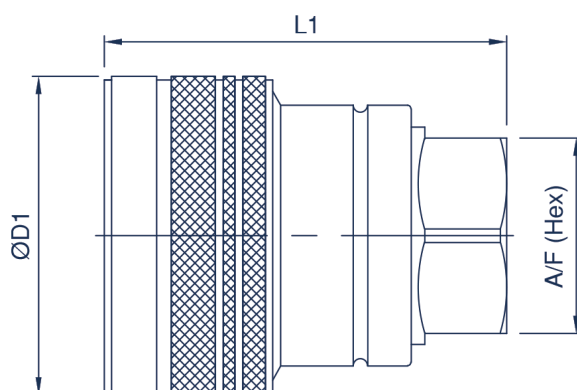
- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Trailer connections
- Hydraulic brake systems

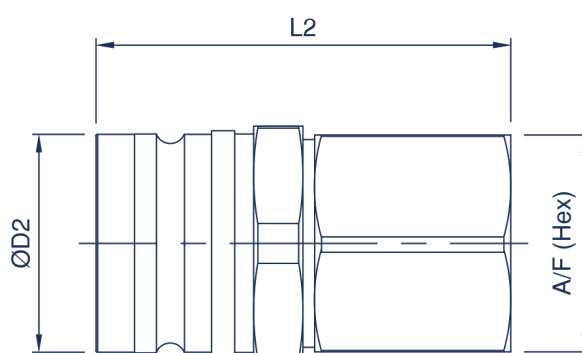
TB PERFORMANCE CHARACTERISTICS

Series Variant	TB12
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure (Coupled)	220
	3190
Burst pressure (Coupled)	900
	13050
Burst pressure (Male)	1110
	16095
Burst pressure (Female)	900
	13050
Rated flow	45
	12



TB FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	TB12-F-06G	3/8 BSPP	44.0	1.73	55.5	2.19	27.0	1.06
	TB12-F-08G	1/2 BSPP	44.0	1.73	55.5	2.19	27.0	1.06
	TB12-F-M16x1.5	M16x1.5	44.0	1.73	55.5	2.19	27.0	1.06
	TB12-F-M20x1.5	M20x1.5	44.0	1.73	55.5	2.19	27.0	1.06
	TB12-F-M22X1.5M-BH-15L	M22X1.5	44.0	1.73	83.5	2.30	27.0	1.06



TB MALE COUPLING

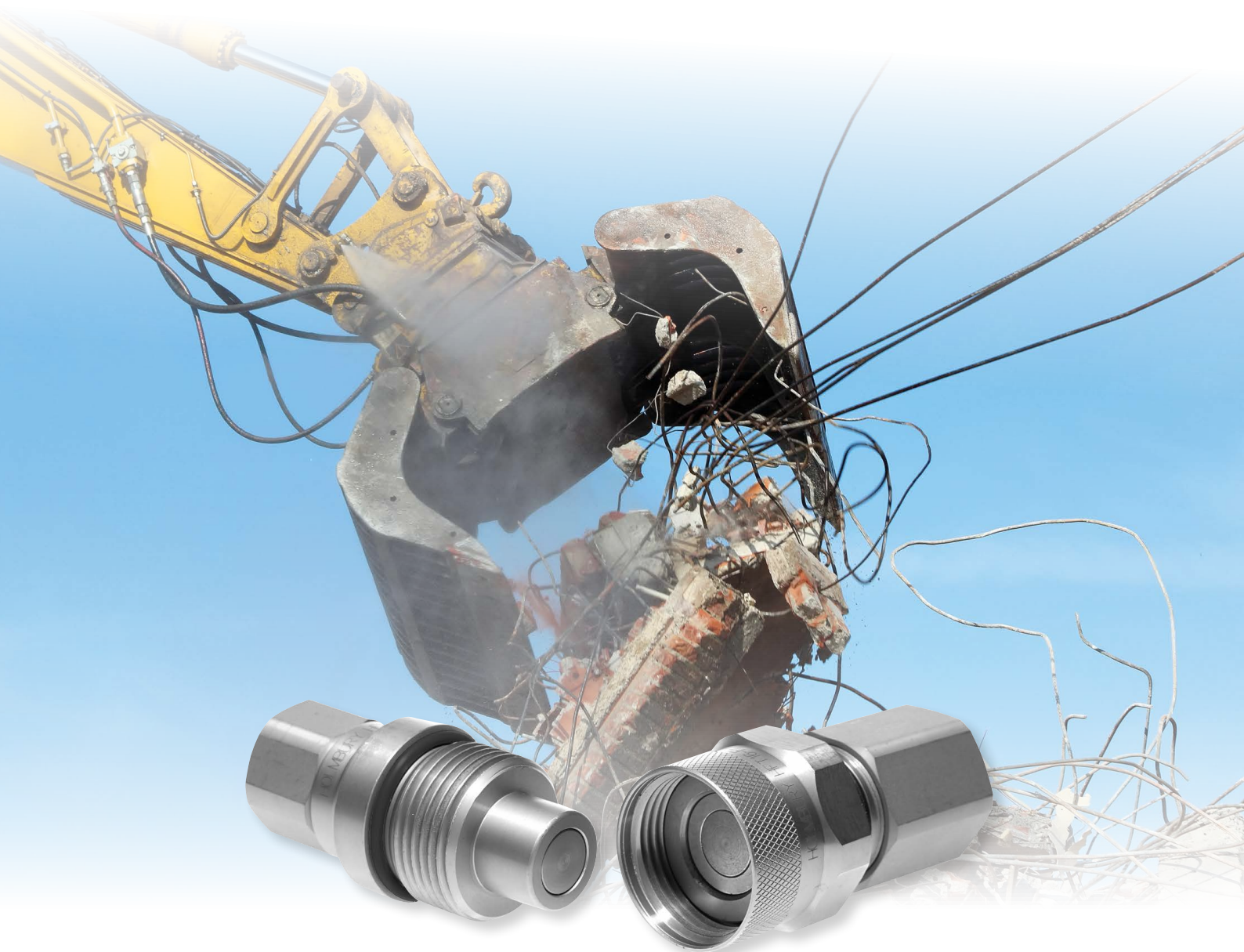
Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
12 (1/2)	TB12-M-06G	3/8 BSPP	29.0	0.81	55.5	2.19	30.0	1.18
	TB12-M-08G	1/2 BSPP	29.0	0.81	55.5	2.19	30.0	1.18
	TB12-M-08GM	1/2 BSPP	29.0	0.81	48.0	1.89	30.0	1.18
	TB12-M-08GM-BHX36	1/2 BSPP	29.0	0.81	58.5	2.30	30.0	1.18
	TB12-M-08SM	3/4-16 UNF	29.0	0.81	48.0	1.89	30.0	1.18
	TB12-M-M18x1.5M-BH-12L	M18X1.5	29.0	0.81	58.5	2.30	30.0	1.18
	TB12-M-M20x1.5M-BH-12S	M20x1.5	29.0	0.81	58.5	2.30	30.0	1.18
	TB12-M-M22x1.5M-BH-15L	M22X1.5	29.0	0.81	60.5	2.30	30.0	1.18

For all other configurations or thread types please contact the sales office.



SCREW TO CONNECT COUPLINGS

Screw to connect couplings are the game changers when it comes to dealing with high pressure pulsing applications, elimination of brinelling and connecting/disconnecting with residual pressure present in systems.







Screw to connect flat face couplings

HFT Series



INTRODUCTION

Holmbury's HFT Series flat faced screw to connect couplings provide a stronger connection and eliminate brinelling. An ideal solution for high pressure pulses and demanding applications.



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals

FEATURES

- Screw to connect design eliminates brinelling
- Flat faces are easily wiped clean
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the HFT Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Hydraulic attachments
- Hammer circuits
- High pressure pulse applications
- Leak free environments
- Construction plant, mobile equipment, general industrial, mining and agricultural industries

Contact Holmbury for special requests on thread types/sizes not listed.

HFT PERFORMANCE CHARACTERISTICS

Body Size	HFT10	HFT12	HFT16	HFT19	HFT25	HFT32
	Pressure in bar - Flow in LPM					
	Pressure in PSI - Flow in GPM					
Maximum working pressure (Coupled)	550 7975	550 7975	550 7975	500 7250	470 6815	400 5800
Burst pressure (Coupled)	1400 20300	1400 20300	1400 20300	1400 20300	1300 18850	1100 15950
Burst pressure (Male)	1400 20300	1400 20300	1400 20300	1400 20300	1300 18850	1100 15950
Burst pressure (Female)	1100 15950	1000 14500	1000 14500	1050 15225	1000 14500	800 11600
Rated flow	23 6.1	45 12	74 20	100 26.4	189 50	250 66

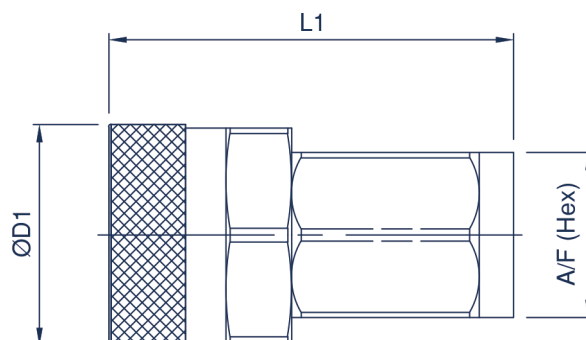
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
HFT10-F-PLUG	HFT10-M-CAP
HFT12-F-PLUG	HFT12-M-CAP
HFT16-F-PLUG	HFT16-M-CAP
HFT19-F-PLUG	HFT19-M-CAP
HFT25-F-PLUG	HFT25-M-CAP
HFT32-F-PLUG	HFT32-M-CAP

Standard material is natural, anodized aluminium

SEAL KITS

HFT10-SEAL KIT
HFT12-SEAL KIT
HFT16-SEAL KIT
HFT19-SEAL KIT
HFT25-SEAL KIT
HFT32-SEAL KIT



HFT FEMALE COUPLING

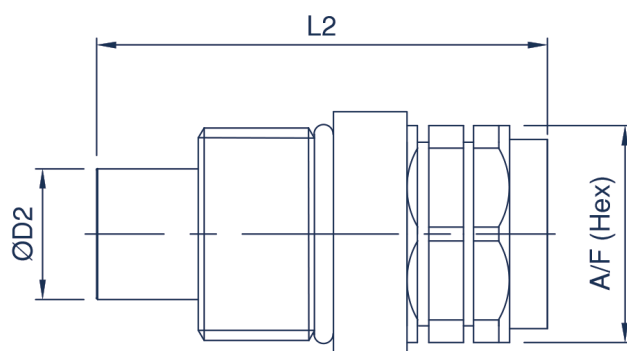
Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	HFT10-F-06G	3/8 BSPP	38.0	1.50	71.0	2.80	30.0	1.18
	HFT10-F-06N	3/8 NPTF	38.0	1.50	71.0	2.80	30.0	1.18
	HFT10-F-08G	1/2 BSPP	38.0	1.50	71.0	2.80	30.0	1.18
	HFT10-F-08N	1/2 NPTF	38.0	1.50	71.0	2.80	30.0	1.18
	HFT10-F-08S	3/4-16 UNF	38.0	1.50	71.0	2.80	30.0	1.18
12 (1/2)	HFT12-F-08G	1/2 BSPP	46.0	1.81	78.0	3.07	36.0	1.42
	HFT12-F-08N	1/2 NPTF	46.0	1.81	78.0	3.07	36.0	1.42
	HFT12-F-08S	3/4-16 UNF	46.0	1.81	78.0	3.07	36.0	1.42
	HFT12-F-12G	3/4 BSPP	46.0	1.81	78.0	3.07	36.0	1.42
	HFT12-F-12N	3/4 NPTF	46.0	1.81	78.0	3.07	36.0	1.42
	HFT12-F-12S	1 1/16-12 UN	46.0	1.81	78.0	3.07	36.0	1.42
16 (5/8)	HFT16-F-12G	3/4 BSPP	50.0	1.97	85.0	3.35	41.0	1.61
	HFT16-F-12N	3/4 NPTF	50.0	1.97	85.0	3.35	41.0	1.61
	HFT16-F-12S	1 1/16-12 UN	50.0	1.97	85.0	3.35	41.0	1.61
19 (3/4)	HFT19-F-12G	3/4 BSPP	55.0	2.17	100.0	3.94	46.0	1.81
	HFT19-F-12N	3/4 NPTF	55.0	2.17	100.0	3.94	46.0	1.81
	HFT19-F-16G	1 BSPP	55.0	2.17	100.0	3.94	46.0	1.81
	HFT19-F-16N	1 NPTF	55.0	2.17	100.0	3.94	46.0	1.81
	HFT19-F-16S	1 5/16-12 UN	55.0	2.17	100.0	3.94	46.0	1.81
25 (1)	HFT25-F-20G	1 1/4 BSPP	65.0	2.56	111.5	4.39	55.0	2.17
	HFT25-F-20N	1 1/4 NPTF	65.0	2.56	111.5	4.39	55.0	2.17
	HFT25-F-20S	1 5/8-12 UN	65.0	2.56	111.5	4.39	55.0	2.17
25 (1)	HFT32-F-24G	1 1/2 BSPP	90.0	3.55	144.0	5.67	65.0	2.56
	HFT32-F-24N	1 1/2 NPTF	90.0	3.55	144.0	5.67	65.0	2.56
	HFT32-F-24S	1 7/8-12 UN	90.0	3.55	144.0	5.67	65.0	2.56

For all other configurations or thread types please contact the sales office.

FEMALE Coupling CONTINUED OVERLEAF



Screw to connect flat face couplings



HFT MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	HFT10-M-06G	3/8 BSPP	19.7	0.78	85.0	3.35	27.0	1.06
	HFT10-M-06N	3/8 NPTF	19.7	0.78	85.0	3.35	27.0	1.06
	HFT10-M-08G	1/2 BSPP	19.7	0.78	85.0	3.35	27.0	1.06
	HFT10-M-08N	1/2 NPTF	19.7	0.78	85.0	3.35	27.0	1.06
	HFT10-M-08S	3/4-16 UNF	19.7	0.78	85.0	3.35	27.0	1.06
12 (1/2)	HFT12-M-08G	1/2 BSPP	24.5	0.97	95.0	3.74	36.0	1.42
	HFT12-M-08N	1/2 NPTF	24.5	0.97	95.0	3.74	36.0	1.42
	HFT12-M-08S	3/4-16 UNF	24.5	0.97	95.0	3.74	36.0	1.42
	HFT12-M-12G	3/4 BSPP	24.5	0.97	95.0	3.74	36.0	1.42
	HFT12-M-12N	3/4 NPTF	24.5	0.97	95.0	3.74	36.0	1.42
	HFT12-M-12S	1 1/16-12 UN	24.5	0.97	95.0	3.74	36.0	1.42
16 (5/8)	HFT16-M-12G	3/4 BSPP	27.0	1.06	99.0	3.90	36.0	1.42
	HFT16-M-12N	3/4 NPTF	27.0	1.06	99.0	3.90	36.0	1.42
	HFT16-M-12S	1 1/16-12 UN	27.0	1.06	99.0	3.90	36.0	1.42
19 (3/4)	HFT19-M-12G	3/4 BSPP	29.9	1.18	114.0	4.49	46.0	1.81
	HFT19-M-12N	3/4 NPTF	29.9	1.18	114.0	4.49	46.0	1.81
	HFT19-M-16G	1 BSPP	29.9	1.18	114.0	4.49	46.0	1.81
	HFT19-M-16N	1 NPTF	29.9	1.18	114.0	4.49	46.0	1.81
	HFT19-M-16S	1 5/16-12 UN	29.9	1.18	114.0	4.49	46.0	1.81
25 (1)	HFT25-M-20G	1 1/4 BSPP	36.0	1.42	123.5	4.86	55.0	2.17
	HFT25-M-20N	1 1/4 NPTF	36.0	1.42	123.5	4.86	55.0	2.17
	HFT25-M-20S	1 5/8-12 UN	36.0	1.42	123.5	4.86	55.0	2.17
25 (1)	HFT32-M-24G	1 1/2 BSPP	57.0	2.24	150.0	5.91	65.0	2.56
	HFT32-M-24N	1 1/2 NPTF	57.0	2.24	150.0	5.91	65.0	2.56
	HFT32-M-24S	1 7/8-12 UN	57.0	2.24	150.0	5.91	65.0	2.56

For all other configurations or thread types please contact the sales office.

INSTALLATION INSTRUCTIONS FOR FSC/HFT SERIES



WARNING! Incorrect installation prior to use risks serious injury to persons and damage to the couplers or equipment.

The following procedures **MUST** be adhered to:

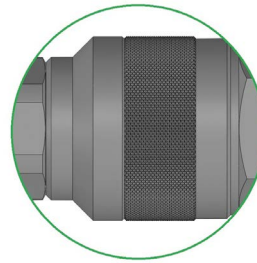
LOCKING PIN NOT USED

1. Thread the rotating outer sleeve onto the male thread until hand tight.
2. Use a suitable wrench to tighten the outer sleeve further until metal-to-metal contact is made and the O-ring is completely covered.

**PARTIALLY
CONNECTED
INCORRECT**



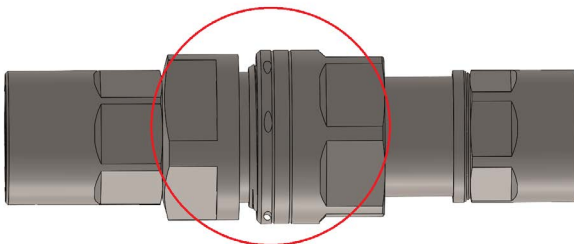
**FULLY
CONNECTED
CORRECT**



LOCKING PIN USED

1. Thread the rotating outer sleeve onto the male thread until hand tight.
2. Use a suitable wrench to tighten the outer sleeve further until metal-to-metal contact is made.
3. Locate and secure the Locking Pin thru the holes in the female outer sleeve.

Ensure O-Ring is removed before assembly



The connection should be checked before, during and after use to ensure full and proper connection is always maintained.

Any damage caused to the seals by incorrect installation will void the manufacturer's warranty.

***This warning is directly, but not exclusively, applicable to Holmbury FSC/HFT Series.**

Recommended Torque Settings can be found at:
<https://www.holmbury.com/resources/recommended-torque-settings/>



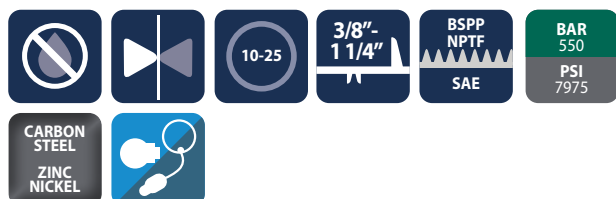
Screw to connect heavy duty couplings

FSC Series



INTRODUCTION

Holmbury's FSC Series flat faced screw to connect couplings offer a compact, rugged connection to eliminate brinelling. An ideal solution for high pressure pulses and demanding applications.



PLEASE NOTE Holmbury FSC range can be interchanged with other brands - use the QR code opposite for further information



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals, Polyurethane and PTFE backup ring
- Other seal options available on request

FEATURES

- Screw to connect design eliminates brinelling
- Integral connect under pressure feature
- Flat faces are easily wiped clean
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow
- Locking Pin option available on sizes 19 and 25

ACCESSORIES

- Dust caps, plugs and replacement locking pins are available for the FSC Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -30°C (-22°F) to 100°C (212°F)

APPLICATIONS

- Hydraulic attachments
- Hammer circuits
- High pressure pulse applications
- Leak free environments
- Construction plant, mobile equipment, general industrial, mining and agricultural industries
- Agricultural

FSC PERFORMANCE CHARACTERISTICS

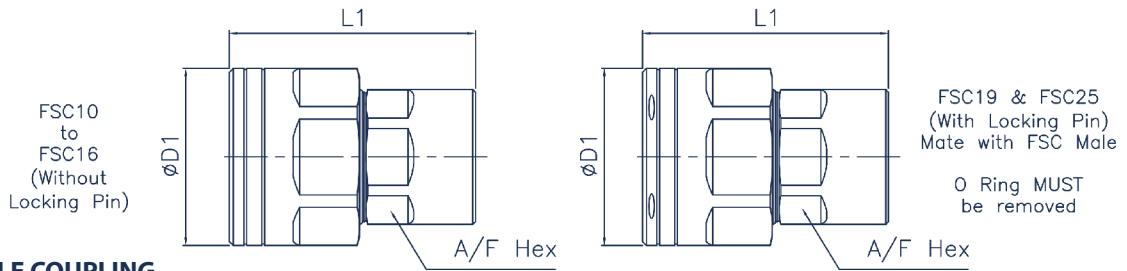
Body Size	FSC10	FSC12	FSC16	FSC16	FSC25
	Pressure in bar - Flow in LPM				
	Pressure in PSI - Flow in GPM				
Maximum working pressure (Coupled)	550	550	550	500	470
	7975	7975	7975	7250	6815
Burst pressure (Coupled)	1400	1400	1400	1400	1300
	20300	20300	20300	20300	18850
Burst pressure (Male)	1400	1400	1400	1400	1300
	20300	20300	20300	20300	18850
Burst pressure (Female)	1100	1000	1000	1050	1000
	15950	14500	14500	15225	14500
Rated flow	23	45	74	100	189
	6.1	12	20	26.4	50

CAPS/PLUGS/PINS ACCESSORIES

FEMALE PLUGS	MALE CAPS
HFT10-F-PLUG	HFT10-M-CAP
HFT12-F-PLUG	HFT12-M-CAP
HFT16-F-PLUG	HFT16-M-CAP
HFT19-F-PLUG	HFT19-M-CAP
HFT25-F-PLUG	HFT25-M-CAP

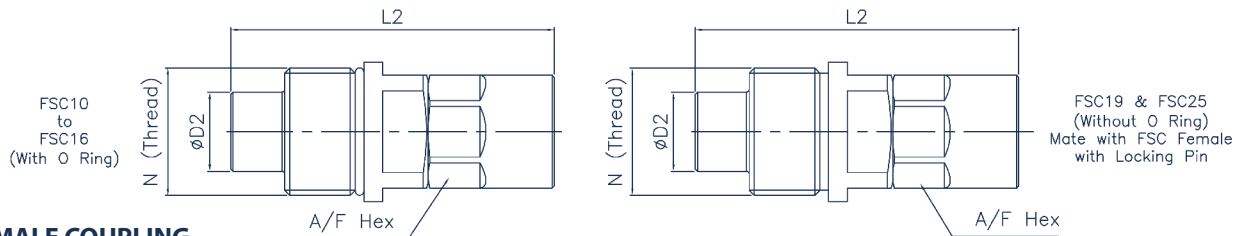
PINS
FSC-F-PIN

FSC Series



FSC FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	FSC10-F-06G	3/8 BSPP	40.0	1.57	68.5	2.70	21.0	0.83
	FSC10-F-06N	3/8 NPTF	40.0	1.57	68.2	2.69	23.8	0.94
	FSC10-F-08N	1/2 NPTF	40.0	1.57	68.8	2.71	25.4	1.00
	FSC10-F-08S	3/4-16 UNF	40.0	1.57	68.8	2.71	23.8	0.94
12 (1/2)	FSC12-F-08G	1/2 BSPP	49.2	1.94	76.4	3.01	28.5	1.12
	FSC12-F-08N	1/2 NPTF	49.2	1.94	76.4	3.01	28.5	1.12
	FSC12-F-12N	3/4 NPTF	49.2	1.94	78.3	3.08	33.3	1.31
	FSC12-F-12S	1 1/16-12 UN	49.2	1.94	78.9	3.11	33.3	1.31
16 (5/8)	FSC16-F-12N	3/4 NPTF	53.9	2.12	84.3	3.32	30.0	1.18
	FSC16-F-12S	1 1/16-12 UN	53.9	2.12	84.3	3.32	30.0	1.18
19 (3/4)	FSC19-F-12G-LP	3/4 BSPP	58.7	2.31	88.0	3.45	31.8	1.25
	FSC19-F-16N-LP	1 NPTF	58.7	2.31	91.5	3.58	34.9	1.37
	FSC19-F-16S-LP	1 5/16-12 UN	58.7	2.31	89.6	3.51	34.9	1.37
25 (1)	FSC25-F-16G-LP	1 BSPP	66.7	2.63	92.7	3.65	39.7	1.56
	FSC25-F-20N-LP	1 1/4 NPTF	66.7	2.63	93.2	3.67	46.0	1.81
	FSC25-F-20S-LP	1 5/8-12 UN	66.7	2.63	92.7	3.65	42.9	1.69



FSC MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F		N Thread Size
			mm	inch	mm	inch	mm	inch	
10 (3/8)	FSC10-M-06G	3/8 BSPP	19.7	0.78	93.4	3.68	19.0	0.75	M33x2.0
	FSC10-M-06N	3/8 NPTF	19.7	0.78	92.7	3.65	19.0	0.75	M33x2.0
	FSC10-M-08N	1/2 NPTF	19.7	0.78	94.8	3.73	25.4	1.00	M33x2.0
	FSC10-M-08S	3/4-16 UNF	19.7	0.78	95.0	3.74	23.8	0.94	M33x2.0
12 (1/2)	FSC12-M-08G	1/2 BSPP	24.5	0.96	97.5	3.84	22.2	0.87	M40x3.0
	FSC12-M-08N	1/2 NPTF	24.5	0.96	96.6	3.80	30.0	1.18	M40x3.0
	FSC12-M-12N	3/4 NPTF	24.5	0.96	100.6	3.96	30.0	1.18	M40x3.0
	FSC12-M-12S	1 1/16-12 UN	24.5	0.96	102.6	4.04	28.5	1.12	M40x3.0
16 (5/8)	FSC16-M-12N	3/4 NPTF	26.9	1.06	124.5	4.90	30.0	1.18	M45x3.0
	FSC16-M-12S	1 1/16-12 UN	26.9	1.06	126.7	4.99	31.8	1.25	M45x3.0
19 (3/4)	FSC19-M-12G	3/4 BSPP	29.9	1.17	128.3	5.02	30.0	1.18	M50x3.0
	FSC19-M-16N	1 NPTF	29.9	1.17	130.5	5.11	36.5	1.44	M50x3.0
	FSC19-M-16S	1 5/16-12 UN	29.9	1.17	132.3	5.18	38.1	1.50	M50x3.0
25 (1)	FSC25-M-16G	1 BSPP	36.0	1.42	152.3	6.00	36.5	1.44	M58x3.0
	FSC25-M-20N	1 1/4 NPTF	36.0	1.42	150.6	5.93	46.0	1.81	M58x3.0
	FSC25-M-20S	1 5/8-12 UN	36.0	1.42	148.1	5.83	46.0	1.81	M58x3.0

CAUTION - Please see installation guide on page 89



Screw to connect semi flat face zero leakage couplings

RK Series



INTRODUCTION

Holmbury's RK Series screw to connect couplings are designed for heavy-duty service conditions in applications including construction plant, high pressure pulse and agricultural machinery.



CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals

FEATURES

- Screw to connect design eliminates brinelling
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow
- Can be connected with up to 50 bar (735 psi) residual pressure in the hydraulic circuit

ACCESSORIES

- Dust caps, plugs and seal kits are available for the RK Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- High pressure pulse applications
- Construction plant
- Mobile equipment
- Demolition
- Agricultural

RK PERFORMANCE CHARACTERISTICS

Body Size	RK08	RK12	RK16	RK20	RK25
	Pressure in bar - Flow in LPM				
	Pressure in PSI - Flow in GPM				
Maximum working pressure (Coupled)	420	420	420	350	420
	6090	6090	6090	5075	6090
Burst pressure (Coupled)	1600	1600	1260	1000	1150
	23205	23206	18275	14505	16680
Burst pressure (Male)	1600	1600	1260	1000	1100
	23205	23205	18275	14505	15955
Burst pressure (Female)	1600	1600	1260	1200	900
	23205	23205	18275	17405	13055
Rated flow	23	45	74	106	189
	6.1	11.9	20	28	50

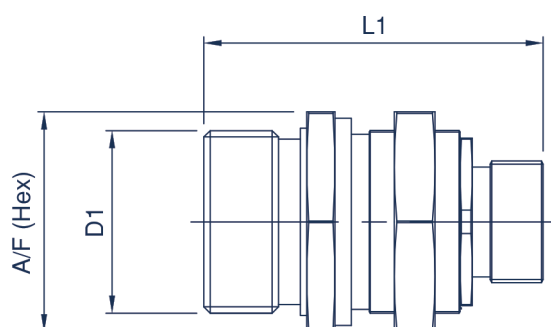
CAPS/PLUGS ACCESSORIES

FEMALE CAPS	MALE PLUGS
RK08-F-CAP	RK08-M-PLUG
RK12-F-CAP	RK12-M-PLUG
RK16-F-CAP	RK16-M-PLUG
RK20-F-CAP	RK20-M-PLUG
RK25-F-CAP	RK25-M-PLUG

Standard material is natural, anodized aluminium

SEAL KITS

FEMALE SEALS	MALE SEALS
RK08-F-SEAL KIT	RK08-M-SEAL KIT
RK12-F-SEAL KIT	RK12-M-SEAL KIT
RK16-F-SEAL KIT	RK16-M-SEAL KIT
RK20-F-SEAL KIT	RK20-M-SEAL KIT
RK25-F-SEAL KIT	RK25-M-SEAL KIT



RK FEMALE COUPLING

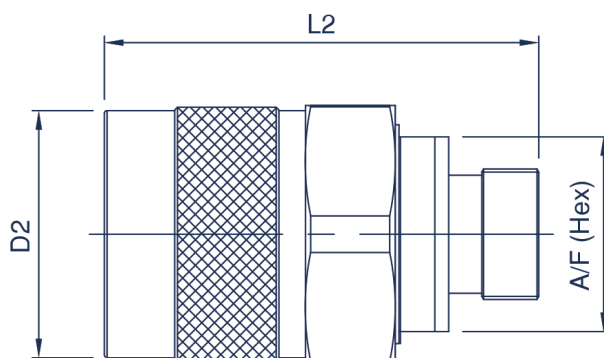
Body Size	Part Number	Thread Size	A/F		D1 (Thread)	L1	
			mm	inch		mm	inch
08 (5/16)	RK08-F-M14X1.5M-8L	M14X1.5	36.0	1.42	M32X3	57.0	2.24
	RK08-F-M16X1.5M-10L	M16X1.5	36.0	1.42	M32X3	58.0	2.28
	RK08-F-M18X1.5M-12L	M18X1.5	36.0	1.42	M32X3	58.0	2.28
	RK08-F-M22X1.5M-15L	M22X1.5	36.0	1.42	M32X3	59.0	2.32
	RK08-F-M18X1.5M-10S	M18X1.5	36.0	1.42	M32X3	59.0	2.32
	RK08-F-M20X1.5M-12S	M20X1.5	36.0	1.42	M32X3	59.0	2.32
	RK08-F-M22X1.5M-14S	M22X1.5	36.0	1.42	M32X3	61.0	2.40
	RK08-F-M24X1.5M-16S	M24X1.5	36.0	1.42	M32X3	61.0	2.40
12 (1/2)	RK12-F-M22MX1.5-15L	M22X1.5	41.0	1.61	M36X3	65.0	2.56
	RK12-F-M24X1.5M-16S	M24X1.5	41.0	1.61	M36X3	67.0	2.64
	RK12-F-M30X2M-20S	M30X2	41.0	1.61	M36X3	69.5	2.74
16 (5/8)	RK16-F-M22X1.5M-15L	M22X1.5	55.0	2.17	M48X3	75.2	2.96
	RK16-F-M26X1.5M-18L	M26X1.5	55.0	2.17	M48X3	75.2	2.96
	RK16-F-M24X1.5M-16S	M24X1.5	55.0	2.17	M48X3	77.2	3.04
	RK16-F-M30X2M-20S	M30X2	55.0	2.17	M48X3	79.2	3.12
20 (7/8)	RK20-F-M26X1.5M-18L	M26X1.5	55.0	2.17	M54X4	91.0	3.58
	RK20-F-M30X2M-22L	M30X2	55.0	2.17	M54X4	93.0	3.66
	RK20-F-M36X2M-28L	M36X2	55.0	2.17	M54X4	92.0	3.62
	RK20-F-M30X2M-20S	M30X2	55.0	2.17	M54X4	95.0	3.74
	RK20-F-M36X2M-25S	M36X2	55.0	2.17	M54X4	97.0	3.82
	RK20-F-M42X2M-30S	M42X2	55.0	2.17	M54X4	99.0	3.90
25 (1)	RK25-F-M45X2M-35L	M45X2	85.0	3.35	M79X4	122.0	4.80
	RK25-F-M52X2M-42L	M52X2	85.0	3.35	M79X4	119.0	4.80
	RK25-F-M52X2-38S	M52X2	85.0	3.35	M79X4	125.0	4.92

For all other configurations or thread types please contact the sales office.

CAUTION - Please see installation guide on page 89



Screw to connect semi flat face zero leakage couplings



RK MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
08 (5/16)	RK08-M-M14X1.5M-8L	M14X1.5	39.0	1.54	61.4	2.42	22.0	0.87
	RK08-M-M16X1.5M-10L	M16X1.5	39.0	1.54	62.4	2.46	22.0	0.87
	RK08-M-M18X1.5M-12L	M18X1.5	39.0	1.54	62.4	2.46	22.0	0.87
	RK08-M-M22X1.5M-15L	M22X1.5	39.0	1.54	63.4	2.50	22.0	0.87
	RK08-M-M18X1.5M-10S	M18X1.5	39.0	1.54	63.4	2.50	22.0	0.87
	RK08-M-M20X1.5M-12S	M20X1.5	39.0	1.54	63.4	2.50	22.0	0.87
	RK08-M-M22X1.5M-14S	M22X1.5	39.0	1.54	65.4	2.57	36.0	1.42
	RK08-M-M24X1.5M-16S	M24X1.5	39.0	1.54	65.4	2.57	36.0	1.42
12 (1/2)	RK12-M-M22MX1.5-15L	M22X1.5	45.0	1.77	78.0	3.07	36.0	1.42
	RK12-M-M24X1.5M-16S	M24X1.5	45.0	1.77	80.0	3.15	36.0	1.42
	RK12-M-M30X2M-20S	M30X2	45.0	1.77	95.0	3.20	36.0	1.42
16 (5/8)	RK16-M-M22X1.5M-15L	M22X1.5	59.0	2.32	79.0	3.11	32.0	1.26
	RK16-M-M26X1.5M-18L	M26X1.5	59.0	2.32	79.0	3.11	32.0	1.26
	RK16-M-M24X1.5M-16S	M24X1.5	59.0	2.32	81.0	3.19	32.0	1.26
	RK16-M-M30X2M-20S	M30X2	59.0	2.32	83.0	3.19	32.0	1.26
20 (7/8)	RK20-M-M26X1.5M-18L	M26X1.5	64.0	2.52	103.0	4.06	41.0	1.61
	RK20-M-M30X2M-22L	M30X2	64.0	2.52	105.0	4.13	41.0	1.61
	RK20-M-M36X2M-28L	M36X2	64.0	2.52	107.0	4.21	41.0	1.61
	RK20-M-M30X2M-20S	M30X2	64.0	2.52	109.0	4.29	41.0	1.61
	RK20-M-M36X2M-25S	M36X2	64.0	2.52	111.0	4.37	41.0	1.61
	RK20-M-M42X2M-30S	M42X2	64.0	2.52	111.0	4.37	41.0	1.61
25 (1)	RK25-M-M45X2M-35L	M45X2	90.0	3.54	136.0	5.35	55.0	2.17
	RK25-M-M52X2M-42L	M52X2	90.0	3.54	136.0	5.35	55.0	2.17
	RK25-M-M52x2M-38S	M52X2	90.0	3.54	136.0	5.35	55.0	2.17

For all other configurations or thread types please contact the sales office.





Screw to connect heavy duty couplings

HSC Series



INTRODUCTION

Holmbury's HSC Series screw to connect couplings are designed for heavy-duty, high pressure pulse applications. The unique design is built to withstand the most severe pressure pulses where other couplings fail.



CONSTRUCTION

- Carbon steel with trivalent plating
- Available only with BSPP threads
- Fitted with FKM seals

FEATURES

- Screw to connect design eliminates brinelling
- Bidirectional flow
- Once connected all internal parts are held rigid which significantly reduces fatigue of the poppet, spring and coupling body
- Can be connected and disconnected under pressure
- All internal components are replaceable
- Supplied with caps and plugs to protect threads and limit inclusion of contaminant

ACCESSORIES

- Dust caps, plugs, seal kits, repair kits, weldable brackets, spanner and tool sets are available for the HSC Series

SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Intense pressure pulse applications
- Demolition
- Hammer circuits
- Shears
- Rock crushers

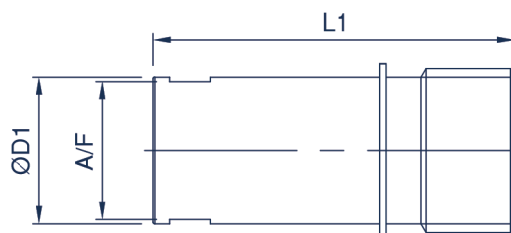
HSC PERFORMANCE CHARACTERISTICS

Body Size	HSC10	HSC12	HSC19	HSC25	HSC32	HSC40	HSC50
	Pressure in bar - Flow in LPM						
	Pressure in PSI - Flow in GPM						
Maximum working pressure (Coupled)	500 7250	450 6525	400 5800	350 5075	320 4640	300 4350	250 3625
Burst pressure (Coupled)	2000 29000	1800 26100	1600 23200	1400 20300	1280 18560	1200 17400	1000 14500
Burst pressure (Male)	2000 29000	1800 26100	1600 23200	1400 20300	1280 18560	1200 17400	1000 14500
Burst pressure (Female)	2000 29000	1800 26100	1600 23200	1400 20300	1280 18560	1200 17400	1000 14500
Rated flow	68 18	90 24	170 45	312 82	425 112	625 165	1080 285

CAPS/PLUGS ACCESSORIES

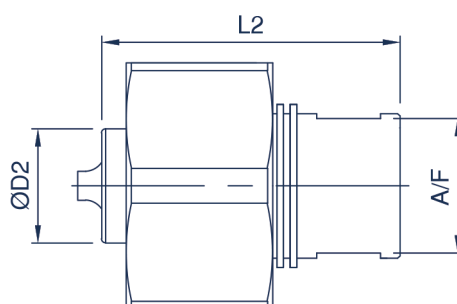
FEMALE CAPS	MALE PLUGS
HSC10-F-CAP	HSC10-M-PLUG
HSC12-F-CAP	HSC12-M-PLUG
HSC19-F-CAP	HSC19-M-PLUG
HSC25-F-CAP	HSC25-M-PLUG
HSC32-F-CAP	HSC32-M-PLUG
HSC40-F-CAP	HSC40-M-PLUG
HSC50-F-CAP	HSC50-M-PLUG

Standard material is black nylon



HSC FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		A/F		L1	
			mm	inch	mm	inch	mm	inch
10 (3/8)	HSC10-F-06G	3/8 BSPP	30.0	1.18	22.0	0.87	77.0	3.03
12 (1/2)	HSC12-F-08G	1/2 BSPP	35.0	1.38	26.0	1.02	95.0	3.74
19 (3/4)	HSC19-F-12G	3/4 BSPP	40.0	1.57	30.0	1.18	99.5	3.92
25 (1)	HSC25-F-16G	1 BSPP	52.0	2.05	40.0	1.57	106.0	4.17
32 (1 1/4)	HSC32-F-20G	1 1/4 BSPP	60.0	2.36	48.0	1.89	118.0	4.65
40 (1 1/2)	HSC40-F-24G	1 1/2 BSPP	68.0	2.68	55.0	2.17	121.0	4.76
50 (2)	HSC50-F-32G	2 BSPP	90.5	3.56	76.0	2.99	165.0	6.50



HSC MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	HSC10-M-06G	3/8 BSPP	22.0	0.87	57.0	2.24	22.0	0.87
12 (1/2)	HSC12-M-08G	1/2 BSPP	26.0	1.02	70.5	2.78	26.0	1.02
19 (3/4)	HSC19-M-12G	3/4 BSPP	28.0	1.10	73.0	2.87	30.0	1.18
25 (1)	HSC25-M-16G	1 BSPP	38.0	1.50	81.5	3.21	40.0	1.57
32 (1 1/4)	HSC32-M-20G	1 1/4 BSPP	47.5	1.87	88.0	3.46	48.0	1.89
40 (1 1/2)	HSC40-M-24G	1 1/2 BSPP	57.0	2.24	90.0	3.54	55.0	2.17
50 (2)	HSC50-M-32G	2 BSPP	75.0	2.95	120.0	4.72	76.0	2.99

SEAL KITS

HSC10-F-SEAL KIT
HSC12-F-SEAL KIT
HSC19-F-SEAL KIT
HSC25-F-SEAL KIT
HSC32-F-SEAL KIT
HSC40-F-SEAL KIT
HSC50-F-SEAL KIT

1 seal kit contains 1 FKM O-ring and 1 PTFE Back up ring to replace female half seals.

REPAIR KITS

HSC10-REPAIR KIT
HSC12-REPAIR KIT
HSC19-REPAIR KIT
HSC25-REPAIR KIT
HSC32-REPAIR KIT
HSC40-REPAIR KIT
HSC50-REPAIR KIT

1 Repair kit contains 1 FKM O-ring, 1 PTFE Back up ring, 2 poppets, 2 springs and 2 collets enough parts to rebuild 1 complete set. Tool set required.

TOOL SET

HSC10-TOOL SET
HSC12-TOOL SET
HSC19-TOOL SET
HSC25-TOOL SET
HSC32-TOOL SET
HSC40-TOOL SET
HSC50-TOOL SET

SPANNER

HSC10-SPANNER
HSC12-SPANNER
HSC19-SPANNER
HSC25-SPANNER
HSC32-SPANNER
HSC40-SPANNER
HSC50-SPANNER

WELDABLE BRACKETS

HSC10-BRACKET
HSC12-BRACKET
HSC19-BRACKET
HSC25-BRACKET
HSC32-BRACKET
HSC40-BRACKET
HSC50-BRACKET

For all other configurations or thread types please contact the sales office.



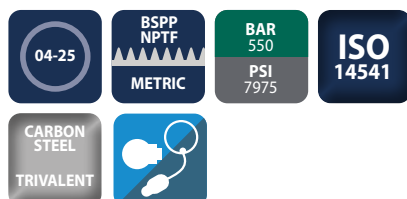
Screw to connect general purpose poppet couplings made to the ISO 14541 Standard

HS Series



INTRODUCTION

Holmbury's HS Series screw to connect couplings are designed primarily for high pressure pulse applications. They can be connected under residual system pressures of up to 50 bar (735psi). The HS Series is a cost effective, proven solution suited to many industries and applications.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals
- Also available in AISI 316 stainless steel (See SHS Series)

FEATURES

- Screw to connect design eliminates brinelling
- Modular construction enables numerous thread and connection options
- Can be connected with up to 50 bar (735 psi) residual pressure in the hydraulic circuit
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the HS Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Hammer circuits
- High pressure pulse applications
- Construction plant
- Mobile equipment
- Demolition

HS PERFORMANCE CHARACTERISTICS

Body Size	HS04	HS08	HS10	HS12	HS20	HS25
	Pressure in bar - Flow in LPM					
	Pressure in PSI - Flow in GPM					
Maximum working pressure (Coupled)	450 6525	450 6525	400 5800	400 5800	300 4350	300 4350
Burst pressure (Coupled)	1800 26100	1600 23200	1400 20300	1500 21750	1180 17110	1800 26100
Burst pressure (Male)	1400 20300	1550 22475	1200 17400	1200 17400	1100 15950	1200 17400
Burst pressure (Female)	1400 20300	1750 25375	1200 17400	1600 23200	1500 21750	1600 23200
Rated flow	12 3.2	23 6.1	45 12	106 26.4	189 49.9	288 76

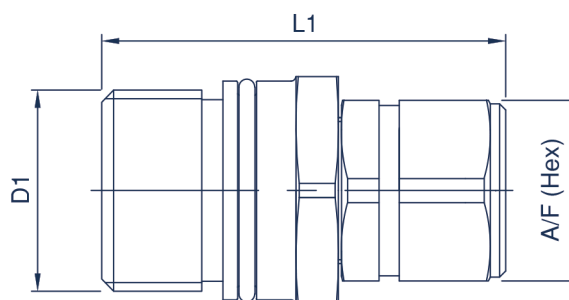
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
HS04-F-PLUG	HS04-M-CAP
HS08-F-PLUG	HS08-M-CAP
HS10-F-PLUG	HS10-M-CAP
HS12-F-PLUG	HS12-M-CAP
HS20-F-PLUG	HS20-M-CAP
HS25-F-PLUG	HS25-M-CAP

Standard material is natural, anodized aluminium

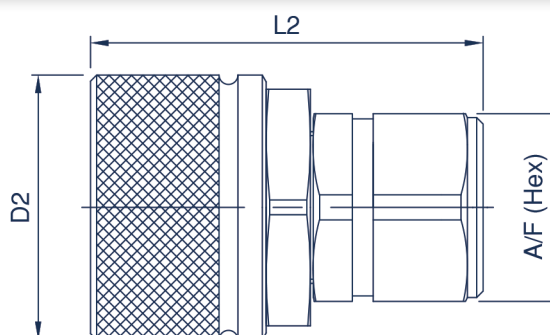
SEAL KITS

HS04-F-SEAL KIT
HS08-F-SEAL KIT
HS10-F-SEAL KIT
HS12-F-SEAL KIT
HS20-F-SEAL KIT
HS25-F-SEAL KIT



HS FEMALE COUPLING

ISO Standard	Body Size	Part Number	Thread Size	D1	L1		A/F	
				(Thread)	mm	inch	mm	inch
6.3	04 (1/8)	HS04-F-04G	1/4 BSPP	M24X2	60.0	2.36	19.0	0.75
		HS04-F-04N	1/4 NPTF	M24X2	60.0	2.36	19.0	0.75
10	08 (5/16)	HS08-F-04G	1/4 BSPP	M28X2	64.0	2.52	22.0	0.87
		HS08-F-06G	3/8 BSPP	M28X2	64.0	2.52	22.0	0.87
		HS08-F-06N	3/8 NPTF	M28X2	64.0	2.52	22.0	0.87
12.5	10 (3/8)	HS10-F-06G	3/8 BSPP	M36X2	67.0	2.64	30.0	1.18
		HS10-F-08G	1/2 BSPP	M36X2	67.0	2.64	30.0	1.18
		HS10-F-08N	1/2 NPTF	M36X2	67.0	2.64	30.0	1.18
20	12 (1/2)	HS12-F-08G	1/2 BSPP	M42X2	86.0	3.39	36.0	1.42
		HS12-F-12G	3/4 BSPP	M42X2	86.0	3.39	36.0	1.42
		HS12-F-12N	3/4 NPTF	M42X2	86.0	3.39	36.0	1.42
N/A	20 (3/4)	HS20-F-12G	3/4 BSPP	M48X3	98.0	3.86	41.0	1.61
		HS20-F-16G	1 BSPP	M48X3	98.0	3.86	41.0	1.61
		HS20-F-16N	1 NPTF	M48X3	98.0	3.86	41.0	1.61
N/A	25 (1)	HS25-F-20G	1 1/4 BSPP	M70X3	125.0	4.92	55.0	2.17
		HS25-F-24G	1 1/2 BSPP	M70X3	127.0	5.00	55.0	2.17



HS MALE COUPLING

ISO Standard	Body Size	Part Number	Thread Size	D2		L2		A/F	
				mm	inch	mm	inch	mm	inch
6.3	04 (1/8)	HS04-M-04G	1/4 BSPP	35.0	1.38	59.0	2.32	19.0	0.75
		HS04-M-04N	1/4 NPTF	35.0	1.38	59.0	2.32	19.0	0.75
10	08 (5/16)	HS08-M-04G	1/4 BSPP	34.0	1.34	61.0	2.40	22.0	0.87
		HS08-M-06G	3/8 BSPP	34.0	1.34	61.0	2.40	22.0	0.87
		HS08-M-06N	3/8 NPTF	34.0	1.34	61.0	2.40	22.0	0.87
12.5	10 (3/8)	HS10-M-06G	3/8 BSPP	42.1	1.66	64.0	2.52	30.0	1.18
		HS10-M-08G	1/2 BSPP	42.1	1.66	64.0	2.52	30.0	1.18
		HS10-M-08N	1/2 NPTF	42.1	1.66	64.0	2.52	30.0	1.18
20	12 (1/2)	HS12-M-08G	1/2 BSPP	48.5	1.91	75.0	2.95	36.0	1.42
		HS12-M-12G	3/4 BSPP	48.5	1.91	75.0	2.95	36.0	1.42
		HS12-M-12N	3/4 NPTF	48.5	1.91	75.0	2.95	36.0	1.42
N/A	20 (3/4)	HS20-M-12G	3/4 BSPP	55.0	2.17	81.0	3.19	41.0	1.61
		HS20-M-16G	1 BSPP	55.0	2.17	81.0	3.19	41.0	1.61
		HS20-M-16N	1 NPTF	55.0	2.17	81.0	3.19	41.0	1.61
N/A	25 (1)	HS25-M-20G	1 1/4 BSPP	85.0	3.35	131.0	5.16	55.0	2.17
		HS25-M-24G	1 1/2 BSPP	85.0	3.35	134.0	5.28	55.0	2.17

For all other configurations or thread types please contact the sales office.



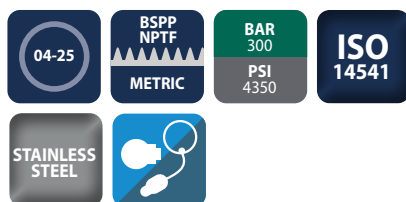
Screw to connect stainless steel general purpose couplings made to the ISO 14541 Standard dimensions

SHS Series



INTRODUCTION

Holmbury's SHS Series stainless steel screw to connect couplings are designed primarily for high pressure pulse applications. They incorporate all the benefits of the carbon steel HS Series, whilst being perfectly suited for corrosive fluids and environments.



CONSTRUCTION

- AISI 316 stainless steel (All components)
- Fitted with FKM seals (Other seals available on request)
- Also available in carbon steel (See HS Series)

FEATURES

- Can be connected with 50 bar (735 psi) residual pressure in the hydraulic circuit
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the SHS Series

SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Hydraulic jacks
- Marine
- Offshore/onshore

SHS PERFORMANCE CHARACTERISTICS

Body Size	SHS04	SHS08	SHS10	SHS12	SHS20	SHS25
	Pressure in bar - Flow in LPM					
	Pressure in PSI - Flow in GPM					
Maximum working pressure (Coupled)	300 4350	300 4350	250 3625	250 3625	200 2900	150 2175
Burst pressure (Coupled)	900 13050	900 13050	750 10875	750 10875	650 9425	450 6525
Burst pressure (Male)	950 13775	900 13050	800 11600	800 11600	700 10150	480 6960
Burst pressure (Female)	900 13050	900 13050	750 10875	750 10875	650 9425	450 6525
Rated flow	12 3.2	23 6.1	45 12	106 26.4	189 49.9	288 76

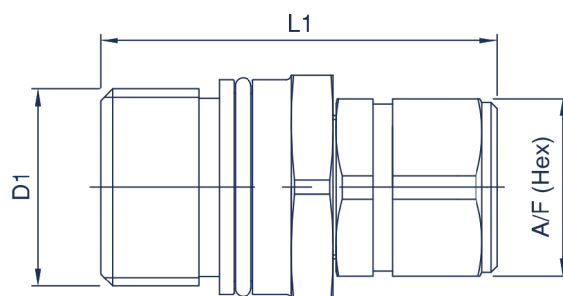
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
SHS04-F-PLUG	SHS04-M-CAP
SHS08-F-PLUG	SHS08-M-CAP
SHS10-F-PLUG	SHS10-M-CAP
SHS12-F-PLUG	SHS12-M-CAP
SHS20-F-PLUG	SHS20-M-CAP
SHS25-F-PLUG	SHS25-M-CAP

Standard material is natural, anodized aluminium

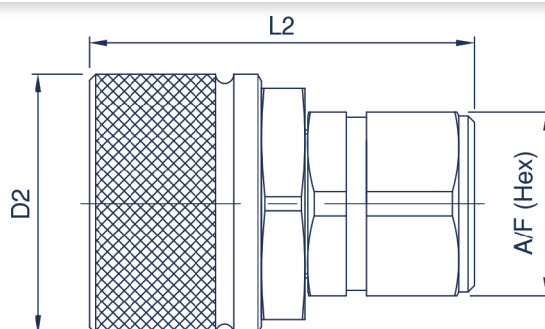
SEAL KITS

SHS04-F-SEAL KIT
SHS08-F-SEAL KIT
SHS10-F-SEAL KIT
SHS12-F-SEAL KIT
SHS20-F-SEAL KIT
SHS25-F-SEAL KIT



SHS FEMALE COUPLING

ISO Standard	Body Size	Part Number	Thread Size	D1	L1		A/F	
				(Thread)	mm	inch	mm	inch
6.3	04 (1/8)	SHS04-F-04G	1/4 BSPP	M24X2	60.0	2.36	19.0	0.75
		SHS04-F-04N	1/4 NPTF	M24X2	60.0	2.36	19.0	0.75
10	08 (5/16)	SHS08-F-04G	1/4 BSPP	M28X2	64.0	2.52	22.0	0.87
		SHS08-F-06G	3/8 BSPP	M28X2	64.0	2.52	22.0	0.87
		SHS08-F-06N	3/8 NPTF	M28X2	64.0	2.52	22.0	0.87
12.5	10 (3/8)	SHS10-F-06G	3/8 BSPP	M36X2	67.0	2.64	30.0	1.18
		SHS10-F-08G	1/2 BSPP	M36X2	67.0	2.64	30.0	1.18
		SHS10-F-08N	1/2 NPTF	M36X2	67.0	2.64	30.0	1.18
20	12 (1/2)	SHS12-F-08G	1/2 BSPP	M42X2	86.0	3.39	36.0	1.42
		SHS12-F-12G	3/4 BSPP	M42X2	86.0	3.39	36.0	1.42
		SHS12-F-12N	3/4 NPTF	M42X2	86.0	3.39	36.0	1.42
N/A	20 (3/4)	SHS20-F-12G	3/4 BSPP	M48X3	98.0	3.86	41.0	1.61
		SHS20-F-16G	1 BSPP	M48X3	98.0	3.86	41.0	1.61
		SHS20-F-16N	1 NPTF	M48X3	98.0	3.86	41.0	1.61
N/A	25 (1)	SHS25-F-20G	1 1/4 BSPP	M70X3	125.0	4.92	55.0	2.17
		SHS25-F-24G	1 1/2 BSPP	M70X3	127.0	5.00	55.0	2.17



SHS MALE COUPLING

ISO Standard	Body Size	Part Number	Thread Size	D2		L2		A/F	
				mm	inch	mm	inch	mm	inch
6.3	04 (1/8)	SHS04-M-04G	1/4 BSPP	35.0	1.38	59.0	2.32	19.0	0.75
		SHS04-M-04N	1/4 NPTF	35.0	1.38	59.0	2.32	19.0	0.75
10	08 (5/16)	SHS08-M-04G	1/4 BSPP	34.0	1.34	61.0	2.40	22.0	0.87
		SHS08-M-06G	3/8 BSPP	34.0	1.34	61.0	2.40	22.0	0.87
		SHS08-M-06N	3/8 NPTF	34.0	1.34	61.0	2.40	22.0	0.87
12.5	10 (3/8)	SHS10-M-06G	3/8 BSPP	42.1	1.66	64.0	2.52	30.0	1.18
		SHS10-M-08G	1/2 BSPP	42.1	1.66	64.0	2.52	30.0	1.18
		SHS10-M-08N	1/2 NPTF	42.1	1.66	64.0	2.52	30.0	1.18
20	12 (1/2)	SHS12-M-08G	1/2 BSPP	48.5	1.91	75.0	2.95	36.0	1.42
		SHS12-M-12G	3/4 BSPP	48.5	1.91	75.0	2.95	36.0	1.42
		SHS12-M-12N	3/4 NPTF	48.5	1.91	75.0	2.95	36.0	1.42
N/A	20 (3/4)	SHS20-M-12G	3/4 BSPP	55.0	2.17	81.0	3.19	41.0	1.61
		SHS20-M-16G	1 BSPP	55.0	2.17	81.0	3.19	41.0	1.61
		SHS20-M-16N	1 NPTF	55.0	2.17	81.0	3.19	41.0	1.61
N/A	25 (1)	SHS25-M-20G	1 1/4 BSPP	85.0	3.35	131.0	5.16	55.0	2.17
		SHS25-M-24G	1 1/2 BSPP	85.0	3.35	134.0	5.28	55.0	2.17

For all other configurations or thread types please contact the sales office.



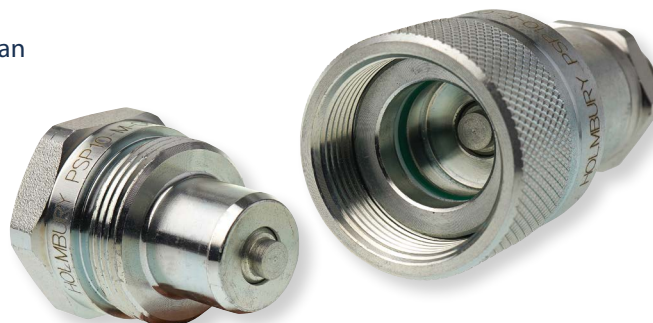
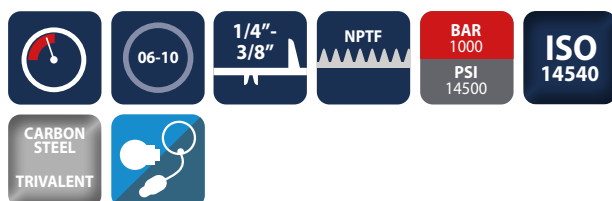
Screw to connect high pressure poppet and ball couplings made to the ISO 14540 Standard

PSP, PSB Series



INTRODUCTION

Holmbury's PSP Series screw to connect couplings are designed primarily for high pressure applications. They can be connected under low residual system pressures. The couplings are available with ball or poppet style valves.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with Polyurethane and NBR seals

FEATURES

- Screw to connect design eliminates brinelling
- PSP offers poppet style valve
- PSB offers ball style valve
- Can be connected with low residual pressure in the hydraulic circuit
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs, plastic couplings and seal kits are available for the PSP and PSB Series

SPECIFICATIONS

- Operating temperatures (With NBR and Polyurethane seals): -30°C (-22°F) to 106°C (223°F)

APPLICATIONS

- High pressure applications (Up to 720 bar (10440 psi) for PSB and 1000 bar (14500 psi) for PSP)
- General industrial, construction plant, mobile equipment, demolition and agricultural industries
- Hydraulic jacks
- Torque wrenches

PSP, PSB PERFORMANCE CHARACTERISTICS

Body Size	PSB06	PSB10	PSP06	PSP10
	Pressure in bar - Flow in LPM			
	Pressure in PSI - Flow in GPM			
Maximum working pressure (Coupled)	720 10440	720 10440	1000 14500	1000 14500
Burst pressure (Coupled)	2160 31320	2160 31320	2160 31320	2160 31320
Burst pressure (Male)	1440 20880	1440 20880	2160 31320	2160 31320
Burst pressure (Female)	1400 20300	1400 20300	2100 30450	2100 30450
Rated flow	12 3.17	23 6.1	12 3.17	23 6.1

CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
PS06-F-PLUG	PS06-M-CAP
PS10-F-PLUG	PS10-M-CAP

Standard material is steel

DUAL CAP/PLUG

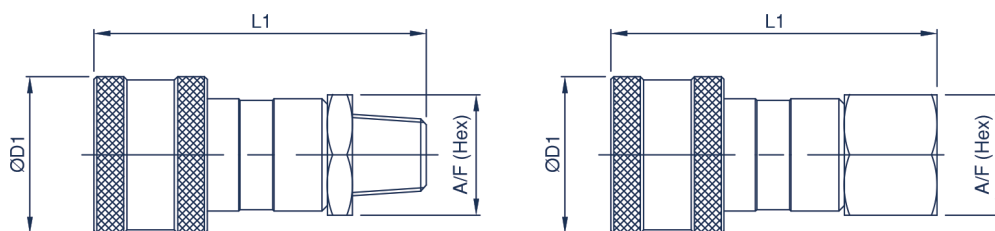
PS06-CAP/PLUG
PS10-CAP/PLUG

Available in red or black, material is PVC

SEAL KITS

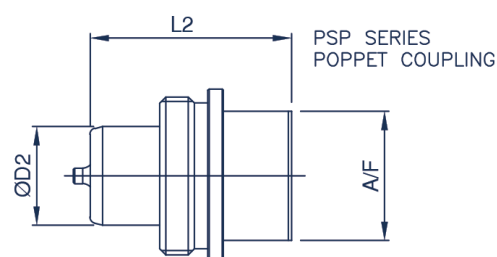
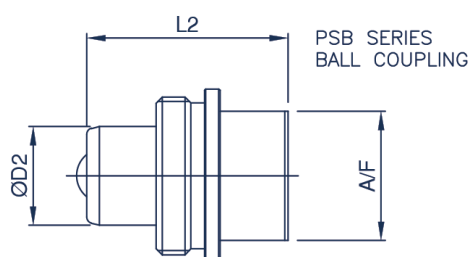
PS06-F-SEAL KIT
PS10-F-SEAL KIT

PSP, PSB Series



PSP, PSB FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	PSB06-F-04N	1/4 NPTF	28.6	1.13	59.7	2.35	22.0	0.87
	PSB06-F-04NM	1/4 NPTF	28.6	1.13	60.8	2.39	22.0	0.87
	PSP06-F-04N	1/4 NPTF	28.6	1.13	58.6	2.31	22.0	0.87
	PSP06-F-04NM	1/4 NPTF	28.6	1.13	59.7	2.35	22.0	0.87
10 (3/8)	PSB10-F-06N	3/8 NPTF	35.0	1.38	73.5	2.89	25.0	0.98
	PSB10-F-06NM	3/8 NPTF	35.0	1.38	73.5	2.89	25.0	0.98
	PSP10-F-06N	3/8 NPTF	35.0	1.38	73.5	2.89	25.0	0.98
	PSP10-F-06NM	3/8 NPTF	35.0	1.38	73.5	2.89	25.0	0.98



PSP, PSB MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	PSB06-M-04N	1/4 NPTF	15.8	0.62	32.5	1.28	19.0	0.75
	PSP06-M-04N	1/4 NPTF	15.8	0.62	32.5	1.28	19.0	0.75
10 (3/8)	PSB10-M-06N	3/8 NPTF	19.0	0.75	35.0	1.38	32.0	1.26
	PSP10-M-06N	3/8 NPTF	19.0	0.75	35.0	1.38	32.0	1.26

For all other configurations or thread types please contact the sales office.



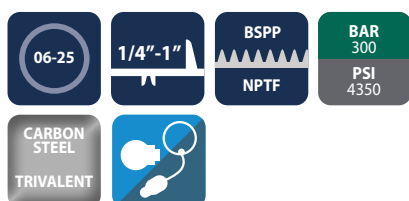
Screw to connect and pull break couplings

PLC Series



INTRODUCTION

Holmbury's PLC Series screw to connect couplings allow for connection under pressure and are ideal choice for agricultural applications with high pressure pulses.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals

FEATURES

- Screw connection only possible with both halves of PLC Series
- Interchangeable with ISO A Series male (Size 1/2" ISO A only)
- Screw to connect design eliminates brinelling
- Can be connected with residual pressure in the system
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the PLC Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Agricultural applications
- General industrial
- Snow ploughs

PLC PERFORMANCE CHARACTERISTICS

Body Size	PLC06	PLC10	PLC12	PLC19	PLC25
	Pressure in bar - Flow in LPM				
	Pressure in PSI - Flow in GPM				
Maximum working pressure (Coupled)	300 4350	300 4350	300 4350	280 4060	250 3625
Burst pressure (Coupled)	1600 23200	1600 23200	1600 23200	1300 18850	1200 17400
Burst pressure (Male)	1600 23200	1600 23200	1550 22475	1300 18850	1200 17400
Burst pressure (Female)	1550 22475	1550 22475	1500 21750	1300 18850	1100 15950
Rated flow	3 0.8	23 6.1	45 12	106 28	189 50

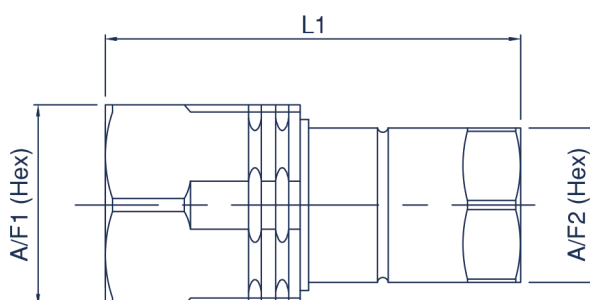
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
PLC06-F-PLUG	PLC06-M-CAP
PLC10-F-PLUG	PLC10-M-CAP
PLC12-F-PLUG	PLC12-M-CAP
PLC19-F-PLUG	PLC19-M-CAP
PLC25-F-PLUG	PLC25-M-CAP

Standard material is aluminium

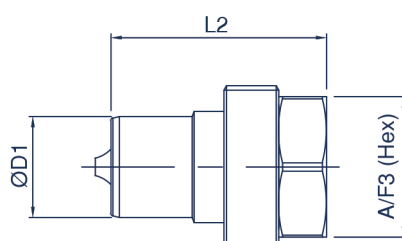
SEAL KITS

PLC06-F-SEAL KIT
PLC10-F-SEAL KIT
PLC12-F-SEAL KIT
PLC19-F-SEAL KIT
PLC25-F-SEAL KIT



PLC FEMALE COUPLING

Body Size	Part Number	Thread Size	A/F1		L1		A/F2	
			mm	inch	mm	inch	mm	inch
06 (1/4)	PLC06-F-04G	1/4 BSPP	27.0	1.06	66.0	2.60	19.0	0.75
	PLC06-F-04N	1/4 NPTF	27.0	1.06	66.0	2.60	19.0	0.75
	PLC06-F-06S	9/16-18 UNF	27.0	1.06	66.0	2.60	19.0	0.75
10 (3/8)	PLC10-F-06G	3/8 BSPP	34.0	1.34	76.0	2.99	24.0	0.94
	PLC10-F-06N	3/8 NPTF	34.0	1.34	76.0	2.99	24.0	0.94
	PLC10-F-06S	9/16-18 UNF	34.0	1.34	76.0	2.99	24.0	0.94
12 (1/2)	PLC12-F-08G	1/2 BSPP	38.0	1.50	82.0	3.23	27.0	1.06
	PLC12-F-08N	1/2 NPTF	38.0	1.50	82.0	3.23	27.0	1.06
	PLC12-F-08S	3/4-16 UNF	38.0	1.50	82.0	3.23	27.0	1.06
19 (3/4)	PLC19-F-12G	3/4 BSPP	50.0	1.97	105.0	4.13	34.0	1.34
	PLC19-F-12N	3/4 NPTF	50.0	1.97	105.0	4.13	34.0	1.34
	PLC19-F-12S	1 1/16-12 UN	50.0	1.97	105.0	4.13	34.0	1.34
25 (1)	PLC25-F-16G	1 BSPP	55.0	2.17	125.0	4.92	41.0	1.61
	PLC25-F-16N	1 NPTF	55.0	2.17	125.0	4.92	41.0	1.61
	PLC25-F-16S	1 5/16-12 UN	55.0	2.17	125.0	4.92	41.0	1.61



PLC MALE COUPLING

Body Size	Part Number	Thread Size	D1		L2		A/F3	
			mm	inch	mm	inch	mm	inch
06 (1/4)	PLC06-M-04G	1/4 BSPP	14.2	0.56	33.0	1.30	19.0	0.75
	PLC06-M-04N	1/4 NPTF	14.2	0.56	33.0	1.30	19.0	0.75
	PLC06-M-06S	9/16-18 UNF	14.2	0.56	33.0	1.30	19.0	0.75
10 (3/8)	PLC10-M-06G	3/8 BSPP	19.0	0.75	40.5	1.59	24.0	0.94
	PLC10-M-06N	3/8 NPTF	19.0	0.75	40.5	1.59	24.0	0.94
	PLC10-M-06S	9/16-18 UNF	19.0	0.75	40.5	1.59	24.0	0.94
12 (1/2)	PLC12-M-08G	1/2 BSPP	20.5	0.81	49.0	1.93	27.0	1.06
	PLC12-M-08N	1/2 NPTF	20.5	0.81	49.0	1.93	27.0	1.06
	PLC12-M-08S	3/4-16 UNF	20.5	0.81	49.0	1.93	27.0	1.06
19 (3/4)	PLC19-M-12G	3/4 BSPP	28.0	1.10	62.0	2.44	34.0	1.34
	PLC19-M-12N	3/4 NPTF	28.0	1.10	62.0	2.44	34.0	1.34
	PLC19-M-12S	1 1/16-12 UN	28.0	1.10	62.0	2.44	34.0	1.34
25 (1)	PLC25-M-16G	1 BSPP	31.3	1.23	73.0	2.87	41.0	1.61
	PLC25-M-16N	1 NPTF	31.3	1.23	73.0	2.87	41.0	1.61
	PLC25-M-16S	1 5/16-12 UN	31.3	1.23	73.0	2.87	41.0	1.61

For all other configurations or thread types please contact the sales office.



Screw to connect high pressure heavy duty couplings

PTC Series



INTRODUCTION

Holmbury's PTC Series screw to connect couplings are designed for heavy duty applications involving very high pressures and severe pressure pulse conditions.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals
- Also available in AISI 316 stainless steel (See PTS Series)

FEATURES

- Screw to connect design eliminates brinelling
- Can be connected with up to 50 bar (735 psi) residual pressure in the hydraulic circuit
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the PTC Series

SPECIFICATIONS

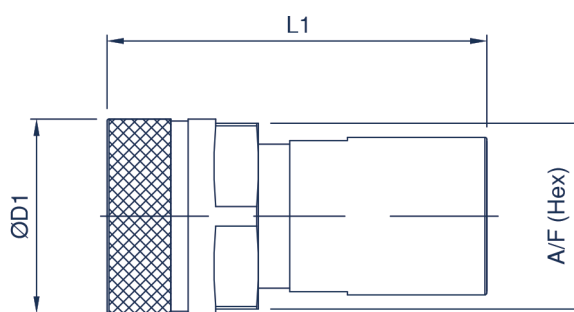
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Hydraulic jacks
- Hydraulic hammers
- Construction plant
- Mobile equipment
- Demolition
- Agricultural industries

PTC PERFORMANCE CHARACTERISTICS

Body Size	PTC06	PTC10	PTC12	PTC19	PTC25	PTC32	PTC40	PTC50
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure (Coupled)	800	750	750	700	550	550	400	350
	11600	10875	10875	10150	7975	7975	5800	5075
Burst pressure (Coupled)	2500	2350	2180	2140	1960	2000	1480	1020
	36250	34075	31610	31030	28420	29000	21460	14790
Burst pressure (Male)	2400	2850	2400	2120	1580	1780	1180	1300
	34800	41325	34800	30740	22910	25910	17110	18850
Burst pressure (Female)	2400	2450	2180	2300	2220	1780	1290	1300
	34800	35525	31610	33350	32190	25810	18705	18850
Rated flow	3	23	45	106	189	288	379	757
	0.8	6.1	12	28	50	76	100	200



PTC FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	PTC06-F-04G	1/4 BSPP	30.0	1.18	61.5	2.42	27.0	1.06
	PTC06-F-04N	1/4 NPTF	30.0	1.18	61.5	2.42	27.0	1.06
	PTC06-F-06S	9/16-18 UNF	30.0	1.18	61.5	2.42	27.0	1.06
10 (3/8)	PTC10-F-06G	3/8 BSPP	39.0	1.54	69.0	2.72	36.0	1.42
	PTC10-F-06N	3/8 NPTF	39.0	1.54	69.0	2.72	36.0	1.42
	PTC10-F-06S	9/16-18 UNF	39.0	1.54	69.0	2.72	36.0	1.42
12 (1/2)	PTC12-F-08G	1/2 BSPP	44.0	1.73	79.0	3.11	41.0	1.61
	PTC12-F-08N	1/2 NPTF	44.0	1.73	79.0	3.11	41.0	1.61
	PTC12-F-08S	3/4-16 UNF	44.0	1.73	79.0	3.11	41.0	1.61
19 (3/4)	PTC19-F-12G	3/4 BSPP	54.0	2.13	97.5	3.84	50.0	1.97
	PTC19-F-12N	3/4 NPTF	54.0	2.13	97.5	3.84	50.0	1.97
	PTC19-F-12S	1 1/16-12 UN	54.0	2.13	97.5	3.84	50.0	1.97
25 (1)	PTC25-F-16G	1 BSPP	59.0	2.32	112.5	4.43	54.5	2.15
	PTC25-F-16N	1 NPTF	59.0	2.32	112.5	4.43	54.5	2.15
	PTC25-F-16S	1 5/16-12 UN	59.0	2.32	112.5	4.43	54.5	2.15
32 (1 1/4)	PTC32-F-20G	1 1/4 BSPP	80.0	3.15	139.5	5.49	74.5	2.93
	PTC32-F-20N	1 1/4 NPTF	80.0	3.15	139.5	5.49	74.5	2.93
	PTC32-F-20S	1 5/8-12 UN	80.0	3.15	139.5	5.49	74.5	2.93
40 (1 1/2)	PTC40-F-24G	1 1/2 BSPP	98.0	3.86	172.0	6.77	90.0	3.54
	PTC40-F-24N	1 1/2 NPTF	98.0	3.86	172.0	6.77	90.0	3.54
	PTC40-F-24S	1 7/8-12 UN	98.0	3.86	172.0	6.77	90.0	3.54
50 (2)	PTC50-F-32G	2 BSPP	127.5	5.02	160.0	6.30	123.0	4.84
	PTC50-F-32N	2 NPTF	127.5	5.02	160.0	6.30	123.0	4.84
	PTC50-F-32S	2 1/2-12 UN	127.5	5.02	160.0	6.30	123.0	4.84

For all other configurations or thread types please contact the sales office.

CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
PTC06-F-PLUG	PTC06-M-CAP
PTC10-F-PLUG	PTC10-M-CAP
PTC12-F-PLUG	PTC12-M-CAP
PTC19-F-PLUG	PTC19-M-CAP
PTC25-F-PLUG	PTC25-M-CAP

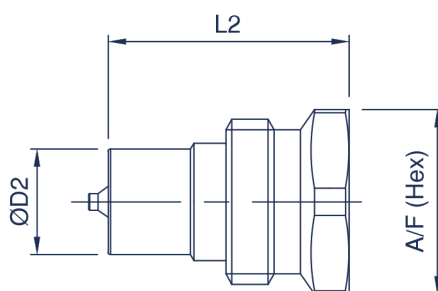
Standard material is aluminium

SEAL KITS

PTC06-F-SEAL KIT
PTC10-F-SEAL KIT
PTC12-F-SEAL KIT
PTC19-F-SEAL KIT
PTC25-F-SEAL KIT
PTC32-F-SEAL KIT
PTC40-F-SEAL KIT
PTC50-F-SEAL KIT



Screw to connect high pressure heavy duty couplings



PTC MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	PTC06-M-04G	1/4 BSPP	14.2	0.56	43.0	1.69	25.0	0.98
	PTC06-M-04N	1/4 NPTF	14.2	0.56	43.0	1.69	25.0	0.98
	PTC06-M-06S	9/16-18 UNF	14.2	0.56	43.0	1.69	25.0	0.98
10 (3/8)	PTC10-M-06G	3/8 BSPP	19.0	0.75	48.5	1.91	32.0	1.26
	PTC10-M-06N	3/8 NPTF	19.0	0.75	48.5	1.91	32.0	1.26
	PTC10-M-06S	9/16-18 UNF	19.0	0.75	48.5	1.91	32.0	1.26
12 (1/2)	PTC12-M-08G	1/2 BSPP	20.5	0.81	53.0	2.09	34.0	1.34
	PTC12-M-08N	1/2 NPTF	20.5	0.81	53.0	2.09	34.0	1.34
	PTC12-M-08S	3/4-16 UNF	20.5	0.81	53.0	2.09	34.0	1.34
19 (3/4)	PTC19-M-12G	3/4 BSPP	28.0	1.10	63.0	2.48	46.0	1.81
	PTC19-M-12N	3/4 NPTF	28.0	1.10	63.0	2.48	46.0	1.81
	PTC19-M-12S	1 1/16-12 UN	28.0	1.10	63.0	2.48	46.0	1.81
25 (1)	PTC25-M-16G	1 BSPP	31.3	1.23	72.5	2.85	50.0	1.97
	PTC25-M-16N	1 NPTF	31.3	1.23	72.5	2.85	50.0	1.97
	PTC25-M-16S	1 5/16-12 UN	31.3	1.23	72.5	2.85	50.0	1.97
32 (1 1/4)	PTC32-M-20G	1 1/4 BSPP	44.0	1.73	86.0	3.39	65.0	2.56
	PTC32-M-20N	1 1/4 NPTF	44.0	1.73	86.0	3.39	65.0	2.56
	PTC32-M-20S	1 5/8-12 UN	44.0	1.73	86.0	3.39	65.0	2.56
40 (1 1/2)	PTC40-M-24G	1 1/2 BSPP	53.5	2.11	95.0	3.74	80.0	3.15
	PTC40-M-24N	1 1/2 NPTF	53.5	2.11	95.0	3.74	80.0	3.15
	PTC40-M-24S	1 7/8-12 UN	53.5	2.11	95.0	3.74	80.0	3.15
50 (2)	PTC50-M-32G	2 BSPP	82.0	3.23	118.5	4.67	110.0	4.33
	PTC50-M-32N	2 NPTF	82.0	3.23	118.5	4.67	110.0	4.33
	PTC50-M-32S	2 1/2-12 UN	82.0	3.23	118.5	4.67	110.0	4.33

Carbon steel standard, for stainless steel change PTC to PTS.

For all other configurations or thread types please contact the sales office.

PTS Series



INTRODUCTION

Holmbury's PTS Series stainless steel screw to connect couplings are designed for heavy duty applications involving very high pressures and severe pressure pulses. They incorporate all the benefits of the carbon steel PTC Series, whilst being perfectly suited for corrosive fluids and environments.



CONSTRUCTION

- AISI 316 stainless steel
- Fitted with FKM seals (Other seals available on request)
- Also available in carbon steel (See PTC Series)

FEATURES

- Can be connected with 50 bar (735 psi) residual pressure in the hydraulic circuit
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the PTS Series

SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

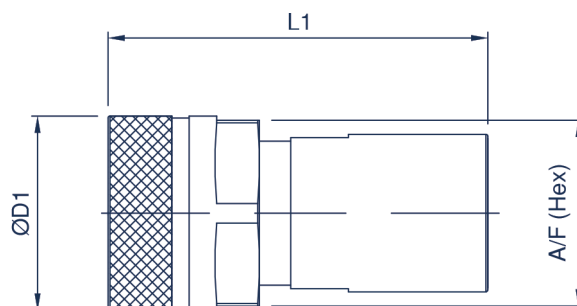
- Hydraulic jacks
- Marine
- Offshore/onshore

PTS PERFORMANCE CHARACTERISTICS

Body Size	PTS06	PTS10	PTS12	PTS19	PTS25	PTS32	PTS40	PTS50
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure (Coupled)	700 10150	650 9425	600 8700	500 7250	460 6670	380 5510	365 5292	300 4350
Burst pressure (Coupled)	3700 53650	2600 37700	2500 36250	2400 34800	1500 21750	1000 14500	1000 14500	900 13050
Burst pressure (Male)	3700 53650	2300 33350	2100 30450	2100 30450	1600 23200	1000 14500	900 13050	900 13050
Burst pressure (Female)	3800 55100	2000 29000	2700 39150	1700 24650	1900 27550	1000 14500	950 13775	900 13050
Rated flow	3 0.8	23 6.1	45 12	106 28	189 50	288 76	379 100	757 200



Screw to connect high pressure heavy duty couplings



PTS FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	PTS06-F-04G	1/4 BSPP	30.0	1.18	61.5	2.42	27.0	1.06
	PTS06-F-04N	1/4 NPTF	30.0	1.18	61.5	2.42	27.0	1.06
	PTS06-F-06S	9/16-18 UNF	30.0	1.18	61.5	2.42	27.0	1.06
10 (3/8)	PTS10-F-06G	3/8 BSPP	39.0	1.54	69.0	2.72	36.0	1.42
	PTS10-F-06N	3/8 NPTF	39.0	1.54	69.0	2.72	36.0	1.42
	PTS10-F-06S	9/16-18 UNF	39.0	1.54	69.0	2.72	36.0	1.42
12 (1/2)	PTS12-F-08G	1/2 BSPP	44.0	1.73	79.0	3.11	41.0	1.61
	PTS12-F-08N	1/2 NPTF	44.0	1.73	79.0	3.11	41.0	1.61
	PTS12-F-08S	3/4-16 UNF	44.0	1.73	79.0	3.11	41.0	1.61
19 (3/4)	PTS19-F-12G	3/4 BSPP	54.0	2.13	97.5	3.84	50.0	1.97
	PTS19-F-12N	3/4 NPTF	54.0	2.13	97.5	3.84	50.0	1.97
	PTS19-F-12S	1 1/16-12 UN	54.0	2.13	97.5	3.84	50.0	1.97
25 (1)	PTS25-F-16G	1 BSPP	59.0	2.32	112.5	4.43	54.5	2.15
	PTS25-F-16N	1 NPTF	59.0	2.32	112.5	4.43	54.5	2.15
	PTS25-F-16S	1 5/16-12 UN	59.0	2.32	112.5	4.43	54.5	2.15
32 (1 1/4)	PTS32-F-20G	1 1/4 BSPP	80.0	3.15	139.5	5.49	74.5	2.93
	PTS32-F-20N	1 1/4 NPTF	80.0	3.15	139.5	5.49	74.5	2.93
	PTS32-F-20S	1 5/8-12 UN	80.0	3.15	139.5	5.49	74.5	2.93
40 (1 1/2)	PTS40-F-24G	1 1/2 BSPP	98.0	3.86	172.0	6.77	90.0	3.54
	PTS40-F-24N	1 1/2 NPTF	98.0	3.86	172.0	6.77	90.0	3.54
	PTS40-F-24S	1 7/8-12 UN	98.0	3.86	172.0	6.77	90.0	3.54
50 (2)	PTS50-F-32G	2 BSPP	127.5	5.02	160.0	6.30	123.0	4.84
	PTS50-F-32N	2 NPTF	127.5	5.02	160.0	6.30	123.0	4.84
	PTS50-F-32S	2 1/2-12 UN	127.5	5.02	160.0	6.30	123.0	4.84

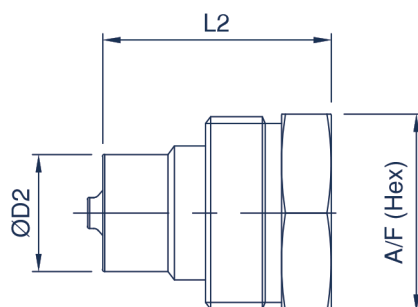
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
PTS06-F-PLUG	PTS06-M-CAP
PTS10-F-PLUG	PTS10-M-CAP
PTS12-F-PLUG	PTS12-M-CAP
PTS19-F-PLUG	PTS19-M-CAP
PTS25-F-PLUG	PTS25-M-CAP

Standard material is aluminium

SEAL KITS

PTS06-F-SEAL KIT
 PTS10-F-SEAL KIT
 PTS12-F-SEAL KIT
 PTS19-F-SEAL KIT
 PTS25-F-SEAL KIT
 PTS32-F-SEAL KIT
 PTS40-F-SEAL KIT
 PTS50-F-SEAL KIT



PTS MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	PTS06-M-04G	1/4 BSPP	14.2	0.56	43.0	1.69	25.0	0.98
	PTS06-M-04N	1/4 NPTF	14.2	0.56	43.0	1.69	25.0	0.98
	PTS06-M-06S	9/16-18 UNF	14.2	0.56	43.0	1.69	25.0	0.98
10 (3/8)	PTS10-M-06G	3/8 BSPP	19.0	0.75	48.5	1.91	32.0	1.26
	PTS10-M-06N	3/8 NPTF	19.0	0.75	48.5	1.91	32.0	1.26
	PTS10-M-06S	9/16-18 UNF	19.0	0.75	48.5	1.91	32.0	1.26
12 (1/2)	PTS12-M-08G	1/2 BSPP	20.5	0.81	53.0	2.09	34.0	1.34
	PTS12-M-08N	1/2 NPTF	20.5	0.81	53.0	2.09	34.0	1.34
	PTS12-M-08S	3/4-16 UNF	20.5	0.81	53.0	2.09	34.0	1.34
19 (3/4)	PTS19-M-12G	3/4 BSPP	28.0	1.10	63.0	2.48	46.0	1.81
	PTS19-M-12N	3/4 NPTF	28.0	1.10	63.0	2.48	46.0	1.81
	PTS19-M-12S	1 1/16-12 UN	28.0	1.10	63.0	2.48	46.0	1.81
25 (1)	PTS25-M-16G	1 BSPP	31.3	1.23	72.5	2.85	50.0	1.97
	PTS25-M-16N	1 NPTF	31.3	1.23	72.5	2.85	50.0	1.97
	PTS25-M-16S	1 5/16-12 UN	31.3	1.23	72.5	2.85	50.0	1.97
32 (1 1/4)	PTS32-M-20G	1 1/4 BSPP	44.0	1.73	86.0	3.39	65.0	2.56
	PTS32-M-20N	1 1/4 NPTF	44.0	1.73	86.0	3.39	65.0	2.56
	PTS32-M-20S	1 5/8-12 UN	44.0	1.73	86.0	3.39	65.0	2.56
40 (1 1/2)	PTS40-M-24G	1 1/2 BSPP	53.5	2.11	95.0	3.74	80.0	3.15
	PTS40-M-24N	1 1/2 NPTF	53.5	2.11	95.0	3.74	80.0	3.15
	PTS40-M-24S	1 7/8-12 UN	53.5	2.11	95.0	3.74	80.0	3.15
50 (2)	PTS50-M-32G	2 BSPP	82.0	3.23	118.5	4.67	110.0	4.33
	PTS50-M-32N	2 NPTF	82.0	3.23	118.5	4.67	110.0	4.33
	PTS50-M-32S	2 1/2-12 UN	82.0	3.23	118.5	4.67	110.0	4.33

For all other configurations or thread types please contact the sales office.



Screw to connect high pressure couplings

SP, SPS Series



INTRODUCTION

Holmbury's SP Series screw to connect couplings are designed for heavy duty applications involving very high pressures and severe pressure pulses.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals
- Also available in AISI 316 (SPS Series) stainless steel

FEATURES

- Screw to connect design eliminates brinelling
- Can be connected with up to 50 bar (735 psi) residual pressure in the hydraulic circuit
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the SP and SPS Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Hydraulic jacks
- Hydraulic hammers
- Construction plant
- Mobile equipment
- Demolition
- Agricultural industries

SP, SPS PERFORMANCE CHARACTERISTICS

Body Size	SP06	SP10	SP12	SP19	SP25
	Pressure in bar - Flow in LPM				
	Pressure in PSI - Flow in GPM				
Maximum working pressure (Coupled)	950 13775	750 10875	750 10875	650 9425	450 6525
Burst pressure (Coupled)	3800 55100	3000 43500	3000 43500	2600 37700	1800 26100
Burst pressure (Male)	3650 52925	3000 43500	2950 42775	2520 36540	1800 26100
Burst pressure (Female)	3500 50750	2900 42050	3000 43500	2500 36250	1650 23925
Rated flow	3 0.8	23 6.1	45 12	106 28	189 50

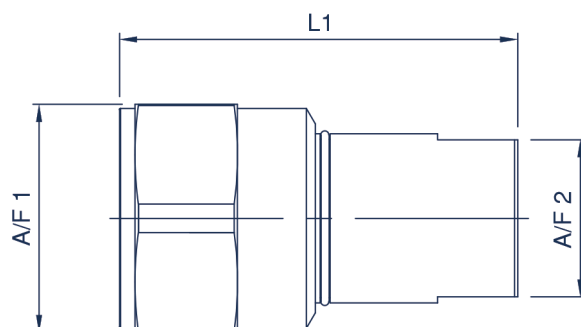
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
SP06-F-PLUG	SP06-M-CAP
SP10-F-PLUG	SP10-M-CAP
SP12-F-PLUG	SP12-M-CAP
SP19-F-PLUG	SP19-M-CAP
SP25-F-PLUG	SP25-M-CAP

Standard material is steel

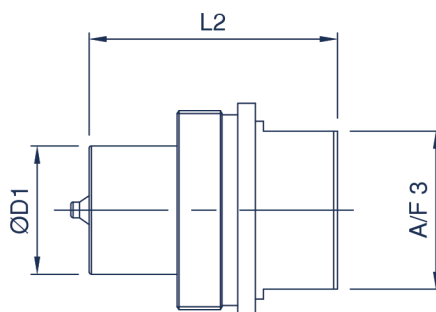
SEAL KITS

SP06-F-SEAL KIT
SP10-F-SEAL KIT
SP12-F-SEAL KIT
SP19-F-SEAL KIT
SP25-F-SEAL KIT



SP, SPS FEMALE COUPLING

Body Size	Part Number	Thread Size	A/F1		L1		A/F2	
			mm	inch	mm	inch	mm	inch
06 (1/4)	SP06-F-04G	1/4 BSPP	32.0	1.26	58.9	2.32	19.0	0.75
	SP06-F-04N	1/4 NPTF	32.0	1.26	58.9	2.32	19.0	0.75
10 (3/8)	SP10-F-06G	3/8 BSPP	36.0	1.42	66.5	2.62	22.0	0.87
	SP10-F-06N	3/8 NPTF	36.0	1.42	66.5	2.62	22.0	0.87
12 (1/2)	SP12-F-08G	1/2 BSPP	41.0	1.61	76.5	3.01	27.0	1.06
	SP12-F-08N	1/2 NPTF	41.0	1.61	76.5	3.01	27.0	1.06
19 (3/4)	SP19-F-12G	3/4 BSPP	50.0	1.97	89.5	3.52	35.0	1.38
	SP19-F-12N	3/4 NPTF	50.0	1.97	89.5	3.52	35.0	1.38
25 (1)	SP25-F-16G	1 BSPP	65.0	2.56	105.5	4.15	41.0	1.61
	SP25-F-16N	1 NPTF	65.0	2.56	105.5	4.15	41.0	1.61



SP, SPS MALE COUPLING

Body Size	Part Number	Thread Size	D1		L2		A/F3	
			mm	inch	mm	inch	mm	inch
06 (1/4)	SP06-M-04G	1/4 BSPP	15.0	0.59	36.0	1.42	19.0	0.75
	SP06-M-04N	1/4 NPTF	15.0	0.59	36.0	1.42	19.0	0.75
10 (3/8)	SP10-M-06G	3/8 BSPP	19.0	0.75	40.5	1.59	22.0	0.87
	SP10-M-06N	3/8 NPTF	19.0	0.75	40.5	1.59	22.0	0.87
12 (1/2)	SP12-M-08G	1/2 BSPP	22.0	0.87	49.0	1.93	27.0	1.06
	SP12-M-08N	1/2 NPTF	22.0	0.87	49.0	1.93	27.0	1.06
19 (3/4)	SP19-M-12G	3/4 BSPP	29.0	1.14	56.0	2.20	35.0	1.38
	SP19-M-12N	3/4 NPTF	29.0	1.14	56.0	2.20	35.0	1.38
25 (1)	SP25-M-16G	1 BSPP	36.0	1.42	66.0	2.60	41.0	1.61
	SP25-M-16N	1 NPTF	36.0	1.42	66.0	2.60	41.0	1.61

For all other configurations or thread types please contact the sales office.



Screw to connect tipper couplings

TC Series



INTRODUCTION

Holmbury's TC Series screw to connect tipper couplings are designed for use on tipper trucks. The female coupling has a wing nut sleeve which enables operators to connect the couplings by hand, even when there is low residual pressure in the line.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals

FEATURES

- Screw to connect design eliminates brinelling
- Wing nut sleeve design allows connection by hand
- Can be connected with up to 50 bar (735 psi) residual pressure in the hydraulic circuit
- Bidirectional flow
- Male has external thread for bulkhead mounting

ACCESSORIES

- Dust caps and plugs are available for the TC Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Tipper trucks
- Commercial vehicle trailers, agricultural equipment and construction plant
- Mobile plant

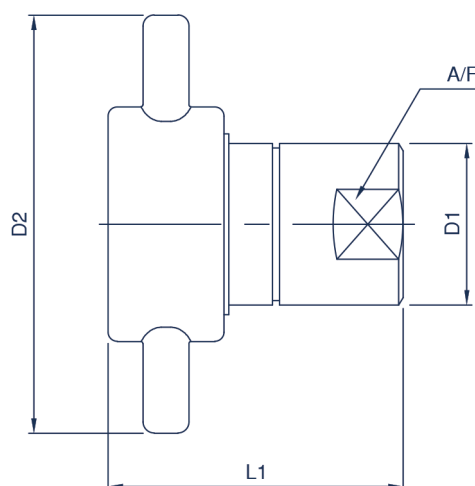
TC PERFORMANCE CHARACTERISTICS

Body Size	TC16	TC19
	Pressure in bar - Flow in LPM	
	Pressure in PSI - Flow in GPM	
Maximum working pressure (Coupled)	350	300
	5075	4350
Burst pressure (Coupled)	1,325	1,325
	19213	19213
Burst pressure (Male)	1,100	1,200
	15950	17400
Burst pressure (Female)	1,300	900
	18850	13050
Rated flow	106	189
	28	50

CAPS/PLUGS ACCESSORIES

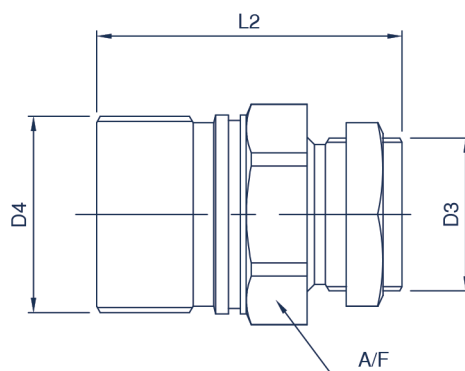
FEMALE PLUGS	MALE CAPS
TC16-F-PLUG	TC16-M-CAP
TC19-F-PLUG	TC19-M-CAP

Standard material is steel



TC FEMALE COUPLING

Body Size	Part Number	Thread Size	D2		L1		D1		A/F	
			mm	inch	mm	inch	mm	inch	mm	inch
19 (3/4)	TC16-F-12G	3/4 BSPP	115.4	4.54	78.0	3.07	37.0	1.46	33.0	1.30
25 (1)	TC19-F-16G	1 BSPP	115.4	4.54	83.0	3.27	44.0	1.73	40.0	1.57



TC MALE COUPLING

Body Size	Part Number	Thread Size	D4	L2		D3		A/F	
			(Thread size)	mm	inch	mm	inch	mm	inch
19 (3/4)	TC16-M-12G	3/4 BSPP	1 3/4-10	78.0	3.07	42.0	1.65	46.0	1.81
25 (1)	TC19-M-16G	1 BSPP	2 1/8-10	83.0	3.27	42.0	1.65	55.0	2.17

For all other configurations or thread types please contact the sales office.



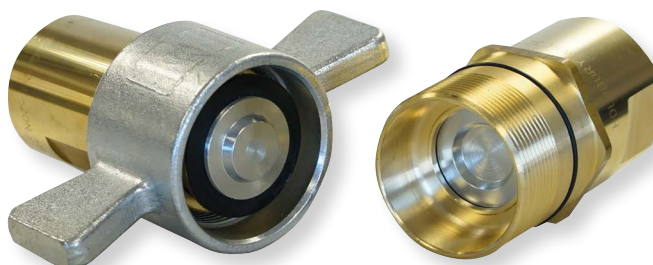
Screw to connect brass wing style couplings with steel nut

WSC Series



INTRODUCTION

Holmbury's WSC Series brass screw to connect couplings are designed to allow connection and disconnection by hand. The brass construction makes them the idea choice for water based applications.



CONSTRUCTION

- Brass body
- Wing nut carbon steel with trivalent plating
- Fitted with NBR seals

FEATURES

- Can be connected with 50 bar (735 psi) residual pressure in the hydraulic circuit
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and mounting flanges are available for the WSC Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Trailers
- Wet line kits
- Offshore/onshore

WSC PERFORMANCE CHARACTERISTICS

Body Size	WSC19	WSC25	WSC32	WSC40
	Pressure in bar - Flow in LPM			
	Pressure in PSI - Flow in GPM			
Maximum working pressure (Coupled)	210	210	190	175
	3045	3045	2755	2538
Burst pressure (Coupled)	650	650	650	525
	9425	9425	9425	7613
Burst pressure (Male)	650	650	650	525
	9425	9425	9425	7613
Burst pressure (Female)	600	600	600	475
	8700	8700	8700	6888
Rated flow	106	189	288	379
	28	50	76	100

CAPS/PLUGS ACCESSORIES

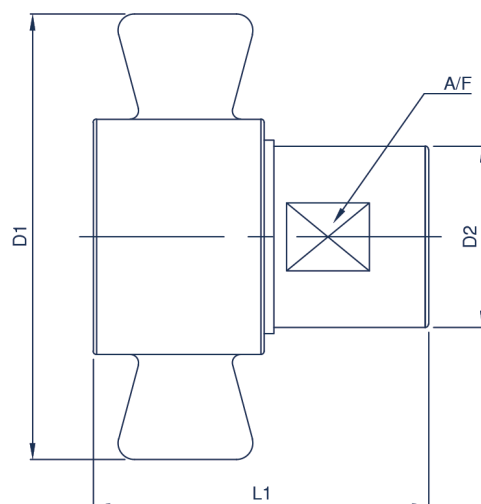
FEMALE PLUGS	MALE CAPS
WSC19-F-PLUG	WSC19-M-CAP
WSC25-F-PLUG	WSC25-M-CAP
WSC32-F-PLUG	WSC32-M-CAP
WSC40-F-PLUG	WSC40-M-CAP

Standard material is brass

FLANGE KITS

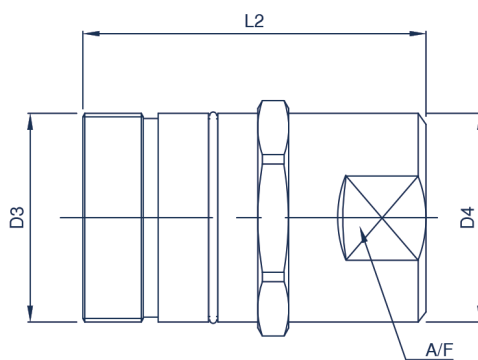
WSC19-M-FLANGE
WSC25-M-FLANGE
WSC32-M-FLANGE
WSC40-M-FLANGE

Standard material is plated carbon steel



WSC FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		D2		A/F	
			mm	inch	mm	inch	mm	inch	mm	inch
19 (3/4)	WSC19-F-08N	1/2 NPTF	103.0	4.06	78.5	3.09	31.7	1.25	29.5	1.16
	WSC19-F-08N-HN	1/2 NPTF	44.4	1.75	78.5	3.09	31.7	1.25	29.5	1.16
	WSC19-F-12N	3/4 NPTF	103.0	4.06	78.5	3.09	31.7	1.25	29.5	1.16
	WSC19-F-12N-HN	3/4 NPTF	44.4	1.75	78.5	3.09	31.7	1.25	29.5	1.16
25 (1)	WSC25-F-16N	1 NPTF	111.0	4.37	93.0	3.66	39.8	1.57	36.5	1.44
	WSC25-F-16N-HN	1 NPTF	54.0	2.13	93.0	3.66	39.8	1.57	36.5	1.44
32 (1 1/4)	WSC32-F-20N	1 1/4 NPTF	131.8	5.19	101.0	3.98	48.0	1.89	45.2	1.78
	WSC32-F-20N-HN	1 1/4 NPTF	63.5	2.50	101.0	3.98	48.0	1.89	45.2	1.78
40 (1 1/2)	WSC40-F-24N	1 1/2 NPTF	134.9	5.31	102.0	4.02	55.0	2.17	50.8	2.00
	WSC40-F-24N-HN	1 1/2 NPTF	70.0	2.76	102.0	4.02	55.0	2.17	50.8	2.00



WSC MALE COUPLING

Body Size	Part Number	Thread Size	D3	L2		D4		A/F	
			(Thread Size)	mm	inch	mm	inch	mm	inch
19 (3/4)	WSC19-M-08N	1/2 NPTF	1 1/2-12 UN	79.0	3.11	37.5	1.48	30.0	1.18
	WSC19-M-12N	3/4 NPTF	1 1/2-12 UN	79.0	3.11	37.5	1.48	30.0	1.18
25 (1)	WSC25-M-16N	1 NPTF	1 7/8-12 UN	90.0	3.54	44.2	1.74	40.0	1.57
32 (1 1/4)	WSC32-M-20N	1 1/4 NPTF	2 1/8-12 UN	94.0	3.70	53.0	2.09	47.7	1.88
40 (1 1/2)	WSC40-M-24N	1 1/2 NPTF	2 1/2-12 UN	104.6	4.12	62.7	2.47	57.2	2.25

For all other configurations or thread types please contact the sales office.



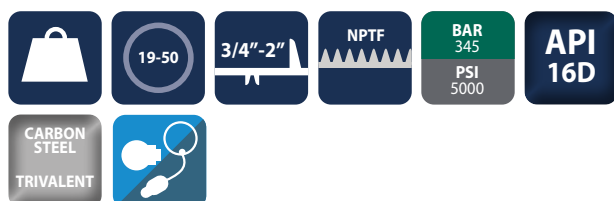
Screw to connect heavy duty couplings

LC Series



INTRODUCTION

Holmbury's LC Series heavy duty, screw to connect couplings are designed primarily for heavy duty applications.



CONSTRUCTION

- Carbon steel with trivalent plating
- Cast steel heavy duty sleeve
- Fitted with NBR seals

FEATURES

- API 16D certified and Lloyds approved for BOP applications in sizes 19 to 32
- Inspection hole enables check of complete connection between both halves
- Screw to connect design eliminates brinelling
- Hard wearing heavy duty sleeve
- Bidirectional flow

ACCESSORIES

- Dust caps, plugs and seal kits are available for the LC Series

SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Heavy duty applications
- Offshore/onshore
- Construction

LC PERFORMANCE CHARACTERISTICS

Body Size	LC19	LC25	LC32	LC40	LC50
	Pressure in bar - Flow in LPM				
	Pressure in PSI - Flow in GPM				
Maximum working pressure (Coupled)	345 5000	345 5000	345 5000	345 5000	345 5000
Burst pressure (Coupled)	1380 20015	1380 20015	1050 15225	1050 15225	1050 15225
Burst pressure (Male)	1380 20015	1380 20015	1050 15225	1050 15225	1050 15225
Burst pressure (Female)	1380 20015	1380 20015	1050 15225	1050 15225	1050 15225
Rated flow	106 28	189 50	288 76	379 100	757 200

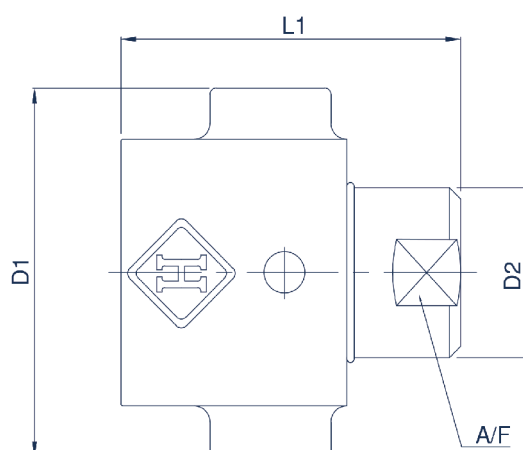
CAPS/PLUGS ACCESSORIES

FEMALE PLUGS	MALE CAPS
LC19-F-PLUG	LC19-M-CAP
LC25-F-PLUG	LC25-M-CAP
LC32-F-PLUG	LC32-M-CAP
LC40-F-PLUG	LC40-M-CAP
LC50-F-PLUG	LC50-M-CAP

Standard material is aluminium

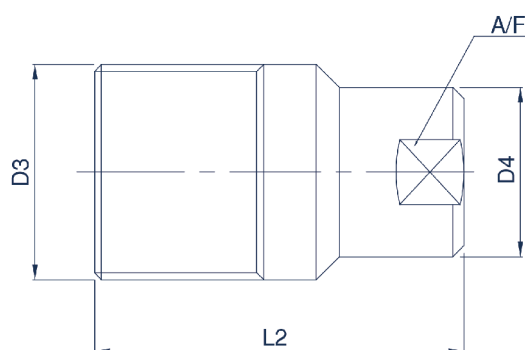
SEAL KITS

LC19-M-SEAL KIT
LC25-M-SEAL KIT
LC32-M-SEAL KIT
LC40-M-SEAL KIT
LC50-M-SEAL KIT



LC FEMALE COUPLING

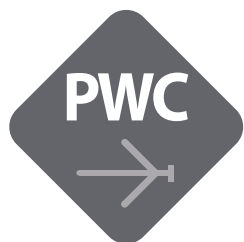
Body Size	Part Number	Thread Size	D1		L1		D2		A/F	
			mm	inch	mm	inch	mm	inch	mm	inch
19 (3/4)	LC19-F-12N	3/4 NPTF	77.0	3.03	71.1	2.80	35.0	1.38	32.0	1.26
	LC19-F-12N-BOP	3/4 NPTF	77.0	3.03	71.1	2.80	35.0	1.38	32.0	1.26
25 (1)	LC25-F-16N	1 NPTF	102.5	4.04	88.0	3.46	45.0	1.77	41.3	1.63
	LC25-F-16N-BOP	1 NPTF	102.5	4.04	88.0	3.46	45.0	1.77	41.3	1.63
32 (1 1/4)	LC32-F-20N	1 1/4 NPTF	114.8	4.52	111.8	4.40	54.4	2.14	50.8	2.00
	LC32-F-20N-BOP	1 1/4 NPTF	114.8	4.52	111.8	4.40	54.4	2.14	50.8	2.00
40 (1 1/2)	LC40-F-24N	1 1/2 NPTF	126.8	4.99	130.7	5.15	63.5	2.50	60.3	2.37
50 (2)	LC50-F-32N	2 NPTF	171.5	6.75	154.6	6.09	82.5	3.25	74.6	2.94



LC MALE COUPLING

Body Size	Part Number	Thread Size	D3		L2		D4		A/F	
			mm	inch	mm	inch	mm	inch	mm	inch
19 (3/4)	LC19-M-12N	3/4 NPTF	44.5	1.75	83.0	3.27	35.4	1.39	32.0	1.26
	LC19-M-12N-BOP	3/4 NPTF	44.5	1.75	83.0	3.27	35.4	1.39	32.0	1.26
25 (1)	LC25-M-16N	1 NPTF	57.0	2.24	106.0	4.17	45.0	1.77	41.3	1.63
	LC25-M-16N-BOP	1 NPTF	57.0	2.24	106.0	4.17	45.0	1.77	41.3	1.63
32 (1 1/4)	LC32-M-20N	1 1/4 NPTF	66.5	2.62	136.0	5.35	54.4	2.14	50.8	2.00
	LC32-M-20N-BOP	1 1/4 NPTF	66.5	2.62	136.0	5.35	54.4	2.14	50.8	2.00
40 (1 1/2)	LC40-M-24N	1 1/2 NPTF	82.5	3.25	152.0	5.98	64.0	2.52	60.3	2.37
50 (2)	LC50-M-32N	2 NPTF	101.5	4.00	179.0	7.05	82.5	3.25	74.6	2.94

For all other configurations or thread types please contact the sales office.



PRESSURE WASHER COUPLINGS

Pressure washer couplings can accommodate high flow rates with minimal pressure drops. Female coupling has a double 'O' ring sealing arrangement. Valveless design means careful attention must be given to potential fluid loss during disconnection. Suitable only for non-hazardous media only.





Valveless free flow couplings for commercial and industrial washers.
Used in multiple applications across a wide range of markets.



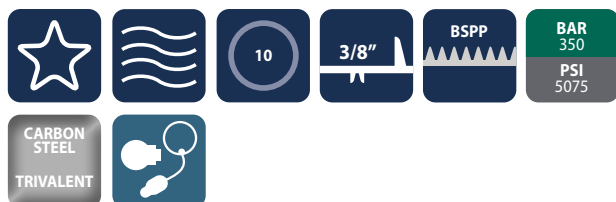
Free flow, valveless pressure washer couplings

PWC Series



INTRODUCTION

Holmbury's PWC Series couplings are able to accommodate high flow rates and minimal pressure drops. The couplings are valveless, hence when disconnected any fluid in the system can escape. This makes these couplings suitable for the transmission of non-hazardous fluids only.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with FKM seals
- Available in AISI 316 stainless steel (See PWS Series)

FEATURES

- Valveless design allows for high flow rates and minimal pressure drop characteristics
- Female half has double 'O' ring sealing arrangement
- Bidirectional flow

ACCESSORIES

- Seal kits are available for the PWC (S) Series

SPECIFICATIONS

- Operating temperatures (with FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Designed for use in pressure washer systems and systems containing non-hazardous fluids

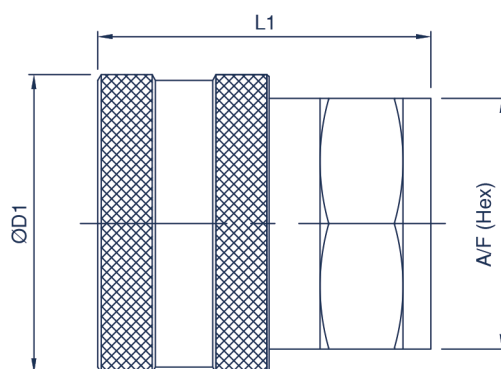
PWC PERFORMANCE CHARACTERISTICS

Body Size	PWC10
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure (Coupled)	350
	5075
Burst pressure (Coupled)	1500
	21750
Rated flow	23
	6.1

SEAL KITS

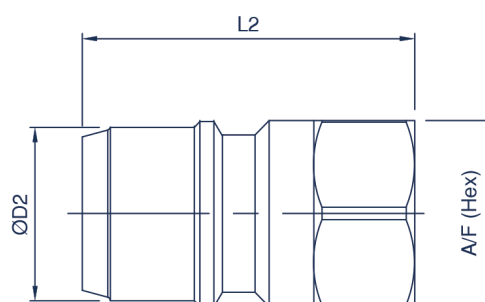
PWC10-F-SEAL KIT

Standard material is FKM



PWC FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	PWC10-F-06G	3/8 BSPP	35.0	1.38	39.0	1.54	30.0	1.18
	PWC10-F-06N	3/8 NPTF	35.0	1.38	39.0	1.54	30.0	1.18



PWC MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	PWC10-M-06G	3/8 BSPP	20.0	0.79	38.0	1.50	22.0	0.87
	PWC10-M-06N	3/8 NPTF	20.0	0.79	38.0	1.50	22.0	0.87

For all other configurations or thread types please contact the sales office.



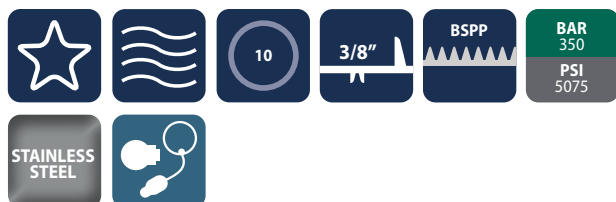
Free flow, valveless pressure washer couplings

PWS Series



INTRODUCTION

Holmbury's PWS Series couplings are able to accommodate high flow rates and minimal pressure drops. The couplings are valveless, hence when disconnected any fluid in the system can escape. This makes these couplings suitable for the transmission of non-hazardous fluids only.



CONSTRUCTION

- AISI 316 stainless steel
- Fitted with FKM seals
- Also available in carbon steel (See PWC Series)

FEATURES

- Valveless design allows for high flow rates and minimal pressure drop characteristics
- Female half has double 'O' ring sealing arrangement
- Bidirectional flow

ACCESSORIES

- Seal kits are available for the PWS (C) Series

SPECIFICATIONS

- Operating temperatures (with FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- Designed for use in pressure washer systems and systems containing non-hazardous fluids

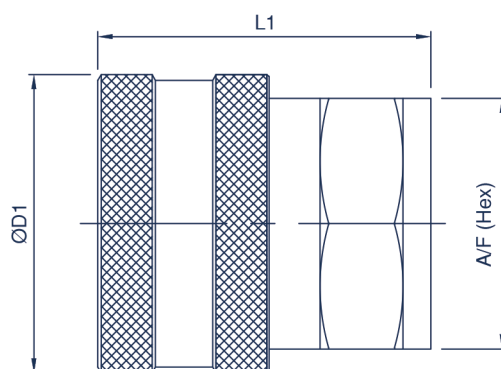
PWS PERFORMANCE CHARACTERISTICS

Body Size	PWS10
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure (Coupled)	350
	5075
Burst pressure (Coupled)	1500
	21750
Rated flow	23
	6.1

SEAL KITS

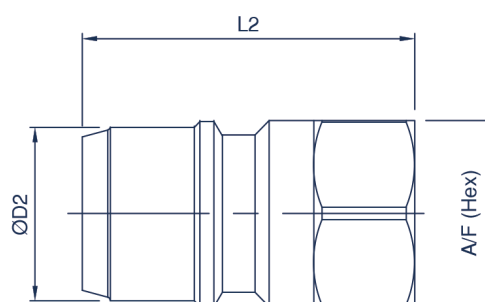
PWC10-F-SEAL KIT

Standard material is FKM



PWS FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	PWS10-F-06G	3/8 BSPP	35.0	1.38	39.0	1.54	30.0	1.18
	PWS10-F-06N	3/8 NPTF	35.0	1.38	39.0	1.54	30.0	1.18



PWS MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
10 (3/8)	PWS10-M-06G	3/8 BSPP	20.0	0.79	38.0	1.50	22.0	0.87
	PWS10-M-06N	3/8 NPTF	20.0	0.79	38.0	1.50	22.0	0.87

For all other configurations or thread types please contact the sales office.



Free flow, valveless pressure washer couplings

HFB, HFS, HFC Series



INTRODUCTION

Holmbury's HFB Series brass couplings are able to accommodate high flow rates and minimal pressure drops. The couplings are valveless, hence when disconnected any fluid in the system can escape. Suitable for non-hazardous fluids only.



CONSTRUCTION

- Brass body
- Fitted with NBR seals
- Available in carbon (HFC) and stainless steel (HFS) on request

FEATURES

- Valveless design allows for high flow rates and minimal pressure drop characteristics
- Bidirectional flow

ACCESSORIES

- Seal kits available for the HFB Series

SPECIFICATIONS

- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- Designed for use in pressure washer systems and systems containing non-hazardous fluids
- Carpet cleaners
- Steam washers
- Coolant lines
- Any non valved application

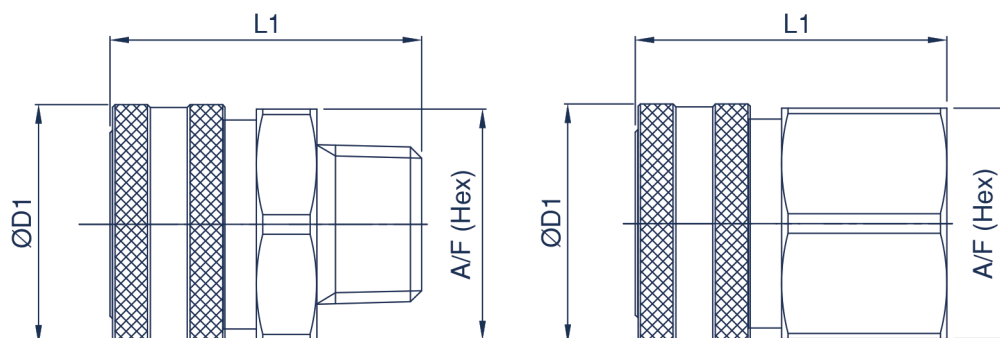
HFB PERFORMANCE CHARACTERISTICS

Body Size	HFB06	HFB10	HFB12	HFB19	HFB25
	Pressure in bar - Flow in LPM				
	Pressure in PSI - Flow in GPM				
Brass working pressure	360	185	150	120	85
(Coupled)	5220	2683	2175	1740	1233
Brass coupling/ steel nipple working pressure	380	240	185	185	140
(Coupled)	5510	3480	2683	2683	2030
SS working pressure	460	380	210	210	120
(Coupled)	6670	5510	3045	3045	1740
Rated flow	12	23	45	106	189
	3.17	6.1	12	28	50

SEAL KITS

HFB06-F-SEAL KIT
HFB10-F-SEAL KIT
HFB12-F-SEAL KIT
HFB19-F-SEAL KIT
HFB25-F-SEAL KIT

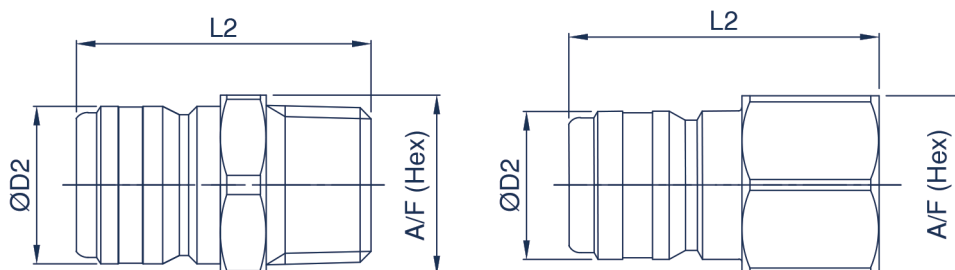
HFB, HFS, HFC Series



HFB FEMALE COUPLING

Body Size	Part Number	Thread Size	D1		L1		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	HFB06-F-04N	1/4 NPTF	24.0	0.94	37.3	1.47	20.5	0.81
	HFB06-F-04NM	1/4 NPTF	24.0	0.94	44.0	1.73	20.5	0.81
10 (3/8)	HFB10-F-06N	3/8 NPTF	28.0	1.10	38.0	1.50	22.2	0.87
	HFB10-F-06NM	3/8 NPTF	28.0	1.10	44.0	1.73	25.4	1.00
12 (1/2)	HFB12-F-08N	1/2 NPTF	33.5	1.32	41.3	1.63	28.5	1.12
	HFB12-F-08NM	1/2 NPTF	33.5	1.32	49.6	1.95	29.0	1.14
19 (3/4)	HFB19-F-12N	3/4 NPTF	41.5	1.63	53.2	2.09	38.0	1.50
	HFB19-F-12NM	3/4 NPTF	41.5	1.63	56.8	2.24	38.0	1.50
25 (1)	HFB25-F-16N	1 NPTF	51.0	2.01	53.0	2.09	44.5	1.75
	HFB25-F-16NM	1 NPTF	51.0	2.01	66.3	2.61	44.5	1.75

HFB brass models listed. Substitute HFS for 316 stainless steel and HFC for carbon steel models



HFB MALE COUPLING

Body Size	Part Number	Thread Size	D2		L2		A/F	
			mm	inch	mm	inch	mm	inch
06 (1/4)	HFB06-M-04N	1/4 NPTF	11.8	0.46	34.0	1.34	17.5	0.69
	HFB06-M-04NM	1/4 NPTF	11.8	0.46	38.0	1.50	14.3	0.56
10 (3/8)	HFB10-M-06N	3/8 NPTF	14.9	0.59	40.0	1.57	20.6	0.81
	HFB10-M-06NM	3/8 NPTF	14.9	0.59	44.0	1.73	17.5	0.69
12 (1/2)	HFB12-M-08N	1/2 NPTF	18.0	0.71	44.6	1.76	25.4	1.00
	HFB12-M-08NM	1/2 NPTF	18.0	0.71	48.6	1.91	22.0	0.87
19 (3/4)	HFB19-M-12N	3/4 NPTF	24.9	0.98	52.0	2.05	30.0	1.18
	HFB19-M-12NM	3/4 NPTF	24.9	0.98	57.0	2.24	27.0	1.06
25 (1)	HFB25-M-16N	1 NPTF	33.3	1.31	59.6	2.35	38.0	1.50
	HFB25-M-16NM	1 NPTF	33.3	1.31	61.0	2.40	34.0	1.34

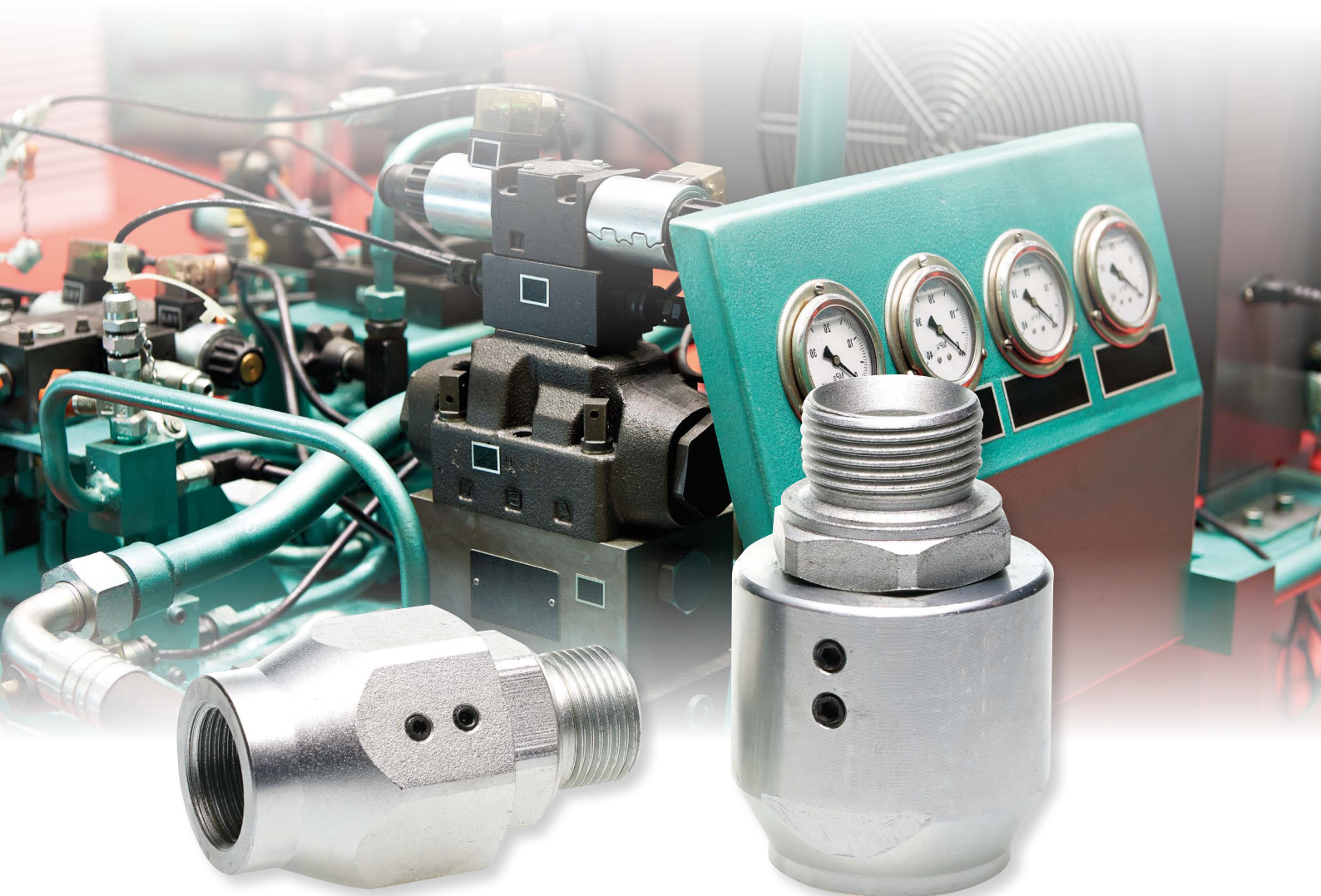
For all other configurations or thread types please contact the sales office.



ROTARY COUPLINGS AND SWIVEL JOINTS

Rotary couplings and swivel joints are designed for use on hydraulic lines subject to torsional stress. Can also be used on hose reel applications.

The correct use of rotary couplings will increase the life of hydraulic lines.



CRIL SERIES**130****CR90 Series****132****SSIL Series****134****SS90 SERIES****136****Est.****1984**

Industrial range of in-line and 90° rotary and swivel joint couplings for multiple applications



Carbon steel in-line swivel joint couplings

CRIL Series



INTRODUCTION

Holmbury's CRIL Series carbon steel in-line swivel joint couplings are designed for in-line use on hydraulic circuits. Using a rotary coupling in the hydraulic line stops the hose twisting, limiting stress and increasing hose lifespan.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals
- Also available in AISI 316 stainless steel (See SSIL Series, swivel joint coupling)

FEATURES

- Reduces torsional forces
- Can also be used in applications that are required to rotate but not under pressure, such as hose reels
- Spindle is carried on a roller bearing and has a low friction shaft seal allowing rotation at maximum pressure with low torque

ACCESSORIES

- Not applicable

SPECIFICATIONS

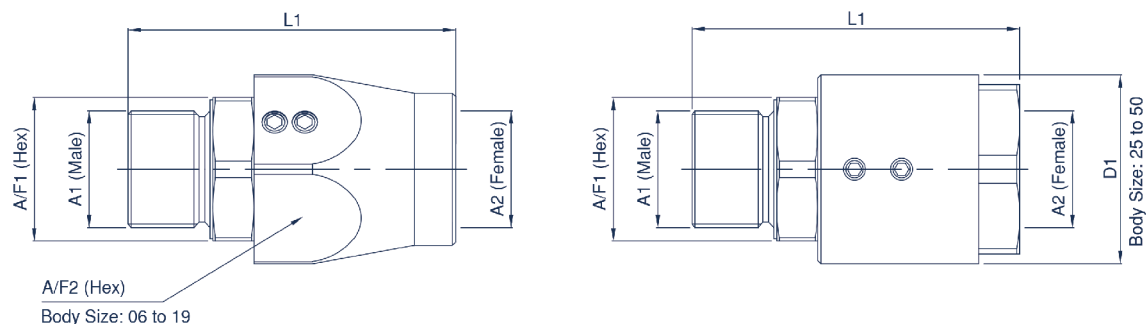
- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- General hydraulic systems
- Machine tools
- Test equipment
- Agricultural
- Mobile hydraulics

CRIL PERFORMANCE CHARACTERISTICS

Body Size	CRIL06	CRIL10	CRIL12	CRIL19	CRIL25	CRIL32	CRIL40	CRIL50
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure	400	400	360	310	280	250	210	180
	5800	5800	5220	4495	4060	3625	3045	2610
Maximum flow rate	25	45	80	120	150	200	250	300
	6.6	11.9	21.1	31.7	39.6	52.8	66.0	79.3
Maximum rotational speed (RPM)	500	400	370	280	230	200	170	140



CRIL SERIES

Body Size	Part Number	A/F1		A1 x A2 Thread	L1		A/F2 or D1	
		mm	inch		mm	inch	mm	inch
06 (1/4)	CRIL-06-04GM-04G	19.0	0.75	1/4 BSPP x BSPP	66.0	2.60	30.0	1.18
	CRIL-06-04JM-04S	19.0	0.75	7/16-20 JIC x SAE ORB	65.0	2.56	30.0	1.18
	CRIL-06-04NM-04N	19.0	0.75	1/4 NPTF x NPTF	66.0	2.60	30.0	1.18
10 (3/8)	CRIL-10-06GM-06G	24.0	0.94	3/8 BSPP x BSPP	69.0	2.72	34.0	1.34
	CRIL-10-06JM-06S	24.0	0.94	9/16-18 JIC x SAE ORB	66.0	2.60	34.0	1.34
	CRIL-10-06NM-06N	24.0	0.94	3/8 NPTF x NPTF	69.0	2.72	34.0	1.34
12 (1/2)	CRIL-12-08GM-08G	27.0	1.06	1/2 BSPP x BSPP	76.0	2.99	36.0	1.42
	CRIL-12-08JM-08S	27.0	1.06	3/4-16 JIC x SAE ORB	74.0	2.91	36.0	1.42
	CRIL-12-10JM-10S	27.0	1.06	7/8-14 JIC x SAE ORB	76.0	2.99	36.0	1.42
	CRIL-12-08NM-08N	27.0	1.06	1/2 NPTF x NPTF	76.0	2.99	36.0	1.42
19 (3/4)	CRIL-19-12GM-12G	34.0	1.34	3/4 BSPP x BSPP	78.5	3.09	46.0	1.81
	CRIL-19-12JM-12S	34.0	1.34	1 1/16-12 JIC x SAE ORB	81.0	3.19	46.0	1.81
	CRIL-19-12NM-12N	34.0	1.34	3/4 NPTF x NPTF	78.5	3.09	46.0	1.81
25 (1)	CRIL-25-16GM-16G	41.0	1.61	1 BSPP x BSPP	92.5	3.64	59.0	2.32
	CRIL-25-16JM-16S	41.0	1.61	1 5/16-12 JIC x SAE ORB	90.0	3.54	59.0	2.32
	CRIL-25-16NM-16N	41.0	1.61	1 NPTF x NPTF	92.5	3.64	59.0	2.32
32 (1 1/4)	CRIL-32-20GM-20G	50.0	1.97	1 1/4 BSPP x BSPP	98.0	3.86	59.0	2.32
	CRIL-32-20JM-20S	50.0	1.97	1 5/8-12 JIC x SAE ORB	98.3	3.87	59.0	2.32
	CRIL-32-20NM-20N	50.0	1.97	1 1/4 NPTF x NPTF	98.0	3.86	59.0	2.32
40 (1 1/2)	CRIL-40-24GM-24G	55.0	2.17	1 1/2 BSPP x BSPP	107.0	4.21	69.0	2.72
	CRIL-40-24JM-24S	55.0	2.17	1 7/8-12 JIC x SAE ORB	126.6	4.98	69.0	2.72
	CRIL-40-24NM-24N	55.0	2.17	1 1/2 NPTF x NPTF	107.0	4.21	69.0	2.72
50 (2)	CRIL-50-32GM-32G	70.0	2.76	2 BSPP x BSPP	118.0	4.65	84.0	3.31
	CRIL-50-32JM-32S	70.0	2.76	2 1/2-12 JIC x SAE ORB	175.6	6.91	84.0	3.31
	CRIL-50-32NM-32N	70.0	2.76	2 NPTF x NPTF	118.0	4.65	84.0	3.31

For all other configurations or thread types please contact the sales office.



In-line and 90° rotary couplings

CR90 Series



INTRODUCTION

Holmbury's CR90 Series 90° rotary couplings are designed to reduce torsional stress caused by rotation of hose.



CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals
- Also available in AISI 316 stainless steel (See SS90 Series, swivel joint)

FEATURES

- Reduces torsional forces
- Can also be used in applications that are required to rotate but not under pressure, such as hose reels
- Spindle is carried on a roller bearing and has a low friction shaft seal that can rotate at maximum pressure with low torque



ACCESSORIES

- Not applicable

SPECIFICATIONS

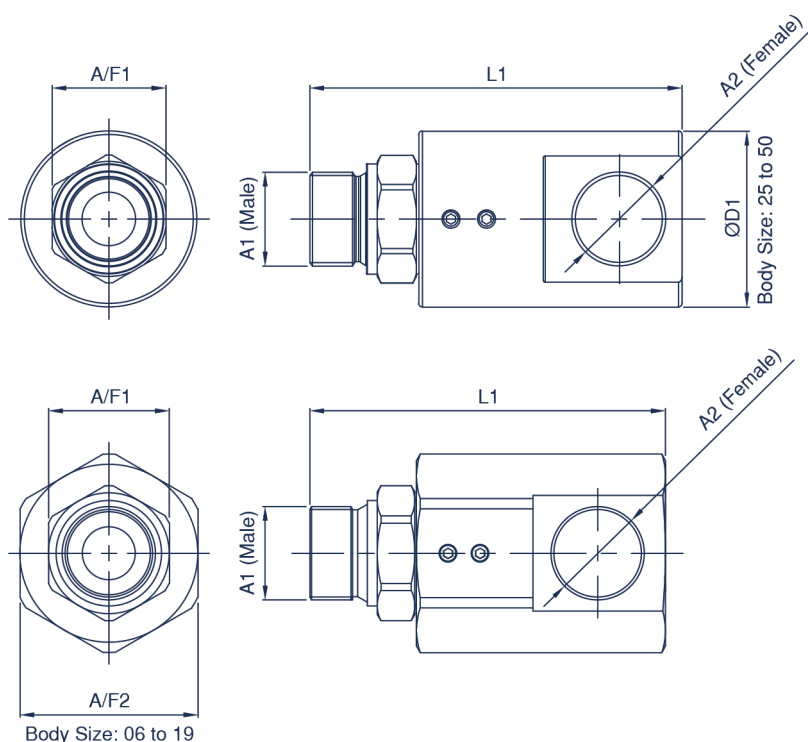
- Operating temperatures (with NBR seals): -40°C (-40°F) to 106°C (223°F)

APPLICATIONS

- General hydraulic systems
- Machine tools
- Test equipment
- Agricultural
- Mobile hydraulics

CR90 PERFORMANCE CHARACTERISTICS

Body Size	CR9006	CR9010	CR9012	CR9019	CR9025	CR9032	CR9040	CR9050
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure	400	400	360	310	280	250	210	180
	5800	5800	5220	4495	4060	3625	3045	2610
Maximum flow rate	25	45	80	120	150	200	250	300
	6.6	11.9	21.1	31.7	39.6	52.8	66.0	79.3
Maximum rotational speed (RPM)	500	400	370	280	230	200	170	140



CR90 SERIES

Body Size	Part Number	A/F1		A1 x A2 Thread	L1		A/F2 or D1	
		mm	inch		mm	inch	mm	inch
06 (1/4)	CR90-06-04GM-04G	19.0	0.75	1/4 BSPP x BSPP	72.0	2.83	30.0	1.18
	CR90-06-04JM-04S	19.0	0.75	7/16-20 JIC x SAE ORB	71.0	2.80	30.0	1.18
	CR90-06-04NM-04N	19.0	0.75	1/4 NPTF x NPTF	72.0	2.83	30.0	1.18
10 (3/8)	CR90-10-06GM-06G	24.0	0.94	3/8 BSPP x BSPP	79.0	3.11	34.0	1.34
	CR90-10-06JM-06S	24.0	0.94	9/16-18 JIC x SAE ORB	77.0	3.03	34.0	1.34
	CR90-10-06NM-06N	24.0	0.94	3/8 NPTF x NPTF	79.0	3.11	34.0	1.34
12 (1/2)	CR90-12-08GM-08G	27.0	1.06	1/2 BSPP x BSPP	90.0	3.54	36.0	1.42
	CR90-12-08JM-08S	27.0	1.06	3/4-16 JIC x SAE ORB	88.0	3.46	36.0	1.42
	CR90-12-10JM-10S	27.0	1.06	7/8-14 JIC x SAE ORB	90.0	3.54	36.0	1.42
	CR90-12-08NM-08N	27.0	1.06	1/2 NPTF x NPTF	90.0	3.54	36.0	1.42
19 (3/4)	CR90-19-12GM-12G	34.0	1.34	3/4 BSPP x BSPP	100.0	3.94	46.0	1.81
	CR90-19-12JM-12S	34.0	1.34	1 1/16-12 JIC x SAE ORB	102.0	4.02	46.0	1.81
	CR90-19-12NM-12N	34.0	1.34	3/4 NPTF x NPTF	100.0	3.94	46.0	1.81
25 (1)	CR90-25-16GM-16G	41.0	1.61	1 BSPP x BSPP	123.0	4.84	59.0	2.32
	CR90-25-16JM-16S	41.0	1.61	1 5/16-12 JIC x SAE ORB	121.0	4.76	59.0	2.32
	CR90-25-16NM-16N	41.0	1.61	1 NPTF x NPTF	123.0	4.84	59.0	2.32
32 (1 1/4)	CR90-32-20GM-20G	50.0	1.97	1 1/4 BSPP x BSPP	134.0	5.28	78.0	3.07
	CR90-32-20JM-20S	50.0	1.97	1 5/8-12 JIC x SAE ORB	137.3	5.41	78.0	3.07
	CR90-32-20NM-20N	50.0	1.97	1 1/4 NPTF x NPTF	134.0	5.28	78.0	3.07
40 (1 1/2)	CR90-40-24GM-24G	55.0	2.17	1 1/2 BSPP x BSPP	138.0	5.43	89.0	3.50
	CR90-40-24JM-24S	55.0	2.17	1 7/8-12 JIC x SAE ORB	142.5	5.61	89.0	3.50
	CR90-40-24NM-24N	55.0	2.17	1 1/2 NPTF x NPTF	138.0	5.43	89.0	3.50
50 (2)	CR90-50-32GM-32G	70.0	2.76	2 BSPP x BSPP	159.0	6.26	98.0	3.86
	CR90-50-32JM-32S	70.0	2.76	2 1/2-12 JIC x SAE ORB	166.5	6.56	98.0	3.86
	CR90-50-32NM-32N	70.0	2.76	2 NPTF x NPTF	159.0	6.26	98.0	3.86

For all other configurations or thread types please contact the sales office.



Stainless steel in-line swivel joint couplings

SSIL Series



INTRODUCTION

Holmbury's SSIL Series stainless steel in-line swivel joint couplings are designed for in-line use on hydraulic circuits. Using a rotary coupling in the hydraulic line stops the hose twisting, limiting stress and increasing hose lifespan.



CONSTRUCTION

- AISI 316 stainless steel
- Fitted with FKM seals
- Also available in carbon steel (See CRIL Series, swivel joint coupling)

FEATURES

- Reduces torsional forces
- Can also be used in applications that are required to rotate but not under pressure, such as hose reels
- Spindle is carried on a roller bearing and has a low friction shaft seal that can rotate at maximum pressure with low torque

ACCESSORIES

- Not applicable

SPECIFICATIONS

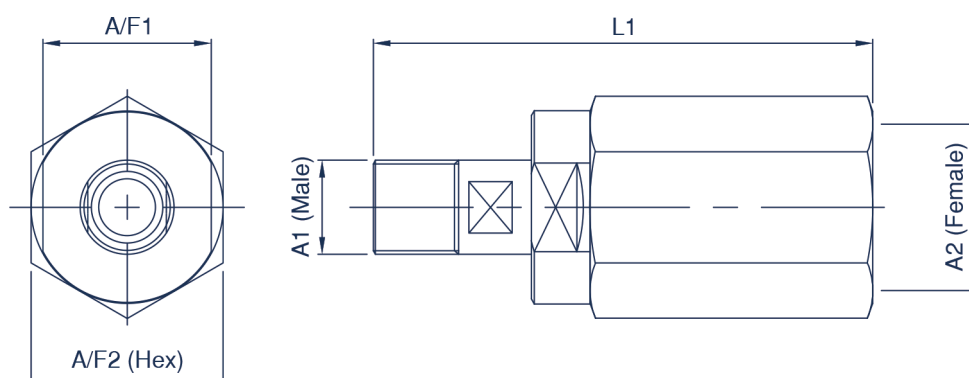
- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

APPLICATIONS

- General hydraulic systems
- Machine tools
- Test equipment
- Offshore/onshore
- Mobile hydraulics

SSIL PERFORMANCE CHARACTERISTICS

Body Size	SSIL06	SSIL10	SSIL12	SSIL19	SSIL25	SSIL32	SSIL40	SSIL50
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure	350	300	300	250	250	180	150	150
	5075	4350	4350	3625	3625	2610	2175	2175
Maximum flow rate	25	45	80	120	150	200	250	300
	6.6	11.9	21.1	31.7	39.6	52.8	66.0	79.3
Maximum rotational speed (RPM)	10	10	10	10	10	10	10	10



SSIL SERIES

Body Size	Part Number	A/F1		A1 x A2 Thread	L1		A/F2	
		mm	inch		mm	inch	mm	inch
06 (1/4)	SSIL-06-04GM-04G	24.0	0.94	1/4 BSPP x BSPP	75.0	2.95	27.0	1.06
	SSIL-06-04NM-04N	24.0	0.94	1/4 NPTF x NPTF	75.0	2.95	27.0	1.06
10 (3/8)	SSIL-10-06GM-06G	30.0	1.18	3/8 BSPP x BSPP	88.0	3.46	34.0	1.34
	SSIL-10-06NM-06N	30.0	1.18	3/8 NPTF x NPTF	88.0	3.46	34.0	1.34
12 (1/2)	SSIL-12-08GM-08G	32.0	1.26	1/2 BSPP x BSPP	101.0	3.98	36.0	1.42
	SSIL-12-08NM-08N	32.0	1.26	1/2 NPTF x NPTF	101.0	3.98	36.0	1.42
19 (3/4)	SSIL-19-12GM-12G	40.0	1.57	3/4 BSPP x BSPP	110.0	4.33	45.0	1.77
	SSIL-19-12NM-12N	40.0	1.57	3/4 NPTF x BSPP	110.0	4.33	45.0	1.77
25 (1)	SSIL-25-16GM-16G	50.0	1.97	1 BSPP x BSPP	124.0	4.88	55.0	2.17
	SSIL-25-16NM-16N	50.0	1.97	1 NPTF x NPTF	124.0	4.88	55.0	2.17
32 (1 1/4)	SSIL-32-20GM-20G	55.0	2.17	1 1/4 BSPP x BSPP	129.0	5.08	60.0	2.36
	SSIL-32-20NM-20N	55.0	2.17	1 1/4 NPTF x NPTF	129.0	5.08	60.0	2.36
40 (1 1/2)	SSIL-40-24GM-24G	68.0	2.68	1 1/2 BSPP x BSPP	138.0	5.43	75.0	2.95
	SSIL-40-24NM-24N	68.0	2.68	1 1/2 NPTF x NPTF	138.0	5.43	75.0	2.95
50 (2)	SSIL-50-32GM-32G	80.0	3.15	2 BSPP x BSPP	149.0	5.87	85.0	3.35
	SSIL-50-32NM-32N	80.0	3.15	2 NPTF x NPTF	149.0	5.87	85.0	3.35

For all other configurations or thread types please contact the sales office.



Stainless steel 90° swivel joint couplings

SS90 Series



INTRODUCTION

Holmbury's SS90 Series stainless steel 90° swivel joint couplings are designed for use on hydraulic lines that may be subject to torsional stress caused by rotation of hose.



CONSTRUCTION

- AISI 316 stainless steel
- Fitted with FKM seals
- Also available in carbon steel as rotary coupling (See CR90 Series)

FEATURES

- Reduces torsional forces
- Can also be used in applications that are required to rotate but not under pressure, such as hose reels
- Spindle is carried on a roller bearing and has a low friction shaft seal that can rotate at maximum pressure with low torque

ACCESSORIES

- Not applicable

SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

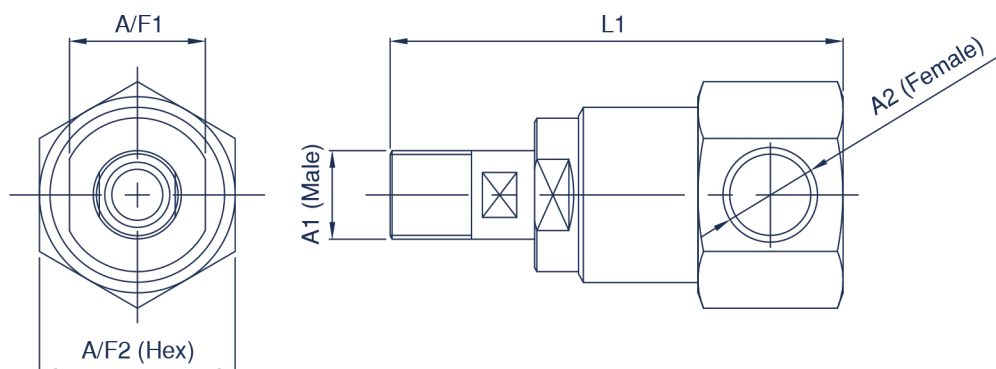
APPLICATIONS

- General hydraulic systems
- Machine tools
- Test equipment
- Offshore/onshore
- Mobile hydraulics

SS90 PERFORMANCE CHARACTERISTICS

Body Size	SS9006	SS9010	SS9012	SS9019	SS9025	SS9032	SS9040	SS9050
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure	350 5075	300 4350	300 4350	250 3625	250 3625	180 2610	150 2175	150 2175
Maximum flow rate	25 6.6	45 11.9	80 21.1	120 31.7	150 39.6	200 52.8	250 66.0	300 79.3
Maximum rotational speed (RPM)	10	10	10	10	10	10	10	10

SS90 Series



SS90 SERIES

Body Size	Part Number	A/F1		A1 x A2 Thread	L1		A/F2	
		mm	inch		mm	inch	mm	inch
06 (1/4)	SS90-06-04GM-04G	21.0	0.83	1/4 BSPP x BSPP	78.0	3.07	32.0	1.26
	SS90-06-04NM-04N	21.0	0.83	1/4 NPTF x NPTF	78.0	3.07	32.0	1.26
10 (3/8)	SS90-10-06GM-06G	27.0	1.06	3/8 BSPP x BSPP	98.0	3.86	36.0	1.42
	SS90-10-06NM-06N	27.0	1.06	3/8 NPTF x NPTF	98.0	3.86	36.0	1.42
12 (1/2)	SS90-12-08GM-08G	32.0	1.26	1/2 BSPP x BSPP	106.0	4.17	46.0	1.81
	SS90-12-08NM-08N	32.0	1.26	1/2 NPTF x NPTF	106.0	4.17	46.0	1.81
19 (3/4)	SS90-19-12GM-12G	37.0	1.46	3/4 BSPP x BSPP	118.0	4.65	50.0	1.97
	SS90-19-12NM-12N	37.0	1.46	3/4 NPTF x NPTF	118.0	4.65	50.0	1.97
25 (1)	SS90-25-16GM-16G	46.0	1.81	1 BSPP x BSPP	142.0	5.59	60.0	2.36
	SS90-25-16NM-16N	46.0	1.81	1 NPTF x NPTF	142.0	5.59	60.0	2.36
32 (1 1/4)	SS90-32-20GM-20G	55.0	2.17	1 1/4 BSPP x BSPP	155.0	6.10	60.0	2.36
	SS90-32-20NM-20N	55.0	2.17	1 1/4 NPTF x NPTF	155.0	6.10	60.0	2.36
40 (1 1/2)	SS90-40-24GM-24G	70.0	2.76	1 1/2 BSPP x BSPP	170.0	6.69	75.0	2.95
	SS90-40-24NM-24N	70.0	2.76	1 1/2 NPTF x NPTF	170.0	6.69	75.0	2.95
50 (2)	SS90-50-32GM-32G	80.0	3.15	2 BSPP x BSPP	190.0	7.48	90.0	3.54
	SS90-50-32NM-32N	80.0	3.15	2 NPTF x NPTF	190.0	7.48	90.0	3.54

For all other configurations or thread types please contact the sales office.

BRITISH ENGINEERING - GLOBAL PRODUCTION - WORLD CLASS

HOLMBURY LTD, TERMS & CONDITIONS OF SALE

1. DEFINITIONS: In these Conditions "Holmbury" shall mean Holmbury Limited., "The Customer" shall mean the person or persons or firm or company to whom any quotation is addressed or with whom any contract is made and "the Goods" shall mean the goods or any part thereof, agreed to be sold as described on the face hereof, and any repaired, replaced or spare part. "The Delivery Date" shall mean the date notified to the Customer by Holmbury under Clause 4 (c) hereof. **2. CONTRACT:** (a) All quotations given and all contracts made by Holmbury are subject to these terms, conditions and exceptions contained herein, and all conditions and exceptions referred to by the Customer or contained in any order, acceptance of estimate or quotation, or otherwise brought to Holmbury's notice are hereby excluded. (B) Quotations issued by Holmbury are not offers capable of acceptance so as to make a binding contract. All orders placed with Holmbury require its acceptance before any contract arises. Any delivery period shall run from the date of such acceptance. (C) No servant or agent of Holmbury has any authority to make any representation, or to give any warranty relating to the Goods or to agree to any variation of, or addition to these conditions, unless such representation, warranty, variation or addition is expressed in writing and signed on behalf of Holmbury by a Director and is incorporated or referred to in Holmbury's quotation or acceptance of order. (D) These conditions, together with any special terms and conditions specified on the quotation or acceptance of order issued by Holmbury and any drawings plans or other documents referred to therein, shall on acceptance by Holmbury of the Customer's order constitute the entire agreement between Holmbury and the Customer to the exclusion of any antecedent or contemporaneous written or oral understandings, agreements or representations in respect of the supply of the Goods. **3. PRICES AND PAYMENT:** (a) All prices quoted in the contract are F.O.B the port of shipment selected by Holmbury or ex Holmbury's warehouse or otherwise as may be specified in Holmbury's quotation or acceptance of order and are those prevailing at the time of the contract, but the prices ruling at the date of delivery shall apply and shall be paid by the Customer. (B) Holmbury may add to the prices quoted in the contract a sum sufficient to compensate Holmbury for any increase in the cost to Holmbury of producing the Goods occurring after the date of the quotation (including, but not limited to increases in the costs of labour, raw materials, bought in parts, transport and overheads) and to preserve Holmbury's profit margin. (C) If work is suspended or slowed down because of the Customer's instructions, lack of instructions or failure to supply specifications or parts, additional charges may be made. (D) Unless the prices quoted in the contract are expressly shown to include Value Added Tax, all prices are subject to the addition of such Tax, where applicable. (E) Unless otherwise agreed in writing with the Customer or stated on the face hereof the price of the Goods shall be paid to Holmbury in full in cash not later than the tenth day of the month following the date of Holmbury's invoice in respect of the Goods. Interest shall be due and payable to Holmbury for late payment at the rate of 6% per annum from the due date of payment of Holmbury's invoice (As well as before any judgement) until payment is actually received by Holmbury. (F) All amounts due to Holmbury in respect of the supply of the Goods shall be paid at the offices of Holmbury Ltd at Premier House, 1 Vale Rise, Tonbridge, Kent TN9 1TB. (G) If where the price payable in respect of the Goods is due otherwise than in advance of or on delivery of the Goods, in the reasonable opinion of Holmbury the credit rating of the Customer becomes unsatisfactory prior to delivery, or if the Customer fails to perform or observe any obligations on his part to be performed or observed under this or any other contract made with Holmbury, Holmbury shall be entitled at its discretion to delay delivery of the Goods until payment therefore is rendered by the Customer or until such obligations are duly performed or observed or by notice in writing to the Customer unilaterally to cancel the contract for the supply of Goods. **4. DELIVERY AND RISKS:** (a) Delivery is to take place F.O.B the port of shipment selected by Holmbury or ex Holmbury's warehouse as may be specified in Holmbury's quotation or acceptance of order, unless otherwise specified by Holmbury and the risks of damage to or destruction of the Goods shall thereupon pass to the Customer. Where delivery is delayed due to any act of the Customer for whatever reason, such risk shall pass on the date on which delivery would have taken place for such act. (B) Any delivery date or delivery period, whether stated in the contract or otherwise notified to the Customer is an estimate only and Holmbury shall not be liable for any loss or damage whatsoever caused by the failure to make delivery on such date or within such period. (c) Upon receipt of product customer has 14 days to report any damage, shortages, incorrect product or any other problems associated with the fulfillment of said contract. **5. PROPERTY:** (a) Although risk in Goods shall pass to the Customer, as provided in Clause 4 above, property in the Goods shall not then pass to the Customer but shall remain in Holmbury until the Customer has paid to Holmbury all sums owing or due to Holmbury on any account whatsoever and has duly performed or observed all obligations of whatsoever kind on his part to be performed or observed under this or any other contract made with Holmbury provided that always that the Customer shall indemnify Holmbury against all claims, demands, damages, penalties, costs, expenses or liabilities arising out of or in connection with Holmbury's continued ownership of the Goods. (B) Whilst the Goods remain the property of Holmbury, Holmbury may retake possession of them at any time without notice to the Customer and for this purpose Holmbury may be its servants or agents enter upon any land or premises where it believes the Goods may be. (C) The Customer may sell the Goods and deliver them to the purchaser thereof provide that the Customer does so in the ordinary course of its business. Notwithstanding any agreement or provision for the granting of credit by Holmbury to the Customer, the Customer shall account to Holmbury for the proceeds of such sale, and pending such accounting shall hold such proceeds of sale as fiduciary for Holmbury. If Holmbury so requires, the Customer will assign any debt due from such purchaser to Holmbury. (D) The provision of Clause 5(A), (B) and (C) above shall continue to apply to the Goods notwithstanding any admixture with other Goods or other use or transformation of the Goods by any process of manufacture. **6. STORAGE:** Holmbury shall be entitled to store the Goods, either at their own premises or elsewhere at the Customer's expense in the following circumstances: (A) If the Goods are delivered F.O.B or ex Holmbury's warehouse, where the Customer fails to take delivery on the due date: or (b) If the Goods are delivered by the Customer to a specified place: (ii) Where Holmbury is ready to despatch the Goods, but needs delivery instructions and such instructions have not been provided by the Customer; or (ii) Where Holmbury is ready to despatch the Goods and the Customer is or will be unable to accept delivery when tendered. **7. ALTERATIONS AND IMPROVEMENTS:** (a) Holmbury or its sub-contractors may carry out without notice to the Customer alterations or improvements in design, materials, or methods of manufacture from time to time, and may substitute other reasonably similar parts for any proprietary or special part ordered by the Customer, which Holmbury or its sub-contractors considers to be unobtainable, or unobtainable in sufficient quantities or unobtainable in sufficient time or procurable with difficulty or at an excessive cost. (B) Further Holmbury may supersede, materially alter or abandon the design or type of the Goods contracted for, and may substitute another design or type. In exercising this right, Holmbury shall give written notice to the Customer and the Customer may within 14 days after such notice is given, terminate the contract by giving notice to Holmbury. If the contract is so terminated, the deposit, if any, shall be returned to the Customer, but no other claim for loss or damage may be made. (C) If, in the opinion of Holmbury, there is no design or type which could reasonably be substituted under sub-clause (b) of this clause Holmbury's obligation to complete performance or the contract shall be suspended until such time as a substitute therefore can be found and becomes available. **8. LIABILITY FOR DEFECTS:** (a) If any defect is discovered in the Goods within twelve months of their delivery or the date up to which delivery could have been made to the customer, and is shown to be due solely to defective materials or workmanship or to the failure of the Goods to perform in accordance with any plans or specifications referred to in Holmbury's quotation or acceptance of order (subject to customarily accepted tolerance) then Holmbury will at its own option, either repair or replace the defective part or parts of the Goods (or will allow the Customer credit for the price paid in respect of the Goods), and Holmbury will make no charge for any such repair or replacement. These conditions shall apply to repaired or replaced parts. (B) The undertaking given in sub-clause (a) of this clause is subject to the provisions of Clause 9 and 10 below and to the following conditions: (i) That the Customer shall return the defective part or parts of the Goods to Holmbury's works (or to such other place as Holmbury may specify), as soon as after discovery of the defect as is reasonably practicable, and in any event not later than 28 days after discovery of the defect; (ii) That the cost of transporting the defective part or parts of the Goods to and from Holmbury's works shall be paid by the Customer; (iii) That the Customer shall give written notice to Holmbury specifying the nature of the defects in the part or parts of the Goods so returned; (iv) That the Goods had been used and maintained properly and carefully and in accordance with any instruction issued by Holmbury. (C) The undertaking contained in sub-clause (a) does not apply to goods or any part of goods not manufactured by Holmbury. In the case of such goods, Holmbury will use its best endeavours to pass on to the Customer the benefit of any guarantee, condition, warranty or servicing arrangement received by Holmbury from the manufacturer of such goods, but Holmbury shall be under no liability whatsoever, for any defect in such goods. (D) In the case of a part or parts being replaced under the provisions of this clause, the original of such part or parts shall become the property of Holmbury without payment. (E) Save as above provided, Holmbury shall be under no liability by reason of the manufacture, sale or delivery of any goods which do not comply with or have not been made to comply with, the specification or description applicable to this contract, and the Customer accepts Holmbury's obligation above in lieu of any remedy or right he might otherwise have in respect of such delivery, notwithstanding that failure to provide goods which comply with the contract, or which have been made so to comply, be due to negligence on the part of Holmbury, its servants, agent, sub-contractors or others. **9. EXCLUSIONS:** (a) subject to clause 8 hereof, all conditions and warranties in respect of the Goods relating to quality, fitness for purpose, merchantability or otherwise, whether implied by statute or by common law or otherwise, are hereby excluded. (B) Without prejudice to the generality of the foregoing, any warranty or condition as to performance or suitability for any particular purpose of the Goods, and in particular any warrant or condition that the specification design or other details of the Goods will meet any particular requirement of any national or local authority or regulations or bye-laws affecting the same, except as agreed in writing with the customer, in respect of any such requirements regulations or bye-laws notified to Holmbury by the Customer on or before the making of the contract is hereby excluded. **10. PRODUCT LIABILITY AND CONSEQUENTIAL LOSS:** (a) The Customers will, on or before delivery of the Goods as herein provided, if so requested by Holmbury, enter into a written undertaking to take such steps as may be specified to the Customer by Holmbury, and set out in such undertaking relating to the safe and proper use of the Goods, without risk to health. The Customer shall indemnify Holmbury in respect of any liability, monetary penalty, or fine in respect of, or in connection with, the Goods incurred by Holmbury under the Health and Safety at Work Act 1974 or any statutory modification or re-enactment thereof or any regulations orders or directions made thereunder. (B) In no circumstances, whatsoever shall Holmbury be liable in contract or tort or otherwise for any consequential or indirect damage or loss, howsoever caused. **11. DAMAGES:** In the event, Holmbury's liability to the customer in respect of the consequences of any breach or non-performance of this contract however caused or arising, shall be limited to the price of the goods. **12. DRAWINGS, DESCRIPTION, ETC.:** All drawings, photographs, illustrations, specifications, performance data, dimensions, weights and all the like, whether contained in the contract or made by way of representation, have been provided by Holmbury in the belief that they are as accurate as reasonably possible, but they do not constitute a description of the Goods, shall not be taken to be representations made by Holmbury, and are not warranted to be accurate. **13. TERMINATION OF THE CONTRACT:** (a) Without prejudice to any other rights which Holmbury may have, Holmbury shall be entitled, on giving written notice to the Customer, to determine any contract forthwith demand immediate payment of any amount due or accruing due to Holmbury thereunder, and to retain any deposits if any of the following circumstances occur: (i) The Customer, not being a body corporate, becomes bankrupt or compounds or makes any arrangements with his creditors or commits any act of bankruptcy; (ii) The Customer, being a body corporate goes into liquidation whether compulsory or voluntary (save for the purpose of reconstruction or amalgamation) or has a receiver appointed, of its undertaking or assets or any part thereof. (B) On termination of the contract by Holmbury under sub-clause (a) of this clause, Holmbury shall have a general lien over all materials and property belonging to the Customer, which are in the possession of Holmbury for any sum due under, or in connection with, this contract or any other contract. Holmbury shall be entitled to sell such materials or property and to re-sell the Goods. **14. FORCE MAJEURE:** In the event of any delay affecting the performance of this contract by reason of any cause arising from, or attributable to acts, events, the non-occurrence of events, omissions or other accidents or matters beyond the reasonable control of Holmbury, including but not limited to the following matters, whether affecting Holmbury's own operation or those of any supplier, sub-contractor or transport contractor: (i) Strikes, lockouts or any other labour disputes (regardless of the reasonableness of the demands of labour or management's or shortage of labour); (ii) Civil commotion, riots, invasion, war or warlike state (Whether war be declared or not) or the breaking off of diplomatic relations or sabotage; (iii) Fire, explosion, storm, flood, earthquake, fog, subsidence, epidemics; (iv) Voluntary or mandatory compliance with any directions or order of any person having or appearing to have authority of the Government, whether local or national, for defence or other statutory or national purposes; (v) Inability, difficulty or delay in obtaining, or shortages of suitable raw materials, equipment, fuel, power, components or transportation. Holmbury shall be under no liability for loss or injury suffered by the Customer thereby; and the contract shall be suspended during such delay, upon the cessation of the cause of the delay, the contract shall again become operative, provided that, if as a result of such delay, a modification of the terms of the contract or cancellation thereof is requested by one party, and it is reasonable that such modification or cancellation should be made, the contract shall be so modified or cancelled, and the in the case of cancellation a proper proportion of the price shall be paid for any expenditure incurred by Holmbury or any benefit conferred upon the Customer. **15. INDUSTRIAL PROPERTY:** The Customer shall indemnify Holmbury from all claims, demands, damage, penalties, costs, expenses or liability in respect of the infringement of any letters patent, registered design, design copyright, copyright or other industrial property right or breach of confidence (not being a breach by Holmbury), resulting from or arising in the performance of this contract or of any contract in accordance with the terms of this contract. Holmbury does not warrant that the supply or use of the Goods in the United Kingdom or elsewhere is not an infringement of the rights of third parties in industrial property. **16. MISCELLANEOUS:** If any of these conditions, or any part of one of these Conditions is rendered void by any legislation to which it is subject, it shall be void to the extent and no further. If any of these Conditions or any part of one of these Conditions is rendered unenforceable by any legislation to which it is subject, it shall be enforceable to the extent that it is not a fair or reasonable one to be included but no further. **17. LEGAL CONSTRUCTION:** Unless otherwise agreed in writing, this contract shall in all respects be construed and governed by the Law of England, and the Customer submits to the jurisdiction of the Courts of England.

HOLMBURY, INC. TERMS & CONDITIONS OF SALE

1: DEFINITIONS In these Terms and Conditions "Holmbury" shall mean Holmbury Inc. a Delaware Corporation, "the Customer" shall mean the person or persons or firm or company to whom any quotation is addressed or with whom any contract is made and "the Goods" shall mean the goods or any part thereof, agreed to be sold as described on the face hereof, and any repaired, replaced or spare part. "The Delivery Date" shall mean the date notified to the Customer by Holmbury under Clause 4 hereof. **2: CONTRACT** (a) All quotations given, and all contracts made by Holmbury are subject to these terms, conditions, and exceptions contained herein, and all conditions and exceptions referred to by the Customer or contained in any order, acceptance of estimate or quotation, or otherwise brought to Holmbury's notice are hereby excluded. (b) Quotations issued by Holmbury are not offers capable of acceptance so as to make a binding contract. All orders placed with Holmbury require its acceptance before any contract arises. Any delivery period shall run from the date of such acceptance. (c) No servant or agent of Holmbury has any authority to make any representation, or to give any warranty relating to the Goods or to agree to any variation of, or addition to these conditions, unless such representation, warranty, variation, or addition is expressed in writing and signed on behalf of Holmbury by a duly appointed officer and is incorporated or referred to in Holmbury's quotation or acceptance of order. (d) These conditions, together with any special terms and conditions specified on the quotation, or acceptance of order issued by Holmbury and any drawings plans, or other documents referred to therein, shall on acceptance by Holmbury of the Customer's order constitute the entire agreement between Holmbury and the Customer to the exclusion of any antecedent or contemporaneous written or oral understandings, agreements, or representations in respect of the supply of the Goods. **3: PRICES AND PAYMENT** (a) All prices quoted in the contract are F.O.B. the port of shipment selected by Holmbury or ex Holmbury's warehouse or otherwise as may be specified in Holmbury's quotation or acceptance of order and are those prevailing at the time of the contract, but the prices ruling at the date of delivery shall apply and shall be paid by the Customer. Holmbury may add to the prices quoted in the contract a sum sufficient to compensate Holmbury for any increase in the cost to Holmbury of producing the Goods occurring after the date of the quotation (including, but not limited to increases in the costs of labor, raw materials, bought in parts, transport and overheads) and to preserve Holmbury's profit margin. (b) If work is suspended or slowed down because of the Customer's instructions, lack of instructions, or failure to supply specifications or parts, additional charges may be made. (c) Unless the prices quoted in the contract are expressly shown to include Sales Tax, all prices are subject to the addition of such Tax (where applicable). (d) Unless otherwise agreed in writing with the Customer or stated on the face of any Quotation, Purchase Order, Acknowledgment or Invoice, the price of the Goods shall be paid to Holmbury in full in cash not later than thirty (30) days following the date of Holmbury's invoice in respect of the Goods. Interest shall be due and payable to Holmbury for late payment at the rate of 6% per annum from the due date of payment of Holmbury's invoice (as well as before any judgement) until payment is actually received by Holmbury. (e) All amounts due to Holmbury in respect of the supply of the Goods shall be paid at the offices of Holmbury, Inc. at 33801 Curtis Boulevard, Suite 104, Eastlake, Ohio 44095. (f) If where the price payable in respect of the Goods is due otherwise than in advance of or on delivery of the Goods, in the reasonable opinion of Holmbury, the credit rating of the Customer becomes unsatisfactory prior to delivery, or if the Customer fails to perform or observe any obligations on his part to be performed or observed under this or any other contract made with Holmbury, Holmbury shall be entitled at its discretion to delay delivery of the Goods until payment therefore is rendered by the Customer or until such obligations are duly performed or observed or by notice in writing to the Customer unilaterally to cancel the contract for the supply of Goods. **4: DELIVERY AND RISKS** (a) Delivery is to take place F.O.B. the port of shipment selected by Holmbury or ex Holmbury's warehouse as may be specified in Holmbury's quotation or acceptance of order, unless otherwise specified by Holmbury, and the risks of damage to or destruction of the Goods shall thereupon pass to the Customer. If delivery is delayed due to any act of the Customer for whatever reason, such risk shall pass on the date on which delivery would have taken place but for such act. (b) Any delivery date or delivery period, whether stated in the contract or otherwise notified to the Customer is an estimate only and Holmbury shall not be liable for any loss or damage whatsoever caused by the failure to make delivery on such date or within such period. (c) Upon receipt of product customer has 14 days to report any damage, shortages, incorrect product or any other problems associated with the fulfillment of said contract. **5: PROPERTY** (a) Although risk in Goods shall pass to the Customer, as provided in Clause 4 above, title to the Goods shall not then pass to the Customer, but shall remain in Holmbury until the Customer has paid to Holmbury all sums owing or due to Holmbury on any account whatsoever and has duly performed or observed all obligations of whatsoever kind on Customer's part to be performed or observed under this or any other contract made with Holmbury provided always that the Customer shall indemnify Holmbury against all claims, demands, damages, penalties, costs, expenses or liabilities arising out of or in connection with Holmbury's continued ownership of the Goods. (b) While the Goods remain the property of Holmbury, Holmbury may retake possession of them at any time without notice to the Customer and for this purpose Holmbury may by its servants or agents enter upon any land or premises where it believes the Goods may be in order to possess such Goods. (c) The Customer may sell the Goods and deliver them to the purchaser thereof provided that the Customer does so in the ordinary course of its business. Notwithstanding any agreement or provision for the granting of credit by Holmbury to the Customer, the Customer shall account to Holmbury for the proceeds of such sale, and pending such accounting, shall hold such proceeds of sale as fiduciary for Holmbury. If Holmbury so requires, the Customer will assign any debt due from such purchaser to Holmbury. (d) The provision of Clause 5(a), (b) and (c) above shall continue to apply to the Goods notwithstanding any admixture with other Goods or other use or transformation of the Goods by any process of manufacture. **6: STORAGE** Holmbury shall be entitled to store the Goods, either at their own premises or elsewhere at the Customer's expense, in the following circumstances: (a) if the Goods are delivered F.O.B. or ex Holmbury's warehouse, where the Customer fails to take delivery on the due date; or (b) if the Goods are delivered by the Customer to a specified place: (i) where Holmbury is ready to transport the Goods, but needs delivery instructions and such instructions have not been provided by the Customer; or (ii) where Holmbury is ready to transport the Goods and the Customer is or will be unable to accept delivery when tendered. **7: ALTERATIONS AND IMPROVEMENTS** (a) Holmbury or its sub-contractors may carry out without notice to the Customer alterations or improvements in design, materials, or methods of manufacture from time to time, and may substitute other reasonably similar parts for any proprietary or special part ordered by the Customer, which Holmbury or its sub-contractors considers to be unobtainable, or unobtainable in sufficient quantities or unobtainable in sufficient time or procurable with difficulty or at an excessive cost. (b) Further, Holmbury may supersede, materially alter, or abandon the design or type of the Goods contracted for and may substitute another design or type. In exercising this right, Holmbury shall give written notice to the Customer and the Customer may within 14 days after such notice is given, terminate the contract by giving notice to Holmbury. If the contract is so terminated, the deposit, if any, shall be returned to the Customer, but no other claim for loss or damage may be made. (c) If, in the opinion of Holmbury, there is no design or type which could reasonably be substituted under sub-clause (b) of this clause Holmbury's obligation to complete performance or the contract shall be suspended until such time as a substitute therefore can be found and becomes available. **8: WARRANTY** (a) If any defect is discovered in the Goods within twelve months of their delivery or the date up to which delivery could have been made to the customer, and is shown to be due solely to defective materials or workmanship or to the failure of the Goods to perform in accordance with any plans or specifications referred to in Holmbury's quotation or acceptance of order (subject to customarily accepted tolerance) then Holmbury will at its own option, either repair or replace the defective part or parts of the Goods (or will allow the Customer credit for the price paid in respect of the Goods), and Holmbury will make no charge for any such repair or replacement. These conditions shall apply to repaired or replaced parts. EXCEPT AS SPECIFICALLY STATED IN THIS SECTION, THE SALE SHALL BE "AS-IS" AND HOLMBURY MAKES NO OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES AS TO THE NON-INFRINGEMENT, MERCHANTABILITY OR AS TO THE FITNESS OF THE GOODS FOR ANY PARTICULAR USE OR PURPOSE, AND HOLMBURY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECTLY OR INDIRECTLY, ARISING FROM THE USE OF SUCH GOODS. (b) The undertaking given in sub-clause (a) of this clause is subject to the provisions of Clause 9 and 10 below and to the following conditions: (i) That the Customer shall return the defective part or parts of the Goods to Holmbury's works (or to such other place as Holmbury may specify), as soon as after discovery of the defect as is reasonably practicable, and in any event not later than 28 days after discovery of the defect; (ii) That the cost of transporting the defective part or parts of the Goods to and from Holmbury's works shall be paid by the Customer; (iii) That the Customer shall give written notice to Holmbury specifying the nature of the defects in the part or parts of the Goods so returned; (iv) That the Goods had been used and maintained properly and carefully and in accordance with any instruction issued by Holmbury. (c) The undertaking contained in sub-clause (a) does not apply to goods or any part of goods not manufactured by Holmbury. In the case of such goods, Holmbury will use its best efforts to pass on to the Customer the benefit of any guarantee, condition, warranty or servicing arrangement received by Holmbury from the manufacturer of such goods, but Holmbury shall be under no liability whatsoever, for any defect in such goods. (d) In the case of a part or parts being replaced under the provisions of this clause, the original of such part or parts shall become the property of Holmbury without payment. **9: EXCLUSIONS** (a) Subject to clause 8 hereof, all conditions and warranties in respect of the Goods relating to quality, fitness for purpose, merchantability or otherwise, whether implied by statute or by common law or otherwise, are hereby excluded. (b) Without prejudice to the generality of the foregoing, any warranty or condition as to performance or suitability for any particular purpose of the Goods, and in particular any warrant or condition that the specification design or other details of the Goods will meet any particular requirement of any national or local authority or regulations or by-laws affecting the same, except as agreed in writing with the customer, in respect of any such requirements regulations or by-laws notified to Holmbury by the Customer on or before the making of the contract is hereby excluded. **10: PRODUCT LIABILITY AND DISCLAIMER OF CONSEQUENTIAL DAMAGES** (a) The Customer will, on or before delivery of the Goods as herein provided, if so requested by Holmbury, enter into a written undertaking to take such steps as may be specified to the Customer by Holmbury, and set out in such undertaking relating to the safe and proper use of the Goods, without risk to health. The Customer shall indemnify Holmbury in respect of any liability, monetary penalty, or fine in respect of, or in connection. (b) IN NO EVENT SHALL HOLMBURY BE LIABLE FOR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT AND/OR ANY SALE OF GOODS TO CUSTOMER, INCLUDING, WITHOUT LIMITATION, BREACH OF ANY OBLIGATION IMPOSED ON HOLMBURY HEREUNDER OR IN CONNECTION HERewith. CONSEQUENTIAL DAMAGES FOR PURPOSES HEREOF SHALL INCLUDE, WITHOUT LIMITATION, LOSS OF USE, INCOME OR PROFIT, OR LOSSES SUSTAINED AS THE RESULT OF INJURY; INCLUDING DEATH TO ANY PERSON, OR LOSS OF OR DAMAGE TO PROPERTY (INCLUDING, WITHOUT LIMITATION, PROPERTY HANDLED OR PROCESSED BY THE USE OF THE GOODS). CUSTOMER SHALL INDEMNIFY HOLMBURY AGAINST ALL LIABILITY, COST OR EXPENSE WHICH MAY BE SUSTAINED BY SELLER ON ACCOUNT OF ANY SUCH LOSS, DAMAGE OR INJURY. **11: LIMITATION OF LIABILITY** HOLMBURY'S LIABILITY (WHETHER UNDER THE THEORIES OF BREACH OF CONTRACT OR WARRANTY, NEGLIGENCE, OR STRICT LIABILITY) FOR ITS GOODS SHALL BE LIMITED TO REPAIRING OR REPLACING PARTS FOUND BY HOLMBURY TO BE DEFECTIVE OR AT HOLMBURY'S OPTION, TO REFUNDING THE PURCHASE PRICE OF SUCH GOODS OR PARTS THEREOF. CUSTOMER WILL SEND, AT HOLMBURY'S SOLE EXPENSE, ANY ALLEGEDLY DEFECTIVE PARTS AS INSTRUCTED BY HOLMBURY. **12: DRAWINGS, DESCRIPTION, ETC** All drawings, photographs, illustrations, specifications, performance data, dimensions, weights and all the like, whether contained in the contract or made by way of representation, have been provided by Holmbury in the belief that they are as accurate as reasonably possible, but they do not constitute a description of the Goods, shall not be taken to be representations made by Holmbury, and are not warranted to be accurate. **13: TERMINATION OF THE CONTRACT** (a) Without prejudice to any other rights which Holmbury may have, Holmbury shall be entitled, on giving written notice to the Customer, to determine any contract forthwith demand immediate payment of any amount due or accruing due to Holmbury thereunder, and to retain any deposits if any of the following circumstances occur; (i) The Customer becomes bankrupt or compounds or makes any arrangements with his creditors or commits any act of bankruptcy; (ii) The Customer goes into liquidation whether compulsory or voluntary (save for the purpose of reconstruction or amalgamation) or has a receiver appointed, of its undertaking or assets or any part thereof. (b) On termination of the contract by Holmbury under sub-clause (a) of this clause, Holmbury shall have a general lien over all materials and property belonging to the Customer, which are in the possession of Holmbury for any sum due under, or in connection with, this contract or any other contract. Holmbury shall be entitled to sell such materials or property and to re-sell the Goods. **14: FORCE MAJEURE** In the event of any delay affecting the performance of this contract by reason of any cause arising from, or attributable to acts, events, the non-occurrence of events, omissions or other accidents or matters beyond the reasonable control of Holmbury, including but not limited to the following matters, whether affecting Holmbury's own operation or those of any supplier, sub-contractor or transport contractor; (i) strikes, lockouts or any other labor disputes (regardless of the reasonableness of the demands of labor or management or shortage of labor); (ii) civil commotion, riots, invasion, war or warlike state (whether war be declared or not) or the breaking off of diplomatic relations or sabotage; (iii) fire, explosion, storm, flood, earthquake, fog, subsidence, epidemics and/or pandemics; (iv) voluntary or mandatory compliance with any directions or order of any person having or appearing to have authority of the Government, whether local or national, for defense or other statutory or national purposes; (v) inability, difficulty or delay in obtaining, or shortages of suitable raw materials, equipment, fuel, power, components or transportation. Holmbury shall be under no liability for loss or injury suffered by the Customer thereby; and the contract shall be suspended during such delay, upon the cessation of the cause of the delay, the contract shall again become operative, provided that, if as a result of such delay, a modification of the terms of the contract or cancellation thereof is requested by one party, and it is reasonable that such modification or cancellation should be made, the contract shall be so modified or cancelled, and in the case of cancellation a proper proportion of the price shall be paid for any expenditure incurred by Holmbury or any benefit conferred upon the Customer. **15: INDUSTRIAL PROPERTY** The Customer shall indemnify Holmbury from all claims, demands, damage, penalties, costs, expenses or liability in respect of the infringement of any letters patent, registered design, design copyright, copyright or other industrial property right or breach of confidence (not being a breach by Holmbury), resulting from or arising in the performance of this contract or of any contract in accordance with the terms of this contract. Holmbury does not warrant that the supply or use of the Goods in the United States of America or elsewhere is not an infringement of the rights of third parties in industrial property. **16: MISCELLANEOUS** If any of these conditions, or any part of one of these Conditions is rendered void by any legislation to which it is subject, it shall be void to the extent that it is not a fair or reasonable one to be included but no further. **17: LEGAL CONSTRUCTION** Ohio Law Applies. The laws of the State of Ohio, without giving effect to its principles of conflicts of law, govern all proceedings arising out of these Terms and Conditions. The parties agree that any litigation arising out of these Terms and Conditions or concerning the rights and obligations hereunder, shall be commenced and maintained in the appropriate court located in and having jurisdiction over Cuyahoga County, Ohio. **18: PRIVACY POLICY** The Customer has read and agrees to the information contained in our Privacy Policy (which can be found on our website or provided upon request).



BRITISH ENGINEERING - GLOBAL PRODUCTION - WORLD CLASS

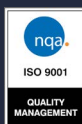
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