TECHNICAL INFORMATION

HYDRAULIC ADAPTERS

BSPT, BSPP and Metric Adapter Specifications

BSPT and Metric tapered threads install and work in the same manner as NPT and NPTF.

Male BSPP fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male BSPP fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with Female BSPP swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

DIN swivel unions have a 24° inverted cone and may be installed into DIN bite-ring compression fittings. To provide enhanced performance, an O-ring is sometimes included in the cone of some DIN swivel unions.

British Standard Pipe Parallel (BSPP) and Metric Parallel threaded ports do not include a port cavity like the O-ring Boss or ISO 6149 port. Instead, an O-ring sits on top of the spot face or external surface and is surrounded by a metal retaining ring or other retaining component to trap the O-ring between the fitting hex, body, and spot face.

Elbow and Tee fittings have a locknut, backup washer, O-ring and retaining washer to permit 360° orientation around the axis of the port.

The following table lists the specifications for BSPP & BSPT Adapters

BSPP & BSPT Specifications				
	BSPT & BSPP		Torque	
Dash Size		MAJOR OD*	BSPP Swivel Union	BSPT
	THREAD SIZE	(inch)		
02	1/8-28	0.383	2	2-3
04	1/4-19	0.518	2	2-3
06	3/8-19	0.656	2	2-3
08	1/2-14	0.825	2	2-3
10	5/8-14	0.929	2	2-3
12	3/4-14	1.041	2	2-3
16	1-11	1.309	1 1/2	1 1/2 - 2 1/2
20	1 1/4-11	1.650	1 1/2	1 1/2 - 2 1/2
24	1 1/2-11	1.882	1 1/2	1 1/2 - 2 1/2
32	2-11	2.347	1 1/2	1 1/2 - 2 1/2

The following table lists the specifications for Metric Adapters

	THREAD SIZE (mm)	
Dash Size		
08	8 x 1.0	
10	10 x 1.0	
12	12 x 1.5	
14	14 x 1.5	
16	16 x 1.5	
18	18 x 1.5	
20	20 x 1.5	
22	22 x 1.5	
24	24 x 1.5	
26	26 x 1.5	
27	27 x 2.0	
30	30 x 2.0	
33	33 x 2.0	
39	39 x 2.0	
42	42 x 2.0	
48	48 x 2.0	
60	60 X 2.0	

STEEL BSPT ADAPTERS

HYDRAULIC ADAPTERS

STRAIGHT THREAD SWIVEL NUT ELBOW



PART #	O-RING THREAD 1	FACE SEAL THREAD 2	
FS680944	7/16-20	9/16-18	
FS680966	9/16-18	11/16-16	
FS680988	3/4-16	13/16-16	
FS68091212	1-1/16-12	1-3/16-12	

FF6809 FF1239 4535 AOELC

STEEL BSPT ADAPTERS

JIC MALE CONNECTOR BSPT



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PART #	JIC THREAD SIZE 1	MALE BSPT 2	
700042	7/16-20	1/8-28	
700044	7/16-20	1/4-19	
700064	9/16-18	1/4-19	
700066	9/16-18	3/8-19	
700068	9/16-18	1/2-14	
700086	3/4-16	3/8-19	
700088	3/4-16	1/2-14	
7000812	3/4-16	3/4-14	
7000108	7/8-14	1/2-14	
70001012	7/8-14	3/4-14	
7000128	1-1/16-12	1/2-14	
70001212	1-1/16-12	3/4-14	
70001616	1-5/16-12	1-11	

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JIC MALE ELBOW BSPT



PART #	JIC THREAD SIZE 1	MALE BSPT 2	
720042	7/16-20	1/8-28	
720044	7/16-20	1/4-19	
720064	9/16-18	1/4-19	
720066	9/16-18	3/8-19	
720068	9/16-18	1/2-14	
720086	3/4-16	3/8-19	
720088	3/4-16	1/2-14	
72001212	1-1/16-12	3/4-14	

BSPT HEX NIPPLE



2

PART #	MALE BSPT1	MALE BSPT 2	
752022	1/8-28	1/8-28	
752044	1/4-19	1/4-19	
752066	3/8-19	3/8-19	
752088	1/2-14	1/2-14	
75201010	5/8-14	5/8-14	
75201212	3/4-14	3/4-14	

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BSPT PLUG



BSPT	PART #	
 1/8-28	95082	
 1/4-19	95084	
 3/8-19	95086	
 1/2-14	95088	
 3/4-14	950812	
 1-11	950816	

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STEEL BSPP ADAPTERS

BSPP HEX NIPPLE



	PART #	MALE BSPP 1	MALE BSPP 2		
	742022	1/8-28	1/8-28		
Ī	742042	1/4-19	1/8-28		
	742064	3/8-19	1/4-19		
Ī	742066	3/8-19	3/8-19		
	742086	1/2-14	3/8-19		
Ī	742088	1/2-14	1/2-14		
Ī	7420108	5/8-14	1/2-14		
Ī	7420128	3/4-14	1/2-14		
	74201212	3/4-14	3/4-14		
Ī	74201612	1-11	3/4-14		
	74201616	1-11	1-11		
			2.4	20 MD 0022	

3420 MB 9022

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

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