



HYDRAULIC
CONTROLS
INC.

ADAPTER CATALOG



Agriculture
Automation
Construction
Entertainment
Mining
Oil and Gas
Refuse



ADAPTERS FOR ALL INDUSTRIES



THREAD CHART

Dash Size	NPTF Pipe Thread	JIC 37 Flare	SAE O-Ring Thread "Boss"	Flat-Face Thread	SAE 45 Flare	Code 61 O.D.	Code 62 O.D.	British Thread BSPP/BSPT
2	1/8-27	5/16-24	5/16-24		5/16-24			1/8-28
3		3/8-24	3/8-24		3/8-24			
4	1/4-18	7/16-20	7/16-20	9-16-18	7/16-20			1/4-19
5		1/2-20	1/2-20		1/2-20			
6	3/8-18	9/16-18	9/16-18	11/16-16	5/8-18			3/8-19
7					11/16-16			
8	1/2-14	3/4-16	3/4-16	13/16-16	3/4-16	1.19	1.25	1/2-14
10		7/8-14	7/8-14	1-14	7/8-14	1.335		
12	3/4-14	1 1/16-12	1 1/16-12	1 3/16-12	1 1/16-14	1.50	1.62	3/4-14
14		1 3/16-12	1 3/16-12					
16	1-11 1/2	1 5/16-12	1 5/16-12	1 7/16-12		1.75	1.88	1-11
20	1 1/4-11 1/2	1 5/8-12	1 5/8-12	1 11/16-12		2.00	2.12	1 1/4-11
24	1 1/2-11 1/2	1 7/8-12	1 7/8-12	2-12		2.38	2.50	1 1/2-11
32	2-11 1/2	2 1/2-12	2 1/2-12			2.81	3.12	2-11



Gates Thread ID Kit
7369-4318

International / Metric Dash Size	MDL DIN Light (Tube O.D.)	MDH DIN Heavy (Tube O.D.)	Komatsu Thread	Metric Thread
10		M18x1.5 (10mm)		M10x1.0
12	M18x1.5 (12mm)	M20x1.5 (12mm)		M12x1.5
14		M22x1.5 (14mm)		M14x1.5
15	M22x1.5 (15mm)			
16		M24x1.5 (16mm)		M16x1.5
18	M26x1.5 (18mm)		M18x1.5	M18x1.5
20		M30x2.0 (20mm)		M20x1.5
22	M30x2.0 (22mm)		M22x1.5	M22x1.5
24			M24x1.5	M24x1.5
25		M36x2.0 (25mm)		
26				M26x1.5
27				M27x2.0
28	M36x2.0 (28mm)			
30		M42x2.0 (30mm)	M30x1.5	M30x2.0
33			M33x1.5	M33x2.0
35	M45x2.0 (35mm)			
36		M36x2.0 (25mm)	M36x1.5	M36x2.0
38		M52x2.0 (38mm)		
42	M52x2.0(42mm)		M42x1.5	M42x2.0



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WARNING: These products can expose you to chemicals including Lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.



PIPE ADAPTERS

							
MP-FP (pg. 10)	MP-FP-BR (pg. 10)	MP-MP (pg. 10)	FP-FP (pg. 11)	MP-FP45 (pg. 11)	MP-MP45 (pg. 11)	MP-FP90 (pg. 11)	MP-MP90 (pg. 11)
							
FP-FP90 (pg. 11)	MP-MP-FPT (pg. 12)	MP-FP-FPT (pg. 12)	MP-FP-MPT (pg. 12)	FP-FP-MPT (pg. 12)	MPT (pg. 12)	FPT (pg. 12)	FPR (pg. 12)

PIPE SWIVELS

							
MP-FPX (pg. 13)	MP-FPX45 (pg. 13)	MP-FPX90 (pg. 13)	MP-FPX90L (pg. 14)	FP-FPX (pg. 14)	FP-FPX45 (pg. 15)	FP-FPX90 (pg. 15)	FPX-FPX (pg. 15)
			Intentionally left blank	Intentionally left blank	Note: blanks can be drilled to be used as flow controls.		
FPX-FPX-MPT (pg. 14)	FPX-FPX-FPT (pg. 15)	FPXT (pg. 15)				MP-FPX-00 (pg. 14) (Blanks)	MP-FPX90-00 (pg. 14) (Blanks)



JIC ADAPTERS

MJ-MP (pg. 16)	MJ-MP45 (pg. 16)	MJ-MP90 (pg. 17)	MJ-MP90L (pg. 17)	MJ-MP90LL (pg. 17)	MJ-FP (pg. 18)	MJ-FP90 (pg. 18)	MJ-MJ (pg. 18)
MJ-MJ45 (pg. 19)	MJ-MJ90 (pg. 19)	MP-MJH (pg. 19)	FP-MJH (pg. 19)	MJ-MJH (pg. 19)	MJ-MJH45 (pg. 20)	MJ-MJH90 (pg. 20)	MJ-MJH-MJT (pg. 20)
MJHT (pg. 20)	MJ-FJ (pg. 20)	MJ-MJ-MPT (pg. 21)	MJ-MJ-FPT (pg. 21)	MJ-MP-MJT (pg. 21)	MJ-FP-MJT (pg. 22)	MJT (pg. 22)	MJR (pg. 22)

JIC SWIVELS

MP-FJX (pg. 23)	MP-FJX90 (pg. 23)	FP-FJX (pg. 23)	MJ-FJX (pg. 23)	MJ-FJX45 (pg. 24)	MJ-FJX90 (pg. 24)	MJ-FJX90L (pg. 24)	FJX-FJX (pg. 24)
		Intentionally left blank	Intentionally left blank	Intentionally left blank	Gauge Tees are available with a 1/4" NPT gauge port or with a #4 SAE port to accept a gauge or snubber: MJ-FJX-FP MJ-FJX-FB (pg. 23)		
MJ-MJ-FJXT (pg. 24)	MJ-FJX-MJT (pg. 24)						



STRAIGHT THREAD O-RING "BOSS"

							
MP-MB (pg. 25)	MP-MB90 (pg. 25)	MP-FB (pg. 25)	MB-FP (pg. 26)	MB-FP90 (pg. 27)	MB-FB (pg. 27)	MB-MB (pg. 26)	MB-MB90 (pg. 26)
							
MB-FPX (pg. 28)	MB-FPX45 (pg. 28)	MB-FPX90 (pg. 28)	MB-MJ (pg. 29)	MB-MJ45 (pg. 29)	MB-MJ90 (pg. 30)	MB-MJ90LL (pg. 30)	MB-FJX (pg. 30)
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MB-FJX90 (pg. 31)	MJ-MJ-MBT (pg. 31)	MJ-MB-MJT (pg. 31)					

SPLIT FLANGE ADAPTERS

CODE 61				Intentionally left blank			
	FL-MJ (pg. 33)	FL-MJ45 (pg. 33)	FL-MJ90 (pg. 33)		SFO (Code 61) (pg. 33)	W43 (NPT Block) (pg. 33)	W46 (SAE Block) (pg. 33)
CODE 62				Intentionally left blank			
	FLH6K-MJ (pg. 34)	FLH6K-MJ45 (pg. 34)	FLH6K-MJ90 (pg. 34)		SFXO (Code 62) (pg. 34)	W44 (NPT Block) (pg. 34)	W48 (SAE Block) (pg. 34)



FLAT FACE ADAPTERS

							
MFFOR-MP (pg. 36)	MFFOR-MP90 (pg. 36)	MFFOR-MB (pg. 36)	MFFOR-MB45 (pg. 37)	MFFOR-MB90 (pg. 37)	MFFOR-MFFOR-MBT (pg. 37)	FFORX-MB (pg. 37)	FFORX-MB90 (pg. 37)
							
MFFOR-MJ (pg. 38)	FFORX-MJ (pg. 38)	MFFOR-FFORX (pg. 38)	MFFOR-FFORX45 (pg. 38)	MFFOR-FFORX90 (pg. 38)	MFFORT (pg. 39)	MFFOR-FFORX-MFFOR (pg. 39)	MFFOR-MFFOR-FFORX (pg. 39)

INTERNATIONAL ADAPTERS BRITISH, METRIC, DIN HEAVY, DIN LIGHT

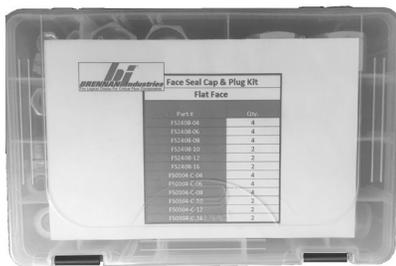
							
MBSPP-MP (pg. 42)	MBSPP-MJ (pg. 42)	MBSPP-MJ90 (pg. 42)	MBSPPOR-MJ (pg. 42)	MBSPP-FJX (pg. 43)	MBSPP-FBSPPX (pg. 43)	FBSPPX-MJ (pg. 42)	MBSPP-MB (pg. 42)
							
FBSPPX-FJX (pg. 43)	MBSPT-MJ (pg. 43)	MM-MJ (pg. 44)	MM-FP (pg. 44)	MDL-MJ (pg. 44)	MDH-MJ (pg. 44)	FDLX-MJ (pg. 45)	FDHX-MJ (pg. 45)



CAPS, PLUGS & BONDED SEALS

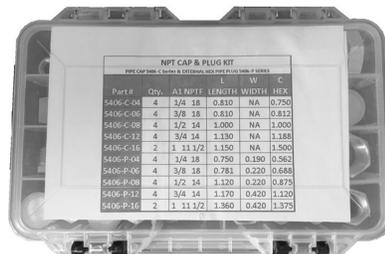
FFG (pg. 40)	FFC (pg. 40)	REG (pg. 40)	PG (pg. 40)	PC (pg. 40)	JG (pg. 41)	JC (pg. 41)	BG (pg. 41)
							Intentionally left blank
RBG (pg. 41)	TUN (pg. 31)	TUS (pg. 31)	HN (pg. 19)	BSPPG (pg. 41)	BSPPC (pg. 41)	BRBG (pg. 41)	
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9900 (pg. 43)	8800 (pg. 45)				MS-MP (pg. 35)	MS-MP90 (pg. 35)	MS-FP (pg. 35)

FLAT FACE CAP & PLUG KIT



Flat Face Size	Quantity
04, 06, 08	4 each
10, 12, 16	2 each

NPT CAP & PLUG KIT



NPT Size	Quantity
04, 06, 08, 12	4 each
16	2 each

JIC CAP & PLUG KIT



JIC Size	Quantity
04, 06, 08, 10, 12	4 each
16	2 each



WELD COUPLERS & HOSE BARBS

			Weld Couplings range in sizes 1/4" to 3"				
SAE/NPT Full 825 (pg. 47)	SAE/SAE Full 830 (pg. 47)	1/2 SAE 835 Series (pg. 47)		Hose Barb to Male Pipe (pg. 46)	Hose Barb to Male Pipe 90 (pg. 46)	Hose Barb to Male Boss (pg. 46)	Hose Barb to Male Boss 90 (pg. 46)



T-BOLT CLAMPS

CLAMP #	SIZE	Fits Hose
TBC150	1-24/64" TO 1-36/64"	16GMV
TBC175	1-40/64" TO 1-52/64"	
TBC188	1-48/64" TO 1-60/64"	20GMV
TBC200	1-56/64" TO 2-4/64"	24GMV
TBC225	2-8/64" TO 2-20/64"	
TBC250	2-24/64" TO 2-36/64"	
TBC256	2-22/64" TO 2-40/64"	32GMV
TBC300	2-50/64" TO 3-4/64"	40GMV

ABBREVIATIONS

B = BOSS O-RING STRAIGHT THREAD

L = LONG DROP

S = S.A.E. 45° FLARE

C = CAP

LL = EXTRA LONG DROP

T = TEE

F = FEMALE

LH = LARGE HEX

TUN = TUBE NUT

FF = FLAT FACE

M = MALE

TUS = TUBE SLEEVE

FL = FLANGE ADAPTER

N = NUT

X = SWIVEL

G = PLUG

P = PIPE

5K = CODE 61 / 5000 PSI

J = 37° JIC Flare

R = CROSS

6K = CODE 62 / 6000 PSI

H = BULKHEAD

RB = RECESSED BOSS O-RING

HN = BULKHEAD NUT

RE = RECESSED PIPE



PIPE ADAPTERS

PIPE BUSHING



PART #	MALE PIPE THREAD	FEMALE PIPE THREAD
MP-FP-4-2	1/4-18	1/8-27
MP-FP-6-2	3/8-18	1/8-27
MP-FP-6-4	3/8-18	1/4-18
MP-FP-8-2	1/2-14	1/8-27
MP-FP-8-4	1/2-14	1/4-18
MP-FP-8-6	1/2-14	3/8-18
MP-FP-12-2	3/4-14	1/8-27
MP-FP-12-4	3/4-14	1/4-18
MP-FP-12-6	3/4-14	3/8-18
MP-FP-12-8	3/4-14	1/2-14
MP-FP-16-2	1-11 1/2	1/8-27
MP-FP-16-4	1-11 1/2	1/4-18
MP-FP-16-6	1-11 1/2	3/8-18
MP-FP-16-8	1-11 1/2	1/2-14
MP-FP-16-12	1-11 1/2	3/4-14
MP-FP-20-4	1 1/4-11 1/2	1/4-18
MP-FP-20-6	1 1/4-11 1/2	3/8-18
MP-FP-20-8	1 1/4-11 1/2	1/2-14
MP-FP-20-12	1 1/4-11 1/2	3/4-14
MP-FP-20-16	1 1/4-11 1/2	1-11 1/2
MP-FP-24-4	1 1/2-11 1/2	1/4-18
MP-FP-24-6	1 1/2-11 1/2	3/8-18
MP-FP-24-8	1 1/2-11 1/2	1/2-14
MP-FP-24-12	1 1/2-11 1/2	3/4-14
MP-FP-24-16	1 1/2-11 1/2	1-11 1/2
MP-FP-24-20	1 1/2-11 1/2	1 1/4-11 1/2
MP-FP-32-8	2-11 1/2	1/2-14
MP-FP-32-12	2-11 1/2	3/4-14
MP-FP-32-16	2-11 1/2	1-11 1/2
MP-FP-32-20	2-11 1/2	1 1/4-11 1/2
MP-FP-32-24	2-11 1/2	1 1/2-11 1/2

BELL REDUCER



PART #	MALE PIPE THREAD	FEMALE PIPE THREAD
MP-FP-2-4-BR	1/8-27	1/4-18
MP-FP-2-6-BR	1/8-27	3/8-18
MP-FP-2-8-BR	1/8-27	1/2-14
MP-FP-4-6-BR	1/4-18	3/8-18
MP-FP-4-8-BR	1/4-18	1/2-14
MP-FP-6-8-BR	3/8-18	1/2-14
MP-FP-6-12-BR	3/8-18	3/4-14
MP-FP-8-12-BR	1/2-14	3/4-14
MP-FP-8-16-BR	1/2-14	1-11 1/2
MP-FP-12-16-BR	3/4-14	1-11 1/2
MP-FP-16-20-BR	1-11 1/2	1 1/4-11 1/2
MP-FP-20-24-BR	1 1/4-11 1/2	1 1/2-11 1/2
MP-FP-24-32-BR	1 1/2-11 1/2	2-11 1/2

PIPE EXTENSION



PART #	MALE PIPE THREAD	FEMALE PIPE THREAD
MP-FP-2-2	1/8-27	1/8-27
MP-FP-4-4	1/4-18	1/4-18
MP-FP-6-6	3/8-18	3/8-18
MP-FP-8-6	1/2-14	3/8-18
MP-FP-8-8	1/2-14	1/2-14
MP-FP-12-12	3/4-14	3/4-14
MP-FP-16-16	1-11 1/2	1-11 1/2
MP-FP-20-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-FP-24-24	1 1/2-11 1/2	1 1/2-11 1/2

PIPE NIPPLE



PART #	MALE PIPE THREAD	MALE PIPE THREAD
MP-MP-2-2	1/8-27	1/8-27
MP-MP-4-2	1/4-18	1/8-27
MP-MP-4-4	1/4-18	1/4-18
MP-MP-6-2	3/8-18	1/8-27
MP-MP-6-4	3/8-18	1/4-18
MP-MP-6-6	3/8-18	3/8-18
MP-MP-8-4	1/2-14	1/4-18
MP-MP-8-6	1/2-14	3/8-18
MP-MP-8-8	1/2-14	1/2-14
MP-MP-12-4	3/4-14	1/4-18
MP-MP-12-6	3/4-14	3/8-18
MP-MP-12-8	3/4-14	1/2-14
MP-MP-12-12	3/4-14	3/4-14
MP-MP-16-8	1-11 1/2	1/2-14
MP-MP-16-12	1-11 1/2	3/4-14
MP-MP-16-16	1-11 1/2	1-11 1/2
MP-MP-20-16	1 1/4-11 1/2	1-11 1/2
MP-MP-20-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-MP-24-20	1 1/2-11 1/2	1 1/4-11 1/2
MP-MP-24-24	1 1/2-11 1/2	1 1/2-11 1/2
MP-MP-32-24	2-11 1/2	1 1/2-11 1/2
MP-MP-32-32	2-11 1/2	2-11 1/2

NPT SEALS BY METAL TO METAL INTERFERENCE FIT AND USUALLY REQUIRES A SEALING COMPOUND.



PIPE COUPLER



PART #	FEMALE PIPE THREAD	FEMALE PIPE THREAD
FP-FP-2-2	1/8-27	1/8-27
FP-FP-4-2	1/4-18	1/8-27
FP-FP-4-4	1/4-18	1/4-18
FP-FP-6-2	3/8-18	1/8-27
FP-FP-6-4	3/8-18	1/4-18
FP-FP-6-6	3/8-18	3/8-18
FP-FP-8-2	1/2-14	1/8-27
FP-FP-8-4	1/2-14	1/4-18
FP-FP-8-6	1/2-14	3/8-18
FP-FP-8-8	1/2-14	1/2-14
FP-FP-12-6	3/4-14	3/8-18
FP-FP-12-8	3/4-14	1/2-14
FP-FP-12-12	3/4-14	3/4-14
FP-FP-16-8	1-11 1/2	1/2-14
FP-FP-16-12	1-11 1/2	3/4-14
FP-FP-16-16	1-11 1/2	1-11 1/2
FP-FP-20-16	1 1/4-11 1/2	1-11 1/2
FP-FP-20-20	1 1/4-11 1/2	1 1/4-11 1/2
FP-FP-24-20	1 1/2-11 1/2	1 1/4-11 1/2
FP-FP-24-24	1 1/2-11 1/2	1 1/2-11 1/2
FP-FP-32-32	2-11 1/2	2-11 1/2

45° STREET ELBOW



PART #	MALE PIPE THREAD	FEMALE PIPE THREAD
MP-FP45-2-2	1/8-27	1/8-27
MP-FP45-4-4	1/4-18	1/4-18
MP-FP45-6-6	3/8-18	3/8-18
MP-FP45-8-8	1/2-14	1/2-14
MP-FP45-12-12	3/4-14	3/4-14
MP-FP45-16-16	1-11 1/2	1-11 1/2
MP-FP45-20-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-FP45-24-24	1 1/2-11 1/2	1 1/2-11 1/2

90° STREET ELBOW



PART #	MALE PIPE THREAD	FEMALE PIPE THREAD
MP-FP90-2-2	1/8-27	1/8-27
MP-FP90-2-4	1/8-27	1/4-18
MP-FP90-4-2	1/4-18	1/8-27
MP-FP90-4-4	1/4-18	1/4-18
MP-FP90-4-6	1/4-18	3/8-18
MP-FP90-6-4	3/8-18	1/4-18
MP-FP90-6-6	3/8-18	3/8-18
MP-FP90-6-8	3/8-18	1/2-14
MP-FP90-8-4	1/2-14	1/4-18
MP-FP90-8-6	1/2-14	3/8-18
MP-FP90-8-8	1/2-14	1/2-14
MP-FP90-12-6	3/4-14	3/8-18
MP-FP90-12-8	3/4-14	1/2-14
MP-FP90-12-12	3/4-14	3/4-14
MP-FP90-16-12	1-11 1/2	3/4-14
MP-FP90-16-16	1-11 1/2	1-11 1/2
MP-FP90-20-16	1 1/4-11 1/2	1-11 1/2
MP-FP90-20-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-FP90-20-24	1 1/4-11 1/2	1 1/2-11 1/2
MP-FP90-24-24	1 1/2-11 1/2	1 1/2-11 1/2
MP-FP90-32-32	2-11 1/2	2-11 1/2

45° PIPE ELBOW



PART #	MALE PIPE THREAD	MALE PIPE THREAD
MP-MP45-2-2	1/8-27	1/8-27
MP-MP45-4-4	1/4-18	1/4-18
MP-MP45-6-6	3/8-18	3/8-18
MP-MP45-8-8	1/2-14	1/2-14
MP-MP45-12-12	3/4-14	3/4-14
MP-MP45-16-16	1-11 1/2	1-11 1/2
MP-MP45-20-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-MP45-24-24	1 1/2-11 1/2	1 1/2-11 1/2

90° MALE PIPE ELBOW



PART #	MALE PIPE THREAD	MALE PIPE THREAD
MP-MP90-2-2	1/8-27	1/8-27
MP-MP90-4-2	1/4-18	1/8-27
MP-MP90-4-4	1/4-18	1/4-18
MP-MP90-6-4	3/8-18	1/4-18
MP-MP90-6-6	3/8-18	3/8-18
MP-MP90-8-4	1/2-14	1/4-18
MP-MP90-8-6	1/2-14	3/8-18
MP-MP90-8-8	1/2-14	1/2-14
MP-MP90-12-8	3/4-14	1/2-14
MP-MP90-12-12	3/4-14	3/4-14
MP-MP90-16-12	1-11 1/2	3/4-14
MP-MP90-16-16	1-11 1/2	1-11 1/2
MP-MP90-20-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-MP90-24-24	1 1/2-11 1/2	1 1/2-11 1/2

90° FEMALE PIPE ELBOW



PART #	FEMALE PIPE THREAD	FEMALE PIPE THREAD
FP-FP90-2-2	1/8-27	1/8-27
FP-FP90-4-2	1/4-18	1/8-27
FP-FP90-4-4	1/4-18	1/4-18
FP-FP90-6-4	3/8-18	1/4-18
FP-FP90-6-6	3/8-18	3/8-18
FP-FP90-8-4	1/2-14	1/4-18
FP-FP90-8-6	1/2-14	3/8-18
FP-FP90-8-8	1/2-14	1/2-14
FP-FP90-12-8	3/4-14	1/2-14
FP-FP90-12-12	3/4-14	3/4-14
FP-FP90-16-12	1-11 1/2	3/4-14
FP-FP90-16-16	1-11 1/2	1-11 1/2
FP-FP90-20-20	1 1/4-11 1/2	1 1/4-11 1/2
FP-FP90-24-24	1 1/2-11 1/2	1 1/2-11 1/2
FP-FP90-32-32	2-11 1/2	2-11 1/2



SERVICE TEE



PART #	MALE PIPE THREAD	FEMALE PIPE THREAD
MP-FP-FPT-2	1/8-27	1/8-27
MP-FP-FPT-4	1/4-18	1/4-18
MP-FP-FPT-6	3/8-18	3/8-18
MP-FP-FPT-8	1/2-14	1/2-14
MP-FP-FPT-12	3/4-14	3/4-14
MP-FP-FPT-16	1-11 1/2	1-11 1/2
MP-FP-FPT-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-FP-FPT-24	1 1/2-11 1/2	1 1/2-11 1/2
MP-FP-FPT-32	2-11 1/2	2-11 1/2

MALE-FEMALE PIPE TEE



PART #	MALE PIPE THREAD	FEMALE PIPE THREAD
MP-FP-MPT-2	1/8-27	1/8-27
MP-FP-MPT-4	1/4-18	1/4-18
MP-FP-MPT-6	3/8-18	3/8-18
MP-FP-MPT-8	1/2-14	1/2-14
MP-FP-MPT-12	3/4-14	3/4-14
MP-FP-MPT-16	1-11 1/2	1-11 1/2
MP-FP-MPT-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-FP-MPT-24	1 1/2-11 1/2	1 1/2-11 1/2

MALE-FEMALE PIPE TEE



PART #	MALE PIPE THREAD	FEMALE PIPE THREAD
MP-MP-FPT-4	1/4-18	1/4-18
MP-MP-FPT-6	3/8-18	3/8-18
MP-MP-FPT-8	1/2-14	1/2-14
MP-MP-FPT-12	3/4-14	3/4-14
MP-MP-FPT-16	1-11 1/2	1-11 1/2

FEMALE-MALE PIPE TEE



PART #	FEMALE PIPE THREAD	MALE PIPE THREAD
FP-FP-MPT-2	1/8-27	1/8-27
FP-FP-MPT-4	1/4-18	1/4-18
FP-FP-MPT-6	3/8-18	3/8-18
FP-FP-MPT-8	1/2-14	1/2-14
FP-FP-MPT-12-8	3/4-14	1/2-14
FP-FP-MPT-12	3/4-14	3/4-14
FP-FP-MPT-16	1-11 1/2	1-11 1/2
FP-FP-MPT-20	1 1/4-11 1/2	1 1/4-11 1/2
FP-FP-MPT-24	1 1/2-11 1/2	1 1/2-11 1/2

MALE PIPE TEE



PART #	MALE PIPE THREAD
MPT-2	1/8-27
MPT-4	1/4-18
MPT-6	3/8-18
MPT-8	1/2-14
MPT-12	3/4-14
MPT-16	1-11 1/2

FEMALE PIPE TEE



PART #	FEMALE PIPE THREAD	FEMALE PIPE THREAD
FPT-2	1/8-27	1/8-27
FPT-4	1/4-18	1/4-18
FPT-4-4-6	1/4-18	3/8-18
FPT-6	3/8-18	3/8-18
FPT-6-6-8	3/8-18	1/2-14
FPT-8	1/2-14	1/2-14
FPT-12	3/4-14	3/4-14
FPT-16	1-11 1/2	1-11 1/2
FPT-20	1 1/4-11 1/2	1 1/4-11 1/2
FPT-24	1 1/2-11 1/2	1 1/2-11 1/2
FPT-32	2-11 1/2	2-11 1/2

FEMALE PIPE CROSS



PART #	FEMALE PIPE THREAD
FPR-2	1/8-27
FPR-4	1/4-18
FPR-6	3/8-18
FPR-8	1/2-14
FPR-12	3/4-14
FPR-16	1-11 1/2
FPR-20	1 1/4-11 1/2
FPR-24	1 1/2-11 1/2
FPR-32	2-11 1/2



PIPE SWIVELS

MALE-FEMALE PIPE SWIVEL



PART #	MALE PIPE THREAD	FEMALE PIPE SWIVEL
MP-FPX-2-2	1/8-27	1/8-27
MP-FPX-2-4	1/8-27	1/4-18
MP-FPX-4-2	1/4-18	1/8-27
MP-FPX-4-4	1/4-18	1/4-18
MP-FPX-4-6	1/4-18	3/8-18
MP-FPX-4-8	1/4-18	1/2-14
MP-FPX-6-4	3/8-18	1/4-18
MP-FPX-6-6	3/8-18	3/8-18
MP-FPX-6-8	3/8-18	1/2-14
MP-FPX-8-4	1/2-14	1/4-18
MP-FPX-8-6	1/2-14	3/8-18
MP-FPX-8-8	1/2-14	1/2-14
MP-FPX-8-12	1/2-14	3/4-14
MP-FPX-12-6	3/4-14	3/8-18
MP-FPX-12-8	3/4-14	1/2-14
MP-FPX-12-12	3/4-14	3/4-14
MP-FPX-12-16	3/4-14	1-11 1/2
MP-FPX-12-20	3/4-14	1 1/4-11 1/2
MP-FPX-16-12	1-11 1/2	3/4-14
MP-FPX-16-16	1-11 1/2	1-11 1/2
MP-FPX-16-20	1-11 1/2	1 1/4-11 1/2
MP-FPX-16-24	1-11 1/2	1 1/2-11 1/2
MP-FPX-20-16	1 1/4-11 1/2	1-11 1/2
MP-FPX-20-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-FPX-20-24	1 1/4-11 1/2	1 1/2-11 1/2
MP-FPX-24-20	1 1/2-11 1/2	1 1/4-11 1/2
MP-FPX-24-24	1 1/2-11 1/2	1 1/2-11 1/2
MP-FPX-32-32	2-11 1/2	2-11 1/2

45° MALE-FEMALE PIPE SWIVEL ELBOW



PART #	MALE PIPE THREAD	FEMALE PIPE SWIVEL
MP-FPX45-2-2	1/8-27	1/8-27
MP-FPX45-2-4	1/8-27	1/4-18
MP-FPX45-4-2	1/4-18	1/8-27
MP-FPX45-4-4	1/4-18	1/4-18
MP-FPX45-4-6	1/4-18	3/8-18
MP-FPX45-6-4	3/8-18	1/4-18
MP-FPX45-6-6	3/8-18	3/8-18
MP-FPX45-6-8	3/8-18	1/2-14
MP-FPX45-8-4	1/2-14	1/4-18
MP-FPX45-8-6	1/2-14	3/8-18
MP-FPX45-8-8	1/2-14	1/2-14
MP-FPX45-8-12	1/2-14	3/4-14
MP-FPX45-12-8	3/4-14	1/2-14
MP-FPX45-12-12	3/4-14	3/4-14
MP-FPX45-12-16	3/4-14	1-11 1/2
MP-FPX45-16-12	1-11 1/2	3/4-14
MP-FPX45-16-16	1-11 1/2	1-11 1/2
MP-FPX45-16-20	1-11 1/2	1 1/4-11 1/2
MP-FPX45-20-16	1 1/4-11 1/2	1-11 1/2
MP-FPX45-20-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-FPX45-24-24	1 1/2-11 1/2	1 1/2-11 1/2
MP-FPX45-32-32	2-11 1/2	2-11 1/2

90° MALE-FEMALE PIPE SWIVEL ELBOW



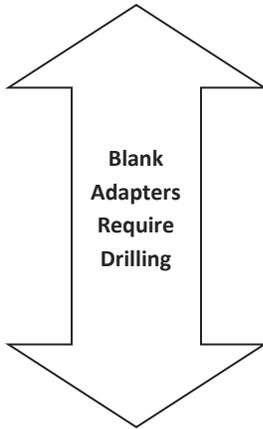
PART #	MALE PIPE THREAD	FEMALE PIPE SWIVEL
MP-FPX90-2-2	1/8-27	1/8-27
MP-FPX90-2-4	1/8-27	1/4-18
MP-FPX90-4-2	1/4-18	1/8-27
MP-FPX90-4-4	1/4-18	1/4-18
MP-FPX90-4-6	1/4-18	3/8-18
MP-FPX90-4-8	1/4-18	1/2-14
MP-FPX90-6-4	3/8-18	1/4-18
MP-FPX90-6-6	3/8-18	3/8-18
MP-FPX90-6-8	3/8-18	1/2-14
MP-FPX90-8-4	1/2-14	1/4-18
MP-FPX90-8-6	1/2-14	3/8-18
MP-FPX90-8-8	1/2-14	1/2-14
MP-FPX90-8-12	1/2-14	3/4-14
MP-FPX90-12-4	3/4-14	1/4-18
MP-FPX90-12-6	3/4-14	3/8-18
MP-FPX90-12-8	3/4-14	1/2-14
MP-FPX90-12-12	3/4-14	3/4-14
MP-FPX90-12-16	3/4-14	1-11 1/2
MP-FPX90-12-20	3/4-14	1 1/4-11 1/2
MP-FPX90-16-8	1-11 1/2	1/2-14
MP-FPX90-16-12	1-11 1/2	3/4-14
MP-FPX90-16-16	1-11 1/2	1-11 1/2
MP-FPX90-16-20	1-11 1/2	1 1/4-11 1/2
MP-FPX90-20-12	1 1/4-11 1/2	3/4-14
MP-FPX90-20-16	1 1/4-11 1/2	1-11 1/2
MP-FPX90-20-20	1 1/4-11 1/2	1 1/4-11 1/2
MP-FPX90-20-24	1 1/4-11 1/2	1 1/2-11 1/2
MP-FPX90-24-20	1 1/2-11 1/2	1 1/4-11 1/2
MP-FPX90-24-24	1 1/2-11 1/2	1 1/2-11 1/2
MP-FPX90-32-32	2-11 1/2	2-11 1/2



MALE-FEMALE PIPE SWIVEL BLANK TYPE



PART #	MALE PIPE THREAD	FEMALE PIPE SWIVEL
MP-FPX-4-4-00	1/4-18	1/4-18
MP-FPX-6-6-00	3/8-18	3/8-18
MP-FPX-8-8-00	1/2-14	1/2-14



90° MALE-FEMALE PIPE SWIVEL BLANK TYPE



PART #	MALE PIPE THREAD	FEMALE PIPE SWIVEL
MP-FPX90-4-4-00	1/4-18	1/4-18
MP-FPX90-6-6-00	3/8-18	3/8-18
MP-FPX90-8-8-00	1/2-14	1/2-14

90° MALE-FEMALE PIPE SWIVEL LONG ELBOW



PART #	MALE PIPE THREAD	FEMALE PIPE SWIVEL
MP-FPX90L-4-4	1/4-18	1/4-18
MP-FPX90L-6-6	3/8-18	3/8-18
MP-FPX90L-8-8	1/2-14	1/2-14
MP-FPX90L-12-12	3/4-14	3/4-14
MP-FPX90L-16-16	1-11 1/2	1-11 1/2

FEMALE SWIVEL- FEMALE SWIVEL-MALE PIPE TEE



PART #	FEMALE PIPE SWIVEL	MALE PIPE THREAD
FPX-FPX-MPT-2	1/8-27	1/8-27
FPX-FPX-MPT-4	1/4-18	1/4-18
FPX-FPX-MPT-4-4-6	1/4-18	3/8-18
FPX-FPX-MPT-4-4-8	1/4-18	1/2-14
FPX-FPX-MPT-6-6-4	3/8-18	1/4-18
FPX-FPX-MPT-6	3/8-18	3/8-18
FPX-FPX-MPT-6-6-8	3/8-18	1/2-14
FPX-FPX-MPT-8	1/2-14	1/2-14
FPX-FPX-MPT-8-8-12	1/2-14	3/4-14
FPX-FPX-MPT-12	3/4-14	3/4-14
FPX-FPX-MPT-16-16-12	1-11 1/2	3/4-14
FPX-FPX-MPT-16	1-11 1/2	1-11 1/2
FPX-FPX-MPT-20	1 1/4-11 1/2	1 1/4-11 1/2
FPX-FPX-MPT-24	1 1/2-11 1/2	1 1/2-11 1/2

FEMALE PIPE SWIVEL



PART #	FEMALE PIPE THREAD	FEMALE PIPE SWIVEL
FP-FPX-2-2	1/8-27	1/8-27
FP-FPX-2-4	1/8-27	1/4-18
FP-FPX-4-2	1/4-18	1/8-27
FP-FPX-4-4	1/4-18	1/4-18
FP-FPX-4-6	1/4-18	3/8-18
FP-FPX-6-4	3/8-18	1/4-18
FP-FPX-6-6	3/8-18	3/8-18
FP-FPX-6-8	3/8-18	1/2-14
FP-FPX-8-4	1/2-14	1/4-18
FP-FPX-8-6	1/2-14	3/8-18
FP-FPX-8-8	1/2-14	1/2-14
FP-FPX-8-12	1/2-14	3/4-14
FP-FPX-12-8	3/4-14	1/2-14
FP-FPX-12-12	3/4-14	3/4-14
FP-FPX-12-16	3/4-14	1-11 1/2
FP-FPX-16-12	1-11 1/2	3/4-14
FP-FPX-16-16	1-11 1/2	1-11 1/2
FP-FPX-20-20	1 1/4-11 1/2	1 1/4-11 1/2
FP-FPX-24-24	1 1/2-11 1/2	1 1/2-11 1/2
FP-FPX-32-32	2-11 1/2	2-11 1/2



45° FEMALE PIPE SWIVEL



PART #	FEMALE PIPE THREAD	FEMALE PIPE SWIVEL
FP-FPX45-2-2	1/8-27	1/8-27
FP-FPX45-4-4	1/4-18	1/4-18
FP-FPX45-4-6	1/4-18	3/8-18
FP-FPX45-6-4	3/8-18	1/4-18
FP-FPX45-6-6	3/8-18	3/8-18
FP-FPX45-6-8	3/8-18	1/2-14
FP-FPX45-8-6	1/2-14	3/8-18
FP-FPX45-8-8	1/2-14	1/2-14
FP-FPX45-12-12	3/4-14	3/4-14
FP-FPX45-16-12	1-11 1/2	3/4-14
FP-FPX45-16-16	1-11 1/2	1-11 1/2
FP-FPX45-20-20	1 1/4-11 1/2	1 1/4-11 1/2
FP-FPX45-24-24	1 1/2-11 1/2	1 1/2-11 1/2

PIPE SWIVEL UNION



PART #	FEMALE PIPE SWIVEL
FPX-FPX-4-4	1/4-18
FPX-FPX-6-6	3/8-18
FPX-FPX-8-8	1/2-14
FPX-FPX-12-12	3/4-14
FPX-FPX-16-16	1-11 1/2
FPX-FPX-20-20	1 1/4-11 1/2

90° FEMALE PIPE SWIVEL



PART #	FEMALE PIPE THREAD	FEMALE PIPE SWIVEL
FP-FPX90-2-2	1/8-27	1/8-27
FP-FPX90-2-4	1/8-27	1/4-18
FP-FPX90-4-2	1/4-18	1/8-27
FP-FPX90-4-4	1/4-18	1/4-18
FP-FPX90-4-6	1/4-18	3/8-18
FP-FPX90-6-4	3/8-18	1/4-18
FP-FPX90-6-6	3/8-18	3/8-18
FP-FPX90-6-8	3/8-18	1/2-14
FP-FPX90-8-4	1/2-14	1/4-18
FP-FPX90-8-6	1/2-14	3/8-18
FP-FPX90-8-8	1/2-14	1/2-14
FP-FPX90-8-12	1/2-14	3/4-14
FP-FPX90-12-8	3/4-14	1/2-14
FP-FPX90-12-12	3/4-14	3/4-14
FP-FPX90-12-16	3/4-14	1-11 1/2
FP-FPX90-16-12	1-11 1/2	3/4-14
FP-FPX90-16-16	1-11 1/2	1-11 1/2
FP-FPX90-20-16	1 1/4-11 1/2	1-11 1/2
FP-FPX90-20-20	1 1/4-11 1/2	1 1/4-11 1/2
FP-FPX90-24-24	1 1/2-11 1/2	1 1/2-11 1/2
FP-FPX90-32-32	2-11 1/2	2-11 1/2

FEMALE SWIVEL-FEMALE SWIVEL-FEMALE PIPE TEE



PART #	FEMALE PIPE SWIVEL	FEMALE PIPE THREAD
FPX-FPX-FPT-2	1/8-27	1/8-27
FPX-FPX-FPT-4	1/4-18	1/4-18
FPX-FPX-FPT-4-4-6	1/4-18	3/8-18
FPX-FPX-FPT-6	3/8-18	3/8-18
FPX-FPX-FPT-6-6-8	3/8-18	1/2-14
FPX-FPX-FPT-8	1/2-14	1/2-14
FPX-FPX-FPT-8-8-12	1/2-14	3/4-14
FPX-FPX-FPT-12	3/4-14	3/4-14
FPX-FPX-FPT-12-12-16	3/4-14	1-11 1/2
FPX-FPX-FPT-16	1-11 1/2	1-11 1/2
FPX-FPX-FPT-20	1 1/4-11 1/2	1 1/4-11 1/2

FEMALE PIPE SWIVEL TEE



PART #	FEMALE PIPE SWIVEL
FPXT-2	1/8-27
FPXT-4	1/4-18
FPXT-6	3/8-18
FPXT-8	1/2-14
FPXT-12	3/4-14
FPXT-16	1-11 1/2
FPXT-20	1 1/4-11 1/2



JIC PIPE ADAPTERS

MALE JIC PIPE ADAPTER



PART #	MALE JIC THREAD	MALE PIPE THREAD
MJ-MP-2-2	5/16-24	1/8-27
MJ-MP-3-2	3/8-24	1/8-27
MJ-MP-4-2	7/16-20	1/8-27
MJ-MP-4-4	7/16-20	1/4-18
MJ-MP-4-6	7/16-20	3/8-18
MJ-MP-4-8	7/16-20	1/2-14
MJ-MP-4-12	7/16-20	3/4-16
MJ-MP-5-2	1/2-20	1/8-27
MJ-MP-5-4	1/2-20	1/4-18
MJ-MP-5-6	1/2-20	3/8-18
MJ-MP-5-8	1/2-20	1/2-14
MJ-MP-6-2	9/16-18	1/8-27
MJ-MP-6-4	9/16-18	1/4-18
MJ-MP-6-6	9/16-18	3/8-18
MJ-MP-6-8	9/16-18	1/2-14
MJ-MP-6-12	9/16-18	3/4-14
MJ-MP-8-4	3/4-16	1/4-18
MJ-MP-8-6	3/4-16	3/8-18
MJ-MP-8-8	3/4-16	1/2-14
MJ-MP-8-12	3/4-16	3/4-14
MJ-MP-8-16	3/4-16	1-11 1/2
MJ-MP-10-6	7/8-14	3/8-18
MJ-MP-10-8	7/8-14	1/2-14
MJ-MP-10-12	7/8-14	3/4-14
MJ-MP-10-16	7/8-14	1-11 1/2
MJ-MP-12-6	1 1/16-12	3/8-18
MJ-MP-12-8	1 1/16-12	1/2-14

PART #	MALE JIC THREAD	MALE PIPE THREAD
MJ-MP-12-12	1 1/16-12	3/4-14
MJ-MP-12-16	1 1/16-12	1-11 1/2
MJ-MP-12-20	1 1/16-12	1 1/4-11 1/2
MJ-MP-14-12	1 3/16-12	3/4-14
MJ-MP-16-8	1 5/16-12	1/2-14
MJ-MP-16-12	1 5/16-12	3/4-14
MJ-MP-16-16	1 5/16-12	1-11 1/2
MJ-MP-16-20	1 5/16-12	1 1/4-11 1/2
MJ-MP-16-24	1 5/16-12	1 1/2-11 1/2
MJ-MP-20-12	1 5/8-12	3/4-16
MJ-MP-20-16	1 5/8-12	1-11 1/2
MJ-MP-20-20	1 5/8-12	1 1/4-11 1/2
MJ-MP-20-24	1 5/8-12	1 1/2-11 1/2
MJ-MP-24-16	1 7/8-12	1-11 1/2
MJ-MP-24-20	1 7/8-12	1 1/4-11 1/2
MJ-MP-24-24	1 7/8-12	1 1/2-11 1/2
MJ-MP-24-32	1 7/8-12	2-11 1/2
MJ-MP-32-24	2 1/2-12	1 1/2-11 1/2
MJ-MP-32-32	2 1/2-12	2-11 1/2

45° MALE JIC PIPE ADAPTER



PART #	MALE JIC THREAD	MALE PIPE THREAD
MJ-MP45-2-2	5/16-24	1/8-27
MJ-MP45-3-2	3/8-24	1/8-27
MJ-MP45-4-2	7/16-20	1/8-27
MJ-MP45-4-4	7/16-20	1/4-18
MJ-MP45-4-6	7/16-20	3/8-18
MJ-MP45-5-2	1/2-20	1/8-27
MJ-MP45-5-4	1/2-20	1/4-18
MJ-MP45-5-6	1/2-20	3/8-18
MJ-MP45-6-2	9/16-18	1/8-27
MJ-MP45-6-4	9/16-18	1/4-18
MJ-MP45-6-6	9/16-18	3/8-18
MJ-MP45-6-8	9/16-18	1/2-14
MJ-MP45-6-12	9/16-18	3/4-14
MJ-MP45-8-4	3/4-16	1/4-18
MJ-MP45-8-6	3/4-16	3/8-18
MJ-MP45-8-8	3/4-16	1/2-14
MJ-MP45-8-12	3/4-16	3/4-14
MJ-MP45-10-6	7/8-14	3/8-18
MJ-MP45-10-8	7/8-14	1/2-14
MJ-MP45-10-12	7/8-14	3/4-14
MJ-MP45-12-8	1 1/16-12	1/2-14
MJ-MP45-12-12	1 1/16-12	3/4-14
MJ-MP45-12-16	1 1/16-12	1-11 1/2
MJ-MP45-14-12	1 3/16-12	3/4-14
MJ-MP45-16-8	1 5/16-12	1/2-14
MJ-MP45-16-12	1 5/16-12	3/4-14
MJ-MP45-16-16	1 5/16-12	1-11 1/2
MJ-MP45-16-20	1 5/16-12	1 1/4-11 1/2
MJ-MP45-20-16	1 5/8-12	1-11 1/2
MJ-MP45-20-20	1 5/8-12	1 1/4-11 1/2
MJ-MP45-20-24	1 5/8-12	1 1/2-11 1/2
MJ-MP45-24-20	1 7/8-12	1 1/4-11 1/2
MJ-MP45-24-24	1 7/8-12	1 1/2-11 1/2
MJ-MP45-32-32	2 1/2-12	2-11 1/2



**90° MALE JIC PIPE
ELBOW**



PART #	MALE JIC THREAD	MALE PIPE THREAD
MJ-MP90-2-2	5/16-24	1/8-27
MJ-MP90-3-2	3/8-24	1/8-27
MJ-MP90-4-2	7/16-20	1/8-27
MJ-MP90-4-4	7/16-20	1/4-18
MJ-MP90-4-6	7/16-20	3/8-18
MJ-MP90-4-8	7/16-20	1/2-14
MJ-MP90-4-12	7/16-20	3/4-14
MJ-MP90-5-2	1/2-20	1/8-27
MJ-MP90-5-4	1/2-20	1/4-18
MJ-MP90-5-6	1/2-20	3/8-18
MJ-MP90-5-8	1/2-20	1/2-14
MJ-MP90-6-2	9/16-18	1/8-27
MJ-MP90-6-4	9/16-18	1/4-18
MJ-MP90-6-6	9/16-18	3/8-18
MJ-MP90-6-8	9/16-18	1/2-14
MJ-MP90-6-12	9/16-18	3/4-14
MJ-MP90-8-4	3/4-16	1/4-18
MJ-MP90-8-6	3/4-16	3/8-18
MJ-MP90-8-8	3/4-16	1/2-14
MJ-MP90-8-12	3/4-16	3/4-14
MJ-MP90-8-16	3/4-16	1-11 1/2
MJ-MP90-10-6	7/8-14	3/8-18
MJ-MP90-10-8	7/8-14	1/2-14
MJ-MP90-10-12	7/8-14	3/4-14
MJ-MP90-12-6	1 1/16-12	3/8-18
MJ-MP90-12-8	1 1/16-12	1/2-14
MJ-MP90-12-12	1 1/16-12	3/4-14
MJ-MP90-12-16	1 1/16-12	1- 11 1/2
MJ-MP90-14-12	1 3/16-12	3/4-14
MJ-MP90-16-8	1 5/16-12	1/2-14
MJ-MP90-16-12	1 5/16-12	3/4-14
MJ-MP90-16-16	1 5/16-12	1- 11 1/2
MJ-MP90-16-20	1 5/16-12	1 1/4- 11 1/2
MJ-MP90-20-12	1 5/8-12	3/4-14
MJ-MP90-20-16	1 5/8-12	1- 11 1/2
MJ-MP90-20-20	1 5/8-12	1 1/4- 11 1/2
MJ-MP90-20-24	1 5/8-12	1 1/2- 11 1/2
MJ-MP90-24-16	1 7/8-12	1- 11 1/2
MJ-MP90-24-20	1 7/8-12	1 1/4- 11 1/2
MJ-MP90-24-24	1 7/8-12	1 1/2- 11 1/2
MJ-MP90-32-24	2 1/2-12	1 1/2- 11 1/2
MJ-MP90-32-32	2 1/2-12	2- 11 1/2

**90° MALE JIC PIPE
ELBOW LONG DROP**



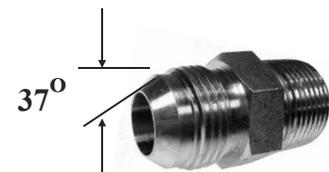
PART #	MALE JIC THREAD	MALE PIPE THREAD
MJ-MP90L-4-2	7/16-20	1/8-27
MJ-MP90L-4-4	7/16-20	1/4-18
MJ-MP90L-5-2	1/2-20	1/8-27
MJ-MP90L-5-4	1/2-20	1/4-18
MJ-MP90L-6-2	9/16-18	1/8-27
MJ-MP90L-6-4	9/16-18	1/4-18
MJ-MP90L-6-6	9/16-18	3/8-18
MJ-MP90L-6-8	9/16-18	1/2-14
MJ-MP90L-8-6	3/4-16	3/8-18
MJ-MP90L-8-8	3/4-16	1/2-14
MJ-MP90L-8-12	3/4-16	3/4-14
MJ-MP90L-10-8	7/8-14	1/2-14
MJ-MP90L-10-12	7/8-14	3/4-14
MJ-MP90L-12-12	1 1/16-12	3/4-14
MJ-MP90L-14-12	1 3/16-12	3/4-14
MJ-MP90L-16-12	1 5/16-12	3/4-14
MJ-MP90L-16-16	1 5/16-12	1-11 1/2
MJ-MP90L-20-20	1 5/8-12	1 1/4-11 1/2
MJ-MP90L-24-24	1 7/8-12	1 1/2-11 1/2

**90° MALE JIC PIPE
ELBOW EXTRA LONG**



PART #	MALE JIC THREAD	MALE PIPE THREAD
MJ-MP90LL-4-2	7/16-20	1/8-27
MJ-MP90LL-4-4	7/16-20	1/4-18
MJ-MP90LL-5-2	1/2-20	1/8-27
MJ-MP90LL-6-4	9/16-18	1/4-18
MJ-MP90LL-6-6	9/16-18	3/8-18
MJ-MP90LL-8-6	3/4-16	3/8-18
MJ-MP90LL-8-8	3/4-16	1/2-14
MJ-MP90LL-10-8	7/8-14	1/2-14
MJ-MP90LL-12-12	1 1/16-12	3/4-14
MJ-MP90LL-16-16	1 5/16-12	1- 11 1/2
MJ-MP90LL-20-20	1 5/8-12	1 1/4- 11 1/2

**NOTE: JIC ADAPTERS
HAVE A 37° SEAT.**





MALE JIC FEMALE PIPE ADAPTER



PART #	MALE JIC THREAD	FEMALE PIPE THREAD
MJ-FP-2-2	5/16-24	1/8-27
MJ-FP-3-2	3/8-24	1/8-27
MJ-FP-4-2	7/16-20	1/8-27
MJ-FP-4-4	7/16-20	1/4-18
MJ-FP-4-6	7/16-20	3/8-18
MJ-FP-4-8	7/16-20	1/2-14
MJ-FP-5-2	1/2-20	1/8-27
MJ-FP-5-4	1/2-20	1/4-18
MJ-FP-6-2	9/16-18	1/8-27
MJ-FP-6-4	9/16-18	1/4-18
MJ-FP-6-6	9/16-18	3/8-18
MJ-FP-6-8	9/16-18	1/2-14
MJ-FP-8-4	3/4-16	1/4-18
MJ-FP-8-6	3/4-16	3/8-18
MJ-FP-8-8	3/4-16	1/2-14
MJ-FP-8-12	3/4-16	3/4-14
MJ-FP-10-6	7/8-14	3/8-18
MJ-FP-10-8	7/8-14	1/2-14
MJ-FP-10-12	7/8-14	3/4-14
MJ-FP-12-8	1 1/16-12	1/2-14
MJ-FP-12-12	1 1/16-12	3/4-14
MJ-FP-12-16	1 1/16-12	1-11 1/2
MJ-FP-14-12	1 3/16-12	3/4-14
MJ-FP-16-12	1 5/16-12	3/4-14
MJ-FP-16-16	1 5/16-12	1-11 1/2
MJ-FP-20-16	1 5/8-12	1-11 1/2
MJ-FP-20-20	1 5/8-12	1 1/4-11 1/2
MJ-FP-24-24	1 7/8-12	1 1/2-11 1/2
MJ-FP-32-32	2 1/2-12	2-11 1/2

45° MALE JIC FEMALE PIPE ELBOW



PART #	MALE JIC THREAD	FEMALE PIPE THREAD
MJ-FP45-4-4	7/16-20	1/4-18
MJ-FP45-6-6	9/16-18	3/8-18
MJ-FP45-8-8	3/4-16	1/2-14
MJ-FP45-12-12	1 1/16-12	3/4-14
MJ-FP45-16-16	1 5/16-12	1-11 1/2

90° MALE JIC FEMALE PIPE ELBOW



PART #	MALE JIC THREAD	FEMALE PIPE THREAD
MJ-FP90-4-2	7/16-20	1/8-27
MJ-FP90-4-4	7/16-20	1/4-18
MJ-FP90-5-4	1/2-20	1/4-18
MJ-FP90-6-2	9/16-18	1/8-27
MJ-FP90-6-4	9/16-18	1/4-18
MJ-FP90-6-6	9/16-18	3/8-18
MJ-FP90-6-8	9/16-18	1/2-14
MJ-FP90-8-6	3/4-16	3/8-18
MJ-FP90-8-8	3/4-16	1/2-14
MJ-FP90-8-12	3/4-16	3/4-14
MJ-FP90-10-6	7/8-14	3/8-18
MJ-FP90-10-8	7/8-14	1/2-14
MJ-FP90-10-12	7/8-14	3/4-14
MJ-FP90-12-8	1 1/16-12	1/2-14
MJ-FP90-12-12	1 1/16-12	3/4-14
MJ-FP90-16-16	1 5/16-12	1-11 1/2
MJ-FP90-20-20	1 5/8-12	1 1/4-11 1/2
MJ-FP90-24-24	1 7/8-12	1 1/2-11 1/2
MJ-FP90-32-32	2 1/2-12	2-11 1/2

MALE JIC UNION



PART #	MALE JIC THREAD	MALE JIC THREAD
MJ-MJ-3-3	3/8-24	3/8-24
MJ-MJ-4-2	7/16-20	5/16-24
MJ-MJ-4-4	7/16-20	7/16-20
MJ-MJ-5-4	1/2-20	7/16-20
MJ-MJ-5-5	1/2-20	1/2-20
MJ-MJ-6-4	9/16-18	7/16-20
MJ-MJ-6-5	9/16-18	1/2-20
MJ-MJ-6-6	9/16-18	9/16-18
MJ-MJ-8-4	3/4-16	7/16-20
MJ-MJ-8-6	3/4-16	9/16-18
MJ-MJ-8-8	3/4-16	3/4-16
MJ-MJ-10-6	7/8-14	9/16-18
MJ-MJ-10-8	7/8-14	3/4-16
MJ-MJ-10-10	7/8-14	7/8-14
MJ-MJ-12-8	1 1/16-12	3/4-16
MJ-MJ-12-10	1 1/16-12	7/8-14
MJ-MJ-12-12	1 1/16-12	1 1/16-12
MJ-MJ-14-12	1 3/16-12	1 1/16-12
MJ-MJ-14-14	1 3/16-12	1 3/16-12
MJ-MJ-16-12	1 5/16-12	1 1/16-12
MJ-MJ-16-16	1 5/16-12	1 5/16-12
MJ-MJ-20-16	1 5/8-12	1 5/16-12
MJ-MJ-20-20	1 5/8-12	1 5/8-12
MJ-MJ-24-20	1 7/8-12	1 5/8-12
MJ-MJ-24-24	1 7/8-12	1 7/8-12
MJ-MJ-32-32	2 1/2-12	2 1/2-12



45° MALE JIC ELBOW



PART #	MALE JIC THREAD	MALE JIC THREAD
MJ-MJ45-6-6	9/16-18	9/16-18
MJ-MJ45-8-8	3/4-16	3/4-16
MJ-MJ45-10-10	7/8-14	7/8-14
MJ-MJ45-12-12	1 1/16-12	1 1/16-12

90° MALE JIC ELBOW



PART #	MALE JIC THREAD	MALE JIC THREAD
MJ-MJ90-2-2	5/16-24	5/16-24
MJ-MJ90-4-4	7/16-20	7/16-20
MJ-MJ90-5-5	1/2-20	1/2-20
MJ-MJ90-6-4	9/16-18	7/16-20
MJ-MJ90-6-6	9/16-18	9/16-18
MJ-MJ90-8-6	3/4-16	9/16-18
MJ-MJ90-8-8	3/4-16	3/4-16
MJ-MJ90-10-8	7/8-14	3/4-16
MJ-MJ90-10-10	7/8-14	7/8-14
MJ-MJ90-12-8	1 1/16-12	3/4-16
MJ-MJ90-12-12	1 1/16-12	1 1/16-12
MJ-MJ90-14-14	1 3/16-12	1 3/16-12
MJ-MJ90-16-12	1 5/16-12	1 1/16-12
MJ-MJ90-16-16	1 5/16-12	1 5/16-12
MJ-MJ90-20-20	1 5/8-12	1 5/8-12
MJ-MJ90-24-24	1 7/8-12	1 7/8-12
MJ-MJ90-32-32	2 1/2-12	2 1/2-12

MALE PIPE-BULKHEAD ADAPTER



PART #	MALE PIPE THREAD	MALE JIC THREAD
MP-MJH-2-4	1/8-27	7/16-20
MP-MJH-4-4	1/4-18	7/16-20
MP-MJH-4-6	1/4-18	9/16-18
MP-MJH-6-6	3/8-18	9/16-18
MP-MJH-6-8	3/8-18	3/4-16
MP-MJH-8-8	1/2-14	3/4-16
MP-MJH-8-10	1/2-14	7/8-14
MP-MJH-12-12	3/4-14	1 1/16-12
MP-MJH-16-16	1-11 1/2	1 5/16-12

FEMALE PIPE-MALE JIC BULKHEAD ADAPTER



PART #	FEMALE PIPE THREAD	MALE JIC THREAD
FP-MJH-2-4	1/8-27	7/16-20
FP-MJH-4-6	1/4-18	9/16-18
FP-MJH-6-6	3/8-18	9/16-18
FP-MJH-6-8	3/8-18	3/4-16
FP-MJH-8-8	1/2-14	3/4-16
FP-MJH-8-10	1/2-14	7/8-14
FP-MJH-12-12	3/4-14	1 1/16-12
FP-MJH-16-16	1-11 1/2	1 5/16-12
FP-MJH-20-20	1 1/4-11 1/2	1 5/8-12

MALE JIC-BULKHEAD ADAPTER



PART #	MALE JIC THREAD	MALE JIC THREAD
MJ-MJH-3-3	3/8-24	3/8-24
MJ-MJH-4-4	7/16-20	7/16-20
MJ-MJH-5-5	1/2-20	1/2-20
MJ-MJH-6-6	9/16-18	9/16-18
MJ-MJH-8-8	3/4-16	3/4-16
MJ-MJH-10-10	7/8-14	7/8-14
MJ-MJH-12-12	1 1/16-12	1 1/16-12
MJ-MJH-14-14	1 3/16-12	1 3/16-12
MJ-MJH-16-16	1 5/16-12	1 5/16-12
MJ-MJH-20-20	1 5/8-12	1 5/8-12
MJ-MJH-24-24	1 7/8-12	1 7/8-12
MJ-MJH-32-32	2 1/2-12	2 1/2-12

BULKHEAD LOCK NUT



PART #	THREAD
HN-2	5/16-24
HN-3	3/8-24
HN-4	7/16-20
HN-5	1/2-20
HN-6	9/16-18
HN-8	3/4-16
HN-10	7/8-14
HN-12	1 1/16-12
HN-14	1 3/16-12
HN-16	1 5/16-12
HN-20	1 5/8-12
HN-24	1 7/8-12
HN-32	2 1/2-12



45° MALE JIC- BULKHEAD ADAPTER



PART #	MALE JIC THREAD	MALE JIC THREAD
MJ-MJH45-4-4	7/16-20	7/16-20
MJ-MJH45-5-5	1/2-20	1/2-20
MJ-MJH45-6-6	9/16-18	9/16-18
MJ-MJH45-8-8	3/4-16	3/4-16
MJ-MJH45-10-10	7/8-14	7/8-14
MJ-MJH45-12-12	1 1/16-12	1 1/16-12
MJ-MJH45-16-16	1 5/8-12	1 5/8-12
MJ-MJH45-20-20	1 5/8-12	1 5/8-12

90° MALE JIC- BULKHEAD ADAPTER



PART #	MALE JIC THREAD	MALE JIC THREAD
MJ-MJH90-4-4	7/16-20	7/16-20
MJ-MJH90-5-5	1/2-20	1/2-20
MJ-MJH90-6-6	9/16-18	9/16-18
MJ-MJH90-8-8	3/4-16	3/4-16
MJ-MJH90-10-10	7/8-14	7/8-14
MJ-MJH90-12-12	1 1/16-12	1 1/16-12
MJ-MJH90-16-16	1 5/8-12	1 5/8-12
MJ-MJH90-20-20	1 5/8-12	1 5/8-12

JIC-BULKHEAD-JIC TEE



PART #	MALE JIC THREAD	MALE JIC THREAD
MJ-MJH-MJT-4	7/16-20	7/16-20
MJ-MJH-MJT-6	9/16-18	9/16-18
MJ-MJH-MJT-8	3/4-16	3/4-16
MJ-MJH-MJT-10	7/8-14	7/8-14
MJ-MJH-MJT-12	1 1/16-12	1 1/16-12
MJ-MJH-MJT-16	1 5/8-12	1 5/8-12
MJ-MJH-MJT-20	1 5/8-12	1 5/8-12
MJ-MJH-MJT-24	1 7/8-12	1 7/8-12

JIC-BULKHEAD TEE



PART #	MALE JIC THREAD	MALE JIC THREAD
MJHT-4	7/16-20	7/16-20
MJHT-5	1/2-20	1/2-20
MJHT-6	9/16-18	9/16-18
MJHT-8	3/4-16	3/4-16
MJHT-10	7/8-14	7/8-14
MJHT-12	1 1/16-12	1 1/16-12
MJHT-16	1 5/8-12	1 5/8-12

Bulkhead "HN" Nuts are
on previous page (19).

JIC REDUCER



PART #	MALE JIC THREAD	FEMALE JIC THREAD
MJ-FJ-3-4	3/8-24	7/16-20
MJ-FJ-4-3	7/16-20	3/8-24
MJ-FJ-4-5	7/16-20	1/2-20
MJ-FJ-4-6	7/16-20	9/16-18
MJ-FJ-4-8	7/16-20	3/4-16
MJ-FJ-4-10	7/16-20	7/8-14
MJ-FJ-4-12	7/16-20	1 1/16-12
MJ-FJ-4-16	7/16-20	1 5/8-12
MJ-FJ-5-6	1/2-20	9/16-18
MJ-FJ-6-4	9/16-18	7/16-20
MJ-FJ-6-8	9/16-18	3/4-16
MJ-FJ-6-10	9/16-18	7/8-14
MJ-FJ-6-12	9/16-18	1 1/16-12
MJ-FJ-6-14	9/16-18	1 3/16-12
MJ-FJ-6-16	9/16-18	1 5/8-12
MJ-FJ-8-6	3/4-16	9/16-18
MJ-FJ-8-10	3/4-16	7/8-14
MJ-FJ-8-12	3/4-16	1 1/16-12
MJ-FJ-8-14	3/4-16	1 3/16-12
MJ-FJ-8-16	3/4-16	1 5/8-12
MJ-FJ-10-6	7/8-14	9/16-18
MJ-FJ-10-8	7/8-14	3/4-16
MJ-FJ-10-12	7/8-14	1 1/16-12
MJ-FJ-10-14	7/8-14	1 3/16-12
MJ-FJ-10-16	7/8-14	1 5/8-12
MJ-FJ-12-8	1 1/16-12	3/4-16
MJ-FJ-12-10	1 1/16-12	7/8-14
MJ-FJ-12-14	1 1/16-12	1 3/16-12
MJ-FJ-12-16	1 1/16-12	1 5/8-12
MJ-FJ-12-20	1 1/16-12	1 5/8-12
MJ-FJ-12-24	1 1/16-12	1 7/8-12
MJ-FJ-16-12	1 5/8-12	1 1/16-12
MJ-FJ-16-20	1 5/8-12	1 5/8-12
MJ-FJ-16-24	1 5/8-12	1 7/8-12
MJ-FJ-16-32	1 5/8-12	2 1/2-12
MJ-FJ-20-16	1 5/8-12	1 5/8-12
MJ-FJ-20-24	1 5/8-12	1 7/8-12
MJ-FJ-24-20	1 7/8-12	1 5/8-12
MJ-FJ-24-32	1 7/8-12	2 1/2-12



**MALE JIC-MALE JIC-
MALE PIPE TEE**



PART #	MALE JIC THREAD	MALE PIPE THREAD
MJ-MJ-MPT-4-4-2	7/16-20	1/8-27
MJ-MJ-MPT-4	7/16-20	1/4-18
MJ-MJ-MPT-4-4-6	7/16-20	3/8-18
MJ-MJ-MPT-5-5-2	1/2-20	1/8-27
MJ-MJ-MPT-5-5-4	1/2-20	1/4-18
MJ-MJ-MPT-6-6-2	9/16-18	1/8-27
MJ-MJ-MPT-6-6-4	9/16-18	1/4-18
MJ-MJ-MPT-6	9/16-18	3/8-18
MJ-MJ-MPT-6-6-8	9/16-18	1/2-14
MJ-MJ-MPT-8-8-6	3/4-16	3/8-18
MJ-MJ-MPT-8	3/4-16	1/2-14
MJ-MJ-MPT-10-10-6	7/8-14	3/8-18
MJ-MJ-MPT-10-10-8	7/8-14	1/2-14
MJ-MJ-MPT-10-10-12	7/8-14	3/4-14
MJ-MJ-MPT-12	1 1/16-12	3/4-14
MJ-MJ-MPT-14-14-12	1 3/16-12	3/4-14
MJ-MJ-MPT-16-16-12	1 5/16-12	3/4-14
MJ-MJ-MPT-16	1 5/16-12	1-11 1/2
MJ-MJ-MPT-20	1 5/8-12	1 1/4-11 1/2
MJ-MJ-MPT-24	1 7/8-12	1 1/2-11 1/2
MJ-MJ-MPT-32	2 1/2-12	2-11 1/2

**MALE JIC-MALE JIC-
FEMALE PIPE TEE**



PART #	MALE JIC THREAD	FEMALE PIPE THREAD
MJ-MJ-FPT-4-4-2	7/16-20	1/8-27
MJ-MJ-FPT-4	7/16-20	1/4-18
MJ-MJ-FPT-5-5-2	1/2-20	1/8-27
MJ-MJ-FPT-6-6-4	9/16-18	1/4-18
MJ-MJ-FPT-6	9/16-18	3/8-18
MJ-MJ-FPT-8-8-4	3/4-16	1/4-18
MJ-MJ-FPT-8-8-6	3/4-16	3/8-18
MJ-MJ-FPT-8	3/4-16	1/2-14
MJ-MJ-FPT-10-10-4	7/8-14	1/4-18
MJ-MJ-FPT-10-10-8	7/8-14	1/2-14
MJ-MJ-FPT-12-12-8	1 1/16-12	1/2-14
MJ-MJ-FPT-12	1 1/16-12	3/4-14
MJ-MJ-FPT-16-16-12	1 5/16-12	3/4-14
MJ-MJ-FPT-16	1 5/16-12	1-11 1/2
MJ-MJ-FPT-20	1 5/8-12	1 1/4-11 1/2
MJ-MJ-FPT-24	1 7/8-12	1 1/2-11 1/2

**MALE JIC-MALE PIPE-
MALE JIC TEE**



PART #	MALE JIC THREAD	MALE PIPE THREAD
MJ-MP-MJT-4-2-4	7/16-20	1/8-27
MJ-MP-MJT-4	7/16-20	1/4-18
MJ-MP-MJT-5-2-5	1/2-20	1/8-27
MJ-MP-MJT-6-4-6	9/16-18	1/4-18
MJ-MP-MJT-6	9/16-18	3/8-18
MJ-MP-MJT-8-4-8	3/4-16	1/4-18
MJ-MP-MJT-8-6-8	3/4-16	3/8-18
MJ-MP-MJT-8-8-6	3/4-16	1/2-14
MJ-MP-MJT-8	3/4-16	1/2-14
MJ-MP-MJT-8-12-8	3/4-16	3/4-14
MJ-MP-MJT-10-8-10	7/8-14	1/2-14
MJ-MP-MJT-10-12-10	7/8-14	3/4-14
MJ-MP-MJT-12	1 1/16-12	3/4-14
MJ-MP-MJT-14-12-14	1 3/16-12	3/4-14
MJ-MP-MJT-16-12-16	1 5/16-12	3/4-14
MJ-MP-MJT-16	1 5/16-12	1- 11/2
MJ-MP-MJT-20-16-20	1 5/8-12	1- 11 1/2
MJ-MP-MJT-20	1 5/8-12	1 1/4- 11 1/2
MJ-MP-MJT-24	1 7/8-12	1 1/2- 11 1/2
MJ-MP-MJT-32	2 1/2-12	2- 11 1/2



MALE JIC-FEMALE PIPE- MALE JIC TEE



PART #	MALE JIC THREAD	FEMALE PIPE THREAD
MJ-FP-MJT-4-2-4	7/16-20	1/8-27
MJ-FP-MJT-4	7/16-20	1/4-18
MJ-FP-MJT-5-2-5	1/2-20	1/8-27
MJ-FP-MJT-6-4-6	9/16-18	1/4-18
MJ-FP-MJT-6	9/16-18	3/8-18
MJ-FP-MJT-8-6-8	3/4-16	3/8-18
MJ-FP-MJT-8	3/4-16	1/2-14
MJ-FP-MJT-10-8-10	7/8-14	1/2-14
MJ-FP-MJT-12	1 1/16-12	3/4-14
MJ-FP-MJT-16	1 5/16-12	1-11 1/2
MJ-FP-MJT-24	1 7/8-12	1 1/2-11 1/2

MALE JIC TEE



PART #	MALE JIC THREAD	MALE JIC THREAD
MJT-4	7/16-20	
MJT-4-4-6	7/16-20	9/16-18
MJT-5	1/2-20	
MJT-6	9/16-18	
MJT-8-8-6	3/4-16	9/16-18
MJT-8	3/4-16	
MJT-8-8-10	3/4-16	7/8-14
MJT-10-10-8	7/8-14	3/4-16
MJT-10	7/8-14	
MJT-10-10-12	7/8-14	1 1/16-12
MJT-12	1 1/16-12	
MJT-12-12-16	1 1/16-12	1 5/16-12
MJT-14	1 3/16-12	
MJT-16-16-12	1 5/16-12	1 1/16-12
MJT-16	1 5/16-12	
MJT-20-20-16	1 5/8-12	1 5/16-12
MJT-20	1 5/8-12	
MJT-24	1 7/8-12	

MALE JIC CROSS



PART #	MALE JIC THREAD
MJR-4	7/16-20
MJR-5	1/2-20
MJR-6	9/16-18
MJR-8	3/4-16
MJR-10	7/8-14
MJR-12	1 1/16-12
MJR-14	1 3/16-12
MJR-16	1 5/16-12
MJR-20	1 5/8-12



JIC SWIVELS

GAUGE ADAPTER TEE



PART #	JIC	GAUGE PORT
MJ-FJX-FPT-4-4-4	7/16-20	1/4-18
MJ-FJX-FPT-6-6-4	9/16-18	1/4-18
MJ-FJX-FPT-8-8-4	3/4-16	1/4-18
MJ-FJX-FPT-10-10-4	7/8-14	1/4-18
MJ-FJX-FPT-12-12-4	1 1/16-12	1/4-18
MJ-FJX-FPT-16-16-4	1 5/16-12	1/4-18

MALE PIPE-FEMALE JIC SWIVEL ADAPTER



PART #	MALE PIPE THREAD	FEMALE JIC SWIVEL
MP-FJX-2-2	1/8-27	5/16-24
MP-FJX-2-4	1/8-27	7/16-20
MP-FJX-4-4	1/4-18	7/16-20
MP-FJX-4-5	1/4-18	1/2-20
MP-FJX-4-6	1/4-18	9/16-18
MP-FJX-6-6	3/8-18	9/16-18
MP-FJX-6-8	3/8-18	3/4-16
MP-FJX-8-8	1/2-14	3/4-16
MP-FJX-8-10	1/2-14	7/8-14
MP-FJX-8-12	1/2-14	1 1/16-12
MP-FJX-12-12	3/4-14	1 1/16-12
MP-FJX-12-16	3/4-14	1 5/16-12
MP-FJX-16-16	1-11 1/2	1 5/16-12
MP-FJX-20-20	1 1/4-11 1/2	1 5/8-12
MP-FJX-24-24	1 1/2-11 1/2	1 7/8-12

90° MALE PIPE- FEMALE JIC SWIVEL ELBOW



PART #	MALE PIPE THREAD	FEMALE JIC SWIVEL
MP-FJX90-2-2	1/8-27	5/16-24
MP-FJX90-4-4	1/4-18	7/16-20
MP-FJX90-4-6	1/4-18	9/16-18
MP-FJX90-6-6	3/8-18	9/16-18
MP-FJX90-6-8	3/8-18	3/4-16
MP-FJX90-8-8	1/2-14	3/4-16
MP-FJX90-8-10	1/2-14	7/8-14
MP-FJX90-12-12	3/4-14	1 1/16-12
MP-FJX90-12-14	3/4-14	1 3/16-12
MP-FJX90-16-16	1-11 1/2	1 5/16-12
MP-FJX90-20-20	1 1/4-11 1/2	1 5/8-12
MP-FJX90-24-24	1 1/2-11 1/2	1 7/8-12

FEMALE PIPE-FEMALE JIC SWIVEL



PART #	FEMALE PIPE THREAD	FEMALE JIC SWIVEL
FP-FJX-4-4	1/4-18	7/16-20
FP-FJX-4-6	1/4-18	9/16-18
FP-FJX-6-6	3/8-18	9/16-18
FP-FJX-6-8	3/8-18	3/4-16
FP-FJX-6-10	3/8-18	7/8-14
FP-FJX-8-6	1/2-14	9/16-18
FP-FJX-8-8	1/2-14	3/4-16
FP-FJX-8-10	1/2-14	7/8-14
FP-FJX-12-10	3/4-14	7/8-14
FP-FJX-12-12	3/4-14	1 1/16-12
FP-FJX-12-14	3/4-14	1 3/16-12
FP-FJX-16-16	1- 11 1/2	1 5/16-12
FP-FJX-20-20	1 1/4- 11 1/2	1 5/8-12

MALE JIC-FEMALE JIC SWIVEL



PART #	MALE JIC THREAD	FEMALE JIC SWIVEL
MJ-FJX-4-4	7/16-20	7/16-20
MJ-FJX-6-6	9/16-18	9/16-18
MJ-FJX-8-8	3/4-16	3/4-16
MJ-FJX-10-10	7/8-14	7/8-14
MJ-FJX-12-12	1 1/16-12	1 1/16-12
MJ-FJX-16-16	1 5/16-12	1 5/16-12
MJ-FJX-20-20	1 5/8-12	1 5/8-12



**45° MALE JIC-FEMALE JIC
SWIVEL**



PART #	MALE JIC THREAD	FEMALE JIC SWIVEL
MJ-FJX45-4-4	7/16-20	7/16-20
MJ-FJX45-5-5	1/2-20	1/2-20
MJ-FJX45-6-6	9/16-18	9/16-18
MJ-FJX45-8-8	3/4-16	3/4-16
MJ-FJX45-10-10	7/8-14	7/8-14
MJ-FJX45-12-12	1 1/16-12	1 1/16-12
MJ-FJX45-16-16	1 5/16-12	1 5/16-12
MJ-FJX45-20-20	1 5/8-12	1 5/8-12
MJ-FJX45-24-24	1 7/8-12	1 7/8-12
MJ-FJX45-32-32	2 1/2-12	2 1/2-12

**90° MALE JIC- FEMALE
JIC SWIVEL ELBOW**



PART #	MALE JIC THREAD	FEMALE JIC SWIVEL
MJ-FJX90-4-4	7/16-20	7/16-20
MJ-FJX90-4-6	7/16-20	9/16-18
MJ-FJX90-5-5	1/2-20	1/2-20
MJ-FJX90-5-6	1/2-20	9/16-18
MJ-FJX90-6-4	9/16-18	7/16-20
MJ-FJX90-6-6	9/16-18	9/16-18
MJ-FJX90-6-8	9/16-18	3/4-16
MJ-FJX90-8-6	3/4-16	9/16-18
MJ-FJX90-8-8	3/4-16	3/4-16
MJ-FJX90-10-8	7/8-14	3/4-16
MJ-FJX90-10-10	7/8-14	7/8-14
MJ-FJX90-12-10	1 1/16-12	7/8-14
MJ-FJX90-12-12	1 1/16-12	1 1/16-12
MJ-FJX90-14-14	1 3/16-12	1 3/16-12
MJ-FJX90-16-16	1 5/16-12	1 5/16-12
MJ-FJX90-20-20	1 5/8-12	1 5/8-12
MJ-FJX90-24-24	1 7/8-12	1 7/8-12
MJ-FJX90-32-32	2 1/2-12	2 1/2-12

**FEMALE JIC SWIVEL -
FEMALE JIC SWIVEL**



PART #	FEMALE JIC SWIVEL	FEMALE JIC SWIVEL
FJX-FJX-4-4	7/16-20	7/16-20
FJX-FJX-6-6	9/16-18	9/16-18
FJX-FJX-8-8	3/4-16	3/4-16
FJX-FJX-10-10	7/8-14	7/8-14
FJX-FJX-12-12	1 1/16-12	1 1/16-12
FJX-FJX-16-16	1 5/16-12	1 5/16-12

**90° MALE JIC-FEMALE
JIC SWIVEL ELBOW
LONG DROP**



PART #	MALE JIC THREAD	FEMALE JIC SWIVEL
MJ-FJX90L-4-4	7/16-20	7/16-20
MJ-FJX90L-6-6	9/16-18	9/16-18
MJ-FJX90L-8-8	3/4-16	3/4-16
MJ-FJX90L-10-10	7/8-14	7/8-14
MJ-FJX90L-12-12	1 1/16-12	1 1/16-12
MJ-FJX90L-16-16	1 5/16-12	1 5/16-12

**MALE JIC-MALE JIC-
FEMALE JIC SWIVEL TEE**



PART #	MALE JIC THREAD	FEMALE JIC SWIVEL
MJ-MJ-FJXT-4	7/16-20	7/16-20
MJ-MJ-FJXT-5	1/2-20	1/2-20
MJ-MJ-FJXT-6	9/16-18	9/16-18
MJ-MJ-FJXT-8	3/4-16	3/4-16
MJ-MJ-FJXT-10	7/8-14	7/8-14
MJ-MJ-FJXT-12	1 1/16-12	1 1/16-12
MJ-MJ-FJXT-14	1 3/16-12	1 3/16-12
MJ-MJ-FJXT-16	1 5/16-12	1 5/16-12
MJ-MJ-FJXT-20	1 5/8-12	1 5/8-12
MJ-MJ-FJXT-24	1 7/8-12	1 7/8-12
MJ-MJ-FJXT-32	2 1/2-12	2 1/2-12

**MALE JIC-FEMALE JIC
SWIVEL-MALE JIC TEE**



PART #	MALE JIC THREAD	FEMALE JIC SWIVEL
MJ-FJX-MJT-4	7/16-20	7/16-20
MJ-FJX-MJT-5	1/2-20	1/2-20
MJ-FJX-MJT-6-6-4	9/16-18 / 7/16-20	9/16-18
MJ-FJX-MJT-6	9/16-18	9/16-18
MJ-FJX-MJT-8	3/4-16	3/4-16
MJ-FJX-MJT-10	7/8-14	7/8-14
MJ-FJX-MJT-12	1 1/16-12	1 1/16-12
MJ-FJX-MJT-14	1 3/16-12	1 3/16-12
MJ-FJX-MJT-16	1 5/16-12	1 5/16-12
MJ-FJX-MJT-20	1 5/8-12	1 5/8-12
MJ-FJX-MJT-24	1 7/8-12	1 7/8-12
MJ-FJX-MJT-32	2 1/2-12	2 1/2-12



STRAIGHT THREAD O-RING “BOSS”

MALE PIPE-MALE BOSS O-RING ADAPTER



PART #	MALE PIPE THREAD	MALE BOSS THREAD
MP-MB-2-4	1/8-27	7/16-20
MP-MB-2-5	1/8-27	1/2-20
MP-MB-2-6	1/8-27	9/16-18
MP-MB-4-4	1/4-18	7/16-20
MP-MB-4-6	1/4-18	9/16-18
MP-MB-6-6	3/8-18	9/16-18
MP-MB-6-8	3/8-18	3/4-16
MP-MB-8-6	1/2-14	9/16-18
MP-MB-8-8	1/2-14	3/4-16
MP-MB-8-10	1/2-14	7/8-14
MP-MB-8-12	1/2-14	1 1/16-12
MP-MB-12-8	3/4-14	3/4-16
MP-MB-12-10	3/4-14	7/8-14
MP-MB-12-12	3/4-14	1 1/16-12
MP-MB-12-16	3/4-14	1 5/16-12
MP-MB-16-12	1-11 1/2	1 1/16-12
MP-MB-16-16	1-11 1/2	1 5/16-12
MP-MB-20-20	1 1/4-11 1/2	1 5/8-12
MP-MB-24-24	1 1/2-11 1/2	1 7/8-12
MP-MB-32-32	2-11 1/2	2 1/2-12

90° MALE PIPE-MALE BOSS O-RING ELBOW



PART #	MALE PIPE THREAD	MALE BOSS THREAD
MP-MB90-2-4	1/8-27	7/16-20
MP-MB90-4-4	1/4-18	7/16-20
MP-MB90-4-6	1/4-18	9/16-18
MP-MB90-6-6	3/8-18	9/16-18
MP-MB90-6-8	3/8-18	3/4-16
MP-MB90-8-8	1/2-14	3/4-16
MP-MB90-8-10	1/2-14	7/8-14
MP-MB90-12-12	3/4-14	1 1/16-12
MP-MB90-12-16	3/4-14	1 5/16-12
MP-MB90-16-16	1-11 1/2	1 5/16-12
MP-MB90-20-20	1 1/4-11 1/2	1 5/8-12
MP-MB90-24-24	1 1/2-11 1/2	1 7/8-12
MP-MB90-32-32	2-11 1/2	2 1/2-12

MALE PIPE-FEMALE BOSS O-RING ADAPTER



PART #	MALE PIPE THREAD	FEMALE BOSS THREAD
MP-FB-2-4	1/8-27	7/16-20
MP-FB-4-4	1/4-18	7/16-20
MP-FB-4-5	1/4-18	1/2-20
MP-FB-4-6	1/4-18	9/16-18
MP-FB-6-4	3/8-18	7/16-20
MP-FB-6-6	3/8-18	9/16-18
MP-FB-6-8	3/8-18	3/4-16
MP-FB-6-10	3/8-18	7/8-14
MP-FB-8-6	1/2-14	9/16-18
MP-FB-8-8	1/2-14	3/4-16
MP-FB-8-10	1/2-14	7/8-14
MP-FB-8-12	1/2-14	1 1/16-12
MP-FB-12-12	3/4-14	1 1/16-12
MP-FB-12-14	3/4-14	1 3/16-12
MP-FB-12-16	3/4-14	1 5/16-12
MP-FB-16-16	1-11 1/2	1 5/16-12
MP-FB-16-20	1-11 1/2	1 5/8-12
MP-FB-20-20	1 1/4-11 1/2	1 5/8-12
MP-FB-24-24	1 1/2-11 1/2	1 7/8-12



MALE BOSS-MALE BOSS ADAPTER



PART #	MALE BOSS THREAD	MALE BOSS THREAD
MB-MB-4-4	7/16-20	7/16-20
MB-MB-6-4	9/16-18	7/16-20
MB-MB-6-6	9/16-18	9/16-18
MB-MB-8-6	3/4-16	9/16-18
MB-MB-8-8	3/4-16	3/4-16
MB-MB-10-8	7/8-14	3/4-16
MB-MB-10-10	7/8-14	7/8-14
MB-MB-12-10	1 1/16-12	7/8-14
MB-MB-12-8	1 1/16-12	3/4-16
MB-MB-12-12	1 1/16-12	1 1/16-12
MB-MB-12-16	1 1/16-12	1 5/16-12
MB-MB-16-12	1 5/16-12	1 1/16-12
MB-MB-16-16	1 5/16-12	1 5/16-12
MB-MB-20-20	1 5/8-12	1 5/8-12
MB-MB-24-24	1 7/8-12	1 7/8-12

90° MALE BOSS-MALE BOSS ADAPTER



PART #	MALE BOSS THREAD	MALE BOSS THREAD
MB-MB90-6-6	9/16-18	9/16-18
MB-MB90-8-8	3/4-16	3/4-16
MB-MB90-10-10	7/8-14	7/8-14
MB-MB90-12-12	1 1/16-12	1 1/16-12
MB-MB90-16-16	1 5/16-12	1 5/16-12
MB-MB90-20-20	1 5/8-12	1 5/8-12

MALE BOSS O-RING- FEMALE PIPE ADAPTER



PART #	MALE BOSS THREAD	FEMALE PIPE THREAD
MB-FP-2-4	5/16-24	1/4-18
MB-FP-4-2	7/16-20	1/8-27
MB-FP-4-4	7/16-20	1/4-18
MB-FP-4-6	7/16-20	3/8-18
MB-FP-5-2	1/2-20	1/8-27
MB-FP-5-4	1/2-20	1/4-18
MB-FP-6-2	9/16-18	1/8-27
MB-FP-6-4	9/16-18	1/4-18
MB-FP-6-6	9/16-18	3/8-18
MB-FP-6-8	9/16-18	1/2-14
MB-FP-8-4	3/4-16	1/4-18
MB-FP-8-6	3/4-16	3/8-18
MB-FP-8-8	3/4-16	1/2-14
MB-FP-8-12	3/4-16	3/4-14
MB-FP-10-4	7/8-14	1/4-18
MB-FP-10-6	7/8-14	3/8-18
MB-FP-10-8	7/8-14	1/2-14
MB-FP-10-12	7/8-14	3/4-14
MB-FP-12-4	1 1/16-12	1/4-18
MB-FP-12-6	1 1/16-12	3/8-18
MB-FP-12-8	1 1/16-12	1/2-14
MB-FP-12-12	1 1/16-12	3/4-14
MB-FP-12-16	1 1/16-12	1-11 1/2
MB-FP-14-12	1 3/16-12	3/4-14
MB-FP-16-6	1 5/16-12	3/8-18
MB-FP-16-8	1 5/16-12	1/2-14
MB-FP-16-12	1 5/16-12	3/4-14
MB-FP-16-16	1 5/16-12	1-11 1/2
MB-FP-16-20	1 5/16-12	1 1/4-11 1/2
MB-FP-20-8	1 5/8-12	1/2-14
MB-FP-20-12	1 5/8-12	3/4-14
MB-FP-20-16	1 5/8-12	1-11 1/2
MB-FP-20-20	1 5/8-12	1 1/4-11 1/2
MB-FP-20-24	1 5/8-12	1 1/2-11 1/2
MB-FP-24-16	1 7/8-12	1-11 1/2
MB-FP-24-20	1 7/8-12	1 1/4-11 1/2

PART #	MALE BOSS THREAD	FEMALE PIPE THREAD
MB-FP-24-24	1 7/8-12	1 1/2-11 1/2
MB-FP-32-16	2 1/2-12	1-11 1/2
MB-FP-32-20	2 1/2-12	1 1/4-11 1/2
MB-FP-32-24	2 1/2-12	1 1/2-11 1/2
MB-FP-32-32	2 1/2-12	2-11 1/2



90° MALE BOSS O-RING- FEMALE PIPE ELBOW



PART #	MALE BOSS THREAD	FEMALE PIPE THREAD
MB-FP90-4-2	7/16-20	1/8-27
MB-FP90-4-4	7/16-20	1/4-18
MB-FP90-5-2	1/2-20	1/8-27
MB-FP90-6-4	9/16-18	1/4-18
MB-FP90-6-6	9/16-18	3/8-18
MB-FP90-8-6	3/4-16	3/8-18
MB-FP90-8-8	3/4-16	1/2-14
MB-FP90-10-6	7/8-14	3/8-18
MB-FP90-10-8	7/8-14	1/2-14
MB-FP90-12-8	1 1/16-12	1/2-14
MB-FP90-12-12	1 1/16-12	3/4-14
MB-FP90-16-12	1 5/16-12	3/4-14
MB-FP90-16-16	1 5/16-12	1-11 1/2
MB-FP90-20-20	1 5/8-12	1 1/4-11 1/2
MB-FP90-24-24	1 7/8-12	1 1/2-11 1/2
MB-FP90-32-32	2 1/2-12	2 -11 1/2

MALE BOSS-FEMALE BOSS O-RING ADAPTER



PART #	MALE BOSS THREAD	FEMALE BOSS THREAD
MB-FB-4-6	7/16-20	9/16-18
MB-FB-5-4	1/2-20	7/16-20
MB-FB-6-4	9/16-18	7/16-20
MB-FB-6-6	9/16-18	9/16-18
MB-FB-6-8	9/16-18	3/4-16
MB-FB-8-4	3/4-16	7/16-20
MB-FB-8-6	3/4-16	9/16-18
MB-FB-8-10	3/4-16	7/8-14
MB-FB-8-12	3/4-16	1 1/16-12
MB-FB-10-4	7/8-14	7/16-20
MB-FB-10-6	7/8-14	9/16-18
MB-FB-10-8	7/8-14	3/4-16
MB-FB-10-12	7/8-14	1 1/16-12
MB-FB-12-4	1 1/16-12	7/16-20
MB-FB-12-6	1 1/16-12	9/16-18
MB-FB-12-8	1 1/16-12	3/4-16
MB-FB-12-10	1 1/16-12	7/8-14
MB-FB-12-12	1 1/16-12	1 1/16-12
MB-FB-12-16	1 1/16-12	1 5/16-12
MB-FB-14-12	1 3/16-12	1 1/16-12
MB-FB-16-6	1 5/16-12	9/16-18
MB-FB-16-8	1 5/16-12	3/4-16
MB-FB-16-10	1 5/16-12	7/8-14
MB-FB-16-12	1 5/16-12	1 1/16-12
MB-FB-16-16	1 5/16-12	1 5/16-12
MB-FB-20-12	1 5/8-12	1 1/16-12
MB-FB-20-16	1 5/8-12	1 5/16-12
MB-FB-24-12	1 7/8-12	1 1/16-12
MB-FB-24-16	1 7/8-12	1 5/16-12
MB-FB-24-20	1 7/8-12	1 5/8-12
MB-FB-32-20	2 1/2-12	1 5/8-12
MB-FB-32-24	2 1/2-12	1 7/8-12



**MALE BOSS O-RING-
FEMALE PIPE SWIVEL
ADAPTER**



PART #	MALE BOSS THREAD	FEMALE PIPE SWIVEL
MB-FPX-4-2	7/16-20	1/8-27
MB-FPX-4-4	7/16-20	1/4-18
MB-FPX-4-6	7/16-20	3/8-18
MB-FPX-5-4	1/2-20	1/4-18
MB-FPX-5-8	1/2-20	1/2-14
MB-FPX-6-4	9/16-18	1/4-18
MB-FPX-6-6	9/16-18	3/8-18
MB-FPX-6-8	9/16-18	1/2-14
MB-FPX-8-4	3/4-16	1/4-18
MB-FPX-8-6	3/4-16	3/8-18
MB-FPX-8-8	3/4-16	1/2-14
MB-FPX-8-12	3/4-16	3/4-14
MB-FPX-10-6	7/8-14	3/8-18
MB-FPX-10-8	7/8-14	1/2-14
MB-FPX-10-12	7/8-14	3/4-14
MB-FPX-12-6	1 1/16-12	3/8-18
MB-FPX-12-8	1 1/16-12	1/2-14
MB-FPX-12-12	1 1/16-12	3/4-14
MB-FPX-12-16	1 1/16-12	1-11 1/2
MB-FPX-14-12	1 3/16-12	3/4-14
MB-FPX-16-8	1 5/16-12	1/2-14
MB-FPX-16-12	1 5/16-12	3/4-14
MB-FPX-16-16	1 5/16-12	1-11 1/2
MB-FPX-16-20	1 5/16-12	1 1/4-11 1/2
MB-FPX-20-16	1 5/8-12	1-11 1/2
MB-FPX-20-20	1 5/8-12	1 1/4-11 1/2
MB-FPX-24-20	1 7/8-12	1 1/4-11 1/2
MB-FPX-24-24	1 7/8-12	1 1/2-11 1/2
MB-FPX-32-32	2 1/2-12	2-11 1/2

**45° MALE BOSS O-RING-
FEMALE PIPE SWIVEL
ELBOW**



PART #	MALE BOSS THREAD	FEMALE PIPE SWIVEL
MB-FPX45-4-4	7/16-20	1/4-18
MB-FPX45-4-6	7/16-20	3/8-18
MB-FPX45-6-4	9/16-18	1/4-18
MB-FPX45-6-6	9/16-18	3/8-18
MB-FPX45-6-8	9/16-18	1/2-14
MB-FPX45-8-6	3/4-16	3/8-18
MB-FPX45-8-8	3/4-16	1/2-14
MB-FPX45-8-12	3/4-16	3/4-14
MB-FPX45-10-6	7/8-14	3/8-18
MB-FPX45-10-8	7/8-14	1/2-14
MB-FPX45-10-12	7/8-14	3/4-14
MB-FPX45-12-8	1 1/16-12	1/2-14
MB-FPX45-12-12	1 1/16-12	3/4-14
MB-FPX45-16-12	1 5/16-12	3/4-14
MB-FPX45-16-16	1 5/16-12	1-11 1/2
MB-FPX45-20-16	1 5/8-12	1-11 1/2
MB-FPX45-20-20	1 5/8-12	1 1/4-11 1/2
MB-FPX45-24-24	1 7/8-12	1 1/2-11 1/2

**90° MALE BOSS O-RING-
FEMALE PIPE SWIVEL
ELBOW**



PART #	MALE BOSS THREAD	FEMALE PIPE SWIVEL
MB-FPX90-4-2	7/16-20	1/8-27
MB-FPX90-4-4	7/16-20	1/4-18
MB-FPX90-4-6	7/16-20	3/8-18
MB-FPX90-5-4	1/2-20	1/4-18
MB-FPX90-6-4	9/16-18	1/4-18
MB-FPX90-6-6	9/16-18	3/8-18
MB-FPX90-6-8	9/16-18	1/2-14
MB-FPX90-8-4	3/4-16	1/4-18
MB-FPX90-8-6	3/4-16	3/8-18
MB-FPX90-8-8	3/4-16	1/2-14
MB-FPX90-8-12	3/4-16	3/4-14
MB-FPX90-10-6	7/8-14	3/8-18
MB-FPX90-10-8	7/8-14	1/2-14
MB-FPX90-10-12	7/8-14	3/4-14
MB-FPX90-12-6	1 1/16-12	3/8-18
MB-FPX90-12-8	1 1/16-12	1/2-14
MB-FPX90-12-12	1 1/16-12	3/4-14
MB-FPX90-12-16	1 1/16-12	1-11 1/2
MB-FPX90-14-12	1 3/16-12	3/4-14
MB-FPX90-16-12	1 5/16-12	3/4-14
MB-FPX90-16-16	1 5/16-12	1-11 1/2
MB-FPX90-16-20	1 5/16-12	1 1/4-11 1/2
MB-FPX90-20-12	1 5/8-12	3/4-14
MB-FPX90-20-16	1 5/8-12	1-11 1/2
MB-FPX90-20-20	1 5/8-12	1 1/4-11 1/2
MB-FPX90-24-24	1 7/8-12	1 1/2-11 1/2



**MALE BOSS O-RING-
MALE JIC**



**45° MALE BOSS O-RING-
MALE JIC**



PART #	MALE BOSS THREAD	MALE JIC THREAD
MB-MJ-2-2	5/16-24	5/16-24
MB-MJ-2-4	5/16-24	7/16-20
MB-MJ-3-3	3/8-24	3/8-24
MB-MJ-3-4	3/8-24	7/16-20
MB-MJ-4-3	7/16-20	3/8-24
MB-MJ-4-4	7/16-20	7/16-20
MB-MJ-4-5	7/16-20	1/2-20
MB-MJ-4-6	7/16-20	9/16-18
MB-MJ-4-8	7/16-20	3/4-16
MB-MJ-5-4	1/2-20	7/16-20
MB-MJ-5-5	1/2-20	1/2-20
MB-MJ-5-6	1/2-20	9/16-18
MB-MJ-6-4	9/16-18	7/16-20
MB-MJ-6-5	9/16-18	1/2-20
MB-MJ-6-6	9/16-18	9/16-18
MB-MJ-6-8	9/16-18	3/4-16
MB-MJ-6-10	9/16-18	7/8-14
MB-MJ-6-12	9/16-18	1 1/16-12
MB-MJ-8-4	3/4-16	7/16-20
MB-MJ-8-6	3/4-16	9/16-18
MB-MJ-8-8	3/4-16	3/4-16
MB-MJ-8-10	3/4-16	7/8-14
MB-MJ-8-12	3/4-16	1 1/16-12
MB-MJ-10-4	7/8-14	7/16-20
MB-MJ-10-6	7/8-14	9/16-18
MB-MJ-10-8	7/8-14	3/4-16
MB -MJ-10-10	7/8-14	7/8-14
MB-MJ-10-12	7/8-14	1 1/16-12
MB-MJ-10-14	7/8-14	1 3/16-12
MB-MJ-10-16	7/8-14	1 5/16-12
MB-MJ-12-6	1 1/16-12	9/16-18
MB-MJ-12-8	1 1/16-12	3/4-16
MB-MJ-12-10	1 1/16-12	7/8-14
MB-MJ-12-12	1 1/16-12	1 1/16-12
MB-MJ-12-14	1 1/16-12	1 3/16-12
MB-MJ-12-16	1 1/16-12	1 5/16-12
MB-MJ-12-20	1 1/16-12	1 5/8-12

PART #	MALE BOSS THREAD	MALE JIC THREAD
MB-MJ-14-12	1 3/16-12	1 1/16-12
MB-MJ-14-14	1 3/16-12	1 3/16-12
MB-MJ-14-16	1 3/16-12	1 5/16-12
MB-MJ-16-8	1 5/16-12	3/4-16
MB-MJ-16-10	1 5/16-12	7/8-14
MB-MJ-16-12	1 5/16-12	1 1/16-12
MB-MJ-16-16	1 5/16-12	1 5/16-12
MB-MJ-16-20	1 5/16-12	1 5/8-12
MB-MJ-20-10	1 5/8-12	7/8-14
MB-MJ-20-12	1 5/8-12	1 1/16-12
MB-MJ-20-16	1 5/8-12	1 5/16-12
MB-MJ-20-20	1 5/8-12	1 5/8-12
MB-MJ-20-24	1 5/8-12	1 7/8-12
MB-MJ-24-16	1 7/8-12	1 5/16-12
MB-MJ-24-20	1 7/8-12	1 5/8-12
MB-MJ-24-24	1 7/8-12	1 7/8-12
MB-MJ-24-32	1 7/8-12	2 1/2-12
MB-MJ-32-24	2 1/2-12	1 7/8-12
MB-MJ-32-32	2 1/2-12	2 1/2-12

PART #	MALE BOSS THREAD	MALE JIC THREAD
MB-MJ45-4-4	7/16-20	7/16-20
MB-MJ45-4-5	7/16-20	1/2-20
MB -MJ45-4-6	7/16-20	9/16-18
MB-MJ45-5-4	1/2-20	7/16-20
MB-MJ45-5-5	1/2-20	1/2-20
MB-MJ45-6-4	9/16-18	7/16-20
MB-MJ45-6-6	9/16-18	9/16-18
MB-MJ45-6-8	9/16-18	3/4-16
MB-MJ45-8-4	3/4-16	7/16-20
MB-MJ45-8-6	3/4-16	9/16-18
MB-MJ45-8-8	3/4-16	3/4-16
MB-MJ45-8-10	3/4-16	7/8-14
MB-MJ45-8-12	3/4-16	1 1/16-12
MB-MJ45-10-6	7/8-14	9/16-18
MB-MJ45-10-8	7/8-14	3/4-16
MB-MJ45-10-10	7/8-14	7/8-14
MB-MJ45-10-12	7/8-14	1 1/16-12
MB-MJ45-12-8	1 1/16-12	3/4-16
MB-MJ45-12-10	1 1/16-12	7/8-14
MB-MJ45-12-12	1 1/16-12	1 1/16-12
MB-MJ45-12-16	1 1/16-12	1 5/16-12
MB-MJ45-14-14	1 3/16-12	1 3/16-12
MB-MJ45-16-12	1 5/16-12	1 1/16-12
MB-MJ45-16-16	1 5/16-12	1 5/16-12
MB-MJ45-16-20	1 5/16-12	1 5/8-12
MB-MJ45-20-16	1 5/8-12	1 5/16-12
MB-MJ45-20-20	1 5/8-12	1 5/8-12
MB-MJ45-20-24	1 5/8-12	1 7/8-12
MB-MJ45-24-24	1 7/8-12	1 7/8-12
MB-MJ45-32-32	2 1/2-12	2 1/2-12



90° MALE BOSS O-RING- MALE JIC



PART #	MALE BOSS THREAD	MALE JIC THREAD
MB-MJ90-2-4	5/16-24	7/16-20
MB-MJ90-3-3	3/8-24	3/8-24
MB-MJ90-4-4	7/16-20	7/16-20
MB-MJ90-4-5	7/16-20	1/2-20
MB-MJ90-4-6	7/16-20	9/16-18
MB-MJ90-4-8	7/16-20	3/4-16
MB-MJ90-5-4	1/2-20	7/16-20
MB-MJ90-5-5	1/2-20	1/2-20
MB-MJ90-5-6	1/2-20	9/16-18
MB-MJ90-6-4	9/16-18	7/16-20
MB-MJ90-6-5	9/16-18	1/2-20
MB-MJ90-6-6	9/16-18	9/16-18
MB-MJ90-6-8	9/16-18	3/4-16
MB-MJ90-6-10	9/16-18	7/8-14
MB-MJ90-8-4	3/4-16	7/16-20
MB-MJ90-8-5	3/4-16	1/2-20
MB-MJ90-8-6	3/4-16	9/16-18
MB-MJ90-8-8	3/4-16	3/4-16
MB-MJ90-8-10	3/4-16	7/8-14
MB-MJ90-8-12	3/4-16	1 1/16-12
MB-MJ90-10-4	7/8-14	7/16-20
MB-MJ90-10-6	7/8-14	9/16-18
MB-MJ90-10-8	7/8-14	3/4-16
MB-MJ90-10-10	7/8-14	7/8-14
MB-MJ90-10-12	7/8-14	1 1/16-12
MB-MJ90-10-16	7/8-14	1 5/16-12
MB-MJ90-12-6	1 1/16-12	9/16-18
MB-MJ90-12-8	1 1/16-12	3/4-16
MB-MJ90-12-10	1 1/16-12	7/8-14
MB-MJ90-12-12	1 1/16-12	1 1/16-12
MB-MJ90-12-16	1 1/16-12	1 5/16-12
MB-MJ90-14-12	1 3/16-12	1 1/16-12
MB-MJ90-14-14	1 3/16-12	1 3/16-12
MB-MJ90-14-16	1 3/16-12	1 5/16-12
MB-MJ90-16-8	1 5/16-12	3/4-16
MB-MJ90-16-10	1 5/16-12	7/8-14

PART #	MALE BOSS THREAD	MALE JIC THREAD
MB-MJ90-16-12	1 5/16-12	1 1/16-12
MB-MJ90-16-16	1 5/16-12	1 5/16-12
MB-MJ90-16-20	1 5/16-12	1 5/8-12
MB-MJ90-16-24	1 5/16-12	1 5/8-12
MB-MJ90-20-16	1 5/8-12	1 5/16-12
MB-MJ90-20-16	1 5/8-12	1 5/16-12
MB-MJ90-20-20	1 5/8-12	1 5/8-12
MB-MJ90-20-24	1 5/8-12	1 7/8-12
MB-MJ90-24-20	1 7/8-12	1 5/8-12
MB-MJ90-24-20	1 7/8-12	1 5/8-12
MB-MJ90-24-24	1 7/8-12	1 7/8-12
MB-MJ90-32-32	2 1/2-12	2 1/2-12

90° MALE BOSS O-RING- MALE JIC LONG DROP



PART #	MALE BOSS THREAD	MALE JIC THREAD
MB-MJ90LL-4-4	7/16-20	7/16-20
MB-MJ90LL-6-6	9/16-18	9/16-18
MB-MJ90LL-6-8	9/16-18	3/4-16
MB-MJ90LL-8-6	3/4-16	9/16-18
MB-MJ90LL-8-8	3/4-16	3/4-16
MB-MJ90LL-10-8	7/8-14	3/4-16
MB-MJ90LL-10-10	7/8-14	7/8-14
MB-MJ90LL-12-12	1 1/16-12	1 1/16-12
MB-MJ90LL-12-16	1 1/16-12	1 5/16-12
MB-MJ90LL-16-12	1 5/16-12	1 1/16-12
MB-MJ90LL-16-16	1 5/16-12	1 5/16-12

MALE BOSS O-RING- FEMALE JIC SWIVEL



PART #	MALE BOSS THREAD	FEMALE JIC SWIVEL
MB-FJX-4-4	7/16-20	7/16-20
MB-FJX-6-6	9/16-18	9/16-18
MB-FJX-6-8	9/16-18	3/4-16
MB-FJX-8-6	3/4-16	9/16-18
MB-FJX-8-8	3/4-16	3/4-16
MB-FJX-10-10	7/8-14	7/8-14
MB-FJX-12-12	1 1/16-12	1 1/16-12
MB-FJX-16-16	1 5/16-12	1 5/16-12
MB-FJX-20-20	1 5/8-12	1 5/8-12



MALE BOSS-FEMALE JIC SWIVEL



PART #	MALE BOSS THREAD	FEMALE JIC SWIVEL
MB-FJX90-4-4	7/16-20	7/16-20
MB-FJX90-6-6	9/16-18	9/16-18
MB-FJX90-6-8	9/16-18	3/4-16
MB-FJX90-8-6	3/4-16	9/16-18
MB-FJX90-8-8	3/4-16	3/4-16
MB-FJX90-10-8	7/8-14	3/4-16
MB-FJX90-12-12	1 1/16-12	1 1/16-12
MB-FJX90-16-16	1 5/16-12	1 5/16-12
MB-FJX90-20-20	1 5/8-12	1 5/8-12

MALE JIC-MALE JIC- MALE BOSS TEE



PART #	MALE JIC THREAD	MALE BOSS THREAD
MJ-MJ-MBT-4	7/16-20	7/16-20
MJ-MJ-MBT-4-4-6	7/16-20	9/16-18
MJ-MJ-MBT-5	1/2-20	1/2-20
MJ-MJ-MBT-6	9/16-18	9/16-18
MJ-MJ-MBT-8-8-6	3/4-16	9/16-18
MJ-MJ-MBT-8	3/4-16	3/4-16
MJ-MJ-MBT-8-8-10	3/4-16	7/8-14
MJ-MJ-MBT-10	7/8-14	7/8-14
MJ-MJ-MBT-12-12-10	1 1/16-12	7/8-14
MJ-MJ-MBT-12	1 1/16-12	1 1/16-12
MJ-MJ-MBT-12-12-16	1 1/16-12	1 5/16-12
MJ-MJ-MBT-16	1 5/16-12	1 5/16-12
MJ-MJ-MBT-20	1 5/8-12	1 5/8-12
MJ-MJ-MBT-24	1 7/8-12	1 7/8-12

MALE JIC-MALE BOSS- MALE JIC TEE



PART #	MALE JIC THREAD	MALE BOSS THREAD
MJ-MB-MJT-4	7/16-20	7/16-20
MJ-MB-MJT-4-6-4	7/16-20	9/16-18
MJ-MB-MJT-5	1/2-20	1/2-20
MJ-MB-MJT-6-4-6	9/16-18	7/16-20
MJ-MB-MJT-6	9/16-18	9/16-18
MJ-MB-MJT-6-8-6	9/16-18	3/4-16
MJ-MB-MJT-8-6-8	3/4-16	9/16-18
MJ-MB-MJT-8	3/4-16	3/4-16
MJ-MB-MJT-8-10-8	3/4-16	7/8-14
MJ-MB-MJT-10	7/8-14	7/8-14
MJ-MB-MJT-10-12-10	7/8-14	1 1/16-12
MJ-MB-MJT-12-10-12	1 1/16-12	7/8-14
MJ-MB-MJT-12	1 1/16-12	1 1/16-12
MJ-MB-MJT-16-12-16	1 5/16-12	1 1/16-12
MJ-MB-MJT-16	1 5/16-12	1 5/16-12
MJ-MB-MJT-20	1 5/8-12	1 5/8-12
MJ-MB-MJT-24	1 7/8-12	1 7/8-12

JIC TUBE NUT



PART #	TUBE SIZE	THREAD
TUN-2	1/8	5/16-24
TUN-3	3/16	3/8-24
TUN-4	1/4	7/16-20
TUN-5	5/16	1/2-20
TUN-6	3/8	9/16-18
TUN-8	1/2	3/4-16
TUN-10	5/8	7/8-14
TUN-12	3/4	1 1/16-12
TUN-14	7/8	1 3/16-12
TUN-16	1	1 5/16-12
TUN-20	1 1/4	1 5/8-12
TUN-24	1 1/2	1 7/8-12
TUN-32	2	2 1/2-12

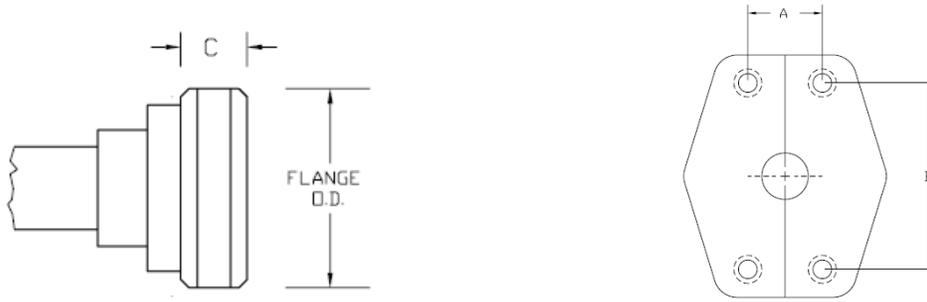
JIC TUBE SLEEVE



PART #	TUBE SIZE
TUS-2	1/8
TUS-3	3/16
TUS-4	1/4
TUS-5	5/16
TUS-6	3/8
TUS-8	1/2
TUS-10	5/8
TUS-12	3/4
TUS-14	7/8
TUS-16	1
TUS-20	1 1/4
TUS-24	1 1/2
TUS-32	2



FLANGE IDENTIFICATION CHART



DASH SIZE	NOMINAL FLANGE SIZE (IN.)	90 DUROMETER O-RING	CODE 61 FLANGE "FL"				CODE 62 FLANGE "FLH"			
			Flange O.D.	A (in.)	B (in.)	C (in.)	Flange O.D.	A (in.)	B (in.)	C (in.)
-8	1/2	210	1.188	0.688	1.500	0.265	1.250	0.718	1.594	0.305
-12	3/4	214	1.500	0.875	1.875	0.265	1.625	0.937	2.000	0.345
-16	1	219	1.750	1.031	2.062	0.315	1.875	1.093	2.250	0.375
-20	1 1/4	222	2.000	1.188	2.312	0.315	2.125	1.250	2.625	0.405
-24	1 1/2	225	2.375	1.406	2.750	0.315	2.500	1.437	3.125	0.495
-32	2	228	2.812	1.688	3.062	0.375	3.125	1.750	3.812	0.495
-40	2 1/2	232	3.312	2.000	3.500	0.375				
-48	3	237	4.000	2.438	4.188	0.375				



CODE 61
SPLIT FLANGE HALVES
SFO



CODE 61 PART #	PORT SIZE	FLANGE THICKNESS
8SFO	.50	.265
12SFO	.75	.265
16SFO	1.00	.315
20SFO	1.25	.315
24SFO	1.50	.315
32SFO	2.00	.375
40SFO	2.50	.375

CODE 61 FLANGE-
MALE JIC ADAPTER



PART #	O-RING FLANGE	MALE JIC THREAD
FL-MJ-8-8	See Chart	3/4-16
FL-MJ-12-12		1 1/16-12
FL-MJ-12-16		1 1/16-12
FL-MJ-16-16		1 5/16-12
FL-MJ-20-16		1 5/8-12
FL-MJ-20-20		1 5/8-12
FL-MJ-24-16		1 5/16-12
FL-MJ-24-20		1 5/8-12
FL-MJ-24-24		1 7/8-12
FL-MJ-32-20		1 5/8-12
FL-MJ-32-24		1 7/8-12
FL-MJ-32-32		2 1/2-12

W43
FLANGE BLOCK-
FEMALE PIPE CODE 61



PART #	PORT SIZE	FLANGE THICKNESS
W43-8-8U	.50	.265
W43-12-12U	.75	.265
W43-16-16U	1.00	.315
W43-20-20U	1.25	.315
W43-24-24U	1.50	.315
W43-32-32U	2.00	.375

45° CODE 61 FLANGE-
MALE JIC ELBOW



PART #	O-RING FLANGE	MALE JIC THREAD
FL-MJ45-8-8	See Chart	3/4-16
FL-MJ45-12-12		1 1/16-12
FL-MJ45-16-16		1 5/16-12
FL-MJ45-20-16		1 5/16-12
FL-MJ45-20-20		1 5/8-12
FL-MJ45-24-24		1 7/8-12
FL-MJ45-32-32		2 1/2-12

W46
FLANGE BLOCK-
FEMALE SAE CODE 61



PART #	PORT SIZE	FLANGE THICKNESS
W46-12-12U	-12	.265
W46-12-16U	-12	.315
W46-16-16U	-16	.315
W46-20-20U	-20	.315
W46-24-24U	-24	.315
W46-32-32U	-32	.375

90° CODE 61 FLANGE-
MALE JIC ELBOW



PART #	O-RING FLANGE	MALE JIC THREAD
FL-MJ90-8-8	See Chart	3/4-16
FL-MJ90-12-8		3/4-16
FL-MJ90-12-12		1 1/16-12
FL-MJ90-16-12		1 1/16-12
FL-MJ90-16-16		1 5/16-12
FL-MJ90-20-16		1 5/16-12
FL-MJ90-20-20		1 5/8-12
FL-MJ90-24-20		1 5/8-12
FL-MJ90-24-24		1 7/8-12
FL-MJ90-32-24		1 7/8-12
FL-MJ90-32-32		2 1/2-12



**CODE 62
SPLIT FLANGE HALVES
SFXO**



CODE 61 PART #	PORT SIZE	FLANGE THICKNESS
8SFXO	.50	.305
12SFXO	.75	.345
16SFXO	1.00	.375
20SFXO	1.25	.405
24SFXO	1.50	.495
32SFXO	2.00	.495

**W44
FLANGE BLOCK-FEMALE
PIPE CODE 62 "FLH"**



CODE 62 PART #	PORT SIZE	FLANGE THICKNESS
W44-12-12U	.50	.305
W44-12-16U	.75	.345
W44-16-16U	1.00	.375
W44-20-20U	1.25	.405
W44-24-24U	1.50	.495
W44-32-32U	2.00	.495

**W48
FLANGE BLOCK-FEMALE
SAE CODE 62 "FLH"**



CODE 62 PART #	PORT SIZE	FLANGE THICKNESS
W48-12-12U	-12	.305
W48-12-16U	-12	.345
W48-16-16U	-16	.375
W48-20-20U	-20	.405
W48-24-24U	-24	.495
W48-32-32U	-32	.495

**CODE 62 FLANGE
MALE JIC ADAPTER**



PART #	O-RING FLANGE	MALE JIC THREAD
FLH6K-MJ-8-8	See Chart	3/4-16
FLH6K-MJ-12-12		1 1/16-12
FLH6K-MJ-16-12		1 1/16-12
FLH6K-MJ-16-16		1 5/16-12
FLH6K-MJ-16-20		1 5/8-12
FLH6K-MJ-20-16		1 5/16-12
FLH6K-MJ-20-20		1 5/8-12
FLH6K-MJ-24-24		1 7/8-12

**45° CODE 62 FLANGE
MALE JIC ELBOW**



PART #	O-RING FLANGE	MALE JIC THREAD
FLH6K-MJ45-12-12	See Chart	1 1/16-12
FLH6K-MJ45-16-12		1 1/16-12
FLH6K-MJ45-16-16		1 5/16-12
FLH6K-MJ45-20-20		1 5/8-12
FLH6K-MJ45-24-24		1 7/8-12

**90° CODE 62 FLANGE
MALE JIC ELBOW**



PART #	O-RING FLANGE	MALE JIC THREAD
FLH6K-MJ90-12-12	See Chart	1 1/16-12
FLH6K-MJ90-12-16		1 1/16-12
FLH6K-MJ90-16-12		1 1/16-12
FLH6K-MJ90-16-16		1 5/16-12
FLH6K-MJ90-16-20		1 5/8-12
FLH6K-MJ90-20-16		1 5/16-12
FLH6K-MJ90-20-20		1 5/8-12
FLH6K-MJ90-24-24		1 7/8-12



S.A.E. ADAPTERS (NOT JIC)

MALE S.A.E. MALE PIPE ADAPTER



PART #	S.A.E. THREAD	MALE PIPE THREAD
MS-MP-4-2	7/16-20	1/8-27
MS-MP-4-4	7/16-20	1/4-18
MS-MP-4-6	7/16-20	3/8-18
MS-MP-5-2	1/2-20	1/8-27
MS-MP-5-4	1/2-20	1/4-18
MS-MP-6-2	5/8-18	1/8-27
MS-MP-6-4	5/8-18	1/4-18
MS-MP-6-6	5/8-18	3/8-18
MS-MP-6-8	5/8-18	1/2-14
MS-MP-8-4	3/4-16	1/4-18
MS-MP-8-6	3/4-16	3/8-18
MS-MP-8-8	3/4-16	1/2-14
MS-MP-8-12	3/4-16	3/4-14
MS-MP-10-6	7/8-14	3/8-18
MS-MP-10-8	7/8-14	1/2-14
MS-MP-10-12	7/8-14	3/4-14
MS-MP-12-8	1 1/16-14	1/2-14
MS-MP-12-12	1 1/16-14	3/4-14

90° MALE S.A.E. MALE PIPE ADAPTER



PART #	S.A.E. THREAD	MALE PIPE THREAD
MS-MP90-4-2	7/16-20	1/8-27
MS-MP90-4-4	7/16-20	1/4-18
MS-MP90-4-6	7/16-20	3/8-18
MS-MP90-6-2	5/8-18	1/8-27
MS-MP90-6-4	5/8-18	1/4-18
MS-MP90-6-6	5/8-18	3/8-18
MS-MP90-6-8	5/8-18	1/2-14
MS-MP90-6-12	5/8-18	3/4-14
MS-MP90-8-4	3/4-16	1/4-18
MS-MP90-8-6	3/4-16	3/8-18
MS-MP90-8-8	3/4-16	1/2-14
MS-MP90-8-12	3/4-16	3/4-14
MS-MP90-10-6	7/8-14	3/8-18
MS-MP90-10-8	7/8-14	1/2-14
MS-MP90-10-12	7/8-14	3/4-14
MS-MP90-12-8	1 1/16-14	1/2-14
MS-MP90-12-12	1 1/16-14	3/4-14

MALE S.A.E. FEMALE PIPE ADAPTER



PART #	S.A.E. THREAD	FEMALE PIPE THREAD
MS-FP-4-4	7/16-20	1/4-18
MS-FP-4-6	7/16-20	3/8-18
MS-FP-6-6	5/8-18	3/8-18
MS-FP-6-8	5/8-18	1/2-14
MS-FP-8-4	3/4-16	1/4-18
MS-FP-12-8	1 1/16-14	1/2-14

Note: S.A.E. adapters have a 45° seat.

(For standard JIC adapters see page 17.)





FLAT FACE ADAPTERS

MALE FLAT FACE-MALE PIPE ADAPTER



PART #	MALE FLAT FACE THREAD	MALE PIPE THREAD
MFFOR-MP-4-2	9/16-18	1/8-27
MFFOR-MP-4-4	9/16-18	1/4-18
MFFOR-MP-4-6	9/16-18	3/8-18
MFFOR-MP-6-4	11/16-16	1/4-18
MFFOR-MP-6-6	11/16-16	3/8-18
MFFOR-MP-6-8	11/16-16	1/2-14
MFFOR-MP-8-6	13/16-16	3/8-18
MFFOR-MP-8-8	13/16-16	1/2-14
MFFOR-MP-8-12	13/16-16	3/4-14
MFFOR-MP-10-8	1-14	1/2-14
MFFOR-MP-12-12	1 3/16-12	3/4-14
MFFOR-MP-16-16	1 7/16-12	1-11 1/2
MFFOR-MP-20-20	1 11/16-12	1 1/4-11 1/2
MFFOR-MP-24-24	2-12	1 1/2-11 1/2

90° MALE FLAT FACE- MALE PIPE ADAPTER



PART #	MALE FLAT FACE THREAD	MALE PIPE THREAD
MFFOR-MP90-4-2	9/16-18	1/8-27
MFFOR-MP90-4-8	9/16-18	1/2-14
MFFOR-MP90-6-4	11/16-16	1/4-18
MFFOR-MP90-6-6	11/16-16	3/8-18
MFFOR-MP90-6-8	11/16-16	1/2-14
MFFOR-MP90-8-8	13/16-16	1/2-14
MFFOR-MP90-8-12	13/16-16	3/4-14
MFFOR-MP90-10-8	1-14	1/2-14
MFFOR-MP90-10-12	1-14	3/4-14
MFFOR-MP90-12-12	1 3/16-12	3/4-14
MFFOR-MP90-16-16	1 7/16-12	1-11 1/2

MALE FLAT FACE-MALE BOSS ADAPTER



PART #	MALE FLAT FACE THREAD	MALE BOSS THREAD
MFFOR-MB-4-4	9/16-18	7/16-20
MFFOR-MB-4-6	9/16-18	9/16-20
MFFOR-MB-4-8	9/16-18	3/4-16
MFFOR-MB-6-4	11/16-16	7/16-20
MFFOR-MB-6-6	11/16-16	9/16-18
MFFOR-MB-6-8	11/16-16	3/4-16
MFFOR-MB-6-10	11/16-16	7/8-14
MFFOR-MB-8-6	13/16-16	9/16-18
MFFOR-MB-8-8	13/16-16	3/4-16
MFFOR-MB-8-10	13/16-16	7/8-14
MFFOR-MB-8-12	13/16-16	1 1/16-12
MFFOR-MB-8-16	13/16-16	1 5/16-12
MFFOR-MB-10-8	1-14	3/4-16
MFFOR-MB-10-10	1-14	7/8-14
MFFOR-MB-10-12	1-14	1 1/16-12
MFFOR-MB-12-8	1 3/16-12	3/4-16
MFFOR-MB-12-10	1 3/16-12	7/8-14
MFFOR-MB-12-12	1 3/16-12	1 1/16-12
MFFOR-MB-12-16	1 3/16-12	1 5/16-12
MFFOR-MB-16-12	1 7/16-12	1 1/16-12
MFFOR-MB-16-16	1 7/16-12	1 5/16-12
MFFOR-MB-16-20	1 7/16-12	1 5/8-12
MFFOR-MB-20-16	1 11/16-12	1 5/16-12
MFFOR-MB-20-20	1 11/16-12	1 5/8-12
MFFOR-MB-24-24	2-12	1 7/8-12



45° MALE FLAT FACE MALE BOSS ADAPTER



PART #	MALE FLAT FACE	MALE BOSS THREAD
MFFOR-MB45-4-4	9/16-18	7/16-20
MFFOR-MB45-6-4	11/16-16	7/16-20
MFFOR-MB45-6-8	11/16-16	3/4-16
MFFOR-MB45-8-8	13/16-16	3/4-16
MFFOR-MB45-10-10	1-14	7/8-14
MFFOR-MB45-10-12	1-14	1 1/16-12
MFFOR-MB45-12-10	1 3/16-12	7/8-14
MFFOR-MB45-12-12	1 3/16-12	1 1/16-12
MFFOR-MB45-12-16	1 3/16-12	1 5/16-12
MFFOR-MB45-16-12	1 7/16-12	1 1/16-12
MFFOR-MB45-16-16	1 7/16-12	1 5/16-12

MALE FLAT FACE-MALE BOSS TEE



PART #	MALE FLAT FACE THREAD	MALE BOSS THREAD
MFFOR-MFFOR-MBT-4	9/16-18	7/16-20
MFFOR-MFFOR-MBT-6	11/16-16	9/16-18
MFFOR-MFFOR-MBT-8	13/16-16	3/4-16
MFFOR-MFFOR-MBT-12	1 3/16-12	1 1/16-12

90° MALE FLAT FACE- MALE BOSS ELBOW



PART #	MALE FLAT FACE THREAD	MALE BOSS THREAD
MFFOR-MB90-4-4	9/16-18	7/16-20
MFFOR-MB90-4-6	9/16-18	9/16-18
MFFOR-MB90-6-4	11/16-16	7/16-20
MFFOR-MB90-6-6	11/16-16	9/16-18
MFFOR-MB90-6-8	11/16-16	3/4-16
MFFOR-MB90-6-10	11/16-16	7/8-14
MFFOR-MB90-8-6	13/16-16	11/16-16
MFFOR-MB90-8-8	13/16-16	3/4-16
MFFOR-MB90-8-10	13/16-16	7/8-14
MFFOR-MB90-8-12	13/16-16	1 1/16-12
MFFOR-MB90-10-8	1-14	3/4-16
MFFOR-MB90-10-10	1-14	7/8-14
MFFOR-MB90-10-12	1-14	1 1/16-12
MFFOR-MB90-12-10	1 3/16-12	1-14
MFFOR-MB90-12-12	1 3/16-12	1 1/16-12
MFFOR-MB90-12-16	1 3/16-12	1 5/16-12
MFFOR-MB90-16-12	1 7/16-12	1 1/16-12
MFFOR-MB90-16-16	1 7/16-12	1 5/16-12
MFFOR-MB90-20-20	1 11/16-12	1 5/8-12

FEMALE FLAT FACE- MALE BOSS



PART #	FEMALE FLAT FACE	MALE BOSS THREAD
FFORX-MB-4-4	9/16-18	7/16-20
FFORX-MB-6-4	11/16-16	7/16-20
FFORX-MB-6-8	11/16-16	3/4-16
FFORX-MB-8-8	13/16-16	3/4-16
FFORX-MB-10-10	1-14	7/8-14
FFORX-MB-10-12	1-14	1 1/16-12
FFORX-MB-12-10	1 3/16-12	7/8-14
FFORX-MB-12-12	1 3/16-12	1 1/16-12
FFORX-MB-12-16	1 3/16-12	1 5/16-12
FFORX-MB-16-12	1 7/16-12	1 1/16-12
FFORX-MB-16-16	1 7/16-12	1 5/16-12

90° FEMALE FLAT FACE- MALE BOSS ELBOW



PART #	FEMALE FLAT FACE SWIVEL	MALE BOSS THREAD
FFORX-MB90-4-4	9/16-18	7/16-20
FFORX-MB90-6-6	11/16-16	9/16-18
FFORX-MB90-8-8	13/16-16	3/4-16
FFORX-MB90-10-10	1-14	7/8-14
FFORX-MB90-12-12	1 3/16-12	1 1/16-12
FFORX-MB90-16-16	1 7/16-12	1 5/16-12



**MALE FLAT FACE-
MALE JIC**



PART #	MALE FLAT FACE	MALE JIC
MFFOR-MJ-4-4	9/16-18	7/16-20
MFFOR-MJ-6-6	11/16-16	9/16-18
MFFOR-MJ-8-8	13/16-16	3/4-16
MFFOR-MJ-10-10	1-14	7/8-14
MFFOR-MJ-12-12	1 3/16-12	1 1/16-12
MFFOR-MJ-16-16	1 7/16-12	1 5/16-12

**FEMALE FLAT FACE
SWIVEL-MALE JIC**



PART #	FEMALE FLAT FACE SWIVEL	MALE JIC THREAD
FFORX-MJ-4-4	9/16-18	7/16-20
FFORX-MJ-6-6	11/16-16	9/16-18
FFORX-MJ-8-8	13/16-16	3/4-16
FFORX-MJ-10-10	1-14	7/8-14
FFORX-MJ-12-12	1 3/16-12	1 1/16-12
FFORX-MJ-16-16	1 7/16-12	1 5/16-12
FFORX-MJ-20-20	1 11/16-12	1 5/8-12

**MALE FLAT FACE-
FEMALE FLAT FACE SWIVEL**



PART #	MALE FLAT FACE	FEMALE FLAT FACE
MFFOR-FFORX-4-6	9/16-18	11/16-16
MFFOR-FFORX-4-8	9/16-18	13/16-16
MFFOR-FFORX-4-10	9/16-18	1-14
MFFOR-FFORX-6-8	11/16-16	13/16-16
MFFOR-FFORX-6-10	11/16-16	1-14
MFFOR-FFORX-6-12	11/16-16	1 3/16-12
MFFOR-FFORX-8-10	13/16-16	1-14
MFFOR-FFORX-8-12	13/16-16	1 3/16-16
MFFOR-FFORX-8-16	13/16-16	1 7/16-12
MFFOR-FFORX-10-12	1-14	1 3/16-16
MFFOR-FFORX-10-16	1-14	1 7/16-12
MFFOR-FFORX-12-16	1 3/16-16	1 7/16-16
MFFOR-FFORX-12-20	1 3/16-16	1 11/16-12
MFFOR-FFORX-12-24	1 3/16-12	2-12
MFFOR-FFORX-16-12	1 7/16-12	1 3/16-16
MFFOR-FFORX-20-16	1 11/16-12	1 7/16-12

**45° MALE FLAT FACE
FEMALE FLAT FACE SWIVEL**



PART #	MALE FLAT FACE	FEMALE FLAT FACE
MFFOR-FFORX45-4-4	9/16-18	9/16-18
MFFOR-FFORX45-6-6	11/16-16	11/16-16
MFFOR-FFORX45-8-8	13/16-16	13/16-16
MFFOR-FFORX45-10-10	1-14	1-14
MFFOR-FFORX45-12-12	1 3/16-12	1 1/16-12
MFFOR-FFORX45-16-16	1 7/16-12	1 7/16-12
MFFOR-FFORX45-20-16	1 11/16-12	1 7/16-12

**90° MALE FLAT FACE-
FEMALE FLAT FACE**



PART #	MALE FLAT FACE THREAD	FEMALE FLAT FACE SWIVEL
MFFOR-FFORX90-4-4	9/16-18	9/16-18
MFFOR-FFORX90-6-6	11/16-16	11/16-16
MFFOR-FFORX90-8-8	13/16-16	13/16-16
MFFOR-FFORX90-10-10	1-14	1-14
MFFOR-FFORX90-12-12	1 3/16-12	1 3/16-12
MFFOR-FFORX90-16-16	1 7/16-12	1 7/16-12
MFFOR-FFORX90-20-20	1 11/16-12	1 11/16-12



MALE FLAT FACE TEE



PART #	MALE FLAT FACE
MFFORT-4	9/16-18
MFFORT-6	11/16-16
MFFORT-8	13/16-16
MFFORT-10	1-14
MFFORT-12	1 3/16-12
MFFORT-16	1 7/16-12

MALE-MALE-FEMALE FLAT FACE SWIVEL TEE



PART #	MALE FLAT FACE THREAD	FEMALE FLAT FACE SWIVEL
MFFOR-MFFOR-FFORX-4	9/16-18	9/16-18
MFFOR-MFFOR-FFORX-6	11/16-16	11/16-16
MFFOR-MFFOR-FFORX-8	13/16-16	13/16-16
MFFOR-MFFOR-FFORX-12	1 3/16-16	1 3/16-16

MALE-FEMALE FLAT FACE SWIVEL-MALE TEE



PART #	MALE FLAT FACE THREAD	FEMALE FLAT FACE SWIVEL
MFFOR-FFORX-MFFOR-4	9/16-18	9/16-18
MFFOR-FFORX-MFFOR-6	11/16-16	11/16-16
MFFOR-FFORX-MFFOR-8	13/16-16	13/16-16
MFFOR-FFORX-MFFOR-10	1-14	1-14
MFFOR-FFORX-MFFOR-12	1 3/16-12	1 3/16-12
MFFOR-FFORX-MFFOR-16	1 7/16-12	1 7/16-12



CAPS, PLUGS, NUTS & SLEEVES

FLAT FACE PLUG



PART #	MALE FLAT FACE THREAD
FFG-4	9/16-18
FFG-6	11/16-16
FFG-8	13/16-16
FFG-10	1-14
FFG-12	1 3/16-12
FFG-16	1 7/16-12
FFG-20	1 11/16-12
FFG-24	2-12

FLAT FACE CAP



PART #	FEMALE FLAT FACE THREAD
FFC-4	9/16-18
FFC-6	11/16-16
FFC-8	13/16-16
FFC-10	1-14
FFC-12	1 3/16-12
FFC-16	1 7/16-12
FFC-20	1 11/16-12
FFC-24	2-12

RECESSED PIPE PLUG



PART #	PIPE THREAD	ALLEN WRENCH
REG-1	1/16	1/8"
REG-2	1/8-27	1/8"
REG-4	1/4-18	3/16"
REG-6	3/8-18	1/4"
REG-8	1/2-14	5/16"
REG-12	3/4-14	9/16"
REG-16	1-11 1/2	5/8"
REG-20	1 1/4-11 1/2	3/4"
REG-24	1 1/2-11 1/2	1"
REG-32	2-11 1/2	1"

PIPE PLUG



PART #	PIPE THREAD
PG-2	1/8-27
PG-4	1/4-18
PG-6	3/8-18
PG-8	1/2-14
PG-12	3/4-14
PG-16	1-11 1/2
PG-20	1 1/4-11 1/2
PG-24	1 1/2-11 1/2
PG-32	2-11 1/2

PIPE CAP



PART #	PIPE THREAD
PC-2	1/8-27
PC-4	1/4-18
PC-6	3/8-18
PC-8	1/2-14
PC-12	3/4-14
PC-16	1-11 1/2
PC-20	1 1/4-11 1/2
PC-24	1 1/2-11 1/2
PC-32	2-11 1/2



JIC PLUG



PART #	MALE JIC THREAD
JG-2	5/16-24
JG-3	3/8-24
JG-4	7/16-20
JG-5	1/2-20
JG-6	9/16-18
JG-8	3/4-16
JG-10	7/8-14
JG-12	1 1/16-12
JG-14	1 3/16-12
JG-16	1 5/16-12
JG-20	1 5/8-12
JG-24	1 7/8-12
JG-32	2 1/2-12

JIC CAP



PART #	FEMALE JIC THREAD
JC-2	5/16-24
JC-3	3/8-24
JC-4	7/16-20
JC-5	1/2-20
JC-6	9/16-18
JC-8	3/4-16
JC-10	7/8-14
JC-12	1 1/16-12
JC-14	1 3/16-12
JC-16	1 5/16-12
JC-20	1 5/8-12
JC-24	1 7/8-12
JC-32	2 1/2-12

BOSS O-RING PLUG



PART #	MALE BOSS THREAD
BG-2	5/16-24
BG-3	3/8-24
BG-4	7/16-20
BG-5	1/2-20
BG-6	9/16-18
BG-8	3/4-16
BG-10	7/8-14
BG-12	1 1/16-12
BG-14	1 3/16-12
BG-16	1 5/16-12
BG-20	1 5/8-12
BG-24	1 7/8-12
BG-32	2 1/2-12

RECESSED BOSS O-RING PLUG



PART #	MALE BOSS THREAD	ALLEN WRENCH
RBG-2	5/16-24	1/8"
RBG-3	3/8-24	1/8"
RBG-4	7/16-20	3/16"
RBG-5	1/2-20	3/16"
RBG-6	9/16-18	1/4"
RBG-8	3/4-16	5/16"
RBG-10	7/8-14	3/8"
RBG-12	1 1/16-12	9/16"
RBG-14	1 3/16-12	9/16"
RBG-16	1 5/16-12	5/8"
RBG-20	1 5/8-12	3/4"
RBG-24	1 7/8-12	1"
RBG-32	2 1/2-12	1"

BSPP PLUG



PART #	BSPP THREAD
BSPPG-4	1/4-19
BSPPG-6	3/8-19
BSPPG-8	1/2-14
BSPPG-12	3/4-14
BSPPG-16	1-11

RECESSED BSPP PLUG



PART #	BSPP THREAD
BRBG-4	1/4-19
BRBG-6	3/8-19
BRBG-8	1/2-14
BRBG-12	3/4-14
BRBG-16	1-11

FBSP-PP-CAP



PART #	FEMALE BSPP THREAD
BSPPC-4	1/4-19
BSPPC-6	3/8-19
BSPPC-8	1/2-14
BSPPC-12	3/4-14
BSPPC-16	1-11



INTERNATIONAL ADAPTERS

MALE BRITISH STD PIPE PARALLEL-MALE PIPE ADAPTER



PART #	MBSPP THREAD	MALE PIPE THREAD
MBSPP-MP-4-4	1/4-19	1/4-18
MBSPP-MP-6-6	3/8-19	3/8-18
MBSPP-MP-8-8	1/2-14	1/2-14
MBSPP-MP-12-12	3/4-14	3/4-14
MBSPP-MP-16-16	1-11	1-11 1/2

MALE BRITISH STD PIPE PARALLEL-MALE JIC ADAPTER



PART #	MBSPP THREAD	MALE JIC THREAD
MBSPP-MJ-2-4	1/8-28	7/16-20
MBSPP-MJ-4-4	1/4-19	7/16-20
MBSPP-MJ-4-6	1/4-19	9/16-18
MBSPP-MJ-6-6	3/8-19	9/16-18
MBSPP-MJ-6-8	3/8-19	3/4-16
MBSPP-MJ-8-8	1/2-14	3/4-16
MBSPP-MJ-10-10	5/8-14	7/8-14
MBSPP-MJ-12-8	3/4-14	3/4-16
MBSPP-MJ-12-12	3/4-14	1 1/16-12
MBSPP-MJ-12-14	3/4-14	1 3/16-12
MBSPP-MJ-12-16	3/4-14	1 5/16-12
MBSPP-MJ-16-16	1-11	1 5/16-12
MBSPP-MJ-24-24	1 1/2-11	1 7/8-12

MALE BRITISH STD PIPE PARALLEL O-RING MALE JIC ADAPTER



PART #	MBSPP THREAD	MALE JIC THREAD
MBSPPOR-MJ-2-4	1/8-28	7/16-20
MBSPPOR-MJ-4-4	1/4-19	7/16-20
MBSPPOR-MJ-4-6	1/4-19	9/16-18
MBSPPOR-MJ-6-4	3/8-19	7/16-20
MBSPPOR-MJ-6-6	3/8-19	9/16-18
MBSPPOR-MJ-6-8	3/8-19	3/4-16
MBSPPOR-MJ-8-6	1/2-14	9/16-18
MBSPPOR-MJ-8-8	1/2-14	3/4-16
MBSPPOR-MJ-8-12	1/2-14	1 1/16-12
MBSPPOR-MJ-12-12	3/4-14	1 1/16-12
MBSPPOR-MJ-16-16	1-11	1 5/16-12
MBSPPOR-MJ-20-20	1 1/4-11	1 5/8-12

MALE BRITISH STD PIPE PARALLEL-MALE BOSS ADAPTER



PART #	MBSPP THREAD	MALE BOSS THREAD
MBSPP-MB-4-6	1/4-19	9/16-18
MBSPP-MB-6-10	3/8-19	7/8-14
MBSPP-MB-8-10	1/2-14	7/8-14
MBSPP-MB-10-10	5/8-14	7/8-14
MBSPP-MB-12-12	3/4-14	1 1/16-12
MBSPP-MB-12-16	3/4-14	1 5/16-12

90° MALE BRITISH STD PIPE PARALLEL-MALE JIC ELBOW



PART #	MBSPP THREAD	MALE JIC THREAD
MBSPP-MJ90-4-6	1/4-19	9/16-18
MBSPP-MJ90-6-6	3/8-19	9/16-18
MBSPP-MJ90-6-8	3/8-19	3/4-16
MBSPP-MJ90-8-8	1/2-14	3/4-16
MBSPP-MJ90-12-12	3/4-14	1 1/16-12
MBSPP-MJ90-16-16	1-11	1 5/16-12
MBSPP-MJ90-20-20	1 1/4-11	1 5/8-12

FEMALE BRITISH STD PIPE PARALLEL SWIVEL- MALE JIC



PART #	FBSPPX SWIVEL	MALE JIC THREAD
FBSPPX-MJ-4-4	1/4-19	7/16-20
FBSPPX-MJ-6-6	3/8-19	9/16-18
FBSPPX-MJ-8-8	1/2-14	3/4-16
FBSPPX-MJ-10-10	5/8-14	7/8-14
FBSPPX-MJ-12-12	3/4-14	1 1/16-12
FBSPPX-MJ-16-16	1-11	1 5/16-12



**MALE BRITISH STD PIPE
PARALLEL-FEMALE JIC
SWIVEL**



PART #	MBSPP THREAD	FEMALE JIC SWIVEL
MBSPP-FJX-4-4	1/4-19	7/16-20
MBSPP-FJX-6-6	3/8-19	9/16-18
MBSPP-FJX-8-8	1/2-14	3/4-16
MBSPP-FJX-10-10	5/8-14	7/8-14
MBSPP-FJX-12-12	3/4-14	1 1/16-12
MBSPP-FJX-16-16	1-11	1 5/16-12

**FEMALE BRITISH STD PIPE
PARALLEL SWIVEL-FEMALE
JIC SWIVEL**



PART #	FBSPPX THREAD	FEMALE JIC SWIVEL
FBSPPX-FJX-4-4	1/4-19	7/16-20
FBSPPX-FJX-6-6	3/8-19	9/16-18
FBSPPX-FJX-8-8	1/2-14	3/4-16
FBSPPX-FJX-10-10	5/8-14	7/8-14
FBSPPX-FJX-12-12	3/4-14	1 1/16-12
FBSPPX-FJX-16-16	1-11	1 5/16-12

**MALE STD BRITISH PIPE
TAPERED-MALE JIC**



PART #	MBSPT THREAD	MALE JIC THREAD
MBSPT-MJ-2-4	1/8-28	7/16-20
MBSPT-MJ-4-4	1/4-19	7/16-20
MBSPT-MJ-6-6	3/8-19	9/16-18
MBSPT-MJ-8-8	1/2-14	3/4-16
MBSPT-MJ-8-10	1/2-14	7/8-14
MBSPT-MJ-12-12	3/4-14	1 1/16-12
MBSPT-MJ-16-16	1-11	1 5/16-12

**MALE-FEMALE SWIVEL
BRITISH STD PIPE PARALLEL**



PART #	MBSPP THREAD	FBSPPX SWIVEL
MBSPP-FBSPPX-4-4	1/4-19	1/4-19
MBSPP-FBSPPX-6-6	3/8-19	3/8-19
MBSPP-FBSPPX-8-8	1/2-14	1/2-14
MBSPP-FBSPPX-10-10	5/8-14	5/8-14
MBSPP-FBSPPX-12-12	3/4-14	3/4-14
MBSPP-FBSPPX-16-16	1-11	1-11

BRITISH BONDED SEAL



PART #	I. D.	O. D.
9900-02	.408	.625
9900-04	.540	.809
9900-06	.682	.937
9900-08	.850	1.125
9900-10	.925	1.250
9900-12	1.062	1.375
9900-16	1.338	1.687
9900-20	1.699	2.063
9900-24	1.910	2.310
9900-32	2.389	2.875



**MALE METRIC-
MALE JIC ADAPTER**



PART #	MALE METRIC THREAD	MALE JIC THREAD
MM-MJ-10-4	10 x 1.0	7/16-20
MM-MJ-12-4	12 x 1.5	7/16-20
MM-MJ-12-6	12 x 1.5	9/16-18
MM-MJ-14-4	14 x 1.5	7/16-20
MM-MJ-14-6	14 x 1.5	9/16-18
MM-MJ-16-6	16 x 1.5	9/16-18
MM-MJ-16-8	16 x 1.5	3/4-16
MM-MJ-18-8	18 x 1.5	3/4-16
MM-MJ-18-10	18 x 1.5	7/8-14
MM-MJ-20-10	20 x 1.5	7/8-14
MM-MJ-22-8	22 x 1.5	3/4-16
MM-MJ-22-10	22 x 1.5	7/8-14
MM-MJ-22-12	22 x 1.5	1 1/16-12
MM-MJ-26-12	26 x 1.5	1 1/16-12
MM-MJ-27-12	27 x 2.0	1 1/16-12
MM-MJ-33-16	33 x 2.0	1 5/16-12

**MALE D.I.N. (LIGHT
SERIES)-MALE JIC
ADAPTER**



PART #	MALE DIN LIGHT	TUBE O.D.	MALE JIC THREAD
MDL-MJ-8-4	14 x 1.5	8	7/16-20
MDL-MJ-10-6	16 x 1.5	10	9/16-18
MDL-MJ-12-6	18 x 1.5	12	9/16-18
MDL-MJ-15-8	22 x 1.5	15	3/4-16
MDL-MJ-18-10	26 x 1.5	18	7/8-14
MDL-MJ-22-12	30 x 2.0	22	1 1/16-12
MDL-MJ-28-16	36 x 2.0	28	1 5/16-12

**MALE D.I.N. (HEAVY
SERIES)-MALE JIC
ADAPTER**



PART #	MALE DIN HEAVY	TUBE O.D. (MM)	MALE JIC THREAD
MDH-MJ-10-4	18 x 1.5	10	7/16-20
MDH-MJ-14-6	22 x 1.5	14	9/16-18
MDH-MJ-16-8	24 x 1.5	16	3/4-16
MDH-MJ-20-10	30 x 2.0	20	7/8-14
MDH-MJ-25-12	36 x 2.0	25	1 1/16-12
MDH-MJ-30-16	42 x 2.0	30	1 5/16-12

**MALE METRIC-
FEMALE PIPE ADAPTER**



PART #	MALE METRIC THREAD	FEMALE PIPE THREAD
MM-FP-12-4	12 x 1.5	1/4-18
MM-FP-14-4	14 x 1.5	1/4-18
MM-FP-18-8	18 x 1.5	1/2-14
MM-FP-22-6	22 x 1.5	3/8-18
MM-FP-22-8	22 x 1.5	1/2-14
MM-FP-27-12	27 x 2.0	3/4-14

DIN Light and DIN Heavy series adapters are distinguished from each other by the tube O.D. The O.D. tube of the heavy series is smaller than the light series.



**FEMALE D.I.N. SWIVEL
(LIGHT SERIES)-
MALE JIC**



PART #	FEMALE DIN LIGHT	TUBE O.D. (MM)	MALE JIC
FDLX-MJ-8-4	14 x 1.5	8	7/16-20
FDLX-MJ-10-6	16 x 1.5	10	9/16-18
FDLX-MJ-12-6	18 x 1.5	12	9/16-18
FDLX-MJ-22-12	30 x 2.0	22	1 1/16-12
FDLX-MJ-28-16	36 x 2.0	28	1 5/16-12

**FEMALE D.I.N. SWIVEL
(HEAVY SERIES)-MALE JIC
ADAPTER**



PART #	FEMALE DIN HEAVY	TUBE O.D. (MM)	MALE JIC
FDHX-MJ-10-4	18 x 1.5	10	7/16-20
FDHX-MJ-12-5	20 x 1.5	12	1/2-20
FDHX-MJ-14-6	22 x 1.5	14	9/16-18
FDHX-MJ-16-8	24 x 1.5	16	3/4-16
FDHX-MJ-20-10	30 x 2.0	20	7/8-14

**METRIC BONDED SEAL
(FOR METRIC BONDED
THREADS)**



PART #	I. D. (MM)	O. D. (MM)
8800-06	6	10
8800-10	10	18
8800-12	12	20
8800-14	14	22
8800-16	16	24
8800-18	18	26
8800-22	22	30
8800-26	26	35
8800-27	27	36
8800-30	30	39
8800-33	33	43



BARB ADAPTERS

HOSE BARB TO MALE PIPE



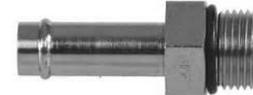
PART #	HOSE BARB	MALE PIPE THREAD
HB-MP-4-6	1/4"	3/8-18
HB-MP-5-6	5/16"	3/8-18
HB-MP-6-6	3/8"	3/8-18
HB-MP-6-8	3/8"	1/2-14
HB-MP-8-6	1/2"	3/8-18
HB-MP-8-8	1/2"	1/2-14
HB-MP-10-6	5/8"	3/8-18
HB-MP-10-8	5/8"	1/2-14
HB-MP-12-6	3/4"	3/8-18
HB-MP-12-8	3/4"	1/2-14
HB-MP-12-12	3/4"	3/4-14
HB-MP-16-12	1"	3/4-14
HB-MP-16-16	1"	1-11 1/2
HB-MP-20-20	1 1/4"	1 1/4-11 1/2
HB-MP-24-24	1 1/2"	1 1/2-11 1/2

HOSE BARB TO MALE PIPE 90°



PART #	HOSE BARB	MALE PIPE THREAD
HB-MP90-4-6	1/4"	3/8-18
HB-MP90-5-6	5/16"	3/8-18
HB-MP90-6-6	3/8"	3/8-18
HB-MP90-6-8	3/8"	1/2-14
HB-MP90-8-6	1/2"	3/8-18
HB-MP90-8-8	1/2"	1/2-14
HB-MP90-10-6	5/8"	3/8-18
HB-MP90-10-8	5/8"	1/2-14
HB-MP90-12-6	3/4"	3/8-18
HB-MP90-12-8	3/4"	1/2-14
HB-MP90-12-12	3/4"	3/4-14
HB-MP90-16-12	1"	3/4-14
HB-MP90-16-16	1"	1-11 1/2
HB-MP90-20-20	1 1/4"	1 1/4-11 1/2
HB-MP90-24-24	1 1/2"	1 1/2-11 1/2

HOSE BARB TO MALE BOSS



PART #	HOSE BARB	MALE BOSS THREAD
HB-MB-4-4	1/4"	7/16-20
HB-MB-6-6	3/8"	9/16-18
HB-MB-8-8	1/2"	3/4-16
HB-MB-10-10	5/8"	7/8-14
HB-MB-12-8	3/4"	3/4-16
HB-MB-12-12	3/4"	1 1/16-12
HB-MB-16-10	1"	7/8-14
HB-MB-16-12	1"	1 1/16-12
HB-MB-16-16	1"	1 5/16-12
HB-MB-20-16	1 1/4"	1 5/16-12
HB-MB-20-20	1 1/4"	1 5/8-12

HOSE BARB TO MALE BOSS 90°



PART #	HOSE BARB	MALE BOSS THREAD
HB-MB90-4-4	1/4"	7/16-20
HB-MB90-6-6	3/8"	9/16-18
HB-MB90-8-8	1/2"	3/4-16
HB-MB90-10-10	5/8"	7/8-14
HB-MB90-12-8	3/4"	3/4-16
HB-MB90-12-12	3/4"	1 1/16-12
HB-MB90-16-10	1"	7/8-14
HB-MB90-16-12	1"	1 1/16-12
HB-MB90-16-16	1"	1 5/16-12
HB-MB90-20-16	1 1/4"	1 5/16-12
HB-MB90-20-20	1 1/4"	1 5/8-12



WELD COUPLINGS

SAE/NPT FULL WELD COUPLING 825 SERIES



PART #	FEMALE BOSS THREAD	FEMALE PIPE THREAD
825-8	3/4-16	1/2-14
825-12	1 1/16-12	3/4-14
825-16	1 5/16-12	1-11 1/2
825-20	1 5/8-12	1 1/4-11 1/2
825-24	1 7/8-12	1 1/2-11 1/2
825-32	2 1/2-12	2-11 1/2

SAE/SAE FULL WELD COUPLING 830 SERIES



PART #	FEMALE SAE THREAD	FEMALE SAE THREAD
830-8	3/4-16	3/4-16
830-12	1 1/16-12	1 1/16-12
830-16	1 5/16-12	1 5/16-12
830-20	1 5/8-12	1 5/8-12
830-24	1 7/8-12	1 7/8-12
830-32	2 1/2-12	2 1/2-12

SAE HALF WELD COUPLING 835 SERIES



PART #	FEMALE SAE THREAD
835-8	3/4-16
835-12	1 1/16-12
835-16	1 5/16-12
835-20	1 5/8-12
835-24	1 7/8-12
835-32	2 1/2-12

T-BOLT CLAMPS

CLAMP #	SIZE	FITS HOSE
TBC150	1-24/64" TO 1-36/64"	16GMV
TBC175	1-40/64" TO 1-52/64"	
TBC188	1-48/64" TO 1-60/64"	20GMV
TBC200	1-56/64" TO 2-4/64"	24GMV
TBC225	2-8/64" TO 2-20/64"	
TBC250	2-24/64" TO 2-36/64"	
TBC256	2-22/64" TO 2-40/64"	32GMV
TBC300	2-50/64" TO 3-4/64"	40GMV





**HYDRAULIC
CONTROLS**
INC.

BOISE (208) 343-0251

DENVER (303) 295-7500

FRESNO (559) 268-4291

BAKERSFIELD (661) 327-0571

EMERYVILLE (510) 658-8300

PHOENIX (602) 278-6088

REDDING (530) 221-6500



O-RING KITS

568 KIT-A	STANDARD O-RING KIT
574 KIT	BACK-UP O-RING KIT
900 BOSS KIT	BOSS O-RING KIT
METRIC O-RING KIT	METRIC O-RING KIT



WARNING: These products can expose you to chemicals including Lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.



CONDITIONS OF SALE

PRICES - Orders are accepted with the understanding the price sheet items will be billed at the price in effect at the time of release for shipment, unless otherwise specified in the quotation. Prices are subject to change without notice.

CLERICAL ERRORS – All clerical errors are subject to correction.

SELECTED TERMS AND CONDITIONS

Hydraulic Controls, Inc. ("HCI") has included the following selected terms and conditions as part of this catalog for informational purposes only. Please note that these terms and conditions are incomplete. All sales are subject to the standard HCI Purchase Order Terms and Conditions. Please refer to those terms and conditions for further reference.

DELIVERY – Risk of loss passes to the Buyer upon delivery of the items to the carrier for shipment. Every effort will be made to deliver as promised. Please see the Purchase Order Terms and Conditions for further explanation of Buyer's and Seller's respective responsibilities regarding delivery.

RETURNS - Returned merchandise will not be accepted without prior written authorization.

WARRANTIES - HCI makes no warranty with respect to items sold other than in accordance with the Purchase Order Terms and Conditions. HCI warrants that the goods are as described in this contract, but no other express warranty is made with respect to the goods. If any model or sample was shown Buyer, the model or sample was used merely to illustrate the general type and quality of the goods, and not to represent that the goods would necessarily conform to the model or sample. HCI warrants that all items are to be free from defects in workmanship and materials for a period of sixty (60) days from date of shipment to Buyer, but no warranty is made that the items are fit for a particular purpose or that the items comply with Federal or State OSHA or OSHA-related regulations. This warranty is conditioned upon HCI's receipt within ten (10) days after Buyer's discovery of a defect of a written notice stating in what specific material respects the item failed to meet this warranty. Except as expressly set forth in the Purchase Order Terms and Conditions, all warranties, express, implied or statutory, including implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.



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