



SABRE 

Hydraulic Adaptors Catalogue

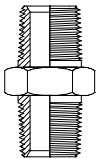
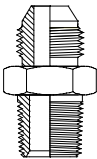
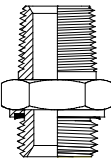
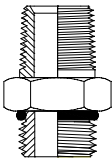
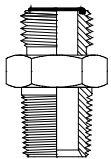
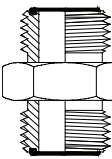
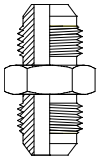
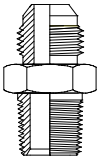
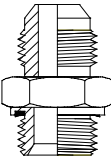
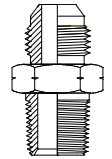
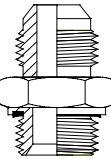
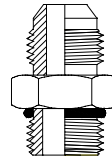
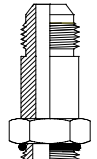
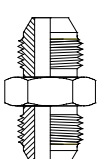
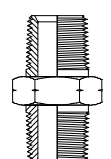
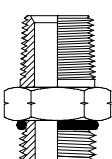
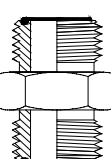
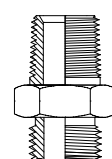
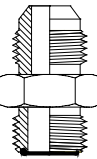
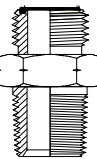
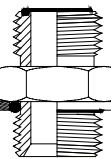
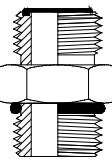
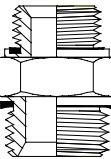
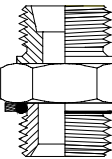
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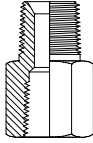
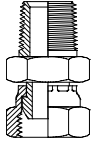
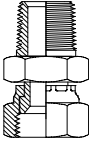
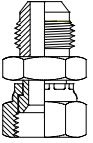
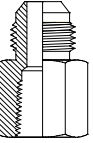
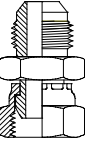
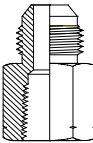
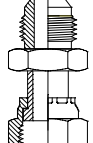
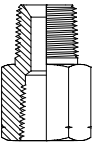
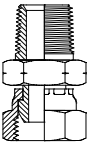
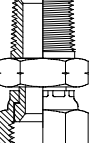
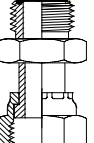
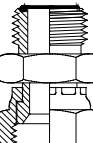
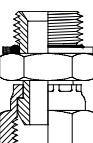
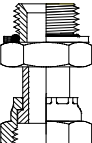
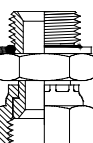
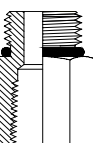
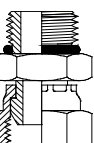
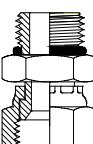
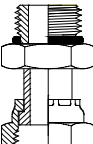
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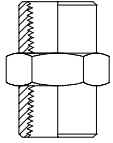
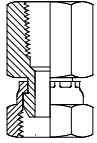
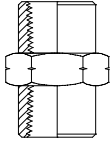
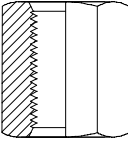
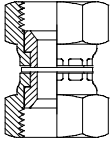
# Straight MxM

<b>B1M</b>	<b>BK1M</b>	<b>BP1M</b>	<b>BU1M</b>	<b>CB1M</b>	<b>C1M</b>
					
BSPT Male BSPT Male Page 29	BSPT Male KOM Male Page 65	BSPT Male BSPP Male Page 38	BSPT Male UNO Male Page 41	METRIC FS Male BSPT Male Page 64	METRIC FF Male METRIC FF Male Page 64
<b>J1M</b>	<b>JB1M</b>	<b>JM1M</b>	<b>JN1M</b>	<b>JP1M</b>	<b>JU1M</b>
					
JIC Male JIC Male Page 15	JIC Male BSPT Male Page 24	JIC Male METRIC Male Page 62	JIC Male NPT Male Page 59	JIC Male BSPP Male Page 27	JIC Male UNO Male Page 21
<b>JU1M EXT</b>	<b>K1M</b>	<b>N1M</b>	<b>NU1M</b>	<b>O1M</b>	<b>OB1M</b>
					
JIC Male (EXT) UNO Male Page 22	KOM Male KOM Male Page 65	NPT Male NPT Male Page 55	NPT Male UNO Male Page 42	ORFS Male ORFS Male Page 44	ORFS Male BSPT Male Page 54
<b>OJ1M</b>	<b>ON1M</b>	<b>OP1M</b>	<b>OU1M</b>	<b>P1M</b>	<b>PM1M</b>
					
ORFS Male JIC Male Page 49	ORFS Male NPT Male Page 54	ORFS Male BSPP Male Page 52	ORFS Male UNO Male Page 50	BSPP Male BSPP Male Page 40	BSPP Male METRIC Male Page 61

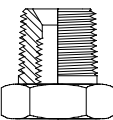
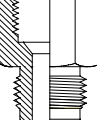
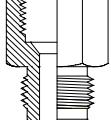
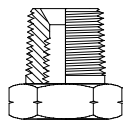
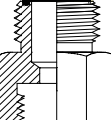
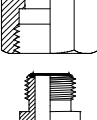


# Straight MxF

<b>B1MF</b>	<b>B1MFS</b>	<b>BJ1MFS</b>	<b>J1MFS</b>	<b>JB1MF</b>	<b>JB1MFS</b>
					
BSPT Male BSPT Female Page 31	BSPT Male BSPP Female Page 30	BSPT Male JIC Female Page 25	JIC Male JIC Female Page 16	JIC Male BSPT Female Page 25	JIC Male BSPP Female Page 25
<b>JN1MF</b>	<b>JO1MFS</b>	<b>N1MF</b>	<b>N1MFS</b>	<b>NJ1MFS</b>	<b>O1MFS</b>
					
JIC Male NPT Female Page 60	JIC Male ORFS Female Page 49	NPT Male NPT Female Page 56	NPT Male NPT Female Page 55	NPT Male JIC Female Page 60	ORFS Male ORFS Female Page 45
<b>OJ1MFS</b>	<b>P1MFS</b>	<b>PO1MFS</b>	<b>PJ1MFS</b>	<b>UB1MF</b>	<b>UB1MFS</b>
					
ORFS Male JIC Female Page 49	BSPP Male BSPP Female Page 39	BSPP Male ORFS Female Page 53	BSPP Male JIC Female Page 28	UNO Male BSPT Female Page 42	UNO Male BSPP Female Page 40
<b>UJ1MFS</b>	<b>UO1MFS</b>				
					
UNO Male JIC Female Page 22	UNO Male ORFS Female Page 51				

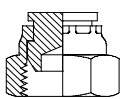
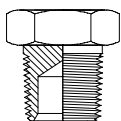
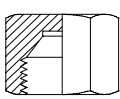
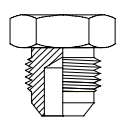
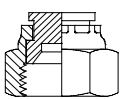
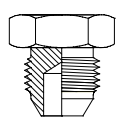
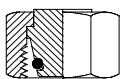
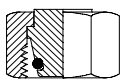
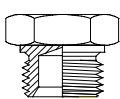
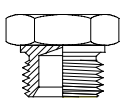
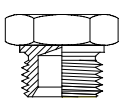
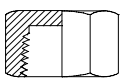
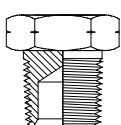
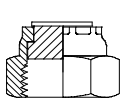
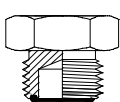
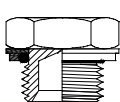
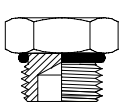
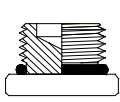
# Straight FxF

B1F	B1FS	N1F	U1F	J1FS	
					
BSPT Female BSPT Female	BSPT Female BSPP Female	NPT Female NPT Female	UNO Female UNO Female	JIC Female JIC Female	
Page 32	Page 32	Page 55	Page 43	Page 16	

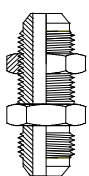
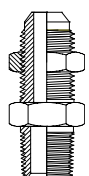
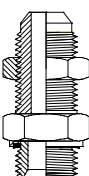
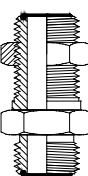
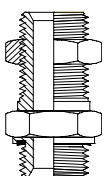
# Reducers & Expanders MxF

B1R	JTE	JTR	N1R	OTE	OTR
					
BSPT Male BSPT Female	JIC Female JIC Male	JIC Female JIC Male	NPT Male NPT Female	ORFS Female ORFS Male	ORFS Female ORFS Male
Page 35	Page 19	Page 19	Page 57	Page 46	Page 46
P1R	U1R				
					
BSPP Male BSPP Female	UNO Male UNO Female				
Page 35	Page 43				

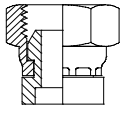
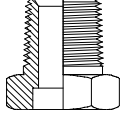
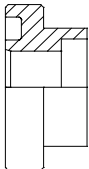
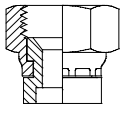
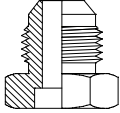
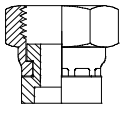
## Plugs & Caps

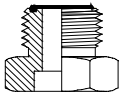
BC	BP	JCN	JP	KC	KP
					
BSPP Cap Page 36	BSPT Plug Page 36	JIC Cap Page 18	JIC Plug Page 18	KOMATSU Cap Page 65	KOMATSU Plug Page 65
MCH	MCL	MP	MPH	MPL	NC
					
Heavy Metric Cap Page 63	Light Metric Cap Page 63	Metric Stud Plug Page 62	Heavy Metric Plug Page 63	Light Metric Plug Page 63	NPT Cap Page 58
NP	OCN	OP	PP	UP	UP-CS
					
NPT Plug Page 58	ORFS Cap Page 48	ORFS Plug Page 48	BSPP Plug Page 36	UNO Plug Page 43	UNO Countersunk Plug Page 43

## Straight Bulkhead MxM

J10M	JB10M	JP10M	O10M	P10M
				
JIC B/H Male JIC Male Page 15	JIC B/H Male BSPT Male Page 25	JIC B/H Male BSPP Male Page 28	ORFS B/H Male ORFS Male Page 46	BSPP B/H Male BSPP Male Page 40

# Tube Welds

B25FS	B25M	F25M	J25FS	J25M	O25FS
					
BSPP Female TUBE	BSPT Male TUBE	C61 Flange TUBE	JIC Female TUBE	JIC Male TUBE	ORFS Female TUBE
Page 36	Page 36	Page 68	Page 20	Page 20	Page 48
<b>O25M</b>					

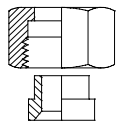


ORFS Male  
TUBE

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# Nut & Sleeve

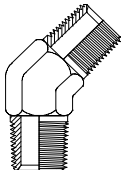
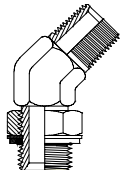
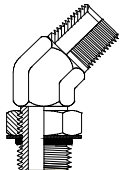
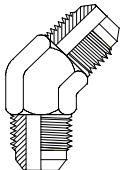
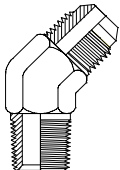
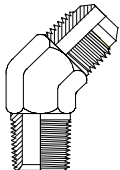
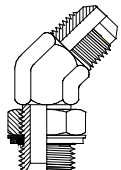
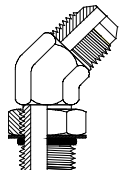
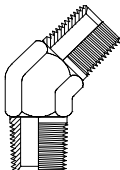
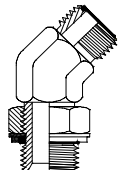
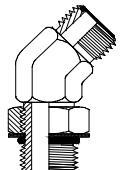
JNS					
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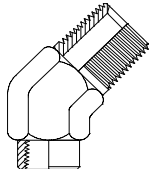
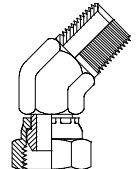
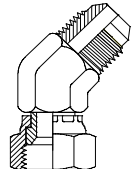
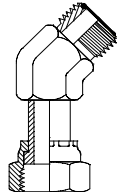
JIC Nut & Sleeve

Page 20

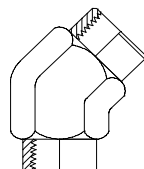
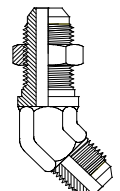
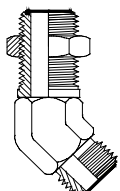
## 45° Elbow MxM

B4M	BP4M	BU4M	J4M	JB4M	JN4M
					
BSPT Male BSPT Male	BSPT Male BSPP Male	BSPT Male UNO Male	JIC Male JIC Male	JIC Male BSPT Male	JIC Male NPT Male
Page 29	Page 38	Page 41	Page 15	Page 24	Page 59
JP4M	JU4M	N4M	OP4M	OU4M	
					
JIC Male BSPP Male	JIC Male UNO Male	NPT Male NPT Male	ORFS Male BSPP Male	ORFS Male UNO Male	
Page 27	Page 21	Page 55	Page 52	Page 50	

## 45° Elbow MxF

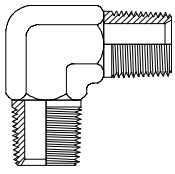
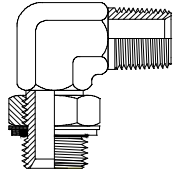
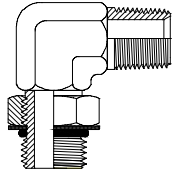
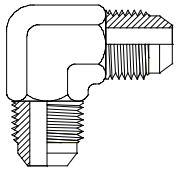
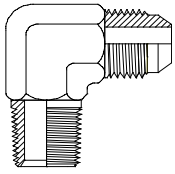
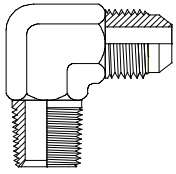
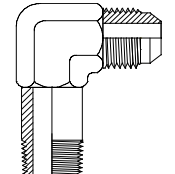
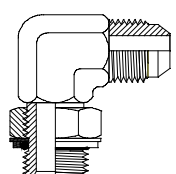
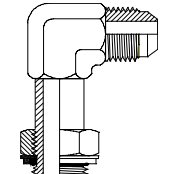
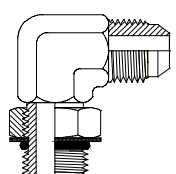
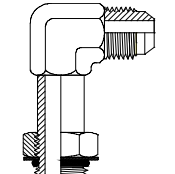
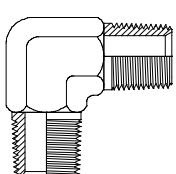
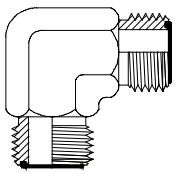
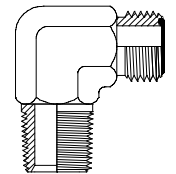
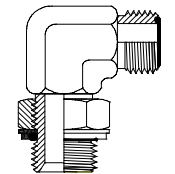
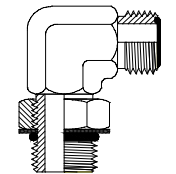
B4MF	B4MFS	J4MFS	O4MFS		
					
BSPT Male BSPT Female	BSPT Male BSPP Female	JIC Male JIC Female	ORFS Male ORFS Female		
Page 31	Page 30	Page 16	Page 45		

## 45° Elbow FxF

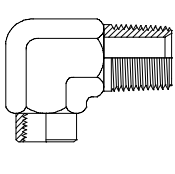
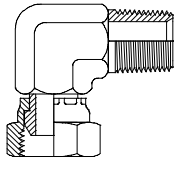
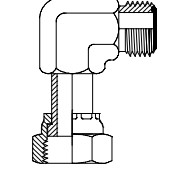
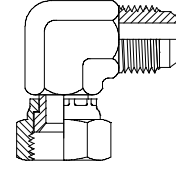
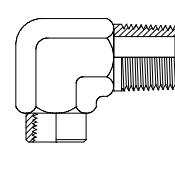
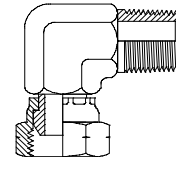
B4F			J40M	O40M	
					
BSPT Female BSPT Female			JIC B/H Male JIC Male	ORFS B/H Male ORFS Male	
Page 32			Page 15	Page 46	

## 45° Bulkhead Elbow MxM

## 90° Elbow MxM

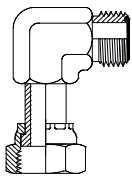
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BSPT Male BSPT Male	BSPT Male BSPP Male	BSPT Male UNO Male	JIC Male JIC Male	JIC Male BSPT Male	JIC Male NPT Male
Page 29	Page 38	Page 41	Page 15	Page 24	Page 59
JN9M EXT	JP9M	JP9M EXT	JU9M	JU9M EXT	N9M
					
JIC Male NPT Male (EXT)	JIC Male BSPP Male	JIC Male BSPP Male (EXT)	JIC Male UNO Male	JIC Male UNO Male (EXT)	NPT Male NPT Male
Page 60	Page 27	Page 28	Page 21	Page 22	Page 55
O9M	ON9M	OP9M	OU9M		
					
ORFS Male ORFS Male	ORFS Male NPT Male	ORFS Male BSPP Male	ORFS Male UNO Male		
Page 44	Page 54	Page 52	Page 50		

## 90° Elbow MxF

B9MF	B9MFS	C9MFS	J9MFS	N9MF	N9MFS
					
BSPT Male BSPT Female	BSPT Male BSPP Female	MFF Male MFF Female	JIC Male JIC Female	NPT Male NPT Female	NPT Male NPT Female
Page 31	Page 30	Page 64	Page 16	Page 56	Page 55

## 90° Elbow MxF

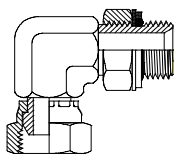
**O9MFS**



ORFS Male  
ORFS Female

Page 45

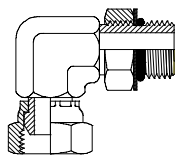
**P9MFS**



BSPP Male  
BSPP Female

Page 39

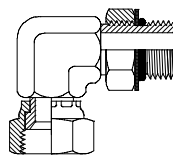
**UB9MFS**



UNO Male  
BSPP Female

Page 40

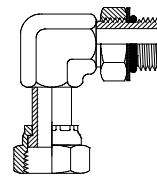
**UJ9MFS**



UNO Male  
JIC Female

Page 22

**UO9MFS**

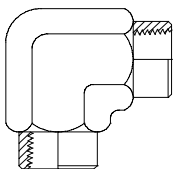


UNO Male  
ORFS Female

Page 51

## 90° Elbow FxF

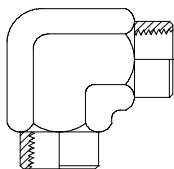
**B9F**



BSPT Female  
BSPT Female

Page 32

**N9F**

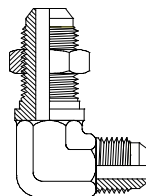


NPT Female  
NPT Female

Page 56

## 90° Bulkhead Elbow MxM

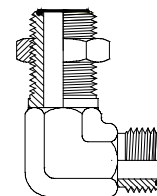
**J90M**



JIC B/H Male  
JIC Male

Page 15

**O90M**

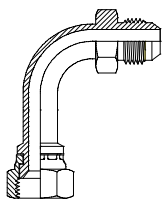


ORFS B/H Male  
ORFS Male

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## Tube Bends MxF

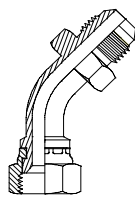
**JLT9MFS**



JIC Male  
JIC Female

Page 18

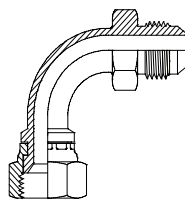
**JST4MFS**



JIC Male  
JIC Female

Page 18

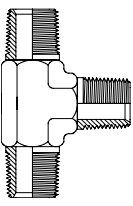
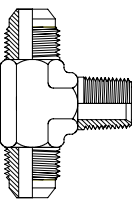
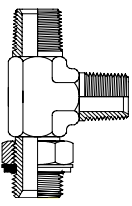
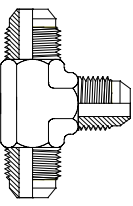
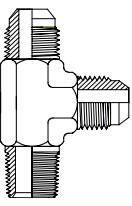
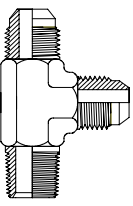
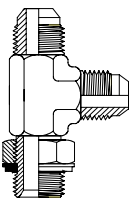
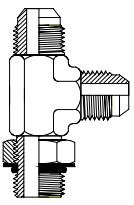
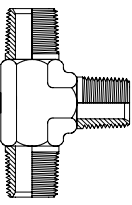
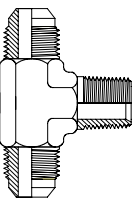
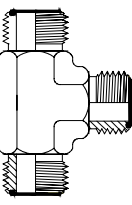
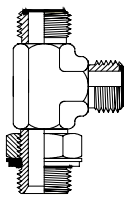
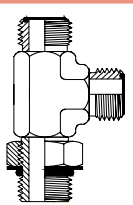
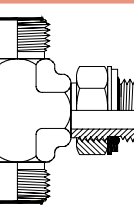
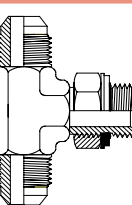
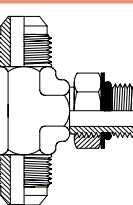
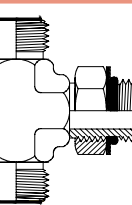
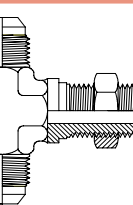
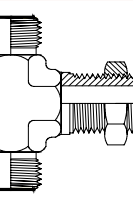
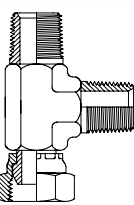
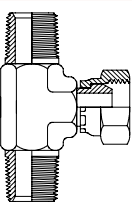
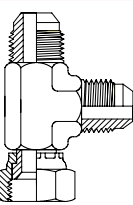
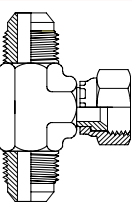
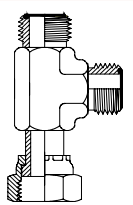
**JST9MFS**



JIC Male  
JIC Female

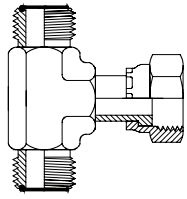
Page 18

# TEE

<b>B5M</b>	<b>BJ5M</b>	<b>BP5M</b>	<b>J5M</b>	<b>JB5M</b>	<b>JN5M</b>
					
<p>BSPT Male BSPT Male BSPT Male</p>	<p>JIC Male JIC Male BSPT Male</p>	<p>BSPT Male BSPP Male BSPT Male</p>	<p>JIC Male JIC Male JIC Male</p>	<p>JIC Male BSPT Male JIC Male</p>	<p>JIC Male NPT Male JIC Male</p>
<p>Page 33</p>	<p>Page 26</p>	<p>Page 34</p>	<p>Page 17</p>	<p>Page 26</p>	<p>Page 61</p>
<b>JP5M</b>	<b>JU5M</b>	<b>N5M</b>	<b>NJ5M</b>	<b>O5M</b>	<b>OP5M</b>
					
<p>JIC Male BSPP Male JIC Male</p>	<p>JIC Male UNO Male JIC Male</p>	<p>NPT Male NPT Male NPT Male</p>	<p>JIC Male JIC Male NPT Male</p>	<p>ORFS Male ORFS Male ORFS Male</p>	<p>ORFS Male BSPP Male ORFS Male</p>
<p>Page 26</p>	<p>Page 23</p>	<p>Page 56</p>	<p>Page 61</p>	<p>Page 47</p>	<p>Page 53</p>
<b>OU5M</b>	<b>PO5M</b>	<b>PJ5M</b>	<b>UJ5M</b>	<b>UO5M</b>	<b>J50M</b>
					
<p>ORFS Male UNO Male ORFS Male</p>	<p>ORFS Male ORFS Male BSPP Male</p>	<p>JIC Male JIC Male BSPP Male</p>	<p>JIC Male JIC Male UNO Male</p>	<p>ORFS Male ORFS Male UNO Male</p>	<p>JIC Male JIC Male JIC B/H Male</p>
<p>Page 51</p>	<p>Page 53</p>	<p>Page 26</p>	<p>Page 23</p>	<p>Page 51</p>	<p>Page 17</p>
<b>O50M</b>	<b>B5FSM</b>	<b>B5MFS</b>	<b>J5FSM</b>	<b>J5MFS</b>	<b>O5FSM</b>
					
<p>ORFS Male ORFS Male ORFS B/H Male</p>	<p>BSPT Male BSPP Female BSPT Male</p>	<p>BSPT Male BSPT Male BSPP Female</p>	<p>JIC Male JIC Female JIC Male</p>	<p>JIC Male JIC Male JIC Female</p>	<p>ORFS Male ORFS Female ORFS Male</p>
<p>Page 47</p>	<p>Page 33</p>	<p>Page 33</p>	<p>Page 17</p>	<p>Page 17</p>	<p>Page 47</p>

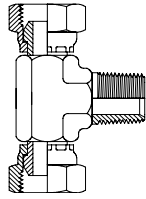
# TEE

O5MFS	B5FFSM	B5MFF	N5MFF	B5F	N5F
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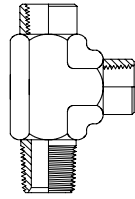
ORFS Male  
ORFS Male  
ORFS Female

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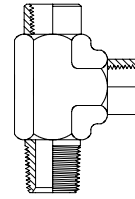
BSPP Female  
BSPP Female  
BSPT Male

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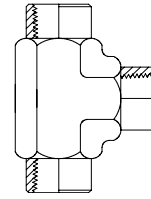
BSPT Female  
BSPT Male  
BSPT Female

Page 33



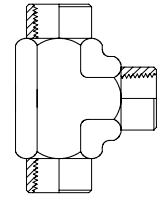
NPT Female  
NPT Male  
NPT Female

Page 56



BSPT Female  
BSPT Female  
BSPT Female

Page 33



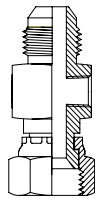
NPT Female  
NPT Female  
NPT Female

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## Adaptors MxF with Test Point

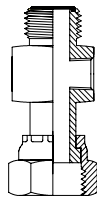
## Cross

J1MFS	O1MFS	P1MFS		BXF	JXM
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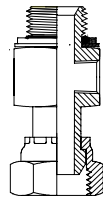
JIC Male  
JIC Female  
BSPT Female

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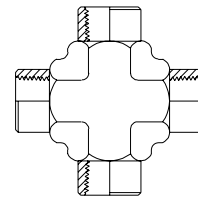
ORFS Male  
ORFS Female  
BSPT Female

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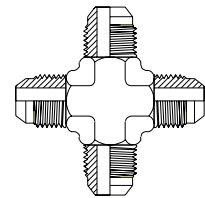
BSPP Male  
BSPP Female  
BSPT Female

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BSPT Female

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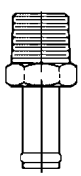


JIC Male

Page 17

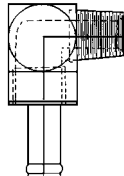
## Suction Hose Tails

BH1M	BH9M	UH1M	UH9M		
------	------	------	------	--	--



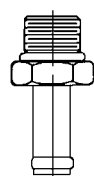
BSPT Male  
Hose Tail

Page 37



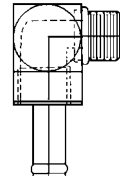
BSPT Male  
Hose Tail

Page 37



UNO Male  
Hose Tail

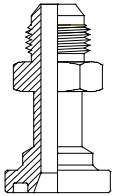
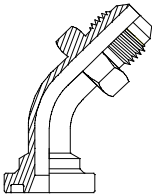
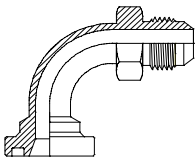
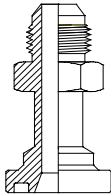
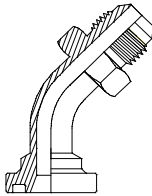
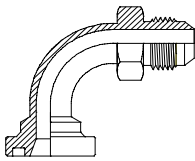
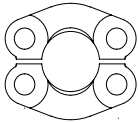
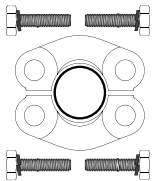
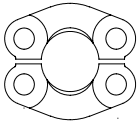
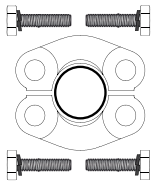


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UNO Male  
Hose Tail

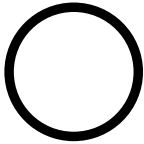
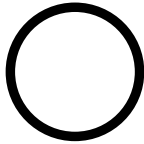
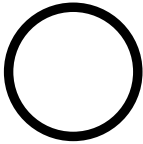
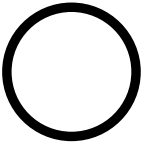
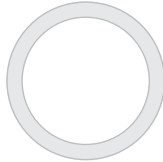
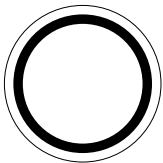
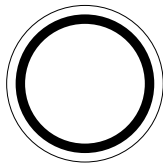

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# Flange Adaptors

JF1M	JF4M	JF9M	JFH1M	JFH4M	JFH9M
					
JIC Male C61 Flange	JIC Male C61 Flange	JIC Male C61 Flange	JIC Male C62 Flange	JIC Male C62 Flange	JIC Male C62 Flange
Page 66	Page 66	Page 66	Page 66	Page 66	Page 66
SF	SFK	SFH	SFHK	BD-61	BD-62
					
C61 Flanges (Pair)	C61 Flanges (Kit incl Bolts)	C62 Flanges (Pair)	C62 Flanges (Kit incl Bolts)	C61 Flange Blanking Disc	C62 Flange Blanking Disc
Page 67	Page 67	Page 67	Page 67	Page 68	Page 68

# Seals & O Rings

# CAT Flange Spacer

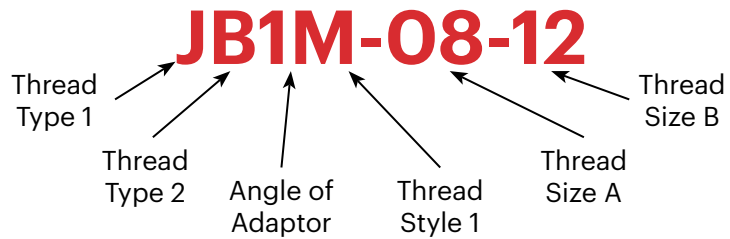
FOR	OOR	POR	UOR	FRS
				
Flange O Ring	ORFS O Ring	BSP O Ring	UNO O Ring	CAT Flange Ring Spacer
Page 70	Page 70	Page 69	Page 70	Page 67
BS	MSR	PRR		
				
BSPP O Ring	Metric Seal Ring	BSPP Retaining Ring		
Page 69	Page 69	Page 69		

# Hardy Spicer Part Number System

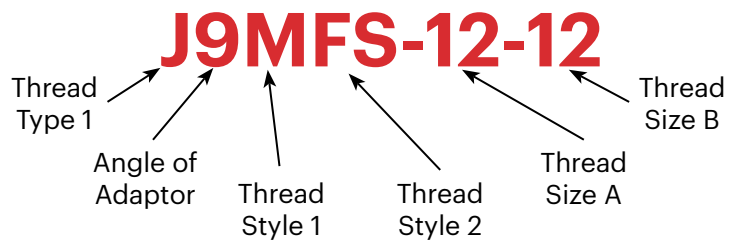
Thread Types	Angle	Thread Style
B = BSPT	1 = Staright Adaptor	M = Male
F = SAE Code 61 Flange	4 = 45° Bend/Elbow	F = Female
FH = SAE Code 62 Flange	5 = TEE	FS = Female Swivel
J = JIC	9 = 90° Bend/Elbow	C = Cap
M = Metric	10 = Straight Bulkhead	CN = Cap Nut
N = NPT	25 = Weld On	P = Plug
O = O-Ring Face Seal (ORFS)	40 = 45° Bulkhead Elbow	H = LP Hose Tail
P = BSPP	90 = 90° Bulkhead Elbow	R = Reducer
U = UNO (SAE O-Ring Boss)	50 = Bulkhead TEE	TE = Tube Expander
K = Komatsu Thread	X = Cross	TR = Tube Reducer

Thread Size	
Dash	Thread
-02	1/8"
-03	3/16"
-04	1/4"
-05	5/16"
-06	3/8"
-07	7/16"
-08	1/2"
-09	9/16"
-10	5/8"
-11	11/16"
-12	3/4"
-13	13/16"
-14	7/8"
-16	1"
-17	1-1/16"
-19	1-3/16"
-20	1-1/4"
-21	1-5/16"
-23	1-7/16"
-24	1-1/2"
-26	1-5/8"
-27	1-11/16"
-30	1-7/8"
-32	2"
-40	2-1/2"

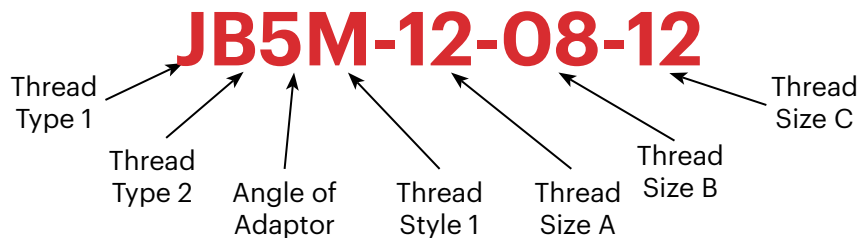
## Part Number System Examples



**JIC Male to BSPT Male Straight Adaptor 1/2" BSPT to 3/4" JIC**



**JIC 90° Male to Female Swivel 3/4" to 3/4"**



**JIC Male x BSPT Male x JIC Male TEE  
 3/4" JIC to 1/2" BSPT to 3/4" JIC**

Note: Metric is equal to thread size in mm

# Types of Adaptors

## Straight Nipples - Male to Male - Same Threads

- » JIC x JIC
- » BSPT x BSPT
- » BSPP x BSPP
- » ORFS x ORFS



## Adapting Nipples - Male to Male - Differing Threads

- » BSPT x JIC
- » BSPP x BSPT
- » METRIC x JIC
- » BSPP x JIC



## Reducing Adaptors - Female to Male - Same Threads

- » JIC Female x JIC Male
- » BSPP Female x BSPP Male
- » ORFS Female x ORFS Male



## Expanding Adaptors - Male to Female - Same Threads

- » JIC Male x JIC Female
- » ORFS Male x ORFS Female



## Straight Sockets - Female to Female - Same Threads

- » BSPT Female x BSPT Female
- » NPT Female x NPT Female
- » BSPT Female x BSPT Female



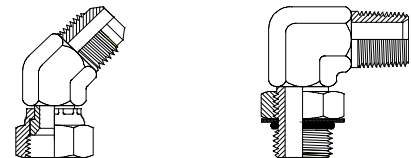
## Reducing Bushes - Male to Female - Same Threads

- » BSPT Male x BSPT Female
- » NPT Male x NPT Female



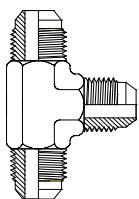
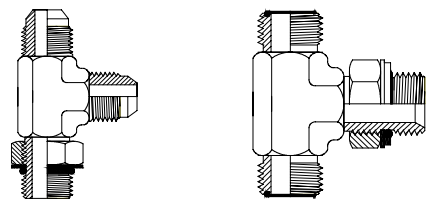
## Elbows - 45° or 90° - Various Types - Various Thread Styles

- » JIC Male x JIC Male
- » JIC Male x JIC Female
- » JIC Male x BSPP Female
- » ORFS Male x ORFS Female

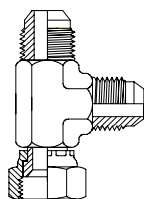


## TEES - 3 Way - Various Thread Types and Styles

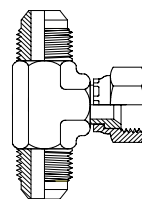
- » JIC Male x JIC Male x JIC Male
- » JIC Male x JIC Male x JIC Female (Branch TEE)
- » JIC Male x JIC Female x JIC Male (Running TEE)
- » JIC Male x JIC Male x UNO Male
- » JIC Male x BSPT Male x JIC Male
- » BSPT Female x BSPT Female x BSPT Female



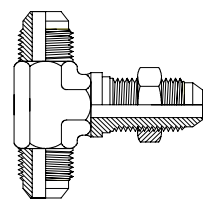
Equal TEE



Running TEE



Branch TEE



Bulkhead TEE

# Thread Identification Chart

## Thread size - Teeth per inch (TPI)

Dash Size	-05	-06	-07	-08	-09	-11	-12	-14	-17	-19	-21	-26	-32	-40
JIC 37° Flare Thread	5/16" - 24	3/8" - 24	7/16" - 20	1/2" - 20	9/16" - 18		3/4" - 16	7/8" - 14	1-1/16" - 12	1-3/16" - 12	1-5/16" - 12	1-5/8" - 12	1-7/8" - 12	2-1/2" - 12
SAE O-Ring Thread (UNO)	5/16" - 24	3/8" - 24	7/16" - 20	1/2" - 20	9/16" - 18		3/4" - 16	7/8" - 14	1-1/16" - 12	1-3/16" - 12	1-5/16" - 12	1-5/8" - 12	1-7/8" - 12	2-1/2" - 12
SAE 45° Flare Thread	5/16" - 24	3/8" - 24	7/16" - 20	1/2" - 20	5/8" - 18	11/16" - 16	3/4" - 16	7/8" - 14	1-1/16" - 14					
Inverted Flare Thread	5/16" - 28	3/8" - 24	7/16" - 24	1/2" - 20	5/8" - 18	11/16" - 18	3/4" - 18	7/8" - 18	1-1/16" - 16					

Dash Size	-02	-04	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48	
BSPP Thread	1/8" - 28	1/4" - 19	3/8" - 19	1/2" - 14	5/8" - 14	3/4" - 14	1" - 11	1-1/4" - 11	1-1/2" - 11	2" - 11	2-1/2" - 11	3" - 11	
BSPT Thread	1/8" - 28	1/4" - 19	3/8" - 19	1/2" - 14	5/8" - 14	3/4" - 14	1" - 11	1-1/4" - 11	1-1/2" - 11	2" - 11	2-1/2" - 11	3" - 11	
NPTF Pipe Thread	1/8" - 27	1/4" - 18	3/8" - 18	1/2" - 14		3/4" - 14	1" - 11 1/2	1-1/4" - 11 1/2	1-1/2" - 11 1/2	2" - 11 1/2	2-1/2" - 8	3" - 8	
NPSM Swivel Thread	1/8" - 27	1/4" - 18	3/8" - 18	1/2" - 14		3/4" - 14	1" - 11 1/2	1-1/4" - 11 1/2	1-1/2" - 11 1/2	2" - 11 1/2			
Japanese Pipe Tapered Thread	1/8" - 28	1/4" - 19	3/8" - 19	1/2" - 14	5/8" - 14	3/4" - 14	1" - 11	1-1/4" - 11	1-1/2" - 11	2" - 11			
Japanese Flare Thread	1/8" - 28	1/4" - 19	3/8" - 19	1/2" - 14	5/8" - 14	3/4" - 14	1" - 11	1-1/4" - 11	1-1/2" - 11	2" - 11			
Code 61 Flange Head O.D.				1.19 (30.20mm)	1.34 (34.16mm)	1.50 (38.10mm)	1.75 (44.45mm)	2.00 (50.80mm)	2.38 (60.33mm)	2.81 (71.42mm)	3.31 (84.12mm)	4.00 (101.6mm)	
Code 62 Flange Head O.D. (Incl. Caterpillar Flanges)				1.25 (31.75mm)		1.62 (41.28mm)	1.88 (47.63mm)	2.12 (53.98mm)	2.5 (63.50mm)	3.12 (79.38mm)			

Dash Size	-09	-11	-13	-16	-19	-23	-27	-32					
Flat-Face Thread (ORFS)	9/16" - 18	11/16" - 16	13/16" - 16	1" - 14	1-3/16" - 12	1-7/16" - 12	1-11/16" - 12	2" - 12					

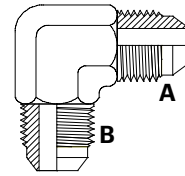
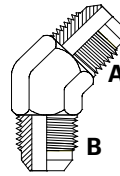
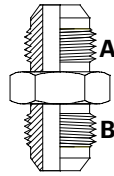
Metric (mm)	-12	-14	-16	-18	-20	-22	-24	-26	-30	-33	-36	-42	-45	-52
MDL	M12 x 1.5	M14 x 1.5	M16 x 1.5	M18 x 1.5		M22 x 1.5		M26 x 1.5	M30 x 2.0		M36 x 2.0		M45 x 2.0	M52 x 2.0
MDH		M14 x 1.5	M16 x 1.5	M18 x 1.5	M20 x 1.5	M22 x 1.5	M24 x 1.5		M30 x 2.0		M36 x 2.0	M42 x 2.0		M52 x 2.0
Komatsu		M14 x 1.5		M18 x 1.5		M22 x 1.5	M24 x 1.5		M30 x 1.5	M33 x 1.5	M36 x 1.5	M42 x 1.5		
French					M20 x 1.5		M24 x 1.5		M30 x 1.5		M36 x 1.5		M45 x 1.5	M52 x 1.5

## Conversion Chart

Imperial	Fraction	Metric	Imperial	Fraction	Metric	Imperial	Fraction	Metric
0.016	1/64	0.40	0.438	7/16	11.11	0.859	55/64	21.83
0.031	1/32	0.79	0.453	29/64	11.51	0.875	7/8	22.23
0.047	3/64	1.19	0.469	15/32	11.91	0.891	57/64	22.62
0.063	1/16	1.59	0.484	31/64	12.30	0.906	29/32	23.02
0.078	5/64	1.98	0.500	1/2	12.70	0.922	59/64	23.42
0.094	3/32	2.38	0.516	33/64	13.10	0.938	15/16	23.81
0.109	7/64	2.78	0.531	17/32	13.49	0.953	61/64	24.21
0.125	1/8	3.18	0.547	35/64	13.89	0.969	31/32	24.61
0.141	9/64	3.57	0.563	9/16	14.29	0.984	63/64	25.00
0.156	5/32	3.97	0.578	37/64	14.68	1.000	1	25.40
0.172	11/64	4.37	0.594	19/32	15.08	1.063	1 1/16	26.99
0.188	3/16	4.76	0.609	39/64	15.48	1.125	1 1/8	28.58
0.203	13/64	5.16	0.625	5/8	15.88	1.188	1 3/16	30.16
0.219	7/32	5.56	0.641	41/64	16.27	1.250	1 1/4	31.75
0.234	15/64	5.95	0.656	21/32	16.67	1.312	1 5/16	33.32
0.250	1/4	6.35	0.672	43/64	17.07	1.375	1 3/8	34.93
0.266	17/64	6.75	0.688	11/16	17.46	1.438	1 7/16	36.51
0.281	9/32	7.14	0.703	45/64	17.86	1.500	1 1/2	38.10
0.297	19/64	7.54	0.719	23/32	18.26	1.563	1 9/16	39.69
0.313	5/16	7.94	0.734	47/64	18.65	1.625	1 5/8	41.28
0.328	21/64	8.33	0.750	3/4	19.05	1.750	1 3/4	44.45
0.344	11/32	8.73	0.766	49/64	19.45	1.875	1 7/8	47.63
0.359	23/64	9.13	0.781	25/32	19.84	2.000	2	50.80
0.375	3/8	9.53	0.797	51/64	20.24	3.000	3	76.20
0.391	25/64	9.92	0.813	13/16	20.64	4.000	4	101.60
0.406	13/32	10.32	0.828	53/64	21.03	5.000	5	127.00
0.422	27/64	10.72	0.844	27/32	21.43	6.000	6	152.40

	<b>J1M</b>		<b>J4M</b>		<b>J9M</b>	
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**JIC**



JICM x JICM Nipple

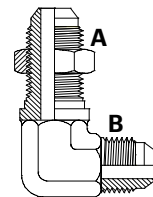
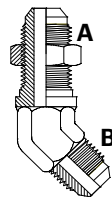
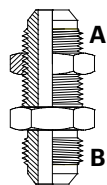
JICM x JICM 45° Elbow

JICM x JICM 90° Elbow

A JIC	B JIC	Part Number	Part Number	Part Number
7/16	7/16	<b>J1M-07-07</b>	<b>J4M-07-07</b>	<b>J9M-07-07</b>
1/2	1/2	<b>J1M-08-08</b>		<b>J9M-08-08</b> ¥
9/16	7/16	<b>J1M-09-07</b>		
9/16	9/16	<b>J1M-09-09</b>	<b>J4M-09-09</b>	<b>J9M-09-09</b>
3/4	9/16	<b>J1M-12-09</b>		<b>J9M-12-09</b> ¥
3/4	3/4	<b>J1M-12-12</b>	<b>J4M-12-12</b>	<b>J9M-12-12</b>
7/8	3/4	<b>J1M-14-12</b>		<b>J9M-14-12</b> ¥
7/8	7/8	<b>J1M-14-14</b>	<b>J4M-14-14</b>	<b>J9M-14-14</b>
1-1/16	3/4	<b>J1M-17-12</b>		
1-1/16	7/8	<b>J1M-17-14</b>		<b>J9M-17-14</b>
1-1/16	1-1/16	<b>J1M-17-17</b>	<b>J4M-17-17</b>	<b>J9M-17-17</b>
1-3/16	1-3/16	<b>J1M-19-19</b> ¥		
1-5/16	7/8	<b>J1M-21-14</b>		
1-5/16	1-1/16	<b>J1M-21-17</b>		<b>J9M-21-17</b> ¥
1-5/16	1-5/16	<b>J1M-21-21</b>	<b>J4M-21-21</b>	<b>J9M-21-21</b>
1-5/8	1-5/16	<b>J1M-26-21</b>		
1-5/8	1-5/8	<b>J1M-26-26</b>	<b>J4M-26-26</b> ¥	<b>J9M-26-26</b>
1-7/8	1-7/8	<b>J1M-30-30</b>		<b>J9M-30-30</b> ¥
2-1/2	2-1/2	<b>J1M-40-40</b>		<b>J9M-40-40</b>

	<b>J10M</b>		<b>J40M</b>		<b>J90M</b>	
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**JIC**



JICMBH x JICM

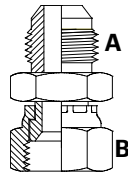
JICMBH x JICM 45° Elbow

JICMBH x JICM 90° Elbow

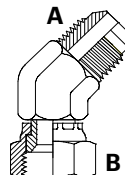
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9/16	9/16	<b>J10M-09-09</b>	<b>J40M-09-09</b>	<b>J90M-09-09</b>
3/4	3/4	<b>J10M-12-12</b>	<b>J40M-12-12</b>	<b>J90M-12-12</b>
7/8	7/8	<b>J10M-14-14</b>	<b>J40M-14-14</b> ¥	<b>J90M-14-14</b> ¥
1-1/16	1-1/16	<b>J10M-17-17</b>	<b>J40M-17-17</b>	<b>J90M-17-17</b>
1-5/16	1-5/16	<b>J10M-21-21</b>	<b>J40M-21-21</b> ¥	<b>J90M-21-21</b> ¥
1-5/8	1-5/8	<b>J10M-26-26</b>		
1-7/8	1-7/8	<b>J10M-30-30</b>		
2-1/2	2-1/2	<b>J10M-40-40</b>		

	<b>J1MFS</b>		<b>J4MFS</b>		<b>J9MFS</b>	
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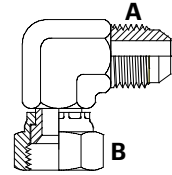
**JIC**



J1CM x J1CFS Adaptor



J1CM x J1CFS 45° Elbow

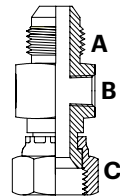


J1CM x J1CFS 90° Elbow

A JIC	B JIC	Part Number	Part Number	Part Number
7/16	7/16	<b>J1MFS-07-07</b>	<b>J4MFS-07-07</b>	<b>J9MFS-07-07</b>
1/2	1/2	<b>J1MFS-08-08</b>	<b>J4MFS-08-08</b> ¥	<b>J9MFS-08-08</b>
9/16	7/16	<b>J1MFS-09-07</b>		
9/16	9/16	<b>J1MFS-09-09</b>	<b>J4MFS-09-09</b>	<b>J9MFS-09-09</b>
3/4	9/16	<b>J1MFS-12-09</b>		
3/4	3/4	<b>J1MFS-12-12</b>	<b>J4MFS-12-12</b>	<b>J9MFS-12-12</b>
3/4	7/8	<b>J1MFS-12-14</b>		
7/8	7/8	<b>J1MFS-14-14</b>	<b>J4MFS-14-14</b>	<b>J9MFS-14-14</b>
1-1/16	7/8	<b>J1MFS-17-14</b>		
1-1/16	1-1/16	<b>J1MFS-17-17</b>	<b>J4MFS-17-17</b>	<b>J9MFS-17-17</b>
1-5/16	1-5/16	<b>J1MFS-21-21</b>	<b>J4MFS-21-21</b>	<b>J9MFS-21-21</b>
1-5/8	1-5/16	<b>J1MFS-26-21</b>		
1-5/8	1-5/8	<b>J1MFS-26-26</b>	<b>J4MFS-26-26</b>	<b>J9MFS-26-26</b>
1-7/8	1-7/8	<b>J1MFS-30-30</b>	<b>J4MFS-30-30</b>	<b>J9MFS-30-30</b>
2-1/2	2-1/2	<b>J1MFS-40-40</b>	<b>J4MFS-40-40</b>	<b>J9MFS-40-40</b>

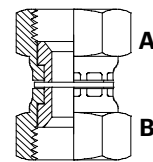
	<b>J1MFS</b>				<b>J1FS</b>	
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**JIC  
x  
BSP  
x  
JIC**



J1CM x BSPTF x J1CFS Test Point Adaptor

**JIC  
x  
JIC**

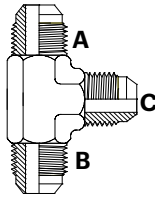


J1CFS x J1CFS Adaptor

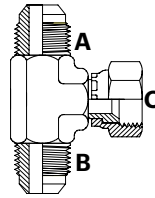
A JIC	B BSPT	C JIC	Part Number	A JIC	B JIC	Part Number
7/16	1/8	7/16	<b>J1MFS-07-02-07</b>	7/16	7/16	<b>J1FS-07-07</b>
9/16	1/8	9/16	<b>J1MFS-09-02-09</b>	9/16	9/16	<b>J1FS-09-09</b>
3/4	1/8	3/4	<b>J1MFS-12-02-12</b>	3/4	3/4	<b>J1FS-12-12</b>
7/8	1/8	7/8	<b>J1MFS-14-02-14</b>	7/8	7/8	<b>J1FS-14-14</b>
1-1/16	1/8	1-1/16	<b>J1MFS-17-02-17</b>	1-1/16	1-1/16	<b>J1FS-17-17</b>
1-5/16	1/8	1-5/16	<b>J1MFS-21-02-21</b>	1-5/16	1-5/16	<b>J1FS-21-21</b>
1-5/8	1/8	1-5/8	<b>J1MFS-26-02-26</b>	1-5/8	1-5/8	<b>J1FS-26-26</b>

	J5M	J5MFS	J5FSM
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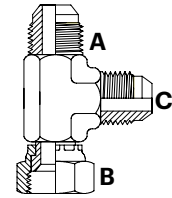
**JIC**



JICM x JICM x JICM Tee



JICM x JICM x JICFS Tee

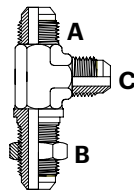


JICM x JICFS x JICM Tee

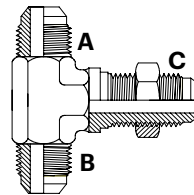
A JIC	B JIC	C JIC	Part Number		Part Number		Part Number
7/16	7/16	7/16	<b>J5M-07-07-07</b>		<b>J5MFS-07-07-07</b>		<b>J5FSM-07-07-07</b>
1/2	1/2	1/2	<b>J5M-08-08-08</b>	¥	<b>J5MFS-08-08-08</b>	¥	<b>J5FSM-08-08-08</b>
9/16	9/16	9/16	<b>J5M-09-09-09</b>		<b>J5MFS-09-09-09</b>		<b>J5FSM-09-09-09</b>
3/4	3/4	3/4	<b>J5M-12-12-12</b>		<b>J5MFS-12-12-12</b>		<b>J5FSM-12-12-12</b>
7/8	7/8	7/8	<b>J5M-14-14-14</b>		<b>J5MFS-14-14-14</b>		<b>J5FSM-14-14-14</b>
1-1/16	1-1/16	1-1/16	<b>J5M-17-17-17</b>		<b>J5MFS-17-17-17</b>		<b>J5FSM-17-17-17</b>
1-5/16	1-5/16	1-5/16	<b>J5M-21-21-21</b>		<b>J5MFS-21-21-21</b>		<b>J5FSM-21-21-21</b>
1-5/8	1-5/8	1-5/8	<b>J5M-26-26-26</b>		<b>J5MFS-26-26-26</b>		<b>J5FSM-26-26-26</b>
1-7/8	1-7/8	1-7/8	<b>J5M-30-30-30</b>	¥	<b>J5MFS-30-30-30</b>		<b>J5FSM-30-30-30</b>
2-1/2	2-1/2	2-1/2	<b>J5M-40-40-40</b>	¥	<b>J5MFS-40-40-40</b>	¥	<b>J5FSM-40-40-40</b>

	J50M	J50M	JXM
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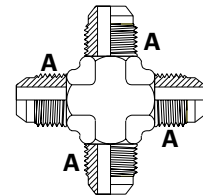
**JIC**



JICM x JICMBH x JICM Tee



JICM x JICM x JICMBH Tee

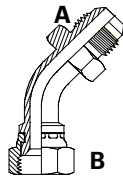


JICM Cross

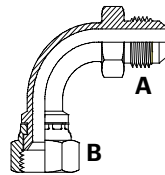
A JIC	B JIC	C JIC	Part Number		Part Number		Part Number
7/16	7/16	7/16	<b>J50M-07-07-07</b>		<b>J50M-07-07-07D</b>		<b>JXM-07</b>
1/2	1/2	1/2	<b>J50M-08-08-08</b>		<b>J50M-08-08-08D</b>		
9/16	9/16	9/16	<b>J50M-09-09-09</b>		<b>J50M-09-09-09D</b>		<b>JXM-09</b>
3/4	3/4	3/4	<b>J50M-12-12-12</b>		<b>J50M-12-12-12D</b>		
7/8	7/8	7/8	<b>J50M-14-14-14</b>		<b>J50M-14-14-14D</b>		
1-1/16	1-1/16	1-1/16	<b>J50M-17-17-17</b>		<b>J50M-17-17-17D</b>		
1-5/16	1-5/16	1-5/16	<b>J50M-21-21-21</b>		<b>J50M-21-21-21D</b>		
1-5/8	1-5/8	1-5/8	<b>J50M-26-26-26</b>	¥	<b>J50M-26-26-26D</b>		

	<b>JST4MFS</b>	<b>JST9MFS</b>	<b>JLT9MFS</b>
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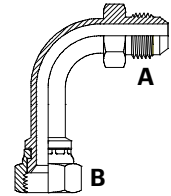
**JIC**



JICM x JICFS 45° Bend



JICM x JICFS 90° Bend

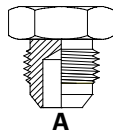


JICM x JICFS 90° Long Bend

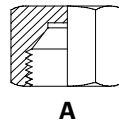
A JIC	B JIC	Part Number	Part Number	Part Number
7/16	7/16	<b>JST4MFS-07-07</b>	<b>JST9MFS-07-07</b>	<b>JLT9MFS-07-07</b>
9/16	9/16	<b>JST4MFS-09-09</b>	<b>JST9MFS-09-09</b>	<b>JLT9MFS-09-09</b>
3/4	3/4	<b>JST4MFS-12-12</b>	<b>JST9MFS-12-12</b>	<b>JLT9MFS-12-12</b>
7/8	7/8	<b>JST4MFS-14-14</b>	<b>JST9MFS-14-14</b>	<b>JLT9MFS-14-14</b>
1-1/16	1-1/16	<b>JST4MFS-17-17</b>	<b>JST9MFS-17-17</b>	<b>JLT9MFS-17-17</b>
1-5/16	1-5/16	<b>JST4MFS-21-21</b>	<b>JST9MFS-21-21</b>	<b>JLT9MFS-21-21</b>
1-5/8	1-5/8	<b>JST4MFS-26-26</b>	<b>JST9MFS-26-26</b>	<b>JLT9MFS-26-26</b>
1-7/8	1-7/8	<b>JST4MFS-30-30</b>	<b>JST9MFS-30-30</b>	

	<b>JP</b>	<b>JCN</b>	
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**JIC**



JIC Plug



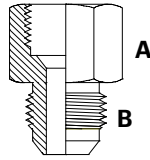
JIC Cap

A JIC	Part Number	Part Number
7/16	<b>JP-07</b>	<b>JCN-07</b>
1/2	<b>JP-08</b>	<b>JCN-08</b>
9/16	<b>JP-09</b>	<b>JCN-09</b>
3/4	<b>JP-12</b>	<b>JCN-12</b>
7/8	<b>JP-14</b>	<b>JCN-14</b>
1-1/16	<b>JP-17</b>	<b>JCN-17</b>
1-3/16	<b>JP-19</b>	<b>JCN-19</b>
1-5/16	<b>JP-21</b>	<b>JCN-21</b>
1-5/8	<b>JP-26</b>	<b>JCN-26</b>
1-7/8	<b>JP-30</b>	<b>JCN-30</b>
2-1/2	<b>JP-40</b>	<b>JCN-40</b>

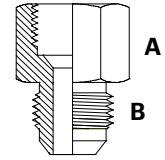
**JTR**

**JTE**

**JIC**



**JIC**



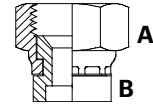
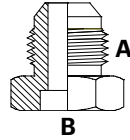
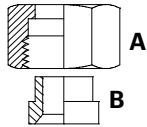
*JICF x JICM Tube Reducer*

*JICF x JICM Tube Expander*

A JIC	B JIC	Part Number	A JIC	B JIC	Part Number
1/2	7/16	<b>JTR-08-07</b>	3/8	7/16	<b>JTE-06-07</b>
9/16	7/16	<b>JTR-09-07</b>	7/16	9/16	<b>JTE-07-09</b>
3/4	7/16	<b>JTR-12-07</b>	7/16	3/4	<b>JTE-07-12</b>
3/4	9/16	<b>JTR-12-09</b>	1/2	9/16	<b>JTE-08-09</b>
7/8	7/16	<b>JTR-14-07</b>	9/16	3/4	<b>JTE-09-12</b>
7/8	9/16	<b>JTR-14-09</b>	3/4	7/8	<b>JTE-12-14</b>
7/8	3/4	<b>JTR-14-12</b>	3/4	1-1/16	<b>JTE-12-17</b>
1-1/16	7/16	<b>JTR-17-07</b>	3/4	1-5/16	<b>JTE-12-21</b>
1-1/16	9/16	<b>JTR-17-09</b>	7/8	1-1/16	<b>JTE-14-17</b>
1-1/16	3/4	<b>JTR-17-12</b>	7/8	1-5/16	<b>JTE-14-21</b> ¥
1-1/16	7/8	<b>JTR-17-14</b>	1-1/16	1-5/16	<b>JTE-17-21</b>
1-5/16	9/16	<b>JTR-21-09</b>	1-1/16	1-5/8	<b>JTE-17-26</b> ¥
1-5/16	3/4	<b>JTR-21-12</b>	1-5/16	1-5/8	<b>JTE-21-26</b>
1-5/16	7/8	<b>JTR-21-14</b>	1-5/16	1-7/8	<b>JTE-21-30</b>
1-5/16	1-1/16	<b>JTR-21-17</b>	1-5/8	1-7/8	<b>JTE-26-30</b>
1-5/8	1-1/16	<b>JTR-26-17</b>	1-7/8	2-1/2	<b>JTE-30-40</b>
1-5/8	1-5/16	<b>JTR-26-21</b>			
1-7/8	1-5/16	<b>JTR-30-21</b>			
1-7/8	1-5/8	<b>JTR-30-26</b>			
2-1/2	1-7/8	<b>JTR-40-30</b>			

	<b>JNS</b>	<b>J25M</b>	<b>J25FS</b>
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# JIC



*JIC Flare Tube Nut & Sleeve*

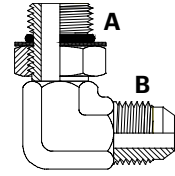
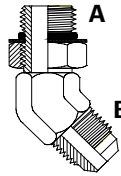
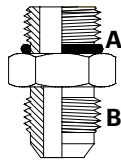
*JIC Male Tube Weld*

*JIC Female Tube Weld*

A JIC	B TUBE	Part Number	Part Number	Part Number
7/16	1/4	<b>JNS-07</b>	<b>J25M-07-04</b>	<b>J25FS-07-04</b>
7/16	3/8		<b>J25M-07-06</b>	
9/16	3/8	<b>JNS-09</b>	<b>J25M-09-06</b>	<b>J25FS-09-06</b>
9/16	1/2		<b>J25M-09-08</b>	
3/4	1/2	<b>JNS-12</b>	<b>J25M-12-08</b>	<b>J25FS-12-08</b>
3/4	5/8		<b>J25M-12-10</b>	<b>J25FS-12-10</b>
7/8	1/2			<b>J25FS-14-08</b> ¥
7/8	5/8	<b>JNS-14</b>	<b>J25M-14-10</b>	<b>J25FS-14-10</b>
7/8	3/4		<b>J25M-14-12</b>	
1-1/16	5/8		<b>J25M-17-10</b> ¥	
1-1/16	3/4	<b>JNS-17</b>	<b>J25M-17-12</b>	<b>J25FS-17-12</b>
1-1/16	1		<b>J25M-17-16</b>	<b>J25FS-17-16</b>
1-5/16	1	<b>JNS-21</b>	<b>J25M-21-16</b>	<b>J25FS-21-16</b>
1-5/16	1-1/4		<b>J25M-21-20</b>	<b>J25FS-21-20</b>
1-5/8	1-1/4	<b>JNS-26</b>	<b>J25M-26-20</b>	<b>J25FS-26-20</b> ¥
1-5/8	1-1/2		<b>J25M-26-24</b>	
1-7/8	1-1/2	<b>JNS-30</b>	<b>J25M-30-24</b>	
2-1/2	2	<b>JNS-40</b>	<b>J25M-40-32</b>	

	JU1M	JU4M	JU9M
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**UNO  
X  
JIC**



UNOM x JICM Nipple

UNOM x JICM 45° Elbow

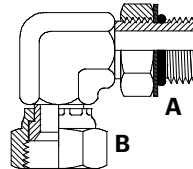
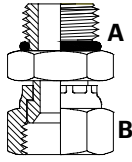
UNOM x JICM 90° Elbow

A UNO	B JIC	Part Number		Part Number		Part Number	
7/16	7/16	JU1M-07-07		JU4M-07-07		JU9M-07-07	
7/16	9/16	JU1M-07-09		JU4M-07-09		JU9M-07-09	
7/16	3/4	JU1M-07-12				JU9M-07-12	
1/2	7/16	JU1M-08-07	¥			JU9M-08-07	
1/2	1/2	JU1M-08-08				JU9M-08-08	
1/2	9/16	JU1M-08-09				JU9M-08-09	
9/16	7/16	JU1M-09-07		JU4M-09-07		JU9M-09-07	
9/16	9/16	JU1M-09-09		JU4M-09-09		JU9M-09-09	
9/16	3/4	JU1M-09-12		JU4M-09-12		JU9M-09-12	
3/4	7/16	JU1M-12-07				JU9M-12-07	
3/4	1/2	JU1M-12-08					
3/4	9/16	JU1M-12-09		JU4M-12-09		JU9M-12-09	
3/4	3/4	JU1M-12-12		JU4M-12-12		JU9M-12-12	
3/4	7/8	JU1M-12-14		JU4M-12-14		JU9M-12-14	
3/4	1-1/16	JU1M-12-17				JU9M-12-17	
7/8	9/16	JU1M-14-09		JU4M-14-09		JU9M-14-09	
7/8	3/4	JU1M-14-12		JU4M-14-12	¥	JU9M-14-12	
7/8	7/8	JU1M-14-14		JU4M-14-14		JU9M-14-14	
7/8	1-1/16	JU1M-14-17		JU4M-14-17		JU9M-14-17	
7/8	1-5/16	JU1M-14-21				JU9M-14-21	
1-1/16	9/16	JU1M-17-09				JU9M-17-09	
1-1/16	3/4	JU1M-17-12				JU9M-17-12	
1-1/16	7/8	JU1M-17-14		JU4M-17-14		JU9M-17-14	
1-1/16	1-1/16	JU1M-17-17		JU4M-17-17		JU9M-17-17	
1-1/16	1-5/16	JU1M-17-21		JU4M-17-21		JU9M-17-21	
1-1/16	1-5/8	JU1M-17-26					
1-3/16	1-1/16	JU1M-19-17	¥			JU9M-19-17	
1-3/16	1-5/16	JU1M-19-21				JU9M-19-21	
1-5/16	3/4	JU1M-21-12				JU9M-21-12	¥
1-5/16	7/8	JU1M-21-14				JU9M-21-14	
1-5/16	1-1/16	JU1M-21-17		JU4M-21-17		JU9M-21-17	
1-5/16	1-5/16	JU1M-21-21		JU4M-21-21		JU9M-21-21	
1-5/16	1-5/8	JU1M-21-26				JU9M-21-26	¥
1-5/8	1-1/16	JU1M-26-17				JU9M-26-17	
1-5/8	1-5/16	JU1M-26-21		JU4M-26-21		JU9M-26-21	
1-5/8	1-5/8	JU1M-26-26		JU4M-26-26	¥	JU9M-26-26	
1-7/8	1-5/8	JU1M-30-26	¥			JU9M-30-26	
1-7/8	1-7/8	JU1M-30-30				JU9M-30-30	
2-1/2	2-1/2	JU1M-40-40				JU9M-40-40	

## UJ1MFS

## UJ9MFS

**UNO  
X  
JIC**



UNOM x JICFS Adaptor

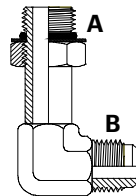
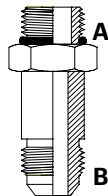
UNOM x JICFS 90° Elbow

A UNO	B JIC	Part Number	Part Number	
7/16	7/16	<b>UJ1MFS-07-07</b>	<b>UJ9MFS-07-07</b>	¥
7/16	9/16	<b>UJ1MFS-07-09</b>		
9/16	9/16	<b>UJ1MFS-09-09</b>	<b>UJ9MFS-09-09</b>	¥
9/16	3/4	<b>UJ1MFS-09-12</b>		
3/4	9/16	<b>UJ1MFS-12-09</b>		
3/4	3/4	<b>UJ1MFS-12-12</b>	<b>UJ9MFS-12-12</b>	
3/4	7/8	<b>UJ1MFS-12-14</b>		
7/8	3/4	<b>UJ1MFS-14-12</b>		
7/8	7/8	<b>UJ1MFS-14-14</b>	<b>UJ9MFS-14-14</b>	
1-1/16	1-1/16	<b>UJ1MFS-17-17</b>	<b>UJ9MFS-17-17</b>	¥
1-5/16	1-5/16	<b>UJ1MFS-21-21</b>	<b>UJ9MFS-21-21</b>	¥
1-5/8	1-5/8	<b>UJ1MFS-26-26</b>	<b>UJ9MFS-26-26</b>	¥
1-7/8	1-7/8	<b>UJ1MFS-30-30</b>	<b>UJ9MFS-30-30</b>	¥

## JU1M EXT

## JU9M EXT

**UNO  
X  
JIC**



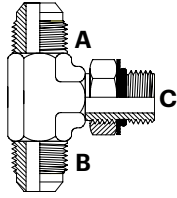
UNOM x JICM EXT NIPPLE

UNOM x JICM EXT 90° Bend

A UNO	B JIC	Part Number	Part Number	
7/16	7/16	<b>JU1M-07-07E53</b>		¥
9/16	9/16	<b>JU1M-09-09E59</b>	<b>JU9M-09-09L</b>	¥
9/16	3/4	<b>JU1M-09-12E66</b>		¥
3/4	3/4	<b>JU1M-12-12E69</b>	<b>JU9M-12-12L</b>	¥
7/8	3/4	<b>JU1M-14-12E75</b>	<b>JU9M-14-12L</b>	¥
7/8	7/8	<b>JU1M-14-14E75</b>	<b>JU9M-14-14L</b>	¥
1-1/16	1-1/16	<b>JU1M-17-17E92</b>	<b>JU9M-17-17L</b>	¥
1-5/16	1-5/16	<b>JU1M-21-21E101</b>	<b>JU9M-21-21L</b>	¥
1-5/8	1-5/8	<b>JU1M-26-26E119</b>		¥

## UJ5M

**JIC  
X  
UNO**

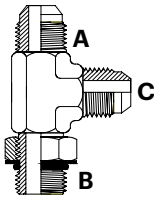


*JICM x JICM x UNOM Tee*

A JIC	B JIC	C UNO	Part Number					
7/16	7/16	7/16	<b>UJ5M-07-07-07</b>					
9/16	9/16	9/16	<b>UJ5M-09-09-09</b>					
3/4	3/4	3/4	<b>UJ5M-12-12-12</b>					
7/8	7/8	7/8	<b>UJ5M-14-14-14</b>					
1-1/16	1-1/16	1-1/16	<b>UJ5M-17-17-17</b>	¥				
1-5/16	1-5/16	1-5/16	<b>UJ5M-21-21-21</b>	¥				
1-5/8	1-5/8	1-5/8	<b>UJ5M-26-26-26</b>	¥				
1-7/8	1-7/8	1-7/8	<b>UJ5M-30-30-30</b>	¥				
2-1/2	2-1/2	2-1/2	<b>UJ5M-40-40-40</b>	¥				

## JU5M

**JIC  
X  
UNO**

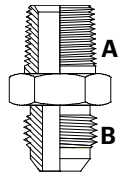


*JICM x UNOM x JICM Tee*

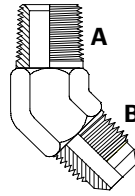
A JIC	B UNO	C JIC	Part Number					
7/16	7/16	7/16	<b>JU5M-07-07-07</b>					
9/16	9/16	9/16	<b>JU5M-09-09-09</b>					
3/4	3/4	3/4	<b>JU5M-12-12-12</b>					
7/8	7/8	7/8	<b>JU5M-14-14-14</b>	¥				
1-1/16	1-1/16	1-1/16	<b>JU5M-17-17-17</b>	¥				
1-5/16	1-5/16	1-5/16	<b>JU5M-21-21-21</b>	¥				
1-5/8	1-5/8	1-5/8	<b>JU5M-26-26-26</b>	¥				
1-7/8	1-7/8	1-7/8	<b>JU5M-30-30-30</b>	¥				
2-1/2	2-1/2	2-1/2	<b>JU5M-40-40-40</b>	¥				

	<b>JB1M</b>	<b>JB4M</b>	<b>JB9M</b>
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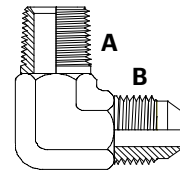
**BSPT  
X  
JIC**



*BSPTM x JICM Nipple*



*BSPTM x JICM 45° Elbow*

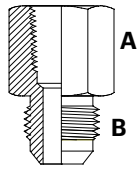


*BSPTM x JICM 90° Elbow*

A BSPT	B JIC	Part Number		Part Number		Part Number	
1/8	3/8	<b>JB1M-02-06</b>	¥				
1/8	7/16	<b>JB1M-02-07</b>		<b>JB4M-02-07</b>		<b>JB9M-02-07</b>	
1/8	1/2	<b>JB1M-02-08</b>				<b>JB9M-02-08</b>	¥
1/8	9/16	<b>JB1M-02-09</b>		<b>JB4M-02-09</b>		<b>JB9M-02-09</b>	
1/4	7/16	<b>JB1M-04-07</b>		<b>JB4M-04-07</b>		<b>JB9M-04-07</b>	
1/4	1/2	<b>JB1M-04-08</b>				<b>JB9M-04-08</b>	
1/4	9/16	<b>JB1M-04-09</b>		<b>JB4M-04-09</b>		<b>JB9M-04-09</b>	
1/4	3/4	<b>JB1M-04-12</b>		<b>JB4M-04-12</b>	¥	<b>JB9M-04-12</b>	
1/4	7/8	<b>JB1M-04-14</b>					
3/8	7/16	<b>JB1M-06-07</b>				<b>JB9M-06-07</b>	
3/8	1/2	<b>JB1M-06-08</b>				<b>JB9M-06-08</b>	¥
3/8	9/16	<b>JB1M-06-09</b>		<b>JB4M-06-09</b>		<b>JB9M-06-09</b>	
3/8	3/4	<b>JB1M-06-12</b>		<b>JB4M-06-12</b>		<b>JB9M-06-12</b>	
3/8	7/8	<b>JB1M-06-14</b>		<b>JB4M-06-14</b>		<b>JB9M-06-14</b>	
3/8	1-1/16	<b>JB1M-06-17</b>	¥				
1/2	7/16	<b>JB1M-08-07</b>				<b>JB9M-08-07</b>	
1/2	9/16	<b>JB1M-08-09</b>		<b>JB4M-08-09</b>	¥	<b>JB9M-08-09</b>	
1/2	3/4	<b>JB1M-08-12</b>		<b>JB4M-08-12</b>		<b>JB9M-08-12</b>	
1/2	7/8	<b>JB1M-08-14</b>		<b>JB4M-08-14</b>		<b>JB9M-08-14</b>	
1/2	1-1/16	<b>JB1M-08-17</b>		<b>JB4M-08-17</b>	¥	<b>JB9M-08-17</b>	
1/2	1-5/16	<b>JB1M-08-21</b>	¥				
3/4	9/16	<b>JB1M-12-09</b>				<b>JB9M-12-09</b>	¥
3/4	3/4	<b>JB1M-12-12</b>		<b>JB4M-12-12</b>		<b>JB9M-12-12</b>	
3/4	7/8	<b>JB1M-12-14</b>		<b>JB4M-12-14</b>	¥	<b>JB9M-12-14</b>	
3/4	1-1/16	<b>JB1M-12-17</b>		<b>JB4M-12-17</b>		<b>JB9M-12-17</b>	
3/4	1-5/16	<b>JB1M-12-21</b>		<b>JB4M-12-21</b>	¥	<b>JB9M-12-21</b>	
1	3/4	<b>JB1M-16-12</b>					
1	7/8	<b>JB1M-16-14</b>					
1	1-1/16	<b>JB1M-16-17</b>				<b>JB9M-16-17</b>	
1	1-5/16	<b>JB1M-16-21</b>		<b>JB4M-16-21</b>		<b>JB9M-16-21</b>	
1	1-5/8	<b>JB1M-16-26</b>				<b>JB9M-16-26</b>	
1-1/4	1-1/16	<b>JB1M-20-17</b>				<b>JB9M-20-17</b>	
1-1/4	1-5/16	<b>JB1M-20-21</b>				<b>JB9M-20-21</b>	
1-1/4	1-5/8	<b>JB1M-20-26</b>		<b>JB4M-20-26</b>	¥	<b>JB9M-20-26</b>	
1-1/4	1-7/8	<b>JB1M-20-30</b>					
1-1/2	1-5/16	<b>JB1M-24-21</b>					
1-1/2	1-5/8	<b>JB1M-24-26</b>				<b>JB9M-24-26</b>	
1-1/2	1-7/8	<b>JB1M-24-30</b>		<b>JB4M-24-30</b>		<b>JB9M-24-30</b>	
2	1-7/8	<b>JB1M-32-30</b>					
2	2-1/2	<b>JB1M-32-40</b>				<b>JB9M-32-40</b>	

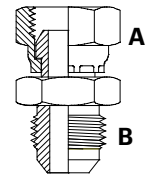
	<b>JB1MF</b>		<b>JB1MFS</b>
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**BSPT  
X  
JIC**



*BSPTF x JICM Adaptor*

**BSPP  
X  
JIC**

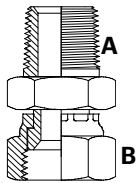


*BSPPFs x JICM Adaptor*

A BSPT	B JIC	Part Number		A BSPP	B JIC	Part Number	
1/8	7/16	<b>JB1MF-02-07</b>		1/8	7/16		
1/4	7/16	<b>JB1MF-04-07</b>		1/4	7/16	<b>JB1MFS-04-07</b>	
1/4	9/16	<b>JB1MF-04-09</b>		1/4	9/16		
3/8	9/16	<b>JB1MF-06-09</b>		3/8	9/16		
3/8	3/4	<b>JB1MF-06-12</b>		3/8	3/4	<b>JB1MFS-06-12</b>	
1/2	9/16	<b>JB1MF-08-09</b>		1/2	9/16		
1/2	3/4	<b>JB1MF-08-12</b>		1/2	3/4	<b>JB1MFS-08-12</b>	
1/2	7/8	<b>JB1MF-08-14</b>		1/2	7/8		
3/4	1-1/16	<b>JB1MF-12-17</b>		3/4	1-1/16	<b>JB1MFS-12-17</b>	

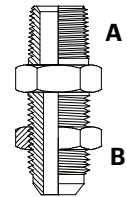
	<b>BJ1MFS</b>		<b>JB10M</b>
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**BSPT  
X  
JIC**



*BSPTM x JICFS Adaptor*

**BSPT  
X  
JIC**

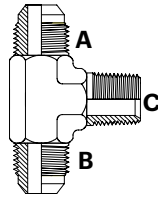


*BSPTM x JICMBH*

A BSPT	B JIC	Part Number		A BSPT	B JIC	Part Number	
1/8	7/16	<b>BJ1MFS-02-07</b>		1/4	7/16	<b>JB10M-04-07</b>	¥
1/4	7/16	<b>BJ1MFS-04-07</b>		3/8	9/16	<b>JB10M-06-09</b>	¥
1/4	1/2	<b>BJ1MFS-04-08</b>		1/2	3/4	<b>JB10M-08-12</b>	¥
1/4	9/16	<b>BJ1MFS-04-09</b>		1/2	7/8	<b>JB10M-08-14</b>	¥
1/4	3/4	<b>BJ1MFS-04-12</b>		3/4	1-1/16	<b>JB10M-12-17</b>	¥
3/8	9/16	<b>BJ1MFS-06-09</b>		1	1-5/16	<b>JB10M-16-21</b>	¥
3/8	3/4	<b>BJ1MFS-06-12</b>					
3/8	7/8	<b>BJ1MFS-06-14</b>					
1/2	9/16	<b>BJ1MFS-08-09</b>					
1/2	3/4	<b>BJ1MFS-08-12</b>					
1/2	7/8	<b>BJ1MFS-08-14</b>					
1/2	1-1/16	<b>BJ1MFS-08-17</b>					
3/4	7/8	<b>BJ1MFS-12-14</b>					
3/4	1-1/16	<b>BJ1MFS-12-17</b>					
3/4	1-5/16	<b>BJ1MFS-12-21</b>					
1	1-1/16	<b>BJ1MFS-16-17</b>	¥				
1	1-5/16	<b>BJ1MFS-16-21</b>					
1-1/4	1-5/16	<b>BJ1MFS-20-21</b>	¥				
1-1/4	1-5/8	<b>BJ1MFS-20-26</b>					
1-1/2	1-7/8	<b>BJ1MFS-24-30</b>					
2	2-1/2	<b>BJ1MFS-32-40</b>					

	<b>BJ5M</b>		<b>JB5M</b>
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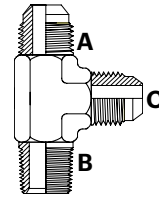
**JIC  
X  
BSPT**



*JICM x JICM x BSPTM Tee*

A JIC	B JIC	C BSPT	Part Number	
7/16	7/16	1/8	<b>BJ5M-07-07-02</b>	
7/16	7/16	1/4	<b>BJ5M-07-07-04</b>	¥
9/16	9/16	1/4	<b>BJ5M-09-09-04</b>	¥
9/16	9/16	3/8	<b>BJ5M-09-09-06</b>	¥
3/4	3/4	3/8	<b>BJ5M-12-12-06</b>	¥
3/4	3/4	1/2	<b>BJ5M-12-12-08</b>	
7/8	7/8	1/2	<b>BJ5M-14-14-08</b>	¥
1-1/16	1-1/16	3/4	<b>BJ5M-17-17-12</b>	
1-5/16	1-5/16	1	<b>BJ5M-21-21-16</b>	¥

**JIC  
X  
BSPT**

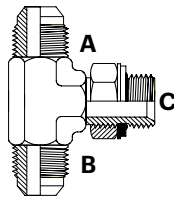


*JICM x BSPTM x JICM Tee*

A JIC	B BSPT	C JIC	Part Number	
7/16	1/4	7/16	<b>JB5M-07-04-07</b>	
9/16	1/4	9/16	<b>JB5M-09-04-09</b>	
9/16	3/8	9/16	<b>JB5M-09-06-09</b>	¥
3/4	3/8	3/4	<b>JB5M-12-06-12</b>	
3/4	1/2	3/4	<b>JB5M-12-08-12</b>	
7/8	1/2	7/8	<b>JB5M-14-08-14</b>	¥
1-1/16	3/4	1-1/16	<b>JB5M-17-12-17</b>	¥
1-5/16	1	1-5/16	<b>JB5M-21-16-21</b>	¥

	<b>PJ5M</b>		<b>JP5M</b>
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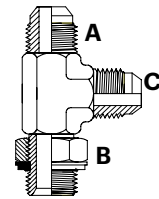
**JIC  
X  
BSPP**



*JICM x JICM x BSPPM Tee*

A JIC	B JIC	C BSPP	Part Number	
7/16	7/16	1/4	<b>PJ5M-07-07-04</b>	¥
9/16	9/16	1/4	<b>PJ5M-09-09-04</b>	
9/16	9/16	3/8	<b>PJ5M-09-09-06</b>	
3/4	3/4	3/8	<b>PJ5M-12-12-06</b>	¥
3/4	3/4	1/2	<b>PJ5M-12-12-08</b>	¥
7/8	7/8	1/2	<b>PJ5M-14-14-08</b>	¥
1-1/16	1-1/16	3/4	<b>PJ5M-17-17-12</b>	¥
1-5/16	1-5/16	1	<b>PJ5M-21-21-16</b>	¥
1-5/8	1-5/8	1-1/4	<b>PJ5M-26-26-20</b>	¥

**JIC  
X  
BSPP**

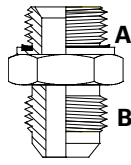


*JICM x BSPPM x JICM Tee*

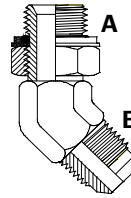
A JIC	B BSPP	C JIC	Part Number	
7/16	1/4	7/16	<b>JP5M-07-04-07</b>	
9/16	1/4	9/16	<b>JP5M-09-04-09</b>	¥
9/16	3/8	9/16	<b>JP5M-09-06-09</b>	
3/4	3/8	3/4	<b>JP5M-12-06-12</b>	¥
3/4	1/2	3/4	<b>JP5M-12-08-12</b>	
7/8	3/4	7/8	<b>JP5M-14-12-14</b>	¥
1-1/16	3/4	1-1/16	<b>JP5M-17-12-17</b>	¥
1-5/16	1	1-5/16	<b>JP5M-21-16-21</b>	¥
1-5/8	1-1/4	1-5/8	<b>JP5M-26-20-26</b>	¥

	<b>JP1M</b>	<b>JP4M</b>	<b>JP9M</b>
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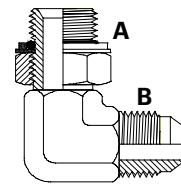
**BSPP  
X  
JIC**



BSPPM x JICM Nipple



BSPPM x JICM 45° Elbow

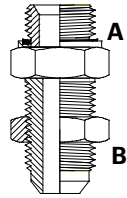


BSPPM x JICM 90° Elbow

A BSPP	B JIC	Part Number		Part Number		Part Number	
1/8	7/16	<b>JP1M-02-07</b>				<b>JP9M-02-07</b>	
1/8	9/16	<b>JP1M-02-09</b>				<b>JP9M-02-09</b>	
1/4	7/16	<b>JP1M-04-07</b>		<b>JP4M-04-07</b>		<b>JP9M-04-07</b>	
1/4	1/2	<b>JP1M-04-08</b>	¥			<b>JP9M-04-08</b>	¥
1/4	9/16	<b>JP1M-04-09</b>		<b>JP4M-04-09</b>		<b>JP9M-04-09</b>	
1/4	3/4	<b>JP1M-04-12</b>				<b>JP9M-04-12</b>	
3/8	7/16	<b>JP1M-06-07</b>				<b>JP9M-06-07</b>	
3/8	9/16	<b>JP1M-06-09</b>		<b>JP4M-06-09</b>		<b>JP9M-06-09</b>	
3/8	3/4	<b>JP1M-06-12</b>		<b>JP4M-06-12</b>		<b>JP9M-06-12</b>	
3/8	7/8	<b>JP1M-06-14</b>				<b>JP9M-06-14</b>	
3/8	1-1/16	<b>JP1M-06-17</b>					
1/2	7/16	<b>JP1M-08-07</b>					
1/2	9/16	<b>JP1M-08-09</b>		<b>JP4M-08-09</b>	¥	<b>JP9M-08-09</b>	
1/2	3/4	<b>JP1M-08-12</b>		<b>JP4M-08-12</b>		<b>JP9M-08-12</b>	
1/2	7/8	<b>JP1M-08-14</b>		<b>JP4M-08-14</b>	¥	<b>JP9M-08-14</b>	
1/2	1-1/16	<b>JP1M-08-17</b>				<b>JP9M-08-17</b>	
3/4	9/16	<b>JP1M-12-09</b>				<b>JP9M-12-09</b>	¥
3/4	3/4	<b>JP1M-12-12</b>				<b>JP9M-12-12</b>	
3/4	7/8	<b>JP1M-12-14</b>				<b>JP9M-12-14</b>	
3/4	1-1/16	<b>JP1M-12-17</b>		<b>JP4M-12-17</b>		<b>JP9M-12-17</b>	
3/4	1-5/16	<b>JP1M-12-21</b>				<b>JP9M-12-21</b>	
1	3/4	<b>JP1M-16-12</b>					
1	1-1/16	<b>JP1M-16-17</b>				<b>JP9M-16-17</b>	
1	1-5/16	<b>JP1M-16-21</b>		<b>JP4M-16-21</b>		<b>JP9M-16-21</b>	
1	1-5/8	<b>JP1M-16-26</b>		<b>JP4M-16-26</b>	¥	<b>JP9M-16-26</b>	¥
1-1/4	1-1/16	<b>JP1M-20-17</b>				<b>JP9M-20-17</b>	
1-1/4	1-5/16	<b>JP1M-20-21</b>				<b>JP9M-20-21</b>	
1-1/4	1-5/8	<b>JP1M-20-26</b>		<b>JP4M-20-26</b>	¥	<b>JP9M-20-26</b>	
1-1/4	1-7/8	<b>JP1M-20-30</b>					
1-1/2	1-5/16	<b>JP1M-24-21</b>					
1-1/2	1-5/8	<b>JP1M-24-26</b>				<b>JP9M-24-26</b>	
1-1/2	1-7/8	<b>JP1M-24-30</b>				<b>JP9M-24-30</b>	
2	1-7/8	<b>JP1M-32-30</b>					
2	2-1/2	<b>JP1M-32-40</b>					

## JP10M

**BSPP  
X  
JIC**

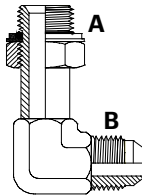


BSPPM x JICMBH

A BSPP	B JIC	Part Number	
1/4	7/16	<b>JP10M-04-07</b>	¥
3/8	9/16	<b>JP10M-06-09</b>	¥
1/2	3/4	<b>JP10M-08-12</b>	¥
1	1-5/16	<b>JP10M-16-21</b>	¥

## JP9M EXT

**BSPP  
X  
JIC**

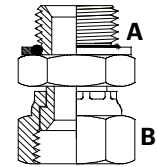


BSPTM x JICM Elbow 90° EXT

A BSPP	B JIC	Part Number	
3/8	9/16	<b>JP9M-06-09E</b>	¥
3/8	3/4	<b>JP9M-06-12E</b>	¥
1/2	3/4	<b>JP9M-08-12E</b>	¥
1/2	7/8	<b>JP9M-08-14E</b>	¥
3/4	1-1/16	<b>JP9M-12-17E</b>	¥
1	1-5/16	<b>JP9M-16-21E</b>	¥

## PJ1MFS

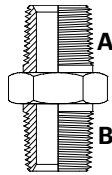
**BSPP  
X  
JIC**



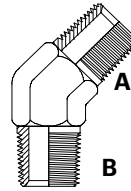
BSPPM x JICFS Adaptor

A BSPP	B JIC	Part Number	
1/8	7/16	<b>PJ1MFS-02-07</b>	
1/4	7/16	<b>PJ1MFS-04-07</b>	
1/4	9/16	<b>PJ1MFS-04-09</b>	
3/8	7/16	<b>PJ1MFS-06-07</b>	¥
3/8	9/16	<b>PJ1MFS-06-09</b>	
3/8	3/4	<b>PJ1MFS-06-12</b>	
3/8	7/8	<b>PJ1MFS-06-14</b>	
1/2	9/16	<b>PJ1MFS-08-09</b>	
1/2	3/4	<b>PJ1MFS-08-12</b>	
1/2	7/8	<b>PJ1MFS-08-14</b>	
1/2	1-1/16	<b>PJ1MFS-08-17</b>	
3/4	3/4	<b>PJ1MFS-12-12</b>	
3/4	7/8	<b>PJ1MFS-12-14</b>	
3/4	1-1/16	<b>PJ1MFS-12-17</b>	
3/4	1-5/16	<b>PJ1MFS-12-21</b>	
1	1-1/16	<b>PJ1MFS-16-17</b>	
1	1-5/16	<b>PJ1MFS-16-21</b>	
1	1-5/8	<b>PJ1MFS-16-26</b>	
1-1/4	1-5/16	<b>PJ1MFS-20-21</b>	
1-1/4	1-5/8	<b>PJ1MFS-20-26</b>	
1-1/2	1-7/8	<b>PJ1MFS-24-30</b>	

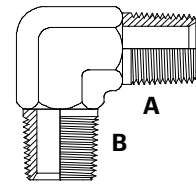
# BSPT



BSPTM x BSPTM Nipple



BSPTM x BSPTM 45° Elbow



BSPTM x BSPTM 90° Elbow

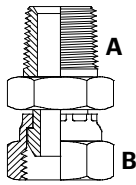
A BSPT	B BSPT	Part Number	Part Number	Part Number
1/8	1/8	<b>B1M-02-02</b>	<b>B4M-02-02</b> ¥	<b>B9M-02-02</b>
1/4	1/8	<b>B1M-04-02</b>		<b>B9M-04-02</b>
1/4	1/4	<b>B1M-04-04</b>	<b>B4M-04-04</b>	<b>B9M-04-04</b>
3/8	1/8	<b>B1M-06-02</b> ¥		
3/8	1/4	<b>B1M-06-04</b>	<b>B4M-06-04</b> ¥	<b>B9M-06-04</b>
3/8	3/8	<b>B1M-06-06</b>	<b>B4M-06-06</b>	<b>B9M-06-06</b>
1/2	1/4	<b>B1M-08-04</b>		<b>B9M-08-04</b>
1/2	3/8	<b>B1M-08-06</b>	<b>B4M-08-06</b> ¥	<b>B9M-08-06</b>
1/2	1/2	<b>B1M-08-08</b>	<b>B4M-08-08</b>	<b>B9M-08-08</b>
5/8	1/2	<b>B1M-10-08</b>		
5/8	5/8	<b>B1M-10-10</b> ¥		
3/4	1/4	<b>B1M-12-04</b>		
3/4	3/8	<b>B1M-12-06</b>		
3/4	1/2	<b>B1M-12-08</b>	<b>B4M-12-08</b>	<b>B9M-12-08</b>
3/4	5/8	<b>B1M-12-10</b> ¥		
3/4	3/4	<b>B1M-12-12</b>	<b>B4M-12-12</b>	<b>B9M-12-12</b>
1	3/8	<b>B1M-16-06</b>		
1	1/2	<b>B1M-16-08</b>		
1	3/4	<b>B1M-16-12</b>	<b>B4M-16-12</b> ¥	<b>B9M-16-12</b>
1	1	<b>B1M-16-16</b>	<b>B4M-16-16</b>	<b>B9M-16-16</b>
1-1/4	3/4	<b>B1M-20-12</b>		<b>B9M-20-12</b> ¥
1-1/4	1	<b>B1M-20-16</b>		<b>B9M-20-16</b>
1-1/4	1-1/4	<b>B1M-20-20</b>		<b>B9M-20-20</b>
1-1/2	1	<b>B1M-24-16</b>		
1-1/2	1-1/4	<b>B1M-24-20</b>		
1-1/2	1-1/2	<b>B1M-24-24</b>		<b>B9M-24-24</b>
2	1-1/4	<b>B1M-32-20</b> ¥		
2	1-1/2	<b>B1M-32-24</b>		
2	2	<b>B1M-32-32</b>		<b>B9M-32-32</b>

## B1MFS

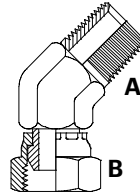
## B4MFS

## B9MFS

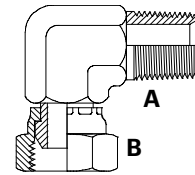
# BSPT X BSPP



BSPTM x BSPPFS Adaptor

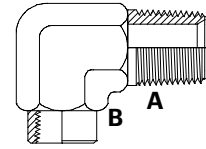
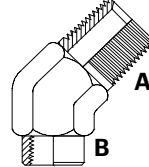
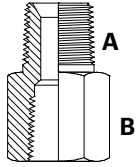


BSPTM x BSPPFS 45° Elbow



BSPTM x BSPPFS 90° Elbow

A BSPT	B BSPP	Part Number	Part Number	Part Number
1/8	1/8	<b>B1MFS-02-02</b>	<b>B4MFS-02-02</b>	<b>B9MFS-02-02</b>
1/4	1/8	<b>B1MFS-04-02</b> ¥		
1/4	1/4	<b>B1MFS-04-04</b>	<b>B4MFS-04-04</b>	<b>B9MFS-04-04</b>
1/4	3/8	<b>B1MFS-04-06</b>		<b>B9MFS-04-06</b> ¥
1/4	1/2	<b>B1MFS-04-08</b>		
3/8	1/4	<b>B1MFS-06-04</b>		<b>B9MFS-06-04</b> ¥
3/8	3/8	<b>B1MFS-06-06</b>	<b>B4MFS-06-06</b>	<b>B9MFS-06-06</b>
3/8	1/2	<b>B1MFS-06-08</b>		<b>B9MFS-06-08</b>
3/8	3/4	<b>B1MFS-06-12</b>		
1/2	1/4	<b>B1MFS-08-04</b>		
1/2	3/8	<b>B1MFS-08-06</b>		<b>B9MFS-08-06</b>
1/2	1/2	<b>B1MFS-08-08</b>	<b>B4MFS-08-08</b>	<b>B9MFS-08-08</b>
1/2	3/4	<b>B1MFS-08-12</b>		<b>B9MFS-08-12</b> ¥
3/4	1/2	<b>B1MFS-12-08</b>		<b>B9MFS-12-08</b> ¥
3/4	3/4	<b>B1MFS-12-12</b>	<b>B4MFS-12-12</b>	<b>B9MFS-12-12</b>
3/4	1	<b>B1MFS-12-16</b>		<b>B9MFS-12-16</b>
1	1/2	<b>B1MFS-16-08</b> ¥		
1	3/4	<b>B1MFS-16-12</b>		<b>B9MFS-16-12</b> ¥
1	1	<b>B1MFS-16-16</b>	<b>B4MFS-16-16</b>	<b>B9MFS-16-16</b>
1	1-1/4	<b>B1MFS-16-20</b>		
1-1/4	1	<b>B1MFS-20-16</b>		
1-1/4	1-1/4	<b>B1MFS-20-20</b>	<b>B4MFS-20-20</b>	<b>B9MFS-20-20</b>
1-1/2	1-1/2	<b>B1MFS-24-24</b>	<b>B4MFS-24-24</b> ¥	<b>B9MFS-24-24</b>
2	2	<b>B1MFS-32-32</b> ¥		<b>B9MFS-32-32</b>

**B1MF****B4MF****B9MF****BSPT**

BSPTM x BSPTF Adaptor

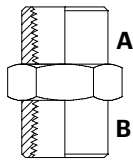
BSPTM x BSPTF 45° Elbow

BSPTM x BSPTF 90° Elbow

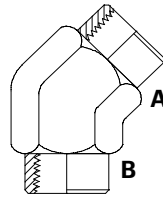
A BSPT	B BSPT	Part Number	Part Number	Part Number
1/8	1/8	<b>B1MF-02-02</b>	<b>B4MF-02-02</b>	<b>B9MF-02-02</b>
1/8	1/4	<b>B1MF-02-04</b>		
1/4	1/4	<b>B1MF-04-04</b>	<b>B4MF-04-04</b>	<b>B9MF-04-04</b>
1/4	3/8	<b>B1MF-04-06</b>		
1/4	1/2	<b>B1MF-04-08</b>	¥	
3/8	3/8	<b>B1MF-06-06</b>	<b>B4MF-06-06</b>	<b>B9MF-06-06</b>
3/8	1/2	<b>B1MF-06-08</b>		<b>B9MF-06-08</b> ¥
1/2	1/2	<b>B1MF-08-08</b>	<b>B4MF-08-08</b>	<b>B9MF-08-08</b>
1/2	3/4	<b>B1MF-08-12</b>		
1/2	1	<b>B1MF-08-16</b>		
3/4	3/4	<b>B1MF-12-12</b>	<b>B4MF-12-12</b> ¥	<b>B9MF-12-12</b>
1	1	<b>B1MF-16-16</b>	<b>B4MF-16-16</b> ¥	<b>B9MF-16-16</b>
1-1/4	1-1/4	<b>B1MF-20-20</b> ¥		<b>B9MF-20-20</b>
1-1/2	1-1/2			<b>B9MF-24-24</b>

	<b>B1F</b>	<b>B4F</b>	<b>B9F</b>
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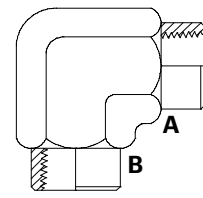
## BSPT



*BSPTF x BSPTF Socket*



*BSPTF x BSPTF 45° Elbow*

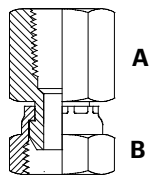


*BSPTF x BSPTF 90° Elbow*

A BSPT	B BSPT	Part Number	Part Number	Part Number	
1/8	1/8	<b>B1F-02-02</b>	<b>B4F-02-02</b>	<b>B9F-02-02</b>	
1/4	1/8	<b>B1F-04-02</b>			
1/4	1/4	<b>B1F-04-04</b>	<b>B4F-04-04</b>	<b>B9F-04-04</b>	
3/8	1/4	<b>B1F-06-04</b>			
3/8	3/8	<b>B1F-06-06</b>	<b>B4F-06-06</b>	<b>B9F-06-06</b>	
1/2	1/4	<b>B1F-08-04</b>			
1/2	3/8	<b>B1F-08-06</b>			
1/2	1/2	<b>B1F-08-08</b>	<b>B4F-08-08</b>	<b>B9F-08-08</b>	
3/4	1/2	<b>B1F-12-08</b>			
3/4	3/4	<b>B1F-12-12</b>	<b>B4F-12-12</b>	<b>B9F-12-12</b>	¥
1	3/4	<b>B1F-16-12</b>			
1	1	<b>B1F-16-16</b>	<b>B4F-16-16</b>	<b>B9F-16-16</b>	
1-1/4	1-1/4	<b>B1F-20-20</b>		<b>B9F-20-20</b>	¥
1-1/2	1-1/2	<b>B1F-24-24</b>		<b>B9F-24-24</b>	
2	2	<b>B1F-32-32</b>		<b>B9F-32-32</b>	

	<b>B1FS</b>		
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## BSPT X BSPP



*BSPTF x BSPPFS Adaptor*

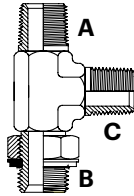
A BSPT	B BSPP	Part Number			
1/4	1/4	<b>B1FS-04-04</b>			
3/8	3/8	<b>B1FS-06-06</b>	¥		
1/2	1/2	<b>B1FS-08-08</b>	¥		
3/4	3/4	<b>B1FS-12-12</b>	¥		
1	1	<b>B1FS-16-16</b>			

			<b>B5M</b>		<b>B5F</b>		<b>B5MFF</b>	
<b>BSPT</b>								
			<i>BSPTM x BSPTM x BSPTM Tee</i>		<i>BSPTF x BSPTF x BSPTF Tee</i>		<i>BSPTF x BSPTM x BSPTF Tee</i>	
A BSPT	B BSPT	C BSPT	Part Number		Part Number		Part Number	
1/8	1/8	1/8	<b>B5M-02-02-02</b>		<b>B5F-02-02-02</b>		<b>B5MFF-02-02-02</b>	
1/4	1/4	1/4	<b>B5M-04-04-04</b>		<b>B5F-04-04-04</b>		<b>B5MFF-04-04-04</b>	
3/8	3/8	3/8	<b>B5M-06-06-06</b>		<b>B5F-06-06-06</b>		<b>B5MFF-06-06-06</b>	
1/2	1/2	1/2	<b>B5M-08-08-08</b>		<b>B5F-08-08-08</b>		<b>B5MFF-08-08-08</b>	
3/4	3/4	3/4	<b>B5M-12-12-12</b>		<b>B5F-12-12-12</b>		<b>B5MFF-12-12-12</b>	
1	1	1	<b>B5M-16-16-16</b>		<b>B5F-16-16-16</b>		<b>B5MFF-16-16-16</b>	¥
1-1/4	1-1/4	1-1/4	<b>B5M-20-20-20</b>	¥	<b>B5F-20-20-20</b>			
1-1/2	1-1/2	1-1/2	<b>B5M-24-24-24</b>		<b>B5F-24-24-24</b>			
2	2	2			<b>B5F-32-32-32</b>			

			<b>B5FFSM</b>		<b>B5FSM</b>		<b>B5MFS</b>	
<b>BSPT X BSPP</b>								
			<i>BSPFS x BSPFS x BSPTM Tee</i>		<i>BSPTM x BSPPFS x BSPTM Running Tee</i>		<i>BSPTM x BSPTM x BSPPFS Branch Tee</i>	
A BSP	B BSP	C BSP	Part Number		Part Number		Part Number	
1/8	1/8	1/8			<b>B5FSM-02-02-02</b>			
1/4	1/4	1/4	<b>B5FFSM-04-04-04</b>	¥	<b>B5FSM-04-04-04</b>		<b>B5MFS-04-04-04</b>	
3/8	3/8	3/8	<b>B5FFSM-06-06-06</b>	¥	<b>B5FSM-06-06-06</b>		<b>B5MFS-06-06-06</b>	
1/2	1/2	1/2	<b>B5FFSM-08-08-08</b>	¥	<b>B5FSM-08-08-08</b>		<b>B5MFS-08-08-08</b>	
3/4	3/4	3/4	<b>B5FFSM-12-12-12</b>	¥	<b>B5FSM-12-12-12</b>		<b>B5MFS-12-12-12</b>	
1	1	1	<b>B5FFSM-16-16-16</b>	¥	<b>B5FSM-16-16-16</b>		<b>B5MFS-16-16-16</b>	
1-1/4	1-1/4	1-1/4			<b>B5FSM-20-20-20</b>			
1-1/2	1-1/2	1-1/2			<b>B5FSM-24-24-24</b>			

## BP5M

### BSP

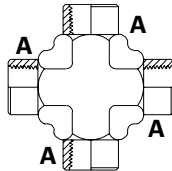


BSPTM x BSPPM x BSPTM Tee

A BSP	B BSP	C BSP	Part Number					
1/4	1/4	1/4	<b>BP5M-04-04-04</b>	¥				
3/8	3/8	3/8	<b>BP5M-06-06-06</b>	¥				
1/2	1/2	1/2	<b>BP5M-08-08-08</b>					
3/4	3/4	3/4	<b>BP5M-12-12-12</b>	¥				
1	1	1	<b>BP5M-16-16-16</b>	¥				

## BXF

### BSPT



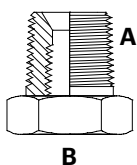
BSPTF Cross

A BSPT		Part Number						
1/4		<b>BXF-04</b>						
3/8		<b>BXF-06</b>						
1/2		<b>BXF-08</b>	¥					
3/4		<b>BXF-12</b>	¥					
1		<b>BXF-16</b>	¥					

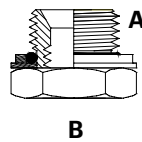
## B1R

## P1R

# BSP



BSPT Reducing Bush

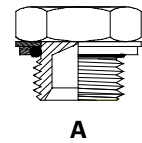
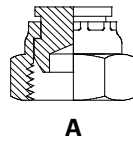
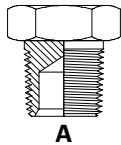


BSPP Reducing Bush

A BSP	B BSP	Part Number	Part Number			
1/4	1/8	<b>B1R-04-02</b>	<b>P1R-04-02</b>			
3/8	1/8	<b>B1R-06-02</b>				
3/8	1/4	<b>B1R-06-04</b>	<b>P1R-06-04</b>			
1/2	1/8	<b>B1R-08-02</b>				
1/2	1/4	<b>B1R-08-04</b>	<b>P1R-08-04</b>			
1/2	3/8	<b>B1R-08-06</b>	<b>P1R-08-06</b>			
3/4	1/4	<b>B1R-12-04</b>	<b>P1R-12-04</b>	¥		
3/4	3/8	<b>B1R-12-06</b>	<b>P1R-12-06</b>			
3/4	1/2	<b>B1R-12-08</b>	<b>P1R-12-08</b>			
1	1/8	<b>B1R-16-02</b>				
1	1/4	<b>B1R-16-04</b>				
1	3/8	<b>B1R-16-06</b>				
1	1/2	<b>B1R-16-08</b>	<b>P1R-16-08</b>			
1	3/4	<b>B1R-16-12</b>	<b>P1R-16-12</b>			
1-1/4	1/2	<b>B1R-20-08</b>				
1-1/4	3/4	<b>B1R-20-12</b>	<b>P1R-20-12</b>			
1-1/4	1	<b>B1R-20-16</b>	<b>P1R-20-16</b>			
1-1/2	3/4	<b>B1R-24-12</b>				
1-1/2	1	<b>B1R-24-16</b>	<b>P1R-24-16</b>			
1-1/2	1-1/4	<b>B1R-24-20</b>	<b>P1R-24-20</b>			
2	1	<b>B1R-32-16</b>				
2	1-1/4	<b>B1R-32-20</b>	<b>P1R-32-20</b>	¥		
2	1-1/2	<b>B1R-32-24</b>				

	<b>BP</b>	<b>BC</b>	<b>PP</b>
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# BSP



BSPT Plug

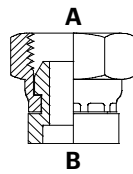
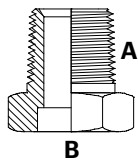
BSPP Cap

BSPP Plug

A BSP	Part Number	Part Number	Part Number
1/8	<b>BP-02</b>	<b>BC-02</b>	<b>PP-02</b>
1/4	<b>BP-04</b>	<b>BC-04</b>	<b>PP-04</b>
3/8	<b>BP-06</b>	<b>BC-06</b>	<b>PP-06</b>
1/2	<b>BP-08</b>	<b>BC-08</b>	<b>PP-08</b>
5/8		<b>BC-10</b>	
3/4	<b>BP-12</b>	<b>BC-12</b>	<b>PP-12</b>
1	<b>BP-16</b>	<b>BC-16</b>	<b>PP-16</b>
1-1/4	<b>BP-20</b>	<b>BC-20</b>	<b>PP-20</b>
1-1/2	<b>BP-24</b>	<b>BC-24</b>	<b>PP-24</b>
2	<b>BP-32</b>	<b>BC-32</b>	<b>PP-32</b>

	<b>B25M</b>	<b>B25FS</b>	
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# BSP X TUBE



BSPT Male Tube Weld

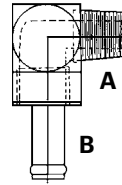
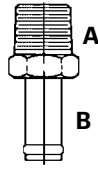
BSPP Female Tube Weld

A BSP	B TUBE	Part Number		Part Number			
1/4	1/4	<b>B25M-04-04</b>	¥	<b>B25FS-04-04</b>			
1/4	3/8	<b>B25M-04-06</b>	¥	<b>B25FS-04-06</b>	¥		
3/8	3/8	<b>B25M-06-06</b>		<b>B25FS-06-06</b>			
3/8	1/2	<b>B25M-06-08</b>	¥				
1/2	1/2	<b>B25M-08-08</b>		<b>B25FS-08-08</b>			
1/2	5/8	<b>B25M-08-10</b>	¥				
1/2	3/4	<b>B25M-08-12</b>					
3/4	3/4	<b>B25M-12-12</b>		<b>B25FS-12-12</b>			
3/4	1	<b>B25M-12-16</b>	¥				
1	1	<b>B25M-16-16</b>		<b>B25FS-16-16</b>			
1	1-1/4	<b>B25M-16-20</b>	¥				
1-1/4	1-1/4	<b>B25M-20-20</b>	¥	<b>B25FS-20-20</b>	¥		

## BH1M

## BH9M

# BSPT X TAIL



BSPTM x HOSETAIL Adaptor

BSPTM x HOSETAIL 90° Elbow

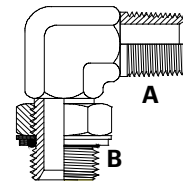
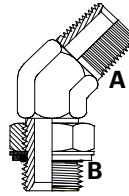
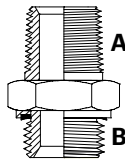
A BSPT	B TAIL	Part Number		Part Number			
1/2	1/2	<b>BH1M-08-08</b>					
1/2	3/4	<b>BH1M-08-12</b>		<b>BH9M-08-12</b>			
3/4	3/4	<b>BH1M-12-12</b>		<b>BH9M-12-12</b>			
3/4	1	<b>BH1M-12-16</b>		<b>BH9M-12-16</b>			
3/4	1-1/4	<b>BH1M-12-20</b>	¥	<b>BH9M-12-20</b>	¥		
1	3/4	<b>BH1M-16-12</b>		<b>BH9M-16-12</b>	¥		
1	1	<b>BH1M-16-16</b>		<b>BH9M-16-16</b>			
1	1-1/4	<b>BH1M-16-20</b>		<b>BH9M-16-20</b>			
1	1-1/2	<b>BH1M-16-24</b>		<b>BH9M-16-24</b>	¥		
1-1/4	1	<b>BH1M-20-16</b>		<b>BH9M-20-16</b>	¥		
1-1/4	1-1/4	<b>BH1M-20-20</b>		<b>BH9M-20-20</b>			
1-1/4	1-1/2	<b>BH1M-20-24</b>		<b>BH9M-20-24</b>			
1-1/4	2			<b>BH9M-20-32</b>			
1-1/2	1			<b>BH9M-24-16</b>			
1-1/2	1-1/4	<b>BH1M-24-20</b>		<b>BH9M-24-20</b>			
1-1/2	1-1/2	<b>BH1M-24-24</b>		<b>BH9M-24-24</b>			
1-1/2	2	<b>BH1M-24-32</b>		<b>BH9M-24-32</b>	¥		
2	2	<b>BH1M-32-32</b>		<b>BH9M-32-32</b>	¥		
2-1/2	2	<b>BH1M-40-32</b>	¥				
2-1/2	2-1/2	<b>BH1M-40-40</b>	¥	<b>BH9M-40-40</b>	¥		
2-1/2	3	<b>BH1M-40-48</b>	¥	<b>BH9M-40-48</b>	¥		

**BP1M**

**BP4M**

**BP9M**

**BSPT  
X  
BSPP**



BSPTM x BSPPM Nipple

BSPTM x BSPPM 45° Elbow

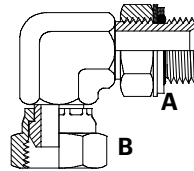
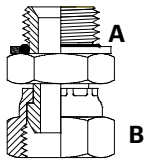
BSPTM x BSPPM 90° Elbow

A BSPT	B BSPP	Part Number	Part Number	Part Number
1/4	1/8	<b>BP1M-04-02</b>		
1/4	1/4	<b>BP1M-04-04</b>	<b>BP4M-04-04</b>	<b>BP9M-04-04</b>
1/4	3/8	<b>BP1M-04-06</b>		<b>BP9M-04-06</b>
1/4	1/2	<b>BP1M-04-08</b>		
3/8	1/4	<b>BP1M-06-04</b>		<b>BP9M-06-04</b>
3/8	3/8	<b>BP1M-06-06</b>	<b>BP4M-06-06</b>	<b>BP9M-06-06</b>
3/8	1/2	<b>BP1M-06-08</b>		<b>BP9M-06-08</b>
3/8	3/4	<b>BP1M-06-12</b>		
1/2	1/4	<b>BP1M-08-04</b>		
1/2	3/8	<b>BP1M-08-06</b>		<b>BP9M-08-06</b>
1/2	1/2	<b>BP1M-08-08</b>	<b>BP4M-08-08</b>	<b>BP9M-08-08</b>
1/2	3/4	<b>BP1M-08-12</b>		
1/2	1	<b>BP1M-08-16</b>		
5/8	3/4	<b>BP1M-10-12</b>		
3/4	1/2	<b>BP1M-12-08</b>		<b>BP9M-12-08</b>
3/4	3/4	<b>BP1M-12-12</b>	<b>BP4M-12-12</b>	<b>BP9M-12-12</b>
3/4	1	<b>BP1M-12-16</b>		<b>BP9M-12-16</b>
3/4	1-1/4	<b>BP1M-12-20</b>		
1	1/2	<b>BP1M-16-08</b>		
1	3/4	<b>BP1M-16-12</b>		<b>BP9M-16-12</b>
1	1	<b>BP1M-16-16</b>	<b>BP4M-16-16</b>	<b>BP9M-16-16</b>
1	1-1/4	<b>BP1M-16-20</b>		
1	1-1/2	<b>BP1M-16-24</b>		
1-1/4	3/4	<b>BP1M-20-12</b>		
1-1/4	1	<b>BP1M-20-16</b>		
1-1/4	1-1/4	<b>BP1M-20-20</b>		<b>BP9M-20-20</b>
1-1/4	1-1/2	<b>BP1M-20-24</b>		
1-1/2	1	<b>BP1M-24-16</b>		
1-1/2	1-1/4	<b>BP1M-24-20</b>	¥	
1-1/2	1-1/2	<b>BP1M-24-24</b>	¥	
2	1-1/2	<b>BP1M-32-24</b>		
2	2	<b>BP1M-32-32</b>	¥	

**P1MFS**

**P9MFS**

**BSPP**



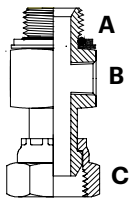
BSPPM x BSPPFS Nipple

BSPPM x BSPPFS 90° Elbow

A BSPP	B BSPP	Part Number	Part Number
1/4	1/4	<b>P1MFS-04-04</b>	<b>P9MFS-04-04</b>
1/4	3/8	<b>P1MFS-04-06</b>	
3/8	3/8	<b>P1MFS-06-06</b>	<b>P9MFS-06-06</b>
3/8	1/2	<b>P1MFS-06-08</b>	
1/2	1/2	<b>P1MFS-08-08</b>	<b>P9MFS-08-08</b>
1/2	3/4	<b>P1MFS-08-12</b>	
1/2	1	<b>P1MFS-08-16</b>	
1/2	1-1/4	<b>P1MFS-08-20</b>	
3/4	3/4	<b>P1MFS-12-12</b>	<b>P9MFS-12-12</b>
3/4	1	<b>P1MFS-12-16</b>	
1	1/2	<b>P1MFS-16-08</b>	
1	3/4	<b>P1MFS-16-12</b>	
1	1	<b>P1MFS-16-16</b>	<b>P9MFS-16-16</b>
1	1-1/4	<b>P1MFS-16-20</b>	
1-1/4	1	<b>P1MFS-20-16</b>	
1-1/4	1-1/4	<b>P1MFS-20-20</b>	¥
1-1/2	1-1/2	<b>P1MFS-24-24</b>	

**P1MFS**

**BSPP  
X  
BSPT  
X  
BSPP**



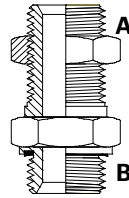
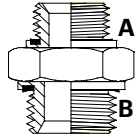
BSPPM x BSPTF x BSPPFS  
Test Point Adaptor

A BSPP	B BSPT	C BSPP	Part Number
1/4	1/8	1/4	<b>P1MFS-04-02-04</b>
3/8	1/8	3/8	<b>P1MFS-06-02-06</b>
1/2	1/8	1/2	<b>P1MFS-08-02-08</b>
3/4	1/8	3/4	<b>P1MFS-12-02-12</b>
1	1/8	1	<b>P1MFS-16-02-16</b>

## P1M

## P10M

# BSPP



BSPPM x BSPPM Nipple

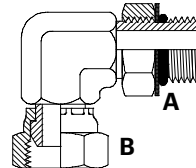
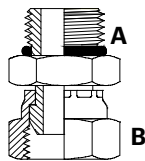
BSPPMBH x BSPPM

A BSPP	B BSPP	Part Number	Part Number			
1/8	1/8	<b>P1M-02-02</b>	<b>P10M-02-02</b>	¥		
1/4	1/4	<b>P1M-04-04</b>	<b>P10M-04-04</b>			
3/8	1/4	<b>P1M-06-04</b>				
3/8	3/8	<b>P1M-06-06</b>	<b>P10M-06-06</b>			
1/2	1/4	<b>P1M-08-04</b>				
1/2	3/8	<b>P1M-08-06</b>				
1/2	1/2	<b>P1M-08-08</b>	<b>P10M-08-08</b>			
3/4	3/8	<b>P1M-12-06</b>				
3/4	1/2	<b>P1M-12-08</b>				
3/4	3/4	<b>P1M-12-12</b>	<b>P10M-12-12</b>			
1	1/2	<b>P1M-16-08</b>				
1	3/4	<b>P1M-16-12</b>				
1	1	<b>P1M-16-16</b>	<b>P10M-16-16</b>			
1-1/4	3/4	<b>P1M-20-12</b>				
1-1/4	1	<b>P1M-20-16</b>				
1-1/4	1-1/4	<b>P1M-20-20</b>	<b>P10M-20-20</b>			
1-1/2	1	<b>P1M-24-16</b>				
1-1/2	1-1/4	<b>P1M-24-20</b>				
1-1/2	1-1/2	<b>P1M-24-24</b>	<b>P10M-24-24</b>			
2	1	<b>P1M-32-16</b>				
2	1-1/2	<b>P1M-32-24</b>				
2	2	<b>P1M-32-32</b>	<b>P10M-32-32</b>			

## UB1MFS

## UB9MFS

# UNO X BSPP



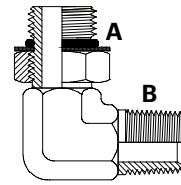
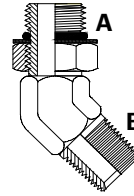
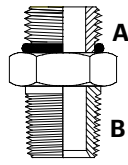
UNOM x BSPPFS Nipple

UNOM x BSPPFS 90° Elbow

A UNO	B BSPP	Part Number	Part Number			
9/16	1/4	<b>UB1MFS-09-04</b>	<b>UB9MFS-09-04</b>	¥	¥	
9/16	3/8	<b>UB1MFS-09-06</b>	<b>UB9MFS-09-06</b>	¥		
3/4	3/8	<b>UB1MFS-12-06</b>	<b>UB9MFS-12-06</b>	¥		
3/4	1/2	<b>UB1MFS-12-08</b>	<b>UB9MFS-12-08</b>		¥	
7/8	1/2	<b>UB1MFS-14-08</b>	<b>UB9MFS-14-08</b>			
1-1/16	3/4	<b>UB1MFS-17-12</b>	<b>UB9MFS-17-12</b>	¥	¥	
1-5/16	1	<b>UB1MFS-21-16</b>	<b>UB9MFS-21-16</b>		¥	

	<b>BU1M</b>	<b>BU4M</b>	<b>BU9M</b>
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**UNO  
X  
BSPT**



UNOM x BSPTM Nipple

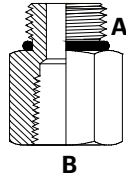
UNOM x BSPTM 45° Elbow

UNOM x BSPTM 90° Elbow

A UNO	B BSPT	Part Number	Part Number	Part Number
7/16	1/4	<b>BU1M-07-04</b>		<b>BU9M-07-04</b> ¥
9/16	1/4	<b>BU1M-09-04</b>	<b>BU4M-09-04</b> ¥	<b>BU9M-09-04</b>
9/16	3/8	<b>BU1M-09-06</b>		<b>BU9M-09-06</b>
9/16	1/2	<b>BU1M-09-08</b>		
3/4	1/4	<b>BU1M-12-04</b>		<b>BU9M-12-04</b>
3/4	3/8	<b>BU1M-12-06</b>	<b>BU4M-12-06</b> ¥	<b>BU9M-12-06</b>
3/4	1/2	<b>BU1M-12-08</b>	<b>BU4M-12-08</b>	<b>BU9M-12-08</b>
3/4	5/8	<b>BU1M-12-10</b>		
3/4	3/4	<b>BU1M-12-12</b>		
7/8	1/4	<b>BU1M-14-04</b>		
7/8	3/8	<b>BU1M-14-06</b>		<b>BU9M-14-06</b> ¥
7/8	1/2	<b>BU1M-14-08</b>	<b>BU4M-14-08</b> ¥	<b>BU9M-14-08</b>
7/8	5/8	<b>BU1M-14-10</b>		
7/8	3/4	<b>BU1M-14-12</b>		<b>BU9M-14-12</b> ¥
1-1/16	1/2	<b>BU1M-17-08</b>		<b>BU9M-17-08</b>
1-1/16	3/4	<b>BU1M-17-12</b>	<b>BU4M-17-12</b> ¥	<b>BU9M-17-12</b>
1-1/16	1	<b>BU1M-17-16</b>		<b>BU9M-17-16</b> ¥
1-5/16	3/4	<b>BU1M-21-12</b>		<b>BU9M-21-12</b> ¥
1-5/16	1	<b>BU1M-21-16</b>	<b>BU4M-21-16</b> ¥	<b>BU9M-21-16</b>
1-5/16	1-1/4	<b>BU1M-21-20</b> ¥		
1-5/8	1	<b>BU1M-26-16</b> ¥		
1-5/8	1-1/4	<b>BU1M-26-20</b>		
1-5/8	1-1/2	<b>BU1M-26-24</b>		
1-7/8	1-1/2	<b>BU1M-30-24</b> ¥		

## UB1MF

**UNO  
X  
BSPT**

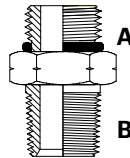


UNOM x BSPTF Adaptor

A UNO	B BSPT	Part Number					
9/16	1/4	<b>UB1MF-09-04</b>	¥				
3/4	1/4	<b>UB1MF-12-04</b>					
3/4	3/8	<b>UB1MF-12-06</b>					
3/4	1/2	<b>UB1MF-12-08</b>					
7/8	1/4	<b>UB1MF-14-04</b>	¥				
7/8	3/8	<b>UB1MF-14-06</b>					
7/8	1/2	<b>UB1MF-14-08</b>					
7/8	3/4	<b>UB1MF-14-12</b>					
1-1/16	1/2	<b>UB1MF-17-08</b>					
1-1/16	3/4	<b>UB1MF-17-12</b>	¥				
1-5/16	1	<b>UB1MF-21-16</b>	¥				

## NU1M

**UNO  
X  
NPT**

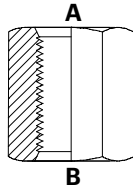


UNOM x NPTM Adaptor

A UNO	B NPT	Part Number					
7/16	1/8	<b>NU1M-07-02</b>					
7/16	1/4	<b>NU1M-07-04</b>	¥				
9/16	3/8	<b>NU1M-09-06</b>					
3/4	1/4	<b>NU1M-12-04</b>	¥				
3/4	3/8	<b>NU1M-12-06</b>					
3/4	1/2	<b>NU1M-12-08</b>	¥				
1-1/16	3/4	<b>NU1M-17-12</b>					

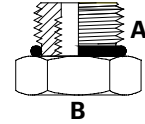
	U1F		U1R
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UNO



*UNOF x UNOF Socket*

UNO

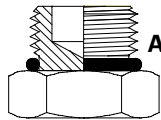


*UNOM x UNOF Reducer*

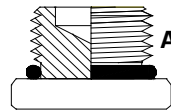
A UNO	B UNO	Part Number		A UNO	B UNO	Part Number	
7/16	7/16	<b>U1F-07-07</b>		9/16	7/16	<b>U1R-09-07</b>	¥
1/2	1/2	<b>U1F-08-08</b>	¥	3/4	7/16	<b>U1R-12-07</b>	¥
9/16	9/16	<b>U1F-09-09</b>		3/4	9/16	<b>U1R-12-09</b>	¥
3/4	3/4	<b>U1F-12-12</b>		7/8	3/4	<b>U1R-14-12</b>	¥
7/8	7/8	<b>U1F-14-14</b>		1-1/16	9/16	<b>U1R-17-09</b>	
1-1/16	1-1/16	<b>U1F-17-17</b>		1-1/16	3/4	<b>U1R-17-12</b>	¥
1-5/16	1-5/16	<b>U1F-21-21</b>		1-1/16	7/8	<b>U1R-17-14</b>	¥
1-5/8	1-5/8	<b>U1F-26-26</b>		1-5/16	7/8	<b>U1R-21-14</b>	¥
				1-5/16	1-1/16	<b>U1R-21-17</b>	
				1-5/8	1-1/16	<b>U1R-26-17</b>	¥
				1-5/8	1-5/16	<b>U1R-26-21</b>	¥
				1-7/8	1-5/8	<b>U1R-30-26</b>	¥

	UP	UP-CS	
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UNO



*UNO Plug*

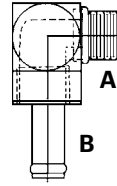
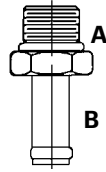


*UNO Plug Countersunk*

A UNO	Part Number	Part Number	
5/16	<b>UP-05</b>	<b>UP-CS-05</b>	
3/8	<b>UP-06</b>	<b>UP-CS-06</b>	
7/16	<b>UP-07</b>	<b>UP-CS-07</b>	
1/2	<b>UP-08</b>	<b>UP-CS-08</b>	
9/16	<b>UP-09</b>	<b>UP-CS-09</b>	
3/4	<b>UP-12</b>	<b>UP-CS-12</b>	
7/8	<b>UP-14</b>	<b>UP-CS-14</b>	
1-1/16	<b>UP-17</b>	<b>UP-CS-17</b>	
1-3/16	<b>UP-19</b>	<b>UP-CS-19</b>	
1-5/16	<b>UP-21</b>	<b>UP-CS-21</b>	
1-5/8	<b>UP-26</b>		
1-7/8	<b>UP-30</b>		¥
2-1/2	<b>UP-40</b>		

	<b>UH1M</b>	<b>UH9M</b>	
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# UNO X TAIL



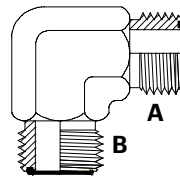
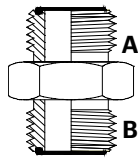
UNOM x HOSETAIL Adaptor

UNOM x HOSETAIL 90° Elbow

A UNO	B TAIL	Part Number		Part Number			
3/4	3/4			<b>UH9M-12-12</b>	¥		
7/8	3/4	<b>UH1M-14-12</b>	¥				
1-1/16	3/4	<b>UH1M-17-12</b>	¥	<b>UH9M-17-12</b>	¥		
1-1/16	1	<b>UH1M-17-16</b>	¥	<b>UH9M-17-16</b>	¥		
1-1/16	1-1/4	<b>UH1M-17-20</b>	¥	<b>UH9M-17-20</b>	¥		
1-5/16	3/4	<b>UH1M-21-12</b>	¥				
1-5/16	1	<b>UH1M-21-16</b>		<b>UH9M-21-16</b>	¥		
1-5/16	1-1/4	<b>UH1M-21-20</b>	¥	<b>UH9M-21-20</b>	¥		
1-5/16	1-1/2	<b>UH1M-21-24</b>	¥	<b>UH9M-21-24</b>	¥		
1-5/8	1-1/4	<b>UH1M-26-20</b>	¥	<b>UH9M-26-20</b>	¥		
1-5/8	1-1/2	<b>UH1M-26-24</b>	¥	<b>UH9M-26-24</b>	¥		
1-7/8	1-1/2	<b>UH1M-30-24</b>	¥	<b>UH9M-30-24</b>	¥		
1-7/8	2	<b>UH1M-30-32</b>	¥				

	<b>O1M</b>	<b>O9M</b>	
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# ORFS



ORFSM x ORFSM Adaptor

ORFSM x ORFSM 90° Elbow

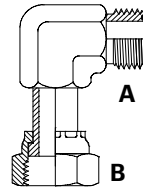
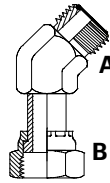
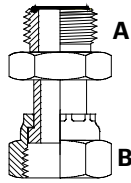
A ORFS	B ORFS	Part Number		Part Number			
9/16	9/16	<b>O1M-09-09</b>		<b>O9M-09-09</b>	¥		
11/16	9/16	<b>O1M-11-09</b>					
11/16	11/16	<b>O1M-11-11</b>		<b>O9M-11-11</b>	¥		
13/16	11/16	<b>O1M-13-11</b>					
13/16	13/16	<b>O1M-13-13</b>		<b>O9M-13-13</b>	¥		
1	13/16	<b>O1M-16-13</b>					
1	1	<b>O1M-16-16</b>		<b>O9M-16-16</b>			
1-3/16	1	<b>O1M-19-16</b>					
1-3/16	1-3/16	<b>O1M-19-19</b>		<b>O9M-19-19</b>	¥		
1-7/16	1-3/16	<b>O1M-23-19</b>	¥				
1-7/16	1-7/16	<b>O1M-23-23</b>		<b>O9M-23-23</b>	¥		
1-11/16	1-11/16	<b>O1M-27-27</b>		<b>O9M-27-27</b>			
2	2	<b>O1M-32-32</b>	¥				

**O1MFS**

**O4MFS**

**O9MFS**

**ORFS**



ORFSM x ORFSFS Adaptor

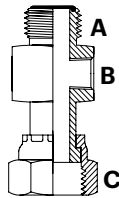
ORFSM x ORFSFS 45° Elbow

ORFSM x ORFSFS 90° Elbow

A ORFS	B ORFS	Part Number		Part Number	Part Number
9/16	9/16	<b>O1MFS-09-09</b>	¥	<b>O4MFS-09-09</b>	<b>O9MFS-09-09</b>
11/16	11/16	<b>O1MFS-11-11</b>		<b>O4MFS-11-11</b>	<b>O9MFS-11-11</b>
13/16	13/16	<b>O1MFS-13-13</b>		<b>O4MFS-13-13</b>	<b>O9MFS-13-13</b>
1	1	<b>O1MFS-16-16</b>		<b>O4MFS-16-16</b>	<b>O9MFS-16-16</b>
1-3/16	1-3/16	<b>O1MFS-19-19</b>		<b>O4MFS-19-19</b>	<b>O9MFS-19-19</b>
1-7/16	1-7/16	<b>O1MFS-23-23</b>		<b>O4MFS-23-23</b>	<b>O9MFS-23-23</b>
1-11/16	1-11/16	<b>O1MFS-27-27</b>		<b>O4MFS-27-27</b>	<b>O9MFS-27-27</b>

**O1MFS**

**ORFS  
X  
BSP  
X  
ORFS**

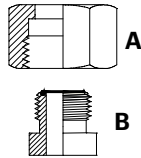


ORFSM x BSPT x ORFSFS Test Point Adaptor

A ORFS	B BSPT	C ORFS	Part Number
9/16	1/8	9/16	<b>O1MFS-09-02-09</b>
11/16	1/8	11/16	<b>O1MFS-11-02-11</b>
13/16	1/8	13/16	<b>O1MFS-13-02-13</b>
1	1/8	1	<b>O1MFS-16-02-16</b>
1-3/16	1/8	1-3/16	<b>O1MFS-19-02-19</b>
1-7/16	1/8	1-7/16	<b>O1MFS-23-02-23</b>

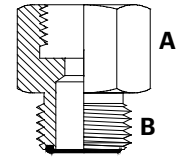
	<b>OTR</b>		<b>OTE</b>
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## ORFS



ORFSFS x ORFSM Reducer

## ORFS

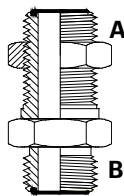


ORFSF x ORFSM Expander

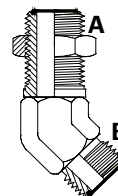
A ORFS	B ORFS	Part Number		A ORFS	B ORFS	Part Number	
11/16	9/16	<b>OTR-11-09</b>		9/16	11/16	<b>OTE-09-11</b>	
13/16	9/16	<b>OTR-13-09</b>		11/16	13/16	<b>OTE-11-13</b>	
13/16	11/16	<b>OTR-13-11</b>		11/16	1	<b>OTE-11-16</b>	¥
1	11/16	<b>OTR-16-11</b>	¥	13/16	1	<b>OTE-13-16</b>	
1	13/16	<b>OTR-16-13</b>		13/16	1-3/16	<b>OTE-13-19</b>	
1-3/16	11/16	<b>OTR-19-11</b>		1	1-3/16	<b>OTE-16-19</b>	
1-3/16	13/16	<b>OTR-19-13</b>		1	1-7/16	<b>OTE-16-23</b>	¥
1-3/16	1	<b>OTR-19-16</b>		1-3/16	1-7/16	<b>OTE-19-23</b>	
1-7/16	13/16	<b>OTR-23-13</b>	¥	1-3/16	1-11/16	<b>OTE-19-27</b>	¥
1-7/16	1	<b>OTR-23-16</b>	¥	1-7/16	1-11/16	<b>OTE-23-27</b>	¥
1-7/16	1-3/16	<b>OTR-23-19</b>		1-11/16	2	<b>OTE-27-32</b>	¥
1-11/16	1-3/16	<b>OTR-27-19</b>	¥				
1-11/16	1-7/16	<b>OTR-27-23</b>					
2	1-7/16	<b>OTR-32-23</b>	¥				
2	1-11/16	<b>OTR-32-27</b>	¥				

	<b>O10M</b>	<b>O40M</b>	<b>O90M</b>
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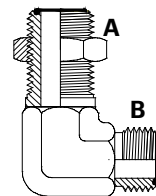
## ORFS



ORFSMBH x ORFSM



ORFSBH x ORFSM 45° Elbow

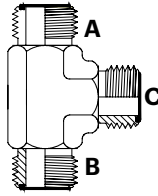


ORFSBH x ORFSM 90° Elbow

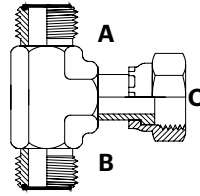
A ORFS	B ORFS	Part Number		Part Number		Part Number	
9/16	9/16	<b>O10M-09-09</b>	¥	<b>O40M-09-09</b>	¥	<b>O90M-09-09</b>	
11/16	11/16	<b>O10M-11-11</b>		<b>O40M-11-11</b>	¥	<b>O90M-11-11</b>	
13/16	13/16	<b>O10M-13-13</b>		<b>O40M-13-13</b>	¥	<b>O90M-13-13</b>	
1	1	<b>O10M-16-16</b>		<b>O40M-16-16</b>		<b>O90M-16-16</b>	
1-3/16	1-3/16	<b>O10M-19-19</b>		<b>O40M-19-19</b>		<b>O90M-19-19</b>	
1-7/16	1-7/16	<b>O10M-23-23</b>	¥	<b>O40M-23-23</b>		<b>O90M-23-23</b>	
1-11/16	1-11/16	<b>O10M-27-27</b>	¥	<b>O40M-27-27</b>			
2	2	<b>O10M-32-32</b>	¥				

	<b>O5M</b>	<b>O5MFS</b>	<b>O5FSM</b>
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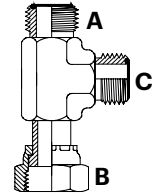
# ORFS



ORFSM x ORFSM x ORFSM  
Equal Tee



ORFSM x ORFSM x ORFSFS  
Branch Tee

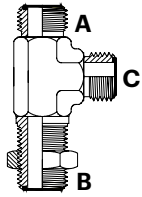


ORFSM x ORFSFS x ORFSM  
Running Tee

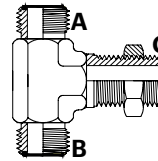
A ORFS	B ORFS	C ORFS	Part Number		Part Number		Part Number
9/16	9/16	9/16	<b>O5M-09-09-09</b>		<b>O5MFS-09-09-09</b>		<b>O5FSM-09-09-09</b>
11/16	11/16	11/16	<b>O5M-11-11-11</b>		<b>O5MFS-11-11-11</b>		<b>O5FSM-11-11-11</b>
13/16	13/16	13/16	<b>O5M-13-13-13</b>	¥	<b>O5MFS-13-13-13</b>		<b>O5FSM-13-13-13</b>
1	1	1	<b>O5M-16-16-16</b>		<b>O5MFS-16-16-16</b>		<b>O5FSM-16-16-16</b>
1-3/16	1-3/16	1-3/16	<b>O5M-19-19-19</b>		<b>O5MFS-19-19-19</b>		<b>O5FSM-19-19-19</b>
1-7/16	1-7/16	1-7/16	<b>O5M-23-23-23</b>		<b>O5MFS-23-23-23</b>		<b>O5FSM-23-23-23</b>
1-11/16	1-11/16	1-11/16			<b>O5MFS-27-27-27</b>		<b>O5FSM-27-27-27</b>
2	2	2					<b>O5FSM-32-32-32</b>

	<b>O50M</b>	<b>O50M</b>	
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# ORFS



ORFSM x ORFSMBH  
x ORFSM Tee

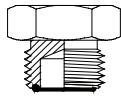


ORFSM x ORFSM  
x ORFSMBH Tee

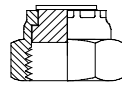
A ORFS	B ORFS	C ORFS	Part Number		Part Number		
11/16	11/16	11/16	<b>O50M-11-11-11</b>	¥	<b>O50M-11-11-11D</b>	¥	
13/16	13/16	13/16	<b>O50M-13-13-13</b>	¥	<b>O50M-13-13-13D</b>	¥	
1	1	1	<b>O50M-16-16-16</b>	¥	<b>O50M-16-16-16D</b>	¥	
1-3/16	1-3/16	1-3/16	<b>O50M-19-19-19</b>	¥	<b>O50M-19-19-19D</b>	¥	
1-7/16	1-7/16	1-7/16	<b>O50M-23-23-23</b>	¥	<b>O50M-23-23-23D</b>	¥	

	<b>OP</b>	<b>OCN</b>	
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# ORFS



A



A

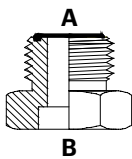
ORFS Plug

ORFS Cap

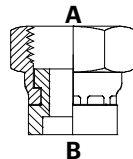
A ORFS	Part Number	Part Number
9/16	<b>OP-09</b>	<b>OCN-09</b>
11/16	<b>OP-11</b>	<b>OCN-11</b>
13/16	<b>OP-13</b>	<b>OCN-13</b>
1	<b>OP-16</b>	<b>OCN-16</b>
1-3/16	<b>OP-19</b>	<b>OCN-19</b>
1-7/16	<b>OP-23</b>	<b>OCN-23</b>
1-11/16	<b>OP-27</b>	<b>OCN-27</b>
2	<b>OP-32</b>	<b>OCN-32</b>

	<b>O25M</b>	<b>O25FS</b>	
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# ORFS X TUBE



ORFSM Tube Weld



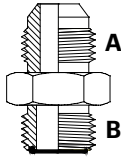
ORFSF Tube Weld

A ORFS	B TUBE	Part Number	Part Number
9/16	1/4	<b>O25M-09-04</b>	<b>O25FS-09-04</b>
9/16	3/8	<b>O25M-09-06</b> ¥	
11/16	3/8	<b>O25M-11-06</b>	<b>O25FS-11-06</b>
13/16	1/2	<b>O25M-13-08</b>	<b>O25FS-13-08</b>
1	5/8	<b>O25M-16-10</b>	<b>O25FS-16-10</b>
1-3/16	3/4	<b>O25M-19-12</b>	<b>O25FS-19-12</b>
1-3/16	1	<b>O25M-19-16</b>	
1-7/16	1	<b>O25M-23-16</b>	<b>O25FS-23-16</b>
1-7/16	1-1/4	<b>O25M-23-20</b>	<b>O25FS-23-20</b>
1-7/16	1-1/2		<b>O25FS-23-24</b>
1-11/16	1	<b>O25M-27-16</b>	
1-11/16	1-1/4	<b>O25M-27-20</b>	
1-11/16	1-1/2	<b>O25M-27-24</b>	
2	1-1/2	<b>O25M-32-24</b>	
2	2	<b>O25M-32-32</b>	

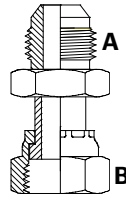
## OJ1M

## JO1MFS

### JIC X ORFS



JICM x ORFSM Nipple

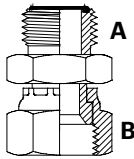


JICM x ORFSFS Adaptor

A JIC	B ORFS	Part Number		Part Number			
7/16	9/16	<b>OJ1M-07-09</b>		<b>JO1MFS-07-09</b>			
7/16	11/16	<b>OJ1M-07-11</b>		<b>JO1MFS-07-11</b>			
9/16	11/16	<b>OJ1M-09-11</b>		<b>JO1MFS-09-11</b>			
3/4	13/16	<b>OJ1M-12-13</b>		<b>JO1MFS-12-13</b>			
7/8	13/16	<b>OJ1M-14-13</b>	¥	<b>JO1MFS-14-13</b>			
7/8	1	<b>OJ1M-14-16</b>		<b>JO1MFS-14-16</b>			
1-1/16	1-3/16	<b>OJ1M-17-19</b>		<b>JO1MFS-17-19</b>			
1-5/16	1-7/16	<b>OJ1M-21-23</b>		<b>JO1MFS-21-23</b>			
1-5/8	1-11/16	<b>OJ1M-26-27</b>		<b>JO1MFS-26-27</b>	¥		

## OJ1MFS

### ORFS X JIC



ORFSM x JICFS Adaptor

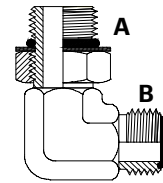
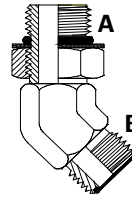
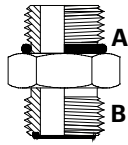
A ORFS	B JIC	Part Number					
9/16	7/16	<b>OJ1MFS-09-07</b>	¥				
11/16	9/16	<b>OJ1MFS-11-09</b>	¥				
13/16	3/4	<b>OJ1MFS-13-12</b>	¥				
1	7/8	<b>OJ1MFS-16-14</b>	¥				
1-3/16	1-1/16	<b>OJ1MFS-19-17</b>	¥				
1-7/16	1-5/16	<b>OJ1MFS-23-21</b>	¥				

**OU1M**

**OU4M**

**OU9M**

**UNO  
X  
ORFS**



UNOM x ORFSM Nipple

UNOM x ORFSM 45° Elbow

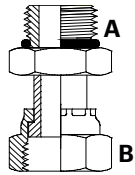
UNOM x ORFSM 90° Elbow

A UNO	B ORFS	Part Number	Part Number	Part Number
7/16	9/16	<b>OU1M-07-09</b>	<b>OU4M-07-09</b> ¥	<b>OU9M-07-09</b>
7/16	11/16	<b>OU1M-07-11</b>	<b>OU4M-07-11</b> ¥	<b>OU9M-07-11</b> ¥
9/16	9/16	<b>OU1M-09-09</b>	<b>OU4M-09-09</b>	<b>OU9M-09-09</b>
9/16	11/16	<b>OU1M-09-11</b>	<b>OU4M-09-11</b>	<b>OU9M-09-11</b>
9/16	13/16	<b>OU1M-09-13</b>	<b>OU4M-09-13</b> ¥	<b>OU9M-09-13</b>
3/4	9/16	<b>OU1M-12-09</b> ¥		<b>OU9M-12-09</b>
3/4	11/16	<b>OU1M-12-11</b>	<b>OU4M-12-11</b> ¥	<b>OU9M-12-11</b>
3/4	13/16	<b>OU1M-12-13</b>	<b>OU4M-12-13</b>	<b>OU9M-12-13</b>
3/4	1	<b>OU1M-12-16</b>	<b>OU4M-12-16</b>	<b>OU9M-12-16</b> ¥
3/4	1-3/16	<b>OU1M-12-19</b>		<b>OU9M-12-19</b>
7/8	13/16	<b>OU1M-14-13</b>	<b>OU4M-14-13</b>	<b>OU9M-14-13</b>
7/8	1	<b>OU1M-14-16</b>	<b>OU4M-14-16</b> ¥	<b>OU9M-14-16</b> ¥
7/8	1-3/16	<b>OU1M-14-19</b> ¥		<b>OU9M-14-19</b>
1-1/16	13/16	<b>OU1M-17-13</b>		<b>OU9M-17-13</b>
1-1/16	1	<b>OU1M-17-16</b>		<b>OU9M-17-16</b>
1-1/16	1-3/16	<b>OU1M-17-19</b>	<b>OU4M-17-19</b>	<b>OU9M-17-19</b>
1-1/16	1-7/16	<b>OU1M-17-23</b>	<b>OU4M-17-23</b> ¥	<b>OU9M-17-23</b> ¥
1-5/16	1-3/16	<b>OU1M-21-19</b>		<b>OU9M-21-19</b>
1-5/16	1-7/16	<b>OU1M-21-23</b>	<b>OU4M-21-23</b> ¥	<b>OU9M-21-23</b>
1-5/8	1-11/16	<b>OU1M-26-27</b> ¥	<b>OU4M-26-27</b> ¥	<b>OU9M-26-27</b>
1-7/8	2	<b>OU1M-30-32</b> ¥		<b>OU9M-30-32</b> ¥

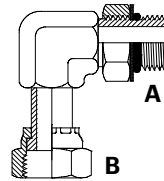
## UO1MFS

## UO9MFS

**UNO  
X  
ORFS**



UNOM x ORFSFS Adaptor



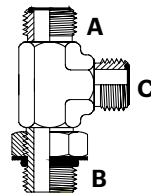
UNOM x ORFSFS 90° Elbow

A UNO	B ORFS	Part Number		Part Number	
7/16	9/16	<b>UO1MFS-07-09</b>	¥	<b>UO9MFS-07-09</b>	¥
9/16	11/16	<b>UO1MFS-09-11</b>	¥	<b>UO9MFS-09-11</b>	¥
3/4	13/16	<b>UO1MFS-12-13</b>	¥	<b>UO9MFS-12-13</b>	¥
7/8	13/16	<b>UO1MFS-14-13</b>	¥	<b>UO9MFS-14-13</b>	¥
7/8	1	<b>UO1MFS-14-16</b>	¥	<b>UO9MFS-14-16</b>	¥
1-1/16	1-3/16	<b>UO1MFS-17-19</b>	¥	<b>UO9MFS-17-19</b>	¥
1-5/16	1-7/16	<b>UO1MFS-21-23</b>	¥	<b>UO9MFS-21-23</b>	¥
1-5/8	1-11/16	<b>UO1MFS-26-27</b>	¥	<b>UO9MFS-26-27</b>	¥

## OU5M

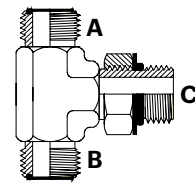
## UO5M

**UNO  
X  
ORFS**



ORFSM x UNOM x ORFSM  
Tee

**UNO  
X  
ORFS**



ORFSM x ORFSM x UNOM  
Tee

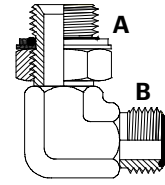
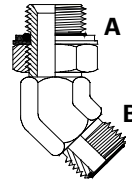
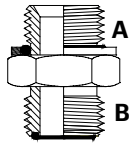
A ORFS	B UNO	C ORFS	Part Number		A ORFS	B ORFS	C UNO	Part Number	
9/16	7/16	9/16	<b>OU5M-09-07-09</b>	¥	11/16	11/16	9/16	<b>UO5M-11-11-09</b>	¥
11/16	9/16	11/16	<b>OU5M-11-09-11</b>	¥	13/16	13/16	3/4	<b>UO5M-13-13-12</b>	¥
13/16	3/4	13/16	<b>OU5M-13-12-13</b>	¥	1	1	7/8	<b>UO5M-16-16-14</b>	¥
1-3/16	1-1/16	1-3/16	<b>OU5M-19-17-19</b>	¥	1-3/16	1-3/16	1-1/16	<b>UO5M-19-19-17</b>	¥
1-7/16	1-5/16	1-7/16	<b>OU5M-23-21-23</b>	¥					

**OP1M**

**OP4M**

**OP9M**

**BSPP  
X  
ORFS**



*BSPPM x ORFSM Nipple*

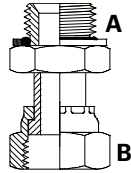
*BSPPM x ORFSM 45° Elbow*

*BSPPM x ORFSM 90° Elbow*

A BSPP	B ORFS	Part Number	Part Number		Part Number	
1/8	9/16	<b>OP1M-02-09</b>			<b>OP9M-02-09</b>	
1/4	9/16	<b>OP1M-04-09</b>			<b>OP9M-04-09</b>	
1/4	11/16	<b>OP1M-04-11</b>	<b>OP4M-04-11</b>	¥	<b>OP9M-04-11</b>	
1/4	13/16	<b>OP1M-04-13</b>				
3/8	9/16	<b>OP1M-06-09</b>			<b>OP9M-06-09</b>	
3/8	11/16	<b>OP1M-06-11</b>	<b>OP4M-06-11</b>	¥	<b>OP9M-06-11</b>	
3/8	13/16	<b>OP1M-06-13</b>	<b>OP4M-06-13</b>	¥	<b>OP9M-06-13</b>	
1/2	11/16	<b>OP1M-08-11</b>			<b>OP9M-08-11</b>	¥
1/2	13/16	<b>OP1M-08-13</b>	<b>OP4M-08-13</b>	¥	<b>OP9M-08-13</b>	
1/2	1	<b>OP1M-08-16</b>	<b>OP4M-08-16</b>	¥	<b>OP9M-08-16</b>	
1/2	1-3/16	<b>OP1M-08-19</b>			<b>OP9M-08-19</b>	¥
3/4	13/16	<b>OP1M-12-13</b>			<b>OP9M-12-13</b>	
3/4	1	<b>OP1M-12-16</b>			<b>OP9M-12-16</b>	¥
3/4	1-3/16	<b>OP1M-12-19</b>	<b>OP4M-12-19</b>	¥	<b>OP9M-12-19</b>	
3/4	1-7/16	<b>OP1M-12-23</b>				
1	1-3/16	<b>OP1M-16-19</b>			<b>OP9M-16-19</b>	¥
1	1-7/16	<b>OP1M-16-23</b>	<b>OP4M-16-23</b>	¥	<b>OP9M-16-23</b>	
1	1-11/16	<b>OP1M-16-27</b>			<b>OP9M-16-27</b>	¥
1-1/4	1-7/16	<b>OP1M-20-23</b>				
1-1/4	1-11/16	<b>OP1M-20-27</b>			<b>OP9M-20-27</b>	¥
1-1/2	1-11/16	<b>OP1M-24-27</b>				

## PO1MFS

### BSPP X ORFS

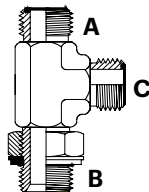


*BSPPM x ORFSFS Adaptor*

A BSPP	B ORFS	Part Number	
1/4	9/16	<b>PO1MFS-04-09</b>	
1/4	11/16	<b>PO1MFS-04-11</b>	
3/8	9/16	<b>PO1MFS-06-09</b>	
3/8	11/16	<b>PO1MFS-06-11</b>	
3/8	13/16	<b>PO1MFS-06-13</b>	
1/2	11/16	<b>PO1MFS-08-11</b>	
1/2	13/16	<b>PO1MFS-08-13</b>	
1/2	1	<b>PO1MFS-08-16</b>	
1/2	1-3/16	<b>PO1MFS-08-19</b>	
3/4	13/16	<b>PO1MFS-12-13</b>	¥
3/4	1	<b>PO1MFS-12-16</b>	
3/4	1-3/16	<b>PO1MFS-12-19</b>	
3/4	1-7/16	<b>PO1MFS-12-23</b>	
1	1-7/16	<b>PO1MFS-16-23</b>	
1-1/4	1-11/16	<b>PO1MFS-20-27</b>	¥

## OP5M

### ORFS X BSPP

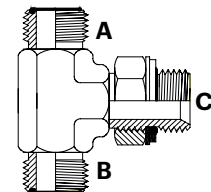


*ORFSM x BSPPM x ORFSM  
Tee*

A ORFS	B BSPP	C ORFS	Part Number	
9/16	1/4	9/16	<b>OP5M-09-04-09</b>	¥
11/16	3/8	11/16	<b>OP5M-11-06-11</b>	¥
13/16	1/2	13/16	<b>OP5M-13-08-13</b>	¥
1	1/2	1	<b>OP5M-16-08-16</b>	¥
1-3/16	3/4	1-3/16	<b>OP5M-19-12-19</b>	¥
1-7/16	1	1-7/16	<b>OP5M-23-16-23</b>	¥

## PO5M

### ORFS X BSPP



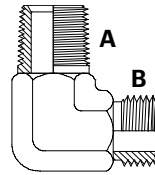
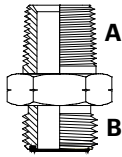
*ORFSM x ORFSM x BSPPM  
Tee*

A ORFS	B ORFS	C BSPP	Part Number	
11/16	11/16	3/8	<b>PO5M-11-11-06</b>	¥
13/16	13/16	1/2	<b>PO5M-13-13-08</b>	¥
1	1	1/2	<b>PO5M-16-16-08</b>	¥
1-3/16	1-3/16	3/4	<b>PO5M-19-19-12</b>	¥

## ON1M

## ON9M

# NPT X ORFS



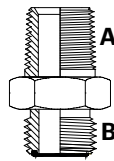
NPTM x ORFSM Adaptor

NPTM x ORFSM 90° Elbow

A NPT	B ORFS	Part Number		Part Number			
1/8	9/16	<b>ON1M-02-09</b>	¥				
1/4	9/16	<b>ON1M-04-09</b>	¥	<b>ON9M-04-09</b>	¥		
3/8	11/16	<b>ON1M-06-11</b>	¥	<b>ON9M-06-11</b>	¥		
1/2	13/16	<b>ON1M-08-13</b>	¥	<b>ON9M-08-13</b>	¥		
1/2	1	<b>ON1M-08-16</b>	¥	<b>ON9M-08-16</b>	¥		
3/4	1-3/16	<b>ON1M-12-19</b>	¥	<b>ON9M-12-19</b>	¥		
1	1-7/16	<b>ON1M-16-23</b>	¥	<b>ON9M-16-23</b>	¥		

## OB1M

# BSPT X ORFS

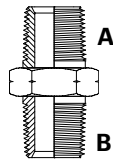


BSPTM x ORFSM Adaptor

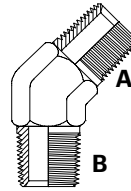
A BSPT	B ORFS	Part Number					
1/8	9/16	<b>OB1M-02-09</b>	¥				
1/4	9/16	<b>OB1M-04-09</b>					
1/4	11/16	<b>OB1M-04-11</b>					
3/8	9/16	<b>OB1M-06-09</b>					
3/8	11/16	<b>OB1M-06-11</b>					
3/8	13/16	<b>OB1M-06-13</b>					
1/2	11/16	<b>OB1M-08-11</b>					
1/2	13/16	<b>OB1M-08-13</b>					
1/2	1	<b>OB1M-08-16</b>					
1/2	1-3/16	<b>OB1M-08-19</b>	¥				
3/4	1-3/16	<b>OB1M-12-19</b>					
3/4	1-7/16	<b>OB1M-12-23</b>					
1	1-7/16	<b>OB1M-16-23</b>					
1-1/4	1-7/16	<b>OB1M-20-23</b>	¥				
1-1/2	1-7/16	<b>OB1M-24-23</b>	¥				

	<b>N1M</b>		<b>N4M</b>		<b>N9M</b>	
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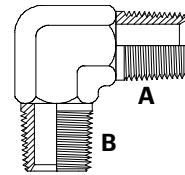
**NPT**



NPTM x NPTM Nipple



NPTM x NPTM 45° Elbow

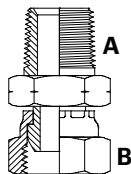


NPTM x NPTM 90° Elbow

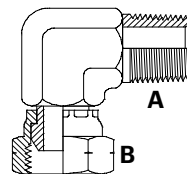
A NPT	B NPT	Part Number	Part Number	Part Number
1/8	1/8	<b>N1M-02-02</b>		<b>N9M-02-02</b>
1/4	1/8	<b>N1M-04-02</b>		<b>N9M-04-02</b> ¥
1/4	1/4	<b>N1M-04-04</b>	<b>N4M-04-04</b> ¥	<b>N9M-04-04</b>
3/8	1/4	<b>N1M-06-04</b>		<b>N9M-06-04</b> ¥
3/8	3/8	<b>N1M-06-06</b>	<b>N4M-06-06</b> ¥	<b>N9M-06-06</b> ¥
1/2	1/4	<b>N1M-08-04</b>		
1/2	3/8	<b>N1M-08-06</b>		<b>N9M-08-06</b> ¥
1/2	1/2	<b>N1M-08-08</b>	<b>N4M-08-08</b> ¥	<b>N9M-08-08</b> ¥
3/4	1/2	<b>N1M-12-08</b>		
3/4	3/4	<b>N1M-12-12</b>	<b>N4M-12-12</b> ¥	<b>N9M-12-12</b>
1	3/4	<b>N1M-16-12</b>		
1	1	<b>N1M-16-16</b>	<b>N4M-16-16</b> ¥	<b>N9M-16-16</b>
1-1/4	1-1/4	<b>N1M-20-20</b> ¥		<b>N9M-20-20</b>
1-1/2	1-1/2	<b>N1M-24-24</b>		<b>N9M-24-24</b> ¥
2	2	<b>N1M-32-32</b>		<b>N9M-32-32</b> ¥
2-1/2	2	<b>N1M-40-32</b>		

	<b>N1MFS</b>		<b>N9MFS</b>		<b>N1F</b>	
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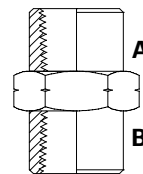
**NPT**



NPTM x NPTFS Adaptor



NPTM x NPTFS 90° Elbow

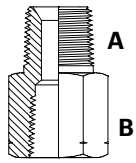


NPTF x NPTF Socket

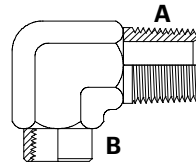
A NPT	B NPT	Part Number	Part Number	Part Number
1/8	1/8	<b>N1MFS-02-02</b>	<b>N9MFS-02-02</b>	<b>N1F-02-02</b>
1/8	1/4	<b>N1MFS-02-04</b>	<b>N9MFS-02-04</b> ¥	
1/4	1/4	<b>N1MFS-04-04</b>	<b>N9MFS-04-04</b> ¥	<b>N1F-04-04</b>
3/8	1/4			<b>N1F-06-04</b>
3/8	3/8	<b>N1MFS-06-06</b>	<b>N9MFS-06-06</b>	<b>N1F-06-06</b>
1/2	3/8			<b>N1F-08-06</b>
1/2	1/2	<b>N1MFS-08-08</b>	<b>N9MFS-08-08</b>	<b>N1F-08-08</b>
3/4	3/4	<b>N1MFS-12-12</b>	<b>N9MFS-12-12</b>	<b>N1F-12-12</b>
1	1	<b>N1MFS-16-16</b>	<b>N9MFS-16-16</b>	<b>N1F-16-16</b>
1-1/4	1-1/4	<b>N1MFS-20-20</b> ¥		<b>N1F-20-20</b>
1-1/2	1-1/2	<b>N1MFS-24-24</b> ¥		<b>N1F-24-24</b> ¥
2	2	<b>N1MFS-32-32</b> ¥		<b>N1F-32-32</b>

	N1MF	N9MF	N9F
--	------	------	-----

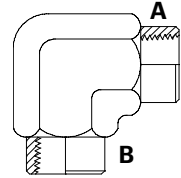
# NPT



NPTM x NPTF Nipple



NPTM x NPTF 45° Elbow

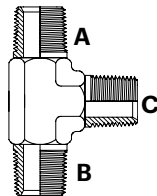


NPTF x NPTF 90° Elbow

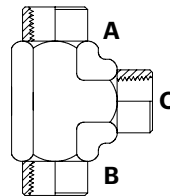
A NPT	B NPT	Part Number	Part Number	Part Number
1/8	1/8	<b>N1MF-02-02</b>	<b>N9MF-02-02</b>	<b>N9F-02-02</b>
1/8	1/4	<b>N1MF-02-04</b>	<b>N9MF-02-04</b> ¥	
1/8	3/8	<b>N1MF-02-06</b> ¥	<b>N9MF-02-06</b>	
1/4	1/4	<b>N1MF-04-04</b>	<b>N9MF-04-04</b>	<b>N9F-04-04</b>
1/4	3/8	<b>N1MF-04-06</b>	<b>N9MF-04-06</b> ¥	
1/4	1/2	<b>N1MF-04-08</b> ¥		
3/8	1/4	<b>N1MF-06-04</b> ¥		
3/8	3/8	<b>N1MF-06-06</b>	<b>N9MF-06-06</b>	<b>N9F-06-06</b>
3/8	1/2	<b>N1MF-06-08</b>		
1/2	1/2	<b>N1MF-08-08</b>	<b>N9MF-08-08</b>	<b>N9F-08-08</b>
1/2	3/4	<b>N1MF-08-12</b>		
3/4	3/4	<b>N1MF-12-12</b>	<b>N9MF-12-12</b> ¥	<b>N9F-12-12</b>
1	1	<b>N1MF-16-16</b>	<b>N9MF-16-16</b>	<b>N9F-16-16</b>
1-1/4	1-1/4			<b>N9F-20-20</b>

	N5M	N5F	N5MFF
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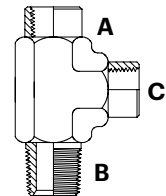
# NPT



NPTM x NPTM x NPTM Tee



NPTF x NPTF x NPTF Tee

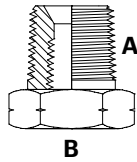


NPTF x NPTM x NPTF Tee

A NPT	B NPT	C NPT	Part Number	Part Number	Part Number
1/8	1/8	1/8	<b>N5M-02-02-02</b>	<b>N5F-02-02-02</b>	<b>N5MFF-02-02-02</b>
1/4	1/4	1/4	<b>N5M-04-04-04</b>	<b>N5F-04-04-04</b>	<b>N5MFF-04-04-04</b>
3/8	3/8	3/8	<b>N5M-06-06-06</b>	<b>N5F-06-06-06</b>	<b>N5MFF-06-06-06</b>
1/2	1/2	1/2	<b>N5M-08-08-08</b>	<b>N5F-08-08-08</b>	<b>N5MFF-08-08-08</b> ¥
3/4	3/4	3/4	<b>N5M-12-12-12</b>	<b>N5F-12-12-12</b>	<b>N5MFF-12-12-12</b> ¥
1	1	1	<b>N5M-16-16-16</b>	<b>N5F-16-16-16</b> ¥	<b>N5MFF-16-16-16</b> ¥
1-1/4	1-1/4	1-1/4		<b>N5F-20-20-20</b> ¥	

# N1R

## NPT



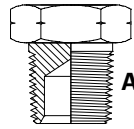
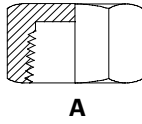
NPT Reducing Bush

A NPT	B NPT	Part Number							
1/4	1/8	<b>N1R-04-02</b>							
3/8	1/8	<b>N1R-06-02</b>							
3/8	1/4	<b>N1R-06-04</b>							
1/2	1/8	<b>N1R-08-02</b>							
1/2	1/4	<b>N1R-08-04</b>							
1/2	3/8	<b>N1R-08-06</b>							
3/4	1/4	<b>N1R-12-04</b>							
3/4	3/8	<b>N1R-12-06</b>							
3/4	1/2	<b>N1R-12-08</b>							
1	1/4	<b>N1R-16-04</b>							
1	3/8	<b>N1R-16-06</b>	¥						
1	1/2	<b>N1R-16-08</b>							
1	3/4	<b>N1R-16-12</b>							
1-1/4	1/2	<b>N1R-20-08</b>	¥						
1-1/4	3/4	<b>N1R-20-12</b>	¥						
1-1/4	1	<b>N1R-20-16</b>							
1-1/2	3/4	<b>N1R-24-12</b>							
1-1/2	1	<b>N1R-24-16</b>							
1-1/2	1-1/4	<b>N1R-24-20</b>							
2	1	<b>N1R-32-16</b>	¥						
2	1-1/4	<b>N1R-32-20</b>	¥						
2	1-1/2	<b>N1R-32-24</b>	¥						

**NC**

**NP**

**NPT**



*NPT Cap*

*NPT Plug*

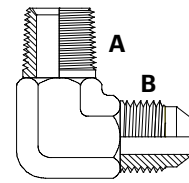
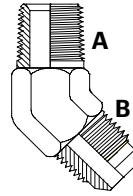
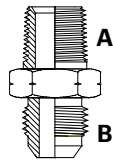
<b>A NPT</b>	<b>Part Number</b>	<b>Part Number</b>	
1/8	<b>NC-02</b>	<b>NP-02</b>	
1/4	<b>NC-04</b>	<b>NP-04</b>	
3/8	<b>NC-06</b>	<b>NP-06</b>	
1/2	<b>NC-08</b>	<b>NP-08</b>	
3/4	<b>NC-12</b>	<b>NP-12</b>	
1	<b>NC-16</b>	<b>NP-16</b>	
1-1/4		<b>NP-20</b>	
1-1/2		<b>NP-24</b>	
2		<b>NP-32</b>	
3		<b>NP-48</b>	¥

**JN1M**

**JN4M**

**JN9M**

**NPT  
X  
JIC**



NPTM x JICM Nipple

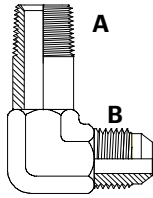
NPTM x JICM 45° Elbow

NPTM x JICM 90° Elbow

A NPT	B JIC	Part Number		Part Number		Part Number	
1/8	3/8	<b>JN1M-02-06</b>	¥			<b>JN9M-02-06</b>	¥
1/8	7/16	<b>JN1M-02-07</b>		<b>JN4M-02-07</b>		<b>JN9M-02-07</b>	
1/8	1/2	<b>JN1M-02-08</b>	¥			<b>JN9M-02-08</b>	
1/8	9/16	<b>JN1M-02-09</b>		<b>JN4M-02-09</b>		<b>JN9M-02-09</b>	
1/4	7/16	<b>JN1M-04-07</b>		<b>JN4M-04-07</b>		<b>JN9M-04-07</b>	
1/4	1/2	<b>JN1M-04-08</b>	¥	<b>JN4M-04-08</b>	¥	<b>JN9M-04-08</b>	
1/4	9/16	<b>JN1M-04-09</b>		<b>JN4M-04-09</b>	¥	<b>JN9M-04-09</b>	
1/4	3/4	<b>JN1M-04-12</b>		<b>JN4M-04-12</b>	¥	<b>JN9M-04-12</b>	
3/8	7/16	<b>JN1M-06-07</b>				<b>JN9M-06-07</b>	¥
3/8	1/2	<b>JN1M-06-08</b>	¥			<b>JN9M-06-08</b>	¥
3/8	9/16	<b>JN1M-06-09</b>		<b>JN4M-06-09</b>	¥	<b>JN9M-06-09</b>	
3/8	3/4	<b>JN1M-06-12</b>		<b>JN4M-06-12</b>	¥	<b>JN9M-06-12</b>	
3/8	7/8	<b>JN1M-06-14</b>		<b>JN4M-06-14</b>		<b>JN9M-06-14</b>	
3/8	1-1/16	<b>JN1M-06-17</b>					
1/2	7/16	<b>JN1M-08-07</b>	¥			<b>JN9M-08-07</b>	¥
1/2	9/16	<b>JN1M-08-09</b>		<b>JN4M-08-09</b>	¥	<b>JN9M-08-09</b>	
1/2	3/4	<b>JN1M-08-12</b>		<b>JN4M-08-12</b>	¥	<b>JN9M-08-12</b>	
1/2	7/8	<b>JN1M-08-14</b>		<b>JN4M-08-14</b>	¥	<b>JN9M-08-14</b>	
1/2	1-1/16	<b>JN1M-08-17</b>		<b>JN4M-08-17</b>	¥	<b>JN9M-08-17</b>	¥
3/4	9/16	<b>JN1M-12-09</b>					
3/4	3/4	<b>JN1M-12-12</b>				<b>JN9M-12-12</b>	¥
3/4	7/8	<b>JN1M-12-14</b>		<b>JN4M-12-14</b>	¥	<b>JN9M-12-14</b>	¥
3/4	1-1/16	<b>JN1M-12-17</b>		<b>JN4M-12-17</b>	¥	<b>JN9M-12-17</b>	
3/4	1-5/16	<b>JN1M-12-21</b>		<b>JN4M-12-21</b>	¥	<b>JN9M-12-21</b>	¥
1	3/4	<b>JN1M-16-12</b>					
1	7/8	<b>JN1M-16-14</b>	¥				
1	1-1/16	<b>JN1M-16-17</b>		<b>JN4M-16-17</b>	¥	<b>JN9M-16-17</b>	
1	1-5/16	<b>JN1M-16-21</b>		<b>JN4M-16-21</b>	¥	<b>JN9M-16-21</b>	
1	1-5/8	<b>JN1M-16-26</b>	¥			<b>JN9M-16-26</b>	¥
1-1/4	1-1/16	<b>JN1M-20-17</b>	¥			<b>JN9M-20-17</b>	¥
1-1/4	1-5/16	<b>JN1M-20-21</b>				<b>JN9M-20-21</b>	¥
1-1/4	1-5/8	<b>JN1M-20-26</b>	¥	<b>JN4M-20-26</b>	¥	<b>JN9M-20-26</b>	¥
1-1/4	1-7/8	<b>JN1M-20-30</b>					
1-1/2	1-5/16	<b>JN1M-24-21</b>					
1-1/2	1-5/8	<b>JN1M-24-26</b>	¥			<b>JN9M-24-26</b>	¥
1-1/2	1-7/8	<b>JN1M-24-30</b>		<b>JN4M-24-30</b>	¥	<b>JN9M-24-30</b>	
2	1-7/8	<b>JN1M-32-30</b>	¥			<b>JN9M-32-30</b>	¥
2	2-1/2	<b>JN1M-32-40</b>		<b>JN4M-32-40</b>		<b>JN9M-32-40</b>	
2-1/2	2-1/2	<b>JN1M-40-40</b>	¥				

## JN9M EXT

**NPT  
X  
JIC**



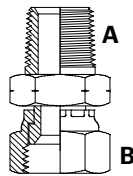
NPTM x JICM 90° Long Elbow

A NPT	B JIC	Part Number					
1/8	7/16	<b>JN9M-02-07-029</b>					
1/8	7/16	<b>JN9M-02-07-039</b>					
1/8	7/16	<b>JN9M-02-07-058</b>					
1/4	7/16	<b>JN9M-04-07-040</b>					
1/4	9/16	<b>JN9M-04-09-040</b>	¥				
3/8	3/4	<b>JN9M-06-12-046</b>	¥				
1/2	3/4	<b>JN9M-08-12-072</b>	¥				
3/4	1-1/16	<b>JN9M-12-17-062</b>	¥				

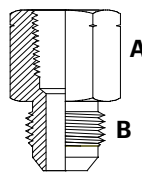
## NJ1MFS

## JN1MF

**NPT  
X  
JIC**



NPTM x JICFS Adaptor

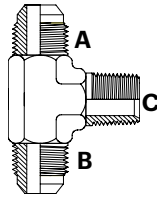


NPTF x JICM Adaptor

A NPT	B JIC	Part Number		Part Number			
1/8	7/16	<b>NJ1MFS-02-07</b>	¥	<b>JN1MF-02-07</b>			
1/4	7/16	<b>NJ1MFS-04-07</b>		<b>JN1MF-04-07</b>			
1/4	9/16	<b>NJ1MFS-04-09</b>		<b>JN1MF-04-09</b>			
1/4	3/4			<b>JN1MF-04-12</b>	¥		
3/8	9/16	<b>NJ1MFS-06-09</b>	¥	<b>JN1MF-06-09</b>			
3/8	3/4	<b>NJ1MFS-06-12</b>					
3/8	7/8	<b>NJ1MFS-06-14</b>	¥				
1/2	3/4	<b>NJ1MFS-08-12</b>		<b>JN1MF-08-12</b>			
1/2	7/8	<b>NJ1MFS-08-14</b>	¥				
1/2	1-1/16			<b>JN1MF-08-17</b>	¥		
3/4	1-1/16	<b>NJ1MFS-12-17</b>	¥	<b>JN1MF-12-17</b>	¥		
1	1-5/16	<b>NJ1MFS-16-21</b>	¥	<b>JN1MF-16-21</b>	¥		
1-1/4	1-5/8	<b>NJ1MFS-20-26</b>	¥				
2	2-1/2	<b>NJ1MFS-32-40</b>	¥				

## NJ5M

**JIC  
X  
NPT**

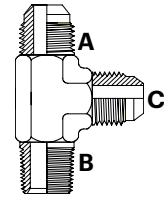


JIC x JICM x NPTM Tee

A JIC	B JIC	C NPT	Part Number	
7/16	7/16	1/8	<b>NJ5M-07-07-02</b>	
7/16	7/16	1/4	<b>NJ5M-07-07-04</b>	¥
9/16	9/16	1/4	<b>NJ5M-09-09-04</b>	
9/16	9/16	3/8	<b>NJ5M-09-09-06</b>	
3/4	3/4	3/8	<b>NJ5M-12-12-06</b>	¥
3/4	3/4	1/2	<b>NJ5M-12-12-08</b>	
1-1/16	1-1/16	3/4	<b>NJ5M-17-17-12</b>	¥
1-5/16	1-5/16	1	<b>NJ5M-21-21-16</b>	

## JN5M

**JIC  
X  
NPT**

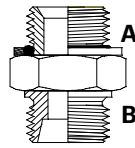


JICM x NPTM x JICM Tee

A JIC	B NPT	C JIC	Part Number	
7/16	1/8	7/16	<b>JN5M-07-02-07</b>	¥
7/16	1/4	7/16	<b>JN5M-07-04-07</b>	¥
9/16	1/4	9/16	<b>JN5M-09-04-09</b>	¥
9/16	3/8	9/16	<b>JN5M-09-06-09</b>	¥
3/4	3/8	3/4	<b>JN5M-12-06-12</b>	
3/4	1/2	3/4	<b>JN5M-12-08-12</b>	¥
7/8	1/2	7/8	<b>JN5M-14-08-14</b>	¥
1-1/16	3/4	1-1/16	<b>JN5M-17-12-17</b>	¥

## PM1M

**BSPP  
X  
METRIC**



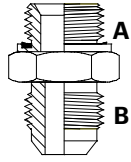
BSPP x METRIC ISO Stud

A BSPP	B MET	Part Number	
1/4	14	<b>PM1M-04-14</b>	¥
1/4	18	<b>PM1M-04-18</b>	¥
3/8	18	<b>PM1M-06-18</b>	
3/8	20	<b>PM1M-06-20</b>	¥
1/2	18	<b>PM1M-08-18</b>	
1/2	22	<b>PM1M-08-22</b>	
1/2	24	<b>PM1M-08-24</b>	
3/4	22	<b>PM1M-12-22</b>	¥
3/4	24	<b>PM1M-12-24</b>	
3/4	30	<b>PM1M-12-30</b>	

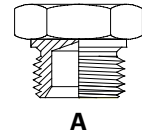
**JM1M**

**MP**

**METRIC  
X  
JIC**



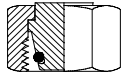
**METRIC**



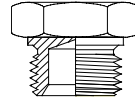
METRIC ISO Stud x JIC Nipple

METRIC Stud Plug

A MET	B JIC	Part Number		A MET	Part Number	
6	7/16	<b>JM1M-06-07</b>		12	<b>MP-12</b>	
8	7/16	<b>JM1M-08-07</b>	¥	14	<b>MP-14</b>	
10	7/16	<b>JM1M-10-07</b>		16	<b>MP-16</b>	
10	9/16	<b>JM1M-10-09</b>		18	<b>MP-18</b>	
12	7/16	<b>JM1M-12-07</b>		20	<b>MP-20</b>	
12	9/16	<b>JM1M-12-09</b>		22	<b>MP-22</b>	
12	3/4	<b>JM1M-12-12</b>		24	<b>MP-24</b>	
14	7/16	<b>JM1M-14-07</b>		26	<b>MP-26</b>	
14	9/16	<b>JM1M-14-09</b>		27	<b>MP-27</b>	
14	3/4	<b>JM1M-14-12</b>		28	<b>MP-28</b>	
16	7/16	<b>JM1M-16-07</b>		30	<b>MP-30</b>	
16	9/16	<b>JM1M-16-09</b>		33	<b>MP-33</b>	
16	3/4	<b>JM1M-16-12</b>		36	<b>MP-36</b>	
16	7/8	<b>JM1M-16-14</b>		42	<b>MP-42</b>	¥
18	9/16	<b>JM1M-18-09</b>	¥	52	<b>MP-52</b>	
18	3/4	<b>JM1M-18-12</b>				
18	7/8	<b>JM1M-18-14</b>				
18	1-1/16	<b>JM1M-18-17</b>				
20	9/16	<b>JM1M-20-09</b>				
20	3/4	<b>JM1M-20-12</b>				
20	7/8	<b>JM1M-20-14</b>				
20	1-1/16	<b>JM1M-20-17</b>				
22	9/16	<b>JM1M-22-09</b>				
22	3/4	<b>JM1M-22-12</b>				
22	7/8	<b>JM1M-22-14</b>				
22	1-1/16	<b>JM1M-22-17</b>				
22	1-5/16	<b>JM1M-22-21</b>				
24	1-1/16	<b>JM1M-24-17</b>				
26	3/4	<b>JM1M-26-12</b>	¥			
26	1-1/16	<b>JM1M-26-17</b>				
27	1-1/16	<b>JM1M-27-17</b>				
27	1-5/16	<b>JM1M-27-21</b>				
28	1-1/16	<b>JM1M-28-17</b>				
30	1-5/16	<b>JM1M-30-21</b>				
33	1-1/16	<b>JM1M-33-17</b>				
33	1-5/16	<b>JM1M-33-21</b>				
33	1-5/8	<b>JM1M-33-26</b>				
36	1-1/16	<b>JM1M-36-17</b>				
42	1-5/16	<b>JM1M-42-21</b>				
42	1-5/8	<b>JM1M-42-26</b>				
42	1-7/8	<b>JM1M-42-30</b>				
48	1-5/8	<b>JM1M-48-26</b>				
48	1-7/8	<b>JM1M-48-30</b>				

**MCL****MPL****LIGHT METRIC**

A

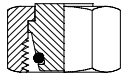


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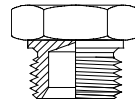
LIGHT METRIC Cap

LIGHT METRIC Plug

A MET	TUBE SIZE	Part Number	Part Number
12	6mm	<b>MCL-12</b>	<b>MPL-12</b>
14	8mm	<b>MCL-14</b>	<b>MPL-14</b>
16	10mm	<b>MCL-16</b>	<b>MPL-16</b>
18	12mm	<b>MCL-18</b>	<b>MPL-18</b>
22	15mm	<b>MCL-22</b>	<b>MPL-22</b>
26	18mm	<b>MCL-26</b>	<b>MPL-26</b>
30	22mm	<b>MCL-30</b>	<b>MPL-30</b>
36	28mm	<b>MCL-36</b>	<b>MPL-36</b>
45	35mm	<b>MCL-45</b>	<b>MPL-45</b>
52	42mm	<b>MCL-52</b>	<b>MPL-52</b>

**MCH****MPH****HEAVY METRIC**

A



A

HEAVY METRIC Cap

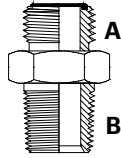
HEAVY METRIC Plug

A MET	TUBE SIZE	Part Number	Part Number
14	6mm	<b>MCH-14</b>	<b>MPH-14</b>
16	8mm	<b>MCH-16</b>	<b>MPH-16</b>
18	10mm	<b>MCH-18</b>	<b>MPH-18</b>
20	12mm	<b>MCH-20</b>	<b>MPH-20</b>
22	14mm	<b>MCH-22</b>	<b>MPH-22</b>
24	16mm	<b>MCH-24</b>	<b>MPH-24</b>
30	20mm	<b>MCH-30</b>	<b>MPH-30</b>
36	25mm	<b>MCH-36</b>	<b>MPH-36</b>
42	30mm	<b>MCH-42</b>	<b>MPH-42</b>
52	38mm	<b>MCH-52</b>	<b>MPH-52</b>

**CB1M**

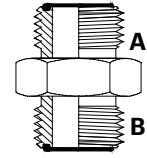
**C1M**

**METRIC  
FLAT FACE  
X  
BSPT**



MFF X BSPT Male Adaptor

**METRIC  
FLAT FACE**

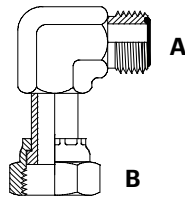


MFF X MFF Male Nipple

A MFS	B BSPT	Part Number	A MFS	B MFS	Part Number
14	1/4	<b>CB1M-14-04</b>	22	22	<b>C1M-22-22</b>
14	3/8	<b>CB1M-14-06</b>	30	30	<b>C1M-30-30</b>
16	1/4	<b>CB1M-16-04</b>			
16	3/8	<b>CB1M-16-06</b>			
16	1/2	<b>CB1M-16-08</b>			
18	3/8	<b>CB1M-18-06</b>			
18	1/2	<b>CB1M-18-08</b>			

**C9MFS**

**METRIC  
FLAT FACE**



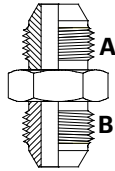
MFFM X MFFFS 90° Elbow

A MFS	B MFS	Part Number					
16	16	<b>C9MFS-16-16</b>					
18	18	<b>C9MFS-18-18</b>					

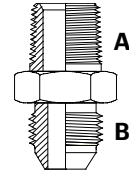
## K1M

## BK1M

### KOM



### BSPT X KOM



KOM Male x KOM Male Nipple

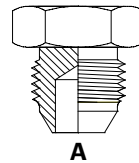
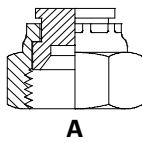
BSPTM x KOM Male Adaptor

A KOM	B KOM	Part Number		A BSPT	B KOM	Part Number	
14	14	<b>K1M-14-14</b>		1/4	14	<b>BK1M-04-14</b>	
16	16	<b>K1M-16-16</b>	¥	3/8	16	<b>BK1M-06-16</b>	
18	18	<b>K1M-18-18</b>		3/8	22	<b>BK1M-06-22</b>	
20	20	<b>K1M-20-20</b>	¥	1/2	18	<b>BK1M-08-18</b>	¥
22	22	<b>K1M-22-22</b>		1/2	20	<b>BK1M-08-20</b>	¥
24	24	<b>K1M-24-24</b>		1/2	22	<b>BK1M-08-22</b>	¥
26	26	<b>K1M-26-26</b>		3/4	24	<b>BK1M-12-24</b>	
30	30	<b>K1M-30-30</b>					
33	33	<b>K1M-33-33</b>					

## KC

## KP

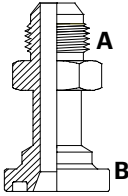
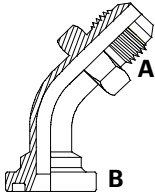
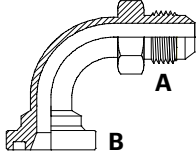
### KOM

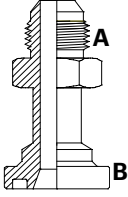
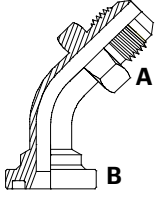
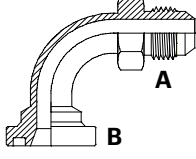


KOM Cap

KOM Plug

A KOM	Part Number	Part Number	
12	<b>KC-12</b>	<b>KP-12</b>	
14	<b>KC-14</b>	<b>KP-14</b>	
16	<b>KC-16</b>	<b>KP-16</b>	¥
18	<b>KC-18</b>	<b>KP-18</b>	
20	<b>KC-20</b>	<b>KP-20</b>	
22	<b>KC-22</b>	<b>KP-22</b>	
24	<b>KC-24</b>	<b>KP-24</b>	
26		<b>KP-26</b>	
30	<b>KC-30</b>	<b>KP-30</b>	
33	<b>KC-33</b>	<b>KP-33</b>	
36	<b>KC-36</b>	<b>KP-36</b>	

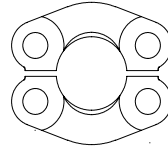
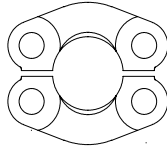
		<b>JF1M</b>		<b>JF4M</b>		<b>JF9M</b>	
<b>JIC X FLANGE (C61)</b>							
		<i>JICM x FLANGE Adaptor</i>		<i>JICM x FLANGE 45° Elbow</i>		<i>JICM x FLANGE 90° Elbow</i>	
A JIC	B FLANGE	Part Number		Part Number		Part Number	
3/4	1/2	<b>JF1M-12-08</b>		<b>JF4M-12-08</b>		<b>JF9M-12-08</b>	¥
3/4	3/4	<b>JF1M-12-12</b>				<b>JF9M-12-12</b>	
7/8	1/2	<b>JF1M-14-08</b>	¥			<b>JF9M-14-08</b>	¥
7/8	3/4	<b>JF1M-14-12</b>		<b>JF4M-14-12</b>		<b>JF9M-14-12</b>	
1-1/16	3/4	<b>JF1M-17-12</b>		<b>JF4M-17-12</b>	¥	<b>JF9M-17-12</b>	
1-1/16	1	<b>JF1M-17-16</b>		<b>JF4M-17-16</b>		<b>JF9M-17-16</b>	
1-1/16	1-1/4	<b>JF1M-17-20</b>	¥			<b>JF9M-17-20</b>	
1-5/16	3/4	<b>JF1M-21-12</b>				<b>JF9M-21-12</b>	¥
1-5/16	1	<b>JF1M-21-16</b>		<b>JF4M-21-16</b>		<b>JF9M-21-16</b>	
1-5/16	1-1/4	<b>JF1M-21-20</b>		<b>JF4M-21-20</b>		<b>JF9M-21-20</b>	
1-5/16	1-1/2	<b>JF1M-21-24</b>	¥			<b>JF9M-21-24</b>	
1-5/8	1-1/4	<b>JF1M-26-20</b>		<b>JF4M-26-20</b>	¥	<b>JF9M-26-20</b>	
1-5/8	1-1/2	<b>JF1M-26-24</b>		<b>JF4M-26-24</b>		<b>JF9M-26-24</b>	¥
1-5/8	2	<b>JF1M-26-32</b>	¥			<b>JF9M-26-32</b>	
1-7/8	1-1/2	<b>JF1M-30-24</b>	¥	<b>JF9M-30-24</b>		<b>JF9M-30-24</b>	
2-1/2	2	<b>JF1M-40-32</b>	¥			<b>JF9M-40-32</b>	¥

		<b>JFH1M</b>		<b>JFH4M</b>		<b>JFH9M</b>	
<b>JIC X FLANGE (C62)</b>							
		<i>JICM x FLANGE Adaptor</i>		<i>JICM x FLANGE 45° Elbow</i>		<i>JICM x FLANGE 90° Elbow</i>	
A JIC	B FLANGE	Part Number		Part Number		Part Number	
1-1/16	3/4	<b>JFH1M-17-12</b>		<b>JFH4M-17-12</b>		<b>JFH9M-17-12</b>	
1-1/16	1	<b>JFH1M-17-16</b>				<b>JFH9M-17-16</b>	
1-1/16	1-1/4					<b>JFH9M-17-20</b>	
1-5/16	3/4	<b>JFH1M-21-12</b>	¥			<b>JFH9M-21-12</b>	
1-5/16	1	<b>JFH1M-21-16</b>		<b>JFH4M-21-16</b>	¥	<b>JFH9M-21-16</b>	
1-5/16	1-1/4	<b>JFH1M-21-20</b>				<b>JFH9M-21-20</b>	
1-5/8	1-1/4	<b>JFH1M-26-20</b>		<b>JFH4M-26-20</b>		<b>JFH9M-26-20</b>	
1-5/8	1-1/2	<b>JFH1M-26-24</b>				<b>JFH9M-26-24</b>	
1-7/8	1-1/2	<b>JFH1M-30-24</b>				<b>JFH9M-30-24</b>	
1-7/8	2	<b>JFH1M-30-32</b>					
2-1/2	2					<b>JFH9M-40-32</b>	¥

**SF**

**SFH**

**FLANGE CLAMPS (PAIR)**



Code 61 Flange Clamps

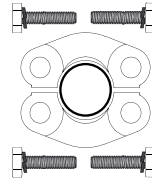
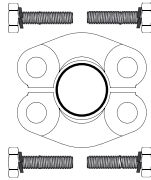
Code 62 Flange Clamps

A FLANGE	Part Number		Part Number	
1/2	<b>SF-08</b>	¥	<b>SFH-08</b>	¥
3/4	<b>SF-12</b>		<b>SFH-12</b>	
1	<b>SF-16</b>		<b>SFH-16</b>	
1-1/4	<b>SF-20</b>		<b>SFH-20</b>	
1-1/2	<b>SF-24</b>		<b>SFH-24</b>	
2	<b>SF-32</b>		<b>SFH-32</b>	

**SFK**

**SFHK**

**FLANGE CLAMPS KIT**



Includes Bolts & Seal

Code 61 Flange Clamp Kit

Code 62 Flange Clamp Kit

A FLANGE	Part Number		Part Number	
1/2	<b>SFK-08</b>		<b>SFHK-08</b>	¥
3/4	<b>SFK-12</b>		<b>SFHK-12</b>	
1	<b>SFK-16</b>		<b>SFHK-16</b>	
1-1/4	<b>SFK-20</b>		<b>SFHK-20</b>	
1-1/2	<b>SFK-24</b>		<b>SFHK-24</b>	
2	<b>SFK-32</b>		<b>SFHK-32</b>	

**FRS**

**SPACER RING**

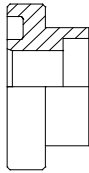


SUPERCAT Flange Ring Spacer

A FLANGE	Part Number
3/4	<b>FRS-12</b>
1	<b>FRS-16</b>
1-1/4	<b>FRS-20</b>
1-1/2	<b>FRS-24</b>
2	<b>FRS-32</b>

## F25M

### FLANGE



C61 Tube Weld

A FLANGE	B TUBE	Part Number
1/2	1/2	<b>F25M-08-08</b>
3/4	1/2	<b>F25M-12-08</b>
3/4	5/8	<b>F25M-12-10</b>
3/4	3/4	<b>F25M-12-12</b>
3/4	1	<b>F25M-12-16</b>
1	1/2	<b>F25M-16-08</b>
1	3/4	<b>F25M-16-12</b>
1	1	<b>F25M-16-16</b>
1-1/4	1	<b>F25M-20-16</b>
1-1/4	1-1/4	<b>F25M-20-20</b>
1-1/4	1-1/2	<b>F25M-20-24</b>
1-1/2	1-1/4	<b>F25M-24-20</b>
1-1/2	1-1/2	<b>F25M-24-24</b>
2	1-1/4	<b>F25M-32-20</b>
2	1-1/2	<b>F25M-32-24</b>
2	2	<b>F25M-32-32</b>
2-1/2	2-1/2	<b>F25M-40-40</b>

## BD-61

## BD-62

### FLANGE PLUG



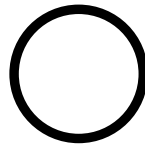
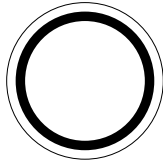
C61 Flange Plug

C62 Flange Plug

A FLANGE	Part Number	Part Number
1/2	<b>BD-61-08</b>	
3/4	<b>BD-61-12</b>	<b>BD-62-12</b>
1	<b>BD-61-16</b>	<b>BD-62-16</b>
1-1/4	<b>BD-61-20</b>	<b>BD-62-20</b>
1-1/2	<b>BD-61-24</b>	<b>BD-62-24</b>
2	<b>BD-61-32</b>	<b>BD-62-32</b>
2-1/2	<b>BD-61-40</b>	
3	<b>BD-61-48</b>	
4	<b>BD-61-64</b>	

	<b>BS</b>	<b>POR</b>	<b>PRR</b>
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# BSPP O RING SEALS



BSPP BONDED SEAL

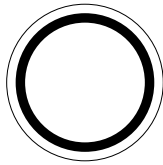
BSPP O RING

BSPP RETAINING RING

A	Part Number	Part Number	Part Number
1/8	<b>BS-02</b>	<b>POR-02</b>	<b>PRR-02</b>
1/4	<b>BS-04</b>	<b>POR-04</b>	<b>PRR-04</b>
3/8	<b>BS-06</b>	<b>POR-06</b>	<b>PRR-06</b>
1/2	<b>BS-08</b>	<b>POR-08</b>	<b>PRR-08</b>
5/8	<b>BS-10</b>	<b>POR-10</b>	<b>PRR-10</b>
3/4	<b>BS-12</b>	<b>POR-12</b>	<b>PRR-12</b>
1	<b>BS-16</b>	<b>POR-16</b>	<b>PRR-16</b>
1-1/4	<b>BS-20</b>	<b>POR-20</b>	<b>PRR-20</b>
1-1/2	<b>BS-24</b>	<b>POR-24</b>	<b>PRR-24</b>
2	<b>BS-32</b>	<b>POR-32</b>	<b>PRR-32</b>
2-1/2	<b>BS-40</b>		
3	<b>BS-48</b>		

	<b>MSR</b>		
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# METRIC O RING SEALS

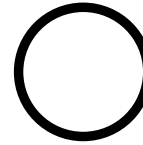
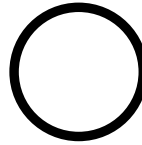
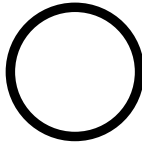


METRIC SEALING RING

A	Part Number
10	<b>MSR-10</b>
12	<b>MSR-12</b>
14	<b>MSR-14</b>
16	<b>MSR-16</b>
18	<b>MSR-18</b>
20	<b>MSR-20</b>
22	<b>MSR-22</b>
24	<b>MSR-24</b>
26	<b>MSR-26</b>
27	<b>MSR-27</b>
28	<b>MSR-28</b>
30	<b>MSR-30</b>
33	<b>MSR-33</b>
36	<b>MSR-36</b>
42	<b>MSR-42</b>
48	<b>MSR-48</b>

	<b>OOR</b>	<b>UOR</b>	<b>FOR</b>
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**O RING**



ORFS O RING

UNO O RING

FLANGE O RING

A	Part Number	Part Number	
7/16	<b>OOR-07</b>	<b>UOR-07</b>	
1/2		<b>UOR-08</b>	<b>FOR-08</b>
9/16	<b>OOR-09</b>	<b>UOR-09</b>	
5/8			<b>FOR-10</b>
11/16	<b>OOR-11</b>		
3/4		<b>UOR-12</b>	<b>FOR-12</b>
13/16	<b>OOR-13</b>		
7/8		<b>UOR-14</b>	
1	<b>OOR-16</b>		<b>FOR-16</b>
1-1/16		<b>UOR-17</b>	
1-3/16	<b>OOR-19</b>	<b>UOR-19</b>	
1-1/4			<b>FOR-20</b>
1-5/16		<b>UOR-21</b>	
1-7/16	<b>OOR-23</b>		
1-1/2			<b>FOR-24</b>
1-5/8		<b>UOR-26</b>	
1-11/16	<b>OOR-27</b>		
1-7/8		<b>UOR-30</b>	
2	<b>OOR-32</b>		<b>FOR-32</b>
2-1/2		<b>UOR-40</b>	<b>FOR-40</b>
3			<b>FOR-48</b>
3-1/2			<b>FOR-56</b>
4			<b>FOR-64</b>



# Notes

A series of horizontal dotted lines for writing notes.



# Anytime. Anywhere.

## **Always Here.™**

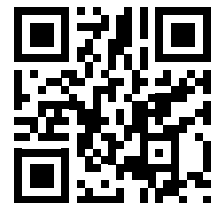


C10-008 9/22



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