

Adaptors



ADAPTORS
DISCLAIMER
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Due to our continuous product and range development we reserve the right to alter the specification without prior notice.

We welcome any feedback re suspected errors or omissions to the information enclosed. We can be contacted via email hspicer@hardyspicer.com.au

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Adaptors

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ADAPTORS

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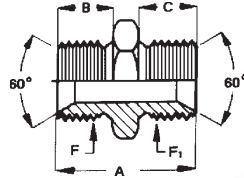
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BSPP x BSPP NIPPLE

PART NO.	THRD F	THRD F1	DIMENSIONS mm		
			A	B	C
P1M-04-04	1/4" - 19	1/4" - 19	28	11	11
P1M-06-04	3/8" - 19	1/4" - 19	30	13	11
P1M-06-06	3/8" - 19	3/8" - 19	32	13	13
P1M-08-04	1/2" - 14	1/4" - 19	33	15	11
P1M-08-06	1/2" - 14	3/8" - 19	35	15	13
P1M-08-08	1/2" - 14	1/2" - 14	37	15	15
P1M-12-08	3/4" - 14	1/2" - 14	41	18	15
P1M-12-12	3/4" - 14	3/4" - 14	44	18	18
P1M-16-08	1" - 11	1/2" - 14	44	20	15
P1M-16-12	1" - 11	3/4" - 14	47	20	18
P1M-16-16	1" - 11	1" - 11	49	20	20
P1M-20-16	1-1/4" - 11	1" - 11	50	20	20
P1M-20-20	1-1/4" - 11	1-1/4"-11	50	20	20
P1M-24-20	1-1/2" - 11	1-1/4" - 11	54	21.5	20
P1M-24-24	1-1/2" - 11	1-1/2" - 11	55	21.5	21.5
P1M-32-24	2" - 11	1-1/2" - 11	59	25	21.5
P1M-32-32	2" - 11	2" - 11	63	25	25

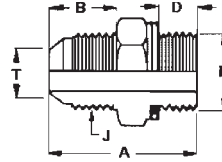
BONDED SEALS INCLUDED

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BSPP x JIC NIPPLE

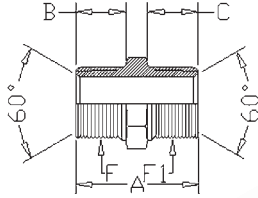
PART NO.	THRD F BSPP	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			A	B	D	inch	
JP1M-02-07	1/8" - 28	7/16" - 20	27.0	14.0	8.0	1/4"	
JP1M-02-09	1/8" - 28	9/16" - 18	27.0	14.0	8.0	3/8"	
JP1M-04-07	1/4" - 19	7/16" - 20	34.5	14.0	10	1/4"	
JP1M-04-09	1/4" - 19	9/16" - 18	34.5	14.0	10	3/8"	
JP1M-04-12	1/4" - 19	3/4" - 16	34.5	17.0	10	1/2"	
JP1M-06-07	3/8" - 19	7/16" - 20	34.5	14.0	10	1/4"	
JP1M-06-09	3/8" - 19	9/16" - 18	34.5	14.0	10	3/8"	
JP1M-06-12	3/8" - 19	3/4" - 16	37.5	17.0	10	1/2"	
JP1M-06-14	3/8" - 19	7/8" - 14	40.5	19.5	10	5/8"	
JP1M-08-09	1/2" - 14	9/16" - 18	38.0	14.0	12	3/8"	
JP1M-08-12	1/2" - 14	3/4" - 16	41.0	17.0	12	1/2"	
JP1M-08-14	1/2" - 14	7/8" - 14	43.5	19.5	12	5/8"	
JP1M-08-17	1/2" - 14	1-1/16" - 12	47.0	22.0	12	3/4"	
JP1M-12-09	3/4" - 14	9/16" - 18	45.0	14	14	3/8"	
JP1M-12-12	3/4" - 14	3/4" - 16	45.0	17.0	14	1/2"	
JP1M-12-14	3/4" - 14	7/8" - 14	47.5	19.5	14	5/8"	
JP1M-12-17	3/4" - 14	1-1/16" - 12	50.0	22.0	14	3/4"	
JP1M-12-21	3/4" - 14	1-5/16" - 12	51.0	23.0	14	1"	
JP1M-16-17	1" - 11	1-1/16" - 12	52.5	22.0	15.5	3/4"	
JP1M-16-21	1" - 11	1-5/16" - 12	53.5	23.0	15.5	1"	
JP1M-16-26	1" - 11	1-5/8" - 12	55.5	24.5	15.5	1-1/4"	
JP1M-20-17	1-1/4" - 11	1-1/16" - 12	57.0	22.0	17.5	3/4"	
JP1M-20-21	1-1/4" - 11	1-5/16" - 12	57.0	23.0	17.5	1"	
JP1M-20-26	1-1/4" - 11	1-5/8" - 12	58.5	24.5	17.5	1-1/4"	
JP1M-20-30	1-1/4" - 11	1-7/8" - 12				1-1/2"	
JP1M-24-26	1-1/2" - 11	1-5/8" - 12				1-1/4"	
JP1M-24-30	1-1/2" - 11	1-7/8" - 12				1-1/2"	
JP1M-32-40	2" - 11	2-1/2" - 12				2"	

BONDED SEAL INCLUDED

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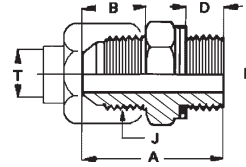
BSPT x BSPT NIPPLE

PART NO.	THRD F	THRD F1	DIMENSIONS mm		
			A	B	C
B1M-02-02	1/8" - 28	1/8" - 28	26	10	10
B1M-04-02	1/4" - 19	1/8" - 28	27	11	10
B1M-04-04	1/4" - 19	1/4" - 19	28	11	11
B1M-06-04	3/8" - 19	1/4" - 19	30	13	11
B1M-06-06	3/8" - 19	3/8" - 19	32	13	13
B1M-08-04	1/2" - 14	1/4" - 19	33	15	11
B1M-08-06	1/2" - 14	3/8" - 19	35	15	13
B1M-08-08	1/2" - 14	1/2" - 14	37	15	15
B1M-10-08	5/8" - 14	1/2" - 14			15
B1M-10-10	5/8" - 14	5/8" - 14			
B1M-12-04	3/4" - 14	1/4" - 19	37	18	11
B1M-12-06	3/4" - 14	3/8" - 19	39	18	13
B1M-12-08	3/4" - 14	1/2" - 14	41	18	15
B1M-12-12	3/4" - 14	3/4" - 14	44	18	18
B1M-16-08	1" - 11	1/2" - 14	44	20	15
B1M-16-12	1" - 11	3/4" - 14	47	20	18
B1M-16-16	1" - 11	1" - 11	49	20	20
B1M-20-12	1-1/4" - 11	3/4" - 14		20	18
B1M-20-16	1-1/4" - 11	1" - 11	50	20	20
B1M-20-20	1-1/4" - 11	1-1/4" - 11	50	20	20
B1M-24-16	1-1/2" - 11	1" - 11	54	21.5	20
B1M-24-20	1-1/2" - 11	1-1/4" - 11	54	21.5	20
B1M-24-24	1-1/2" - 11	1-1/2" - 11	55	21.5	21.5
B1M-32-24	2" - 11	1-1/2" - 11	59	25	21.5
B1M-32-32	2" - 11	2" - 11	63	25	25

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METRIC x JIC NIPPLE

PART NO.	THRD F METRIC	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			A	B	D	inch	
JM1M-06-07		7/16" - 20		14.0		1/4"	
JM1M-10-07		7/16" - 20		14.0		1/4"	
JM1M-12-07	12 x 1.5	7/16" - 20	33.0	14.0	10.0	1/4"	
JM1M-12-09	12 x 1.5	9/16" - 18	33.0	14.0	10.0	3/8"	
JM1M-12-12	12 x 1.5	3/4" - 16		17.0	10.0	1/2"	
JM1M-14-09	14 x 1.5	9/16" - 18	34.0	14.0	10.0	3/8"	
JM1M-14-12	14 x 1.5	3/4" - 16		17.0	10.0	1/2"	
JM1M-16-09	16 x 1.5	9/16" - 18	34.0	14.0	10.0	3/8"	
JM1M-16-12	16 x 1.5	3/4" - 16	37.0	17.0	10.0	1/2"	
JM1M-18-09	18 x 1.5	9/16" - 18	34.5	14.0	10.0	3/8"	
JM1M-18-12	18 x 1.5	3/4" - 16	37.5	17.0	10.0	1/2"	
JM1M-18-14	18 x 1.5	7/8" - 14			10.0	5/8"	
JM1M-18-17	18 x 1.5	1-1/16" - 12	42.5	22.0	10.0	3/4"	
JM1M-22-12	22 x 1.5	3/4" - 16		17.0	12.0	1/2"	
JM1M-22-14	22 x 1.5	7/8" - 14			12.0	5/8"	
JM1M-22-17	22 x 1.5	1-1/16" - 12	46.5	22.0	12.0	3/4"	
JM1M-22-21	22 x 1.5	1-5/16" - 12		23.0	12.0	1"	
JM1M-26-12	26 x 1.5	3/4" - 16	44.5	17.0	13.5	1/2"	
JM1M-26-17	26 x 1.5	1-1/16" - 12	49.0	22.0	12.0	3/4"	
JM1M-26-21	26 x 1.5	1-5/16" - 12	50.5	23.0	13.5	1"	
JM1M-27-21	27 x 2	1-5/16" - 12	50.5	23.0	13.5	1"	
JM1M-28-17	28 x 1.5	1-1/16" - 12		22.0		3/4"	
JM1M-33-17	33 x 2	1-1/16" - 12	53.5	23.0	15.5	3/4"	
JM1M-33-21	33 x 2	1-5/16" - 12	53.5	23.0	15.5	1"	
JM1M-33-26	33 x 2	1-5/8" - 12		24.5	15.5	1-1/4"	
JM1M-42-21	42 x 2	1-5/16" - 12		23.0	17.5	1"	
JM1M-42-26	42 x 2	1-5/8" - 12	58.5	24.5	17.5	1-1/4"	
JM1M-42-30	42 x 2	1-7/8" - 12	65.5	27.5	17.5	1-1/2"	
JM1M-48-30	48 x 2	1-7/8" - 12	65.5	27.5	19.5	1-1/2"	
#JM1M-48-40	48 x 2	2-1/2" - 12	67.5	30.0	19.5	2"	

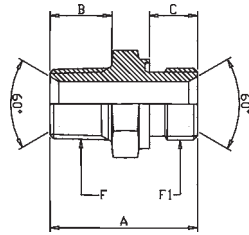
METRIC SEALS SOLD SEPARATELY MSR-

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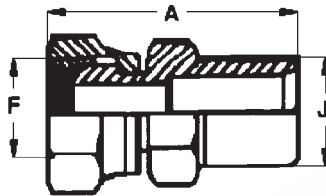
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BSPT x BSPP NIPPLE

PART NO.	THRD F BSPT	THRD F1 BSPP	DIMENSIONS mm		
			A	B	C
BP1M-04-04	1/4" - 19	1/4" - 19	28	11	11
BP1M-04-06	1/4" - 19	3/8" - 19			
BP1M-06-04	3/8" - 19	1/4" - 19			
BP1M-06-06	3/8" - 19	3/8" - 19	32	13	13
BP1M-06-08	3/8" - 19	1/2" - 14			
BP1M-08-06	1/2" - 14	3/8" - 19			
BP1M-08-08	1/2" - 14	1/2" - 14	37	15	15
BP1M-08-12	1/2" - 14	3/4" - 14			
BP1M-12-08	3/4" - 14	1/2" - 14			
BP1M-12-12	3/4" - 14	3/4" - 14	44	18	18
BP1M-12-16	3/4" - 14	1" - 11			
BP1M-16-12	1" - 11	3/4" - 14			
BP1M-16-16	1" - 11	1" - 11	49	20	20
BP1M-16-20	1" - 11	1-1/4" - 11			
BP1M-20-16	1-1/4" - 11	1" - 11			
BP1M-20-20	1-1/4" - 11	1-1/4" - 11	50	20	20
BP1M-24-24	1-1/2" - 11	1-1/2" - 11			

BONDED SEAL INCLUDED



BSPP x BSPT M/F UNION

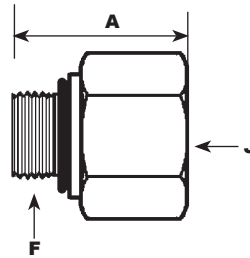
PART NO.	THRD F FEMALE BSPP	THRD J MALE BSPT	DIMENSIONS mm		
			A		
B1MFS-02-02	1/8" - 28	1/8" - 28	28		
B1MFS-04-04	1/4" - 19	1/4" - 19	32		
B1MFS-06-06	3/8" - 19	3/8" - 19	34		
B1MFS-06-08	3/8" - 19	1/2" - 14	36		
B1MFS-08-06	1/2" - 14	3/8" - 14			
B1MFS-08-08	1/2" - 14	1/2" - 14	42		
B1MFS-12-08	3/4" - 14	1/2" - 14			
B1MFS-12-12	3/4" - 14	3/4" - 14	43		
B1MFS-12-16	3/4" - 14	1" - 11			
B1MFS-16-12	1" - 11	3/4" - 14			
B1MFS-16-16	1" - 11	1" - 11	57		
B1MFS-20-20	1-1/4" - 11	1-1/4" - 11			
#B1MFS-24-24	1-1/2" - 11	1-1/2" - 11			

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Adaptors

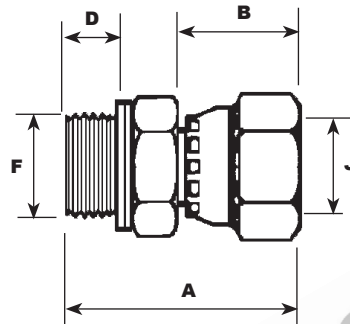
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UN O-RING x BSPT M/F ADAPTOR

PART NO.	THRD F UNO MALE	THRD J BSPT FEMALE	DIMENSIONS mm							
			A							
#UB1MF-09-04	9/16" - 18	1/4" - 19								
UB1MF-12-06	3/4" - 16	3/8" - 19								
UB1MF-12-08	3/4" - 16	1/2" - 14	47.6							
#UB1MF-14-06	7/8" - 14	3/8" - 19								
UB1MF-14-08	7/8" - 14	1/2" - 14	47.6							
UB1MF-17-12	1-1/16" - 12	3/4" - 14	49.0							
UB1MF-21-16	1-5/16" - 12	1" - 11								



BSPP x JIC M/F ADAPTOR

PART NO.	THRD F BSPP MALE	THRD J JIC FEMALE	DIMENSIONS mm			TUBE SIZE	
			A	B	D	inch	
PJ1MFS-02-07	1/8" - 28	7/16" - 20					1/4"
PJ1MFS-04-07	1/4" - 19	7/16" - 20					1/4"
PJ1MFS-04-09	1/4" - 19	9/16" - 18	42.0	21.5	10.0		3/8"
PJ1MFS-06-09	3/8" - 19	9/16" - 18	43.5	23.0	10.0		3/8"
PJ1MFS-06-12	3/8" - 19	3/4" - 16	43.5	23.0	10.0		1/2"
PJ1MFS-08-12	1/2" - 14	3/4" - 16	47.0	23.0	12.0		1/2"
PJ1MFS-08-14	1/2" - 14	7/8" - 14	50.0	26.0	12.0		5/8"
PJ1MFS-12-17	3/4" - 14	1-1/16"-12	55.5	27.5	14.0		3/4"
PJ1MFS-16-21	1" - 11	1-5/16"-12	60.5	30.0	15.5		1"

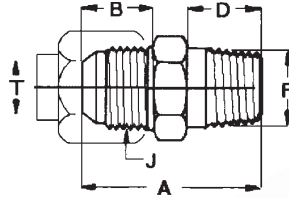
BONDED SEAL INCLUDED

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ADAPTORS



NPT x JIC NIPPLE

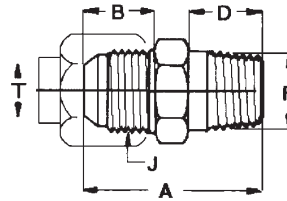
PART NO.	THRD F NPT	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			A	B	D	inch	
JN1M-02-07	1/8" - 27	7/16" - 20	31.0	14.0	10.0	1/4"	
JN1M-02-08	1/8" - 27	1/2" - 20			10.0	5/16"	
JN1M-02-09	1/8" - 27	9/16" - 18		14.0	10.0	3/8"	
JN1M-04-07	1/4" - 18	7/16" - 20	35.5	14.0	14.5	1/4"	
JN1M-04-08	1/4" - 18	1/2" - 20				5/16"	
JN1M-04-09	1/4" - 18	9/16" - 18	36.0	14.0	14.5	3/8"	
JN1M-04-12	1/4" - 18	3/4" - 16	39.0	17.0	14.5	1/2"	
JN1M-06-07	3/8" - 18	7/16" - 20		14.0	14.5	1/4"	
JN1M-06-08	3/8" - 18	1/2" - 20			14.5	5/16"	
JN1M-06-09	3/8" - 18	9/16" - 18	36.0	14.0	14.5	3/8"	
JN1M-06-12	3/8" - 18	3/4" - 16	39.0	17.0	14.5	1/2"	
JN1M-06-14	3/8" - 18	7/8" - 14		19.5	14.5	5/8"	
JN1M-08-09	1/2" - 14	9/16" - 18		14.0	19.0	3/8"	
JN1M-08-12	1/2" - 14	3/4" - 16	45.5	17.0	19.0	1/2"	
JN1M-08-14	1/2" - 14	7/8" - 14	48.0	19.5	19.0	5/8"	
JN1M-08-17	1/2" - 14	1-1/16"-12	52.5	22.0	19.0	3/4"	
JN1M-12-09	3/4" - 14	9/16" - 18		14.0	19.0	3/8"	
JN1M-12-12	3/4" - 14	3/4" - 16	47.5	17.0	19.0	1/2"	
JN1M-12-14	3/4" - 14	7/8" - 14	50.0	19.5	19.0	5/8"	
JN1M-12-17	3/4" - 14	1-1/16"-12	52.5	22.0	19.0	3/4"	
JN1M-12-21	3/4" - 14	1-5/16"-12				1"	
JN1M-16-17	1"-11 1/2	1-1/16"-12	51.5	22.0	19.0	3/4"	
JN1M-16-21	1"-11 1/2	1-5/16"-12	58.5	23.0	24.0	1"	
JN1M-16-26	1"-11 1/2	1-5/8"-12				1-1/4"	
JN1M-20-21	1-1/4"-11 1/2	1-5/16"-12				1"	
JN1M-20-26	1-1/4"-11 1/2	1-5/8"-12	62.0	24.5	24.5	1-1/4"	
JN1M-24-26	1-1/2"-11 1/2	1-5/8"-12				1-1/4"	
JN1M-24-30	1-1/2"-11 1/2	1-7/8"-12				1-1/2"	
JN1M-32-40	2" - 11 1/2	2-1/2"-12				2"	

Adaptors

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BSPT x JIC NIPPLE

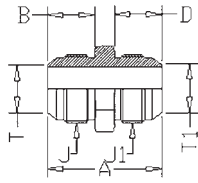
PART NO.	THRD F BSPT	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			A	B	D	inch	
JB1M-02-07	1/8" - 28	7/16" - 20	29.0	14.0	8	1/4"	
JB1M-02-08	1/8" - 28	1/2" - 20				5/16"	
JB1M-02-09	1/8" - 28	9/16" - 18	33.0	14.0	8	3/8"	
JB1M-04-07	1/4" - 19	7/16" - 20	33.0	14.0	12	1/4"	
JB1M-04-08	1/4" - 19	1/2" - 20				5/16"	
JB1M-04-09	1/4" - 19	9/16" - 18	33.5	14.0	12	3/8"	
JB1M-04-12	1/4" - 19	3/4" - 16	36.5	17.0	12	1/2"	
JB1M-06-07	3/8" - 19	7/16" - 20				1/4"	
JB1M-06-08	3/8" - 19	1/2" - 20				5/16"	
JB1M-06-09	3/8" - 19	9/16" - 18	33.5	14.0	12	3/8"	
JB1M-06-12	3/8" - 19	3/4" - 16	36.5	17.0	12	1/2"	
JB1M-06-14	3/8" - 19	7/8" - 14	41.0	19.5	12	5/8"	
JB1M-06-17	3/8" - 19	1-1/16"-12				3/4"	
JB1M-08-07	1/2" - 14	7/16" - 20				1/4"	
JB1M-08-09	1/2" - 14	9/16" - 18	37.5	14.0	14	3/8"	
JB1M-08-12	1/2" - 14	3/4" - 16	40.5	17.0	14	5/8"	
JB1M-08-14	1/2" - 14	7/8" - 14	43.0	19.5	14	5/8"	
JB1M-08-17	1/2" - 14	1-1/16"-12	47.5	22.0	14	3/4"	
JB1M-12-09	3/4" - 14	9/16" - 18				3/8"	
JB1M-12-12	3/4" - 14	3/4" - 16	42.5	17.0	16	1/2"	
JB1M-12-14	3/4" - 14	7/8" - 14	47.0	19.5	16	5/8"	
JB1M-12-17	3/4" - 14	1-1/16"-12	49.5	22.0	16	3/4"	
#JB1M-12-19	3/4" - 14	1-3/16"-12				7/8"	
JB1M-12-21	3/4" - 14	1-5/16"-12	50.5	23.0	16	1"	
JB1M-16-12	1" - 11	3/4" - 14				1/2"	
#JB1M-16-14	1" - 11	7/8" - 14				5/8"	
JB1M-16-17	1" - 11	1-1/16"-12	51.5	22.0	18	3/4"	
JB1M-16-21	1" - 11	1-5/16"-12	52.5	23.0	18	1"	
JB1M-16-26	1" - 11	1-5/8" - 12	55.5	24.5	18	1-1/4"	
JB1M-20-17	1-1/4" - 11	1-1/16"-12				3/4"	
JB1M-20-21	1-1/4" - 11	1-5/16"-12	56.0	24.5	20	1"	
JB1M-20-26	1-1/4" - 11	1-5/8" - 12	57.5	24.5	20	1-1/4"	
JB1M-20-30	1-1/4" - 11	1-7/8" - 12				1-1/2"	
JB1M-24-21	1-1/2" - 11	1-5/16"-12				1"	
JB1M-24-26	1-1/2" - 11	1-5/8" - 12	57.5	24.5	20	1-1/4"	
JB1M-24-30	1-1/2" - 11	1-7/8" - 12	62.5	27.5	29	1-1/2"	
JB1M-32-40	2" - 11	2-1/2" - 12				2"	

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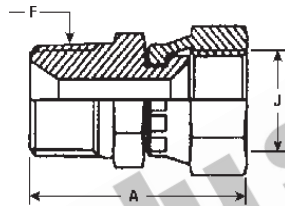
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ADAPTORS



JIC x JIC NIPPLE

PART NO.	THRD J	THRD J	DIMENSIONS mm		TUBE SIZE	
			A	B	inch	inch
J1M-07-07	7/16" - 20	7/16" - 20	34.5	14.0	1/4"	1/4"
J1M-08-08	1/2" - 20	1/2" - 20			5/16"	5/16"
J1M-09-07	9/16" - 18	7/16" - 20			3/8"	1/4"
J1M-09-09	9/16" - 18	9/16" - 18	35.5	14.0	3/8"	3/8"
J1M-12-09	3/4" - 16	9/16" - 18			1/2"	3/8"
J1M-12-12	3/4" - 16	3/4" - 16	41.0	17.0	1/2"	1/2"
J1M-14-09	7/8" - 14	9/16" - 18			5/8"	3/8"
J1M-14-12	7/8" - 14	3/4" - 16			5/8"	1/2"
J1M-14-14	7/8" - 14	7/8" - 14	47.5	19.5	5/8"	5/8"
J1M-17-12	1-1/16"-12	3/4" - 16			3/4"	1/2"
J1M-17-14	1-1/16"-12	7/8" - 14			3/4"	5/8"
J1M-17-17	1-1/16"-12	1-1/16"-12	55.0	22.0	3/4"	3/4"
J1M-21-14	1-5/16"-12	7/8" - 14			1"	5/8"
J1M-21-17	1-5/16"-12	1-1/16"-12			1"	3/4"
J1M-21-21	1-5/16"-12	1-5/16"-12	57.0	23.0	1"	1"
J1M-26-21	1-5/8" - 12	1-5/16"-12			1-1/4"	1"
J1M-26-26	1-5/8" - 12	1-5/8" - 12	61.5	24.5	1-1/4"	1-1/4"
J1M-30-30	1-7/8" - 12	1-7/8" - 12	69.5	27.5	1-1/2"	1-1/2"
J1M-40-40	2-1/2" - 12	2-1/2" - 12			2"	2"



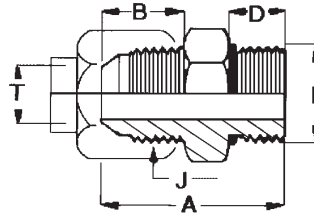
BSPT x JIC M/F UNION

PART NO.	THRD F	THRD J	DIMENSIONS mm		TUBE SIZE	
	MALE BSPT	FEMALE JIC	A		inch	
BJ1MF-02-07	1/8" - 28	7/16" - 20			1/4"	
BJ1MF-04-07	1/4" - 19	7/16" - 20			1/4"	
BJ1MF-04-09	1/4" - 19	9/16" - 18	41.0		3/8"	
BJ1MF-06-09	3/8" - 19	9/16" - 18	41.0		3/8"	
BJ1MF-06-12	3/8" - 19	3/4" - 16			1/2"	
BJ1MF-08-12	1/2" - 14	3/4" - 16	46.5		1/2"	
BJ1MF-08-14	1/2" - 14	7/8" - 14	49.5		5/8"	
BJ1MF-12-17	3/4" - 14	1-1/16"-12	53.0		3/4"	
BJ1MF-16-21	1" - 11	1-5/16"-12	59.5		1"	

Adaptors

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UN 'O' RING x JIC NIPPLE

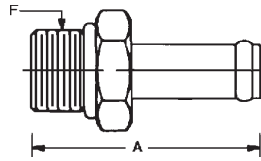
PART NO.	THRD F UNO	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			A	B	D	inch	
JU1M-07-07	7/16" - 20	7/16" - 20	31.0	14.0	9.5	1/4"	
JU1M-07-09	7/16" - 20	9/16" - 18	33.0	14.0	10.0	3/8"	
JU1M-08-08	1/2" - 20	1/2" - 20				5/16"	
JU1M-08-09	1/2" - 20	9/16" - 18	31.0	14.0	9.5	3/8"	
JU1M-09-07	9/16" - 18	7/16" - 20	33.0	14.0	10.0	1/4"	
JU1M-09-08	9/16" - 18	1/2" - 20				5/16"	
JU1M-09-09	9/16" - 18	9/16" - 18	33.0	14.0	10.0	3/8"	
JU1M-09-12	9/16" - 18	3/4" - 16	34.5	14.0	11.5	1/2"	
JU1M-09-14	9/16" - 18	7/8" - 14				5/8"	
JU1M-12-07	3/4" - 16	7/16" - 20				1/4"	
JU1M-12-09	3/4" - 16	9/16" - 18	34.5	14.0	11.5	3/8"	
JU1M-12-12	3/4" - 16	3/4" - 16	37.5	17.0	11.5	1/2"	
JU1M-12-14	3/4" - 16	7/8" - 14	40.5	19.5	11.5	5/8"	
JU1M-12-17	3/4" - 16	1-1/16"-12	45.0	22.0	11.5	3/4"	
JU1M-14-09	7/8" - 14	9/16" - 18	40.0	17.0	13.0	3/8"	
JU1M-14-12	7/8" - 14	3/4" - 16	40.5	17.0	13.0	1/2"	
JU1M-14-14	7/8" - 14	7/8" - 14	43.0	19.5	13.0	5/8"	
JU1M-14-17	7/8" - 14	1-1/16"-12	46.5	22.0	13.0	3/4"	
JU1M-14-21	7/8" - 14	1-5/16"-12				1"	
JU1M-17-09	1-1/16"-12	9/16" - 18				3/8"	
JU1M-17-12	1-1/16"-12	3/4" - 16	45.0	17.0	15.5	1/2"	
JU1M-17-14	1-1/16"-12	7/8" - 14	46.5	22.0	13.0	5/8"	
JU1M-17-17	1-1/16"-12	1-1/16"-12	50.0	22.0	15.5	3/4"	
JU1M-17-21	1-1/16"-12	1-5/16"-12	51.0	23.0	15.5	1"	
JU1M-17-26	1-1/16"-12	1-5/8" - 12				1-1/4"	
JU1M-21-12	1-5/16"-12	3/4" - 16				1/2"	
JU1M-21-14	1-5/16"-12	7/8" - 14				5/8"	
JU1M-21-17	1-5/16"-12	1-1/16"-12	51.0	22.0	15.5	3/4"	
JU1M-21-21	1-5/16"-12	1-5/16"-12	52.0	23.0	15.5	1"	
JU1M-21-26	1-5/16"-12	1-5/8" - 12	52.0	23.0	15.5	1-1/4"	
JU1M-26-17	1-5/8" - 12	1-1/16"-12				3/4"	
JU1M-26-21	1-5/8" - 12	1-5/16"-12	52.0	23.0	15.5	1"	
JU1M-26-26	1-5/8" - 12	1-5/8" - 12	55.0	24.5	15.5	1-1/4"	
JU1M-26-30	1-5/8" - 12	1-7/8" - 12	60.0	27.5	15.5	1-1/2"	
JU1M-30-26	1-7/8" - 12	1-5/8" - 12	60.0	27.5	15.5	1-1/4"	
JU1M-30-30	1-7/8" - 12	1-7/8" - 12	60.0	27.5	15.5	1-1/2"	

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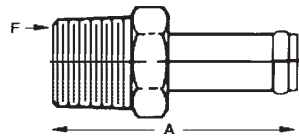
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ADAPTORS



UN 'O' RING x LP HOSE TAIL

PART NO.	THRD F	HOSE SIZE	DIMENSIONS mm			
			A			
#UH1M-14-12	7/8" - 14	3/4"				
#UH1M-14-16	7/8" - 14	1"				
#UH1M-17-12	1-1/16"-12	3/4"				
UH1M-17-16	1-1/16"-12	1"	62.7			
UH1M-17-20	1-1/16"-12	1-1/4"				
UH1M-21-16	1-5/16"-12	1"	62.7			
UH1M-21-20	1-5/16"-12	1-1/4"	62.7			
UH1M-21-24	1-5/16"-12	1-1/2"				
UH1M-26-20	1-5/8" - 12	1-1/4"	62.7			
UH1M-26-24	1-5/8" - 12	1-1/2"	62.7			



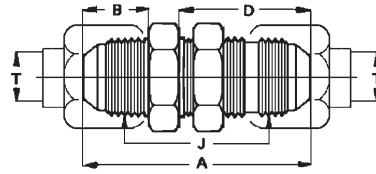
BSPT x LP HOSE TAIL

PART NO.	THRD F	HOSE SIZE	DIMENSIONS mm			
			A			
BH1M-08-12	1/2" - 12	3/4"				
BH1M-12-12	3/4" - 14	3/4"	65			
BH1M-12-16	3/4" - 14	1"	72			
BH1M-12-20	3/4" - 14	1-1/4"	68			
BH1M-16-12	1" - 11	3/4"				
BH1M-16-16	1" - 11	1"	67			
BH1M-16-20	1" - 11	1-1/4"	73			
BH1M-16-24	1" - 11	1-1/2"	72			
BH1M-20-16	1-1/4" - 11	1"	74			
BH1M-20-20	1-1/4" - 11	1-1/4"	75			
BH1M-20-24	1-1/4" - 11	1-1/2"	75			
BH1M-24-20	1-1/2" - 11	1-1/4"	75			
BH1M-24-24	1-1/2" - 11	1-1/2"	78			
BH1M-32-32	2" - 11	2"	95			

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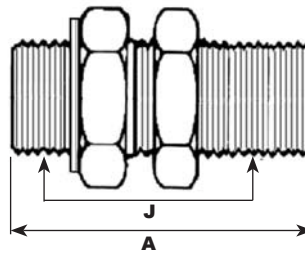
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JIC x JIC BULKHEAD NIPPLE

PART NO.	THRD J	DIMENSIONS mm			TUBE SIZE	
		A	B	D	inch	
J10M-07-07	7/16" - 20	52.5	14.0	31.5	1/4"	
J10M-08-08	1/2" - 20				5/16"	
J10M-09-09	9/16"-18	55.5	14.0	35.5	3/8"	
J10M-12-12	3/4" - 16	62.0	17.0	37.5	1/2"	
J10M-14-14	7/8" - 14	69.5	19.5	41.0	5/8"	
J10M-17-17	1-1/16"-12	78.5	22.0	45.5	3/4"	
J10M-21-21	1-5/16"-12	80.0	23.0	45.5	1"	
J10M-26-26	1-5/8" - 12				1-1/4"	
J10M-30-30	1-7/8" - 12				1-1/2"	



BSPP BULKHEAD NIPPLE

PART NO.	THRD J	DIMENSIONS mm			TUBE SIZE	
		A	B	D	inch	
B10M-04-04	1/4" - 19	47.0				
B10M-06-06	3/8" - 19	50.0				
B10M-08-08	1/2" - 14	59.0				
B10M-12-12	3/4" - 14	61.0				
B10M-16-16	1" - 11	74.0				
B10M-20-20	1-1/4"-11	71.0				
B10M-24-24	1-1/2"-11	86.0				

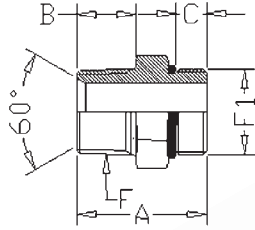
BONDED SEAL INCLUDED

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Adaptors

ADAPTORS



UN 'O' RING x BSPT NIPPLE

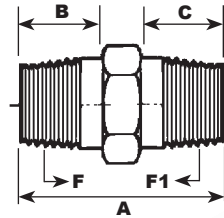
PART NO.	THRD F1 UNO	THRD F BSPT	DIMENSIONS mm		
			A	B	C
BU1M-07-04	7/16" - 20	1/4" - 19	28.6	13	9.1
BU1M-09-04	9/16" - 18	1/4" - 19	30.0	11	10.0
BU1M-09-06	9/16" - 18	3/8" - 19			
BU1M-09-08	9/16" - 18	1/2" - 14			
BU1M-12-04	3/4" - 16	1/4" - 19			
BU1M-12-06	3/4" - 16	3/8" - 19	33.5	13	11.5
BU1M-12-08	3/4" - 16	1/2" - 14	36.0	15	11.5
BU1M-12-12	3/4" - 16	3/4" - 14			
BU1M-14-04	7/8" - 14	1/4" - 19			
BU1M-14-06	7/8" - 14	3/8" - 19			
BU1M-14-08	7/8" - 14	1/2" - 14	38.5	15	13.0
BU1M-14-12	7/8" - 14	3/4" - 14	42.2	18	13.0
BU1M-17-08	1-1/16"-12	1/2" - 14	43.0	15	15.5
BU1M-17-12	1-1/16"-12	3/4" - 14	46.0	18	15.5
BU1M-17-16	1-1/16"-12	1" - 11	48.0	20	15.5
BU1M-21-12	1-5/16"-12	3/4" - 14	47.0	18	15.5
BU1M-21-16	1-5/16"-12	1" - 11	49.0	20	15.5
BU1M-21-20	1-5/16"-12	1-1/4" - 11	50.5	20	15.5
BU1M-26-16	1-5/8" - 12	1" - 11			
BU1M-26-20	1-5/8" - 12	1-1/4" - 11	50.5	20	15.5
BU1M-26-24	1-5/8" - 12	1-1/2" - 11			

Adaptors

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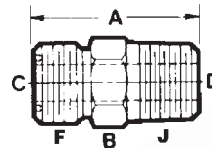
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Adaptors



NPT x NPT NIPPLE

PART NO.	THRD F	THRD F1	DIMENSIONS mm					
			A	B	C			
N1M-02-02	1/8" - 28	1/8" - 28	27	10	10			
N1M-04-02	1/4" - 18	1/8" - 28						
N1M-04-04	1/4" - 18	1/4" - 18	28	11	11			
N1M-06-04	3/8" - 18	1/4" - 18						
N1M-06-06	3/8" - 18	3/8" - 18	32	13	13			
N1M-08-06	1/2" - 14	3/8" - 18						
N1M-08-08	1/2" - 14	1/2" - 14	37	15	15			
N1M-12-12	3/4" - 14	3/4" - 14	44	18	18			
N1M-16-12	1" - 11 1/2	3/4" - 14						
N1M-16-16	1" - 11 1/2	1" - 11 1/2	49	20	20			
N1M-20-16	1-1/4" - 11 1/2	1" - 11 1/2						
N1M-20-20	1-1/4" - 11 1/2	1-1/4" - 11 1/2						
N1M-24-24	1-1/2" - 11 1/2	1-1/2" - 11 1/2						
N1M-32-32	2" - 11 1/2	2" - 11 1/2						



'O' RING FACE SEAL x BSPT NIPPLE

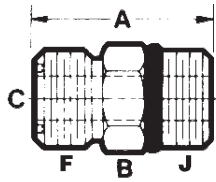
PART NO.	THRD F ORFS	THRD J BSPT	DIMENSIONS mm				TUBE O.D.	
			A	B	C	D		
OB1M-04-09	9/16" - 18	1/4" - 19	31.2	16.0	4.3	7.1	1/4"	
OB1M-04-11	11/16" - 16	1/4" - 19					3/8"	
OB1M-06-11	11/16" - 16	3/8" - 19	33.0	19.0	6.8	9.6	3/8"	
OB1M-06-13	13/16" - 16	3/8" - 19					1/2"	
OB1M-08-13	13/16" - 16	1/2" - 14	40.9	22.3	9.6	9.6	1/2"	
OB1M-08-19	1-3/16" - 12	1/2" - 14					3/4"	
OB1M-12-19	1-3/16" - 12	3/4" - 14	46.7	33.3	15.5	17.5	3/4"	
OB1M-12-23	1-7/16" - 12	3/4" - 14					1"	
OB1M-16-23	1-7/16" - 12	1" - 11	52.1	39.6	20.6	22.3	1"	

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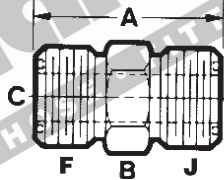
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ADAPTORS



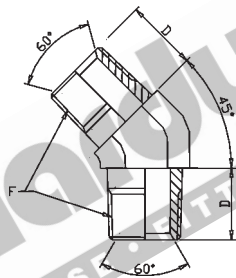
'O' RING FACE SEAL x UNO 'O' RING

PART NO.	THRD F ORFS	THRD J UNO	DIMENSIONS mm			TUBE O.D.
			A	B	C	
OU1M-07-09	9/16" - 18	7/16" - 20	28.7	16.0	4.3	1/4"
OU1M-09-09	9/16" - 18	9/16" - 18				
OU1M-09-11	11/16" - 16	9/16" - 18	31.7	19.0	6.8	3/8"
OU1M-12-13	13/16" - 16	3/4" - 16	36.6	22.3	9.6	1/2"
OU1M-17-19	1-3/16" - 12	1-1/16" - 12	48.5	31.7	15.5	3/4"
OU1M-21-23	1-7/16" - 12	1-5/16" - 12	50.3	38.1	20.6	1"



'O' RING FACE SEAL x 'O' RING FACE SEAL

PART NO.	THRD F	THRD J	DIMENSIONS mm			TUBE O.D.
			A	B	C	
O1M-09-09	9/16" - 18	9/16" - 18	27.4	16.0	4.3	1/4"
O1M-11-11	11/16" - 16	11/16" - 16	31.0	19.0	6.8	3/8"
O1M-13-13	13/16" - 16	13/16" - 16	35.3	22.3	9.6	1/2"
O1M-16-13	1" - 14	13/16" - 16				5/8"-1/2"
O1M-16-16	1" - 14	1" - 14				5/8"
O1M-19-19	1-3/16" - 12	1-3/16" - 12	47.2	31.7	15.5	3/4"
O1M-23-23	1-7/16" - 12	1-7/16" - 12	49.3	38.1	20.6	1"



BSPT x BSPT 45° ELBOW

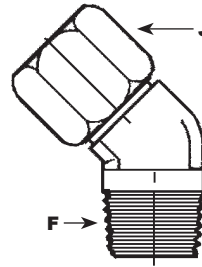
PART NO.	THRD F	DIMENSIONS mm		
		D		
B4M-02-02	1/8" - 28			
B4M-04-04	1/4" - 19	21.0		
B4M-06-06	3/8" - 19	25.0		
B4M-08-08	1/2" - 14	28.0		
B4M-12-12	3/4" - 14	32.5		
B4M-16-16	1" - 11	37.0		

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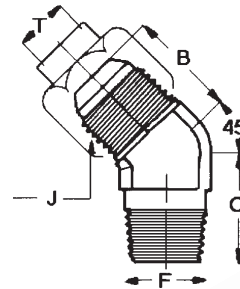
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Adaptors



BSPT x BSPP M/F SWIVEL 45° ELBOW

PART NO.	THRD F MALE BSPT	THRD J FEMALE BSPP	DIMENSIONS mm			TUBE SIZE	
			B	C	inch		
B4MFS-04-04	1/4" - 19	1/4" - 19					
B4MFS-06-06	3/8" - 19	3/8" - 19					
B4MFS-08-08	1/2" - 14	1/2" - 14					
B4MFS-12-12	3/4" - 14	3/4" - 14					
B4MFS-16-16	1" - 16	1" - 16					



BSPT x JIC 45° ELBOW

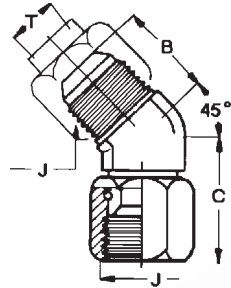
PART NO.	THRD F BSPT	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			B	C	inch		
JB4M-02-07	1/8" - 28	7/16" - 20	18.0	16.0	1/4"		
JB4M-04-07	1/4" - 18	7/16" - 20			1/4"		
#JB4M-04-08	1/4" - 18	1/2" - 20			5/16"		
JB4M-04-09	1/4" - 18	9/16" - 18	21.0	21.5	3/8"		
JB4M-06-09	3/8" - 18	9/16" - 18			3/8"		
JB4M-06-12	3/8" - 18	3/4" - 16	25.0	24.0	1/2"		
JB4M-08-12	1/2" - 14	3/4" - 16	25.5	29.5	1/2"		
JB4M-08-14	1/2" - 14	7/8" - 14	28.0	29.5	5/8"		
#JB4M-08-17	1/2" - 14	1-1/16"-12	32.5	30.5	3/4"		
JB4M-12-14	3/4" - 14	7/8" - 14			5/8"		
JB4M-12-17	3/4" - 14	1-1/16"-12	32.5	30.5	3/4"		
JB4M-16-21	1" - 11	1-5/16"-12	37.0	37.5	1"		
JB4M-20-26	1-1/4"-11	1-5/8" - 12	40.5	42.5	1-1/4"		

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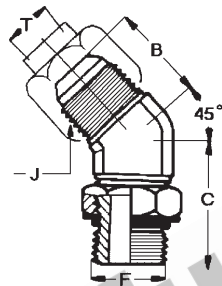
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ADAPTORS



JIC x JIC M/F 45° ELBOW

PART NO.	THRD J	DIMENSIONS mm		TUBE SIZE	
		B	C	inch	
J4MFS-07-07	7/16"-20	18.0	24.5	1/4"	
J4MFS-09-09	9/16"-18	21.0	28.5	3/8"	
J4MFS-12-12	3/4"-16	25.0	32.0	1/2"	
J4MFS-14-14	7/8"-14	28.0	37.0	5/8"	
J4MFS-17-17	1-1/16"-12	32.5	38.5	3/4"	
J4MFS-21-21	1-5/16"-12	37.0	45.0	1"	
J4MFS-26-26	1-5/8"-12	40.5	51.5	1-1/4"	
J4MFS-30-30	1-7/8"-12	57.0	60.0	1-1/2"	



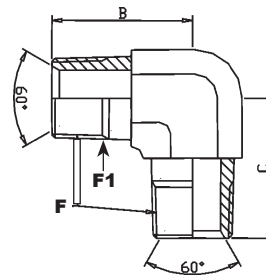
UN 'O' RING x JIC 45° ELBOW

PART NO.	THRD F UNO	THRD J JIC	DIMENSIONS mm		TUBE SIZE	
			B	C	inch	
JU4M-07-07	7/16"-20	7/16"-20			1/4"	
JU4M-09-09	9/16"-18	9/16"-18	21.0	29.0	3/8"	
JU4M-12-09	3/4"-16	9/16"-18	22.0	33.0	3/8"	
JU4M-12-12	3/4"-16	3/4"-16	25.0	33.0	1/2"	
JU4M-12-14	3/4"-16	7/8"-14	28.0	35.0	5/8"	
JU4M-14-12	7/8"-14	3/4"-16	25.5	38.5	1/2"	
JU4M-14-14	7/8"-14	7/8"-14	28.0	38.5	5/8"	
JU4M-14-17	7/8"-14	1-1/16"-12	32.5	40.5	3/4"	
JU4M-17-14	1-1/16"-12	7/8"-14	30.0	44.0	5/8"	
JU4M-17-17	1-1/16"-12	1-1/16"-12	32.5	44.0	3/4"	
JU4M-21-21	1-5/16"-12	1-5/16"-12	37.0	47.0	1"	

Adaptors

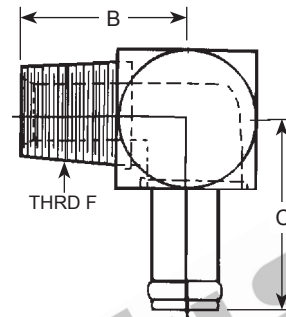
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BSPT x BSPT 90° ELBOW

PART NO.	THRD F	THRD F1	DIMENSIONS mm					
			B	C				
B9M-02-02	1/8"-28	1/8"-28	25	25				
B9M-04-02	1/4"-19	1/8"-28	27	25				
B9M-04-04	1/4"-19	1/4"-19	27	22				
B9M-06-04	3/8"-19	1/4"-19	30	28				
B9M-06-06	3/8"-19	3/8"-19	30	25				
B9M-08-04	1/2"-14	1/4"-19						
B9M-08-06	1/2"-14	3/8"-19	37	33				
B9M-08-08	1/2"-14	1/2"-14	34	32				
B9M-12-08	3/4"-14	1/2"-14	40	35				
B9M-12-12	3/4"-14	3/4"-14	40	34				
B9M-16-12	1"-11	3/4"-14	52	42				
B9M-16-16	1"-11	1"-11	51	50				
B9M-20-16	1-1/4"-11	1"-11						
B9M-20-20	1-1/4"-11	1-1/4"-11	61	61				
B9M-24-24	1-1/2"-11	1-1/2"-11						



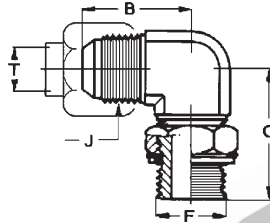
BSPT x LP HOSE TAIL 90° ELBOW

PART NO.	THRD F MALE	HOSE SIZE	DIMENSIONS mm					
			B	C				
BH9M-08-12	1/2"-14	3/4"	34	63				
BH9M-12-12	3/4"-14	3/4"	41	53				
BH9M-12-16	3/4"-14	1"	41	53				
BH9M-12-20	3/4"-14	1 1/4"	48	67				
BH9M-16-12	1" -11	3/4"	51	58				
BH9M-16-16	1" -11	1"	51	60				
BH9M-16-20	1" -11	1 1/4"	54	67				
BH9M-16-24	1" -11	1 1/2"	54	68				
BH9M-20-16	1-1/4"-11	1"	62	66				
BH9M-20-20	1-1/4"-11	1 1/4"	62	67				
BH9M-20-24	1-1/4"-11	1 1/2"	62	68				
BH9M-24-20	1-1/2"-11	1 1/4"	67	68				
BH9M-24-24	1-1/2"-11	1 1/2"	67	68				
BH9M-32-24	2"-11	1 1/2"						
BH9M-32-32	2"-11	2"						

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ADAPTORS



BSPP x JIC 90° ELBOW

PART NO.	THRD F BSPP	THRD J JIC	DIMENSIONS mm		TUBE SIZE	
			B	C	inch	
JP9M-02-07	1/8"-28	7/16"-20			1/4"	
JP9M-02-09	1/8"-28	9/16"-18			3/8"	
JP9M-04-07	1/4"-19	7/16"-20	27.0	31.5	1/4"	
JP9M-04-09	1/4"-19	9/16"-18	27.0	31.5	3/8"	
JP9M-06-07	3/8"-19	7/16"-20			1/4"	
JP9M-06-09	3/8"-19	9/16"-18	28.5	36.5	3/8"	
JP9M-06-12	3/8"-19	3/4"-16	31.5	36.5	1/2"	
JP9M-06-14	3/8"-19	7/8"-14			5/8"	
JP9M-08-09	1/2"-12	9/16"-18			3/8"	
JP9M-08-12	1/2"-12	3/4"-16	34.0	43.0	1/2"	
JP9M-08-14	1/2"-12	7/8"-14	36.5	43.0	5/8"	
JP9M-08-17	1/2"-12	1-1/16"-12	42.0	45.5	3/4"	
JP9M-12-12	3/4"-12	3/4"-16	37.0	49.0	1/2"	
JP9M-12-14	3/4"-12	7/8"-14			5/8"	
JP9M-12-17	3/4"-12	1-1/16"-12	42.0	45.5	3/4"	
JP9M-12-21	3/4"-12	1-5/16"-12			1"	
JP9M-16-17	1"-11	1-1/16"-12			3/4"	
JP9M-16-21	1"-11	1-5/16"-12	46.0	52.0	1"	
JP9M-16-26	1"-11	15/8"-12	52.0	57.0	1-1/4"	
JP9M-20-21	1-1/4"-11	1-5/16"-12	52.0	57.0	1"	
JP9M-20-26	1-1/4"-11	1-5/8"-12	52.0	57.0	1-1/4"	

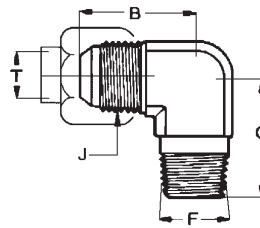
SEAL INCLUDED

INDENT ONLY

Adaptors

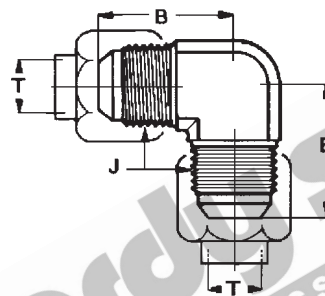
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NPT x JIC 90° ELBOW

PART NO.	THRD F NPT	THRD J JIC	DIMENSIONS mm		TUBE SIZE	
			B	C	inch	
JN9M-02-07	1/8"-27	7/16"-20	22.5	19.5	1/4"	
JN9M-02-08	1/8"-27	1/2"-20			5/16"	
JN9M-02-09	1/8"-27	9/16"-18	27.0	23.5	3/8"	
JN9M-04-07	1/4"-18	7/16"-20	27.0	27.5	1/4"	
JN9M-04-08	1/4"-18	1/2"-20			5/16"	
JN9M-04-09	1/4"-18	9/16"-18	27.0	27.5	3/8"	
JN9M-04-12	1/4"-18	3/4"-16	31.5	31.0	1/2"	
JN9M-06-09	3/8"-18	9/16"-18	28.5	31.0	3/8"	
JN9M-06-12	3/8"-18	3/4"-16	31.5	31.0	1/2"	
JN9M-06-14	3/8"-18	7/8"-14	36.5	32.0	5/8"	
JN9M-08-09	1/2"-14	9/16"-18	31.0	37.0	3/8"	
JN9M-08-12	1/2"-14	3/4"-16	34.0	37.0	1/2"	
JN9M-08-14	1/2"-14	7/8"-14	36.5	37.0	5/8"	
JN9M-08-17	1/2"-14	1-1/16"-12	42.0	40.5	3/4"	
JN9M-12-12	3/4"-14	3/4"-16	37.0	40.5	1/2"	
JN9M-12-14	3/4"-14	7/8"-14	39.5	40.5	5/8"	
JN9M-12-17	3/4"-14	1-1/16"-12	42.0	40.5	3/4"	
JN9M-12-21	3/4"-14	1-5/16"-12	46.0	45.0	1"	
JN9M-16-21	1"-11/2	1-5/16"-12	46.0	50.0	1"	
JN9M-16-26	1"-11/2	1-5/8"-12	52.0	59.0	1-1/4"	
JN9M-20-26	1-1/4"-11 1/2	1-5/8"-12	52.0	60.0	1-1/4"	



JIC x JIC 90° ELBOW

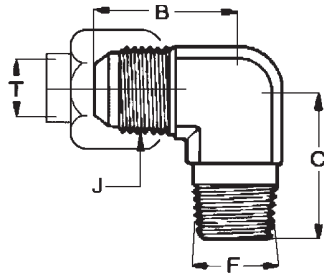
PART NO.	THRD J	THRD J1	DIMENSIONS mm		TUBE SIZE	
			B		inch	
J9M-07-07	7/16"-20		22.5		1/4"	
J9M-08-08	1/2"-20				5/16"	
J9M-09-09	9/16"-18		27.0		3/8"	
J9M-12-12	3/4"-16		31.5		1/2"	
J9M-14-12	7/8"-14	3/4"-16			5/8"-1/2"	
J9M-14-14	7/8"-14		36.5		5/8"	
J9M-17-14	1-1/16"-12	7/8"-14			3/4"-5/8"	
J9M-17-17	1-1/16"-12		42.0		3/4"	
J9M-21-21	1-5/16"-12		46.0		1"	
J9M-26-26	1-5/8"-12		52.0		1-1/4"	

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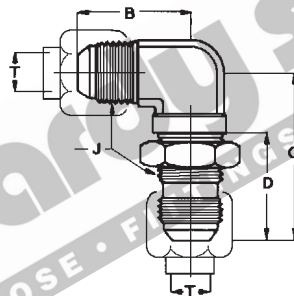
INDENT ONLY

ADAPTORS



BSPT x JIC 90° ELBOW

PART NO.	THRD F BSPT	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			B	C		inch	
JB9M-02-07	1/8"-28	7/16"-20	22.5	19.5		1/4"	
JB9M-02-09	1/8"-28	9/16"-18				3/8"	
JB9M-02-08	1/8"-28	1/2"-20				5/16"	
JB9M-04-07	1/4"-19	7/16"-20	27.0	27.5		1/4"	
JB9M-04-08	1/4"-19	1/2"-20				5/16"	
JB9M-04-09	1/4"-19	9/16"-18	27.0	27.5		3/8"	
JB9M-04-12	1/4"-19	3/4"-16	31.5	31.0		1/2"	
JB9M-06-07	3/8"-19	7/16"-20				1/4"	
JB9M-06-09	3/8"-19	9/16"-18	28.5	31.0		3/8"	
JB9M-06-12	3/8"-19	3/4"-16	31.5	31.0		1/2"	
JB9M-06-14	3/8"-19	7/8"-14	36.5	32.0		5/8"	
JB9M-08-09	1/2"-14	9/16"-18	31.0	37.0		3/8"	
JB9M-08-12	1/2"-14	3/4"-16	34.0	37.0		1/2"	
JB9M-08-14	1/2"-14	7/8"-14	36.5	37.0		5/8"	
JB9M-08-17	1/2"-14	1-1/16"-12	42.0	40.5		3/4"	
JB9M-12-09	3/4"-14	9/16"-18				3/8"	
JB9M-12-12	3/4"-14	3/4"-14				1/2"	
JB9M-12-14	3/4"-14	7/8"-14	39.5	40.5		5/8"	
JB9M-12-17	3/4"-14	1-1/16"-12	42.0	40.5		3/4"	
JB9M-12-21	3/4"-14	1-5/16"-12	46.0	45.0		1"	
JB9M-16-17	1"-11	1-1/16"-12	45.0	50.0		3/4"	
JB9M-16-21	1"-11	1-5/16"-12	46	50		1"	
JB9M-16-26	1"-11	1-5/8"-12				1-1/4"	
JB9M-20-21	1-1/4"-11	1-5/16"-12				1"	
JB9M-20-26	1-1/4"-11	1-5/8"-12	52	60		1-1/4"	
JB9M-24-30	1-1/2"-11	1-7/8"-12				1-1/2"	



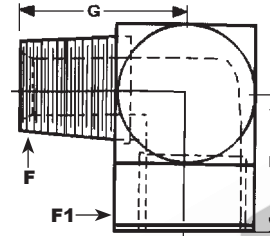
JIC x JIC BULKHEAD 90° ELBOW

PART NO.	THRD J	DIMENSIONS mm			TUBE SIZE	
		B	C	D	inch	
J90M-07-07	7/16"-20	24.5	40.5	28.5	1/4"	
J90M-09-09	9/16"-18	27.5	46.0	30.0	3/8"	
J90M-12-12	3/4"-16	34.5	53.5	35.0	1/2"	
J90M-14-14	7/8"-14	39.5	60.5	38.5	5/8"	
J90M-17-17	1-1/16"-12	45.0	68.0	42.5	3/4"	
J90M-21-21	1-5/16"-12	49.0	71.0	42.5	1"	

INDEXT ONLY

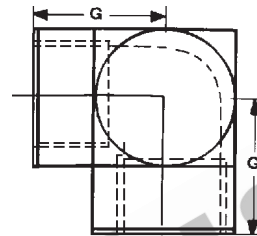
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BSPT x BSPT M/F 90° ELBOW

PART NO.	THRD F MALE	THRD F1 FEMALE	DIMENSIONS mm				
			G	H			
B9MF-02-02	1/8"-28	1/8"-28	23.0	16			
B9MF-04-04	1/4"-19	1/4"-19	27.0	22			
B9MF-06-06	3/8"-19	3/8"-19	31.5	22			
B9MF-06-08	3/8"-19	1/2"-14					
B9MF-08-06	1/2"-14	3/8"-19					
B9MF-08-08	1/2"-14	1/2"-14	36.0	32			
B9MF-12-12	3/4"-14	3/4"-14	42.0	37			
B9MF-16-16	1"-11	1"-11	46.0	42			
B9MF-20-20	1-1/4"-11	1-1/4"-11					



BSPT x BSPT F/F 90° ELBOW

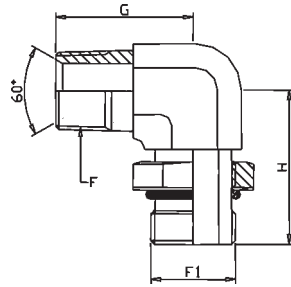
PART NO.	THRD F	DIMENSIONS mm				
		G				
B9F-02-02	1/8"-28					
B9F-04-04	1/4"-19	22				
B9F-06-06	3/8"-19	25				
B9F-08-08	1/2"-14	30				
B9F-12-12	3/4"-14	34				
B9F-16-16	1"-11	42				
B9F-20-20	1-1/4"-11					

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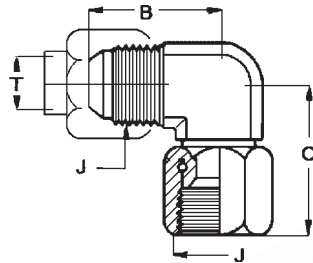
INDENT ONLY

ADAPTORS



UN 'O' RING x BSPT 90° ELBOW

PART NO.	THRD F1 UNO	THRD F BSPT	DIMENSIONS mm				
			G	H			
BU9M-09-04	9/16"-18	1/4"-19	27.0	31.5			
BU9M-09-06	9/16"-18	3/8"-19	31.5	33.5			
BU9M-12-06	3/4"-16	3/8"-19	31.5	36.5			
BU9M-12-08	3/4"-16	1/2"-14	36.5	39.5			
BU9M-14-06	7/8"-14	3/8"-19	34.0	43.0			
BU9M-14-08	7/8"-14	1/2"-14	36.0	43.0			
BU9M-14-12	7/8"-14	3/4"-14	42.0	45.5			
BU9M-17-08	1-1/16"-12	1/2"-14	39.5	49.0			
BU9M-17-12	1-1/16"-12	3/4"-14	42.0	49.0			
BU9M-21-16	1-5/16"-12	1"-11	46.0	52.0			



JICM x JICF 90° ELBOW

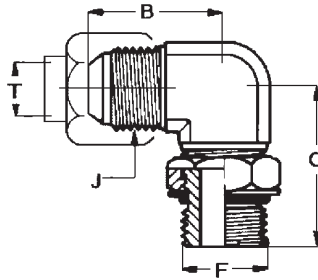
PART NO.	THRD J	DIMENSIONS mm		TUBE SIZE				
		B	C	inch				
J9MFS-07-07	7/16"-20	22.5	26.0	1/4"				
J9MFS-08-08	1/2"-20							
J9MFS-09-09	9/16"-18	27.0	31.0	3/8"				
J9MFS-12-12	3/4"-16	31.5	31.0	1/2"				
J9MFS-14-14	7/8"-14	36.5	42.0	5/8"				
J9MFS-17-17	1-1/16"-12	42.0	45.5	3/4"				
J9MFS-21-21	1-5/16"-12	46.0	51.5	1"				
J9MFS-26-26	1-5/8"-12	52.0	59.0	1-1/4"				
J9MFS-30-30	1-7/8"-12	59.0	67.0	1-1/2"				

Adaptors

INDENT ONLY

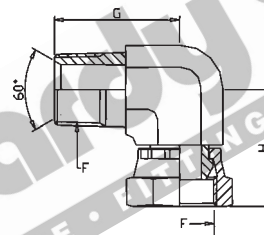
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UN 'O' RING x JICM 90° ELBOW

PART NO.	THRD F UNO	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			B	C	inch		
JU9M-07-07	7/16"-20	7/16"-20	22.5	26.0	1/4"		
JU9M-07-09	7/16"-20	9/16"-18			3/8"		
JU9M-08-09	1/2"-20	9/16"-18			3/8"		
JU9M-09-07	9/16"-18	7/16"-20	27.0	31.5	1/4"		
JU9M-09-09	9/16"-18	9/16"-18	27.0	31.5	3/8"		
JU9M-09-12	9/16"-18	3/4"-16			1/2"		
JU9M-12-09	3/4"-16	9/16"-18	28.5	36.5	3/8"		
JU9M-12-12	3/4"-16	3/4"-16	31.5	31.5	1/2"		
JU9M-12-14	3/4"-16	7/8"-14	36.5	39.5	5/8"		
JU9M-12-17	3/4"-16	1-1/16"-12	42.0	42.0	3/4"		
JU9M-14-09	7/8"-14	9/16"-18			3/8"		
JU9M-14-12	7/8"-14	3/4"-16	34.0	43.0	1/2"		
JU9M-14-14	7/8"-14	7/8"-14	36.5	43.0	5/8"		
JU9M-14-17	7/8"-14	1-1/16"-12	42.0	45.5	3/4"		
#JU9M-17-09	1-1/16"-12	9/16"-18			3/8"		
JU9M-17-12	1-1/16"-12	3/4"-16	37.0	49.0	1/2"		
JU9M-17-14	1-1/16"-12	7/8"-14	39.5	49.0	5/8"		
JU9M-17-17	1-1/16"-12	1-1/16"-12	42.0	49.0	3/4"		
JU9M-17-21	1-1/16"-12	1-5/16"-12	46.0	52.0	1"		
JU9M-21-17	1-5/16"-12	1-1/16"-12	44.5	52.0	3/4"		
JU9M-21-21	1-5/16"-12	1-5/16"-12	46.0	52.0	1"		
JU9M-21-26	1-5/16"-12	1-5/8"-12			1-1/4"		
JU9M-26-26	1-5/8"-12	1-5/8"-12	52.0	57.0	1-1/4"		
JU9M-30-30	1-7/8"-12	1-7/8"-12	59.0	61.0	1-1/2"		



BSPT x BSPP M/F 90° ELBOW

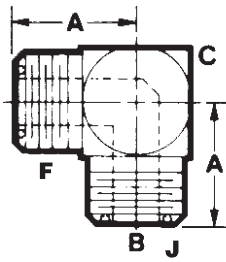
PART NO.	THRD F	DIMENSIONS mm				
		G				
B9MFS-02-02	1/8" - 28	19.8				
B9MFS-04-04	1/4"-19	27.0				
B9MFS-06-06	3/8"-19	31.5				
B9MFS-08-08	1/2"-14	36.5				
B9MFS-12-12	3/4"-14	42.0				
B9MFS-16-16	1"-11	46.0				

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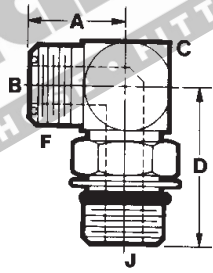
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ADAPTORS



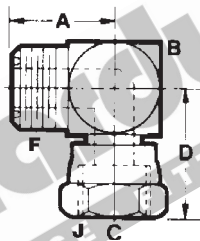
ORFS x ORFS 90° ELBOW

PART NO.	THRD F	THRD J	DIMENSIONS mm			TUBE O.D.		
			A	B	C			
O9M-09-09	9/16" - 18	9/16" - 18	21.8	4.3	16.0	1/4"		
O9M-11-11	11/16" - 16	11/16" - 16	24.9	6.8	19.0	3/8"		
O9M-13-13	13/16" - 16	13/16" - 16	27.9	9.6	22.3	1/2"		
O9M-19-19	1-3/16" - 12	1-3/16" - 12	37.3	15.5	35.0	3/4"		
O9M-23-23	1-7/16" - 12	1-7/16" - 12	41.6	19.8	41.4	1"		



ORFS x UNO 'O' RING 90° ELBOW

PART NO.	THRD F ORFS	THRD J UNO	DIMENSIONS mm				TUBE O.D.		
			A	B	C	D			
OU9M-07-09	9/16" - 18	7/16" - 20	21.8	4.3	16.0	32.5	1/4"		
OU9M-09-11	11/16" - 16	9/16" - 18	24.5	6.8	19.0	36.8	3/8"		
OU9M-12-13	13/16" - 16	3/4" - 16	28.7	9.6	22.3	40.4	1/2"		
OU9M-17-19	1-3/16" - 12	1-1/16" - 12	37.6	15.5	35.0	55.1	3/4"		
OU9M-21-23	1-7/16" - 12	1-5/16" - 12	41.6	20.6	41.4	59.9	1"		



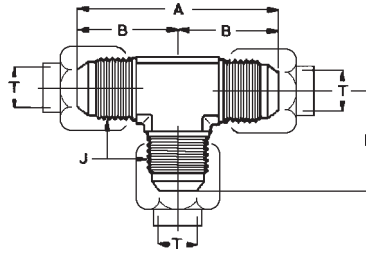
ORFS x ORFS M/F 90° ELBOW

PART NO.	THRD F	THRD J	DIMENSIONS mm				TUBE O.D.		
			A	B	C	D			
O9MFS-09-09	9/16" - 18	9/16" - 18	21.8	16.0	4.3	26.4	1/4"		
O9MFS-11-11	11/16" - 16	11/16" - 16	24.5	19.0	6.6	29.2	3/8"		
O9MFS-13-13	13/16" - 16	13/16" - 16	27.9	22.3	9.1	37.8	1/2"		
O9MFS-19-19	1-3/16" - 12	1-3/16" - 12	37.3	35.0	14.0	46.2	3/4"		
O9MFS-23-23	1-7/16" - 12	1-7/16" - 12	41.6	41.4	19.8	53.3	1"		

INDENT ONLY

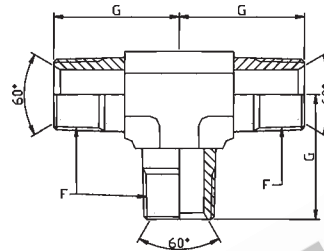
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JIC x JIC x JIC M/M/M TEE

PART NO.	THRD J	DIMENSIONS mm		TUBE SIZE	
		A	B	inch	
J5M-07-07-07	7/16"-20	45	22.5	1/4"	
J5M-08-08-08	1/2"-20			5/16"	
J5M-09-09-09	9/16"-18	54	27.0	3/8"	
J5M-12-12-12	3/4"-16	63	31.5	1/2"	
J5M-14-14-14	7/8"-14	73	36.5	5/8"	
J5M-17-17-17	1-1/16"-12	84	42.0	3/4"	
J5M-21-21-21	1-5/16"-12	92	46.0	1"	
J5M-26-26-26	1-5/8"-12	104	52.0	1-1/4"	



BSPT x BSPT x BSPT M/M/M TEE

PART NO.	THRD F	DIMENSIONS mm			
		G			
B5M-02-02-02	1/8" - 28	19.8			
B5M-04-04-04	1/4"-19	27.0			
B5M-06-06-06	3/8"-19	31.5			
B5M-08-08-08	1/2"-14	36.5			
B5M-12-12-12	3/4"-14	42.0			
B5M-16-16-16	1"-11	46.0			
B5M-20-20-20	1-1/4"-11				

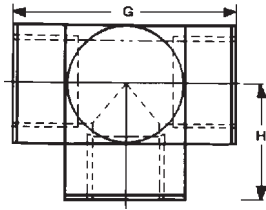
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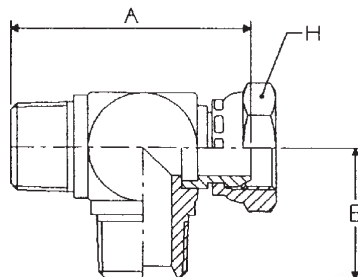
Adaptors

ADAPTORS



BSPT x BSPT x BSPT F/F/F TEE

PART NO.	THRD F	DIMENSIONS mm		
		G	H	
B5F-02-02-02	1/8" - 28	34	17	
B5F-04-04-04	1/4" - 19	39	24	
B5F-06-06-06	3/8" - 19	51	27	
B5F-08-08-08	1/2" - 14	63	31	
B5F-12-12-12	3/4" - 14	68	37	
B5F-16-16-16	1" - 11	85	42	
B5F-20-20-20	1-1/4" - 11	85	42	
B5F-24-24-24	1-1/2" - 11			



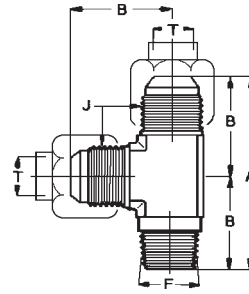
BSPT x BSPP x BSPT M/F/M TEE

PART NO.	THRD F	DIMENSIONS mm		
		A	B	H
B5FSM-02-02-02	1/8" - 28	43.6	19.8	15.9
B5FSM-04-04-04	1/4" - 19	57.5	27.7	19.1
B5FSM-06-06-06	3/8" - 19	63.0	31.0	22.2
B5FSM-08-08-08	1/2" - 14	74.8	37.3	27.0
B5FSM-12-12-12	3/4" - 14	86.7	40.4	31.8
B5FSM-16-16-16	1" - 11	100.0	50.5	41.3
B5FSM-20-20-20	1-1/4" - 11			

INDENT ONLY

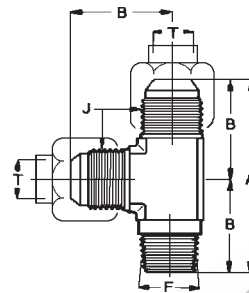
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JIC x BSPT x JIC M/M/M TEE

PART NO.	THRD J	THRD F	DIMENSIONS mm			TUBE SIZE	
			A	B	C	inch	
JB5M-07-02-07	7/16"-20	1/8"-28	42.0	22.5	19.5	1/4"	
JB5M-07-04-07	7/16"-20	1/4"-19				1/4"	
JB5M-09-04-09	9/16"-18	1/4"-19	54.5	27.0	27.5	3/8"	
JB5M-09-06-09	9/16"-18	3/8"-19				3/8"	
JB5M-12-06-12	3/4"-16	3/8"-19	62.5	31.5	31.0	1/2"	
JB5M-14-08-14	7/8"-14	1/2"-14	68.5	36.5	32.0	5/8"	
JB5M-17-12-17	1-1/16"-12	3/4"-14	82.5	42.0	40.5	3/4"	
JB5M-21-16-21	1-5/16"-12	1"-11	96.0	46.0	50.0	1"	



JIC x NPT x JIC M/M/M TEE

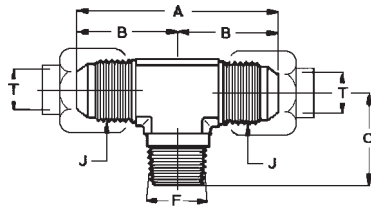
PART NO.	THRD J	THRD F	DIMENSIONS mm			TUBE SIZE	
			A	B	C	inch	
JN5M-07-02-07	7/16"-20	1/8"-27	42.0	22.5	19.5	1/4"	
#JN5M-07-04-07	7/16"-20	1/4"-18				1/4"	
JN5M-09-04-09	9/16"-18	1/4"-18	54.5	27.0	27.5	3/8"	
JN5M-12-06-12	3/4"-16	3/8"-18	62.5	31.5	31.0	1/2"	
#JN5M-14-08-14	7/8"-14	1/2"-14	68.5	36.5	32.0	5/8"	
#JN5M-17-12-17	1-1/16"-12	3/4"-14	82.5	42.0	40.5	3/4"	
#JN5M-21-16-21	1-5/16"-12	1"-11 1/2	96.0	46.0	50.0	1"	

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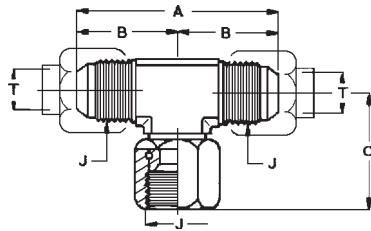
INDENT ONLY

ADAPTORS



JIC x JIC x BSPT M/M/M TEE

PART NO.	THRD J	THRD F	DIMENSIONS mm			TUBE SIZE	
			A	B	C	inch	
BJ5M-07-07-02	7/16"-20	1/8"-28	45	22.5	19.5	1/4"	
BJ5M-07-07-04	7/16"-20	1/4"-19	54	27.0	27.5	1/4"	
BJ5M-09-09-04	9/16"-18	1/4"-19	54	27.0	27.5	3/8"	
BJ5M-09-09-06	9/16"-18	3/8"-19	57	28.5	31.0	3/8"	
BJ5M-12-12-06	3/4"-16	3/8"-19	63	31.5	31.0	1/2"	
BJ5M-12-12-08	3/4"-16	1/2"-14	68	34.0	37.0	1/2"	
BJ5M-14-14-06	7/8"-14	3/8"-19				5/8"	
BJ5M-14-14-08	7/8"-14	1/2"-14	73	36.5	37.0	5/8"	
BJ5M-14-14-12	7/8"-14	3/4"-14				5/8"	
BJ5M-17-17-12	1-1/16"-12	3/4"-14	84	42.0	40.0	3/4"	
BJ5M-21-21-16	1-5/16"-11	1"-11	92	46.0	50.0	1"	



JIC x JIC x JIC M/M/F TEE

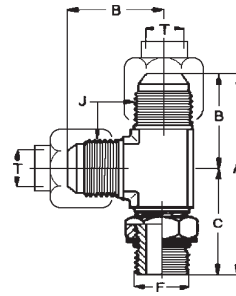
PART NO.	THRD J		DIMENSIONS mm			TUBE SIZE	
			A	B	C	inch	
J5MFS-07-07-07	7/16"-20		45	22.5	26.0	1/4"	
J5MFS-09-09-09	9/16"-18		54	27.0	31.0	3/8"	
J5MFS-12-12-12	3/4"-16		63	31.5	35.5	1/2"	
J5MFS-14-14-14	7/8"-14		73	36.5	42.0	5/8"	
J5MFS-17-17-17	1-1/16"-12		84	42.0	45.5	3/4"	
J5MFS-21-21-21	1-5/16"-12		92	46.0	51.5	1"	
J5MFS-26-26-26	1-5/8"-12		104	52.0	59.0	1-1/4"	
#J5MFS-30-30-30	1-7/8"-12		118	59.0	67.0	1-1/2"	

INDENT ONLY

Adaptors

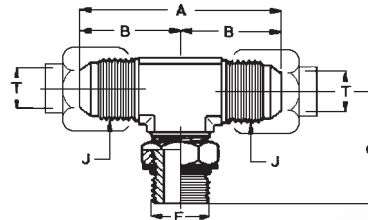
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UN 'O' RING x JIC x JIC M/M/M TEE

PART NO.	THRD F UNO	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			A	B	C	inch	
JU5M-07-07-07	7/16"-20	7/16"-20				1/4"	
JU5M-09-09-09	9/16"-18	9/16"-18	58.5	27.0	31.5	3/8"	
JU5M-12-12-12	3/4"-16	3/4"-16	68.0	31.5	36.5	1/2"	
JU5M-14-12-12	7/8"-14	3/4"-16	77.0	34.0	43.0	1/2"	
JU5M-14-14-14	7/8"-14	7/8"-14	79.5	36.5	43.0	5/8"	
JU5M-17-17-17	1-1/16"-12	1-1/16"-12	91.0	42.0	49.0	3/4"	
JU5M-21-21-21	1-5/16"-12	1-5/16"-12	98.0	46.0	52.0	1"	



JIC x JIC x UN 'O' RING M/M/M TEE

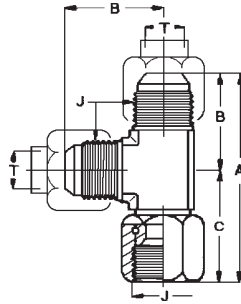
PART NO.	THRD F UNO	THRD J JIC	DIMENSIONS mm			TUBE SIZE	
			A	B	C	inch	
UJ5M-07-07-07	7/16"-20	7/16"-20				1/4"	
UJ5M-08-08-08	1/2"-20	1/2"-20				5/16"	
UJ5M-09-09-07	7/16"-20	9/16"-18				3/8"	
UJ5M-09-09-09	9/16"-18	9/16"-18	54	27.0	31.5	3/8"	
UJ5M-12-12-12	3/4"-16	3/4"-16	63	31.5	36.5	1/2"	
UJ5M-12-12-14	7/8"-14	3/4"-16	68	34.0	43.0	1/2"	
UJ5M-14-14-14	7/8"-14	7/8"-14	73	36.5	43.0	5/8"	
UJ5M-17-17-17	1-1/16"-12	1-1/16"-12	84	42.0	49.0	3/4"	
UJ5M-21-21-21	1-5/16"-12	1-5/16"-12	92	46.0	52.0	1"	

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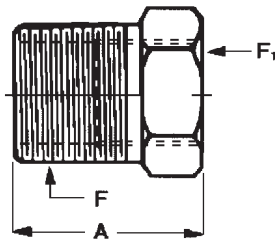
INDENT ONLY

ADAPTORS



JIC x JIC x JIC M/F/M TEE

PART NO.	THRD J	DIMENSIONS mm			TUBE SIZE	
		A	B	C	inch	
J5FSM-07-07-07	7/16"-20	48.5	22.5	26.0	1/4"	
J5FSM-09-09-09	9/16"-18	58.0	27.0	31.0	3/8"	
J5FSM-12-12-12	3/4"-16	67.0	31.5	35.5	1/2"	
J5FSM-14-14-14	7/8"-14	78.5	36.5	42.0	5/8"	
J5FSM-17-17-17	1-1/16"-12	87.5	42.0	45.5	3/4"	
J5FSM-21-21-21	1-5/16"-12	97.5	46.0	51.5	1"	
J5FSM-26-26-26	1-5/8"-12	111.0	52.0	59.0	1-1/4"	
#J5FSM-30-30-30	1-7/8"-12	126.0	59.0	67.0	1-1/2"	



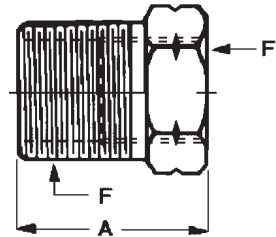
BSPT x BSPT REDUCING BUSH

PART NO.	THRD F	THRD F1	DIMENSIONS mm			
			A			
B1R-04-02	1/4"-19	1/8"-28	17.0			
B1R-06-02	3/8"-19	1/8"-28	18.0			
B1R-06-04	3/8"-19	1/4"-19	18.0			
B1R-08-02	1/2"-14	1/8"-28	21.8			
B1R-08-04	1/2"-14	1/4"-19	21.8			
B1R-08-06	1/2"-14	3/8"-19	21.8			
B1R-12-04	3/4"-14	1/4"-19	23.0			
B1R-12-06	3/4"-14	3/8"-19	23.0			
B1R-12-08	3/4"-14	1/2"-14	23.0			
B1R-16-06	1"-11	3/8"-19	27.8			
B1R-16-08	1"-11	1/2"-14	27.8			
B1R-16-12	1"-11	3/4"-14	27.8			
B1R-20-08	1-1/4"-11	1/2"-14	29.4			
B1R-20-12	1-1/4"-11	3/4"-14	29.4			
B1R-20-16	1-1/4"-11	1"-11	29.4			
B1R-24-12	1-1/2"-11	3/4"-14	31.0			
B1R-24-16	1-1/2"-11	1"-11	31.0			
B1R-24-20	1-1/2"-11	1-1/4"-11	31.0			
B1R-32-20	2"-11	1-1/4"-11	31.0			
B1R-32-24	2"-11	1-1/2"-11	31.0			

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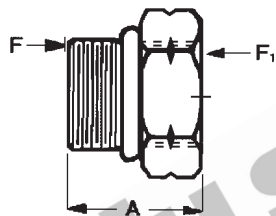
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NPT x NPT REDUCING BUSH

PART NO.	THRD F	THRD F1	DIMENSIONS mm			
			A			
N1R-04-02	1/4"-18	1/8"-27	17.0			
N1R-06-02	3/8"-18	1/8"-27	18.0			
N1R-06-04	3/8"-18	1/4"-18	18.0			
N1R-08-02	1/2"-14	1/8"-27	21.8			
N1R-08-04	1/2"-14	1/4"-18	21.8			
N1R-08-06	1/2"-14	3/8"-18	21.8			
N1R-12-04	3/4"-14	1/4"-18	23.0			
N1R-12-06	3/4"-14	3/8"-18	23.0			
N1R-12-08	3/4"-14	1/2"-14	23.0			
N1R-16-08	1"-11 1/2	1/2"-14	27.8			
N1R-16-12	1"-11 1/2	3/4"-14	27.8			
N1R-20-08	1-1/4"-11 1/2	1/2"-14	27.8			
N1R-20-12	1-1/4"-11 1/2	3/4"-14	29.4			
N1R-20-16	1-1/4"-11 1/2	1"-11 1/2	29.4			
N1R-24-16	1-1/2"-11 1/2	1"-11 1/2	29.4			
N1R-24-20	1-1/2"-11 1/2	1-1/4"-11 1/2	29.4			



UN 'O' RING x UN 'O' RING REDUCING BUSH

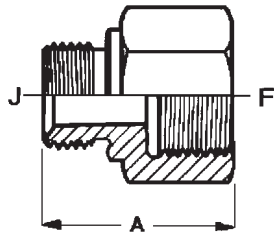
PART NO.	THRD F	THRD F1	DIMENSIONS mm			
			A			
U1R-14-09	7/8"-14	9/16"-18	23			
U1R-17-09	1-1/16"-12	9/16"-18	28			
U1R-17-12	1-1/16"-12	3/4"-16	28			
U1R-21-12	1-5/16"-12	3/4"-16	28			
U1R-21-14	1-5/16"-12	7/8"-14	28			
U1R-21-17	1-5/16"-12	1-1/16"-12	28			
U1R-26-17	1-5/8"-12	1-1/16"-12	30			
U1R-26-21	1-5/8"-12	1-5/16"-12	30			

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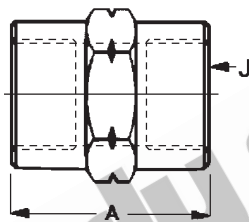
ADAPTORS



BSPP REDUCING BUSH

PART NO.	THRD J	THRD F	DIMENSIONS mm			
			A			
P1R-04-02	1/4"-19	1/8"-28				
P1R-06-04	3/8"-19	1/4"-19	28			
P1R-08-04	1/2"-14	1/4"-19	22			
P1R-08-06	1/2"-14	3/8"-19	32			
P1R-12-04	3/4"-14	1/4"-19	27			
P1R-12-06	3/4"-14	3/8"-19	27			
P1R-12-08	3/4"-14	1/2"-14	29			
P1R-16-08	1"-11	1/2"-14	30			
P1R-16-12	1"-11	3/4"-14	30			
P1R-20-12	1-1/4"-11	3/4"-14	30			
P1R-20-16	1-1/4"-11	1"-11	30			
P1R-24-12	1-1/2"-11	3/4"-14	35			
P1R-24-16	1-1/2"-11	1"-11	35			
P1R-24-20	1-1/2"-11	1-1/4"-11	60			
P1R-32-20	2"-11	1-1/4"-11	37			
PIR-32-24	2"-11	1-1/2"-11	37			

BONDED SEAL INCLUDED



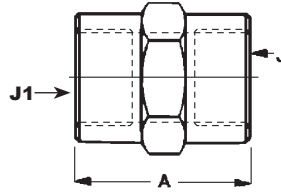
NPT x NPT SOCKET

PART NO.	THRD J	DIMENSIONS mm			
		B			
N1F-02-02	1/8"-27	19			
N1F-04-04	1/4"-18	28			
N1F-06-06	3/8"-18	29			
N1F-08-08	1/2"-14	40			
N1F-12-12	3/4"-14	44			
N1F-16-16	1"-11 1/2	47			
N1F-20-20	1-1/4"-11 1/2	50			
N1F-24-24	1-1/2"-11 1/2				

INDENT ONLY

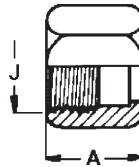
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BSPT x BSPT SOCKET

PART NO.	THRD J	THRD J1	DIMENSIONS mm			
			A			
B1F-02-02	1/8"-28	1/8"-28	19			
B1F-04-04	1/4"-19	1/4"-19	28			
B1F-06-04	1/4"-19	3/8"-19				
B1F-06-06	3/8"-19	3/8"-19	29			
B1F-08-08	1/2"-14	1/2"-14	40			
B1F-12-12	3/4"-14	3/4"-14	44			
B1F-16-16	1"-11	1"-11	47			
B1F-20-20	1-1/4"-11	1-1/4"-11	50			
B1F-24-24	1-1/2"-11	1-1/2"-11	80			
B1F-32-32	2"-11	2"-11				



JIC CAP NUT

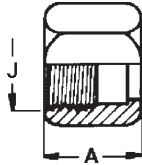
PART NO.	THRD J	DIMENSIONS mm			TUBE SIZE	
		A			inch	
JCN-07	7/16"-20	18.0			1/4"	
JCN-08	1/2"-20				5/16"	
JCN-09	9/16"-18	22.0			3/8"	
JCN-12	3/4"-16	24.0			1/2"	
JCN-14	7/8"-14	27.0			5/8"	
JCN-17	1-1/16"-12	30.0			3/4"	
JCN-21	1-5/16"-12	31.5			1"	
JCN-26	1-5/8"-12	33.0			1-1/4"	
JCN-30	1-7/8"-12	39.0			1-1/2"	

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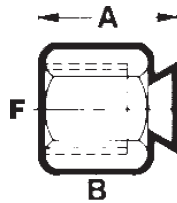
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ADAPTORS



BSPT CAP NUT

PART NO.	THRD J	DIMENSIONS mm				TUBE SIZE	
		A			inch		
BC-02	1/8" - 28						
BC-04	1/4" - 19	18.0					
BC-06	3/8" - 19	22.0			3/8"		
BC-08	1/2" - 14	24.0			1/2"		
BC-12	3/4" - 14	27.0			5/8"		
BC-16	1" - 11	30.0			3/4"		
BC-20	1-1/4" - 11	31.5			1"		
BC-24	1-1/2" - 11	33.0			1-1/4"		
BC-32	2" - 11	39.0			1-1/2"		



'O' RING FACE SEAL CAP NUT

PART NO.	THRD F	THRD J	DIMENSIONS mm				TUBE O.D.
			A	B	C	D	
OCN-09	9/16" - 18		16.8	17.5			1/4"
OCN-11	11/16" - 16		19.0	20.6			3/8"
OCN-13	13/16" - 16		23.1	23.9			1/2"
OCN-16	1" - 14						5/8"
OCN-19	1-3/16" - 12		27.9	35.0			3/4"
OCN-23	1-7/16" - 12		29.7	41.4			1"
OCN-27	1-11/16" - 12						1-1/4"
OCN-32	2" - 12						1-1/2"

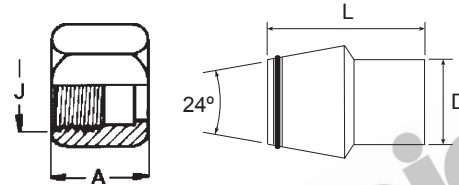
Adaptors

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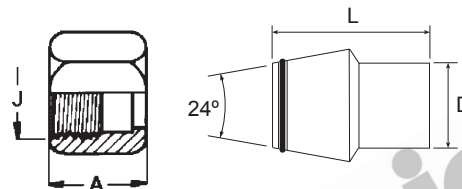
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Adaptors



LIGHT METRIC CAP

PART NO.	THRD F	DIMENSIONS mm				
		A	HEX	L	D	
MCL-12	12x1.5	14.8	14	17.2	5.8	
MCL-14	14x1.5	15	17	17	7.8	
MCL-16	16x1.5	15.8	19	20	9.8	
MCL-18	18x1.5	16	22	21	11.8	
MCL-22	22x1.5	17.5	27	21	14.8	
MCL-26	26x1.5	18	32	23	18	
MCL-30	30x2.0	20.5	36	23	22	
MCL-36	36x2.0	21	41	25.2	28	
MCL-45	45x2.0	24.5	50	29	34.8	



HEAVY METRIC CAP

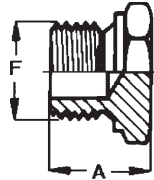
PART NO.	THRD F	DIMENSIONS mm				
		A	HEX	L	D	
MCH-14	14x1.5	17	17	17.2	5.8	
MCH-16	16x1.5	17	19	17	7.8	
MCH-18	18x1.5	18	22	20	9.8	
MCH-20	20x1.5	17.8	24	21	11.8	
MCH-22	22x1.5	21	27	23	14	
MCH-24	24x1.5	21.6	30	24	16	
MCH-30	30x2.0	24.2	36	28	20	
MCH-36	36x2.0	27.4	46	31	24.8	
MCH-42	42x2.0	29.2	50	34	29.8	

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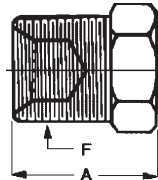
ADAPTORS



BSPP PLUG

PART NO.	THRD J	DIMENSIONS mm					
		A					
PP-02	1/8"-28						
PP-04	1/4"-19	20					
PP-06	3/8"-19	20					
PP-08	1/2"-14	23					
PP-12	3/4"-14	26					
PP-16	1"-11	28					
PP-20	1-1/4"-11	31					
PP-24	1-1/2"-11	35					
PP-32	2"-11	37					

BONDED SEAL INCLUDED



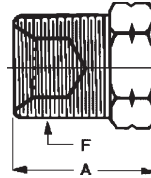
BSPT PLUG

PART NO.	THRD F	DIMENSIONS mm					
		A					
BP-02	1/8"-28	17.0					
BP-04	1/4"-19	18.0					
BP-06	3/8"-19	18.0					
BP-08	1/2"-14	21.8					
BP-12	3/4"-14	23.0					
BP-16	1"-11	27.8					
BP-20	1-1/4"-11	29.4					
BP-24	1-1/2"-11	31.0					
BP-32	2"-11	35.0					

INDENT ONLY

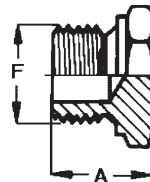
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NPT PLUG

PART NO.	THRD F	DIMENSIONS mm			
		A			
NP-02	1/8"-27	17.0			
NP-04	1/4"-18	18.0			
NP-06	3/8"-18	18.0			
NP-08	1/2"-14	21.8			
NP-12	3/4"-14	23.0			
NP-16	1"-11 1/2	27.8			
NP-20	1-1/4"-11 1/2				
NP-24	1-1/2"-11 1/2				
NP-32	2"-11 1/2				



METRIC PLUG (PORT)

PART NO.	THRD F	DIMENSIONS mm			
		A			
MP-12	12x1.5	15			
MP-14	14x1.5	15			
MP-16	16x1.5	15			
MP-18	18x1.5	16			
MP-20	20x1.5				
MP-22	22x1.5	18			
MP-24	24x1.5				
MP-26	26x1.5	18			
MP-27	27x2.0	18			
MP-33	33x2.0	22			
MP-42	42x2.0	22			

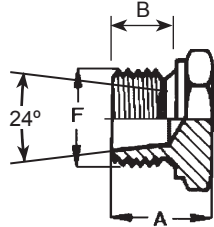
METRIC SEALS SOLD SEPARATELY MSR-

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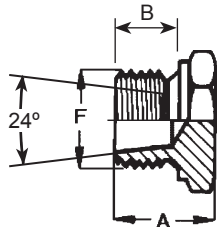
ADAPTORS



LIGHT METRIC PLUG

PART NO.	THRD F	DIMENSIONS mm					
		A	B	HEX			
MPL-12	12x1.5	14	10	12			
MPL-14	14x1.5	15	10	14			
MPL-16	16x1.5	16	11	17			
MPL-18	18x1.5	17	11	19			
MPL-22	22x1.5	18	12	24			
MPL-26	26x1.5	19	12	27			
MPL-30	30x2.0	21	14	32			
MPL-36	36x2.0	22	14	41			
MPL-45	45x2.0	25	16	46			

METRIC SEALS SOLD SEPARATELY MSR-



HEAVY METRIC PLUG

PART NO.	THRD F	DIMENSIONS mm					
		A	B	HEX			
MPH-14	14x1.5	18	12	14			
MPH-16	16x1.5	20	12	17			
MPH-18	18x1.5	20	12	19			
MPH-20	20x1.5	22	12	22			
MPH-22	22x1.5	24	14	24			
MPH-24	24x1.5	24	14	27			
MPH-30	30x2.0	28	16	32			
MPH-36	36x2.0	32	18	41			
MPH-42	54x2.0	34	20	46			
MPH-52	52x2.0	39	22	55			

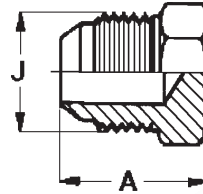
METRIC SEALS SOLD SEPARATELY MSR-

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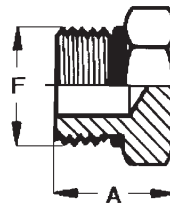
Document No:	HSHYDCAT
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Adaptors



JIC PLUG

PART NO.	THRD J	DIMENSIONS mm			TUBE SIZE	
		A			inch	
JP-07	7/16"-20	20.5			1/4"	
JP-08	1/2"-20				5/16"	
JP-09	9/16"-18	21.5			3/8"	
JP-12	3/4"-16	24.5			1/2"	
JP-14	7/8"-14	28.0			5/8"	
JP-17	1-1/16"-12	32.5			3/4"	
JP-21	1-5/16"-12	34.0			1"	
JP-26	1-5/8"-12	37.0			1-1/4"	
JP-30	1-7/8"-12	42.0			1-1/2"	



UN 'O' RING PLUG

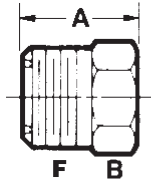
PART NO.	THRD F	DIMENSIONS mm				
		A				
UP-06	3/8"-24					
UP-07	7/16"-20	11.5				
UP-08	1/2"-20					
UP-09	9/16"-18	12.5				
UP-12	3/4"-16	14.5				
UP-14	7/8"-14	16.5				
UP-17	1-1/16"-12	19.5				
UP-19	1-3/16"-12					
UP-21	1-5/16"-12	19.5				
UP-26	1-5/8"-12	19.5				
UP-30	1-7/8"-12	19.5				

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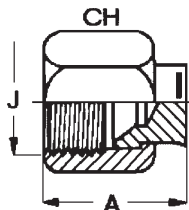
INDENT ONLY

ADAPTORS



'O' RING FACE SEAL PLUG

PART NO.	THRD F	THRD J	DIMENSIONS mm				TUBE O.D.
			A	B	C	D	
OP-09	9/16" - 18		16.8	16.0			1/4"
OP-11	11/16" - 16		19.0	19.0			3/8"
OP-13	13/16" - 16		21.8	22.3			1/2"
OP-16	1" - 14						5/8"
OP-19	1-3/16" - 12		27.4	31.7			3/4"
OP-23	1-7/16" - 12		27.9	38.1			1"
OP-27	1-11/16" - 12						1-1/4"
OP-32	2" - 12						1-1/2"



JIC TUBE NUT & SLEEVE

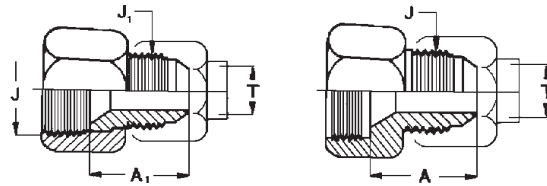
PART NO.	THRD J	DIMENSIONS mm			TUBE SIZE	
		A	CH	A1	T	
JNS-07	7/16"-20	15.5	9/16"	10.5	1/4"	
JNS-08	1/2"-20				5/16"	
JNS-09	9/16"-18	18.5	1-11/16"	12.5	3/8"	
JNS-12	3/4"-16	21.5	7/8"	14.5	1/2"	
JNS-14	7/8"-14	24.5	1"	16.5	5/8"	
JNS-17	1-1/16"-12	26.0	1-1/4"	17.0	3/4"	
JNS-21	1-5/16"-12	28.5	1-1/2"	19.5	1"	
JNS-26	1-5/8"-12	31.0	2"	23.0	1-1/4"	
JNS-30	1-7/8"-12	36.0	2-1/4"	28.5	1-1/2"	

Adaptors

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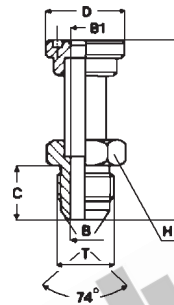
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JIC x JIC TUBE REDUCER

PART NO.	THRD J	THRD J1	DIMENSIONS mm		TUBE SIZE	
			A	A1	inch	inch
JTR-09-07	9/16"-18	7/16"-20		24.5	3/8"	1/4"
JTR-12-07	3/4"-16	7/16"-20		25.5	1/2"	1/4"
JTR-12-09	3/4"-16	9/16"-18		25.5	1/2"	3/8"
JTR-14-07	7/8"-14	7/16"-20		26.0	5/8"	1/4"
JTR-14-09	7/8"-14	9/16"-18		26.5	5/8"	3/8"
JTR-14-12	7/8"-14	3/4"-16	25		5/8"	1/2"
JTR-17-07	1-1/16"-12	7/16"-20		27.5	3/4"	1/4"
JTR-17-09	1-1/16"-12	9/16"-18		27.5	3/4"	3/8"
JTR-17-12	1-1/16"-12	3/4"-16		30.5	3/4"	1/2"
JTR-17-14	1-1/16"-12	7/8"-14	29		3/4"	5/8"
JTR-21-12	1-5/16"-12	3/4"-16			1"	1/2"
JTR-21-14	1-5/16"-12	7/8"-14			1"	5/8"
JTR-21-17	1-5/16"-12	1-1/16"-12		37.5	1"	3/4"
JTR-26-21	1-5/8"-12	1-5/16"-12		40.0	1-1/4"	1"
JTR-30-21	1-7/8"-12	1-5/16"-12			1-1/2"	1"
JTR-30-26	1-7/8"-12	1-5/8"-12			1-1/2"	1-1/4"



JIC x FLANGE HEAD STR. ADAPTOR 3000 PSI (CODE 61)

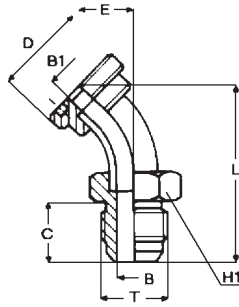
PART NO.	THRD T JIC	FLANGE NOMINAL	DIMENSIONS mm				
			L	B	B1	C	H1
JF1M-12-08	3/4"-16	1/2"					
#JF1M-14-08	7/8"-14	1/2"					
#JF1M-14-12	7/8"-14	3/4"					
JF1M-17-12	1-1/16"-12	3/4"	74	15	15	22	27
#JF1M-17-16	1-1/16"-12	1"					
JF1M-21-16	1-5/16"-12	1"	82	20	20	24	34
#JF1M-21-20	1-5/16"-12	1-1/4"					
JF1M-21-24	1-5/16"-12	1-1/2"					
JF1M-26-20	1-5/8"-12	1-1/4"	90	26	26	27	42
JF1M-26-24	1-5/8"-12	1-1/2"					

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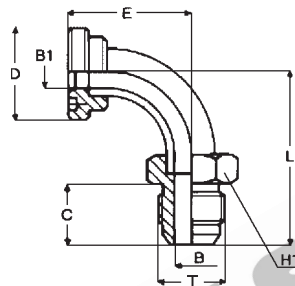
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ADAPTORS



JIC x FLANGE HEAD 45° ADAPTOR 3000 PSI (CODE 61)

PART NO.	THRD T JIC	FLANGE D NOMINAL	DIMENSIONS mm					
			L	B	B1	C	H1	E
JF4M-12-08	3/4"-16	1/2"	60	9.5	12	18	22	19
#JF4M-14-12	7/8"-14	3/4"						
#JF4M-14-16	7/8"-14	1"						
#JF4M-14-20	7/8"-14	1-1/4"						
JF4M-17-12	1-1/16"-12	3/4"	68	15	15	22	27	21
JF4M-17-16	1-1/16"-12	1"						
JF4M-17-16	1-5/16"-12	1"	80	20	20	24	34	23
#JF4M-21-20	1-5/16"-12	1-1/4"						
JF4M-26-20	1-5/16"-12	1-1/4"	93	26	26	27	42	29



JIC x FLANGE HEAD 90° ADAPTOR 3000 PSI SAE (CODE 61)

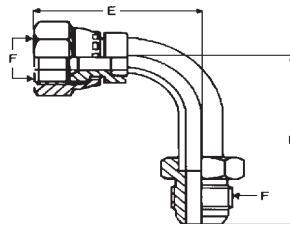
PART NO.	THRD T JIC	FLANGE D NOMINAL	DIMENSIONS mm					
			L	B	B1	C	E	H1
#JF9M-12-08	3/4"-16	1/2"	53	9.5	12	18	39	22
#JF9M-12-16	3/4"-16	1"						
#JF9M-14-12	7/8"-14	3/4"						
#JF9M-14-16	7/8"-14	1"						
#JF9M-14-20	7/8"-14	1-1/4"						
JF9M-17-12	1-1/16"-12	3/4"	63	15	15	22	45	27
#JF9M-17-16	1-1/16"-12	1"						
JF9M-17-20	1-1/16"-12	1-1/4"						
JF9M-21-16	1-5/16"-12	1"	75	20	20	24	53	34
#JF9M-21-20	1-5/16"-12	1-1/4"						
JF9M-26-20	1-5/8"-12	1-1/4"	84	26	26	27	58	42

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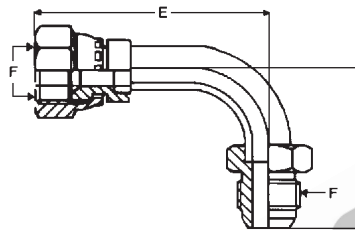
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Adaptors



JIC x JIC M/F 90° TUBE BEND

PART NO.	THRD F	DIMENSIONS mm			
		L	E		
JST9MFS-07-07	7/16"-20				
JST9MFS-09-09	9/16"-18				
JST9MFS-12-12	3/4"-16	50	50		
JST9MFS-14-14	7/8"-14	65	65		
JST9MFS-17-17	1-1/16"-12	65	65		
JST9MFS-21-21	1-5/16"-12	75	75		
JST9MFS-26-26	1-5/8"-12	71	105		



JIC x JIC M/F 90° LONG TUBE BEND

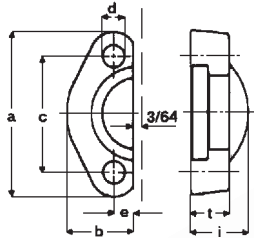
PART NO.	THRD F	DIMENSIONS mm			
		L	E		
JLT9MFS-07-07	7/16"-20				
JLT9MFS-09-09	9/16"-18				
JLT9MFS-12-12	3/4"-16				
JLT9MFS-14-14	7/8"-14				
JLT9MFS-17-17	1-1/16"-12	110	65		
JLT9MFS-21-21	1-5/16"-12	125	74		

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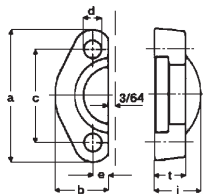
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ADAPTORS



SAE FLANGE 3000 PSI (CODE 61)

PART NO.	FLANGE NOMINAL	DIMENSIONS mm					
		A	B	C	D	E	F
SFK-08	1/2"	54.0	23.0	38.1	9.0	8.7	12.7
SFK-12	3/4"	65.1	26.1	47.6	11.0	11.1	14.3
SFK-16	1"	69.1	29.4	52.4	11.0	13.1	14.3
SFK-20	1-1/4"	79.4	36.5	58.7	11.0	15.1	14.3
SFK-24	1-1/2"	93.7	41.3	69.8	13.5	17.8	15.9
SFK-32	2"	101.6	48.4	77.8	13.5	21.4	15.9
SFK-40	2-1/2"						
SFK-48	3"						



SAE FLANGE 6000 PSI (CODE 62)

PART NO.	FLANGE NOMINAL	DIMENSIONS mm					
		A	B	C	D	E	F
SFHK-12	3/4"	71.4	30.2	50.8	11.0	11.9	19.0
SFHK-16	1"	80.9	34.9	57.1	13.9	15.0	24.0
SFHK-20	1-1/4"	95.2	38.9	66.7	15.0	15.8	27.0
SFHK-24	1-1/2"	112.7	47.6	79.4	17.0	18.2	30.5
SFHK-32	2"	133.3	57.1	96.8	21.0	22.2	36.5

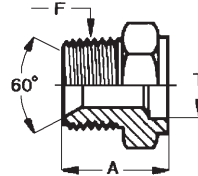
Adaptors

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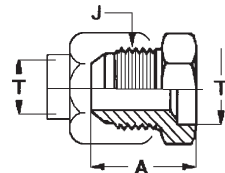
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Adaptors



BSPT TUBE WELD NIPPLE

PART NO.	THRD F BSPT	TUBE SIZE inch	DIMENSIONS mm				
			A	T			
B25M-04-04	1/4"-19	1/4"	19.0	6.0			
B25M-04-06	1/4"-19	3/8"	19.0	10.5			
B25M-06-04	3/8"-19	1/4"	21.0	6.0			
B25M-06-06	3/8"-19	3/8"	24.5	10.5			
B25M-08-08	1/2"-14	1/2"	28.5	12.7			
B25M-12-12	3/4"-11	3/4"	33.0	19.5			
B25M-12-16	3/4"-11	1"	30.0	25.5			
B25M-16-16	1"-11	1"	35.0	25.5			
B25M-16-20	1"-11	1-1/4"	33.0	32.5			
B25M-20-20	1-1/4"-11	1-1/4"	37.0	32.5			



JIC TUBE WELD NIPPLE

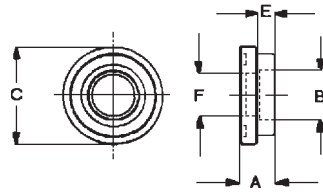
PART NO.	THRD J JIC	TUBE SIZE inch	DIMENSIONS mm		TUBE SIZE	
			A	T1	inch	
J25M-07-04	7/16"-20	1/4"	20.5	6.5	1/4"	
J25M-09-04	9/16"-18	1/4"	21.5	6.5	3/8"	
J25M-09-06	9/16"-18	3/8"	21.5	9.6	3/8"	
J25M-09-08	9-16"-18	1/2"	21.5	12.8	3/8"	
J25M-12-06	3/4"-16	3/8"	24.5	9.6	1/2"	
J25M-12-08	3/4"-16	1/2"	24.5	12.8	1/2"	
J25M-12-10	3/4"-16	5/8"	24.5	16.1	1/2"	
J25M-14-08	7/8"-14	1/2"	28.0	12.8	5/8"	
J25M-14-10	7/8"-14	5/8"	28.0	16.1	5/8"	
J25M-14-12	7/8"-14	3/4"	28.0	19.2	5/8"	
J25M-17-12	1-1/16"-12	3/4"	32.5	19.2	3/4"	
J25M-17-16	1-1/16"-12	1"	32.5	25.5	3/4"	
J25M-21-16	1-5/16"-12	1"	34.0	25.5	1"	
J25M-21-20	1-5/16"-12	1-1/4"	34.5	32.5	1"	
J25M-26-20	1-5/8"-12	1-1/4"	37.0	32.5	1-1/4"	
J25M-26-24	1-5/8"-12	1-1/2"	37.0	38.5	1-1/4"	
#J25M-30-24	1-7/8"-12	1-1/2"	42.0	38.5	1-1/2"	

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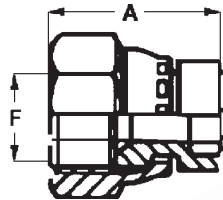
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ADAPTORS



3000 PSI TUBE WELD FLANGE

PART NO.	FLANGE NOMINAL SIZE inch	TUBE SIZE inch	DIMENSIONS mm				
			A	B	C	E	F
F25M-08-08	1/2"	1/2"	12.7	12.7	30.1	6.4	10.3
F25M-12-08	3/4"	1/2"	14.3	12.7	38.1	6.4	10.3
F25M-12-10	3/4"	5/8"	14.3	16.0	38.1	6.4	12.7
F25M-12-12	3/4"	3/4"	14.3	19.0	38.1	6.4	16.0
F25M-12-16	3/4"	1"	14.3	25.4	38.1	6.4	21.4
F25M-16-08	1"	1/2"	14.3	12.7	44.5	6.4	10.3
F25M-16-10	1"	5/8"	14.3	16.0	44.5	6.4	12.7
F25M-16-12	1"	3/4"	14.3	19.0	44.5	6.4	16.0
F25M-16-16	1"	1"	14.3	25.4	44.5	6.4	21.4
F25M-16-20	1"	1-1/4"	14.3	32.0	44.5	6.4	27.8
F25M-20-16	1-1/4"	1"	14.3	25.4	50.8	6.4	21.4
F25M-20-20	1-1/4"	1-1/4"	14.3	32.0	50.8	6.4	27.8
F25M-20-24	1-1/4"	1-1/2"	14.3	38.0	50.8	6.4	33.3
F25M-24-16	1-1/2"	1"	15.9	25.4	60.3	7.9	21.4
F25M-24-20	1-1/2"	1-1/4"	15.9	32.0	60.3	7.9	27.8
F25M-24-24	1-1/2"	1-1/2"	15.9	38.0	60.3	7.9	33.3
F25M-32-20	2"	1-1/4"	15.9	32.0	71.4	7.9	27.8
F25M-32-24	2"	1-1/2"	15.9	38.0	71.4	7.9	33.3
F25M-32-32	2"	2"	15.9	50.8	71.4	7.9	46.0
F25M-40-40	2-1/2"	2-1/2"	18.0	63.5	84.1	7.9	54.0



JIC FEMALE SWIVEL TUBE WELD

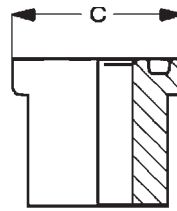
PART NO.	THRD F JIC	TUBE SIZE inch	DIMENSIONS mm				
			A				
J25FS-07-04	7/16"-20	1/4"					
J25FS-09-04	9/16"-18	1/4"					
J25FS-09-06	9/16"-18	3/8"					
J25FS-09-08	9/16"-18	1/2"					
J25FS-10-06	5/8"-18	3/8"					
J25FS-12-06	3/4"-16	3/8"					
J25FS-12-08	3/4"-16	1/2"					
J25FS-14-08	7/8"-14	1/2"					
J25FS-14-10	7/8"-14	5/8"					
J25FS-17-12	1-1/16"-12	3/4"					
J25FS-17-14	1-1/16"-12	7/8"					
J25FS-17-16	1-1/16"-12	1"					
J25FS-21-16	1-5/16"-12	1"					
J25FS-21-20	1-5/16"-12	1-1/4"					
J25FS-26-20	1-5/8"-12	1-1/4"					
J25FS-30-24	1-7/8"-12	1-1/2"					
J25FS-40-32	2-1/2"-12	2"					

INDENT ONLY

Adaptors

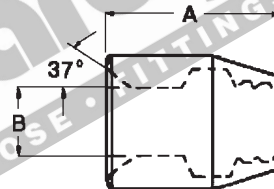
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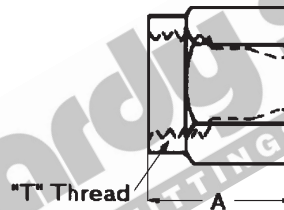
6000 PSI TUBE WELD FLANGE

PART NO.	FLANGE NOMINAL	DIMENSIONS mm			
		C			
FH25M-12	3/4"	41.3			
FH25M-16	1"	47.6			
FH25M-20	1-1/4"	54.0			
FH25M-24	1-1/2"	63.5			
FH25M-32	2"	79.4			



FLARELESS FERRULE

PART NO.	DIMENSIONS mm			TUBE SIZE	
	A	B		inch	
FF-04	10.7	6.4		1/4"	
FF-06	11.9	9.5		3/8"	
FF-08	14.5	12.7		1/2"	
FF-10	14.7	16.0		5/8"	
FF-12	17.8	19.0		3/4"	
FF-16	31.4	25.4		1"	
FF-20				1-1/4"	



FLARELESS TUBE NUT

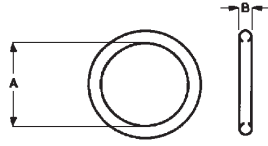
PART NO.	THR D T	DIMENSIONS mm			TUBE SIZE	
		A			inch	
FN-04	7/16"-20	20.8			1/4"	
FN-06	9/16"-18	21.8			3/8"	
FN-08	3/4"-16	27.4			1/2"	
FN-10	7/8"-14	28.4			5/8"	
FN-12	1-1/16"-12	34.5			3/4"	
FN-16	1-5/16"-12	35.6			1"	
FN-20	1-5/8"-12				1-1/4"	

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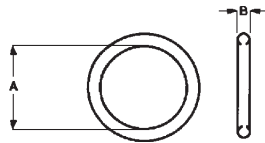
INDENT ONLY

ADAPTORS



'O' RING TO SUIT SAE FLANGE DUROMETER 90

PART NO.	FLANGE NOMINAL SIZE inch	DIMENSIONS mm			
		A	B		
FOR-08	1/2"	18.64	3.53		
FOR-10	5/8"		3.53		
FOR-12	3/4"	24.99	3.53		
FOR-16	1"	32.92	3.53		
FOR-20	1-1/4"	37.69	3.53		
FOR-24	1-1/2"	47.22	3.53		
FOR-32	2"	54.74	3.53		
FOR-40	2-1/2"	69.44	3.53		



'O' RING TO SUIT UN THREAD DUROMETER 90

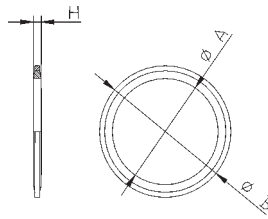
PART NO.	THREAD SIZE inch	DIMENSIONS mm			
		A	B		
UOR-07	7/16"	8.9	1.90		
UOR-09	9/16"	11.9	1.98		
UOR-12	3/4"	16.4	1.98		
UOR-14	7/8"	19.2	2.46		
UOR-17	1-1/16"	23.5	2.94		
UOR-21	1-5/16"	29.7	2.94		
UOR-26	1-5/8"	37.5	2.99		
UOR-30	1-7/8"	43.7	2.99		

Adaptors

INDENT ONLY

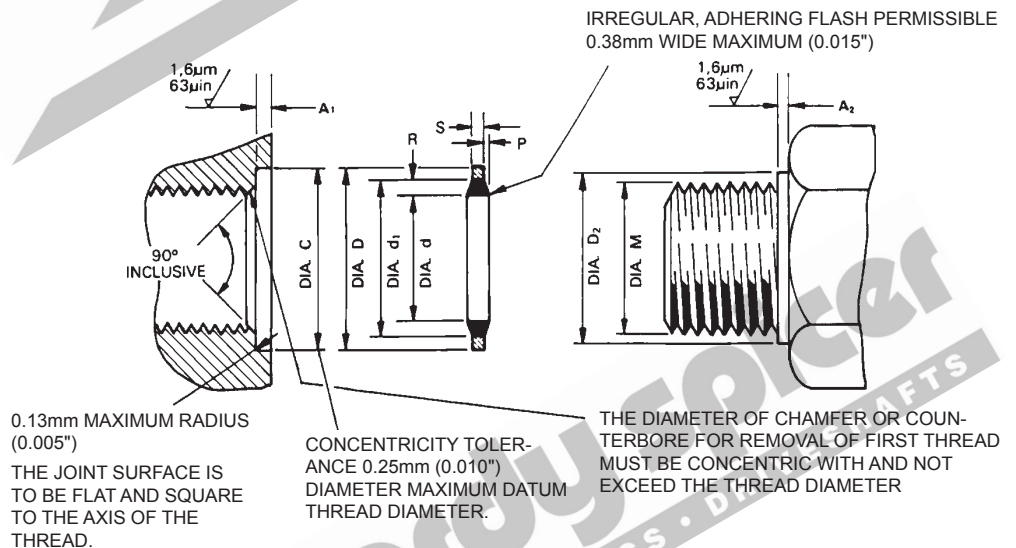
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METRIC BONDED SEAL

PART NO.	THREAD SIZE	DIMENSIONS mm		
		A	B	H
MSR-10	10	10	15	4.5
MSR-12	12	12	17	4.5
MSR-14	14	14	19	4.5
MSR-16	16	16	21	4.5
MSR-18	18	18	23	4.5
MSR-20	20	20	25	4.5
MSR-22	22	22	27	4.5
MSR-24	24	24	29	4.5
MSR-26	26	26	31	4.5
MSR-27	27	27	32	5.5
MSR-30	30	30		
MSR-33	33	33	39	6.0
MSR-42	42	42	49	6.5
MSR-48	48	48	55	6.5



IMPERIAL BONDED SEAL

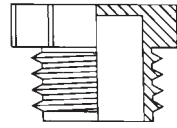
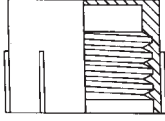
PART No.	THREAD DIA 'M B.S.P.F.	BONDED SEAL						D +0.5	A A ₁ max A ₂ min	C +0.4	MINIMUM BURST PRESSURE BAR
		D -0.2	d +0.2	d +0.2	S ±0.25	R ±0.2	P +0.25 -0.000				
BS-02	1/8"	14.7	10.40	12.00	1.25	1.35	0.25	14	1.0	15	930
BS-04	1/4"	18.7	13.85	15.75	1.25	1.47	0.25	18	1.5	19	793
BS-06	3/8"	22.7	17.35	19.25	1.25	1.72	0.25	22	2.0	23	775
BS-08	1/2"	26.7	21.65	23.55	1.25	1.57	0.25	26	2.5	27	586
BS-10	5/8"										
BS-12	3/4"	32.5	27.30	29.20	1.25	1.65	0.25	32	2.5	33	500
BS-16	1"	39.5	34.20	36.10	2.00	1.70	0.25	39	2.5	40	414
BS-20	1-1/4"	49.5	42.80	44.70	2.00	2.40	0.25	49	2.5	50	500
BS-24	1-1/2"	55.5	48.70	50.60	2.00	2.45	0.25	55	2.5	56	434
BS-32	2"	68.5	60.50	62.40	2.00	3.05	0.25	68	3.0	69	448

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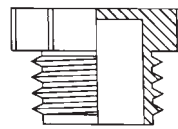
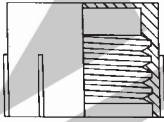
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ADAPTORS



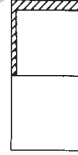
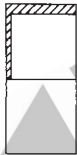
BSP PLASTIC CAPS & PLUGS

BSP PLASTIC CAPS			BSP PLASTIC PLUGS		
PART No.	THRD	COMMENTS	PART No.	THRD	COMMENTS
PBC-04	1/4"		PBP-04	1/4"	
PBC-06	3/8"		PBP-06	3/8"	
PBC-08	1/2"		PBP-08	1/2"	
PBC-12	3/4"		PBP-12	3/4"	
PBC-16	1"		PBP-16	1"	
PBC-20	1-1/4"		PBP-20	1-1/4"	
PBC-24	1-1/2"		PBP-24	1-1/2"	
PBC-32	2"		PBP-32	2"	



JIC PLASTIC CAPS & PLUGS

JIC PLASTIC CAPS			JIC PLASTIC PLUGS		
PART No.	THRD	COMMENTS	PART No.	THRD	COMMENTS
PJC-07	7/16"-20		PJP-07	7/16"-20	
PJC-09	9/16"-18		PJP-09	9/16"-18	
PJC-12	3/4"-16		PJP-12	3/4"-16	
PJC-14	7/8"-14		PJP-14	7/8"-14	
PJC-17	1-1/16"-12		PJP-17	1-1/16"-12	
PJC-21	1-5/16"-12		PJP-21	1-5/16"-12	
PJC-26	1-5/8"-12		PJP-26	1-5/8"-12	
PJC-30	1-7/8"-12		PJP-30	1-7/8"-12	



FLANGE PLASTIC COVERS

CODE 61 PLASTIC COVERS			CODE 62 PLASTIC COVERS		
PART No.	FLANGE SIZE	COMMENTS	PART No.	FLANGE SIZE	COMMENTS
P3F-12	3/4"		P6F-12	3/4"	
P3F-16	1"		P6F-16	1"	
P3F-20	1-1/4"		P6F-20	1-1/4"	
P3F-24	1-1/2"		P6F-24	1-1/2"	
P3F-32	2"		P6F-32	2"	

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