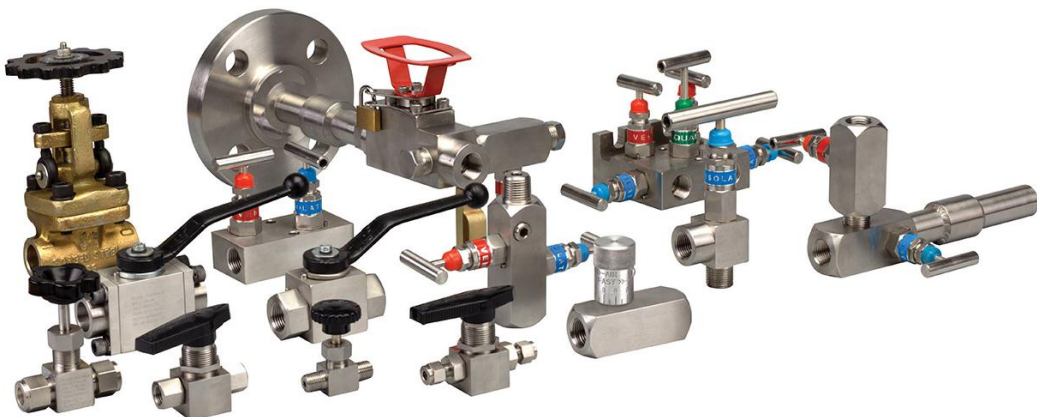




**METALOK INDUSTRIES**  
(AN ISO 9001: 2008 Certified Company)

**Manufacturer of wide range of  
Fittings and Valves  
For Instrumentation, Hydraulic  
& Precise Industrial Applications**



**METALOK INDUSTRIES**

[sales@metalokindustries.com](mailto:sales@metalokindustries.com)



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# METALOK

## PRECISION PIPE FITTINGS



Dimensions are for reference only and subject to change without notice.

### Warning for Your Safety

The system designer and user have the sole responsibility to select products suitable for their special application requirements to ensure the proper installation. Operation and maintenance of the product. Application details, material compatibility and product ratings should all be considered in the individual selection. Improper selection or use of products can cause property damage or personal injury. METALOK accepts no liability for any improper selection, installation, operation or maintenance.



## INTRODUCTION

METALOK 6K pressure series consists of complete line of Precision Instrument threaded pipe fittings. This range has been designed and manufactured for typical application in chemical and petrochemical plants, as well as oil, gas and power generation industries. This fully illustrated catalogue contains detailed engineering information, dimensional data and the part numbering system.

## NOMENCLATURE

METALOK fitting part numbers are constructed from symbols that identify the size and style of the fitting and the material used.

## ABBREVIATION

p = Female Thread Type F = Hex Across Flat  
P1 = Male Thread Type IN = Imperial (Inch)

## THREAD

All fittings supplied under this specification shall be in accordance with ANSI/ASME B1.20.1 NPT (National Pipe Taper) and BSP/ISO as per ISO 7/1 or 228/1. Pipe Threads General Purpose (inch).

PIPE THREAD SYMBOLV				
Norn.	Symbol	ANSI Pipe	BSP/ISO Thread	
Pipe Size		Thread (NPT)	Tappered(7/1)	Parallel(228/1)
1/8"	2	2N	2R	2G
1/4"	4	4N	4R	4G
3/8"	6	6N	6R	6G
1/2"	8	8N	8R	8G
3/4"	12	12N	12R	12G
1"	16	16N	16R	16G

## APPLICATION

FAV fitting has been specifically designed for use on instrumentation, process and systems, together with equipment employed in chemical, chromatography, petroleum, power generation and pulp & paper plants.

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## PRECISION PIPE FITTINGS

### DESIGN /FEATURES

Sizes range from 1/8" to 1-1/2".

Fittings are properly packaged with the exposed threads protected to ensure they are not damaged during deliver Working pressures calculated in accordance with Power Piping Code ANSI B 31.1 Piping Code ASME/ANSIB 31.3 section VIII of ASME Boiler & Pressure Vessel Code. Precision pipe fittings for instrumentation and process control.

Fine threads constructed to ensure leak-free & reliable system

3. Male threads are protected with plastic cap.

4. Many choice of connections and configurations are available.

5. Safely factor is 1:4

### INSTALLATION INSTRUCTIONS

To ensure a leak-tight seal, FAV recommends the use of a pipe thread sealant on all NPT threads. The most effective sealing method is teflon tape. Tape should be used only on male tapered pipe threads. Do not use tape on flared, coned or tube fitting ends! Clean both male and female tapered threads. Wrap tape in the direction of the male tapered thread spiral

Note: Two wraps are suggested for stainless steel tapered pipe threads. Make sure tape does not overhang the first Thread, as the tape might shred and enter the fluid system. Cut off excess tape. The connection is now ready for proper makeup.

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1

HEX NIPPLE NPT MALE x NPT MALE



1

HEX REDUCING NIPPLE  
NPT MALE x NPT MALE



1

CLOSE NIPPLE NPT MALE x NPT MALE



2

HEX LONG NIPPLE  
NPT MALE x NPT MALE



2

HEX COUPLING NPT  
FEMALE x NPT FEMALE



2

HEX REDUCING COUPLING  
NPT FEMALE x NPT FEMALE



3

ADAPTER NPT TO NPT Female X  
Male



3

ADAPTER BSPT TO NPT Female X  
Male



3

ADAPTER NPT TO BSPT Female X  
Male



4

ADAPTER NPT TO BSPP



4

GAUGE ADAPTER BSPP TO NPT



4

REDUCING ADAPTER NPT TO NPT



5

REDUCING BUSHING  
NPT X NPT(Male X Female)



5

PIPE CAP NPT Female



5

HEX PLUG NPT Male



6

MALE TO HOSE CONNECTOR  
Hose OD to NPT Male



6













FEMALE TO HOSE CONNECTOR  
Hose OD to NPT Female



7

TUBE TO HOSE CONNECTOR  
Hose ID to Tube OD



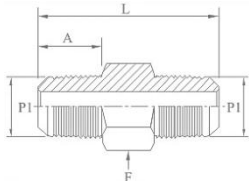
 7	 7	 8
<b>45° ELBOW STREET</b>	<b>45° ELBOW FEMALE</b>	<b>ELBOW REDUCING STREET NPT X NPT(Male X Female)</b>
 8	 9	 9
<b>ELBOW FEMALE NPT X NPT(Female X Female)</b>	<b>MALE ELBOW NPT X NPT(Male X Male)</b>	<b>ELBOW STREET NPT X NPT(Male X Male)</b>
 10	 10	 10
<b>TEE MALE</b>	<b>TEE STREET Female X Female X Male Side</b>	<b>TEE BRANCH Female X Female X Male Centre</b>
 11	 11	 11
<b>TEE FEMALE</b>	<b>CROSS FEMALE</b>	<b>UNION BALL JOINT</b>

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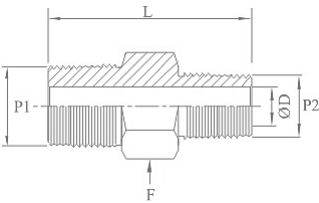
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**HEX NIPPLE NPT MALE x NPT MALE**



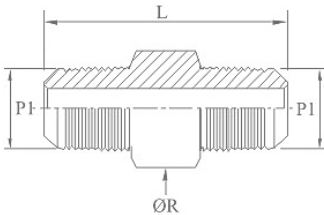
PART No.	P1		L	A	F
	NPTM	NPTM	mm	mm	HEX
MIPF/HN/1I-1I	1/16"	1/16"	25.6	9.7	3/8"
MIPF/HN/2I-2I	1/8"	1/8"	25.6	9.7	7/16"
MIPF/HN/4I-4I	1/4"	1/4"	35.6	14.2	9/16"
MIPF/HN/6I-6I	3/8"	3/8"	36.4	14.2	11/16"
MIPF/HN/8I-8I	1/2"	1/2"	46.5	19.1	7/8"
MIPF/HN/12I-12I	3/4"	3/4"	50.03	19.1	1-1/16"
MIPF/HN/16I-16I	1"	1"	59.43	23.90	1-3/8"
MIPF/HN/20I-20I	1-1/4"	1-1/4"	62.20	24.6	1-3/4"
MIPF/HN/24I-24I	1-1/2"	1-1/2"	65.00	25.4	2"

**HEX REDUCING NIPPLE NPT MALE x NPT MALE**



PART No.	P1	P2	OD	L	F
	NPTM	NPTM	inch	inch	HEX
MIPF/HRN/2-1I	1/8 "	1/16 "	0.12	1.01	7/16 "
MIPF/HRN/4-1I	1/4 "	1/16 "	0.12	1.25	5/8 "
MIPF/HRN/4-2I	1/4 "	1/8 "	0.19	1.22	9/16 "
MIPF/HRN/6-1I	3/8 "	1/16 "	0.19	1.27	3/4 "
MIPF/HRN/6-2I	3/8 "	1/8 "	0.19	1.25	11/16 "
MIPF/HRN/6-4I	3/8 "	1/4 "	0.28	1.43	11/16 "
MIPF/HRN/8-2I	1/2 "	1/8 "	0.19	1.47	7/8 "
MIPF/HRN/8-4I	1/2 "	1/4 "	0.28	1.65	7/8 "
MIPF/HRN/8-6I	1/2 "	3/8 "	0.38	1.65	7/8 "
MIPF/HRN/12-4I	3/4 "	1/4 "	0.28	1.65	1-1/16 "
MIPF/HRN/12-6I	3/4 "	3/8 "	0.38	1.65	1-1/16 "
MIPF/HRN/12-8I	3/4 "	1/2 "	0.47	1.84	1-1/16 "
MIPF/HRN/12-2I	3/4 "	1/8 "	0.19	1.59	1-1/16 "
MIPF/HRN/16-2I	1	1/8 "	0.19	1.78	1-3/8 "
MIPF/HRN/16-4I	1	1/4 "	0.28	1.97	1-3/8 "
MIPF/HRN/16-6I	1	3/8 "	0.38	1.97	1-3/8 "
MIPF/HRN/16-8I	1	1/2 "	0.47	2.13	1-3/8 "
MIPF/HRN/16-12I	1	3/4 "	0.62	2.13	1-3/8 "
MIPF/MRN/20I-16I	1-1/4 "	1	61.50	1-3/4 "	24.6/23.9

**CLOSE NIPPLE NPT MALE x NPT MALE**



PART No.	P1		L	OR
	NPTM	NPTM	inch	inch
MIPF/CN/1-1I	1/16 "	1/16 "	0.75	7/16 "
MIPF/CN/2-2I	1/8 "	1/8 "	0.75	7/16 "
MIPF/CN/4-4I	1/4 "	1/4 "	1.12	9/16 "
MIPF/CN/6-6I	3/8 "	3/8 "	1.12	11/16 "
MIPF/CN/8-8I	1/2 "	1/2 "	1.50	7/8 "
MIPF/CN/12-12I	3/4 "	3/4 "	1.50	1-1/16 "
MIPF/CN/16-16I	1 "	1 "	1.88	1-3/8 "

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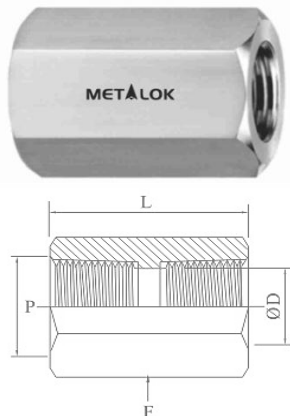


**HEX LONG NIPPLE NPT MALE x NPT MALE**



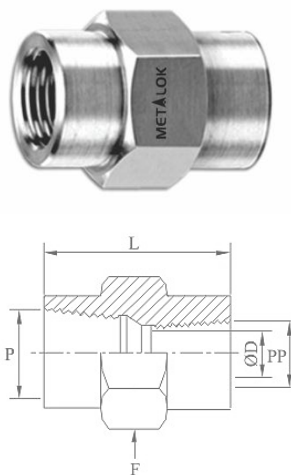
PART No.	L inch						P1	OD	F
								INCH	HEX
MIPF/HLN/2-2I	1.5	2	2.5	3	4		1/8 "	0.19	7/16 "
MIPF/HLN/4-4I	2	2.5	3	3.5	4		1/4 "	0.28	7/16 "
MIPF/HLN/6-6I	2	2.5	3	3.5	4	5	3/8 "	0.33	11/16 "
MIPF/HLN/8-8I	2	2.5	3	3.5	4	5	1/2 "	0.47	7/8 "
MIPF/HLN/12-12I	2.5	3	3.5	4	5	6	3/4 "	0.62	1-1/16 "
MIPF/HLN/16-16I	3	3.5	4	4.5	6		1 "	0.86	1-3/8 "

**HEX COUPLING NPT FEMALE x NPT FEMALE**



PART No.	P	OD	L	F
	NPTF	mm	mm	HEX
MIPF/HC/2I	1/8 "	8.6	20.6	9/16 "
MIPF/HC/4I	1/4 "	11.4	30.2	3/4 "
MIPF/HC/6I	3/8 "	15.0	33.3	7/8 "
MIPF/HC/8I	1/2 "	18.5	39.6	1-1/16 "
MIPF/HC/12I	3/4 "	23.9	41.1	1-5/6 "
MIPF/HC/16I	1 "	29.7	50.8	1-5/8 "

**HEX REDUCING COUPLING NPT FEMALE x NPT FEMALE**



PART No.	P1	PP	OD	L	F
	NPTM	NPTM	inch	inch	HEX
MIPF/HRC/4-1I	1/8 "	1/16 "	0.34	0.92	3/4 "
MIPF/HRC/4-2I	1/4 "	1/8 "	0.34	1.22	3/4 "
MIPF/HRC/6-1I	3/8 "	1/16 "	0.34	0.95	7/8 "
MIPF/HRC/6-2I	3/8 "	1/8 "	0.34	1.03	7/8 "
MIPF/HRC/6-4I	3/8 "	1/4 "	0.45	1.38	7/8 "
MIPF/HRC/8-2I	1/2 "	1/8 "	0.34	1.56	1-11/16 "
MIPF/HRC/8-4I	1/2 "	1/4 "	0.45	1.75	1-11/16 "
MIPF/HRC/8-6I	1/2 "	3/8 "	0.59	1.78	1-11/16 "
MIPF/HRC/12-2I	3/4 "	1/4 "	0.34	1.39	1-3/8 "
MIPF/HRC/12-4I	3/4 "	3/8 "	0.45	1.69	1-3/8 "
MIPF/HRC/12-6I	3/4 "	1/2 "	0.45	1.69	1-3/8 "
MIPF/HRC/12-8I	3/4 "	1/8 "	0.73	2.06	1-3/8 "
MIPF/HRC/16-2I	1	1/8 "	0.41	1.44	1-5/8 "
MIPF/HRC/16-4I	1	1/4 "	0.45	1.63	1-5/8 "
MIPF/HRC/16-6I	1	3/8 "	0.45	1.63	1-5/8 "
MIPF/HRC/16-8I	1	1/2 "	0.73	2.19	1-5/8 "
MIPF/HRC/16-12I	1	3/4 "	0.94	2.25	1-5/8 "

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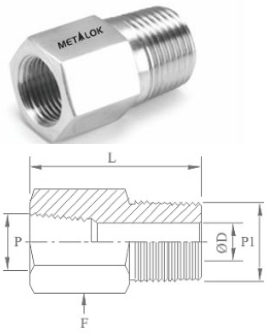
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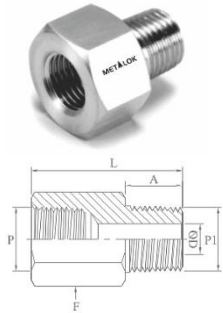


**ADAPTER NPT TO NPT Female X Male**



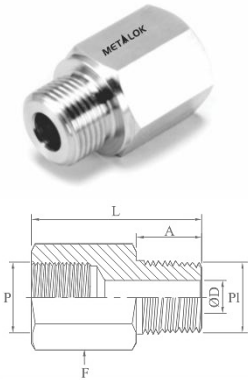
PART No.	P1	P1	OD	L	F
	NPTM	NPTM	inch	inch	HEX
MIPF/A/2-2I	1/8 "	1/8 "	0.19	1.10	9/16 "
MIPF/A/4-4I	1/4 "	1/4 "	0.28	1.40	3/4 "
MIPF/A/6-6I	3/8 "	3/8 "	0.38	1.51	7/8 "
MIPF/A/8-8I	1/2 "	1/2 "	0.47	1.94	1-1/16 "
MIPF/A/12-12I	3/4 "	3/4 "	0.62	2.02	1-5/6 "
MIPF/A/16-16I	1 "	1 "	0.88	2.28	1-5/8 "

**ADAPTER BSPT TO NPT Female X Male**



PART No.	P1	P1	OD	L	A	F
	BSPTF	BSPTF				HEX
PF/A/IT-N/4I-4	1/4 "-19	1/4 "	7.1	36.3	14.2	3/4 "
MIPF/A/IT-N/6I-6	3/8 "-19	3/8 "	9.6	38.4	14.2	7/8 "
MIPF/A/IT-N/8I-8	1/2 "-14	1/2 "	11.9	49.8	19.1	1-1/16 "

**ADAPTER NPT TO BSPT Female X Male**



PART No.	P1	P1	OD	L	A	F
	NPTM	BSPTM				HEX
MIPF/A/N-IT/2I-2	1/8 "	1/8 "-28	4.8	27.7	9.7	9/16 "
MIPF/A/N-IT/4I-4	1/4 "	1/4 "-19	7.1	36.1	14.2	3/4 "
MIPF/A/N-IT/6I-6	3/8 "	3/8 "-19	9.6	38.1	14.2	7/8 "
MIPF/A/N-IT/8I-8	1/2 "	1/2 "-14	11.9	49.3	19.0	1-1/16 "
MIPF/A/N-IT/12I-12	3/4 "	3/4 "-14	15.8	51.3	19.0	1-5/6 "
MIPF/A/N-IT/16I-16	1 "	1 "-11	22.4	58.4	23.9	1-5/8 "

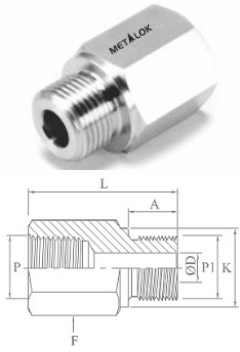
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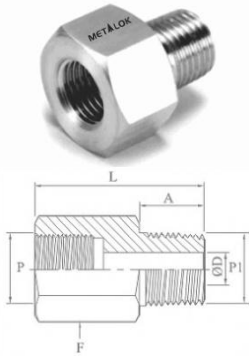


**ADAPTER NPT TO BSPP**



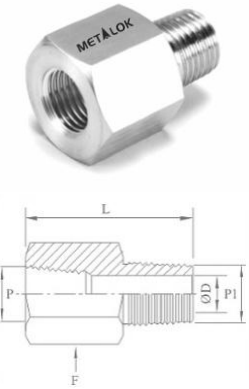
PART No.	P1	P1	OD	L	A	K	F
	NPTF	BSPTM					HEX
MIPF/A/N-IP/2I-2	1/8 "	1/8 "-28	4.1	25.1	7.1	13.8	9/16 "
MIPF/A/N-IP/4I-4	1/4 "	1/4 "-19	5.8	33.5	11.2	18.0	3/4 "
MIPF/A/N-IP/6I-6	3/8 "	3/8 "-19	7.9	35.8	11.2	21.8	7/8 "
MIPF/A/N-IP/8-8	1/2 "	1/2 "-14	11.9	44.2	14.2	26.0	1-1/16 "
MIPF/A/N-IP/12I-12	3/4 "	3/4 "-14	15.7	48.0	15.7	32.0	1-5/6 "
MIPF/A/N-IP/16I-16	1 "	1 "-11	19.8	53.3	18.3	39.0	1-5/8 "

**GAUGE ADAPTER BSPP TO NPT**



PART No.	P1	P1	OD	L	A	F
	BSPTM	NPTM				HEX
MIPF/GA/IP-N/4I-4	1/4 "-19	1/4 "	5.6	27.4	14.2	3/4 "
MIPF/GA/IP-N/6I-6	3/8 "-19	3/8 "	6.6	32.3	14.2	1-5/6 "
MIPF/GA/IP-N/8I-8	1/2 "-14	1/2 "	7.1	41.9	19.1	1-1/16 "

**REDUCING ADAPTER NPT TO NPT**



PART No.	P	P1	OD	L	F
	NPTM	NPTM	inch	inch	HEX
MIPF/FW2-1I	1/8 "	1/16 "	0.12	1.03	9/16 "
MIPF/RA/4-1I	1/4 "	1/16 "	0.12	1.20	3/4 "
MIPF/RA/4-2I	1/4 "	1/8 "	0.19	1.25	3/4 "
MIPF/FW6-1I	3/8 "	1/16 "	0.19	1.25	7/8 "
MIPF/RA/6-2I	3/8 "	1/8 "	0.19	1.33	7/8 "
MIPF/FW6-4I	3/8 "	1/4 "	0.28	1.50	7/8 "
MIPF/FW8-2I	1/2 "	1/8 "	0.19	1.58	1-11/16 "
MIPF/FW8-4I	1/2 "	1/4 "	0.28	1.75	1-11/16 "
MIPF/RA/8-6I	1/2 "	3/8 "	0.38	1.75	1-11/16 "
MIPF/RA/12-2I	3/4 "	1/4 "	0.36	1.56	1-3/8 "
MIPF/FW12-4I	3/4 "	3/8 "	0.28	1.82	1-3/8 "
MIPF/FW12-6I	3/4 "	1/2 "	0.38	1.82	1-3/8 "
MIPF/RA/12-8I	3/4 "	1/8 "	0.47	2.02	1-3/8 "
MIPF/FW16-2I	1	1/8 "	0.36	1.81	1-5/8 "
MIPF/RA/16-4I	1	1/4 "	0.28	1.95	1-5/8 "
MIPF/RA/16-6I	1	3/8 "	0.38	1.95	1-5/8 "
MIPF/FW16-8I	1	1/2 "	0.47	2.16	1-5/8 "
MIPF/FW16-12I	1	3/4 "	0.62	2.16	1-5/8 "

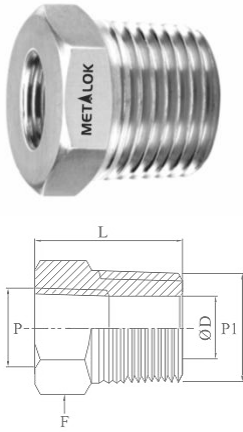
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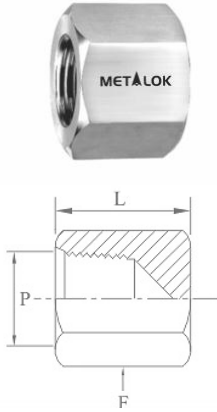


**REDUCING BUSHING**  
**NPT X NPT(Male X Female)**



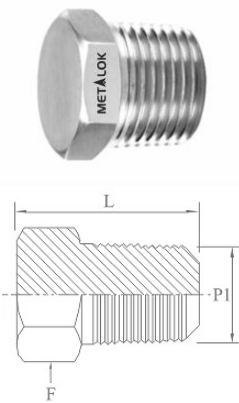
PART No.	P1	P	L	OD	F
	NPTM	NPTM			HEX
MIPF/RB/21-1I	1/8 "	1/16 "	26.2	4.8	7/16 "
MIPF/RB/4I-2I	1/4 "	1/8 "	26.9	7.1	9/16 "
MIPF/RB/6I-2I	3/8 "	1/8 "	21.8	8.6	11/16 "
MIPF/RB/6I-4I	3/8 "	1/4 "	30.2	9.5	3/4 "
MIPF/RB/8I-4I	1/2 "	1/4 "	27.4	11.4	7/8 "
MIPF/RB/8I-6I	1/2 "	3/8 "	35.8	11.9	7/8 "
MIPF/RB/12I-4I	3/4 "	1/4 "	27.4	11.4	1-11/16 "
MIPF/RB/12I-6I	3/4 "	3/8 "	27.4	15.0	1-11/16 "
MIPF/RB/12I-8I	3/4 "	1/2 "	41.4	15.7	1-11/16 "
MIPF/RB/16I-4I	1	1/4 "	34.8	11.4	1-3/8 "
MIPF/RB/16I-6I	1	3/8 "	34.8	15.0	1-3/8 "
MIPF/RB/16I-8I	1	1/2 "	34.8	18.5	1-3/8 "
MIPF/RB/161-12I	1	3/4 "	47.0	22.4	1-3/8 "

**PIPE CAP NPT Female**



PART No.	P1	L	F
	NPTM	INCH	HEX
MIPF/PC/2I	1/8 "	0.75	9/16 "
MIPF/PC/4I	1/4 "	0.91	3/4 "
MIPF/PC/6I	3/8 "	1.03	7/8 "
MIPF/PC/8I	1/2 "	1.34	1-1/16 "
MIPF/PC/12I	3/4 "	1.44	1-5/6 "
MIPF/PC/16I	1 "	1.63	1-5/8 "

**HEX PLUG NPT Male**



PART No.	P1	F	L
	NPTM	HEX	mm
MIPF/HP/1I	1/16 "	7/16 "	19
MIPF/HP/2I	1/8 "	7/16 "	19
MIPF/HP/4I	1/4 "	5/8 "	25.4
MIPF/HP/6I	3/8 "	3/4 "	27
MIPF/HP/8I	1/2 "	7/8 "	33.3
MIPF/HP/12I	3/4 "	1-1/8 "	35
MIPF/HP/16I	1 "	1-3/8 "	42.8
MIPF/HP/32I	1-1/4 "	1-3/4 "	48
MIPF/HP/38I	1-1/2 "	2 "	54.2

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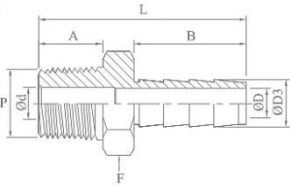
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**MALE TO HOSE CONNECTOR**

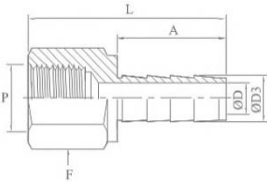
**Hose OD to NPT Male**



PART No.	OD3 HOSE	P1 NPTM	OD	Od	B	A	L	F HEX	
MIPF/MHC/2I-2	1/8 "	3.80	1/8 "	2.0	4.8o	10.2	9.7o	27.4	7/16 "
MIPF/MHC/2I-4	1/8 "	3.80	1/4 "	2.0	7.10	10.2	14.2	32.0	9/16 "
MIPF/MHC/3I-2	3/16 "	5.84	1/8 "	3.0	3.00	15.o	9.70	32.3	7/16 "
MIPF/MHC/3I-4	3/16 "	5.84	1/4 "	3.0	7.10	15.o	14.2	36.8	9/16 "
MIPF/MHC/4I-2	1/4 "	7.62	1/8 "	4.8	4.80	20.1	9.70	37.3	7/16 "
MIPF/MHC/4I-4	1/4 "	7.62	1/4 "	4.8	4.80	20.1	14.2	41.9	9/16 "
MIPF/MHC/4I-6	1/4 "	7.62	3/8 "	4.8	4.80	20.1	14.2	42.2	11/16 "
MIPF/MHC/4I-8	1/4 "	7.62	1/2 "	4.8	11.9	20.1	19.0	47.0	7/8 "
MIPF/MHC/5I-2	5/16 "	9.65	1/8 "	4.8	4.80	22.1	9.70	39.4	7/16 "
MIPF/MHC/5I-4	5/16 "	9.65	1/4 "	4.8	4.80	22.1	14.2	43.9	9/16 "
MIPF/MHC/5I-6	5/16 "	9.65	3/8 "	4.8	4.80	22.1	14.2	44.2	11/16 "
MIPF/MHC/5I-8	5/16 "	9.65	1/2 "	4.8	11.9	22.1	19.0	49.8	7/8 "
MIPF/MHC/6I-4	3/8 "	11.43	1/4 "	7.6	7.60	22.1	14.2	43.9	9/16 "
MIPF/MHC/6I-6	3/8 "	11.43	3/8 "	17.6	7.60	22.1	14.2	44.2	11/16 "
MIPF/MHC/6I-8	3/8 "	11.43	1/2 "	7.6	7.60	22.1	19.0	49.8	7/8 "
MIPF/MHC/8I-4	1/2 "	15.24	3/8 "	9.5	7.10.	23.8	14.2	45.7	11/16 "
MIPF/MHC/8I-6	1/2 "	15.24	1/2 "	9.5	9.50	23.8	14.2	46.0	11/16 "
MIPF/MHC/8I-8	1/2 "	15.24	1/2 "	9.5	9.50	23.8	19.0	51.6	7/8 "
MIPF/MHC/10I-8	5/8 "	19-10	1/2 "	11.9	11.9	24.9	19.0	52.6	1-1/16 "
MIPF/MHC/10I-12	5/8 "	19-10	3/4 "	12.7	16.0	24.9	19.0	52.6	1-1/16 "
MIPF/MHC/12I-8	3/4 "	22.86	1/2 "	16.0	11.9	26.7	19.0	54.4	1-1/16 "
MIPF/MHC/12I-12	3/4 "	22.86	3/4 "	16.0	16.0	26.7	19.0	54.4	1-1/16 "
MIPF/MHC/12I-16	3/4 "	22.86	1 "	16.0	22.4	26.7	23.9	61.7	13/8 "
MIPF/MHC/16I-12	1	30.48	3/4 "	22.4	16.0	30.2	19.0	60.5	13/8 "
MIPF/MHC/16I-16	1	30.48	1 "	22.4	22.4	30.2	23.9	60.5	13/8 "

**FEMALE TO HOSE CONNECTOR**

**Hose OD to NPT Female**



PART No.	OD3 HOSE	P NPTF	OD	A	L	F HEX	
MIPF/FHC/2I-2	1/8 "	3.80	1/8 "	2.00	10.2	28.2	9/16 "
MIPF/FHC/2I-4	1/8 "	3.80	1/4 "	2.00	10.2	32.0	3/4 "
MIPF/FHC/3I-2	3/16 "	5.84	1/8 "	3.00	15.0	32.8	9/16 "
MIPF/FHC/3I-4	3/16 "	5.84	1/4 "	3.00	15.0	36.6	3/4 "
MIPF/FHC/4I-2	1/4 "	7.62	1/8 "	4.80	20.1	37.3	9/16 "
MIPF/FHC/4I-4	1/4 "	7.62	1/4 "	4.80	20.1	41.7	3/4 "
MIPF/FHC/4I-6	1/4 "	7.62	3/8 "	4.80	20.1	43.4	7/8 "
MIPF/FHC/5I-4	5/16 "	9.65	1/4 "	4.80	22.1	43.9	3/4 "
MIPF/FHC/5I-6	5/16 "	9.65	3/8 "	4.80	22.1	46.2	7/8 "
MIPF/FHC/6I-4	3/8 "	11.43	1/4 "	7.60	22.1	42.9	3/4 "
MIPF/FHC/6I-6	3/8 "	11.43	3/8 "	7.60	22.1	45.2	7/8 "
MIPF/FHC/6I-8	3/8 "	11.43	1/2 "	7.60	22.1	51.6	1-1/16 "
MIPF/FHC/8I-8	1/2 "	15.24	1/2 "	9.70	23.9	54.1	1-1/16 "

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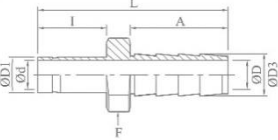
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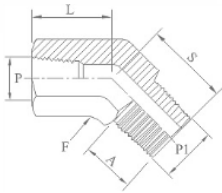
**TUBE TO HOSE CONNECTOR**

**Hose ID to Tube OD**



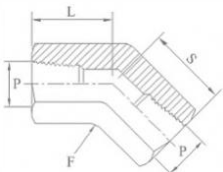
PART No.	OD3 HOSE	P1 NPTM	OD1	OD	od	L	A	I	F HEX
MIPF/THC/2I-2	1/8 "	3.80	1/8 "	1/8 "	2.0	2.30	34.3	10.2	13.5 5/16 "
MIPF/THC/2I-4	1/8 "	3.80	1/4 "	1/4 "	2.0	4.80	36.6	10.2	15.7 3/8 "
MIPF/THC/4I-4	1/4 "	7.62	1/8 "	1/4 "	4.80	4.80	46.5	20.1	15.7 7/16 "
MIPF/THC/4I-6	1/4 "	7.62	1/4 "	3/8 "	4.80	7.10	48.3	20.1	17.5 7/16 "
MIPF/THC/5I-4	5/16 "	9.40	1/8 "	1/4 "	4.80	4.80	48.5	22.1	15.7 7/16 "
MIPF/THC/6I-6	3/8 "	11.43	3/8 "	3/8 "	7.60	7.10	50.3	22.1	17.5 9/16 "
MIPF/THC/6I-8	3/8 "	11.43	1/2 "	1/2 "	7.60	9.90	55.9	22.1	23.1 5/8 "
MIPF/THC/8I-6	1/2 "	15.24	3/8 "	3/8 "	9.70	7.10	52.1	23.9	17.5 11/16 "
MIPF/THC/8I-8	1/2 "	15.24	1/2 "	1/2 "	9.70	9.90	57.7	23.9	23.1 11/16 "
MIPF/THC/12I-12	3/4 "	22.86	3/4 "	3/4 "	16.0	7.10	62.0	26.7	24.6 11/16 "

**45° ELBOW STREET**



PART No.	P	P1	L	S	A	F
	NPTF	NPTM	inch	inch	inch	HEX
MIPF/45ES/1-1I	1/16 "	1/16 "	0.47	0.66	0.38	7/16 "
MIPF/45 ES/2-2I	1/8 "	1/8 "	0.47	0.72	0.38	9/16 "
MIPF/45 ES/4-4I	1/4 "	1/4 "	0.63	1.05	0.56	3/4 "
MIPF/45 ES/6-6I	3/8 "	3/8 "	0.72	1.06	0.56	7/8 "
MIPF/45 ES/8-8I	1/2 "	1/2 "	0.91	1.34	0.75	1-1/16 "
MIPF/45 ES/12-12I	3/4 "	3/4 "	0.97	1.38	0.75	1-5/6 "
MIPF/45 ES/16-16I	1 "	1 "	1.13	1.13	0.94	1-5/8 "

**45° ELBOW FEMALE**



PART No.	P	L	S	F
	NPTF	inch	inch	HEX
MIPF/45EF/1I	1/16 "	0.47	0.47	7/16 "
MIPF/45EF/2	1/8 "	0.47	0.47	9/16 "
MIPF/45EF/4I	1/4 "	0.69	0.69	3/4 "
MIPF/45EF/6I	3/8 "	0.75	0.75	7/8 "
MIPF/45EF/8I	1/2 "	0.94	0.94	1-1/16 "
MIPF/45EF/12I	3/4 "	1.00	1.00	1-5/6 "
MIPF/45EF/16I	1 "	1.19	1.19	1-5/8 "

For BSP Threading Add BSP after part number

.Example FPF/HLN/2-2I/BSP

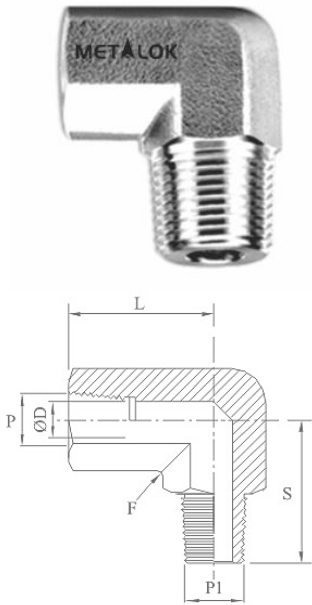
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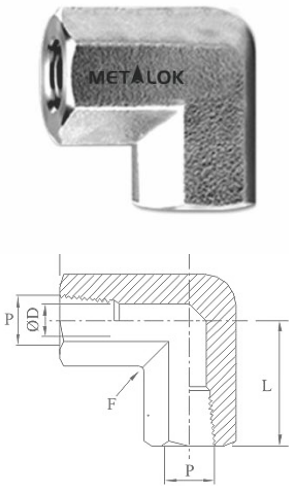


**ELBOW REDUCING STREET**  
**NPT X NPT(Male X Female)**



PART No.	P1	P	OD	L	S	F
	NPTM	NFTF	inch	inch	inch	HEX
MICF/ERS/2-1I	1/8 "	1/16 "	0.12	1.04	0.87	1/2 "
MICF/ERS/4-1I	1/4 "	1/16 "	0.12	1.09	1.00	9/16 "
MICF/ERS/4-2I	1/4 "	1/8 "	0.19	1.17	1.00	11/16 "
MICF/ERS/6-1I	3/8 "	1/16 "	0.19	1.09	1.26	3/4 "
MICF/ERS/6-2I	3/8 "	1/8 "	0.19	1.22	1.26	3/4 "
MICF/ERS/6-4I	3/8 "	1/4 "	0.28	1.42	1.26	13/16 "
MICF/ERS/8-2I	1/2 "	1/8 "	0.19	1.47	1.38	7/8 "
MICF/ERS/8-4I	1/2 "	1/4 "	0.28	1.56	1.38	7/8 "
MICF/ERS/8-6I	1/2 "	3/8 "	0.38	1.56	1.38	7/8 "
MICF/ERS/12-2I	3/4 "	1/4 "	0.36	1.59	1.67	1-1/6 "
MICF/ERS/12-4I	3/4 "	3/8 "	0.28	1.59	1.67	1-1/6 "
MICF/ERS/12-6I	3/4 "	1/2 "	0.38	1.59	1.67	1-1/6 "
MICF/ERS/12-8I	3/4 "	1/8 "	0.47	1.59	1.67	1-1/6 "
MICF/ERS16-2I	1	1/8 "	0.36	1.91	1.94	1-5/16 "
MICF/ERS/16-4I	1	1/4 "	0.28	1.91	1.94	1-5/16 "
MICF/ERS/16-6I	1	3/8 "	0.38	1.91	1.94	1-5/16 "
MICF/ERS/16-8I	1	1/2 "	0.47	1.91	1.94	1-5/16 "
MICF/ERS/16-12I	1	3/4 "	0.62	1.91	1.94	1-5/16 "

**ELBOW FEMALE**  
**NPT X NPT(Female X Female)**



PART No.	P	OD	L	F
	NFTF	inch	inch	HEX
MICF/EF/1-1I	1/16 "	0.28	0.50	7/16 "
MICF/EF/2-2I	1/8 "	0.34	1.04	1/2 "
MICF/EF/4-4I	1/4 "	0.45	1.17	11/16 "
MICF/EF/6-6I	3/8 "	0.59	1.42	13/16 "
MICF/EF/8-8I	1/2 "	0.73	1.56	1
MICF/EF/12-12	3/4 "	0.94	1.92	1-1/4 "
MICF/EF/16-16I	1 "	1.17	1.91	1-11/16 "

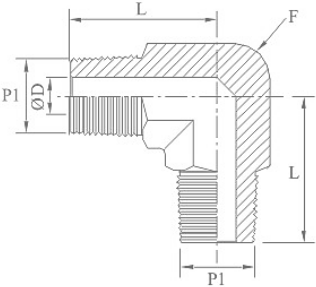
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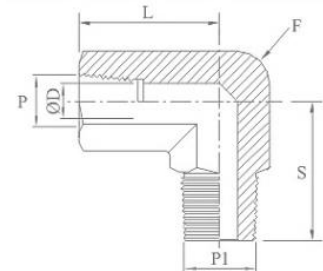


**MALE ELBOW NPT X NPT(Male X Male)**



PART No.	P	OD	L	F
	NPTF	inch	inch	HEX
MICF/ME/1I	1/16 "	0.19	0.66	3/8 "
MICF/ME/2I	1/8 "	0.19	0.88	7/16 "
MICF/ME/4I	1/4 "	0.28	1.05	9/16 "
MICF/ME/6I	3/8 "	0.38	1.17	11/16 "
MICF/ME/8I	1/2 "	0.47	1.45	7/8 "
MICF/ME/12I	3/4 "	0,65	1.59	1-1/16 "
MICF/ME/16I	1 "	0.87	1.87	1-3/8 "

**ELBOW STREET NPT X NPT(Male X Male)**



PART No.	P1	P	OD	L	S	F
	NPTF	NPTM	inch	inch		HEX
MICF/ES/1-1I	1/16 "	1/16 "	0.12	0.86	0.88	7/16 "
MICF/ES/2-2I	1/8 "	1/8 "	0.19	1.04	0.87	1/2 "
MICF/ES/4-4I	1/4 "	1/4 "	0.28	1.17	1.17	11/16 "
MICF/ES/6-6I	3/8 "	3/8 "	0.38	1.42	1.26	13/16 "
MICF/ES/8-8I	1/2 "	1/2 "	0.47	1.56	1.56	1
MICF/ES/12-12I	3/4 "	3/4 "	0.62	1.92	1.67	1-1/4 "
MICF/ES/16-16I	1 "	1 "	0.88	1.91	1.94	1-11/16 "

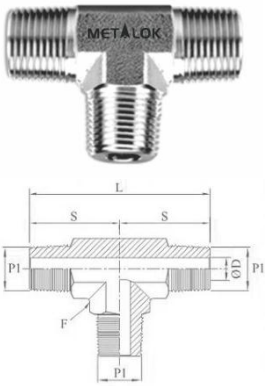
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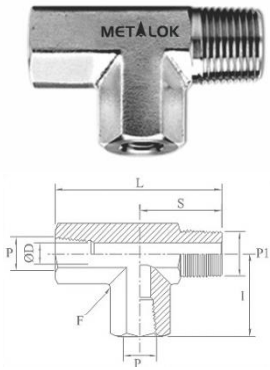
**TEE MALE**



PART No.	P	P1	OD	L	S	I	F
	NPTF	NPTM	inch	inch	inch	inch	HEX
MICF/TS/11-11	1/16 "	1/16 "	0.18	1.22	0.72	0.72	7/16 "
MICF/TS/21-21	1/8 "	1/8 "	0.19	1.91	0.87	1.04	9/16 "
MICF/TS/21-21	1/4 "	1/4 "	0.28	2.34	1.17	1.17	11/16 "
MICF/TS/61-61	3/8 "	3/8 "	0.38	2.68	1.26	1.42	7/8 "
MICF/TS/81-81	1/2 "	1/2 "	0.47	3.12	1.56	1.42	1-1/16"
MICF/TS/121-121	3/4 "	3/4 "	0.65	3.70	1.59	1.59	1-5/16 "
MICF/TS/161-161	1 "	1 "	0.87	4.50	1.97	1.97	1-5/8 "

**TEE STREET**

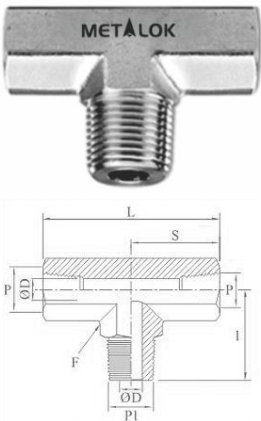
**Female X Female X Male Side**



PART No.	P	P1	OD	L	S	I	F
	NPTF	NPTM	inch	inch	inch	inch	HEX
MICF/TB/11-11	1/16 "	1/16 "	0.19	1.00	0.72	0.50	7/16 "
MICF/TB/21-21	1/8 "	1/8 "	0.19	2.08	0.87	1.04	1/2 "
MICF/TB/41-41	1/4 "	1/4 "	0.28	2.34	1.17	1.17	11/16 "
MICF/TB/61-61	3/8 "	3/8 "	0.38	2.84	1.42	1.42	7/8 "
MICF/TB/81-81	1/2 "	1/2 "	0.47	3.12	1.56	1.26	1-1/16 "
MICF/TB/121-121	3/4 "	3/4 "	0.64	2.72	1.59	1.36	1-1/4 "
MICF/TB/161-161	1 "	1 "	0.86	3.26	1.97	1.63	1-5/8 "

**TEE BRANCH**

**Female X Female X Male Centre**



PART No.	P	P1	OD	L	S	I	F
	NPTF	NPTM	inch	inch	inch	inch	HEX
MIPF/TS/11-11	1/16 "	1/16 "	0.19	1.00	0.72	0.50	7/16 "
MIPF/TS/21-21	1/8 "	1/8 "	0.19	2.08	0.87	1.04	1/12 "
MIPF/TS/41-41	1/4 "	1/4 "	0.28	2.34	1.17	1.17	11/16 "
MIPF/TS/61-61	3/8 "	3/8 "	0.38	2.84	1.42	1.42	7/8 "
MIPF/TS/81-81	1/2 "	1/2 "	0.47	3.12	1.56	1.26	1-1/16"
MIPF/TS/121-121	3/4 "	3/4 "	0.64	2.72	1.59	1.36	1-1/4 "
MIPF/TS/161-161	1 "	1 "	0.86	3.26	1.97	1.63	1-5/8 "

Dimensions are for reference only and subject to change without notice.

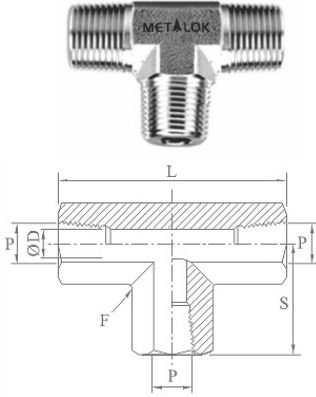
**Warning for Your Safety**

The system designer and user have the sole responsibility to select products suitable for their special application requirements to ensure the proper installation. Operation and maintenance of the product. Application details, material compatibility and product ratings should all be considered in the individual selection. Improper selection or use of products can cause property damage or personal injury. METALOK accepts no liability for any improper selection, installation, operation or maintenance.



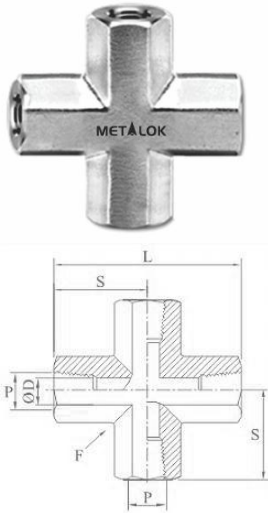


## TEE FEMALE



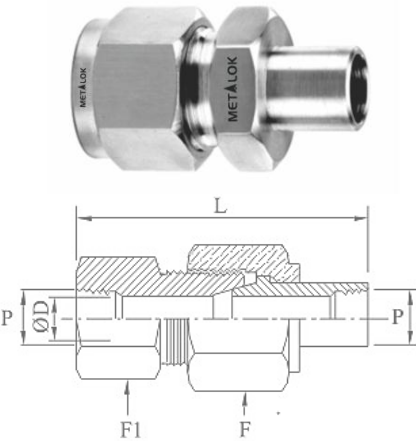
PART No.	P	L	S	OD	F
	NPTF	inch	inch	inch	HEX
MIPF/TF/1I	1/16 "	1.22	0.50	0.18	7/16 "
MIPF/TF/2I	1/8 "	1.91	1.04	0.34	9/16 "
MIPF/TF/4I	1/4 "	2.34	1.17	0.45	11/16 "
MIPF/TF/6I	3/8 "	2.68	1.42	0.59	13/16 "
MIPF/TF/8I	1/2 "	3.12	1.56	0.73	1-1/16 "
MIPF/TF/12I	3/4 "	3.84	1.92	0.94	1-1/4 "
MIPF/TF/16I	1 "	3.82	1.91	1.17	1-11/16 "

## CROSS FEMALE



PART No.	P	L	S	OD	F
	NPTF	inch	inch	inch	HEX
MIPF/CF/1I	1/16 "	1.22	0.50	0.25	7/16 "
MIPF/CF/2I	1/8 "	1.91	1.04	0.34	9/16 "
MIPF/CF/4I	1/4 "	2.34	1.17	0.45	11/16 "
MIPF/CF/6I	3/8 "	2.68	1.42	0.59	13/16 "
MIPF/CF/8I	1/2 "	3.12	1.56	0.73	1-1/16 "
MIPF/CF/12I	3/4 "	3.84	1.92	0.94	1-1/4 "
MIPF/CF/16I	1 "	3.82	1.91	1.17	1-11/16 "

## UNION BALL JOINT



PART No.	P	L	OD	F	F1
	NPTF	inch	inch	HEX	HEX
MIPF/UBJ/2I	1/8 "	1.81	0.27	1-1/8 "	15/16 "
MIPF/UBJ/4I	1/4 "	2.34	0.36	1-3/8 "	1-3/16 "
MIPF/UBJ/6I	3/8 "	2.50	0.52	1-1/2 "	1-5/16 "
MIPF/UBJ/8I	1/2 "	2.69	0.62	1-3/4 "	1-5/8 "
MIPF/UBJ/12I	3/4 "	3.12	0.88	2	1-7/8 "
MIPF/UBJ/16I	1 "	3.56	1.03	2-1/2 "	2-3/8 "

Dimensions are for reference only and subject to change without notice.

### Warning for Your Safety

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# Our Total customer satisfaction results in A True Partnership.



## CUSTOMER BASE

More than three decades of experience, expertise and dedication ensures world class quality and excellent performance of METALOK products resulted in establishing worldwide customer base.

## GRATITUDE

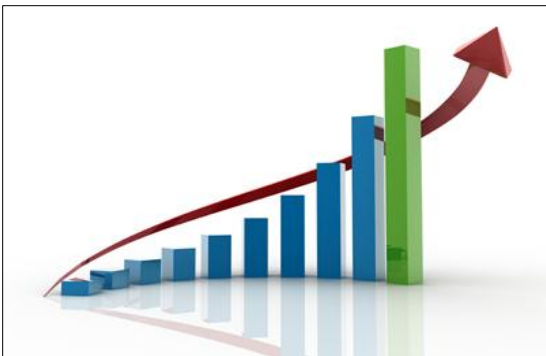
We at METALOK always appreciated and thankful to all our Valued Customers for undaunted support and faith reposed on us which motivates us to perform better all the time

## EDGE

Our in-house Design, manufacturing and Testing facilities only emphasizes that METALOK Fitting and Valves are one of the Best, versatile, safe, compatible, easy for installation and operation in Instrumentation, Hydraulic and Industrial applications.

## OUR GOAL

Our company's vision is to understand our customers requirements and meet them fully to their entire satisfaction by way of high quality, timely delivery, competitive price and prompt service.



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**METALOK INDUSTRIES**  
(AN ISO 9001: 2008 Certified Company)

**Regd Office & Unit : G-16 & 21, Nikisha Industrial Estate , Near Pandurang wadi, Western Express Highway, Mira Road East, Thane 401 107.**



+91 22 28453235  
+91 9869552950 (Hassan Shaikh)  
+91 9892277161 (Rehan Shaikh)



metalokindustries@gmail.com  
sales@metalokindustries.com  
metalok@live.com



[www.metalokindustries.com](http://www.metalokindustries.com)

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**METALOK INDUSTRIES**

[sales@metalokindustries.com](mailto:sales@metalokindustries.com)



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