

Intstrumentation
TUBE FITTINGS



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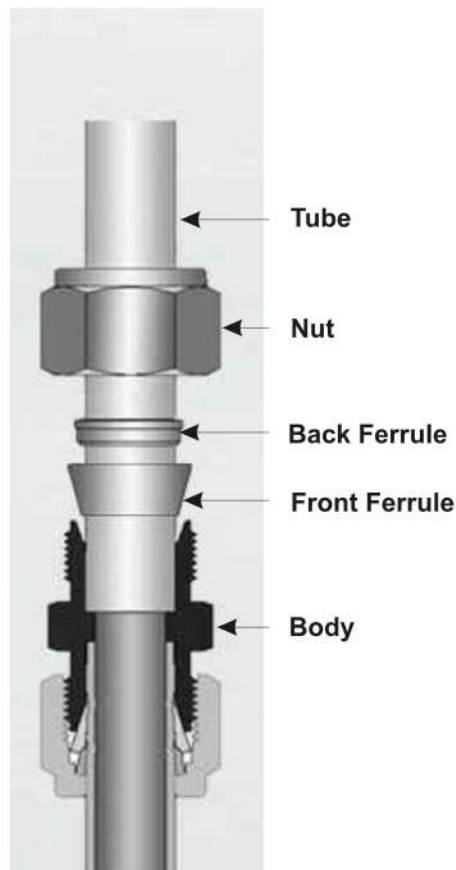
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Design & Features

- 1) **MET-LOK** Double Ferrule Tube Fittings consists of 4 precision machined components for a reliable LEAK PROOF joint.
- 2) Back Ferrules provide a excellent Mechanical and Anti Vibration hold on the Tube (available in SS 316 / 316L).
- 3) The Front Ferrule provides a Pressure Seal between the Tube and the Body.
- 4) The Nut is Silver plated to ensure No Galling on Body threads.
- 5) Design to compensate variation in Tubing materials, hardness and wall thickness.
- 6) **MET-LOK** Tube Fittings are Gaugeable for sufficient pull-up and allows repeated remakeability.
- 7) Available for inches and millimeter Tubes with the choice of Pipe threads, i.e NPT, BSP / BSPT, SAE/MS.

Interchangeability

MET-LOK Tube Fittings are designed manufactured and Quality controlled to be totally "interchangeable" with leading International brands. The exceptional quality standards of our products assures complete reliability of service whenever intermixed with these brands.



Function

To provide a reliable, leak-proof connection in instrumentation and process tubing systems **MET-LOK** Tube Fitting are available assembled and ready to use with a variety of tubing materials. All you need is the right selection of tubing and a simple vice and standard spanners to assemble these joints. Just insert the tube and tighten the nut as per assembly instructions provided (1.1/4 turn from finger-tight) and the joint is ready for low to high pressure applications.

The front ferrule, as it is urged forward against the tapered area of the body, is forced inward, gripping and subsequently sealing the leading edge tightly onto the tubing. Simultaneously, the back ferrule, dove-tailed directly behind the front ferrule, swages beneath its trailing edge, affording the desired "coining" action and mechanical connection of tubing and fitting. It is this interaction of ferrules that allows **MET-LOK** tube fitting to achieve its excellent sealing capabilities under a wide variety of application variables.

مت لوک (کیش)

Material Standard / Designator

MET-LOK Tube Fittings are available as standard in Stainless Steel 316/316L Brass and Monel. Straight Fittings are machined from Finished bar stock and shaped bodies from forgings. Specifications for Fitting materials and tubings are listed in table as below.

Material	Bar Stock	Forgings	Designator
SS 316/316L	ASTM A 276 ASME SA 479	ASTM A182 ASME SA182	S6 / S6L
Brass	ASTM B 16 ASTM B 453	ASTM B 283	B
Carbon Steel	ASTM A 108	--	CS
Alluminum	ASTM B 211	ASTM B 247	AL
Alloy 400 / R-405 (Monel)	ASTM B 164 ASME SB 164	ASTM B 564 ASME SB 564	M
Alloy 600	ASTM B 166 ASME SB 166	ASTM B564 ASME SB564	A6
Alloy 20	ASTM B 473	ASTM B 462	A20
Alloy C276	ASTM B 574	ASTM B 564	H
Titanium	ASTM B 348	ASTM B 381	TI
PTFE	ASTM D 1710	--	T

Ordering Information

For Ordering **MET-LOK** Tube Fitting, just insert the Material Code as shown in the Table above before the basic Part Number, given in this Catalogue.

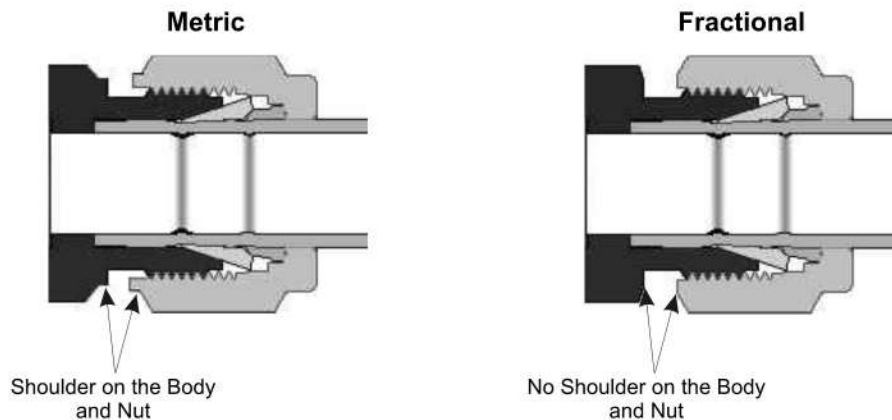
Example:

S6 - M8 - MC - 8N

Material Code (Refer Table) Basic Part Number

Identification of MET-LOK Fractional & Metric Tube Fitting

MET-LOK Tubelok Metric Tube Fittings are identified by Stepped shoulder on the Body and Nut, as illustrated in the figure.



مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

TUBE TO MALE PIPE THREAD

Male Connector-MC



Fractional Tube X NPT(M)
Metric Tube X NPT(M)
Fractional Tube X BSPT(M)
Metric Tube X BSPT(M)
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Male Connector-MC



Fractional Tube X BSP(M)
Metric Tube X BSP(M)
Page 09

Male Connector - RP Type-MC



Fractional Tube X BSP(M)
Metric Tube X BSP(M)
Page 10

Bulk Head Male Connector-BMC



Fractional Tube X NPT(M)
Metric Tube X NPT(M)

Page 11

Male Elbow-ME



Fractional Tube X NPT(M)
Metric Tube X NPT(M)
Fractional Tube X BSPT(M)
Metric Tube X BSPT(M)
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45° Male Elbow-45ME



Fractional Tube X NPT(M)

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Male Branch Tee-MBT



Fractional Tube X NPT(M)
Metric Tube X NPT(M)
Page 14

Male Run Tee-MRT



Fractional Tube X NPT(M)
Metric Tube X NPT(M)
Page 15

TUBE TO FEMALE PIPE THREAD

Female Connector-FC



Fractional Tube X NPT(F)
Metric Tube X NPT(F)
Page 16

Female Connector-FC



Fractional Tube X BSPT(F)
Metric Tube X BSPT(F)
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Female Connector-FC



Fractional Tube X BSP(F) (Gauge)
Metric Tube X BSP(F) (Gauge)
Page 18

Bulk Head Female Connector-BFC



Fractional Tube X NPT(F)
Metric Tube X NPT(F)
Page 19

Female Elbow-FE



Fractional Tube X NPT(F)
Metric Tube X NPT(F)
Page 20

Female Run Tee-FRT



Fractional Tube X NPT(F)
Metric Tube X NPT(F)
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Female Branch Tee-FBT



Fractional Tube X NPT(F)
Metric Tube X NPT(F)
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مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

TUBE TO TUBE

Union-U



Fractional Tube X Fractional Tube
Metric Tube X Metric Tube
Metric Tube X Fractional Tube

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Reducer Union-RU



Fractional Tube X Fractional Tube
Metric Tube X Metric Tube

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Bulk Head Union-BU



Fractional Tube X Fractional Tube
Metric Tube X Metric Tube

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Union Elbow-UE



Fractional Tube X Fractional Tube
Metric Tube X Metric Tube

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Union Tee-UT



Fractional Tube X Fractional Tube
Metric Tube X Metric Tube

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Union Cross-UC



Fractional Tube X Fractional Tube
Metric Tube X Metric Tube

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PORT CONNECTOR

Reducer-R



Fractional Tube X Fractional Stub
Metric Tube X Fractional Stub
Metric Tube X Metric Stub

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Bulk Head Reducer-BR



Fractional Tube X Fractional Stub

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Port Connector-PC



Connects
Two Fractional Stub
Two Metric Stub

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Reducer Port Connector-RPC



Connects
Two Fractional Stub
Two Metric Stub

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Male Adapter-MA



Fractional Stub X BSPT(M)
Metric Stub X BSPT(M)

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Male Adapter-MA



Fractional Stub X NPT(M)
Metric Stub X NPT(M)

Page 32

Female Adapter-FA



Fractional Stub X NPT(F)
Metric Stub X NPT(F)

Page 33

Female Adapter-FA



Fractional Stub X BSPT(F)
Metric Stub X BSPT(F)

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Female Adapter-FA



Fractional Stub X BSP(F)
Metric Stub X BSP(F)

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Female Adapter-FA



Fractional Stub X BSP(F)(Gauge)
Metric Stub X BSP(F)(Gauge)

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مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

TUBE ENDS

Cap-TC



Fractional Tube
Metric Tube

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Plug - Port Ends-TP



Fractional Tube
Metric Tube

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WELD FITTINGS

Tube Socket Weld Union-TSWU



Fractional Tube

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Male Pipe Weld Connector-MPWC



Fractional Tube
Metric Tube

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Tube Socket Weld Elbow-TSWE



Fractional Tube

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Male Pipe Weld Elbow-MPWE



Fractional Tube

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SPECIAL FITTING

Integral Flange Connector ANSI Flange-IFC



Fractional Tube / Metric Tube
X 150#/ 300#

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SPARE COMPONENTS

Back Ferrule-BF



Fractional Tube
Metric Tube

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Front Ferrule-FF



Fractional Tube
Metric Tube

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Nut-N



Fractional Tube
Metric Tube

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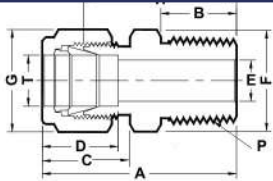
مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Male Connector NPT(M)

For Fractional Tube
x NPT(M)



Part No.	Tube OD (T)	NPT Thread (P)	A	B	C	D	E	F (Hex)	G	H
M1-MC-1N	1/16	1/16	0.94	0.38	0.43	0.34	0.05	5/16	5/16	0.79
M1-MC-2N	1/16	1/8	1.03	0.38	0.43	0.34	0.05	7/16	5/16	0.88
M1-MC-4N	1/16	1/4	1.22	0.56	0.43	0.34	0.05	9/16	5/16	1.07
M2-MC-1N	1/8	1/16	1.17	0.38	0.6	0.50	0.09	7/16	7/16	0.91
M2-MC-2N	1/8	1/8	1.20	0.38	0.6	0.50	0.09	7/16	7/16	0.94
M2-MC-4N	1/8	1/4	1.40	0.56	0.6	0.50	0.09	9/16	7/16	1.14
M2-MC-6N	1/8	3/8	1.41	0.56	0.6	0.50	0.09	11/16	7/16	1.45
M2-MC-8N	1/8	1/2	1.66	0.75	0.6	0.50	0.09	7/8	7/16	1.4
M3-MC-1N	3/16	1/16	1.23	0.38	0.64	0.50	0.12	7/16	1/2	0.97
M3-MC-2N	3/16	1/8	1.23	0.38	0.63	0.54	0.12	9/16	1/2	0.97
M3-MC-4N	3/16	1/4	1.43	0.56	0.63	0.54	0.12	9/16	1/2	1.17
M4-MC-1N	1/4	1/16	1.29	0.38	0.7	0.60	0.12	1/2	9/16	1.0
M4-MC-2N	1/4	1/8	1.29	0.38	0.7	0.60	0.19	9/16	9/16	1.0
M4-MC-4N	1/4	1/4	1.49	0.56	0.7	0.60	0.19	9/16	9/16	1.2
M4-MC-6N	1/4	3/8	1.51	0.56	0.7	0.60	0.19	11/16	9/16	1.22
M4-MC-8N	1/4	1/2	1.76	0.75	0.7	0.60	0.19	7/8	9/16	1.47
M4-MC-12N	1/4	3/4	1.82	0.75	0.7	0.60	0.19	1-1/16	9/16	1.53
M5-MC-2N	5/16	1/8	1.34	0.38	0.73	0.64	0.19	9/16	5/8	1.05
M5-MC-4N	5/16	1/4	1.52	0.56	0.73	0.64	0.25	9/16	5/8	1.23
M5-MC-6N	5/16	3/8	1.54	0.56	0.73	0.64	0.25	11/16	5/8	1.5
M5-MC-8N	5/16	1/2	1.79	0.75	0.73	0.60	0.25	7/8	5/8	1.25
M6-MC-2N	3/8	1/8	1.39	0.38	0.76	0.66	0.19	11/16	11/16	1.1
M6-MC-4N	3/8	1/4	1.57	0.56	0.76	0.66	0.28	11/16	11/16	1.28
M6-MC-6N	3/8	3/8	1.57	0.56	0.76	0.66	0.28	11/16	11/16	1.28
M6-MC-8N	3/8	1/2	1.82	0.75	0.76	0.66	0.28	7/8	11/16	1.53
M6-MC-12N	3/8	3/4	1.88	0.75	0.76	0.66	0.28	1-1/16	11/16	1.59
M8-MC-2N	1/2	1/8	1.53	0.38	0.86	0.90	0.19	7/8	7/8	1.13
M8-MC-4N	1/2	1/4	1.71	0.56	0.86	0.90	0.28	7/8	7/8	1.31
M8-MC-6N	1/2	3/8	1.71	0.56	0.86	0.90	0.38	7/8	7/8	1.31
M8-MC-8N	1/2	1/2	1.93	0.75	0.86	0.90	0.41	7/8	7/8	1.53
M8-MC-12N	1/2	3/4	1.99	0.75	0.86	0.90	0.41	1-1/16	7/8	1.59
M8-MC-16N	1/2	1	2.25	0.94	0.86	0.90	0.41	1-3/8	7/8	1.85
M10-MC-6N	5/8	3/8	1.74	0.56	0.86	0.96	0.38	1-1/16	1	1.34
M10-MC-8N	5/8	1/2	1.93	0.75	0.86	0.96	0.47	1-1/16	1	1.53
M10-MC-12N	5/8	3/4	1.99	0.75	0.86	0.96	0.50	1-1/16	1	1.59
M12-MC-8N	3/4	1/2	1.99	0.75	0.86	0.96	0.47	1-1/16	1-1/8	1.59
M12-MC-12N	3/4	3/4	1.99	0.75	0.86	0.96	0.62	1-1/16	1-1/8	1.59
M12-MC-16N	3/4	1	2.25	0.94	0.86	0.96	0.62	1-3/8	1-1/8	1.85
M14-MC-12N	7/8	3/4	1.99	0.75	0.86	1.02	0.62	1-3/16	1-1/4	1.59
M14-MC-16N	7/8	1	2.25	0.94	0.86	1.02	0.72	1-3/8	1-1/4	1.85
M16-MC-8N	1	1/2	2.26	0.75	1.04	1.23	0.47	1-3/8	1-1/2	1.78
M16-MC-12N	1	3/4	2.26	0.75	1.04	1.23	0.62	1-3/8	1-1/2	1.78
M16-MC-16N	1	1	2.45	0.94	1.04	1.23	0.88	1-3/8	1-1/2	1.97

Colour Coding

For easy reference, tables heads are color indicated

Fractional

Metric

مت لوک (کیش)

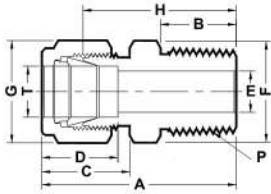
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MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Male Connector NPT(M)

For Metric Tube x NPT(M)



Part No.	Tube OD (T)	NPT Thread (P)	A	B	C	D	E	F (Hex)	G	H
M2M-MC-2N	2	1/8	30.5	9.7	15.3	12.9	1.7	12	12	23.9
M3M-MC-2N	3	1/8	30.5	9.7	15.3	12.9	2.4	12	12	23.9
M3M-MC-4N	3	1/4	35.6	14.2	15.3	12.9	2.4	14	12	29
M4M-MC-2N	4	1/8	31.2	9.7	16.1	13.7	2.4	12	12	24.6
M4M-MC-4N	4	1/4	36.3	14.2	16.1	13.7	2.4	14	12	29.7
M6M-MC-2N	6	1/8	32.8	9.7	17.7	15.3	4.2	14	14	25.4
M6M-MC-4N	6	1/4	37.9	14.2	17.7	15.3	4.2	14	14	30.5
M6M-MC-6N	6	3/8	38.4	14.2	17.7	15.3	4.2	18	14	31
M6M-MC-8N	6	1/2	44.7	19.0	17.7	15.3	4.2	22	14	37.3
M8M-MC-2N	8	1/8	34.2	9.7	18.6	16.2	4.2	15	16	26.7
M8M-MC-4N	8	1/4	38.7	14.2	18.6	16.2	6.4	15	16	31.2
M8M-MC-6N	8	3/8	39.3	14.2	18.6	16.2	6.4	18	16	31.8
M8M-MC-8N	8	1/2	45.6	19.0	18.6	16.2	6.4	22	16	38.1
M10M-MC-2N	10	1/8	36.3	9.7	19.5	17.2	4.8	18	19	28.7
M10M-MC-4N	10	1/4	40.9	14.2	19.5	17.2	7.9	18	19	33.3
M10M-MC-6N	10	3/8	40.9	14.2	19.5	17.2	7.9	18	19	33.3
M10M-MC-8N	10	1/2	46.5	19.0	19.5	17.2	7.9	22	19	38.9
M10M-MC-12N	10	3/4	48.0	19.0	19.5	17.2	7.9	27	19	40.4
M10M-MC-16N	10	1	55.0	23.8	19.5	26.0	21.8	22	32	47.5
M12M-MC-2N	12	1/8	38.8	9.7	22.0	22.8	4.8	22	22	28.7
M12M-MC-4N	12	1/4	43.4	14.2	22.0	22.8	7.1	22	22	33.3
M12M-MC-6N	12	3/8	43.4	14.2	22.0	22.8	9.5	22	22	33.3
M12M-MC-8N	12	1/2	49.0	19.0	22.0	22.8	9.5	22	22	38.9
M12M-MC-12N	12	3/4	50.5	19.0	22.0	22.8	9.5	27	22	40.4
M14M-MC-4N	14	1/4	44.1	14.2	22.0	24.4	7.1	24	25	34
M14M-MC-6N	14	3/8	44.1	14.2	22.0	24.4	9.5	24	25	34
M14M-MC-8N	14	1/2	49.0	19.0	22.0	24.4	11.1	24	25	38.9
M15M-MC-8N	15	1/2	49.0	19.0	22.0	24.4	11.9	24	25	38.9
M16M-MC-6N	16	3/8	44.1	14.2	22.0	24.4	9.5	24	25	34
M16M-MC-8N	16	1/2	49.0	19.0	22.0	24.4	11.9	24	25	38.9
M16M-MC-12N	16	3/4	50.5	19.0	22.0	24.4	12.7	27	25	40.4
M18M-MC-8N	18	1/2	50.5	19.0	22.0	24.4	11.9	27	30	40.4
M18M-MC-12N	18	3/4	50.5	19.0	22.0	24.4	15.1	27	30	40.4
M20M-MC-8N	20	1/2	52.3	19.0	22.0	26.0	11.9	30	32	42.2
M20M-MC-12N	20	3/4	52.3	19.0	22.0	26.0	15.9	30	32	42.2
M22M-MC-12N	22	3/4	52.3	19.0	22.0	26.0	15.9	30	32	42.2
M22M-MC-16N	22	1	57.1	23.9	22.0	26.0	18.3	35	32	47
M25M-MC-8N	25	1/2	57.5	19.0	26.5	31.3	11.9	35	38	45.2
M25M-MC-12N	25	3/4	57.5	19.0	26.5	31.3	15.9	35	38	45.2
M25M-MC-16N	25	1	62.3	23.9	26.5	31.3	21.8	35	38	50

مت لوک (کیش)

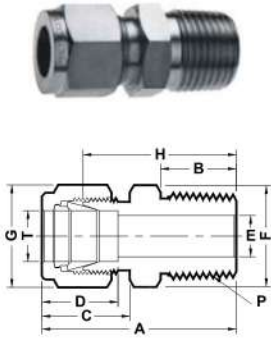
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MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Male Connector BSPT (M)

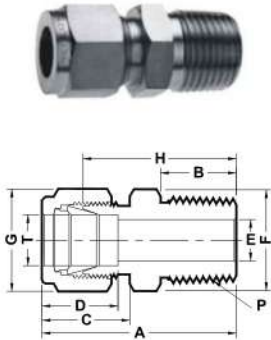
For Fractional Tube



Part No.	Tube OD (T)	BSPT Thread (P)	A	B	C	D	E	F (Hex)	G	H
M2-MC-2IT	1/8	1/8	1.20	0.38	0.6	0.50	0.09	7/16	7/16	0.94
M2-MC-4IT	1/8	1/4	1.40	0.56	0.6	0.50	0.09	9/16	7/16	1.14
M4-MC-2IT	1/4	1/8	1.29	0.38	0.7	0.60	0.19	1/2	9/16	1
M4-MC-4IT	1/4	1/4	1.49	0.56	0.7	0.60	0.19	9/16	9/16	1.2
M4-MC-6IT	1/4	3/8	1.51	0.56	0.7	0.60	0.19	11/16	9/16	1.22
M4-MC-8IT	1/4	1/2	1.76	0.75	0.7	0.60	0.19	7/8	9/16	1.47
M5-MC-2IT	5/16	1/8	1.34	0.38	0.73	0.64	0.19	9/16	5/8	1.05
M5-MC-4IT	5/16	1/4	1.52	0.56	0.73	0.64	0.25	9/16	5/8	1.23
M6-MC-2IT	3/8	1/8	1.39	0.38	0.76	0.66	0.19	5/8	11/16	1.1
M6-MC-4IT	3/8	1/4	1.57	0.56	0.76	0.66	0.28	5/8	11/16	1.28
M6-MC-6IT	3/8	3/8	1.57	0.56	0.76	0.66	0.28	11/16	11/16	1.28
M6-MC-8IT	3/8	1/2	1.82	0.75	0.76	0.66	0.28	7/8	11/16	1.53
M8-MC-4IT	1/2	1/4	1.71	0.56	0.86	0.90	0.28	13/16	7/8	1.31
M8-MC-6IT	1/2	3/8	1.71	0.56	0.86	0.90	0.38	13/16	7/8	1.31
M8-MC-8IT	1/2	1/2	1.93	0.75	0.86	0.90	0.41	7/8	7/8	1.53
M8-MC-12IT	1/2	3/4	1.99	0.75	0.86	0.90	0.41	1-1/16	7/8	1.59
M12-MC-12IT	3/4	3/4	1.99	0.75	0.86	0.96	0.62	1-1/16	1-1/8	1.59
M16-MC-16IT	1	1	2.45	0.94	1.04	1.23	0.88	1-3/8	1-1/2	1.97

Male Connector BSPT (M)

For Metric Tube



Part No.	Tube OD (T)	BSPT Thread (P)	A	B	C	D	E	F (Hex)	G	H
M2M-MC-2IT	2	1/8	30.5	9.7	15.3	12.9	1.7	12	12	23.9
M3M-MC-2IT	3	1/8	30.5	9.7	15.3	12.9	2.4	12	12	23.9
M3M-MC-4IT	3	1/4	35.6	14.2	15.3	12.9	2.4	14	12	29
M4M-MC-2IT	4	1/8	31.2	9.7	16.1	13.7	2.4	12	12	24.6
M4M-MC-4IT	4	1/4	36.3	14.2	16.1	13.7	2.4	14	12	29.7
M6M-MC-2IT	6	1/8	32.8	9.7	17.7	15.3	4.2	14	14	25.4
M6M-MC-4IT	6	1/4	37.9	14.2	17.7	15.3	4.2	14	14	30.5
M6M-MC-6IT	6	3/8	38.4	14.2	17.7	15.3	4.2	18	14	31
M6M-MC-8IT	6	1/2	44.7	19	17.7	15.3	4.2	22	14	37.3
M8M-MC-2IT	8	1/8	34.2	9.7	18.6	16.2	4.2	15	16	26.7
M8M-MC-4IT	8	1/4	38.7	14.2	18.6	16.2	6.4	15	16	31.2
M8M-MC-6IT	8	3/8	39.2	14.2	18.6	16.2	6.4	18	16	31.8
M8M-MC-8IT	8	1/2	45.6	19	18.6	16.2	6.4	22	16	38.1
M10M-MC-2IT	10	1/8	36.3	9.7	19.5	17.2	4.8	18	19	28.7
M10M-MC-4IT	10	1/4	40.9	14.2	19.5	17.2	7.9	18	19	33.3
M10M-MC-6IT	10	3/8	40.9	14.2	19.5	17.2	7.9	18	19	33.3
M10M-MC-8IT	10	1/2	46.5	19.0	19.5	17.2	7.9	22	19	38.9
M12M-MC-4IT	12	1/4	43.4	14.2	22.0	22.8	7.1	22	22	33.3
M12M-MC-6IT	12	3/8	43.4	14.2	22.0	22.8	9.5	22	22	33.3
M12M-MC-8IT	12	1/2	49.0	19.0	22.0	22.8	9.5	22	22	38.9
M12M-MC-12IT	12	3/4	50.5	19.0	22.0	22.8	9.5	27	22	40.4
M15M-MC-8IT	15	1/2	49.0	19.0	22.0	24.4	11.9	24	25	38.9
M16M-MC-4IT	16	1/4	44.1	14.2	22.0	24.4	7.1	24	25	34
M16M-MC-6IT	16	3/8	44.1	14.2	22.0	24.4	9.5	24	25	34
M16M-MC-8IT	16	1/2	49.0	19.0	22.0	24.4	11.9	24	25	38.9
M16M-MC-12IT	16	3/4	50.5	19.0	22.0	24.4	11.9	27	25	40.4
M18M-MC-8IT	18	1/2	50.5	19.0	22.0	24.4	11.9	27	30	40.4
M18M-MC-12IT	18	3/4	50.5	19.0	22.0	24.4	15.1	27	30	40.4
M20M-MC-8IT	20	1/2	52.3	19.0	22.0	26.0	11.9	30	32	42.2
M20M-MC-12IT	20	3/4	52.3	19.0	22.0	26.0	15.9	30	32	42.2
M22M-MC-12IT	22	3/4	52.3	19.0	22.0	26.0	15.9	30	32	42.2
M22M-MC-16IT	22	1	57.10	23.9	22.0	26.0	18.3	35	32	47
M25M-MC-12IT	25	3/4	57.5	19.0	26.5	31.3	15.9	35	38	45.2
M25M-MC-16IT	25	1	62.3	23.9	26.5	31.3	21.8	35	38	50

مت لوک (کیش)

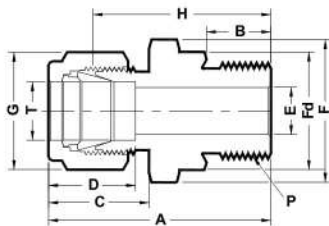
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Male Connector BSP(M)

For Fractional Tube

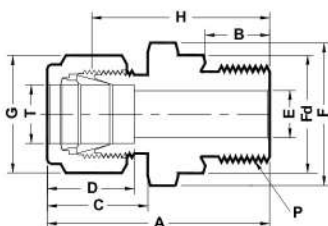


Part No.	Tube OD (T)	BSP(M) Thread (P)	A	B	C	D	E	F (Hex)	Fd	G	H
M2-MC-2IPP	1/8	1/8	1.18	0.28	0.60	0.50	0.09	9/16	0.54	7/16	0.92
M2-MC-4IPP	1/8	1/4	1.39	0.44	0.60	0.50	0.09	3/4	0.71	7/16	1.13
M4-MC-2IPP	1/4	1/8	1.27	0.28	0.70	0.60	0.19	9/16	0.54	9/16	0.98
M4-MC-4IPP	1/4	1/4	1.48	0.44	0.70	0.60	0.19	3/4	0.71	9/16	1.19
M8-MC-8IPP	1/2	1/2	1.93	0.56	0.86	0.90	0.41	1-1/16	1.02	7/8	1.53

RP parallel thread ends are commonly used with RP Gasket. Refer page 60 of this catalogue.

Male Connector BSP(M)

For Metric Tube

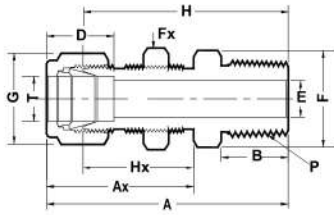


Part No.	Tube OD (T)	BSP(M) Thread (P)	A	B	C	D	E	F (Hex)	Fd	G	H
M3M-MC-2IPP	3	1/8	30.0	7.1	15.3	12.9	2.4	14	13.8	12	23.4
M3M-MC-4IPP	3	1/4	35.3	11.2	15.3	12.9	2.4	19	18.0	12	28.7
M4M-MC-2IPP	4	1/8	30.7	7.1	16.1	13.7	2.4	14	13.8	12	24.1
M6M-MC-2IPP	6	1/8	32.3	7.1	17.7	15.3	4.0	14	13.8	14	24.9
M6M-MC-4IPP	6	1/4	37.6	11.2	17.7	15.3	4.2	19	18.0	14	30.2
M6M-MC-6IPP	6	3/8	38.9	11.2	17.7	15.3	4.2	22	21.8	14	31.5
M6M-MC-8IPP	6	1/2	44.7	14.2	17.7	15.3	4.2	27	26.0	14	37.3
M8M-MC-2IPP	8	1/8	33.2	7.1	18.6	16.2	4.0	15	13.8	16	25.7
M8M-MC-4IPP	8	1/4	38.5	11.2	18.6	16.2	6.4	19	18.0	16	31
M8M-MC-6IPP	8	3/8	39.8	11.2	18.6	16.2	6.4	22	21.8	16	32.3
M8M-MC-8IPP	8	1/2	45.6	14.2	18.6	16.2	6.4	27	26.0	16	38.1
M10M-MC-4IPP	10	1/4	39.4	11.2	19.5	17.2	5.9	19	18.0	19	31.8
M10M-MC-6IPP	10	3/8	40.6	11.2	19.5	17.2	7.9	22	21.8	19	33
M10M-MC-8IPP	10	1/2	46.5	14.2	19.5	17.2	7.9	27	26.0	19	38.9
M12M-MC-4IPP	12	1/4	42.6	11.2	22.0	22.8	5.9	22	18.0	22	32.50
M12M-MC-6IPP	12	3/8	43.1	11.2	22.0	22.8	7.9	22	21.8	22	33
M12M-MC-8IPP	12	1/2	49.0	14.2	22.0	22.8	9.5	27	26.0	22	38.9
M12M-MC-12IPP	12	3/4	52.8	15.7	22.0	22.8	9.5	35	32.0	22	42.7
M15M-MC-8IPP	15	1/2	49.0	14.2	22.0	24.4	11.9	27	32.0	25	38.9
M16M-MC-6IPP	16	3/8	43.9	11.2	22.0	24.4	7.9	24	21.8	25	33.8
M16M-MC-8IPP	16	1/2	49.0	14.2	22.0	24.4	11.9	27	26.0	25	38.9
M18M-MC-8IPP	18	1/2	49.0	14.2	22.0	24.4	11.9	27	26.0	30	38.9
M18M-MC-12IPP	18	3/4	52.8	15.7	22.0	24.4	15.1	35	32.0	30	42.7
M20M-MC-8IPP	20	1/2	50.5	14.2	22.0	26.0	11.9	30	32.0	32	40
M20M-MC-12IPP	20	3/4	52.8	15.7	22.0	26.0	15.9	35	32.0	32	42.7
M22M-MC-12IPP	22	3/4	52.8	15.7	22.0	26.0	15.9	35	32.0	32	42.7
M22M-MC-16IPP	22	1	55.3	18.3	22.0	26.0	18.3	41	39.0	32	45.2
M25M-MC-12IPP	25	3/4	57.5	15.7	26.5	31.3	15.9	35	32.0	38	45.2
M25M-MC-16IPP	25	1	60.1	18.3	26.5	31.3	19.8	41	39.0	38	47.8

Note :All Dimension for reference only, subject to change

Bulk Head Male Connector NPT(M)

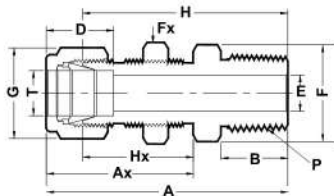
For Fractional Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	Ax	B	D	E	F (Hex)	Fx	G	H	Hx
M1-BMC-1N	1/16	1/16	1.19	0.68	0.38	0.34	0.09	5/16	5/16	5/16	1.11	0.53
M1-BMC-2N	1/16	1/8	1.27	0.68	0.38	0.34	0.09	7/16	7/16	5/16	1.57	0.53
M2-BMC-2N	1/8	1/8	1.83	1.23	0.38	0.50	0.09	1/2	1/2	7/16	1.57	0.97
M3-BMC-2N	3/16	1/8	1.89	1.26	0.38	0.54	0.19	9/16	9/16	1/2	1.66	1.00
M4-BMC-2N	1/4	1/8	1.95	1.32	0.38	0.60	0.19	5/8	5/8	9/16	1.66	1.03
M4-BMC-4N	1/4	1/4	2.13	1.32	0.56	0.60	0.19	5/8	5/8	9/16	1.84	1.03
M4-BMC-6N	1/4	3/8	2.16	1.31	0.56	0.60	0.19	11/16	11/16	9/16	2.08	1.02
M4-BMC-8N	1/4	1/2	2.37	1.31	0.75	0.60	0.19	7/8	7/8	9/16	1.77	1.02
M5-BMC-2N	5/16	1/8	2.08	1.42	0.38	0.64	0.19	11/16	11/16	5/8	1.96	1.12
M5-BMC-4N	5/16	1/4	2.27	1.42	0.56	0.64	0.25	11/16	11/16	5/8	1.78	1.12
M6-BMC-2N	3/8	1/8	2.08	1.44	0.38	0.66	0.19	3/4	3/4	11/16	1.97	1.50
M6-BMC-4N	3/8	1/4	2.26	1.15	0.56	0.66	0.28	3/4	3/4	11/16	1.97	1.16
M6-BMC-6N	3/8	3/8	2.26	1.45	0.56	0.66	0.28	3/4	3/4	11/16	1.97	1.16
M6-BMC-8N	3/8	1/2	2.51	1.45	0.75	0.66	0.28	7/8	3/4	11/16	2.22	1.16
M8-BMC-4N	1/2	1/4	2.49	1.65	0.56	0.90	0.28	15/16	15/16	7/8	2.09	1.25
M8-BMC-6N	1/2	3/8	2.49	1.65	0.56	0.90	0.38	15/16	15/16	7/8	2.09	1.25
M8-BMC-8N	1/2	1/2	2.71	1.65	0.75	0.90	0.41	15/16	15/16	7/8	2.31	1.25
M8-BMC-12N	1/2	3/4	2.72	1.65	0.75	0.90	0.41	1-1/8	1-1/8	7/8	2.22	1.25
M10-BMC-6N	5/8	3/8	2.62	1.68	0.56	0.96	0.38	1-1/16	1-1/16	1	2.41	1.28
M10-BMC-8N	5/8	1/2	2.81	1.68	0.75	0.96	0.47	1-1/16	1-1/16	1	2.6	1.28
M12-BMC-8N	3/4	1/2	3	1.87	0.75	0.96	0.47	1-3/16	1-3/16	1-1/8	2.6	1.47
M12-BMC-12N	3/4	3/4	3	1.87	0.75	0.96	0.62	1-3/16	1-3/16	1-1/8	2.60	1.47
M14-BMC-12N	7/8	3/4	3.31	2.09	0.75	1.02	0.62	1-3/8	1-3/8	1-1/4	3	1.69
M16-BMC-12N	1	3/4	3.54	2.27	0.75	1.23	0.62	1-5/8	1-5/8	1-1/2	3.19	1.78
M16-BMC-16N	1	1	3.67	2.26	0.94	1.23	0.88	1-5/8	1-5/8	1-1/2	3.19	1.78

Bulk Head Male Connector NPT(M)

For Metric Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	Ax	B	D	E	F (Hex)	Fx	G	H	Hx
M6M-BMC-2N	6	1/8	49.6	33.7	9.50	15.30	4.20	14	14	14	46.2	26.2
M6M-BMC-4N	6	1/4	53.6	33.6	14.2	15.30	4.20	16	16	14	44.8	28.5
M8M-BMC-2N	8	1/8	52.3	36	14.3	16.20	4.20	16	16	16	50	28.5
M8M-BMC-4N	8	1/4	57.5	36	14.3	16.20	4.20	16	16	16	50.80	29.4
M10M-BMC-4N	10	1/4	58.4	37	14.3	17.20	7.90	19	19	19	50.80	29.4
M12M-BMC-8N	10	3/8	58.4	37	14.3	17.20	7.90	19	19	19	5.80	29.4
M6M-BMC-4N	10	1/2	63.1	37	19	17.20	7.90	22	22	19	53.2	31.8
M12M-BMC-4N	12	1/4	63.3	41.9	14.3	22.80	7.10	24	24	22	54.4	31.8
M12M-BMC-6N	12	3/8	64.5	41.9	14.3	22.80	9.50	24	24	22	57.4	31.8
M12M-BMC-8N	12	1/2	68.8	41.9	19	22.80	9.50	24	24	22	57.4	31.8

مت لوک (کیش)

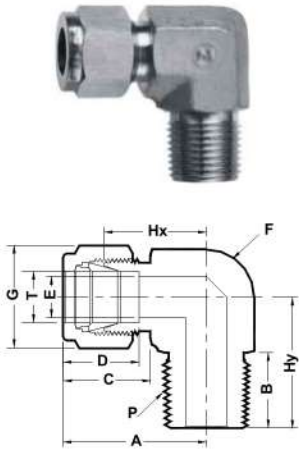
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Male Elbow NPT(M)

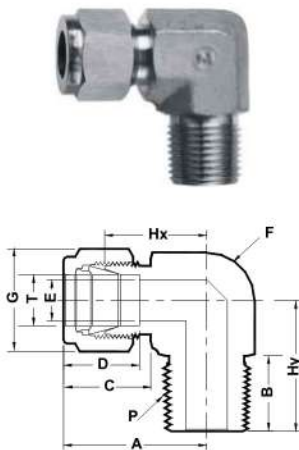
For Fractional Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	B	C	D	E	F (Hex)	G	HX	HY
M1-ME-1N	1/16	1/16	0.75	0.38	0.43	0.34	0.05	7/16	5/16	0.60	0.70
M1-ME-2N	1/16	1/8	0.75	0.38	0.43	0.34	0.05	7/16	5/16	0.60	0.70
M2ME-1N	1/8	1/16	0.93	0.38	0.60	0.50	0.09	7/16	7/16	0.67	0.70
M2-ME-2N	1/8	1/8	0.93	0.38	0.60	0.50	0.09	7/16	7/16	0.67	0.70
M2-ME-4N	1/8	1/4	0.97	0.56	0.60	0.50	0.09	1/2	7/16	0.71	0.92
M3-ME-2N	3/16	1/8	1.00	0.38	0.63	0.54	0.12	1/2	1/2	0.74	0.74
M3-ME-4N	3/16	1/4	1.00	0.56	0.63	0.54	0.12	1/2	1/2	0.74	0.92
M4-ME-1N	1/4	1/16	1.06	0.38	0.70	0.60	0.12	1/2	9/16	0.77	0.74
M4-ME-2N	1/4	1/8	1.06	0.38	0.70	0.60	0.19	1/2	9/16	0.77	0.74
M4-ME-4N	1/4	1/4	1.06	0.56	0.70	0.60	0.19	1/2	9/16	0.77	0.92
M4-ME-6N	1/4	3/8	1.17	0.56	0.70	0.60	0.19	11/16	9/16	0.88	1.03
M4-ME-8N	1/4	1/2	1.25	0.75	0.70	0.60	0.19	13/16	9/16	0.96	1.30
M5-ME-2N	5/16	1/8	1.13	0.38	0.73	0.64	0.19	9/16	5/8	0.84	0.78
M5-ME-4N	5/16	1/4	1.13	0.56	0.73	0.64	0.25	9/16	5/8	0.84	0.96
M5-ME-6N	5/16	3/8	1.20	0.56	0.73	0.64	0.25	11/16	5/8	0.91	1.03
M6-ME-2N	3/8	1/8	1.20	0.38	0.76	0.66	0.19	5/8	11/16	0.91	0.82
M6-ME-4N	3/8	1/4	1.20	0.56	0.76	0.66	0.28	5/8	11/16	0.91	1.00
M6-ME-6N	3/8	3/8	1.23	0.56	0.76	0.66	0.28	11/16	11/16	0.94	1.03
M6-ME-8N	3/8	1/2	1.31	0.75	0.76	0.66	0.28	13/16	11/16	1.02	1.30
M6-ME-12N	3/8	3/4	1.46	0.75	0.76	0.66	0.28	1-1/16	11/16	1.17	1.45
M8-ME-4N	1/2	1/4	1.42	0.56	0.86	0.90	0.28	13/16	7/8	1.02	1.11
M8-ME-6N	1/2	3/8	1.42	0.56	0.86	0.90	0.38	13/16	7/8	1.02	1.11
M8-ME-8N	1/2	1/2	1.42	0.75	0.86	0.90	0.41	13/16	7/8	1.02	1.30
M8-ME-12N	1/2	3/4	1.57	0.75	0.86	0.90	0.41	1-1/16	7/8	1.17	1.45
M10-ME-6N	5/8	3/8	1.50	0.56	0.86	0.96	0.38	15/16	1	1.10	1.19

Male Elbow NPT(M)

For Metric Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	B	C	D	E	F (Hex)	G	HX	HY
M3M-ME-2N	3	1/8	23.6	9.7	15.3	12.9	2.4	7/16	12	17.0	17.8
M3M-ME-4N	3	1/4	24.6	14.2	15.3	12.9	2.4	1/2	12	18.0	23.4
M4M-ME-2N	4	1/8	25.4	9.7	16.1	13.7	2.4	1/2	12	18.8	18.8
M4M-ME-4N	4	1/4	25.4	14.2	16.1	13.7	2.4	1/2	12	18.8	23.4
M6M-ME-2N	6	1/8	27.0	9.7	17.7	15.3	4.2	1/2	14	19.6	18.8
M6M-ME-4N	6	1/4	27.0	14.2	17.7	15.3	4.2	1/2	14	19.6	23.4
M6M-ME-6N	6	3/8	29.8	14.2	17.7	15.3	4.2	11/16	14	22.4	26.2
M6M-ME-8N	6	1/2	31.8	19.0	17.7	15.3	4.2	13/16	14	24.4	33.0
M8M-ME-2N	8	1/8	28.8	9.7	18.6	16.2	4.2	9/16	16	21.3	19.8
M8M-ME-4N	8	1/4	28.8	14.2	18.6	16.2	6.4	9/16	16	21.3	24.4
M8M-ME-6N	8	3/8	30.6	14.2	18.6	16.2	6.4	11/16	16	23.1	26.2
M8M-ME-8N	8	1/2	32.6	19.0	18.6	16.2	6.4	13/16	16	25.1	33.0
M10M-ME-2N	10	1/8	31.5	9.7	19.5	17.2	4.8	11/16	19	23.9	21.6
M10M-ME-4N	10	1/4	31.5	14.2	19.5	17.2	7.1	11/16	19	23.9	26.2
M10M-ME-6N	10	3/8	31.5	14.2	19.5	17.2	7.9	11/16	19	23.9	26.2
M10M-ME-8N	10	1/2	33.5	19.0	19.5	17.2	7.9	13/16	19	25.9	33.0
M12M-ME-4N	12	1/4	36.0	14.2	22.0	22.8	7.1	13/16	22	25.9	28.2
M12M-ME-6N	12	3/8	36.0	14.2	22.0	22.8	9.5	13/16	22	25.9	28.2
M12M-ME-8N	12	1/2	36.0	19.0	22.0	22.8	9.5	13/16	22	25.9	33.0
M12M-ME-12N	12	3/4	39.8	19.0	22.0	22.8	9.5	1-1/16	22	29.7	36.8
M15M-ME-8N	15	1/2	38.0	19.0	22.0	24.4	11.9	15/16	25	27.9	35.1
M16M-ME-6N	16	3/8	38.0	14.2	22.0	24.4	9.5	15/16	25	27.9	30.2
M16M-ME-8N	16	1/2	38.0	19.0	22.0	24.4	11.9	15/16	25	27.9	35.1
M16M-ME-12N	16	3/4	39.8	19.0	22.0	24.4	15.1	1-1/16	25	29.7	36.8
M18M-ME-8N	18	1/2	39.8	19.0	22.0	24.4	11.9	1-1/16	30	29.7	36.8
M18M-ME-12N	18	3/4	39.8	19.0	22.0	24.4	15.1	1-1/16	30	29.7	36.8
M20M-ME-8N	20	1/2	44.6	19.0	22.0	26	11.9	1-3/8	32	34.5	41.7
M20M-ME-12N	20	3/4	44.6	19.0	22.0	26	15.9	1-3/8	32	34.5	41.7
M22M-ME-12N	22	1	44.6	19.0	22.0	26	15.9	1-3/8	32	34.5	41.7
M22M-ME-16N	25	1	44.6	23.9	26.5	31.3	21.8	1-3/8	38	36.5	46.5

مت لوک (کیش)

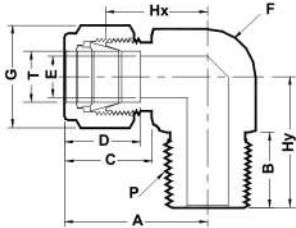
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Male Elbow BSPT(M)

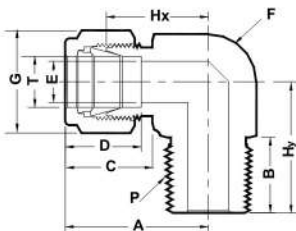
For Fractional Tube



Part No.	Tube OD (T)	BSPT Thread (P)	A	B	C	D	E	F (Hex)	G	HX	HY
M4-ME-2IT	1/4	1/8	1.06	0.38	0.70	0.60	0.19	1/2	9/16	0.77	0.74
M4-ME-4IT	1/4	1/4	1.06	0.56	0.70	0.60	0.19	1/2	9/16	0.77	0.92
M4-ME-6IT	1/4	3/8	1.17	0.56	0.70	0.60	0.19	11/16	9/16	0.88	1.03
M4-ME-8IT	1/4	1/2	1.25	0.75	0.70	0.60	0.19	13/16	9/16	0.96	1.30
M5-ME-4IT	5/16	1/4	1.13	0.56	0.73	0.64	0.25	9/16	5/8	0.84	0.96
M6-ME-4IT	3/8	1/4	1.20	0.56	0.76	0.66	0.28	5/8	11/16	0.91	1.00
M6-ME-6IT	3/8	3/8	1.23	0.56	0.76	0.66	0.28	11/16	11/16	0.94	1.03

Male Elbow BSPT(M)

For Metric Tube



Part No.	Tube OD (T)	BSPT Thread (P)	A	B	C	D	E	F (Hex)	G	HX	HY
M3M-ME-2IT	3	1/8	23.6	9.7	15.3	12.9	2.4	7/16	12	17.0	17.8
M3M-ME-4IT	3	1/4	24.6	14.2	15.3	12.9	2.4	1/2	12	18.0	23.4
M4M-ME-2IT	4	1/8	25.4	9.7	16.1	13.7	2.4	1/2	12	18.8	18.8
M4M-ME-4IT	4	1/4	25.4	14.2	16.1	13.7	2.4	1/2	12	18.8	23.4
M6ME-ME-2IT	6	1/8	27.0	9.7	17.7	15.3	4.2	1/2	14	19.6	18.8
M6M-ME-4IT	6	1/4	27.0	14.2	17.7	15.3	4.2	1/2	14	19.6	23.4
M6M-ME-6IT	6	3/8	29.8	14.2	17.7	15.3	4.2	11/16	14	22.4	26.2
M6M-ME-8IT	6	1/2	31.8	19.0	17.7	15.3	4.2	13/16	14	24.4	33.0
M8M-ME-2IT	8	1/8	28.8	9.7	18.6	16.2	4.2	9/16	16	21.3	19.8
M8M-ME-4IT	8	1/4	28.8	14.2	18.6	16.2	6.4	9/16	16	21.3	24.4
M8M-ME-6IT	8	3/8	30.6	14.2	18.6	16.2	6.4	11/16	16	23.1	26.2
M8M-ME-8IT	8	1/2	32.6	19.0	18.6	16.2	6.4	13/16	16	25.1	33.0
M10M-ME-2IT	10	1/8	31.5	14.2	19.5	17.2	7.1	11/16	19	23.9	21.6
M10M-ME-4IT	10	1/4	31.5	14.2	19.5	17.2	7.1	11/16	19	23.9	26.2
M10M-ME-6IT	10	3/8	31.5	14.2	19.5	17.2	7.9	11/16	19	23.9	26.2
M10M-ME-8IT	10	1/2	33.5	19.0	19.5	17.2	7.9	13/16	19	25.9	33.0
M12M-ME-2IT	12	3/4	36.0	9.7	22.0	22.8	4.8	13/16	22	25.9	23.6
M12M-ME-4IT	12	1/4	36.0	14.2	22.0	22.8	7.1	13/16	22	25.9	28.2
M12M-ME-6IT	12	3/8	36.0	14.2	22.0	22.8	9.5	13/16	22	25.9	28.2
M12M-ME-8IT	12	1/2	36.0	19.0	22.0	22.8	9.5	1-1/16	22	25.9	33.0
M12M-ME-12IT	12	3/4	39.8	19.0	22.0	22.8	9.5	15/16	22	29.7	36.8
M16M-ME-6IT	16	3/8	38.0	14.2	22.0	24.4	9.5	15/16	25	27.9	30.0
M16M-ME-8IT	16	1/2	38.0	19.0	22.0	24.4	11.90	1-1/16	25	29.7	36.8
M18M-ME-8IT	18	1/2	39.8	19.0	22.0	24.4	11.9	1-1/16	30	29.7	36.8
M18M-ME-12IT	18	3/4	39.8	19.0	22.0	24.4	15.1	1-3/8	30	29.7	36.8
M20M-ME-8IT	20	1/2	44.6	19.0	22.0	26.0	11.9	1-3/8	32	34.5	41.7
M20M-ME-12IT	25	3/4	44.6	19.0	22.0	26.0	15.9	1-3/8	32	34.5	41.7
M22M-ME-12IT	22	3/4	44.6	19.0	22.0	26.0	15.9	1-3/8	32	34.5	41.7
M22M-ME-16IT	22	1	44.6	23.9	22.0	26.0	18.3	1-3/8	32	34.5	46.5
M25M-ME-12IT	25	3/4	49.1	19.0	26.5	31.3	15.9	1-3/8	38	36.8	41.7
M25M-ME-16IT	25	1	49.1	23.9	26.5	31.3	21.8	1-3/8	38	36.8	46.5

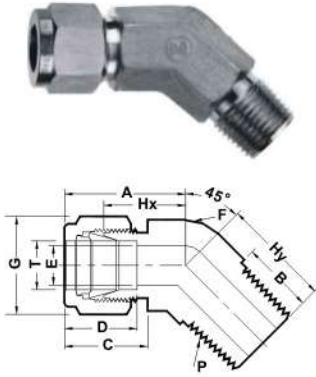
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MET-LOK (KISH)

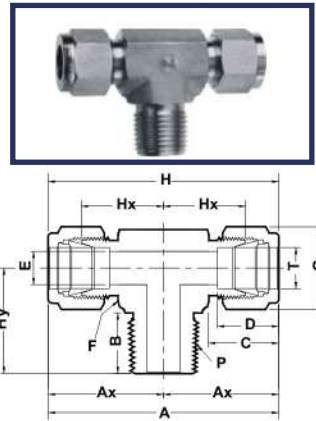
Note :All Dimension for reference only, subject to change

Male Elbow NPT(M) 45° For Fractional Tube



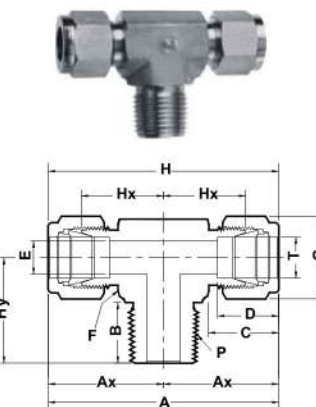
Part No.	Tube OD (T)	NPT Thread (P)	A	B	C	D	E	F (Hex)	G	HX	HY
M1-45ME-1N	1/16	1/16	0.97	0.38	0.43	0.50	0.19	3/8	5/16	0.46	0.56
M2-45ME-2N	1/8	1/8	0.97	0.38	0.60	0.60	0.19	7/16	7/16	0.59	0.66
M3-45ME-2N	3/16	1/8	0.97	0.38	0.66	0.60	0.19	7/16	1/2	0.56	0.58
M4-45ME-2N	1/4	1/8	0.97	0.38	0.70	0.60	0.19	1/2	9/16	0.68	0.65
M4-45ME-4N	1/4	1/4	0.97	0.56	0.70	0.60	0.19	1/2	9/16	0.68	0.83
M5-45ME-2N	5/16	1/8	0.97	0.38	0.70	0.66	0.19	9/16	5/8	0.66	0.66
M6-45ME-2N	3/8	1/8	1.10	0.38	0.76	0.66	0.19	5/8	11/16	0.81	0.72
M6-45ME-4N	3/8	1/4	1.10	0.56	0.76	0.66	0.28	5/8	11/16	0.81	0.90
M6-45ME-6N	3/8	3/8	1.15	0.56	0.76	0.66	0.28	13/16	11/16	0.86	0.95
M8-45ME-6N	1/2	3/8	1.26	0.56	0.86	0.90	0.38	13/16	7/8	0.86	0.95
M8-45ME-8N	1/2	1/2	1.26	0.75	0.86	0.90	0.41	13/16	7/8	0.86	1.14
M10-45ME-8N	5/8	1/2	1.34	0.75	0.80	0.90	0.41	7/8	1	0.81	1.17
M12-45ME-12N	3/4	3/4	1.34	0.75	0.86	0.96	0.62	1-1/8	1-1/8	0.94	1.22
M14-45ME-12N	7/8	3/4	1.59	0.75	0.90	0.96	0.62	1-5/16	1-1/4	1.36	1.27
M16-45ME-16N	1	1	1.59	0.94	1.04	1.23	0.88	1-3/8	1-1/2	1.11	1.49

Male Branch Tee NPT(M) For Fractional Tube



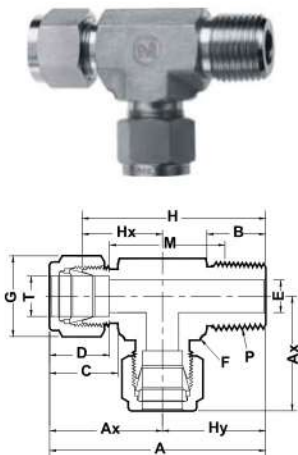
Part No.	Tube OD (T)	NPT Thread (P)	A	AX	B	C	D	E	F (Hex)	G	H	HX	HY
M2-MBT-2N	1/8	1/8	1.86	0.93	0.38	0.60	0.50	0.09	7/16	7/16	1.34	0.67	0.70
M2-MBT-4N	1/8	1/4	1.94	0.97	0.56	0.60	0.50	0.09	1/2	7/16	1.42	0.71	0.92
M3-MBT-2N	3/16	1/8	1.92	0.96	0.38	0.63	0.54	0.12	7/16	1/2	1.40	0.70	0.70
M4-MBT-2N	1/4	1/8	2.12	1.06	0.38	0.70	0.60	0.19	1/2	9/16	1.54	0.77	0.74
M4-MBT-4N	1/4	1/4	2.12	1.06	0.56	0.70	0.60	0.19	1/2	9/16	1.54	0.77	0.92
M5-MBT-2N	5/16	1/8	2.34	1.17	0.38	0.73	0.64	0.19	5/8	5/8	1.76	0.88	0.82
M5-MBT-4N	5/16	1/4	2.34	1.17	0.56	0.73	0.64	0.19	5/8	5/8	1.32	0.88	1.01
M6-MBT-4N	3/8	1/4	2.40	1.20	0.56	0.86	0.66	0.28	5/8	11/16	1.82	0.91	1.00
M6-MBT-6N	3/8	3/8	2.62	1.31	0.56	0.76	0.66	0.28	13/16	11/16	2.04	1.02	1.11
M8-MBT-6N	1/2	3/8	2.84	1.42	0.56	0.86	0.90	0.38	13/16	7/8	2.04	1.02	1.11
M8-MBT-8N	1/2	1/2	2.84	1.42	0.75	0.86	0.90	0.41	13/16	7/8	2.04	1.02	1.30
M10-MBT-8N	5/8	1/2	3.06	1.53	0.75	0.86	0.96	0.47	1	1	2.26	1.13	1.41
M12-MBT-12N	3/4	3/4	3.14	1.57	0.75	0.86	0.96	0.62	1-1/16	1-1/8	2.34	1.17	1.45
M14-MBT-12N	7/8	3/4	3.52	1.76	0.75	0.86	1.02	0.62	1-3/8	1-1/4	2.72	1.36	1.50
M16-MBT-12N	1	3/4	3.88	1.94	0.75	1.04	1.23	0.62	1-3/8	1-1/2	2.90	1.45	1.66
M16-MBT-16N	1	1	3.88	1.94	0.94	1.04	1.23	0.88	1-3/8	1-1/2	2.90	1.45	1.84

Male Branch Tee NPT(M) For Metric Tube



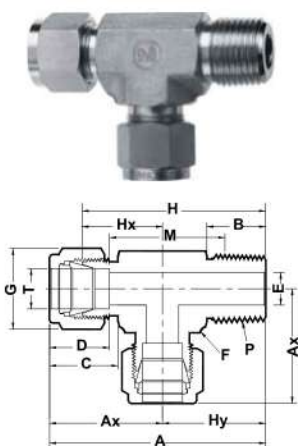
Part No.	Tube OD (T)	NPT Thread (P)	A	AX	B	C	D	E	F (Hex)	G	H	HX	HY
M6M-MBT-2N	6	1/8	53.9	27.0	9.7	17.7	15.3	4.2	1/2	14	39.10	19.6	18.8
M6M-MBT-4N	6	1/4	53.9	27.0	14.2	17.7	15.3	4.2	1/2	14	39.10	19.6	23.4
M8M-MBT-2N	8	1/8	59.7	29.9	9.7	18.6	16.2	4.2	5/8	16	44.70	22.4	20.8
M8M-MBT-4N	8	1/4	59.7	29.9	14.2	18.6	16.2	6.4	5/8	16	44.70	22.4	25.4
M10M-MBT-4N	10	1/4	67.0	33.5	14.2	19.5	17.2	7.1	13/16	19	51.80	25.9	28.2
M10M-MBT-6N	10	3/8	67.0	33.5	14.2	19.5	17.2	9.5	13/16	19	51.80	25.9	28.2
M12M-MBT-6N	12	3/8	72.0	36.0	14.2	22.0	22.8	9.5	13/16	22	51.80	25.9	28.2
M12M-MBT-4N	12	1/4	72.0	36.0	14.2	22.0	22.8	7.1	13/16	22	51.80	25.9	28.2
M12M-MBT-8N	12	1/2	72.0	36.0	19.0	22.0	22.8	9.5	13/16	22	51.80	25.9	33.0
M16M-MBT-8N	16	1/2	77.6	38.8	19.0	22.0	24.4	11.9	1	25	57.40	28.7	35.8

Male Run Tee NPT(M) For Fractional Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	AX	B	C	D	E	F (Hex)	G	H	HX	Y,HY1	M
M2-MRT-2N	1/8	1/8	1.63	0.93	0.38	0.60	0.50	0.09	7/16	7/16	1.37	0.67	0.70	0.89
M2-MRT-4N	1/8	1/4	1.89	0.97	0.56	0.60	0.50	0.09	1/2	7/16	1.63	0.71	0.92	1.05
M3-MRT-2N	3/16	1/8	1.66	0.96	0.38	0.63	0.54	0.12	7/16	1/2	1.40	0.70	0.70	0.88
M4-MRT-2N	1/4	1/8	1.80	1.06	0.38	0.70	0.60	0.19	1/2	9/16	1.51	0.77	0.74	0.96
M4-MRT-4N	1/4	1/4	1.98	1.06	0.56	0.70	0.60	0.19	1/2	9/16	1.69	0.77	0.92	1.04
M5-MRT-2N	5/16	1/8	1.99	1.17	0.38	0.73	0.64	0.19	5/8	5/8	1.70	0.88	0.82	1.11
M5-MRT-4N	5/16	1/4	2.18	1.17	0.56	0.73	0.64	0.25	5/8	5/8	1.76	0.88	1.01	1.28
M6-MRT-4N	3/8	1/4	2.20	1.20	0.56	0.76	0.66	0.28	5/8	11/8	1.91	0.91	1.00	1.20
M6-MRT-6N	3/8	3/8	2.42	1.31	0.56	0.76	0.66	0.28	13/16	11/16	2.13	1.02	1.11	1.41
M8-MRT-6N	1/2	3/8	2.53	1.42	0.56	0.86	0.90	0.38	13/16	7/8	2.13	1.02	1.11	1.28
M8-MRT-8N	1/2	1/2	2.72	1.42	0.75	0.86	0.90	0.41	13/16	7/8	2.32	1.02	1.30	1.36
M10-MRT-8N	5/8	1/2	2.88	1.5	0.75	0.86	0.96	0.47	15/16	1	2.48	1.10	1.38	1.46
M12-MRT-12N	3/4	3/4	3.02	1.57	0.75	0.86	0.96	0.62	1-1/16	1-1/8	2.62	1.17	1.45	1.46
M14-MRT-12N	7/8	3/4	3.26	1.76	0.75	0.86	1.02	0.62	1-3/8	1-1/4	2.72	1.36	1.50	1.46
M16-MRT-12N	1	3/4	3.60	1.94	0.75	1.04	1.23	0.62	1-3/8	1-1/2	2.90	1.45	1.66	1.46
M16-MRT-16N	1	1	3.78	1.94	0.94	1.04	1.23	0.88	1-3/8	1-1/2	2.90	1.45	1.84	1.46

Male Run Tee NPT (M) For Metric Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	AX	B	C	D	E	F (Hex)	G	H	HX	HY	M
M6M-MRT-2N	6	1/8	45.8	27.0	9.7	17.7	15.3	4.2	1/2	14	38.40	19.6	18.0	24.4
M6M-MRT-4N	6	1/4	50.3	27.0	14.2	17.7	15.3	4.2	1/2	14	42.90	19.6	23.4	26.4
M8M-MRT-2N	8	1/8	50.7	29.9	9.7	18.6	16.2	6.40	5/8	16	47.80	22.4	20.8	30.50
M8M-MRT-4N	8	1/4	55.3	29.9	14.2	18.6	16.2	6.4	5/8	16	47.80	22.4	25.4	30.5
M10M-MRT-4N	10	1/4	45.8	27.0	9.7	19.5	17.2	7.10	13/16	19	47.80	19.6	18.0	32.80
M10M-MRT-8N	10	1/2	66.5	33.5	19.0	19.5	17.2	7.90	13/16	19	58.90	25.9	33.0	32.80
M12M-MRT-4N	12	1/4	64.2	36.0	14.2	22.0	22.8	7.1	13/16	22	54.10	25.9	28.2	32.8
M12M-MRT-6N	12	3/8	64.2	36.0	14.2	22.0	22.8	7.10	13/16	22	54.10	25.9	28.2	34.50
M12M-MRT-8N	12	1/2	69.0	36.0	19.0	22.0	22.8	9.5	13/16	22	58.90	25.9	33.0	34.5
M16M-MRT-8N	16	1/2	73.1	38.0	19.0	22.0	24.4	11.9	15/16	25	63.0.	27.9	35.0	37.0

مت لوک (کیش)

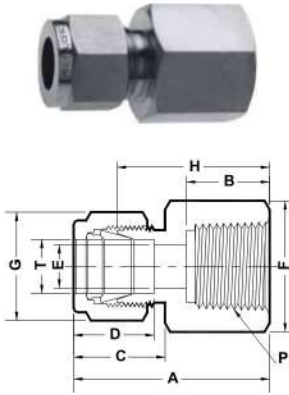
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Female Connector NPT(F)

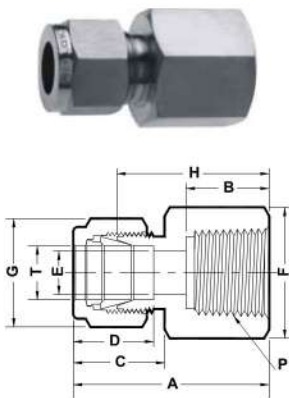
For Fractional Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	B	C	D	E	F (Hex)	G	H
M1-FC-1N	1/16	1/16	0.93	0.39	0.43	0.34	0.05	7/16	5/16	0.78
M1-FC-2N	1/16	1/8	0.96	0.41	0.43	0.34	0.05	9/16	5/16	0.81
M2-FC-2N	1/8	1/8	1.13	0.41	0.60	0.50	0.09	9/16	7/16	0.87
M2-FC-4N	1/8	1/4	1.32	0.59	0.60	0.50	0.09	3/4	7/16	1.06
M3-FC-2N	3/16	1/8	1.17	0.39	0.63	0.54	0.12	9/16	1/2	0.91
M3-FC-4N	3/16	1/4	1.35	0.59	0.64	0.54	0.12	3/4	1/2	1.09
M4-FC-2N	1/4	1/8	1.23	0.39	0.70	0.60	0.19	9/16	9/16	0.94
M4-FC-4N	1/4	1/4	1.41	0.59	0.70	0.60	0.19	3/4	9/16	1.12
M4-FC-6N	1/4	3/8	1.48	0.59	0.70	0.60	0.19	7/8	9/16	1.19
M4-FC-8N	1/4	1/2	1.67	0.78	0.70	0.60	0.19	1-1/16	9/16	1.38
M5-FC-2N	5/16	1/8	1.26	0.41	0.73	0.64	0.25	9/16	5/8	0.97
M5-FC-4N	5/16	1/4	1.45	0.59	0.73	0.64	0.25	3/4	5/8	1.16
M5-FC-6N	5/16	3/8	1.45	0.59	0.73	0.64	0.25	7/8	5/8	1.00
M6-FC-2N	3/8	1/8	1.29	0.41	0.76	0.66	0.28	5/8	11/16	1
M6-FC-4N	3/8	1/4	1.48	0.59	0.76	0.66	0.28	3/4	11/16	1.19
M6-FC-6N	3/8	3/8	1.54	0.59	0.76	0.66	0.28	7/8	11/16	1.25
M6-FC-8N	3/8	1/2	1.73	0.78	0.76	0.66	0.28	1-1/16	11/16	1.44
M6-FC-12N	3/8	3/4	1.88	0.81	0.76	0.66	0.28	1-5/16	11/16	1.59
M8-FC-4N	1/2	1/4	1.59	0.59	0.86	0.90	0.41	13/16	7/8	1.19
M8-FC-6N	1/2	3/8	1.65	0.59	0.86	0.90	0.41	7/8	7/8	1.25
M8-FC-8N	1/2	1/2	1.84	0.78	0.86	0.90	0.41	1-1/16	7/8	1.44
M8-FC-12N	1/2	3/4	1.90	0.81	0.86	0.90	0.41	1-5/16	7/8	1.5
M10-FC-6N	5/8	3/8	1.65	0.59	0.86	0.96	0.50	15/16	1	1.25
M10-FC-8N	5/8	1/2	1.84	0.78	0.86	0.96	0.50	1-1/16	1	1.44
M10-FC-12N	5/8	3/4	1.90	0.81	0.86	0.96	0.50	1-5/16	1	1.5
M12-FC-8N	3/4	1/2	1.84	0.78	0.86	0.96	0.62	1-1/16	1-1/8	1.44
M12-FC-12N	3/4	3/4	1.90	0.81	0.86	0.96	0.62	1-5/16	1-1/8	1.5
M14-FC-12N	7/8	3/4	1.96	0.81	0.86	1.02	0.72	1-5/16	1-1/4	1.56
M16-FC-12N	1	3/4	2.10	0.81	1.04	1.23	0.88	1-3/8	1-1/2	1.62
M16-FC-16N	1	1	2.45	1.00	1.04	1.23	0.88	1-5/8	1-1/2	1.97

Female Connector NPT(F)

For Metric Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	B	C	D	E	F (Hex)	G	H
M3M-FC-2N	3	1/8	28.7	10.4	15.3	12.9	2.4	14	12	22.2
M3M-FC-4N	3	1/4	33.5	15	15.3	12.9	2.4	19	12	27
M4M-FC-2N	4	1/8	29.7	10.4	16.1	13.7	2.4	14	12	23.1
M6M-FC-2N	6	1/8	31.3	10.4	17.7	15.3	4.2	14	14	23.9
M6M-FC-4N	6	1/4	35.8	15.0	17.7	15.3	4.2	19	14	28.4
M6M-FC-6N	6	3/8	37.6	15.0	17.7	15.3	4.2	22	14	30.2
M6M-FC-8N	6	1/2	42.5	19.8	17.7	15.3	4.2	27	14	35.1
M8M-FC-2N	8	1/8	32.1	10.4	18.6	16.2	6.4	15	16	24.6
M8M-FC-4N	8	1/4	37.0	15.0	18.6	16.2	6.4	19	16	29.5
M8M-FC-6N	8	3/8	38.5	15.0	18.6	16.2	6.4	22	16	31
M8M-FC-8N	8	1/2	43.3	19.8	18.6	16.2	6.4	27	16	35.8
M10M-FC-4N	10	1/4	37.8	15.0	19.5	17.2	7.9	22	19	30.2
M10M-FC-6N	10	3/8	39.4	15.0	19.5	17.2	7.9	22	19	31.8
M10M-FC-8N	10	1/2	44.2	19.8	19.5	17.2	7.9	27	19	36.6
M12M-FC-4N	12	1/4	40.3	15.0	22.0	22.8	9.5	22	22	30.2
M12M-FC-6N	12	3/8	41.9	15.0	22.0	22.8	9.5	22	22	31.8
M12M-FC-8N	12	1/2	46.7	19.8	22.0	22.8	9.5	27	22	36.6
M15M-FC-8N	15	1/2	46.7	19.8	22.0	24.4	11.9	27	25	36.6
M16M-FC-6N	16	3/8	41.9	15.0	22.0	24.40	9.50	16	25	31.8
M16M-FC-8N	16	1/2	46.9	19.8	22.0	24.4	12.7	27	25	36.8
M20M-FC-8N	20	1/2	47.9	19.8	22.0	26.0	15.9	30	32	37.8
M20M-FC-12N	20	3/4	49.7	20.6	22.0	26.0	15.9	35	32	39.6
M22M-FC-12N	22	3/4	49.7	20.6	22.0	26.0	18.3	35	32	39.6
M22M-FC-16N	22	1	57.9	25.4	22.0	26.0	18.3	41	32	47.8
M25M-FC-12N	25	3/4	53.4	20.6	26.5	31.3	21.8	35	38	41.1
M25M-FC-16N	25	1	62.3	25.4	26.5	31.3	21.8	41	38	50

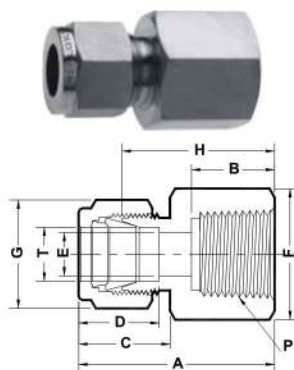
مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

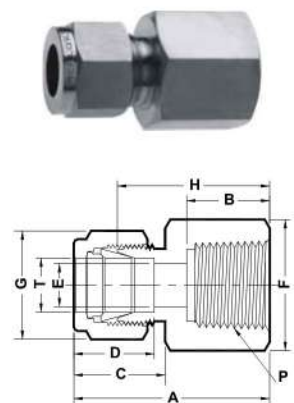
Note :All Dimension for reference only, subject to change

Female Connector BSPT (F) For Fractional Tube



Part No.	Tube OD (T)	BSPT Thread (P)	A	B	C	D	E	F (Hex)	G	H
M4-FC-2IT	1/4	1/8	1.23	0.41	0.70	0.60	0.19	9/16	9/16	0.94
M4-FC-4IT	1/4	1/4	1.41	0.59	0.70	0.60	0.19	3/4	9/16	1.13
M4-FC-6IT	1/4	3/8	1.48	0.59	0.70	0.60	0.19	7/8	9/16	1.19
M4-FC-8IT	1/4	1/2	1.67	0.78	0.70	0.60	0.19	1-1/16	9/16	1.38
M6-FC-4IT	3/8	1/4	1.48	0.59	0.76	0.66	0.28	3/4	11/16	1.19
M6-FC-6IT	3/8	3/8	1.54	0.59	0.76	0.66	0.28	7/8	11/16	1.25
M6-FC-8IT	3/8	1/2	1.73	0.78	0.76	0.66	0.28	1-1/16	11/16	1.44
M8-FC-4IT	1/2	1/4	1.59	0.59	0.86	0.90	0.41	13/16	7/8	1.19
M8-FC-6IT	1/2	3/8	1.65	0.59	0.86	0.90	0.41	7/8	7/8	1.25
M8-FC-8IT	1/2	1/2	1.84	0.78	0.86	0.90	0.41	1-1/16	7/8	1.44

Female Connector BSPT (F) For Metric Tube



Part No.	Tube OD (T)	BSPT Thread (P)	A	B	C	D	E	F (Hex)	G	H
M3M-FC-2IT	3	1/8	28.7	10.4	15.3	12.9	2.4	14	12	22.1
M6M-FC-2IT	6	1/8	31.3	10.4	17.7	15.3	4.2	14	14	23.9
M6M-FC-4IT	6	1/4	35.8	15.0	17.7	15.3	4.2	19	14	28.4
M6M-FC-6IT	6	3/8	37.6	15.0	17.7	15.3	4.2	22	14	30.2
M6M-FC-8IT	6	1/2	42.5	19.8	17.7	15.3	4.2	27	14	35.1
M8M-FC-2IT	8	1/8	32.1	10.4	18.6	16.2	6.4	15	16	24.6
M8M-FC-4IT	8	1/4	37.0	15.0	18.6	16.2	6.4	19	16	29.5
M8M-FC-6IT	8	3/8	38.5	15.0	18.6	16.2	6.4	22	16	31
M8M-FC-8IT	8	1/2	43.3	19.8	18.6	16.2	6.4	27	16	31.0
M10M-FC-2IT	10	1/8	33.0	10.4	19.5	17.2	7.9	18	19	25.4
M10M-FC-4IT	10	1/4	37.8	15.0	19.5	17.2	7.9	19	19	30.2
M10M-FC-6IT	10	3/8	39.4	19.5	19.5	17.2	7.9	22	19	31.8
M10M-FC-8IT	10	1/2	44.2	19.8	19.5	17.2	7.9	27	19	36.6
M12M-FC-2IT	12	1/8	35.5	10.4	22.0	22.8	8.3	22	22	25.4
M12M-FC-4IT	12	1/4	40.3	15.0	22.0	22.8	9.5	22	22	30.2
M12M-FC-6IT	12	3/8	41.9	15.0	22.0	22.8	9.5	22	22	31.8
M12M-FC-8IT	12	1/2	46.7	19.8	22.0	22.8	9.5	27	22	36.6
M12M-FC-12IT	12	3/4	49.0	20.6	22.0	22.8	9.5	35	22	38.9
M15M-FC-6IT	15	3/8	41.9	15.0	22.0	24.4	11.9	24	25	31.8
M15M-FC-8IT	15	1/2	46.7	19.8	22.0	24.4	11.9	27	25	31.8
M16M-FC-8IT	16	1/2	48.4	19.8	22.0	24.4	11.90	27	25	38.3
M20M-FC-8IT	20	1/2	47.9	19.8	22.0	26.0	15.9	30	32	37.8
M20M-FC-12IT	20	3/4	49.7	20.6	22.0	26.0	15.9	35	32	39.6
M22M-FC-12IT	22	3/4	49.7	20.6	22.0	26.0	18.3	35	32	39.6
M22M-FC-16IT	22	1	57.9	25.4	22.0	26.0	18.3	41	32	47.8
M25M-FC-12IT	25	3/4	53.4	20.6	26.5	31.3	21.8	35	38	41.1
M25M-FC-16IT	25	1	62.3	25.4	26.5	31.3	21.8	41	38	50

مت لوک (کیش)

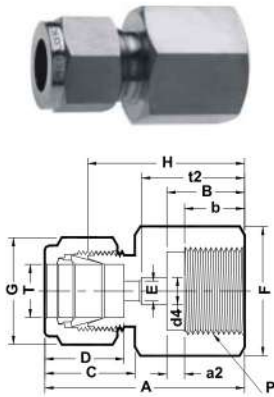
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

(Gauge) Female Connector BSP(F)

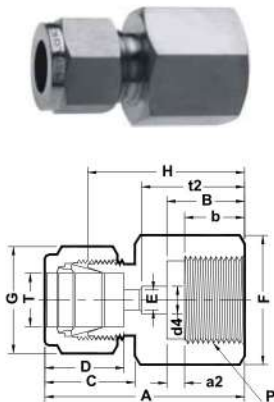
For Fractional Tube



Part No.	Tube OD (T)	BSP(M) Thread (P)	A	B	C	D	E	F (Hex)	G	H	a2Min	bMin	d4	t2
M4-FC-4IPG	1/4	1/4	1.48	0.51	0.70	0.60	0.19	3/4	9/16	1.19	0.06	0.37	0.22	0.67
M4-FC-6IPG	1/4	3/8	1.48	0.56	0.70	0.60	0.19	15/16	9/16	1.19	0.06	0.39	0.26	0.80
M4-FC-8IPG	1/4	1/2	1.71	0.74	0.70	0.60	0.19	1-1/16	9/16	1.42	0.06	0.57	0.26	0.98
M5-FC-4IPG	5/16	1/4	1.51	0.51	0.73	0.64	0.22	3/4	5/8	1.22	0.06	0.37	-	-
M5-FC-8IPG	5/16	1/2	1.61	0.74	0.73	0.64	0.28	1-1/16	5/8	1.32	0.06	0.57	-	-
M6-FC-4IPG	3/8	1/4	1.54	0.51	0.76	0.66	0.22	3/4	11/16	1.25	0.06	0.37	-	-
M6-FC-6IPG	3/8	3/8	1.52	0.56	0.76	0.66	0.26	15/16	11/16	1.23	0.06	0.39	-	-
M6-FC-8IPG	3/8	1/2	1.65	0.74	0.76	0.66	0.28	1-1/16	11/16	1.36	0.06	0.57	-	-
M8-FC-6IPG	1/2	3/8	1.75	0.56	0.86	0.90	0.26	15/16	7/8	1.35	0.06	0.39	-	-
M8-FC-8IPG	1/2	1/2	1.90	0.74	0.86	0.90	0.28	1-1/16	7/8	1.5	0.06	0.57	-	-

(Gauge) Female Connector BSP(F)

For Metric Tube



Part No.	Tube OD (T)	BSP(M) Thread (P)	A	B	C	D	E	F (Hex)	G	H	a2Min	bMin	d4	t2
M3M-FC-4IPG	3	1/4	35.3	12.9	15.3	12.9	2.4	19	12	28.7	1.6	9.5	5.5	17.0
M6M-FC-4IPG	6	1/4	37.6	12.9	17.7	15.3	4.2	19	14	30.2	1.6	9.5	5.5	17.0
M6M-FC-6IPG	6	3/8	37.6	14.1	17.7	15.3	4.2	24	14	30.2	1.6	10.0	6.5	20.3
M6M-FC-8IPG	6	1/2	43.5	18.9	17.7	15.3	4.2	27	14	36.1	1.6	14.5	7.0	24.9
M8M-FC-4IPG	8	1/4	38.5	12.9	18.6	16.2	5.5	19	16	31	1.6	9.5	5.5	-
M8M-FC-6IPG	8	3/8	36.2	14.1	18.6	16.2	6.5	24	16	28.7	1.6	10.0	6.5	-
M8M-FC-8IPG	8	1/2	41.0	18.9	18.6	16.2	7.0	27	16	33.5	1.6	14.5	7.0	-
M10M-FC-4IPG	10	1/4	39.4	12.9	19.5	17.2	5.5	19	19	31.8	1.6	9.5	5.5	-
M10M-FC-6IPG	10	3/8	38.8	14.1	19.5	17.2	6.5	24	19	31.2	1.6	10.0	6.5	-
M10M-FC-8IPG	10	1/2	42.1	18.9	19.5	17.2	7.0	27	19	34.5	1.6	14.5	7.0	-
M12M-FC-4IPG	12	1/4	41.9	12.9	22.0	22.8	5.5	22	22	31.8	1.6	9.5	5.5	-
M12M-FC-6IPG	12	3/8	44.4	14.1	22.0	22.8	6.5	24	22	34.3	1.6	10.0	6.5	-
M12M-FC-8IPG	12	1/2	48.2	18.9	22.0	22.8	7.0	27	22	38.1	1.6	14.5	7.0	-
M20M-FC-8IPG	20	1/2	54.3	18.9	22.0	26.0	7.0	30	32	44.2	1.6	14.5	7.0	-
M22M-FC-8IPG	22	1/2	54.3	18.9	22.0	26.0	7.0	30	32	44.2	1.6	14.5	7.0	-

مت لوک (کیش)

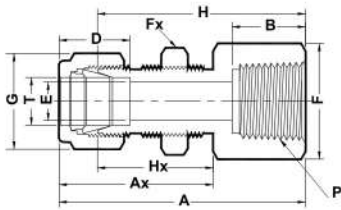
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Bulk Head Female Connector NPT(F)

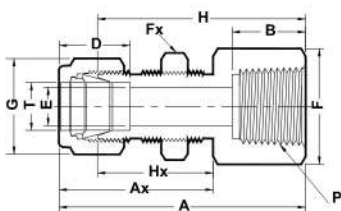
For Fractional Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	AX	B	D	E	F (Hex)	FX	G	H	HX
M2-BFC-2N	1/8	1/8	1.76	1.23	0.41	0.50	0.09	9/16	1/2	7/16	1.5	0.97
M3-BFC-2N	3/16	1/8	1.79	1.26	0.41	0.54	0.09	9/16	1/2	1/2	1.53	1.00
M4-BFC-2N	1/4	1/8	1.85	1.32	0.41	0.60	0.19	5/8	5/8	9/16	1.56	1.03
M4-BFC-4N	1/4	1/4	2.04	1.32	0.59	0.60	0.19	3/4	5/8	9/16	1.75	1.03
M5-BFC-2N	5/16	1/8	1.96	1.42	0.41	0.64	0.25	1-1/16	5/8	5/8	1.66	1.12
M5-BFC-8N	5/16	1/2	2.38	1.42	0.78	0.64	0.25	1-1/16	5/8	5/8	2.08	1.12
M6-BFC-4N	3/8	1/4	2.17	1.45	0.59	0.66	0.28	3/4	3/4	11/16	1.88	1.16
M8-BFC-6N	1/2	3/8	2.43	1.65	0.59	0.90	0.41	15/16	15/16	7/8	2.03	1.25
M8-BFC-8N	1/2	1/2	2.62	1.65	0.78	0.90	0.41	1-1/16	15/16	7/8	2.22	1.25
M10-BFC-8N	5/8	1/2	2.65	1.68	0.78	0.96	0.50	1-1/16	1.00	1.00	2.25	1.28
M12-BFC-12N	3/4	3/4	2.9	1.87	0.81	0.96	0.62	1-3/8	1-1/8	1-1/8	2.5	1.47
M14-BFC-12N	7/8	3/4	3.18	2.09	0.81	1.02	0.72	1-3/8	1-1/8	1-1/8	2.78	1.69
M16-BFC-16N	1	1	3.68	2.27	1.00	1.23	0.88	1-5/8	1-1/2	1-1/2	3.19	1.78

Bulk Head Female Connector NPT(F)

For Metric Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	AX	B	D	E	F (Hex)	FX	G	H	HX	BHEAD HOLE DRILL	MAXB HEAD THICK
M6M-BFC-2N	6	1/8	47.2	33.7	10.40	15.30	4.2	16	16	14	47.20	26.2	11.5	10.2
M6M-BFC-4N	6	1/4	51.8	33.6	15.0	15.3	4.2	19	16	14	44.5	26.2	11.5	10.2
M8M-BFC-2N	8	1/8	49.60	36.1	10.40	16.20	6.40	18	18	16	42.1	28.5	13.1	11.2
M10M-BFC-4N	10	1/4	55.2	37.0	15.00	17.20	7.90	19	19	19	47.6	29.4	19.5	11.2
M10M-BFC-6N	12	3/8	60.9	41.9	15.00	22.80	9.50	24	24	22	50.8	31.8	19.5	12.7
M12M-BFC-8N	12	1/2	66.5	41.9	19.8	22.8	9.5	27	24	22	56.3	31.8	19.5	12.7

مت لوک (کیش)

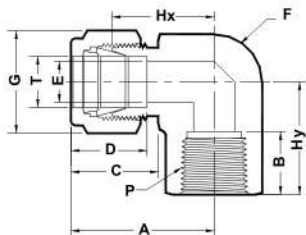
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Female Elbow NPT(F)

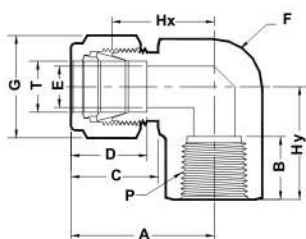
For Fractional Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	B	C	D	E	F (Hex)	G	HX	HY
M1-FE-1N	1/16	1/16	0.71	0.41	0.60	0.50	0.05	1/2	5/16	0.56	0.56
M1-FE-2N	1/16	1/8	0.81	0.41	0.60	0.50	0.05	1/2	5/16	0.75	0.66
M2-FE-2N	1/8	1/8	0.97	0.41	0.60	0.50	0.09	1/2	7/16	0.71	0.75
M2-FE-4N	1/8	1/4	1.08	0.59	0.60	0.50	0.09	11/16	7/16	0.82	0.88
M3-FE-2N	3/16	1/8	1.00	0.41	0.63	0.54	0.12	1/2	1/2	0.74	0.75
M4-FE-2N	1/4	1/8	1.06	0.41	0.70	0.60	0.19	1/2	9/16	0.77	0.75
M4-FE-4N	1/4	1/4	1.17	0.59	0.70	0.60	0.19	11/16	9/16	0.88	0.88
M4-FE-6N	1/4	3/8	1.25	0.59	0.70	0.60	0.19	13/16	9/16	0.96	0.88
M4-FE-8N	1/4	1/2	1.36	0.78	0.70	0.60	0.19	1	9/16	1.07	1.12
M5-FE-2N	5/16	1/8	1.13	0.41	0.73	0.64	0.25	9/16	5/8	0.84	0.75
M5-FE-4N	5/16	1/4	1.20	0.59	0.73	0.64	0.25	11/16	5/8	0.91	0.88
M6-FE-2N	3/8	1/8	1.20	0.41	0.76	0.66	0.28	5/8	11/16	0.91	0.75
M6-FE-4N	3/8	1/4	1.23	0.59	0.76	0.66	0.28	11/16	11/16	0.94	0.88
M6-FE-6N	3/8	3/8	1.31	0.59	0.76	0.66	0.28	13/16	11/16	1.02	0.88
M6-FE-8N	3/8	1/2	1.42	0.78	0.76	0.66	0.28	1	11/16	1.13	1.12
M8-FE-4N	1/2	1/4	1.42	0.59	0.86	0.90	0.41	13/16	7/8	1.02	0.88
M8-FE-6N	1/2	3/8	1.42	0.59	0.86	0.90	0.41	13/16	7/8	1.02	0.88
M8-FE-8N	1/2	1/2	1.53	0.78	0.86	0.90	0.41	1	7/8	1.13	1.12
M10-FE-6N	5/8	3/8	1.50	0.59	0.86	0.96	0.50	15/16	1	1.10	0.88
M10-FE-8N	5/8	1/2	1.57	0.78	0.86	0.96	0.50	1-1/16	1	1.17	1.12
M12-FE-8N	3/4	1/2	1.57	0.78	0.86	0.96	0.62	1-1/16	1-1/8	1.17	1.12
M12-FE-12N	3/4	3/4	1.76	0.81	0.86	0.96	0.62	1-3/8	1-1/8	1.36	1.25
M14-FE-16N	7/8	3/4	1.76	0.81	0	1.02	0.72	1-3/8	1-1/4	1.36	1.25
M16-FE-12N	1	3/4	1.93	0.81	1.04	1.23	0.88	1-3/8	1-1/2	1.45	1.25
M16-FE-16N	1	1	2.11	1.00	1.04	1.23	0.88	1-11/16	1-1/2	1.63	1.50

Female Elbow NPT(F)

For Metric Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	B	C	D	E	F (Hex)	G	HX	HY
M6M-FE-2N	6	1/8	27.0	10.4	17.7	15.3	4.2	1/2	14	19.6	19.0
M6M-FE-4N	6	1/4	29.8	15.0	17.7	15.3	4.2	11/16	14	22.4	22.4
M6M-FE-8N	6	1/2	34.6	19.8	17.7	15.3	4.2	1	14	27.2	28.4
M8M-FE-2N	8	1/8	28.8	10.40	18.60	16.20	4.2	11/16	16.00	19.6	19.0
M8M-FE-4N	8	1/4	30.6	15.0	18.6	16.2	6.4	11/16	16	23.1	22.4
M10M-FE-2N	10	1/8	31.5	10.4	19.5	17.2	7.9	11/16	19	23.9	19.0
M10M-FE-4N	10	1/4	33.5	15.0	19.5	17.2	7.9	13/16	19	25.9	22.4
M10M-FE-6N	10	3/8	33.5	15.00	22.00	17.20	7.90	13/16	19.00	25.9	22.4
M10M-FE-8N	10	1/2	36.3	19.80	22.00	22.80	7.90	1.00	19.00	28.7	28.5
M12M-FE-4N	12	1/4	36.0	15.0	22.0	22.8	9.5	13/16	22	25.9	22.4
M12M-FE-6N	12	3/8	33.5	15.00	22.00	22.80	7.90	13/16	22.00	25.9	22.4
M12M-FE-8N	12	1/2	38.8	19.8	22.0	22.8	9.5	1	22	28.7	28.4
M16M-FE-6N	16	3/8	39.5	15.00	22.00	24.40	7.90	1-1/16	25.00	29.7	23.6
M16M-FE-8N	16	1/2	39.5	19.8	22.0	24.4	12.7	1-1/16	25	29.7	28.4

مت لوک (کیش)

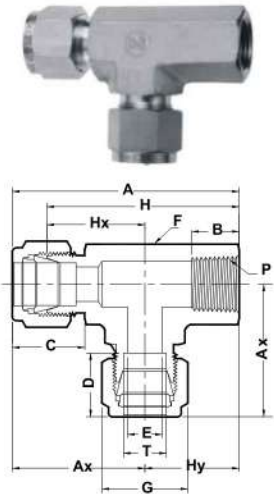
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Female Run Tee NPT(F)

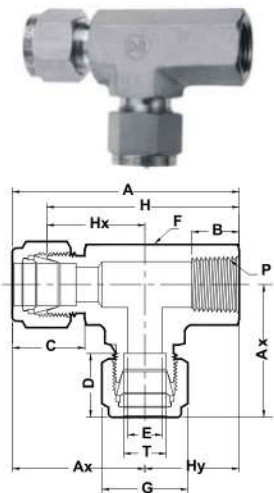
For Fractional Tube



Part No.	Tube OD (T)	NPT Thread	A	AX	B	C	D	E	F (Hex)	G	H	HX	HY
M2-FRT-2N	1/8	1/8	1.72	0.97	0.41	0.60	0.50	0.09	1/2	7/16	1.46	0.71	0.75
M3-FRT-2N	3/16	1/8	1.76	1.01	0.41	0.60	0.50	0.09	9/16	1/2	1.50	0.75	0.75
M4-FRT-2N	1/4	1/8	1.81	1.06	0.41	0.70	0.60	0.19	1/2	9/16	1.52	0.77	0.75
M4-FRT-4N	1/4	1/4	2.05	1.17	0.59	0.70	0.60	0.19	11/16	9/16	1.76	0.88	0.88
M5-FRT-2N	5/16	1/8	1.92	1.17	0.41	0.60	0.60	0.19	5/8	5/8	1.63	0.88	0.75
M6-FRT-4N	3/8	1/4	2.11	1.23	0.59	0.76	0.66	0.28	11/16	11/16	1.82	0.94	0.88
M8-FRT-4N	1/2	1/4	2.56	1.43	0.59	0.70	0.60	0.19	13/16	7/8	2.26	1.13	1.13
M8-FRT-6N	1/2	3/8	2.30	1.42	0.59	0.86	0.90	0.41	13/16	7/8	1.90	1.02	0.88
M8-FRT-8N	1/2	1/2	2.69	1.57	0.78	0.86	0.90	0.41	1-1/16	7/8	2.29	1.17	1.12
M10-FRT-8N	5/8	1/2	2.66	1.53	0.78	0.86	0.90	0.41	1-1/16	1.00	2.26	1.13	1.13
M12-FRT-12N	3/4	3/4	3.01	1.76	0.81	0.86	0.96	0.62	1-3/8	1-1/8	2.61	1.36	1.25
M14-FRT-8N	7/8	1/2	3.01	1.76	0.78	0.86	0.90	0.41	1-3/8	1-1/4	2.61	1.36	1.25
M14-FRT-12N	7/8	3/4	3.01	1.76	0.81	0.86	0.96	0.62	1-3/8	1-1/4	2.61	1.36	1.25
M16-FRT-12N	1	3/4	3.18	1.93	0.81	1.04	1.23	0.88	1-3/8	1-1/2	2.70	1.45	1.25
M16-FRT-16N	1	1	3.61	2.11	1.00	1.04	1.23	0.88	1-11/16	1-1/2	3.13	1.63	1.5

Female Run Tee NPT(F)

For Metric Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	AX	B	C	D	E	F (Hex)	G	H	HX	HY
M6M-FRT-2N	6	1/8	46.0	27.0	10.4	17.7	15.3	4.2	1/2	14	38.60	19.6	19.0
M6M-FRT-4N	6	1/4	52.1	29.8	15.0	17.7	15.3	4.2	11/16	14	44.70	22.4	22.4
M8M-FRT-2N	8	1/8	48.9	29.9	10.4	18.6	16.2	6.4	5/8	16	41.40	22.4	19.0
M8M-FRT-4N	8	1/4	53.0	30.6	15	18.6	16.20	6.4	11/16	16	45.50	25.9	22.4
M10M-FRT-4N	10	1/4	55.9	33.5	15.0	19.5	17.2	7.9	13/16	19	48.30	25.9	22.4
M12M-FRT-4N	12	1/4	58.4	36.0	15.0	22.0	22.8	9.5	13/16	22	48.30	25.9	22.4
M12M-FRT-6N	12	3/8	58.4	36.0	15.0	22.0	22.8	10.3	13/16	22	48.30	25.9	22.4
M12M-FRT-4N	12	1/2	67.3	38.8	19.80	22.00	22.80	10.30	1.00	22	57.20	28.7	28.5
M16M-FRT-8N	16	1/2	68.2	39.8	19.8	22.0	24.4	12.7	1-1/16	25	58.10	29.7	28.4

مت لوک (کیش)

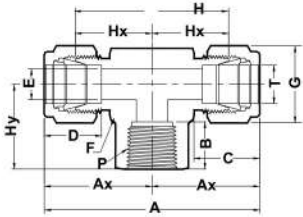
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Female Branch Tee NPT(F)

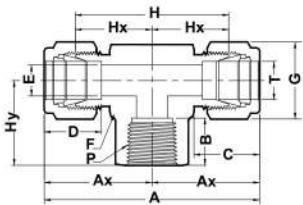
For Fractional Tube



Part No.	Tube OD (T)	NPT Thread (P)	A	AX	B	C	D	E	F (Hex)	G	H	HX	HY
M2-FBT-2N	1/8	1/8	1.94	0.97	0.41	0.60	0.50	0.09	1/2	7/16	1.42	0.71	0.75
M3-FBT-2N	3/16	1/8	2.02	1.01	0.41	0.60	0.50	0.09	9/16	1/2	1.50	0.75	0.75
M4-FBT-2N	1/4	1/8	2.12	1.06	0.41	0.70	0.60	0.19	1/2	9/16	1.54	0.77	0.75
M4-FBT-4N	1/4	1/4	2.34	1.17	0.59	0.70	0.60	0.19	11/16	9/16	1.76	0.88	0.88
M5-FBT-2N	5/16	1/8	2.34	1.17	0.41	0.76	0.64	0.25	5/8	5/8	1.76	0.88	0.75
M6-FBT-2N	3/8	1/4	2.46	1.23	0.59	0.76	0.66	0.28	11/16	11/16	1.88	0.94	0.88
M6-FBT-6N	3/8	3/8	2.62	1.31	0.59	0.76	0.66	0.28	13/16	11/16	2.04	1.02	0.88
M6-FBT-8N	3/8	1/2	2.84	1.42	0.78	0.76	0.66	0.28	1	11/16	2.26	1.13	1.12
M8-FBT-4N	1/2	1/4	2.84	1.42	0.59	0.86	0.90	0.41	13/16	7/8	2.04	1.02	0.88
M8-FBT-6N	1/2	3/8	2.84	1.42	0.59	0.86	0.90	0.41	13/16	7/8	2.04	1.02	0.88
M8-FBT-8N	1/2	1/2	3.06	1.53	0.78	0.86	0.90	0.41	1	7/8	2.26	1.13	1.12
M10-FBT-8N	5/8	1/2	3.06	1.53	0.78	0.86	0.96	0.50	1	1	2.26	1.13	1.12
M12-FBT-12N	3/4	3/4	3.52	1.76	0.81	0.86	0.96	0.62	1-3/8	1-1/8	2.72	1.36	1.25
M14-FBT-12N	7/8	3/4	3.52	1.76	0.81	0.86	1.02	0.72	1-3/8	1-1/4	2.72	1.36	1.25
M16-FBT-12N	1	3/4	3.86	1.93	0.81	1.04	1.23	0.88	1-3/8	1-1/2	2.90	1.45	1.25
M16-FBT-16N	1	1	4.22	2.11	1.00	1.04	1.23	0.88	1-11/16	1-1/2	3.26	1.63	1.50

Female Branch Tee NPT(F)

For Metric Tube



Part No.	Tube OD (T)	NPT Thread	A	AX	B	C	D	E	F (Hex)	G	H	HX	HY
M6M-FBT-2N	6	1/8	53.9	27.0	10.4	17.7	15.3	4.2	1/2	14	39.10	19.6	19.0
M6M-FBT-4N	6	1/4	59.5	29.8	15.0	17.7	15.3	4.2	11/16	14	47.70	22.4	22.4
M8M-FBT-2N	8	1/8	59.7	29.9	10.4	18.6	16.2	6.4	5/8	16	47.70	22.40	19.0
M8M-FBT-4N	8	1/4	61.2	30.6	15.0	18.6	16.2	6.4	11/16	16	46.20	23.1	22.4
M10M-FBT-4N	10	1/4	67.0	33.5	15.0	19.5	17.2	7.9	13/16	19	51.80	25.9	22.4
M12M-FBT-2N	12	1/8	72.0	36.0	15.0	22.0	22.8	9.5	13/16	22	51.80	25.9	22.7
M12M-FBT-4N	12	1/4	72.0	36.0	15.0	22.0	22.8	9.5	13/16	22	51.80	25.9	22.4
M12M-FBT-6N	12	3/8	72.0	36.0	15.00	22.00	22.8	9.50	13/16	22	51.80	25.9	22.4
M12M-FBT-8N	12	1/2	77.6	38.8	19.80	22.00	22.8	9.50	1	22	57.40	28.7	28.5
M16M-FBT-8N	16	1/2	77.6	38.8	19.8	22	24.4	12.7	1	25	57.40	28.7	28.4

مت لوک (کیش)

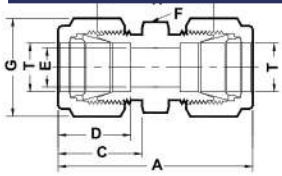
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Union

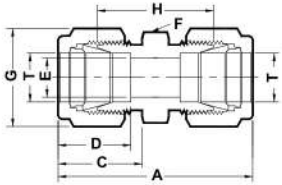
Fractional Tube X Fractional Tube



Part No.	Tube OD (T)	A	C	D	E	F (Hex)	G	H
M1-U	1/16	0.99	0.43	0.34	0.05	5/16	5/16	0.69
M2-U	1/8	1.40	0.60	0.50	0.09	7/16	7/16	0.88
M3-U	3/16	1.47	0.63	0.54	0.12	7/16	1/2	0.95
M4-U	1/4	1.61	0.70	0.60	0.19	1/2	9/16	1.03
M5-U	5/16	1.69	0.73	0.64	0.25	9/16	5/8	1.11
M6-U	3/8	1.77	0.76	0.66	0.28	5/8	11/16	1.19
M8-U	1/2	2.02	0.86	0.90	0.41	13/16	7/8	1.22
M10-U	5/8	2.05	0.86	0.96	0.50	15/16	1	1.25
M12-U	3/4	2.11	0.86	0.96	0.62	1-1/16	1-1/8	1.31
M14-U	7/8	2.17	0.86	1.02	0.72	1-3/16	1-1/4	1.37
M16-U	1	2.55	1.04	1.23	0.88	1-3/8	1-1/2	1.59

Union

Metric Tube X Metric Tube



Part No.	Tube OD (T)	A	C	D	E	F (Hex)	G	H
M2M-U	2	35.6	15.3	12.9	1.7	12	12	22.4
M3M-U	3	35.3	15.3	12.9	2.4	12	12	22.1
M4M-U	4	37.3	16.1	13.7	2.4	12	12	24.1
M6M-U	6	41.0	17.7	15.3	4.2	14	14	26.2
M8M-U	8	43.2	18.6	16.2	6.4	15	16	28.2
M10M-U	10	46.2	19.5	17.2	7.9	18	19	31
M12M-U	12	51.2	22.0	22.8	9.5	22	22	31
M14M-U	14	52.0	22.0	24.4	11.1	24	25	31.8
M15M-U	15	52.0	22.0	24.4	11.9	24	25	31.8
M16M-U	16	52.0	22.0	24.4	12.7	24	25	31.8
M18M-U	18	53.5	22.0	24.4	15.1	27	30	33.3
M20M-U	20	55.0	22.0	26.0	15.9	30	32	34.8
M22M-U	22	55.0	22.0	26.0	18.3	30	32	34.8
M25M-U	25	65.0	26.5	31.3	21.8	35	38	40.5

مت لوک (کیش)

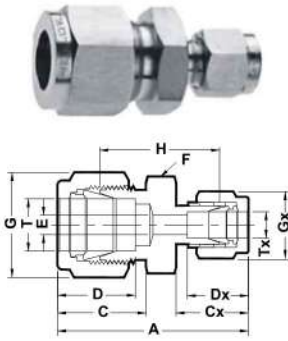
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Reducer Union

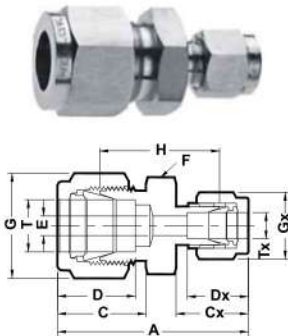
Fractional Tube X
Fractional Tube



Part No.	Tube OD (T)	Tube OD (Tx)	A	C	CX	D	DX	E	F (Hex)	G	GX	H
M2-RU-1	1/8	1/16	1.22	0.60	0.43	0.50	0.34	0.05	7/16	7/16	5/16	0.81
M3-RU-1	3/16	1/16	1.27	0.63	0.43	0.54	0.34	0.05	7/16	1/2	5/16	0.86
M3-RU-2	3/16	1/8	1.44	0.63	0.60	0.54	0.50	0.09	7/16	1/2	7/16	0.92
M4-RU-1	1/4	1/16	1.35	0.70	0.43	0.60	0.34	0.05	9/16	9/16	5/16	0.91
M4-RU-2	1/4	1/8	1.52	0.70	0.60	0.60	0.50	0.09	9/16	9/16	7/16	0.97
M4-RU-3	1/4	3/16	1.55	0.70	0.63	0.60	0.54	0.12	9/16	9/16	1/2	1
M5-RU-2	5/16	1/8	1.56	0.73	0.60	0.64	0.50	0.09	9/16	5/8	7/16	1.01
M5-RU-4	5/16	1/4	1.66	0.73	0.70	0.64	0.60	0.19	9/16	5/8	9/16	1.08
M6-RU-1	3/8	1/16	1.44	0.76	0.43	0.66	0.34	0.05	5/8	11/16	5/16	1
M6-RU-2	3/8	1/8	1.61	0.76	0.60	0.66	0.50	0.09	5/8	11/16	7/16	1.06
M6-RU-4	3/8	1/4	1.70	0.76	0.70	0.66	0.60	0.19	5/8	11/16	9/16	1.12
M6-RU-5	3/8	5/16	1.74	0.76	0.73	0.66	0.64	0.25	5/8	11/16	5/8	1.16
M8-RU-2	1/2	1/8	1.78	0.86	0.60	0.90	0.50	0.09	13/16	7/8	7/16	1.12
M8-RU-4	1/2	1/4	1.85	0.86	0.70	0.90	0.60	0.19	13/16	7/8	9/16	1.16
M8-RU-6	1/2	3/8	1.91	0.86	0.76	0.90	0.66	0.28	13/16	7/8	11/16	1.22
M10-RU-6	5/8	3/8	1.94	0.86	0.76	0.96	0.66	0.28	15/16	1	11/16	1.25
M10-RU-8	5/8	1/2	2.05	0.86	0.86	0.96	0.90	0.41	15/16	1	7/8	1.25
M12-RU-4	3/4	1/4	1.94	0.86	0.70	0.96	0.60	0.19	1-1/16	1-1/8	9/16	1.25
M12-RU-6	3/4	3/8	2.00	0.86	0.76	0.96	0.66	0.28	1-1/16	1-1/8	11/16	1.31
M12-RU-8	3/4	1/2	2.11	0.86	0.86	0.96	0.90	0.41	1-1/16	1-1/8	7/8	1.31
M12-RU-10	3/4	5/8	2.11	0.86	0.86	0.96	0.96	0.50	1-1/16	1-1/8	1	1.31
M16-RU-8	1	1/2	2.38	1.04	0.86	1.23	0.90	0.41	1-3/8	1-1/2	7/8	1.5
M16-RU-12	1	3/4	2.38	1.04	0.86	1.23	0.96	0.62	1-3/8	1-1/2	1-1/8	1.5

Reducer Union

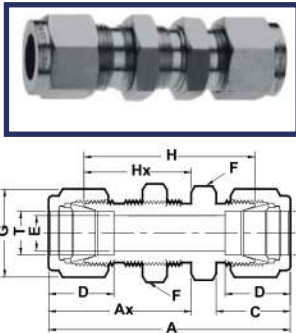
Metric Tube X
Metric Tube



Part No.	Tube OD (T)	Tube OD (Tx)	A	C	CX	D	DX	E	F (Hex)	G	GX	H
M3M-RU-2M	3	2	35.3	15.3	15.3	12.9	12.9	1.7	12	12	12	22.1
M6M-RU-2M	6	2	38.6	17.7	15.3	15.3	12.9	1.7	14	14	12	24.6
M6M-RU-3M	6	3	38.6	17.7	15.3	15.3	12.9	2.4	14	14	12	24.6
M6M-RU-4M	6	4	39.4	17.7	16.1	15.3	13.7	2.4	14	14	12	25.4
M8M-RU-6M	8	6	42.3	18.6	17.7	16.2	15.3	4.2	15	16	14	27.4
M10M-RU-6M	10	6	44.5	19.5	17.7	17.2	15.3	4.2	18	19	14	29.5
M10M-RU-8M	10	8	45.1	19.5	18.6	17.2	16.2	6.4	18	19	16	30
M12M-RU-6M	12	6	47.0	22.0	17.7	22.8	15.3	4.8	22	22	14	29.5
M12M-RU-8M	12	8	47.8	22.0	18.6	22.8	16.2	6.4	22	22	16	30.2
M12M-RU-10M	12	10	48.7	22.0	19.5	22.8	17.2	7.9	22	22	19	31
M16M-RU-10M	16	10	49.5	22.0	19.5	24.4	17.2	7.9	24	25	19	31.8
M16M-RU-12M	16	12	52.0	22.0	22.0	24.4	22.8	9.5	24	25	22	31.8
M18M-RU-12M	18	12	53.5	22.0	22.0	24.4	22.8	9.5	27	30	22	33.3
M25M-RU-18M	25	18	61.0	26.5	22.0	31.3	24.4	15.1	35	38	30	38.6
M25M-RU-20M	25	20	62.3	26.5	22.0	31.3	26.0	15.9	35	38	32	39.9

Bulk Head Union

Fractional Tube X
Fractional Tube



Part No.	Tube OD (T)	A	AX	C	D	E	F (Hex)	G	H	HX	BHEAD HOLE DRILL	MAX BHEAD THICK
M1-BU	1/16	1.24	0.68	0.43	0.34	0.05	5/16	5/16	0.94	0.53	13/64	0.12
M2-BU	1/8	2.02	1.23	0.60	0.50	0.09	1/2	7/16	1.5	0.97	21/64	0.50
M3-BU	3/16	2.11	1.26	0.63	0.54	0.12	9/16	1/2	1.59	1	25/64	0.50
M4-BU	1/4	2.27	1.32	0.70	0.60	0.19	5/8	9/16	1.03	1.03	29/64	0.40
M5-BU	5/16	2.39	1.41	0.73	0.64	0.25	11/16	5/8	1.81	1.12	33/64	0.44
M6-BU	3/8	2.45	1.45	0.76	0.66	0.28	3/4	11/16	1.87	1.16	37/64	0.44
M8-BU	1/2	2.80	1.65	0.86	0.90	0.41	15/16	7/8	2	1.25	49/64	0.50
M10-BU	5/8	2.86	1.68	0.86	0.96	0.50	1-1/16	1	2.06	1.28	57/64	0.50
M12-BU	3/4	3.11	1.87	0.86	0.96	0.63	1-3/16	1-1/8	2.31	1.47	1-1/64	0.66
M14-BU	7/8	3.33	2.09	0.86	1.02	0.72	1-3/8	1-1/4	2.53	1.69	1-9/64	0.66

مت لوک (کیش)

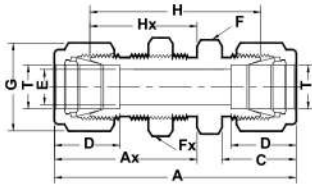
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Bulk Head Union

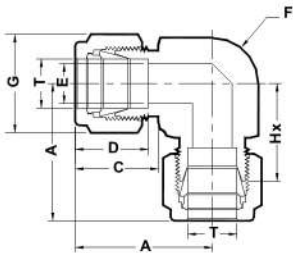
Metric Tube X Metric Tube



Part No.	Tube OD (T)	A	AX	C	D	E	F (Hex)	FX	G	H	HX	BHEAD HOLE DRILL	MAX BHEAD THICK
M3M-BU	3	51.3	31.2	15.3	12.9	2.4	14	14	12	38.1	24.6	8.3	12.7
M4M-BU	4	53.6	32.0	16.10	13.7	2.4	14	14	12	40.4	25.40	9.9	12.7
M6M-BU	6	57.7	33.6	17.7	15.3	4.2	16	16	14	42.9	26.2	11.5	10.2
M8M-BU	8	61.0	36.1	18.6	16.2	6.4	18	18	16	46	28.6	13.1	11.2
M10M-BU	10	63.7	37.0	19.5	17.2	7.9	22	22	19	48.5	29.4	16.3	11.2
M12M-BU	12	71.0	41.9	22.0	22.8	9.5	24	24	22	50.8	31.8	19.5	12.7
M14M-BU	14	72.5	42.6	22.0	24.4	11.1	27	27	25	52.3	32.5	22.5	12.7
M15M-BU	15	72.5	42.6	22.0	24.4	11.9	27	27	25	52.3	32.5	22.8	12.7
M16M-BU	16	72.5	42.6	22.0	24.4	12.7	27	27	25	52.3	32.5	22.8	12.7
M18M-BU	18	78.9	47.4	22.0	24.4	15.1	30	30	30	58.7	37.3	26.0	16.8
M20M-BU	20	84.5	53.0	22.0	26.0	15.9	35	35	32	64.3	42.9	29.0	19.0

Union Elbow

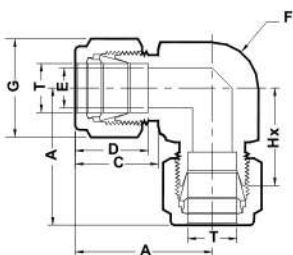
Fractional Tube X Fractional Tube



Part No.	Tube OD (T)	A	C	D	E	F (Hex)	G	HX
M1-UE	1/16	0.70	0.43	0.34	0.05	3/8	5/16	0.55
M2-UE	1/8	0.88	0.60	0.50	0.09	3/8	7/16	0.62
M3-UE	3/16	1.00	0.63	0.54	0.12	1/2	1/2	0.74
M4-UE	1/4	1.06	0.70	0.60	0.19	1/2	9/16	0.77
M5-UE	5/16	1.13	0.73	0.64	0.25	9/16	5/8	0.84
M6-UE	3/8	1.20	0.76	0.66	0.28	5/8	11/16	0.91
M8-UE	1/2	1.42	0.86	0.90	0.41	13/16	7/8	1.02
M10-UE	5/8	1.50	0.86	0.96	0.50	15/16	1	1.10
M12-UE	3/4	1.57	0.86	0.96	0.62	1-1/16	1-1/8	1.17
M14-UE	7/8	1.76	0.86	1.02	0.72	1-3/8	1-1/4	1.36
M16-UE	1	1.93	1.04	1.23	0.88	1-3/8	1-1/2	1.45

Union Elbow

Metric Tube X Metric Tube



Part No.	Tube OD (T)	A	C	D	E	F	G	HX
M3M-UE	3	22.3	15.3	12.9	2.4	3/8	12	15.7
M4M-UE	4	25.4	16.1	13.7	2.4	1/2	12	18.8
M6M-UE	6	27.0	17.7	15.3	4.2	1/2	14	19.6
M8M-UE	8	28.8	18.8	16.2	6.4	9/16	16	21.3
M10M-UE	10	31.5	19.5	17.2	7.9	11/16	19	23.9
M12M-UE	12	36.0	22.0	22.8	9.5	13/16	22	25.9
M14M-UE	14	38.0	22.0	24.4	11.1	15/16	25	27.9
M15M-UE	15	38.8	22.0	24.4	11.9	15/16	25	27.9
M16M-UE	16	38.0	22.0	24.4	12.7	15/16	25	27.9
M18M-UE	18	39.8	22.0	24.4	15.1	1-1/16	30	29.7
M20M-UE	20	44.6	22.0	26.0	15.9	1-3/8	32	34.5
M22M-UE	22	44.6	22.0	26.0	18.3	1-3/8	32	34.5
M25M-UE	25	49.1	26.5	31.3	21.8	1-3/8	38	36.8

مت لوک (کیش)

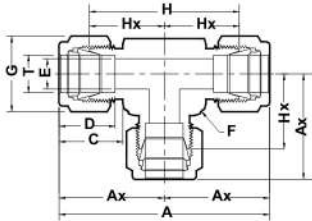
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Union Tee

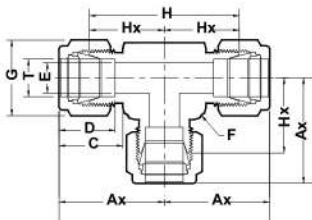
Fractional Tube X Fractional Tube



Part No.	Tube OD (T)	A	AX	C	D	E	F (Hex)	G	H	HX
M1-UT	1/16	1.40	0.70	0.43	0.34	0.05	3/8	5/16	1.10	0.55
M2-UT	1/8	1.76	0.88	0.60	0.50	0.09	3/8	7/16	1.24	0.62
M3-UT	3/16	1.92	0.96	0.63	0.54	0.12	7/16	1/2	1.40	0.70
M4-UT	1/4	2.12	1.06	0.70	0.60	0.19	1/2	9/16	1.54	0.77
M5-UT	5/16	2.34	1.17	0.73	0.64	0.25	5/8	5/8	1.76	0.88
M6-UT	3/8	2.40	1.20	0.76	0.66	0.28	5/8	11/16	1.82	0.91
M8-UT	1/2	2.84	1.42	0.86	0.90	0.41	13/16	7/8	2.04	1.02
M10-UT	5/8	3.06	1.53	0.86	0.96	0.50	1	1	2.26	1.13
M12-UT	3/4	3.14	1.57	0.86	0.96	0.62	1-1/16	1-1/8	2.34	1.17
M14-UT	7/8	3.52	1.76	0.86	1.02	0.72	1-3/8	1-1/4	2.72	1.36
M16-UT	1	3.86	1.93	1.04	1.23	0.88	1-3/8	1-1/2	2.90	1.45

Union Tee

Metric Tube X Metric Tube



Part No.	Tube OD (T)	A	AX	C	D	E	F (Hex)	G	H	HX
M2M-UT	2	44.7	22.3	15.3	12.9	1.7	3/8	12	31.50	15.7
M3M-UT	3	44.7	22.3	15.3	12.9	2.4	3/8	12	31.50	15.7
M4M-UT	4	50.8	25.4	16.1	13.7	2.4	1/2	12	37.60	18.8
M6M-UT	6	53.9	27.0	17.7	15.3	4.2	1/2	14	39.10	19.6
M8M-UT	8	59.7	29.9	18.6	16.2	6.4	5/8	16	44.70	22.4
M10M-UT	10	63.0	31.5	19.5	17.2	7.9	11/16	19	47.80	23.9
M12M-UT	12	72.0	36.0	22.0	22.8	9.5	13/16	22	51.80	25.9
M14M-UT	14	77.6	38.8	22.0	24.4	11.1	1	25	57.40	28.7
M15M-UT	15	77.6	38.8	22.0	24.4	11.9	1	25	57.40	28.7
M16M-UT	16	77.6	38.8	22.0	24.4	12.7	1	25	57.40	28.7
M18M-UT	18	79.5	38.8	22.0	24.4	15.1	1-1/16	30	59.40	29.7
M20M-UT	20	89.3	44.6	22.0	26.0	15.9	1-3/8	32	69.10	34.5
M22M-UT	22	89.3	44.6	22.0	26.0	18.3	1-3/8	32	69.10	34.5
M25M-UT	25	98.3	49.1	26.5	31.3	21.8	1-3/8	38	73.70	36.8

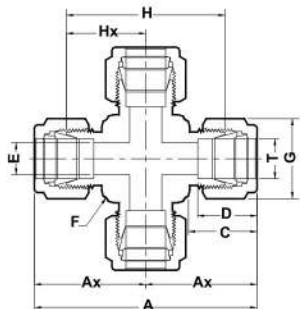
مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

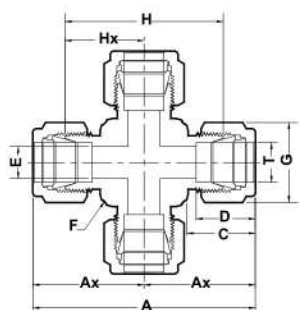
Note :All Dimension for reference only, subject to change

Union Cross Metric Tube X Metric Tube



Part No.	Tube OD (T)	A	AX	C	D	E	F (Hex)	G	H	HX
M3M-UC	3	44.7	22.3	15.3	12.9	2.4	3/8	12	31.50	15.7
M4M-UC	4	50.8	25.4	16.10	13.70	2.40	1/2	12.00	37.60	18.8
M6M-UC	6	53.9	27.0	17.7	15.3	4.2	1/2	14	39.10	19.6
M8M-UC	8	59.7	29.9	18.6	16.2	6.4	5/8	16	44.70	22.4
M10M-UC	10	67.0	33.5	19.5	17.2	7.9	13/16	19	51.80	25.9
M12M-UC	12	72.0	36.0	22.0	22.8	9.5	13/16	22	51.80	25.9
M16M-UC	16	74.0	37.0	22.0	24.4	12.7	15/16	25	53.80	26.9
M18M-UC	18	76.6	38.3	22.0	24.4	15.1	1-1/16	30	56.40	28.2
M20M-UC	20	89.3	44.6	22.0	26.0	15.9	1-3/8	32	69.10	34.5
M25M-UC	25	98.3	49.1	26.5	31.3	21.8	1-3/8	38	73.70	36.8

Union Cross Fractional Tube X Fractional Tube

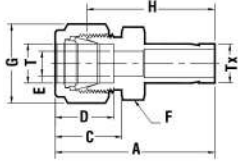


Part No.	Tube OD (T)	A	AX	C	D	E	F (Hex)	G	H	HX
M2-UC	1/8	1.76	0.88	0.60	0.50	0.09	3/8	7/16	1.24	0.62
M3-UC	3/16	1.92	0.95	0.86	0.54	0.12	7/16	1/2	1.38	0.66
M4-UC	1/4	2.12	1.06	0.70	0.60	0.19	1/2	9/16	1.54	0.77
M5-UC	5/16	2.34	1.17	0.73	0.64	0.25	5/8	5/8	1.76	0.88
M6-UC	3/8	2.40	1.20	0.76	0.66	0.28	5/8	11/16	1.82	0.91
M8-UC	1/2	2.84	1.42	0.86	0.90	0.41	13/16	7/8	2.04	1.02
M10-UC	5/8	2.86	1.43	0.86	0.96	0.50	1.00	1.00	2.06	1.03
M12-UC	3/4	3.14	1.57	0.86	0.96	0.62	1-1/16	1-1/8	2.34	1.17
M14-UC	7/8	3.52	1.76	0.86	1.02	0.72	1-3/8	1-1/4	2.72	1.36
M16-UC	1	3.86	1.93	1.04	1.23	0.88	1-3/8	1-1/2	2.90	1.45

مت لوک (کیش)

Reducer

Fractional Tube X Fractional Stub



Part No.	Tube OD (T)	Tube OD (Tx)	A	C	D	E	F (Hex)	G	H
M1-R-2	1/16	1/8	1.15	0.43	0.34	0.05	5/16	5/16	1.00
M1-R-4	1/16	1/4	1.24	0.43	0.34	0.05	5/16	5/16	1.09
M2-R-1	1/8	1/16	1.14	0.60	0.50	0.03	7/16	7/16	0.88
M2-R-2	1/8	1/8	1.32	0.60	0.50	0.08	7/16	7/16	1.06
M2-R-3	1/8	3/16	1.35	0.60	0.50	0.09	7/16	7/16	1.09
M2-R-4	1/8	1/4	1.42	0.60	0.50	0.09	7/16	7/16	1.16
M2-R-6	1/8	3/8	1.48	0.60	0.50	0.09	7/16	7/16	1.22
M2-R-8	1/8	1/2	1.74	0.60	0.50	0.09	9/16	7/16	1.48
M3-R-2	3/16	1/8	1.37	0.63	0.54	0.08	7/16	1/2	1.11
M3-R-4	3/16	1/4	1.46	0.63	0.54	0.12	7/16	1/2	1.2
M4-R-2	1/4	1/8	1.45	0.70	0.60	0.08	1/2	9/16	1.16
M4-R-3	1/4	3/16	1.48	0.70	0.60	0.12	1/2	9/16	1.19
M4-R-4	1/4	1/4	1.54	0.70	0.60	0.19	1/2	9/16	1.25
M4-R-5	1/4	5/16	1.57	0.70	0.60	0.19	1/2	9/16	1.28
M4-R-6	1/4	3/8	1.60	0.70	0.60	0.19	1/2	9/16	1.31
M4-R-8	1/4	1/2	1.82	0.70	0.60	0.19	9/16	9/16	1.53
M4-R-10	1/4	5/8	1.89	0.70	0.60	0.19	11/16	9/16	1.6
M4-R-12	1/4	3/4	1.88	0.70	0.60	0.19	13/16	9/16	1.59
M5-R-6	5/16	3/8	1.65	0.73	0.64	0.25	9/16	5/8	1.36
M5-R-8	5/16	1/2	1.87	0.73	0.64	0.25	9/16	5/8	1.58
M6-R-4	3/8	1/4	1.63	0.76	0.66	0.19	5/8	11/16	1.34
M6-R-6	3/8	3/8	1.70	0.76	0.66	0.28	5/8	11/16	1.41
M6-R-8	3/8	1/2	1.91	0.76	0.66	0.28	5/8	11/16	1.62
M6-R-10	3/8	5/8	1.98	0.76	0.66	0.28	11/16	11/16	1.69
M6-R-12	3/8	3/4	1.98	0.76	0.66	0.28	13/16	11/16	1.69
M8-R-4	1/2	1/4	1.77	0.86	0.90	0.19	13/16	7/8	1.37
M8-R-6	1/2	3/8	1.84	0.86	0.90	0.28	13/16	7/8	1.44
M8-R-8	1/2	1/2	2.06	0.86	0.90	0.39	13/16	7/8	1.66
M8-R-10	1/2	5/8	2.12	0.86	0.90	0.41	13/16	7/8	1.72
M8-R-12	1/2	3/4	2.12	0.86	0.90	0.41	13/16	7/8	1.72
M8-R-16	1/2	1	2.37	0.86	0.90	0.41	1-1/16	7/8	1.97
M10-R-12	5/8	3/4	2.15	0.86	0.96	0.50	15/16	1	1.75
M10-R-14	5/8	7/8	2.21	0.86	0.96	0.50	15/16	1	1.81
M10-R-16	5/8	1	2.40	0.86	0.96	0.50	1-1/16	1	2.00
M12-R-8	3/4	1/2	2.15	0.86	0.96	0.39	1-1/16	1-1/8	1.75
M12-R-16	3/4	1	2.46	0.86	0.96	0.62	1-1/16	1-1/8	2.06
M16-R-20	1	1-1/4	3.17	1.04	1.23	0.88	1-3/8	1-1/2	2.69
M16-R-24	1	1-1/2	3.51	1.04	1.23	0.88	1-5/8	1-1/2	3.03
M16-R-32	1	2	4.43	1.04	1.23	0.88	2-1/8	1-1/2	3.95

مت لوک (کیش)

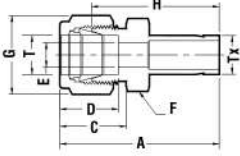
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Reducer

Metric Tube X Fractional Stub



Part No.	Tube OD (T)	Tube OD (Tx)	A	C	D	E	F (Hex)	G	H
M2M-R-2	2	1/8	33.5	15.3	12.9	1.7	12	12	26.9
M3M-R-2	3	1/8	33.5	15.3	12.9	2.0	12	12	26.9
M3M-R-4	3	1/4	36.1	15.3	12.9	2.4	12	12	29.5
M4M-R-4	4	1/4	37.1	16.1	13.7	2.4	12	12	30.5
M6M-R-2	6	1/8	36.9	17.7	15.3	2.0	14	14	29.5
M6M-R-4	6	1/4	39.2	17.7	15.3	4.9	14	14	31.8
M6M-R-5	6	5/16	39.9	17.7	15.3	4.8	14	14	32.5
M6M-R-6	6	3/8	40.7	17.7	15.3	4.8	14	14	33.3
M6M-R-8	6	1/2	46.3	17.7	15.3	4.8	14	14	38.9
M8M-R-6	8	3/8	42.0	18.6	16.2	6.4	15	16	34.5
M8M-R-8	8	1/2	47.6	18.6	16.2	6.4	15	16	40.1
M10M-R-6	10	3/8	44.2	19.5	17.2	7.1	18	19	36.6
M10M-R-8	10	1/2	49.8	19.5	17.2	7.9	18	19	42.2
M12M-R-8	12	1/2	52.3	22.0	22.8	9.5	22	22	42.2
M12M-R-12	12	3/4	53.8	22.0	22.8	9.5	22	22	43.7
M18M-R-12	18	3/4	56.1	22.0	24.4	15.1	27	30	46
M18M-R-16	18	1	62.4	22.0	24.4	15.1	27	30	52.3
M25M-R-16	25	1	69.5	26.5	31.3	20.2	35	38	57.2

مت لوک (کیش)

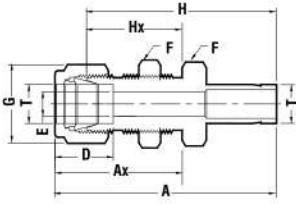
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Bulkhead Reducer

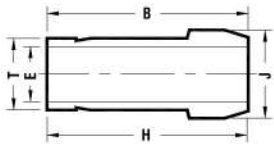
Fractional Tube X
Fractional Stub



Part No.	Tube OD (T)	A	AX	D	E	F (Hex)	G	H	HX	BHEAD HOLE DRILL	PANEL THICKNESS
M2-BR	1/4	1.95	1.23	0.50	0.08	1/2	7/16	1.69	0.97	21/64	0.50
M4-BR	1/4	2.20	1.32	0.60	0.19	5/8	9/16	1.91	1.03	29/64	0.40
M6-BR	3/8	2.41	1.45	0.66	0.28	3/4	11/16	2.12	1.16	37/64	0.44
M8-BR	1/2	2.87	1.65	0.90	0.39	15/16	7/8	2.47	1.25	49/64	0.50
M10-BR	5/8	2.96	1.68	0.96	0.50	1-1/16	1	2.56	1.28	57/64	0.50
M16-BR	1	3.95	2.26	1.23	0.80	1-5/8	1-1/2	3.47	1.78	1-21/64	0.70

Port Connector

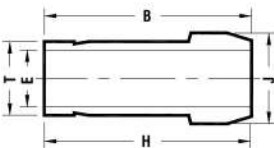
Connects Two
Fractional Stub



Part No.	Tube OD (T)	B	E	H	J
M1-PC-1	1/16	0.42	0.03	0.54	0.13
M2-PC-2	1/8	0.62	0.09	0.58	0.24
M3-PC-3	3/16	0.67	0.16	0.98	0.30
M4-PC-4	1/4	0.74	0.19	0.97	0.37
M5-PC-5	5/16	0.79	0.25	1.02	0.43
M6-PC-6	3/8	0.80	0.30	1.03	0.50
M8-PC-8	1/2	1.02	0.39	1.41	0.62
M12-PC-12	3/4	1.09	0.59	1.47	0.87
M16-PC-16	1	1.36	0.80	1.89	1.12

Port Connector

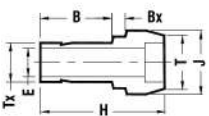
Connects Two
Metric Stub



Part No.	Tube OD (T)	B	E	H	J
M3M-PC	3	15.7	2.1	22.2	6.0
M6M-PC	6	18.7	4.4	24.6	9.0
M8M-PC	8	20.0	6.2	25.9	11.0
M10M-PC	10	20.2	8.2	26.1	13.1
M12M-PC	12	26.0	9.1	35.8	15.0
M15M-PC	15	27.6	12.7	37.4	19.0
M16M-PC	16	27.6	12.7	37.4	19.0
M18M-PC	18	27.6	13.9	37.4	21.0
M20M-PC	20	29.2	15.1	38.9	23.0
M25M-PC	25	34.5	19.8	48.0	28.0

Reducer Port Connector

Connects Two
Fractional Stub



Part No.	Tube OD (T)	Tube OD (Tx)	B	BX	E	H	J
M2-RPC-1	1/8	1/16	0.34	0.08	0.03	0.68	0.24
M4-RPC-1	1/4	1/16	0.34	0.14	0.03	0.71	0.37
M4-RPC-2	1/4	1/8	0.53	0.13	0.09	0.89	0.37
M6-RPC-2	3/8	1/8	0.53	0.15	0.09	0.98	0.50
M6-RPC-4	3/8	1/4	0.62	0.13	0.19	0.98	0.50
M8-RPC-4	1/2	1/4	0.62	0.15	0.19	1.15	0.60
M8-RPC-6	1/2	3/8	0.69	0.13	0.28	1.2	0.62
M12-RPC-8	3/4	1/2	0.96	0.15	0.39	1.49	0.87
M16-RPC-8	1	1/2	0.96	0.19	0.39	1.68	1.12
M16-RPC-12	1	3/4	1.02	0.16	0.59	1.71	1.12

مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

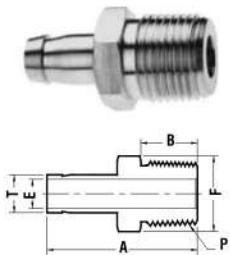
Note :All Dimension for reference only, subject to change

Reducer Port Connector Connects Two Metric Stub



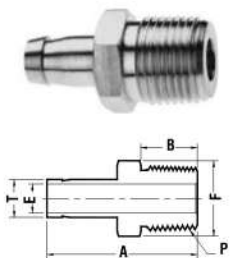
Part No.	Tube OD (T)	Tube OD (Tx)	B	Bx	E	H	J
M6M-RPC-3M	6	3	13.5	3.2	2.2	22.6	9.0
M8M-RPC-6M	8	6	15.7	3.1	4.6	24.7	11.0
M10M-RPC-6M	10	6	15.7	3.4	4.6	25	13.1
M10M-RPC-8M	10	8	17.0	3.1	6.4	26	13.1
M12M-RPC-6M	12	6	15.7	3.6	4.6	29.1	15.0
M12M-RPC-8M	12	8	16.8	3.4	6.4	29.8	15.0
M12M-RPC-10M	12	10	17.5	3.1	7.7	30.4	15.0
M16M-RPC-12M	16	12	23.1	3.4	9.1	36.2	19.0

Male Adapter BSPT(M) For Fractional Stub



Part No.	Tube OD (T)	BSPT Thread (P)	A	B	E	F (Hex)
M2-MA-2IT	1/8	1/8	1.16	0.38	0.09	7/16
M2-MA-4IT	1/8	1/4	1.37	0.56	0.09	9/16
M4-MA-2IT	1/4	1/8	1.25	0.38	0.19	7/16
M4-MA-4IT	1/4	1/4	1.46	0.56	0.19	9/16
M4-MA-8IT	1/4	1/2	1.66	0.75	0.21	7/8
M5-MA-2IT	5/16	1/8	1.29	0.38	0.21	7/16
M5-MA-4IT	5/16	1/4	1.50	0.56	0.21	9/16
M6-MA-4IT	3/8	1/4	1.53	0.56	0.28	9/16
M6-MA-6IT	3/8	3/8	1.56	0.56	0.28	11/16
M6-MA-8IT	3/8	1/2	1.78	0.75	0.28	7/8
M8-MA-4IT	1/2	1/4	1.75	0.56	0.28	9/16
M8-MA-6IT	1/2	3/8	1.78	0.56	0.38	11/16
M8-MA-8IT	1/2	1/2	2.00	0.75	0.39	7/8
M10-MA-8IT	5/8	1/2	2.00	0.75	0.46	7/8
M12-MA-12IT	3/4	3/4	2.06	0.75	0.59	1-1/16
M16-MA-16IT	1	1	2.60	0.94	0.80	1-3/8

Male Adapter BSPT(M) For Metric Stub



Part No.	Tube OD (T)	BSPT Thread (P)	A	B	E	F (Hex)
M3M-MA-2IT	3	1/8	29.4	9.7	1.8	12
M4M-MA-2IT	4	1/8	29.4	9.7	2.0	12
M6M-MA-2IT	6	1/8	32.8	9.7	4.6	12
M6M-MA-4IT	6	1/4	38.1	14.2	4.6	14
M8M-MA-4IT	8	1/4	39.1	14.2	6.2	14
M8M-MA-6IT	8	3/8	39.9	14.2	5.0	14
M10M-MA-4IT	10	1/4	39.9	14.2	7.1	14
M10M-MA-6IT	10	3/8	40.6	14.2	7.5	18
M10M-MA-8IT	10	1/2	46.2	19.1	7.5	18
M12M-MA-4IT	12	1/4	46.5	14.2	7.1	16
M12M-MA-6IT	12	3/8	46.2	14.2	9.1	18
M12M-MA-8IT	12	1/2	51.8	19.1	9.1	22
M16M-MA-8IT	16	1/2	50.8	19.1	9.1	18
M18M-MA-12IT	18	3/4	51.6	19.1	14.0	27
M20M-MA-12IT	20	3/4	52.4	19.1	15.1	27
M25M-MA-16IT	25	1	65.9	23.9	19.8	35

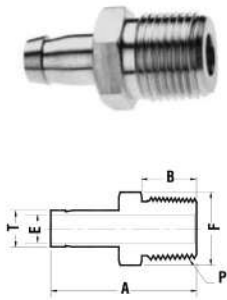
مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.
MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Male Adapter NPT(M)

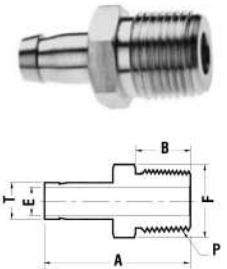
For Fractional Stub



Part No.	Tube OD (T)	NPT Thread (P)	A	B	E	F (Hex)
M1-MA-2N	1/16	1/8	1.00	0.38	0.09	7/16
M2-MA-2N	1/8	1/8	1.16	0.38	0.09	7/16
M2-MA-4N	1/8	1/4	1.37	0.56	0.09	9/16
M3-MA-2N	3/16	1/8	1.20	0.38	0.12	7/16
M3-MA-4N	3/16	1/4	1.42	0.56	0.12	9/16
M4-MA-2N	1/4	1/8	1.25	0.38	0.19	7/16
M4-MA-4N	1/4	1/4	1.42	0.56	0.19	9/16
M4-MA-6N	1/4	3/8	1.49	0.56	0.19	11/16
M4-MA-8N	1/4	1/2	1.71	0.75	0.19	7/8
M5-MA-2N	5/16	1/8	1.29	0.38	0.19	7/16
M5-MA-4N	5/16	1/4	1.50	0.56	0.25	9/16
M5-MA-6N	5/16	3/8	1.53	0.56	0.21	11/16
M5-MA-8N	5/16	1/2	1.74	0.75	0.21	7/8
M6-MA-2N	3/8	1/8	1.32	0.38	0.19	7/16
M6-MA-4N	3/8	1/4	1.53	0.56	0.28	9/16
M6-MA-6N	3/8	3/8	1.56	0.56	0.28	11/16
M6-MA-8N	3/8	1/2	1.78	0.75	0.28	7/8
M8-MA-4N	1/2	1/4	1.75	0.56	0.28	9/16
M8-MA-6N	1/2	3/8	1.78	0.56	0.39	11/16
M8-MA-8N	1/2	1/2	2.00	0.75	0.39	7/8
M10-MA-8N	5/8	1/2	2.06	0.75	0.47	7/8
M12-MA-8N	3/4	1/2	2.06	0.75	0.47	7/8
M12-MA-12N	3/4	3/4	2.06	0.75	0.59	1-11/16
M12-MA-16N	3/4	1	2.41	0.94	0.81	1-3/8
M16-MA-12N	1	3/4	2.31	0.75	0.62	1-1/16
M16-MA-16N	1	1	2.60	0.94	0.81	1-3/8

Male Adapter NPT(M)

For Metric Stub



Part No.	Tube OD (T)	NPT Thread (P)	A	B	E	F (Hex)
M3M-MA-2N	3	1/8	29.4	9.7	1.8	12
M4M-MA-2N	4	1/8	29.4	9.7	2.0	12
M6M-MA-2N	6	1/8	32.8	9.7	4.6	12
M6M-MA-4N	6	1/4	38.1	14.2	4.6	14
M6M-MA-6N	6	3/8	36.5	14.2	3.0	18
M6M-MA-8N	6	1/2	42.1	19.1	3.0	22
M8M-MA-4N	8	1/4	39.1	14.2	6.2	14
M8M-MA-6N	8	3/8	38.1	14.2	6.4	12
M10M-MA-4N	10	1/4	39.9	14.2	7.1	14
M10M-MA-6N	10	3/8	40.6	14.2	7.7	18
M10M-MA-8N	10	1/2	46.2	19.2	7.7	22
M12M-MA-4N	12	1/4	46.5	14.2	7.1	16
M12M-MA-6N	12	3/8	44.5	14.2	6.1	27
M12M-MA-8N	12	1/2	52.0	19.1	9.1	22
M16M-MA-8N	16	1/2	50.8	19.1	12.7	22
M16M-MA-12N	16	3/4	51.6	19.1	12.7	27
M18M-MA-8N	18	1/2	50.8	19.1	12.7	22
M18M-MA-12N	18	3/4	51.6	19.1	14.0	27
M20M-MA-8N	20	1/2	51.8	19.1	15.0	22
M20M-MA-12N	20	3/4	52.4	19.1	15.1	27
M25M-MA-16N	25	1	65.9	23.9	19.8	35

مت لوک (کیش)

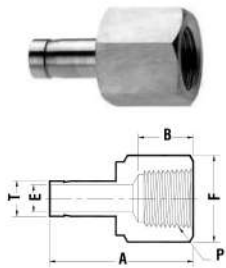
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Female Adapter NPT(F)

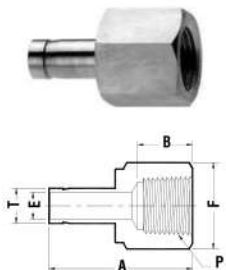
For Fractional Stub



Part No.	Tube OD (T)	NPT Thread (P)	A	B	E	F (HEX)
M1-FA-2N	1/16	1/8	1.07	0.41	0.031	9/16
M2-FA-2N	1/8	1/8	1.24	0.41	0.09	9/16
M2-FA-4N	1/8	1/4	1.39	0.59	0.09	3/4
M3-FA-2N	3/16	1/8	1.25	0.41	0.116	9/16
M3-FA-4N	3/16	1/4	1.41	0.59	0.12	3/4
M4-FA-2N	1/4	1/8	1.30	0.41	0.19	9/16
M4-FA-4N	1/4	1/4	1.46	0.59	0.19	3/4
M4-FA-6N	1/4	3/8	1.55	0.59	0.19	7/8
M4-FA-8N	1/4	1/2	1.76	0.78	0.19	1-1/16
M5-FA-2N	5/16	1/8	1.34	0.41	0.219	9/16
M5-FA-4N	5/16	1/4	1.48	0.59	0.25	3/4
M5-FA-6N	5/16	3/8	1.59	0.59	0.281	7/8
M6-FA-2N	3/8	1/8	1.35	0.41	0.28	9/16
M6-FA-4N	3/8	1/4	1.50	0.59	0.28	3/4
M6-FA-6N	3/8	3/8	1.59	0.59	0.28	7/8
M6-FA-8N	3/8	1/2	1.84	0.78	0.28	1-1/16
M8-FA-4N	1/2	1/4	1.71	0.59	0.39	3/4
M8-FA-6N	1/2	3/8	1.79	0.59	0.39	7/8
M8-FA-8N	1/2	1/2	2.04	0.78	0.39	1-1/16
M10-FA-6N	5/8	3/8	1.86	0.59	0.469	7/8
M10-FA-8N	5/8	1/2	2.09	0.78	0.50	1-1/16
M12-FA-8N	3/4	1/2	2.08	0.78	0.59	1-1/16
M12-FA-12N	3/4	3/4	2.16	0.81	0.59	1-5/16
M12-FA-16N	3/4	1	2.30	1.00	0.59	1-5/8
M14-FA-12N	7/8	3/4	2.22	0.81	0.57	1-5/16
M16-FA-12N	1	3/4	2.39	0.81	0.80	1-5/16
M16-FA-16N	1	1	2.53	1.00	0.80	1-5/8

Female Adapter NPT(F)

For Metric Stub



Part No.	Tube OD (T)	NPT Thread (P)	A	B	E	F (HEX)
M3M-FA-2N	3	1/8	31.3	9.90	1.3	14
M4M-FA-2N	4	1/8	29.4	9.90	2.0	14
M6M-FA-2N	6	1/8	32.5	9.9	4.6	14
M6M-FA-4N	6	1/4	37.1	15.0	4.6	19
M8M-FA-2N	8	1/8	35.1	9.90	6.4	14
M8M-FA-4N	8	1/4	37.6	15.0	6.4	19
M8M-FA-6N	8	3/8	36.5	15.0	7.5	22
M10M-FA-4N	10	1/4	38.1	15.0	7.7	19
M10M-FA-6N	10	3/8	40.1	15.0	7.7	22
M10M-FA-8N	10	1/2	46.5	19.8	7.7	27
M12M-FA-4N	12	1/4	43.7	15.0	9.1	19
M12M-FA-6N	12	3/8	42.9	15.0	12.7	22
M12M-FA-8N	12	1/2	52.3	19.8	9.1	27
M16M-FA-8N	16	1/2	49.2	19.8	12.7	27
M18M-FA-12N	18	3/4	52.4	20.60	14.0	33
M20M-FA-8N	20	1/2	50	19.80	15.0	27
M20M-FA-12N	20	3/4	53.2	20.60	15.1	33
M25M-FA-16N	25	1	66.7	25.40	19.8	41

مت لوک (کیش)

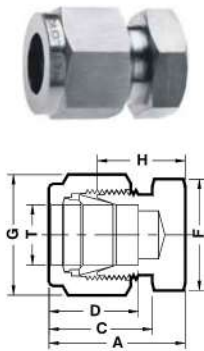
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Cap Tube

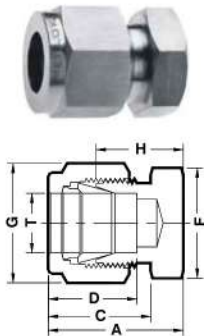
Fractional Tube



Part No.	Tube OD (T)	A	C	D	F (Hex)	G	H
M1-C	1/16	0.59	0.43	0.34	5/16	5/16	0.44
M2-C	1/8	0.79	0.60	0.50	7/16	7/16	0.53
M3-C	3/16	0.84	0.63	0.54	7/16	1/2	0.58
M4-C	1/4	0.92	0.70	0.60	1/2	9/16	0.63
M5-C	5/16	0.96	0.73	0.64	9/16	5/8	0.67
M6-C	3/8	1.01	0.76	0.66	5/8	11/16	0.72
M8-C	1/2	1.15	0.86	0.90	13/16	7/8	0.75
M10-C	5/8	1.18	0.86	0.96	15/16	1	0.78
M12-C	3/4	1.24	0.86	0.96	1-1/16	1-1/8	0.84
M14-C	7/8	1.34	0.86	1.02	1-3/16	1-1/4	0.94
M16-C	1	1.51	1.04	1.23	1-3/8	1-1/2	1.03

Cap Tube

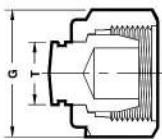
Metric Tube



Part No.	Tube OD (T)	A	C	D	F (Hex)	G	H
M2M-C	2	20.1	15.3	12.9	12	12	13.5
M3M-C	3	20.1	15.3	12.9	12	12	13.5
M4M-C	4	21.3	16.1	13.7	12	12	14.7
M6M-C	6	23.10	17.7	15.3	14	14	15.7
M8M-C	8	24.50	18.6	16.2	16	16	17
M10M-C	10	26.60	19.5	17.2	18	19	19
M12M-C	12	29.10	22.0	22.8	22	22	19
M14M-C	14	29.90	22.0	24.4	25	25	19.8
M15M-C	15	29.90	22.0	24.4	25	25	19.8
M16M-C	16	29.90	22.0	24.4	25	25	19.8
M18M-C	18	31.40	22.0	24.4	27	30	21.3
M20M-C	20	34.00	22.0	26.0	30	32	23.9
M22M-C	22	34.00	22.0	26.0	30	32	23.9
M25M-C	25	38.50	26.5	31.3	35	38	26.2

Plug Tube

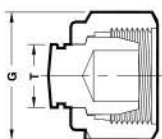
Fractional Tube



Part No.	Tube OD (T)	G (Hex)
M1-TP	1/16	5/16
M2-TP	1/8	7/16
M3-TP	3/16	1/2
M4-TP	1/4	9/16
M5-TP	5/16	5/8
M6-TP	3/8	11/16
M8-TP	1/2	7/8
M10-TP	5/8	1
M12-TP	3/4	1-1/8
M14-TP	7/8	1-1/4
M16-TP	1	1-1/2

Plug Tube

Metric Tube



Part No.	Tube OD (T)	G (Hex)
M2M-TP	2	12
M3M-TP	3	12
M6M-TP	6	12
M8M-TP	8	14
M10M-TP	10	16
M12M-TP	12	19
M14M-TP	14	22
M15M-TP	15	25
M16M-TP	16	25
M18M-TP	18	30
M20M-TP	20	32
M22M-TP	22	32
M25M-TP	25	38

Note :All Dimension for reference only, subject to change

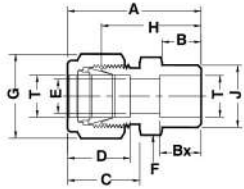
مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Tube Socket Weld Union

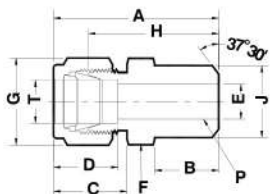
Fractional Tube



Part No.	Tube OD (T)	A	B	BX	C	D	E	F (Hex)	G	H	J
M2-TSWU	1/8	1.14	0.34	0.25	0.60	0.50	0.09	7/16	7/16	0.88	0.31
M3-TSWU	3/16	1.17	0.34	0.25	0.91	0.54	0.125	7/16	1/2	0.91	0.42
M4-TSWU	1/4	1.32	0.41	0.31	0.70	0.60	0.19	1/2	9/16	1.03	0.44
M6-TSWU	3/8	1.48	0.47	0.38	0.76	0.66	0.28	5/8	11/16	1.19	0.62
M8-TSWU	1/2	1.62	0.47	0.50	0.86	0.90	0.41	13/16	7/8	1.22	0.75
M10-TSWU	5/8	1.65	0.47	0.56	0.87	0.96	0.50	1-5/16	1.00	1.25	0.92
M12-TSWU	3/4	1.71	0.47	0.56	0.86	0.96	0.62	1-1/16	1-1/8	1.31	1.05
M16-TSWU	1	2.07	0.56	0.75	1.04	1.23	0.88	1-3/8	1-1/2	1.59	1.31

Male Pipe Weld Connector

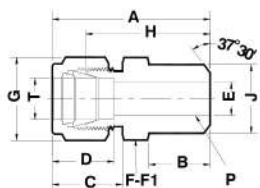
Fractional Tube



Part No.	Tube OD (T)	PIPE BW	A	B	C	D	E	F (Hex)	G	H	J
M2-MPWC-2	1/8	1/8	1.20	0.38	0.60	0.50	0.09	7/16	7/16	0.94	0.405
M3-MPWC-2	3/16	1/8	1.23	0.38	0.63	0.54	0.12	7/16	1/2	0.97	0.405
M4-MPWC-2	1/4	1/8	1.29	0.38	0.70	0.60	0.19	1/2	9/16	1	0.405
M4-MPWC-4	1/4	1/4	1.49	0.56	0.70	0.60	0.19	9/16	9/16	1.20	0.540
M5-MPWC-2	5/16	1/8	1.34	0.38	0.73	0.64	0.20	9/16	5/8	1.05	0.405
M5-MPWC-4	5/16	1/4	1.52	0.56	0.73	0.64	0.25	9/16	5/8	1.23	0.540
M6-MPWC-4	3/8	1/4	1.57	0.56	0.76	0.66	0.28	5/8	11/16	1.28	0.540
M6-MPWC-6	3/8	3/8	1.57	0.56	0.76	0.66	0.28	11/16	11/16	1.28	0.675
M6-MPWC-8	3/8	1/2	1.82	0.75	0.76	0.66	0.28	7/8	11/16	1.53	0.840
M6-MPWC-12	3/8	3/4	1.88	0.75	0.76	0.66	0.28	1-1/16	11/16	1.59	1.050
M8-MPWC-6	1/2	3/8	1.71	0.56	0.86	0.90	0.41	13/16	7/8	1.31	0.675
M8-MPWC-8	1/2	1/2	1.93	0.75	0.86	0.90	0.41	7/8	7/8	1.53	0.840
M8-MPWC-12	1/2	3/4	1.99	0.75	0.86	0.90	0.41	1-1/16	7/8	1.59	1.050
M10-MPWC-8	5/8	1/2	1.93	0.75	0.86	0.96	0.50	15/16	1	1.53	0.840
M12-MPWC-12	3/4	3/4	1.99	0.75	0.86	0.96	0.62	1-1/16	1-1/8	1.59	1.050
M16-MPWC-16	1	1	2.45	0.94	1.04	1.23	0.88	1-3/8	1-1/2	1.97	1.315

Male Pipe Weld Connector

Metric Tube



Part No.	Tube OD (T)	PIPE BW	A	B	C	D	E	F (Hex)	F1	G	H	J
M3M-MPWC-2	3	1/8	30.5	9.7	15.3	12.9	2.4	12	1/2	12	23.9	10.3
M4M-MPWC-2	4	1/8	31.2	9.7	16.1	13.7	2.4	12	1/2	12	24.6	10.3
M6M-MPWC-2	6	1/8	32.8	9.7	17.7	15.3	4.2	14	1/2	14	25.4	10.3
M6M-MPWC-4	6	1/4	37.9	14.2	17.7	15.3	4.2	14	9/16	14	30.5	13.7
M8M-MPWC-2	8	1/8	34.2	9.7	18.6	16.2	5.1	15	9/16	16	26.7	10.3
M8M-MPWC-4	8	1/4	38.7	14.2	18.6	16.2	6.4	15	9/16	16	31.2	13.7
M8M-MPWC-8	8	1/2	45.6	19.0	18.6	16.2	6.4	22	7/8	16	38.1	21.3
M10M-MPWC-4	10	1/4	40.9	14.2	19.5	17.2	7.1	18	11/16	19	33.3	13.7
M10M-MPWC-6	10	3/8	40.9	14.2	19.5	17.2	7.9	18	11/16	19	33.3	17.1
M10M-MPWC-8	10	1/2	46.5	19.0	19.5	17.2	7.9	22	7/8	19	38.9	21.3
M12M-MPWC-4	12	1/4	43.4	14.2	22.0	22.8	7.1	22	13/16	22	33.3	13.7
M12M-MPWC-6	12	3/8	43.4	14.2	22.0	22.8	9.5	22	13/16	22	33.3	17.1
M12M-MPWC-8	12	1/2	49.0	19.0	22.0	22.8	9.5	22	7/8	22	38.9	21.3
M14M-MPWC-6	14	3/8	44.1	14.2	22.0	24.4	10.3	24	15/16	25	34	17.1
M15M-MPWC-8	15	1/2	49.0	19.0	22.0	24.4	11.9	24	15/16	25	38.9	21.3
M16M-MPWC-8	16	1/2	49.0	19.0	22.0	24.4	12.7	24	15/16	25	38.9	21.3
M18M-MPWC-8	18	1/2	50.50	19.0	22.0	24.4	13.5	27	1-1/16	30	40.4	21.3

مت لوک (کیش)

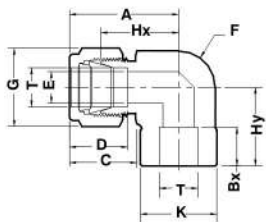
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Tube Socket Weld Elbow

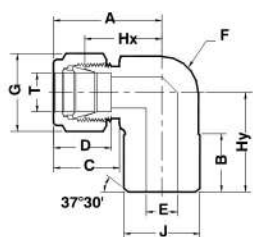
Fractional Tube X SW Tube



Part No.	Tube OD (T)	A	Bx	C	D	E	F (Hex)	G	Hx	Hy	K
M2-TSWE	1/8	0.92	0.16	0.60	0.50	0.09	7/16	7/16	0.66	0.63	0.38
M3-TSWE	3/16	0.98	0.20	0.91	0.54	0.125	7/16	1/2	0.72	0.69	0.44
M4-TSWE	1/4	1.06	0.31	0.70	0.60	0.19	1/2	9/16	0.77	0.77	0.50
M6-TSWE	3/8	1.20	0.38	0.76	0.66	0.28	5/8	11/16	0.91	0.91	0.62
M8-TSWE	1/2	1.42	0.50	0.86	0.90	0.41	13/16	7/8	1.02	1.02	0.81
M10-TSWE	5/8	1.56	0.56	0.87	0.96	0.50	1-5/16	1.00	1.16	1.16	0.94
M12-TSWE	3/4	1.57	0.56	0.86	0.96	0.62	1-1/16	1-1/8	1.17	1.17	1.06
M16-TSWE	1	1.93	0.75	1.04	1.23	0.88	1-3/8	1-1/2	1.45	1.45	1.38

Male Pipe Weld Elbow

Fractional Tube X Pipe BW



Part No.	Tube OD (T)	PIPE BW	A	B	C	D	E	F (Hex)	G	Hx	Hy	J
M2-MPWE-2	1/8	1/8	0.92	0.34	0.66	0.50	0.09	7/16	7/16	0.66	0.72	0.405
M3-MPWE-2	3/16	1/8	1.01	0.38	0.66	0.50	0.09	1/2	1/2	0.74	0.74	0.405
M4-MPWE-2	1/4	1/8	1.06	0.38	0.70	0.60	0.19	1/2	9/16	0.77	0.74	0.405
M4-MPWE-4	1/4	1/4	1.06	0.56	0.70	0.60	0.19	1/2	9/16	0.77	0.92	0.540
M6-MPWE-4	3/8	1/4	1.20	0.56	0.76	0.66	0.28	5/8	11/16	0.91	1.00	0.540
M8-MPWE-6	1/2	3/8	1.37	0.56	0.76	0.66	0.22	7/8	7/8	0.97	1.13	0.675
M8-MPWE-8	1/2	1/2	1.42	0.56	0.76	0.66	0.41	13/16	7/8	1.02	1.30	0.840
M10-MPWE-8	5/8	1/2	1.43	0.75	0.76	0.66	0.41	7/8	1	1.03	1.31	0.840
M12-MPWE-12	3/4	3/4	1.57	0.75	0.86	0.96	0.62	1-1/16	1-1/8	1.17	1.45	1.050
M16-MPWE-12	1	3/4	1.94	0.75	0.86	0.96	0.62	1-3/8	1-1/2	1.45	1.65	1.050
M16-MPWE-16	1	1	1.94	0.94	0.94	1.09	0.70	1-3/8	1-1/2	1.45	1.84	1.315

مت لوک (کیش)

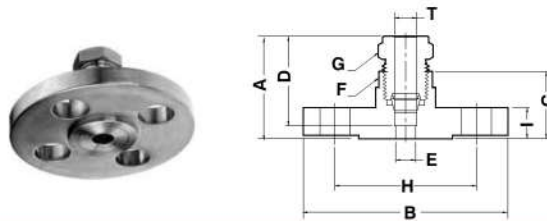
HYDRO PNEUMATICS PVT. LTD.

MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Integral Flange Connector Ansi Flange

Fractional Tube / Metric Tube
150# / 300#



Part No.	Tube OD (T)	A	B	C	D	E	F (Hex)	G	H	I	ANSI
M8-IFC	1/2	1.89	3.5	1.31	1.50	0.41	1	15/16	2.38	0.45	150
M8-IFC-3	1/2	1.89	3.8	1.81	1.50	0.41	1	15/16	2.62	0.57	300
M10M-IFC	10	0.48	90	33.3	33.8	7.9	25	22	60.4	11.4	150
M10M-IFC-3	10	0.48	96	33.3	33.8	7.9	25	22	66.5	14.5	300
M12M-IFC	12	0.48	90	33.3	38.1	9.5	25	24	60.4	11.4	150
M12M-IFC-3	12	0.48	96	33.3	38.1	9.5	25	24	66.5	14.5	300

Front Ferrule Fractional Tube



Part No.	Tube OD (T)
M1-FF	1/16
M2-FF	1/8
M3-FF	3/16
M4-FF	1/4
M5-FF	5/16
M6-FF	3/8
M8-FF	1/2
M10-FF	5/8
M12-FF	3/4
M14-FF	7/8
M16-FF	1

Front Ferrule Metric Tube



Part No.	Tube OD (T)
M2M-FF	2
M3M-FF	3
M4M-FF	4
M6M-FF	6
M8M-FF	8
M10M-FF	10
M12M-FF	12
M14M-FF	14
M15M-FF	15
M16M-FF	16
M18M-FF	18
M20M-FF	20
M22M-FF	22
M25M-FF	25

Back Ferrule Fractional Tube



Part No.	Tube OD (T)
M1-BF	1/16
M2-BF	1/8
M3-BF	3/16
M4-BF	1/4
M5-BF	5/16
M6-BF	3/8
M8-BF	1/2
M10-BF	5/8
M12-BF	3/4
M14-BF	7/8
M16-BF	1

Back Ferrule Metric Tube



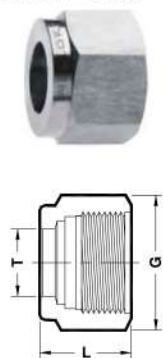
Part No.	Tube OD (T)
M2M-BF	2
M3M-BF	3
M4M-BF	4
M6M-BF	6
M8M-BF	8
M10M-BF	10
M12M-BF	12
M14M-BF	14
M15M-BF	15
M16M-BF	16
M18M-BF	18
M20M-BF	20
M22M-BF	22
M25M-BF	25

مت لوک (کیش)

HYDRO PNEUMATICS PVT. LTD.
MET-LOK (KISH)

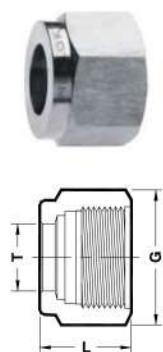
Note :All Dimension for reference only, subject to change

Nut Fractional Tube



Part No.	Tube OD (T)	G (Hex)	L
M1-N	1/16	5/16	0.31
M2-N	1/8	7/16	0.47
M3-N	3/16	1/2	0.47
M4-N	1/4	9/16	0.50
M5-N	5/16	5/8	0.53
M6-N	3/8	11/16	0.56
M8-N	1/2	7/8	0.69
M10-N	5/8	1	0.69
M12-N	3/4	1-1/8	0.69
M14-N	7/8	1-1/4	0.69
M16-N	1	1-1/2	0.81

Nut Metric Tube



Part No.	Tube OD (T)	G (Hex)	L
M2M-N	2	12	11.9
M3M-N	3	12	11.9
M4M-N	4	12	11.9
M6M-N	6	14	12.7
M8M-N	8	16	13.5
M10M-N	10	19	15.1
M12M-N	12	22	17.4
M14M-N	14	25	17.4
M15M-N	15	25	17.4
M16M-N	16	25	17.4
M18M-N	18	30	17.4
M20M-N	20	32	17.4
M22M-N	22	32	17.4
M25M-N	25	38	20.6

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MET-LOK (KISH)

Note :All Dimension for reference only, subject to change

Tube Fittings Installation Instruction

MET-LOK Tube Fittings can be installed in three simple steps as shown below.

STEP 1



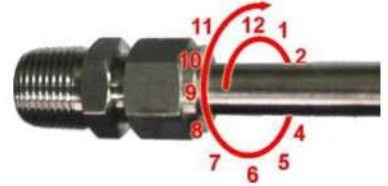
MET-LOK Tube Fittings are supplied in assembled condition and are ready to use. Simply insert the tube into the MET-LOK Tube Fittings. **Make sure the tube rests firmly on the shoulder of the fitting and the nut is finger-tight.**

STEP 2



Before tightening the MET-LOK nut, Scribe the nut and body hex at 9 O'clock position.

STEP 3



Hold the fitting MET-LOK body with a wrench. Start tightening the nut to make a 1.1/4 turn to stop at 12 O'clock position. MET-LOK Gap Gages can now be used to check if there installation has been complete.

Note : Certain low size tubings i.e. 1/16, 1/8, 3/16 inch & 2,3,4 mm needs to be tightened by 3/4 turn from finger-tight. Higher wall thickness, higher hardness and higher Tube diameters are factors leading to higher torque requirement in reassembly.

Preswaging Instruction

Some hard to reach places of installations like cramped locations, sub sea applications, use of ladders, etc., use of MET-LOK preswaging tools is recommended. This tool has to be ordered along with the size of the fitting you are using. Holding this tool on a vice follow the assembly instructions indicated. Now by simply carry the swaged joints to the locations and follow the reassembly instructions.



Reassembly of Tube Fittings

Once the installation is carried out as instructed, the Ferrules in the fittings have gripped the tube sufficiently to withstand the Maximum Working Pressure of the Tubes selected. This joint can now be reused on the same body or can be used on any other body of same tube size without disturbing the performance. Just follow these instructions, Insert the preswaged ferrule tube into the same or new body of same size.

Tighten the nut by hand and then rotate use a wrench until you will feel the same resistance. You could take an additional 1/8 turn if required.

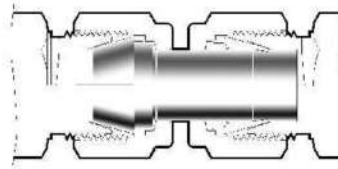
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Port Connector Installation

1. Remove Nuts/ Ferrules from Port 1.
2. Insert the port connector in place of the original ferrules as shown and tighten the nut as per reassembly instructions.
3. Insert the tube end of the Port Connector in Port 2 as shown.
4. Tighten the Port 2 connection as per the installation procedures mentioned.

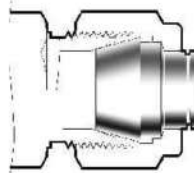


Port 1

Port 2

Cap & Plug Installation

Plugs are used on unused tube ports of Tube Fitting bodies by replacing the Nuts / ferrules with the Plug (with Nut) of same size. Just follow the Reassembly instructions.



Plug

Caps are used too blank tube ends for future use. Simply insert the tube into the cap and follow the Installation procedures mentioned.

Tube Fitting Pressure Rating

MET-LOK Tube Fittings are rated as per the Working Pressure of the Tubing used. Refer the **MET-LOK Tube Data** for further information.

Pipe thread Specification

Thread Type	NPT	BSP	BSPT
Reference specification	ASME B1.20.1, ISO 228, BS 2779, JIS B SAE AS71051	0202	ISO 7, BS 21, JIS B 0203

CAUTION : While Assembling Tapered threads, a thread sealant / PTFE Tape shall always be used (Refer MET-LOK Installation section of this Catalogue).

Safety Precautions

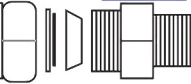
- 1) MET-LOK Tube Fittings are supplied in Assembled condition and ready for use. DO NOT disassemble the Tube Fitting.
- 2) To select the correct tubing, refer to the MET-LOK Tube Data for Maximum Working Pressure Allowances.
- 3) Use of Fully Annealed Tubing is recommended.
- 4) Smooth surface finish of the Tubing is very important, specially in Gas applications.
- 5) Metal tubing material should always be softer than fitting material for example stainless steel tubing should never be used with brass fittings.
- 6) Carefully follow the Assembly Instructions overleaf.
- 7) While assembling always use separate wrenches for holding the body and tightening the Nut. Do not turn the Body, turn the Nut.
- 8) Use a proper thread sealant / PTFE tape while assembling Taper thread.
- 9) While installing fitting near Tube bends, sufficient straight length of Tubing should be kept to allow the Tube to be bottomed in fitting
- 10) While tightening or loosening a fitting always be sure that the system is not pressurized.
- 11) Do not loosen the nut or Pipe threads to Bleed System Lines.

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MET-LOK (KISH)

MET-LOK

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