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Emyte Australia Pty.Ltd.

EMT

CATALOGUE



# COMPANY PROFILE

EMYTE AUSTRALIA PTY LTD is a professional brand for fluid connect components, it is situated in Melbourne, Australia, and its manufacturing plant is based in Shanghai, China.

Emyte designs, manufactures and sells different standards & materials products, including compression fitting, welding fittings, adapters, hose fittings, clamps, quick release coupling, ball valve, check valve, hoses and other related products.

With excellent standards and continuous development of innovative new products. Emyte has met the diverse needs of their customers, and won their solid trust over the years. Emyte products are widely used in engineering, oil, marine, steel, power, paper manufacturing, pulp, mining and others industries.

As a global leading brand for fluid connect components, we would welcome the opportunity to supply and provide Emyte's best quality products and service to your company.

Emyte Australia, your ideal partner for fluid components.

» EMYTE SHANGHAI



# Advanced Technology Excellent Quality



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EBMMT

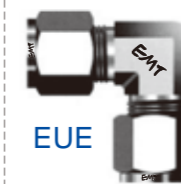
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EBFMT

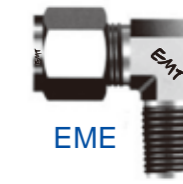
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EFE

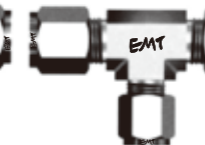
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### Tees Intermediate



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### Tees Intermediate



EFBT

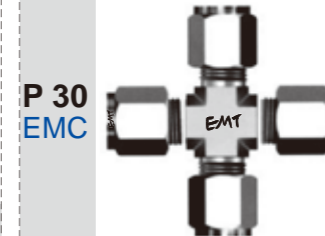
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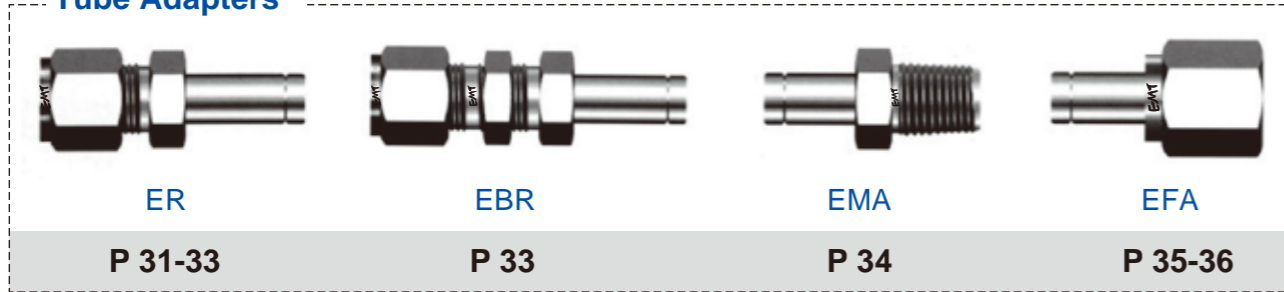
### Cross



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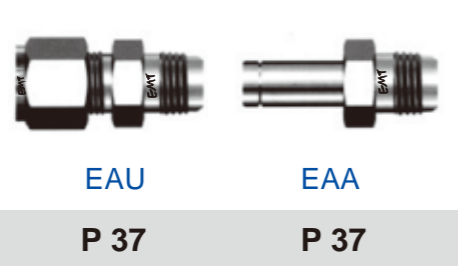
**Tube Adapters**



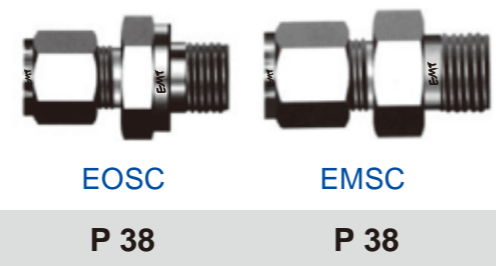
**Port Connectors**



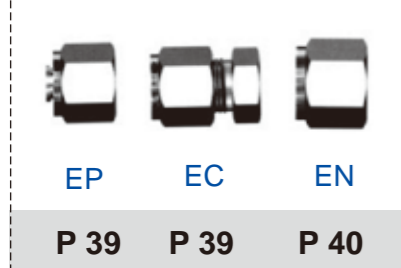
**37 Flared**



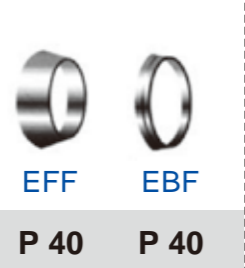
**Male Connectors**



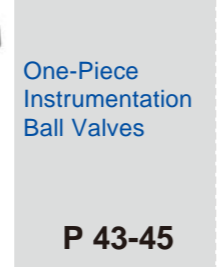
**Nuts**



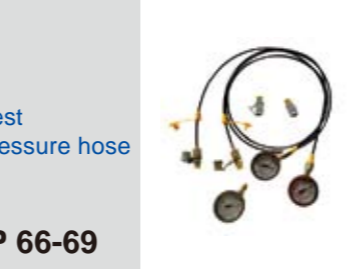
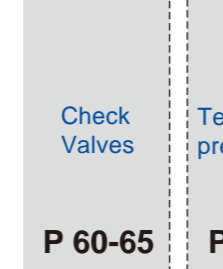
**Ferrules**



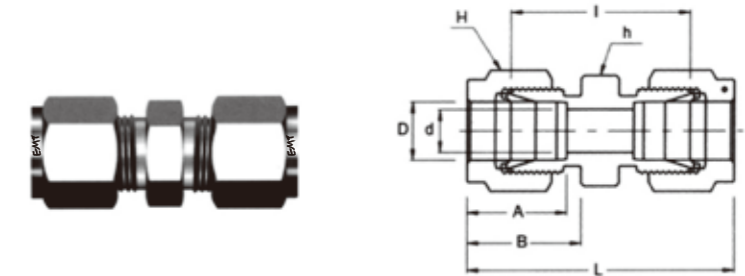
**Stainless steel Tubing**



**Instrument Manifolds**



**EMT Union**



**Connects Fractional Tubes**

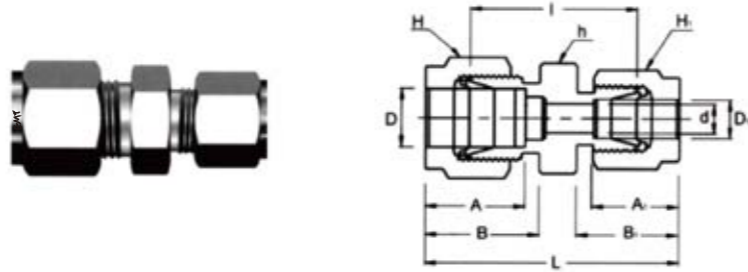
Part No.	Tube O.D (in)	d Min	Width Across Flat		A	B	I	L
			h(in)	H(in)				
EMT-2	1/8	2.28	7/16	7/16	12.70	15.24	22.35	35.56
EMT-4	1/4	4.82	1/2	9/16	15.24	17.78	26.16	40.89
EMT-5	5/16	6.35	9/16	5/8	16.25	18.54	28.19	42.92
EMT-6	3/8	7.11	5/8	11/16	16.76	19.30	30.22	44.95
EMT-8	1/2	10.41	13/16	7/8	22.86	21.84	30.98	51.30
EMT-10	5/8	12.70	15/16	1	24.38	21.84	31.75	52.07
EMT-12	3/4	15.74	1-1/16	1-1/8	24.38	21.84	33.27	53.59
EMT-14	7/8	18.28	1-3/16	1-1/4	25.90	21.84	34.79	55.11
EMT-16	1	22.35	1-3/8	1-1/2	31.24	26.41	40.38	64.77

**Connects Metric Tubes**

Part No.	Tube O.D (mm)	d Min	Width Across Flat		A	B	I	L
			h(mm)	H(mm)				
EMT-4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4
EMT-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
EMT-8M	8	6.4	15.9	16	16.2	18.5	22.4	29.9
EMT-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
EMT-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
EMT-14M	14	12	22.0	24	23.2	22.0	31.0	49.2
EMT-15M	15	11.9	23.8	25	24.4	22.0	27.9	38.8
EMT-16M	16	12.7	23.8	25	24.4	22.0	27.9	38.0
EMT-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
EMT-20M	20	15.9	34.9	32	26.0	22.0	34.5	44.6
EMT-22M	22	18.3	34.9	32	26.0	22.0	34.5	44.6
EMT-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

**ERMT Reducing Union**



**Connects Fractional Tubes**

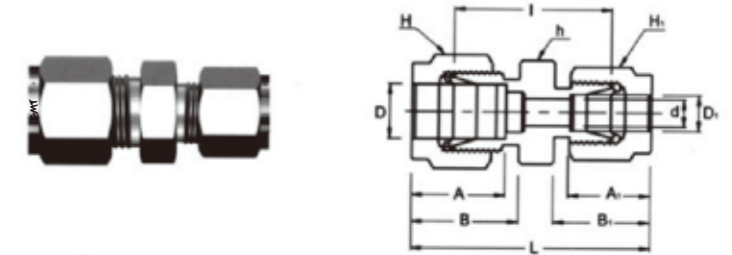
Part No.	Tube O.D		d Min	Width Across Flat			A	A <sub>1</sub>	B	B <sub>1</sub>	I	L
	D	D <sub>1</sub>		h	H	H <sub>1</sub>						
ERMT 4-2	1/4	1/8	2.28	1/2	9/16	7/16	15.24	12.70	17.78	15.24	24.63	38.60
ERMT 4-3	1/4	3/16	3.04	1/2	9/16	1/2	15.24	13.71	17.78	16.00	25.40	39.67
ERMT 5-2	5/16	1/8	2.28	9/16	5/8	7/16	16.25	12.70	18.54	15.24	25.90	39.87
ERMT 5-4	5/16	1/4	4.82	9/16	5/8	9/16	16.25	15.24	18.54	17.78	27.43	42.16
ERMT 6-2	3/8	1/8	2.28	5/8	11/16	7/16	16.76	12.70	19.30	15.24	26.92	40.89
ERMT 6-4	3/8	1/4	4.82	5/8	11/16	9/16	16.76	15.24	19.30	17.78	28.44	43.18
ERMT 6-5	3/8	5/16	6.35	5/8	11/16	5/8	16.76	16.25	19.30	18.54	29.46	44.19
ERMT 8-2	1/2	1/8	2.28	13/16	7/8	7/16	22.86	12.70	21.84	15.24	28.44	45.21
ERMT 8-4	1/2	1/4	4.82	13/16	7/8	9/16	22.86	15.24	21.84	17.78	29.46	46.99
ERMT 8-6	1/2	3/8	7.11	13/16	7/8	11/16	22.86	16.76	21.84	19.30	30.98	48.51
ERMT 10-6	5/8	3/8	7.11	15/16	1	11/16	24.38	16.76	21.84	19.30	31.75	49.27
ERMT 10-8	5/8	1/2	10.41	15/16	1	7/8	24.38	22.86	21.84	21.84	31.75	52.07
ERMT 12-4	3/4	1/4	4.82	1-1/16	1-1/8	9/16	24.38	15.24	21.84	17.78	31.75	49.27
ERMT 12-6	3/4	3/8	7.11	1-1/16	1-1/8	11/16	24.38	16.76	21.84	19.30	33.27	50.80
ERMT 12-8	3/4	1/2	10.41	1-1/16	1-1/8	7/8	24.38	22.86	21.84	21.84	33.27	53.59
ERMT 12-10	3/4	5/8	12.70	1-1/16	1-1/8	1	24.38	24.38	21.84	21.84	33.27	53.59
ERMT 16-8	1	1/2	10.41	1-3/8	1-1/2	7/8	31.24	22.86	26.41	21.84	40.89	63.24
ERMT 16-12	1	3/4	15.74	1-3/8	1-1/2	1-1/8	31.24	24.38	26.41	21.84	40.38	62.73

**Connects Metric Tubes**

Part No.	Tube O.D		d Min	Width Across Flat			A	A <sub>1</sub>	B	B <sub>1</sub>	I	L
	D	D <sub>1</sub>		h	H	H <sub>1</sub>						
ERMT 6M-3M	6	3	2.4	14	14	12	15.3	12.9	17.7	15.3	24.6	38.6
ERMT 6M-4M	6	4	2.4	14	14	12	15.3	13.7	17.7	16.1	25.4	39.4
ERMT 8M-6M	8	6	4.8	15	16	14	16.2	15.3	18.6	17.7	27.4	42.3
ERMT 10M-6M	10	6	4.8	18	19	14	17.2	15.3	19.5	17.7	29.5	44.5
ERMT 10M-8M	10	8	6.4	18	19	16	17.2	16.2	19.5	18.6	30.0	45.1
ERMT 12M-6M	12	6	4.8	22	22	14	22.8	15.3	22.0	17.7	29.5	47.0
ERMT 12M-8M	12	8	6.4	22	22	16	22.8	16.2	22.0	18.6	30.2	47.8
ERMT 12M-10M	12	10	7.9	22	22	19	22.8	17.2	22.0	19.5	31.0	48.7
ERMT 14M-10M	14	10	8.0	22	24	19	23.2	21.2	26.2	24.2	31.0	49.2
ERMT 14M-12M	14	12	10.0	22	24	22	23.2	21.2	26.2	24.2	31.0	49.2
ERMT 16M-12M	16	12	9.5	24	25	22	24.4	22.8	22.0	22.0	31.8	52.0
ERMT 25M-18M	25	18	15.1	35	38	30	31.3	24.4	26.5	22.0	38.6	61.0
ERMT 25M-20M	25	20	15.9	35	38	32	31.3	26.0	26.5	22.0	39.9	62.3

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicateng brass material.

**ERMT Reducing Union**



**Connects Metric Tubes To Fractional Tubes**

Part No.	Tube O.D		d Min	Width Across Flat			A	A <sub>1</sub>	B	B <sub>1</sub>	I	L
	D	D <sub>1</sub>		h	H	H <sub>1</sub>						
ERMT 4M-2	4	1/8	2.4	12	12	11.1	13.7	12.8	16.1	15.2	23.4	36.5
ERMT 4M-4	4	1/4	2.4	14	12	14.3	13.7	15.3	16.1	17.7	25.4	39.4
ERMT 6M-2	6	1/8	2.4	14	14	11.1	15.3	12.8	17.7	15.2	24.6	38.5
ERMT 6M-4	6	1/4	4.8	14	14	14.3	15.3	15.3	17.7	17.7	26.2	41.0
ERMT 6M-5	6	5/16	4.8	14	14	15.9	15.3	16.2	17.7	18.6	27.4	42.3
ERMT 8M-4	8	1/4	4.8	15	16	14.3	16.2	15.3	18.6	17.7	27.4	42.3
ERMT 10M-2	10	1/8	2.4	18	19	11.1	17.2	12.8	19.5	15.2	27.7	41.8
ERMT 10M-4	10	1/4	4.8	18	19	14.3	17.2	15.3	19.5	17.7	29.5	44.5
ERMT 10M-5	10	5/16	6.4	18	19	15.9	17.2	16.2	19.5	18.6	30.0	45.1
ERMT 10M-6	10	3/8	7.1	18	19	17.5	17.2	16.9	19.5	19.2	31.0	45.9
ERMT 12M-5	12	5/16	6.4	22	22	15.9	22.8	16.2	22.0	18.6	30.2	47.8
ERMT 12M-6	12	3/8	7.1	22	22	17.5	22.8	16.9	22.0	19.2	31.0	48.4
ERMT 12M-8	12	1/2	9.5	22	22	22.2	22.8	22.8	22.0	22.0	31.0	51.2
ERMT 15M-8	15	1/2	10.3	24	25	22.2	24.4	22.8	22.0	22.0	31.8	52.0
ERMT 16M-10	16	5/8	12.7	24	25	25.4	24.4	24.4	22.0	22.0	31.8	52.0
ERMT 18M-12	18	3/4	15.1	27	30	28.6	24.4	24.4	22.0	22.0	33.3	53.5
ERMT 20M-12	20	3/4	15.9	30	32	28.6	26.0	24.4	22.0	22.0	34.8	54.9
ERMT 20M-16	20	1	15.9	35	32	38.1	26.0	31.2	22.0	26.4	40.4	62.8
ERMT 25M-16	25	1	21.8	35	38	38.1	31.3	31.3	26.5	26.5	40.4	65.0

**EBHRMT Bulkhead Reducing Union**

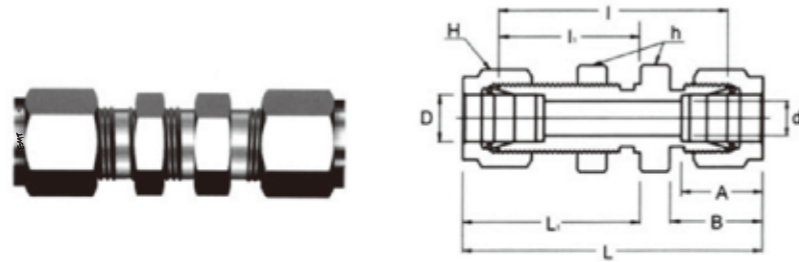


**Connects Fractional Tubes**

Part No.	Tube O.D		d Min	Width Across Flat			A	A <sub>1</sub>	I	I <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	Panel Hole Drill Size	Panel Max Thickness
	D	D <sub>1</sub>		h	H	H <sub>1</sub>									
EBHRMT 4-2	1/4	1/8	2.28	5/8	9/16	7/16	15.24	12.7	41.14	26.16	55.11	33.52	15.24	11.50	10.16
EBHRMT 6-4	3/8	1/4	4.82	3/4	11/16	9/16	16.76	15.24	45.97	29.46	60.70	36.57	17.78	14.68	11.17
EBHRMT 8-4	1/2	1/4	4.82	15/16	7/8	9/16	22.86	15.24	49.27	31.75	66.80	41.91	17.78	19.44	12.70

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicateng brass material.

**EBHRMT Bulkhead Union**



**Connects Fractional Tubes**

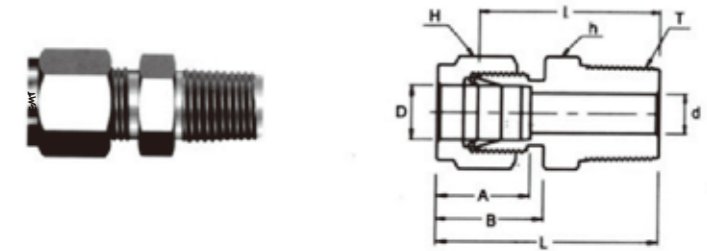
Part No.	Tube O.D D(mm)	d Min	Width Across Flat		A	B	I	I1	L	L1	Panel Hole Drill Size	Panel Max Thickness
			h	H								
EBHRMT-2	1/8	2.28	1/2	7/16	12.70	15.24	38.10	24.63	51.30	31.24	8.33	12.70
EBHRMT-3	3/16	3.04	9/16	1/2	13.71	16.00	40.38	25.40	53.59	32.00	9.92	12.70
EBHRMT-4	1/4	4.82	5/8	9/16	15.24	17.78	42.92	26.16	57.65	33.52	11.50	10.16
EBHRMT-5	5/16	6.35	11/16	5/8	16.25	18.54	45.97	28.44	60.70	35.81	13.09	11.17
EBHRMT-6	3/8	7.11	3/4	11/16	16.76	19.30	47.49	29.46	62.23	36.83	14.68	11.17
EBHRMT-8	1/2	10.41	15/16	7/8	22.86	21.84	50.80	31.75	71.12	41.91	19.44	12.70
EBHRMT-10	5/8	12.70	1-1/16	1	24.38	21.84	52.32	32.51	72.64	42.67	22.62	12.70
EBHRMT-12	3/4	15.74	1-3/16	1-1/8	24.38	21.84	58.67	37.33	78.99	47.49	25.79	16.76
EBHRMT-14	7/8	18.28	1-5/8	1-1/4	25.90	21.84	64.26	42.92	84.58	53.08	28.98	19.05
EBHRMT-16	1	22.35	1-5/8	1-1/2	31.24	26.41	71.37	45.21	95.75	57.40	33.73	19.05

**Connects Metric Tubes**

Part No.	Tube O.D D(mm)	d Min	Width Across Flat			A	B	I	I1	L	L1	Panel Hole Drill Size	Panel Max Thickness
			h	H	H1								
EBHRMT-3M	3	2.4	14	12.7	12	12.9	15.3	38.1	24.6	51.3	31.2	8.3	12.7
EBHRMT-4M	4	2.4	14	14.3	12	13.7	16.1	40.4	25.4	53.6	32.0	9.9	12.7
EBHRMT-6M	6	4.8	16	15.9	14	15.3	17.7	42.9	26.2	57.7	33.6	11.5	10.2
EBHRMT-8M	8	6.4	18	17.5	16	16.2	18.6	46.0	28.6	61.0	36.1	13.1	11.2
EBHRMT-10M	10	7.9	22	22.0	19	17.2	19.5	48.5	29.4	63.7	37.0	16.2	11.2
EBHRMT-12M	12	9.5	24	23.8	22	22.8	22.0	50.8	31.8	71.0	41.9	19.5	12.7
EBHRMT-14M	14	12.0	27	24.0	24	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
EBHRMT-15M	15	11.9	27	27.0	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
EBHRMT-16M	16	12.7	27	27.0	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
EBHRMT-18M	18	15.1	30	30.0	30	24.4	22.0	58.7	37.3	78.9	47.4	26.0	16.8
EBHRMT-20M	20	15.9	35	35.0	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	17.0
EBHRMT-22M	22	18.3	35	35.0	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	19.1
EBHRMT-25M	25	21.8	41.3	41.3	38	31.3	26.5	71.4	45.2	95.9	57.5	33.7	19.1

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

**EMMT Male Connector**

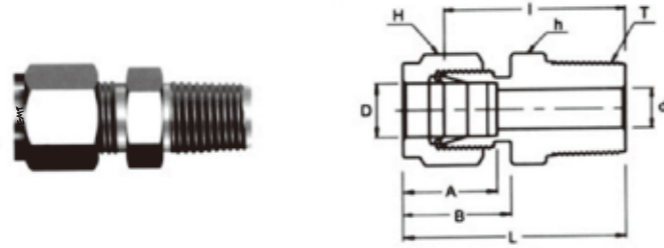


**Connects Fractional Tubes To Female NPT Thread**

Part No.	Tube O.D D(mm)	T (NPT)	d Min	Width Across Flat		A	B	I	L
				h	H				
EMMT 2-2N	1/8	1/8	2.28	7/16	7/16	12.70	15.24	23.87	30.48
EMMT 2-4N	1/8	1/4	2.28	9/16	7/16	12.70	15.24	28.95	35.56
EMMT 2-6N	1/8	3/8	2.28	11/16	7/16	12.70	15.24	29.21	35.81
EMMT 2-8N	1/8	1/2	2.28	7/8	7/16	12.70	15.24	35.56	42.16
EMMT 3-2N	3/16	1/8	3.04	7/16	1/2	13.71	16.00	24.63	31.24
EMMT 3-4N	3/16	1/4	3.04	9/16	1/2	13.71	16.00	29.71	36.32
EMMT4-2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	25.40	32.76
EMMT 4-4N	1/4	1/4	4.82	9/16	9/16	15.24	17.78	30.48	37.84
EMMT 4-6N	1/4	3/8	4.82	11/16	9/16	15.24	17.78	30.98	38.35
EMMT 4-8N	1/4	1/2	4.82	7/8	9/16	15.24	17.78	37.33	44.70
EMMT 4-12N	1/4	3/4	4.82	1-1/16	9/16	15.24	17.78	38.86	46.22
EMMT 5-2N	5/16	1/8	4.82	9/16	5/8	16.25	18.54	26.67	34.03
EMMT 5-4N	5/16	1/4	6.35	9/16	5/8	16.25	18.54	31.24	38.60
EMMT 5-6N	5/16	3/8	6.35	11/16	5/8	16.25	18.54	31.75	39.11
EMMT6-2N	3/8	1/8	4.82	5/8	11/16	16.76	19.30	27.94	35.30
EMMT 6-4N	3/8	1/4	7.11	5/8	11/16	16.76	19.30	32.51	39.87
EMMT 6-6N	3/8	3/8	7.11	11/16	11/16	16.76	19.30	32.51	39.87
EMMT 6-8N	3/8	1/2	7.11	7/8	11/16	16.76	19.30	38.86	46.22
EMMT 6-12N	3/8	3/4	7.11	1-1/16	11/16	16.76	19.30	40.38	47.75
EMMT 8-2N	1/2	1/8	4.82	13/16	7/8	22.86	21.84	28.70	38.86
EMMT 8-4N	1/2	1/4	7.11	13/16	7/8	22.86	21.84	33.27	43.43
EMMT 8-6N	1/2	3/8	9.65	13/16	7/8	22.86	21.84	33.27	43.43
EMMT 8-8N	1/2	1/2	10.41	7/8	7/8	22.86	21.84	38.86	49.02
EMMT 8-12N	1/2	3/4	10.41	1-1/16	7/8	22.86	21.84	40.38	50.54
EMMT 8-16N	1/2	1	10.41	1-3/8	7/8	22.86	21.84	46.99	57.15
EMMT 10-6N	5/8	3/8	9.65	15/16	1	24.38	21.84	34.03	44.19
EMMT 10-8N	5/8	1/2	11.93	15/16	1	24.38	21.84	38.86	49.02
EMMT 10-12N	5/8	3/4	12.70	1-1/16	1	24.38	21.84	40.38	50.54
EMMT 12-8N	3/4	1/2	11.93	1-1/16	1-1/8	24.38	21.84	40.38	50.54
EMMT 12-12N	3/4	3/4	15.74	1-1/16	1-1/8	24.38	21.84	40.38	50.54
EMMT 14-12N	3/4	1	15.74	1-3/8	1-1/8	24.38	21.84	46.99	57.15
EMMT 12-16N	7/8	3/4	15.74	1-3/16	1-1/4	25.90	21.84	40.38	50.54
EMMT 14-16N	7/8	1	18.28	1-3/8	1-1/4	25.90	21.84	46.99	57.15
EMMT 16-8N	1	1/2	11.93	1-3/8	1-1/2	31.24	26.41	45.21	57.40
EMMT 16-12N	1	3/4	15.74	1-3/8	1-1/2	31.24	26.41	45.21	57.40
EMMT 16-16N	1	1	22.35	1-3/8	1-1/2	31.24	26.41	50.03	62.23

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

**EMMT Male Connector**



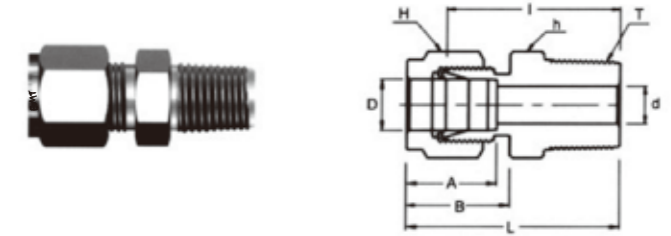
**Connects Fractional Tube To Female ISO Tapered Thread**

Part No.	Tube O.D D(mm)	T R(PT)	d Min	Width Across Flat		A	B	I	L
				h	H				
EMMT 2-2R	1/8	1/8	2.28	7/16	7/16	12.70	15.24	23.87	30.48
EMMT 2-4R	1/8	1/4	2.28	9/16	7/16	12.70	15.24	28.95	35.56
EMMT 4-2R	1/4	1/8	4.82	1/2	9/16	15.24	17.78	25.40	32.76
EMMT 4-4R	1/4	1/4	4.82	9/16	9/16	15.24	17.78	30.48	37.84
EMMT 4-6R	1/4	3/8	4.82	11/16	9/16	15.24	17.78	30.98	38.35
EMMT 4-8R	1/4	1/2	4.82	7/8	9/16	15.24	17.78	37.33	44.70
EMMT 5-2R	5/16	1/8	4.82	9/16	5/8	16.25	18.54	26.67	34.03
EMMT 5-4R	5/16	1/4	6.35	9/16	5/8	16.25	18.54	31.24	38.60
EMMT 6-2R	3/8	1/8	4.82	5/8	11/16	16.76	19.30	27.94	35.30
EMMT 6-4R	3/8	1/4	7.11	5/8	11/16	16.76	19.30	32.51	39.87
EMMT 6-6R	3/8	3/8	7.11	11/16	11/16	16.76	19.30	32.51	39.87
EMMT 6-8R	3/8	1/2	7.11	7/8	11/16	16.76	19.3	38.86	46.22
EMMT 8-4R	1/2	1/4	7.11	13/16	7/8	22.86	21.84	33.27	43.43
EMMT 8-6R	1/2	3/8	9.65	13/16	7/8	22.86	21.84	33.27	43.43
EMMT 8-8R	1/2	1/2	10.41	7/8	7/8	22.86	21.84	38.86	49.02
EMMT 8-12R	1/2	3/4	10.41	1-1/16	7/8	22.86	21.84	40.38	50.04
EMMT 12-12R	3/4	3/4	15.74	1-1/16	1-1/8	24.38	21.84	40.38	50.04
EMMT 16-16R	1	1	22.35	1-3/8	1-1/8	31.24	26.41	50.03	62.23



Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

**EMMT Male Connector**

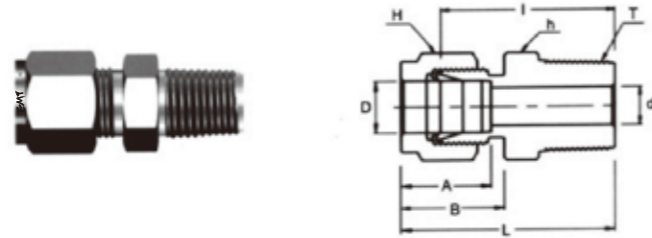


**Connects Metric Tube To Female NPT Thread**

Part No.	Tube O.D D(mm)	T (NPT)	d Min	Width Across Flat		A	B	I	L
				h	H				
EMMT 3M - 2N	3	1/8	2.4	12	12	12.9	15.3	23.9	30.5
EMMT 3M - 4N	3	1/4	2.4	14	12	12.9	15.3	29.0	35.6
EMMT 4M - 2N	4	1/8	2.4	12	12	13.7	16.1	24.6	31.2
EMMT 4M - 4N	4	1/4	2.4	14	12	13.7	17.7	29.7	36.3
EMMT 6M - 2N	6	1/8	4.8	14	14	15.3	17.7	25.4	32.8
EMMT 6M - 4N	6	1/4	4.8	14	14	15.3	17.7	30.5	37.9
EMMT 6M - 6N	6	3/8	4.8	18	14	15.3	17.7	31.0	38.4
EMMT 6M - 8N	6	1/2	4.8	22	14	15.3	18.6	37.3	44.7
EMMT 8M - 2N	8	1/8	4.8	15	16	16.2	18.6	26.7	34.2
EMMT 8M - 4N	8	1/4	6.4	15	16	16.2	18.6	31.2	38.7
EMMT 8M - 6N	8	3/8	6.4	18	16	16.2	18.6	31.8	39.3
EMMT 8M - 8N	8	1/2	6.4	22	16	16.2	19.5	38.1	45.6
EMMT 10M - 2N	10	1/8	4.8	18	19	17.2	19.5	28.7	36.3
EMMT 10M - 4N	10	1/4	7.9	18	19	17.2	19.5	33.3	40.9
EMMT 10M - 6N	10	3/8	7.9	18	19	17.2	19.5	33.3	40.9
EMMT 10M - 8N	10	1/2	7.9	22	19	17.2	22.0	38.9	46.5
EMMT 12M - 2N	12	1/8	4.8	22	22	22.8	22.0	28.7	38.8
EMMT 12M - 4N	12	1/4	7.1	22	22	22.8	22.0	33.3	43.4
EMMT 12M - 6N	12	3/8	9.5	22	22	22.8	22.0	33.3	43.4
EMMT 12M - 8N	12	1/2	9.5	22	22	22.8	22.0	38.9	49.0
EMMT 12M - 12N	12	3/4	9.5	27	22	22.8	22.0	40.4	50.5
EMMT 14M - 4N	14	1/4	7.1	24	25	24.4	22.0	34.0	44.1
EMMT 14M - 6N	14	3/8	9.5	24	25	24.4	22.0	34.0	44.1
EMMT 14M - 8N	14	1/2	11.9	24	25	24.4	22.0	38.9	49.0
EMMT 16M - 6N	16	3/8	12.7	24	25	24.4	22.0	34.0	44.1
EMMT 16M - 8N	16	1/2	11.9	24	25	24.4	22.0	38.9	49.0
EMMT 16M - 12N	16	3/4	12.7	27	25	24.4	22.0	40.4	50.5
EMMT 18M - 8N	18	1/2	11.9	27	30	24.4	22.0	40.4	50.5
EMMT 18M - 12N	18	3/4	15.1	27	30	24.4	22.0	40.4	50.5
EMMT 20M - 8N	20	1/2	11.9	30	32	26.0	22.0	42.2	52.3
EMMT 20M - 12N	20	3/4	15.9	30	32	26.0	22.0	42.2	52.3
EMMT 22M - 12N	22	3/4	15.9	30	32	26.0	22.0	42.2	52.3
EMMT 22M - 16N	22	1	18.3	35	32	26.0	22.0	47.0	57.1
EMMT 25M - 12N	25	3/4	15.9	35	38	31.3	26.5	45.2	57.5
EMMT 25M - 16N	25	1	21.8	35	38	31.3	26.5	50.0	62.3

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

## EMMT Male Connector

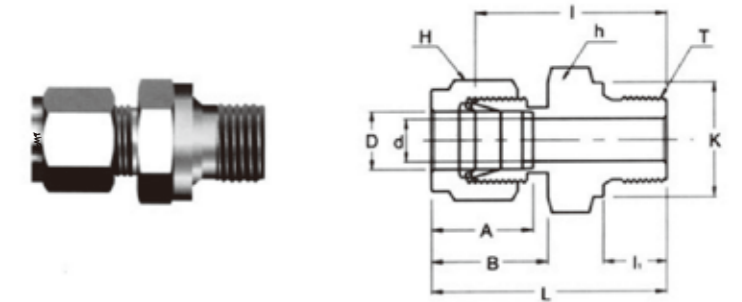


Connects Metric Tube To Female ISO Thread

Part No.	Tube O.D D(mm)	T (NPT)	d Min	Width Across Flat		A	B	I	L
				h	H				
EMMT 3M - 2R	3	1/8	2.4	12	12	12.9	15.3	23.9	30.5
EMMT 3M - 4R	3	1/4	2.4	14	12	12.9	15.3	29.0	35.6
EMMT 4M - 2R	4	1/8	2.4	12	12	13.7	16.1	24.6	31.2
EMMT 4M - 4R	4	1/4	2.4	14	12	13.7	17.7	29.7	36.3
EMMT 6M - 2R	6	1/8	4.8	14	14	15.3	17.7	25.4	32.8
EMMT 6M - 4R	6	1/4	4.8	14	14	15.3	17.7	30.5	37.9
EMMT 6M - 6R	6	3/8	4.8	18	14	15.3	17.7	31.0	38.4
EMMT 6M - 8R	6	1/2	4.8	22	14	15.3	18.6	37.3	44.7
EMMT 8M - 2R	8	1/8	4.8	15	16	16.2	18.6	26.7	34.2
EMMT 8M - 4R	8	1/4	6.4	15	16	16.2	18.6	31.2	38.7
EMMT 8M - 6R	8	3/8	6.4	18	16	16.2	18.6	31.8	39.3
EMMT 8M - 8R	8	1/2	6.4	22	16	16.2	19.5	38.1	45.6
EMMT 10M - 2R	10	1/8	4.8	18	19	17.2	19.5	28.7	36.3
EMMT 10M - 4R	10	1/4	7.9	18	19	17.2	19.5	33.3	40.9
EMMT 10M - 6R	10	3/8	7.9	18	19	17.2	19.5	33.3	40.9
EMMT 10M - 8R	10	1/2	7.9	22	19	17.2	22.0	38.9	46.5
EMMT 12M - 4R	12	1/4	7.1	22	22	22.8	22.0	33.3	43.4
EMMT 12M - 6R	12	3/8	9.5	22	22	22.8	22.0	33.3	43.4
EMMT 12M - 8R	12	1/2	9.5	22	22	22.8	22.0	38.9	49.0
EMMT 12M - 12R	12	3/4	9.5	27	22	22.8	22.0	40.4	50.5
EMMT 15M - 8R	15	1/2	11.9	24	25	24.4	22.0	38.9	49.0
EMMT 16M - 4R	16	1/4	7.1	24	25	24.4	22.0	34.0	44.1
EMMT 16M - 6R	16	3/8	9.5	24	25	24.4	22.0	34.0	44.1
EMMT 16M - 8R	16	1/2	11.9	24	25	24.4	22.0	38.9	49.0
EMMT 16M - 12R	16	3/4	12.7	27	25	24.4	22.0	40.4	50.5
EMMT 18M - 8R	18	1/2	11.9	27	30	24.4	22.0	40.4	50.5
EMMT 18M - 12R	18	3/4	15.1	27	30	24.4	22.0	40.4	50.5
EMMT 20M - 8R	20	1/2	11.9	30	32	26.0	22.0	42.2	52.3
EMMT 20M - 12R	20	3/4	15.9	30	32	26.0	22.0	42.2	52.3
EMMT 22M - 12R	22	3/4	15.9	30	32	26.0	22.0	42.2	52.3
EMMT 22M - 16R	22	1	18.3	35	32	26.0	22.0	47.0	57.1
EMMT 25M - 12R	25	3/4	15.9	35	38	31.3	26.5	45.2	57.5
EMMT 25M - 16R	25	1	21.8	35	38	31.3	26.5	50.0	62.3

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

## EGMMT Male Connector For Bonded Washer Seal



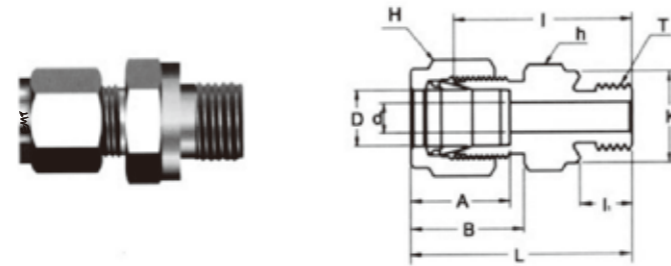
Connects Metric Tubes To Female ISO Parallel Thread

Part No.	Tube O.D D(mm)	T (G)	d Min	Width Across Flat		A	B	I	I1	L	K
				h	H						
EGMMT 3M - 2G	3	1/8	2.4	14	12	12.9	15.3	23.4	7.1	30.0	13.8
EGMMT 3M - 4G	3	1/4	2.4	19	12	12.9	15.3	28.7	11.2	35.3	18.0
EGMMT 4M - 2G	4	1/8	2.4	14	12	13.7	16.1	24.1	7.1	30.7	13.8
EGMMT 6M - 2G	6	1/8	4.0	14	14	15.3	17.7	24.9	7.1	32.3	13.8
EGMMT 6M - 4G	6	1/4	4.8	19	14	15.3	17.7	30.2	11.2	37.6	18.0
EGMMT 6M - 6G	6	3/8	4.8	22	14	15.3	17.7	31.5	11.2	38.9	21.8
EGMMT 6M - 8G	6	1/2	4.8	27	14	15.3	17.7	37.3	14.2	44.7	26.0
EGMMT 8M - 2G	8	1/8	4.0	15	16	16.2	18.6	25.7	7.1	33.2	13.8
EGMMT 8M - 4G	8	1/4	6.4	19	16	16.2	18.6	31.0	11.2	38.5	18.0
EGMMT 8M - 6G	8	3/8	6.4	22	16	16.2	18.6	32.3	11.2	39.8	21.8
EGMMT 8M - 8G	8	1/2	6.4	27	16	16.2	18.6	38.1	14.2	45.6	26.0
EGMMT 10M - 4G	10	1/4	5.9	19	19	17.2	19.5	31.8	11.2	39.4	18.0
EGMMT 10M - 6G	10	3/8	7.9	22	19	17.2	19.5	33.0	11.2	40.6	21.8
EGMMT 10M - 8G	10	1/2	7.9	27	19	17.2	19.5	38.9	14.2	46.5	26.0
EGMMT 12M - 4G	12	1/4	5.9	22	22	22.8	22.0	32.5	11.2	42.6	18.0
EGMMT 12M - 6G	12	3/8	7.9	22	22	22.8	22.0	33.0	11.2	43.1	21.8
EGMMT 12M - 8G	12	1/2	9.5	27	22	22.8	22.0	38.9	14.2	49.0	26.0
EGMMT 12M - 12G	12	3/4	9.5	32	22	22.8	22.0	42.7	15.7	52.8	32.0
EGMMT 16M - 6G	16	3/8	7.9	24	25	24.4	22.0	33.8	11.2	43.9	21.8
EGMMT 16M - 8G	16	1/2	11.9	27	25	24.4	22.0	38.9	14.2	49.0	26.0
EGMMT 18M - 8G	18	1/2	11.9	27	30	24.4	22.0	38.9	14.2	49.0	26.0
EGMMT 18M - 12G	18	3/4	15.1	35	30	24.4	22.0	42.7	15.7	52.8	32.0
EGMMT 20M - 8G	20	1/2	11.9	30	32	26.0	22.0	40.4	14.2	50.5	26.0
EGMMT 20M - 12G	20	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
EGMMT 22M - 12G	22	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
EGMMT 22M - 16G	22	1	18.3	41	32	26.0	22.0	45.2	18.3	55.3	39.0
EGMMT 25M - 12G	25	3/4	15.9	35	38	31.3	26.5	45.2	15.7	57.5	32.0
EGMMT 25M - 16G	25	1	19.8	41	38	31.3	26.5	47.8	18.3	60.1	39.0

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.



### EOMMT Male Connector For Metal Gasket Seal

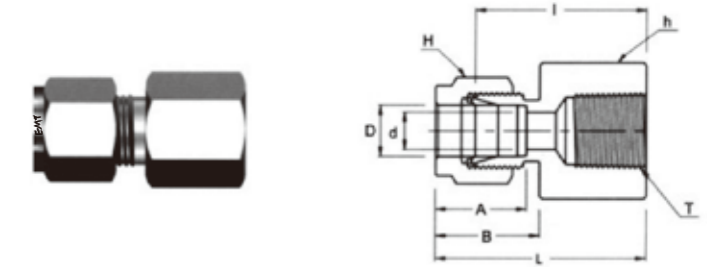


Connects Metric Tube To Female ISO Paralel Thread

Part No.	Tube O.D D(mm)	T (G)	d Min	Width Across Flat		A	B	I	I1	L	K
				h	H						
EOMMT 3M - 2G	3	1/8	2.4	14	12	12.9	15.3	23.4	7.1	30.0	13.8
EOMMT 3M - 4G	3	1/4	2.4	19	12	12.9	15.3	28.7	11.2	35.3	18.0
EOMMT 4M - 2G	4	1/8	2.4	14	12	13.7	16.1	24.1	7.1	30.7	13.8
EOMMT 6M - 2G	6	1/8	4.0	14	14	15.3	17.7	24.9	7.1	32.3	13.8
EOMMT 6M - 4G	6	1/4	4.8	19	14	15.3	17.7	30.2	11.2	37.6	18.0
EOMMT 6M - 6G	6	3/8	4.8	22	14	15.3	17.7	31.5	11.2	38.9	21.8
EOMMT 6M - 8G	6	1/2	4.8	27	14	15.3	17.7	37.3	14.2	44.7	26.0
EOMMT 8M - 2G	8	1/8	4.0	15	16	16.2	18.6	25.7	7.1	33.2	13.8
EOMMT 8M - 4G	8	1/4	6.4	19	16	16.2	18.6	31.0	11.2	38.5	18.0
EOMMT 8M - 6G	8	3/8	6.4	22	16	16.2	18.6	32.3	11.2	39.8	21.8
EOMMT 8M - 8G	8	1/2	6.4	27	16	16.2	18.6	38.1	14.2	45.6	26.0
EOMMT10M - 4G	10	1/4	5.9	19	19	17.2	19.5	31.8	11.2	39.4	18.0
EOMMT 10M - 6G	10	3/8	7.9	22	19	17.2	19.5	33.0	11.2	40.6	21.8
EOMMT 10M - 8G	10	1/2	7.9	27	19	17.2	19.5	38.9	14.2	46.5	26.0
EOMMT 12M - 4G	12	1/4	5.9	22	22	22.8	22.0	32.5	11.2	42.6	18.0
EOMMT 12M - 6G	12	3/8	7.9	22	22	22.8	22.0	33.0	11.2	43.1	21.8
EOMMT 12M - 8G	12	1/2	9.5	27	22	22.8	22.0	38.9	14.2	49.0	26.0
EOMMT 12M - 12G	12	3/4	9.5	35	22	22.8	22.0	42.7	15.7	52.8	32.0
EOMMT 15M - 8G	15	1/2	11.9	27	25	22.4	22.0	28.9	14.2	49.0	26.0
EOMMT 16M - 6G	16	3/8	7.9	24	25	24.4	22.0	33.8	11.2	43.9	21.8
EOMMT 16M - 8G	16	1/2	11.9	27	25	24.4	22.0	38.9	14.2	49.0	26.0
EOMMT 18M - 8G	18	1/2	11.9	27	30	24.4	22.0	38.9	14.2	49.0	26.0
EOMMT 18M - 12G	18	3/4	15.1	35	30	24.4	22.0	42.7	15.7	52.8	32.0
EOMMT 20M - 8G	20	1/2	11.9	30	32	26.0	22.0	40.4	14.2	50.8	26.0
EOMMT 20M - 12G	20	3/4	15.9	35	32	26.0	22.0	42.7	15.4	52.8	32.0
EOMMT 22M - 12G	22	3/4	15.9	35	32	26.0	22.0	42.7	15.4	52.8	32.0
EOMMT 22M - 16G	22	1	18.3	41	32	26.0	22.0	45.2	18.3	55.3	39.0
EOMMT 25M - 12G	25	3/4	15.9	35	38	31.3	26.5	45.2	15.7	57.5	32.0
EOMMT 25M - 16G	25	1	19.8	41	38	31.3	26.5	47.8	18.3	60.1	39.0

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicateng brass material.

### EFMT Female Connector

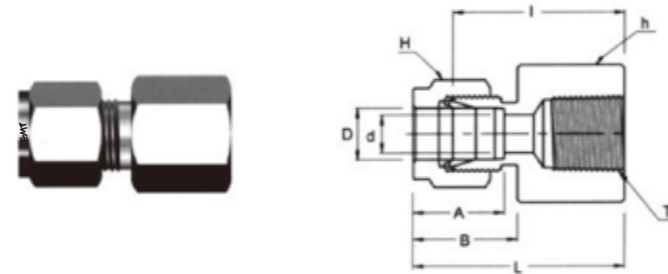


Connects Fractional Tubes To Male NPT Thread

Part No.	Tube O.D D(in)	T (NPT)	d Min	Width Across Flat		A	B	I	L
				h	H				
EFMT 2 - 2N	1/8	1/8	2.28	9/16	7/16	12.70	15.24	22.09	28.70
EFMT 2 - 4N	1/8	1/4	2.28	3/4	7/16	12.70	15.24	26.92	33.52
EFMT 3 - 2N	3/16	1/8	3.04	9/16	1/2	13.71	16.00	23.11	29.71
EFMT 4 - 2N	1/4	1/8	4.82	9/16	9/16	15.24	17.78	23.87	31.24
EFMT 4 - 4N	1/4	1/4	4.82	3/4	9/16	15.24	17.78	28.44	35.81
EFMT 4 - 6N	1/4	3/8	4.82	7/8	9/16	15.24	17.78	30.22	37.59
EFMT 4 - 8N	1/4	1/2	4.82	1-1/16	9/16	15.24	17.78	35.05	42.41
EFMT 5 - 2N	5/16	1/8	6.35	9/16	5/8	16.25	18.54	24.63	32.00
EFMT 5 - 4N	5/16	1/4	6.35	3/4	5/8	16.25	18.54	29.46	36.83
EFMT 6 - 2N	3/8	1/8	7.11	5/8	11/16	16.76	19.30	25.40	32.76
EFMT 6 - 4N	3/8	1/4	7.11	3/4	11/16	16.76	19.30	30.22	37.59
EFMT 6 - 6N	3/8	3/8	7.11	7/8	11/16	16.76	19.30	31.75	39.11
EFMT 6 - 8N	3/8	1/2	7.11	1-1/16	11/16	16.76	19.30	36.57	43.94
EFMT 6 - 12N	3/8	3/4	7.11	1-5/16	11/16	16.76	19.30	40.38	47.75
EFMT 8 - 4N	1/2	1/4	10.41	13/16	7/8	22.86	21.84	30.22	40.38
EFMT 8 - 6N	1/2	3/8	10.41	7/8	7/8	22.86	21.84	31.75	41.91
EFMT 8 - 8N	1/2	1/2	10.41	1-1/16	7/8	22.86	21.84	36.57	46.73
EFMT 8 - 12N	1/2	3/4	10.41	1-5/16	7/8	22.86	21.84	38.10	48.26
EFMT 10 - 6N	5/8	3/8	12.70	15/16	1	24.38	21.84	31.75	41.91
EFMT 10 - 8N	5/8	1/2	12.70	1-1/16	1	24.38	21.84	36.57	46.73
EFMT 12 - 8N	3/4	1/2	15.74	1-1/16	1-1/8	24.38	21.84	36.57	46.73
EFMT 12 - 12N	3/4	3/4	15.74	1-5/16	1-1/8	24.38	21.84	38.10	48.26
EFMT 14 - 12N	7/8	3/4	18.28	1-5/16	1-1/4	25.90	21.84	39.62	49.78
EFMT 16 - 12N	1	3/4	22.35	1-3/8	1-4/2	31.24	26.41	41.14	53.34
EFMT 16 - 16N	1	1	22.35	1-5/8	1-1/2	31.24	26.41	50.03	62.23

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicateng brass material.

## EFMT Female Connector

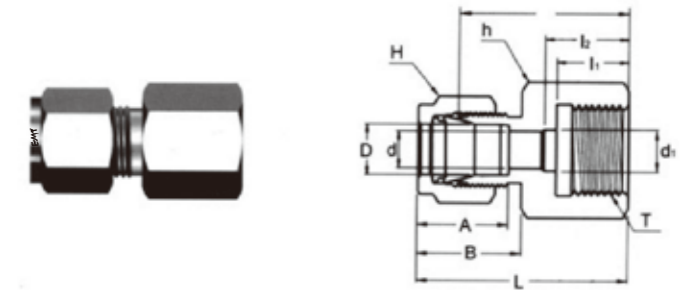


### Connects Metric Tubes To Male ISO Tapered Thread

Part No.	Tube O.D D(mm)	T (PT)	d Min	Width Across Flat		A	B	I	L
				h	H				
EFMT 3M - 2R	3	1/8	2.4	14	12	12.9	15.3	22.1	28.7
EFMT 3M - 4R	3	1/4	2.4	19	12	12.9	15.3	26.9	33.5
EFMT 4M - 2R	4	1/8	2.4	14	12	13.7	16.1	23.1	29.7
EFMT 6M - 2R	6	1/8	4.8	14	14	15.3	17.7	23.9	31.3
EFMT 6M - 4R	6	1/4	4.8	19	14	15.3	17.7	28.4	35.8
EFMT 6M - 6R	6	3/8	4.8	22	14	15.3	17.7	30.2	37.6
EFMT 6M - 8R	6	1/2	4.8	27	14	15.3	17.7	35.1	42.5
EFMT 8M - 2R	8	1/8	6.4	15	16	16.2	18.6	24.6	32.1
EFMT 8M - 4R	8	1/4	6.4	19	16	16.2	18.6	29.5	37.0
EFMT 8M - 6R	8	3/8	6.4	22	16	16.2	18.6	31.0	38.5
EFMT 8M - 8R	8	1/2	6.4	27	16	16.2	18.6	35.8	43.3
EFMT 10M - 2R	10	1/8	7.9	18	19	17.2	19.5	25.4	33.0
EFMT 10M - 4R	10	1/4	7.9	19	19	17.2	19.5	30.2	37.8
EFMT 10M - 6R	10	3/8	7.9	22	19	17.2	19.5	31.8	39.4
EFMT 10M - 8R	10	1/2	7.9	27	19	17.2	19.5	36.6	44.2
EFMT 12M - 2R	12	1/8	8.3	22	22	22.8	22.0	25.4	35.5
EFMT 12M - 4R	12	1/4	9.5	22	22	22.8	22.0	30.2	40.3
EFMT 12M - 6R	12	3/8	9.5	22	22	22.8	22.0	31.8	41.9
EFMT 12M - 8R	12	1/2	9.5	27	22	22.8	22.0	36.6	46.7
EFMT 12M - 12R	12	3/4	9.5	35	22	22.8	22.0	38.9	49.0
EFMT 15M - 8R	15	1/2	11.9	27	25	24.4	22.0	36.6	46.7
EFMT 16M - 8R	16	1/2	12.7	27	25	24.4	22.0	36.8	46.9
EFMT 20M - 8R	20	1/2	15.9	30	32	26.0	22.0	37.8	47.9
EFMT 20M - 12R	20	3/4	15.9	35	32	26.0	22.0	39.6	49.7
EFMT 22M - 12R	22	3/4	18.3	35	32	26.0	22.0	39.6	49.7
EFMT 22M - 16R	22	1	18.3	41	32	26.0	22.0	47.8	57.9
EFMT 25M - 12R	25	3/4	21.8	35	38	31.3	26.5	41.1	53.4
EFMT 25M - 16R	25	1	21.8	41	38	31.3	26.5	50.0	62.3

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

## EGMT Gauge Connector



### Connects Fractional Tubes To Parallel Thread

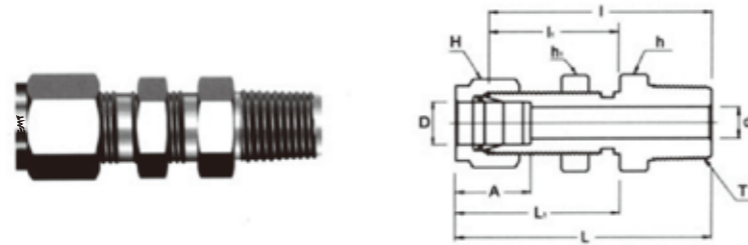
Part No.	Tube O.D D(in)	T (G)	d Min	d1	Width Across Flat		A	B	I	I1	I2	L
					h	H						
EGMT 4 - 4G	1/4	1/4	4.82	5.58	3/4	9/16	15.24	17.78	30.22	13.00	17.00	37.59
EGMT 4 - 6G	1/4	3/8	4.82	6.60	15/16	9/16	15.24	17.78	30.22	14.20	20.30	37.59
EGMT 4 - 8G	1/4	1/2	4.82	6.60	1-1/16	9/16	15.24	17.78	36.07	18.80	24.90	43.43
EGMT 5 - 4G	5/16	1/4	5.58	-	3-4	5/8	16.25	18.54	30.98	13.00	-	38.35
EGMT 5 - 8G	5/16	1/2	7.11	-	1-1/16	5/8	16.25	18.54	33.53	18.80	-	40.89
EGMT 6 - 4G	3/8	1/4	5.58	-	3/4	11/16	16.76	19.30	31.75	13.00	-	39.12
EGMT 6 - 6G	3/8	3/8	6.60	-	15/16	11/16	16.76	19.30	31.24	14.20	-	38.61
EGMT 6 - 8G	3/8	1/2	7.11	-	1-1/16	11/16	16.76	19.30	34.54	18.80	-	41.91
EGMT 8 - 4G	1/2	1/4	5.58	-	7/8	7/8	22.86	21.84	31.80	13.00	-	41.95
EGMT 8 - 6G	1/2	3/8	6.60	-	15/16	7/8	22.86	21.84	34.29	14.20	-	44.45
EGMT 8 - 8G	1/2	1/2	7.11	7.11	1-1/16	7/8	22.86	21.84	38.10	18.80	-	48.26

### Connects Metric Tubes To ISO Parallel Thread

Part No.	Tube O.D D(mm)	T (G)	d Min	d1	Width Across Flat		A	B	I	I1	I2	L
					h	H						
EGMT 3M -4G	3	1/4	2.4	5.5	19	12	12.9	15.3	28.7	13	17	35.3
EGMT 6M 4G	6	1/4	4.8	5.5	19	14	15.3	17.7	30.2	13	17	37.6
EGMT 6M -6G	6	3/8	4.8	6.5	24	14	15.3	17.7	30.2	14	20	37.6
EGMT 6M -8G	6	1/2	4.8	7.0	27	14	15.3	17.7	36.1	19	25	43.5
EGMT 8M -4G	8	1/4	5.5	5.5	19	16	16.2	18.6	31.0	13	-	38.5
EGMT 8M -6G	8	3/8	6.5	6.5	24	16	16.2	18.6	28.7	14	-	36.2
EGMT 8M -8G	8	1/2	7.0	7.0	27	16	16.2	18.6	33.5	19	-	41.0
EGMT 10M -4G	10	1/4	5.5	5.5	19	19	17.2	19.5	31.8	13	-	39.4
EGMT 10M -6G	10	3/8	6.5	6.5	24	19	17.2	19.5	31.2	14	-	38.8
EGMT 10M -8G	10	1/2	7.0	7.0	27	19	17.2	19.5	34.5	19	-	42.1
EGMT 12M -4G	12	1/4	5.5	5.0	22	22	22.8	22.0	31.8	13	-	41.9
EGMT 12M -6G	12	3/8	6.5	5.5	24	22	22.8	22.0	34.3	14	-	44.4
EGMT 12M -8G	12	1/2	7.0	7.0	27	22	22.8	22.0	38.1	19	-	48.2
EGMT 20M -8G	20	1/2	7.0	7.0	30	32	26.0	22.0	44.2	19	-	54.3
EGMT 22M -8G	22	1/2	7.0	7.0	30	32	26.0	22.0	44.2	19	-	54.3

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

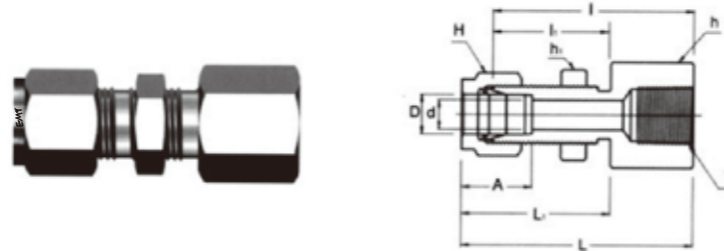
## EBMMT Bulkhead Male Connector



Connects Fractional Tubes To Female NPT Thread

Part No.	Tube O.D. D(in)	T (NPT)	d Min	Width Across Flat			A	I	h	L	L1	Panel Hole Drill Size	Panel Max. Thickness
				h	h1	H							
EBMMT 2-2N	1/8	1/8	2.28	1/2	1/2	7-16	12.70	39.87	24.63	46.48	31.24	8.33	12.70
EBMMT 4-2N	1/4	1/8	4.82	5/8	5/8	9/16	15.24	42.16	26.16	49.53	33.52	11.50	10.16
EBMMT 4-4N	1/4	1/4	4.82	5/8	5/8	9/16	15.24	46.73	26.16	54.10	33.52	11.50	10.16
EBMMT 6-4N	3/8	1/4	7.11	3/4	3/4	11/16	16.76	50.03	29.46	57.40	36.83	14.68	11.17
EBMMT 6-6N	3/8	3/8	7.11	3/4	3/4	11/16	16.76	50.03	29.46	57.40	36.83	14.68	11.17
EBMMT 6-8N	3/8	1/2	7.11	7/8	3/4	11/16	16.76	56.38	29.46	63.75	36.83	14.68	11.17
EBMMT 8-6N	1/2	3/8	9.65	15/16	15/16	7/8	22.86	53.08	31.75	63.24	41.91	19.44	12.70
EBMMT 8-8N	1/2	1/2	10.41	15/16	15/16	7/8	22.86	58.67	31.75	68.83	41.91	19.44	12.70
EBMMT 12-12N	3/4	3/4	15.74	1-3/16	1-3/16	1-1/8	24.38	66.04	37.33	76.20	47.49	25.79	16.76
EBMMT 16-16N	1	1	22.35	1-5/8	1-5/8	1-1/2	31.24	81.02	45.21	93.21	57.340	33.73	19.05

## EBFMT Male Connector



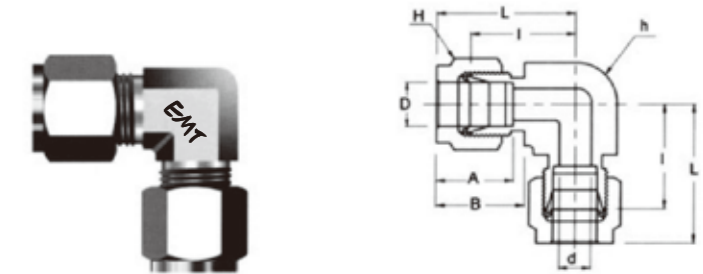
Connects Fractional Tubes To Male NPT Thread

Part No.	Tube O.D. D(in)	T (NPT)	d Min	Width Across Flat			A	I	I1	L	L1	Panel Hole Drill Size	Panel Max. Thickness
				h	h1	H							
EBFMT 2-2N	1/8	1/8	2.28	9/16	1/2	7/16	12.70	38.10	24.63	44.70	31.24	8.33	12.70
EBFMT 4-2N	1/4	1/8	4.82	5/8	5/8	9/16	15.24	39.62	26.16	46.99	33.52	11.50	10.16
EBFMT 4-4N	1/4	1/4	4.82	3/4	5/8	9/16	15.24	44.45	26.16	51.81	33.52	11.50	10.16
EBFMT 6-4N	3/8	1/4	7.11	3/4	3/4	11/16	16.76	47.75	29.46	55.11	36.83	14.68	11.17
EBFMT 8-6N	1/2	3/8	10.41	15/16	15/16	7/8	22.86	51.56	31.75	61.72	41.91	19.44	12.70
EBFMT 8-8N	1/2	1/2	10.41	1-1/16	15/16	7/8	22.86	56.38	31.75	66.54	41.91	19.44	12.70
EBFMT 12-12N	3/4	3/4	15.74	1-1/4	1-3/16	1-1/8	24.38	63.60	37.33	73.51	47.49	25.79	16.76

Connects Metric Tubes To Male NPT Thread

Part No.	Tube O.D. D(in)	T (NPT)	d Min	Width Across Flat			A	I	I1	L	L1	Panel Hole Drill Size	Panel Max. Thickness
				h	h1	H							
EBFMT 6M-2N	6	1/8	4.8	15.8	15.8	14	15.3	39.6	27.7	46.90	35.00	11.5	10.2
EBFMT 6M-4N	6	1/4	4.8	19.0	16.0	14	15.3	44.4	26.2	51.80	33.60	11.5	10.2
EBFMT 8M-4N	8	1/4	6.3	19.0	17.4	16	16.2	46.7	28.4	53.85	35.55	13.1	11.2
EBFMT 12M-8N	12	1/2	9.5	27.0	24.0	22	22.8	56.4	31.8	66.50	41.90	19.5	12.7

## EUE Union Elbow



Connects Fractional Tubes

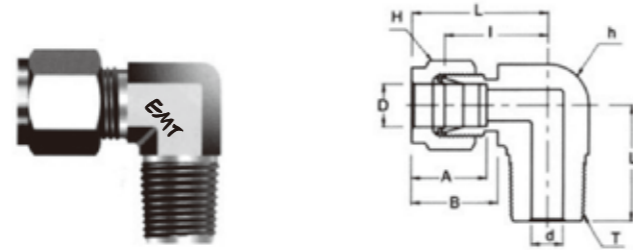
Part No.	Tube O.D. D(in)	d Min	Width Across Flat		A	B	I	L
			h	H				
EUE-2	1/8	2.28	3/8	7/16	12.70	15.24	15.74	22.35
EUE-3	3/16	3.04	1/2	1/2	13.71	16.00	18.54	25.14
EUE-4	1/4	4.82	1/2	9/16	15.24	17.78	19.55	26.92
EUE-5	5/16	6.35	5/8	5/8	16.25	18.54	22.35	29.71
EUE-6	3/8	7.11	5/8	11/16	16.76	19.30	23.11	30.48
EUE-8	1/2	10.41	13/16	7/8	22.86	21.84	25.90	36.06
EUE-10	5/8	12.70	15/16	1	24.38	21.84	27.94	38.10
EUE-12	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87
EUE-14	7/8	18.28	1-3/8	1-1/4	25.90	21.84	34.54	44.70
EUE-16	1	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02

Connects Metric Tubes

Part No.	Tube O.D. D(mm)	d Min	Width Across Flat		A	B	I	L
			h	H				
EUE-3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
EUE-4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4
EUE-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
EUE-8M	8	6.4	15.9	16	16.2	18.5	22.4	29.9
EUE-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
EUE-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
EUE-15M	15	11.9	23.8	25	24.4	22.0	27.9	38.8
EUE-16M	16	12.7	23.8	25	24.4	22.0	27.9	38.0
EUE-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
EUE-20M	20	15.9	34.9	32	26.0	22.0	34.5	44.6
EUE-22M	22	18.3	34.9	32	26.0	22.0	34.5	44.6
EUE-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

**EME Union Elbow**

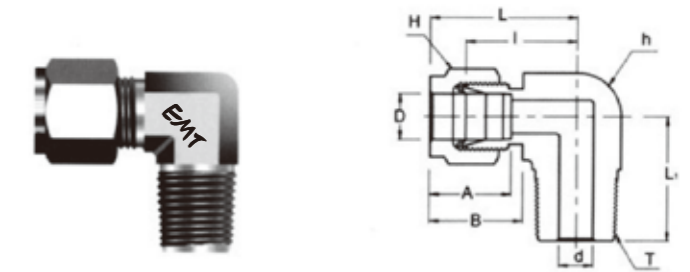


Connects Metric Tube To Female NPT Thread

Part No.	Tube O.D D(in)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EME 3M-2N	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
EME 3M-4N	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
EME 4M-2N	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
EME 4M-4N	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
EME 6M-2N	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
EME 6M-4N	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
EME 6M-6N	6	3/8	4.8	15.9	14	15.3	17.7	22.4	29.8	26.2
EME 6M-8N	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
EME 8M-2N	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
EME 8M-4N	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
EME 8M-6N	8	3/8	6.4	15.9	16	16.2	18.6	23.1	30.6	26.2
EME 8M-8N	8	1/2	6.4	20.6	16	16.2	19.5	25.1	32.6	33.0
EME 10M-2N	10	1/8	4.8	17.5	19	17.2	19.5	23.9	31.5	21.6
EME 10M-4N	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
EME 10M-6N	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
EME 10M-8N	10	1/2	7.9	20.6	19	17.2	22.0	25.9	33.5	33.0
EME 12M-4N	12	1/4	7.1	20.6	19	22.8	22.0	25.9	36.0	28.2
EME 12M-6N	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
EME 12M-8N	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
EME 12M-12N	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
EME 16M-6N	16	3/8	9.5	23.8	25	24.4	22.0	27.9	38.0	30.2
EME 16M-8N	16	1/2	11.9	23.8	25	24.4	22.0	27.9	38.0	35.1
EME 16M-12N	16	3/4	12.7	27.0	25	24.4	22.0	29.7	39.8	36.8
EME 18M-8N	18	1/2	11.9	27.0	30	24.4	22.0	29.7	39.8	36.8
EME 18M-12N	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
EME 20M-8N	20	1/2	11.9	24.9	32	26.0	22.0	34.5	44.6	41.7
EME 20M-12N	20	3/4	15.9	34.9	32	26.0	22.0	34.5	44.6	41.7
EME 22M-12N	22	3/4	15.9	34.9	32	26.0	22.0	34.5	44.6	41.7
EME 22M-16N	22	1	18.3	34.9	32	26.0	22.0	34.5	44.6	46.5
EME 25M-12N	25	3/4	15.9	34.9	38	31.3	26.5	36.8	49.1	41.7
EME 25M-16N	25	1	21.8	34.9	38	31.3	26.5	36.8	49.1	46.5

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

**EME Male Elbow**

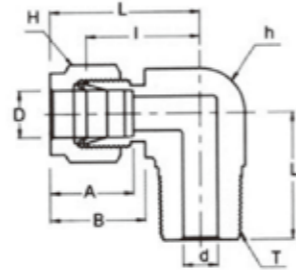


Connects Metric Tubes To Female ISO Tapered Thread

Part No.	Tube O.D D(mm)	T (PT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EME 3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
EME 3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
EME 4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
EME 4M-4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
EME 6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
EME 6M-4R	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
EME 6M-6R	6	3/8	4.8	15.9	14	15.3	17.7	22.4	29.8	26.2
EME 6M-8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
EME 8M-2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
EME 8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
EME 8M-6R	8	3/8	6.4	15.9	16	16.2	18.6	23.1	30.6	26.2
EME 8M-8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
EME 10M-4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
EME 10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
EME 10M-8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
EME 12M-2R	12	1/8	4.8	20.6	22	22.8	22.0	25.9	36.0	23.6
EME 12M-4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
EME 12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
EME 12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
EME 12M-12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
EME 16M-6R	16	3/8	9.5	23.8	25	24.4	22.0	27.9	38.0	30.2
EME 16M-8R	16	1/2	11.9	23.8	25	24.4	22.0	27.9	38.0	35.1
EME 18M-8R	18	1/2	11.9	27.0	30	24.4	22.0	29.7	39.8	36.8
EME 18M-12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
EME 20M-8R	20	1/2	11.9	34.9	32	26.0	22.0	34.5	44.6	41.7
EME 20M-12R	20	3/4	15.9	34.9	32	26.0	22.0	34.5	44.6	41.7
EME 22M-12R	22	3/4	15.9	34.9	32	26.0	22.0	34.5	44.6	41.7
EME 22M-16R	22	1	18.3	34.9	32	26.0	22.0	34.5	44.6	46.5
EME 25M-12R	25	3/4	15.9	34.9	38	31.3	26.5	36.8	49.1	41.4
EME 25M-16R	25	1	21.8	34.9	38	31.3	26.5	36.8	49.1	46.5

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

**EME Male Elbow**

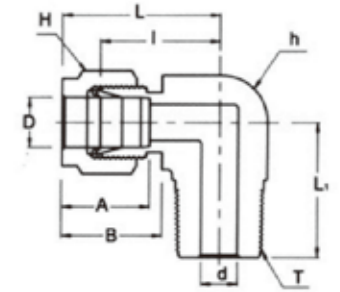


Connects Metric Tube To Female NPT Thread

Part No.	Tube O.D D(in)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EME 2-2N	1/8	1/8	2.28	1/2	7/16	12.70	15.24	18.00	24.30	18.80
EME 2-4N	1/8	1/4	2.28	1/2	7/16	12.70	15.24	18.00	24.30	23.36
EME 3-2N	3/16	1/8	3.04	1/2	1/2	13.71	16.00	18.79	25.40	18.79
EME 3-4N	3/16	1/4	3.04	1/2	1/2	13.71	16.00	18.79	25.40	23.36
EME 4-2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	19.55	26.92	18.79
EME 4-4N	1/4	1/4	4.82	1/2	9/16	15.24	17.78	19.55	26.92	23.36
EME 4-6N	1/4	3/8	4.82	5/8	9/16	15.24	17.78	22.35	29.71	26.16
EME 4-8N	1/4	1/2	4.82	13/16	9/16	15.24	17.78	24.38	31.75	33.02
EME 5-2N	5/16	1/8	4.48	9/16	5/8	16.25	18.54	21.33	28.70	19.81
EME 5-4N	5/16	1/4	6.35	9/16	5/8	16.25	18.54	21.33	28.70	24.38
EME 5-6N	5/16	3/8	6.35	11/16	5/8	16.25	18.54	23.11	30.48	26.16
EME 6-2N	3/8	1/8	4.82	5/8	11/16	16.76	19.30	23.11	30.48	20.82
EME 6-4N	3/8	1/4	7.11	5/8	11/16	16.76	19.30	23.11	30.48	25.40
EME 6-6N	3/8	3/8	7.11	5/8	11/16	16.76	19.30	23.87	31.24	26.16
EME 6-8N	3/8	1/2	7.11	13/16	11/16	16.76	19.30	25.90	33.27	33.02
EME 6-12N	3/8	3/4	7.11	1-1/16	11/16	16.76	19.30	29.71	37.08	36.83
EME 8-4N	1/2	1/4	7.11	13/16	7/8	22.86	21.84	25.90	36.06	28.19
EME 8-6N	1/2	3/8	9.65	13/16	7/8	22.86	21.84	25.90	36.06	28.19
EME 8-8N	1/2	1/2	10.41	13/16	7/8	22.86	21.84	25.90	36.06	33.02
EME 8-12N	1/2	3/4	10.41	1-1/16	7/8	22.86	21.84	29.71	39.87	36.83
EME 10-6N	5/8	3/8	9.65	15/16	1	24.38	21.84	27.94	38.10	30.22
EME 10-8N	5/8	1/2	11.93	15/16	1	24.38	21.84	27.94	38.10	35.10
EME 10-12N	5/8	3/4	12.70	1-1/16	1	24.38	21.84	29.71	39.87	36.83
EME 12-8N	3/4	1/2	11.93	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83
EME 12-12N	3/4	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83
EME 14-12N	7/8	3/4	15.74	1-3/8	1-1/4	25.90	21.84	34.54	44.70	41.65
EME 16-12N	1	3/4	15.74	1-3/8	1-1/2	31.24	26.41	36.83	49.02	41.65
EME 16-16N	1	1	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02	46.48

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

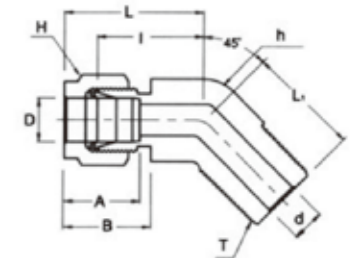
**EME Male Elbow**



Connects Fractional Tubes To Female ISO Tapered Thread

Part No.	Tube O.D D(in)	T R(PT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EME 4-2R	1/4	1/8	4.82	1/2	9/16	15.24	17.78	19.55	26.92	18.79
EME 4-4R	1/4	1/4	4.82	1/2	9/16	15.24	17.78	19.55	26.92	23.36
EME 4-6R	1/4	3/8	4.82	5/8	9/16	15.24	17.78	22.35	29.71	26.16
EME 4-8R	1/4	1/2	4.82	13/16	9/16	15.24	17.78	24.38	31.75	33.02
EME 5-4R	5/16	1/4	6.35	9/16	5/8	16.25	18.54	21.33	28.70	24.38
EME 6-4R	3/8	1/4	7.11	5/8	11/16	16.76	19.30	23.11	30.48	25.40
EME 6-6R	3/8	3/8	7.11	5/8	11/16	16.76	19.30	23.87	31.24	26.16
EME 8-6R	1/2	3/8	9.65	13/16	7/8	22.86	21.84	25.91	36.07	28.20
EME 8-8R	1/2	1/2	10.41	13/16	7/8	22.86	21.84	25.91	36.07	33.02

**EHME 45° Male Elbow**

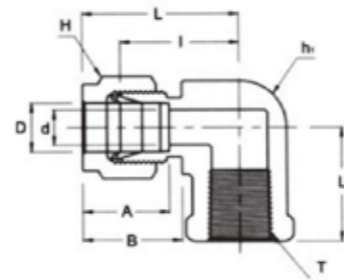


Connects Fractional Tubes To Female NPT Thread

Part No.	Tube O.D D(in)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EHME 4-2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	17.27	24.63	16.51
EHME 4-4N	1/4	1/4	4.82	1/2	9/16	15.24	17.78	17.27	24.63	21.08
EHME 6-2N	3/8	1/8	4.82	5/8	11/16	16.76	19.30	20.57	27.94	18.28
EHME 6-4N	3/8	1/4	7.11	5/8	11/16	16.76	19.30	20.57	27.94	22.86
EHME 6-6N	3/8	3/8	7.11	13/16	11/16	16.76	19.30	21.84	29.21	24.13
EHME 8-6N	1/2	3/8	9.65	13/16	7/8	22.86	21.84	21.84	32.00	24.13
EHME 8-8N	1/2	1/2	10.41	13/16	7/8	22.86	21.84	21.81	32.00	28.95

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

EFE Female Elbow



Connects Fractional Tubes To Male NPT Thread

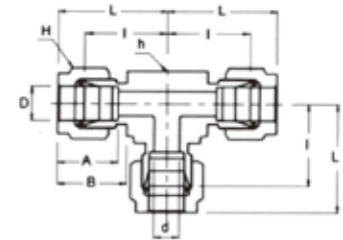
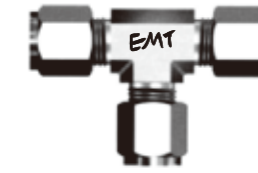
Part No.	Tube O.D D(in)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EFE 2-2N	1/8	1/8	2.28	1/2	7/16	12.70	15.24	18.03	24.63	19.05
EFE 2-4N	1/8	1/4	2.28	11/16	7/16	12.70	15.24	20.82	27.43	22.35
EFE 3-2N	3/16	1/8	3.04	1/2	1/2	13.71	16.00	18.79	25.40	19.05
EFE 4-2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	19.55	26.92	19.05
EFE 4-4N	1/4	1/4	4.82	11/16	9/16	15.24	17.78	22.35	29.71	22.35
EFE 4-6N	1/4	3/8	4.82	13/16	9/16	15.24	17.78	24.38	31.75	22.35
EFE 4-8N	1/4	1/2	4.82	1	9/16	15.24	17.78	27.17	34.54	28.44
EFE 5-2N	5/16	1/8	6.35	9/16	5/8	16.25	18.54	21.33	28.70	19.05
EFE 5-4N	5/16	1/4	6.35	11/16	5/8	16.25	18.54	23.11	30.48	22.35
EFE 6-2N	3/8	1/8	7.11	5/8	11/16	16.76	19.30	23.11	30.48	19.05
EFE 6-4N	3/8	1/4	7.11	11/16	11/16	16.76	19.30	23.87	31.24	22.35
EFE 6-6N	3/8	3/8	7.11	13/16	11/16	16.76	19.30	25.90	33.27	22.35
EFE 6-8N	3/8	1/2	7.11	1	11/16	16.76	19.30	28.70	36.06	28.44
EFE 8-4N	1/2	1/4	10.41	13/16	7/8	22.86	21.84	25.90	36.06	22.35
EFE 8-6N	1/2	3/8	10.41	13/16	7/8	22.86	21.84	25.90	36.06	22.35
EFE 8-8N	1/2	1/2	10.41	1	7/8	22.86	21.84	28.70	36.06	28.44
EFE 10-6N	5/8	3/8	12.70	15/16	1	24.38	21.84	27.94	38.86	22.35
EFE 10-8N	5/8	1/2	12.70	1-1/16	1	24.38	21.84	29.71	39.87	28.44
EFE 12-8N	3/4	1/2	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87	28.44
EFE 12-12N	3/4	3/4	15.74	1-3/8	1-1/8	24.38	21.84	34.54	44.70	31.75
EFE 14-12N	7/8	3/4	18.28	1-3/8	1-1/4	25.90	21.84	34.54	44.70	31.75
EFE 16-12N	1	3/4	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02	31.75
EFE 16-16N	1	1	22.35	1-11/16	1-1/2	31.24	26.41	41.40	53.59	38.10

Connects Metric Tubes To Male NPT Thread

Part No.	Tube O.D D(mm)	T R(PT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EFE 6M-4R	6	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.40
EFE 6M-6R	6	3/8	4.8	20.63	14	15.3	17.7	22.4	31.7	22.40
EFE 6M-8R	6	1/2	4.8	25.40	14	16.2	17.7	27.2	34.6	28.40
EFE 8M-4R	8	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.40
EFE 8M-8R	8	1/2	6.4	20.63	16	17.2	18.6	28.0	35.2	28.40
EFE 10M-4R	10	1/4	7.9	17.46	19	17.2	19.5	25.9	33.5	22.40
EFE 10M-6R	10	3/8	7.9	20.63	19	17.2	19.5	25.9	33.5	22.40
EFE 10M-8R	10	1/2	7.9	25.40	19	17.2	19.5	28.7	36.1	28.40
EFE 12M-6R	12	3/8	9.5	20.63	22	22.8	22.0	25.9	36.2	22.35
EFE 12M-8R	12	1/2	9.5	25.40	22	22.8	22.0	28.7	38.8	28.40

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

EUT Union Tee



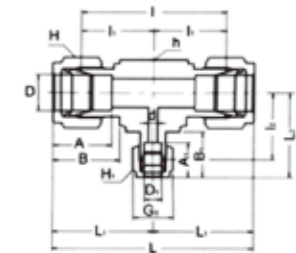
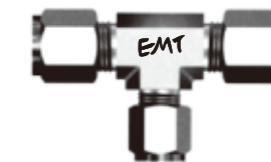
Connects Fractional Tubes

Part No.	Tube O.D D(in)	d Min	Width Across Flat		A	B	I	L
			h	H				
EUT-1	1/16	1.27	3/8	5/16	8.63	10.92	14.00	18.03
EUT-2	1/8	2.28	3/8	7/16	12.70	15.24	15.74	22.35
EUT-3	3/16	3.04	1/2	1/2	13.71	16.00	18.54	25.14
EUT-4	1/4	4.82	1/2	9/16	15.24	17.78	19.55	26.92
EUT-5	5/16	6.35	5/8	5/8	16.25	18.54	22.35	29.71
EUT-6	3/8	7.11	5/8	11/16	16.76	19.30	23.11	30.48
EUT-8	1/2	10.41	13/16	7/8	22.86	21.84	25.90	36.06
EUT-10	5/8	12.70	15/16	1	24.38	21.84	27.94	38.10
EUT-12	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87
EUT-14	7/8	18.28	1-3/8	1-1/4	25.90	21.84	34.54	44.70
EUT-16	1	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02

Connects Metric Tubes

Part No.	Tube O.D D(in)	d Min	Width Across Flat		A	B	I	L
			h	H				
EUT-2M	2	1.7	9.5	12	12.9	15.3	15.7	22.3
EUT-3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
EUT-4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4
EUT-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
EUT-8M	8	6.4	15.9	16	16.2	18.5	22.4	29.9
EUT-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
EUT-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
EUT-15M	15	11.9	23.8	25	24.4	22.0	27.9	38.8
EUT-16M	16	12.7	23.8	25	24.4	22.0	27.9	38.0
EUT-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
EUT-20M	20	15.9	34.9	32	26.0	22.0	34.5	44.6
EUT-22M	22	18.3	34.9	32	26.0	22.0	34.5	44.6
EUT-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1

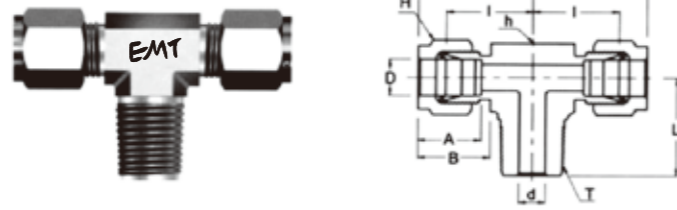
ERUT Reducing Union Tee



Connects Fractional Tubes

Part No.	Tube O.D D(in) D1(in)	d Min	Width Across Flat			A	A1	B	B1	I	I1	I2	L	L1	L2
			h	H	H1										
ERUT 6-6-4	3/8 1/4	4.82	5/8	11/16	9/16	16/76	15.24	19.30	17.78	46.22	23.11	21.59	60.96	30.48	28.95
ERUT 8-8-4	1/2 1/4	4.82	13/16	7/8	9/16	22.86	15.24	21.84	17.78	51.81	25.90	24.38	72.13	36.06	31.75
ERUT 8-8-6	1/2 3/8	7.11	13/16	7/8	11/16	22.86	16.76	21.84	19.30	51.81	25.90	25.90	72.13	36.06	33.27
ERUT 10-10-6	5/8 3/8	7.11	1	1	11/16	24.38	16.76	21.84	19.30	57.40	28.70	28.70	77.72	36.86	36.06
ERUT 12-12-6	3/4 3/8	7.11	11/16	11/8	11/16	24.38	16.76	21.84	19.30	59.43	29.71	29.71	79.75	39.87	37.08
ERUT 12-12-8	3/4 1/2	10.41	11/16	11/8	7/8	24.38	22.86	21.84	21.84	59.43	29.71	29.71	79.75	39.87	39.87
ERUT 16-16-6	1 3/8	7.11	13/8	11/2	11/16	31.24	16.76	19.30	19.30	73.66	36.83	36.83	98.04	49.02	41.91
ERUT 16-16-8	1 1/2	10.41	13/8	11/2	7/8	31.24	21.84	22.86	22.86	73.66	36.83	36.83	98.04	49.02	44.70
ERUT 16-16-12	1 3/4	15.74	13/8	11/8	11/8	31.24	24.38	21.84	21.84	73.66	36.83	36.83	98.04	49.02	44.70

**EMBT  
Male Branch Tee**



Connects Fractional Tubes To Female PT Thread

Part No.	Tube O.D D(in)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EMBT 2-2N	1/8	1/8	2.28	2/1	7/16	12.70	15.24	18.30	24.91	18.90
EMBT 2-4N	1/8	1/4	2.28	2/1	7/16	12.70	15.24	18.30	24.63	23.36
EMBT 3-2N	3/16	1/8	3.04	2/1	1/2	13.71	16.00	17.78	25.40	18.79
EMBT 4-2N	1/4	1/8	4.82	2/1	9/16	15.24	17.78	19.55	26.92	18.79
EMBT 4-4N	1/4	1/4	4.82	2/1	9/16	15.24	17.78	19.55	26.92	23.36
EMBT 5-2N	5/16	1/8	4.82	5/8	5/8	16.25	18.54	22.35	29.71	20.82
EMBT 6-4N	3/8	1/4	7.11	5/8	11/16	16.76	19.30	23.11	30.48	25.40
EMBT 6-6N	3/8	3/8	7.11	5/8	11/16	16.76	21.84	25.90	33.27	28.19
EMBT 8-6N	1/2	3/8	9.65	13/16	7/8	22.86	21.84	25.90	36.06	28.19
EMBT 8-8N	1/2	1/2	10.41	13/16	7/8	22.86	21.84	25.90	36.06	33.02
EMBT 10-8N	5/8	1/2	11.93	1	1	24.38	21.84	28.70	38.86	35.81
EMBT 12-12N	3/4	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83

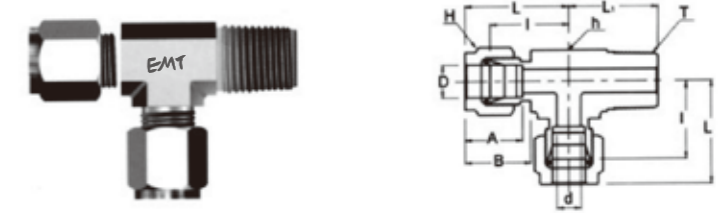
\*ISO Tapered Threads are available upon request

Connects Metric Tubes To Female ISO Tapered Thread 三通终端卡套接头

Part No.	Tube O.D D(mm)	T R(PT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EMBT 3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
EMBT 3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
EMBT 4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
EMBT 6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
EMBT 6M-4R	6	1/4	4.8	14.2	14	15.3	17.7	19.6	27.0	23.4
EMBT 8M-2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
EMBT 8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
EMBT 10M-4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	28.2
EMBT 10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	28.2
EMBT 12M-4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
EMBT 12M-6R	12	1/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
EMBT 12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
EMBT 16M-6R	16	3/8	9.5	24.4	25	24.4	22.0	27.9	38.0	30.0
EMBT 16M-8R	16	1/2	11.9	24.4	25	24.4	22.0	27.9	38.0	35.1
EMBT 20M-12R	20	3/4	11.9	31.8	32	26.0	22.0	34.5	44.6	41.7

Note: The material is stainless steel,if ordering brass,please end with "ee" ,e.g.eosc-mm-ee,indicating brass material.

**EMRT  
Male Run Tee**



Connects Fractional Tubes To Female ISO Thread

Part No.	Tube O.D. D(mm)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EMRT 2-2N	1/8	1/8	2.28	1/2	7/16	12.70	15.24	18.30	24.91	18.90
EMRT 2-4N	1/8	1/4	2.28	1/2	7/16	12.70	15.24	18.03	26.63	23.36
EMRT 3-2N	3/16	1/8	3.04	1/2	1/2	13.71	16.00	17.78	25.40	18.79
EMRT 4-2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	19.55	26.92	18.79
EMRT 4-4N	1/4	1/4	4.82	1/2	9/16	15.24	17.78	22.35	29.71	23.36
EMRT 5-2N	5/16	1/8	4.82	5/8	5/8	16.25	18.54	23.11	30.48	20.82
EMRT 6-4N	3/8	1/4	4.82	5/8	11/16	16.76	19.30	25.90	33.27	25.40
EMRT 6-6N	3/8	3/8	7.11	5/8	11/16	16.76	19.30	25.90	36.06	28.19
EMRT 8-6N	1/2	3/8	9.65	13/16	7/8	22.86	21.84	25.90	36.06	28.19
EMRT 8-8N	1/2	1/2	10.41	13/16	7/8	22.86	21.84	25.90	36.06	33.02
EMRT 10-8N	5/8	1/2	11.93	1	1	24.38	21.84	28.70	38.86	35.81
EMRT 12-12N	3/4	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83

\*ISO Tapered Threads are available upon request

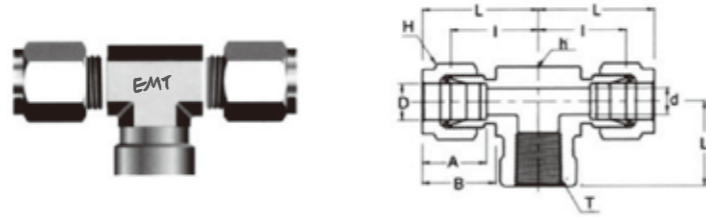
Connects Metric Tubes To Female ISO Tapered Thread

Part No.	Tube O.D. D(mm)	T R(PT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EMRT 3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
EMRT 3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
EMRT 4M-2R	4	1/8	2.4	12.7	12	13.7	6.1	18.8	25.4	18.8
EMRT 6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
EMRT 6M-4R	6	1/4	4.8	14.2	14	15.3	17.7	19.6	27.0	23.4
EMRT 8M-2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
EMRT 8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
EMRT 10M-4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	28.2
EMRT 10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	28.2
EMRT 12M-4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
EMRT 12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
EMRT 12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
EMRT 16M-6R	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.0
EMRT 16M-8R	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
EMRT 20M-12R	20	3/4	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7

\*ISO Tapered Threads are available upon request

Note: The material is stainless steel,if ordering brass,please end with"ee",e.g.eosc-mm-ee,indicating brass material.

**EFBT  
Female Branch Tee**



Connects Fractional Tubes To Male NPT Thread

Part No.	Tube O.D. D(mm)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EFBT 2-2N	1/8	1/8	2.28	1/2	7/16	12.70	15.24	18.03	24.63	19.05
EFBT 4-2N	1/4	1/8	4.28	1/2	9/16	15.24	17.78	19.55	26.92	19.05
EFBT 4-4N	1/4	1/4	4.28	11/16	9/16	15.24	17.78	22.35	29.71	22.35
EFBT 6-4N	3/8	1/4	7.11	11/16	11/16	16.76	19.30	23.87	31.24	22.35
EFBT 6-6N	3/8	3/8	7.11	13/16	11/16	16.76	19.30	25.90	33.27	22.35
EFBT 6-8N	3/8	1/2	7.11	1	11/16	16.76	19.30	28.70	36.07	28.45
EFBT 8-4N	1/2	1/4	10.41	13/16	7/8	22.86	21.84	25.90	36.06	22.35
EFBT 8-6N	1/2	3/8	10.41	13/16	7/8	22.86	21.84	25.90	36.06	22.35
EFBT 8-8N	1/2	1/2	10.41	1	7/8	22.86	21.84	28.70	38.86	28.44
EFBT 10-8N	5/8	1/2	12.70	1	1	24.38	21.84	28.70	38.86	28.44
EFBT 12-12N	3/4	3/4	15.74	1-3/8	1-1/8	24.38	21.84	34.54	44.70	31.75
EFBT 16-12N	1	3/4	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02	31.75
EFBT 16-16N	1	1	22.35	1-11/16	1-1/2	31.24	26.41	41.40	53.59	38.10

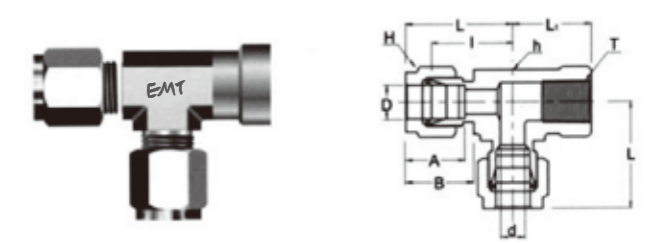
Connects Metric Tubes To Female NPT Thread

Part No.	Tube O.D. D(mm)	T R(PT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EFBT 6M-2R	6	1/8	4.8	12.70	14	15.3	17.7	19.6	27.0	19.0
EFBT 6M-4R	6	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.4
EFBT 6M-6R	6	3/8	4.8	20.63	14	15.3	17.7	24.4	31.7	22.4
EFBT 6M-8R	6	1/2	4.8	25.40	14	15.3	17.7	27.2	34.5	28.4
EFBT 8M-2R	8	1/8	6.4	15.87	16	16.2	18.6	22.4	29.9	19.0
EFBT 8M-4R	8	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.4
EFBT 8M-6R	8	3/8	6.4	20.63	16	16.2	18.6	25.2	32.4	22.4
EFBT 8M-8R	8	1/2	6.4	25.40	16	16.2	18.6	28.0	35.2	28.4
EFBT 10M-4R	10	1/4	7.9	20.63	19	17.2	19.5	25.9	33.5	22.4
EFBT 10M-6R	10	3/8	7.9	20.63	19	17.2	19.5	26.2	33.3	22.4
EFBT 10M-8R	10	1/2	9.5	25.40	19	17.2	19.5	25.9	33.6	22.4
EFBT 12M-4R	12	1/4	9.5	20.63	22	22.8	22.0	25.9	36.0	22.4
EFBT 12M-6R	12	3/8	9.5	20.63	22	22.8	22.0	27.8	36.0	22.4
EFBT 12M-8R	12	1/2	9.5	25.40	22	22.8	22.0	29.7	40.0	28.4
EFBT 16M-8R	16	1/2	12.7	25.40	25	24.4	22.0	28.7	38.8	28.4

\*ISO Tapered Threads are available upon request

Note : The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.

**EFRT  
Female Run Tee**



Connects Fractional Tubes To Male NPT Thread

Part No.	Tube O.D. D(mm)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EFRT 2-2N	1/8	1/8	2.28	1/2	7/16	12.70	15.24	18.03	24.63	19.05
EFRT 4-2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	19.55	26.93	19.05
EFRT 4-4N	1/4	1/4	4.82	11/16	9/16	15.24	17.78	22.35	29.71	22.35
EFRT 6-4N	3/8	1/4	7.11	11/16	11/16	16.76	19.30	23.87	31.24	22.35
EFRT 8-6N	1/2	3/8	10.41	13/16	7/8	22.86	21.84	25.90	36.06	22.35
EFRT 8-8N	1/2	1/2	10.41	1	7/8	22.86	21.84	28.70	39.87	28.44
EFRT 12-12N	3/4	3/4	15.74	1-3/8	1-1/8	24.38	21.84	34.54	44.70	31.75
EFRT 16-12N	1	3/4	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02	31.75
EFRT 16-16N	1	1	22.35	1-11/16	1-1/2	31.24	26.41	41.40	53.59	38.10

Connects Metric Tubes To Female NPT Thread

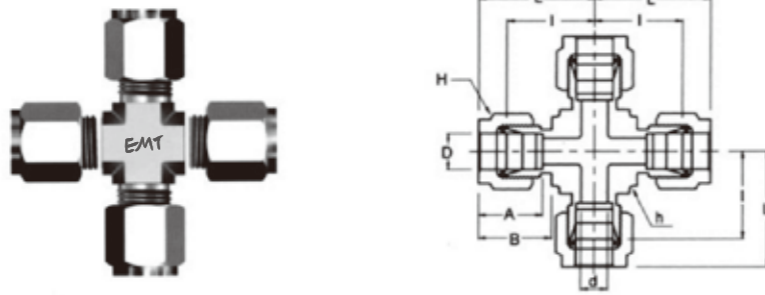
Part No.	Tube O.D. D(mm)	T (NPT)	d Min	Width Across Flat		A	B	I	L	L1
				h	H					
EFRT 6M-2N	6	1/8	4.8	12.70	14	15.3	17.7	19.6	27.0	19.0
EFRT 6M-4N	6	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.4
EFRT 6M-8N	6	1/2	4.8	25.40	14	15.3	17.7	27.2	34.5	28.4
EFRT 8M-2N	8	1/8	6.4	15.87	16	16.2	18.6	22.4	29.9	19.0
EFRT 8M-4N	8	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.4
EFRT 8M-6N	8	3/8	6.4	20.63	16	16.2	18.6	25.2	32.4	22.4
EFRT 8M-8N	8	1/2	6.4	25.40	16	16.2	18.6	28.0	35.2	28.4
EFRT 12M-4N	12	1/4	9.5	20.63	22	22.8	22.0	25.9	33.5	22.4
EFRT 12M-6N	12	3/8	9.5	20.63	22	22.8	22.0	25.9	36.0	22.4
EFRT 12M-8N	12	1/2	9.5	26.98	22	22.8	22.0	29.7	40.0	28.4
EFRT 16M-8N	16	1/2	12.7	25.40	25	24.4	22.0	29.7	38.8	28.4

\*ISO Tapered Threads are available upon request

Note : The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.



**EMC  
Union Cross**



**Connects Fractional Tubes**

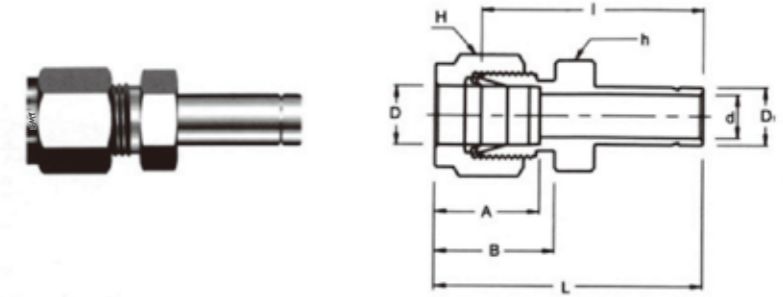
Part No.	Tube O.D. D(mm)	d Min	Width Across Flat		A	B	I	L
			h	H				
EMC-1	1/16	1.27	3/8	5/16	8.63	10.92	14.00	18.03
EMC-2	1/8	2.28	3/8	7/16	12.70	15.24	15.74	22.35
EMC-3	3/16	3.04	1/2	1/2	13.71	16.00	18.54	25.14
EMC-4	1/4	4.82	1/2	9/16	15.24	17.78	19.55	26.92
EMC-5	5/16	6.35	5/8	5/8	16.25	18.54	22.35	29.71
EMC-6	3/8	7.11	5/8	11/16	16.76	19.30	23.11	30.48
EMC-8	1/2	10.41	13/16	7/8	22.86	21.84	25.90	36.06
EMC-10	5/8	12.70	15/16	1	24.38	21.84	27.94	38.80
EMC-12	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87
EMC-14	7/8	18.28	1-3/8	1-1/4	25.90	21.84	34.54	44.70
EMC-16	1	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02

**Connects Metric Tubes**

Part No.	Tube O.D. D(mm)	d Min	Width Across Flat		A	B	I	L
			h	H				
EMC-3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
EMC-6M	6	4.8	12.7	14	16.3	17.7	19.6	27.0
EMC-8M	8	6.4	15.9	16	16.2	18.6	22.4	29.9
EMC-10M	10	7.9	20.6	19	17.2	19.5	25.9	33.5
EMC-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
EMC-16M	16	12.7	23.8	25	24.4	22.0	26.9	37.0
EMC-18M	18	15.1	27.0	30	24.4	22.0	28.2	38.3
EMC-20M	20	15.9	34.9	32	26.0	22.0	34.5	44.6
EMC-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1

Note : The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.

**ER  
Reducer**

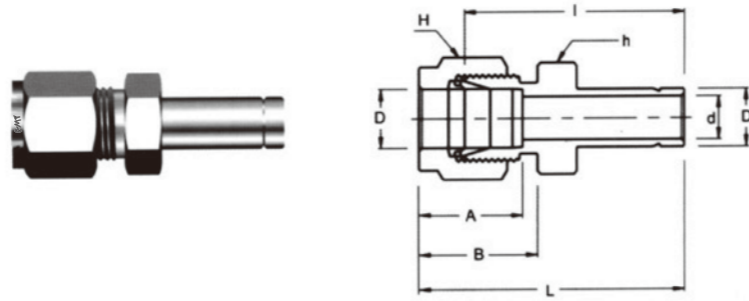


**Connects Fractional Tubes To Fractional EMT Port**

Part No.	Tube O.D.		d Min	Width Across Flat		A	B	I	L
	D	D1		h	H				
ER 2-1	1/8	1/16	0.76	7/16	7/16	12.70	15.24	22.35	28.95
ER 2-2	1/8	1/8	2.03	7/16	7/16	12.70	15.24	26.92	33.52
ER 2-3	1/8	3/16	2.28	7/16	7/16	12.70	15.24	27.68	34.29
ER 2-4	1/8	1/4	2.28	7/16	7/16	12.70	15.24	29.46	36.06
ER 2-6	1/8	3/8	2.28	7/16	7/16	12.70	15.24	30.98	37.59
ER 2-8	1/8	1/2	2.28	9/16	7/16	12.70	15.24	37.59	44.19
ER 3-2	3/16	1/8	2.03	7/16	1/2	13.71	16.00	28.19	34.79
ER 3-4	3/16	1/4	3.04	7/16	1/2	13.71	16.00	30.48	37.08
ER 4-2	1/4	1/8	2.03	1/2	9/16	15.24	17.78	29.46	36.83
ER 4-3	1/4	3/16	3.04	1/2	9/16	15.24	17.78	30.22	37.59
ER 4-4	1/4	1/4	4.82	1/2	9/16	15.24	17.78	31.75	39.11
ER 4-5	1/4	5/16	4.82	1/2	9/16	15.24	17.78	32.51	39.87
ER 4-6	1/4	3/8	4.82	1/2	9/16	15.24	17.78	33.27	40.64
ER 4-8	1/4	1/2	4.82	9/16	9/16	15.24	17.78	38.86	46.22
ER 4-10	1/4	5/8	4.82	11/16	9/16	15.24	17.78	40.64	48.00
ER 4-12	1/4	3/4	4.82	13/16	9/16	15.24	17.78	41.40	47.75
ER 5-6	5/16	3/8	6.35	9/16	5/8	16.25	18.54	34.54	41.91
ER 5-8	5/16	1/2	6.35	9/16	5/8	16.25	18.54	40.13	47.49
ER 6-4	3/8	1/4	4.82	5/8	11/16	16.76	19.30	34.03	41.40
ER 6-6	3/8	3/8	7.11	5/8	11/16	16.76	19.30	35.81	43.18
ER 6-8	3/8	1/2	7.11	5/8	11/16	16.76	19.30	41.14	48.51
ER 6-10	3/8	5/8	7.11	11/16	11/16	16.76	19.30	42.92	50.29
ER 6-12	3/8	3/4	7.11	13/16	11/16	16.76	19.30	42.92	50.29
ER 8-4	1/2	1/4	4.82	13/16	7/8	22.86	21.84	34.79	44.95
ER 8-6	1/2	3/8	7.11	13/16	7/8	22.86	21.84	36.57	46.73
ER 8-8	1/2	1/2	9.90	13/16	7/8	22.86	21.84	42.16	52.32
ER 8-10	1/2	5/8	10.41	13/16	7/8	22.86	21.84	43.68	53.84
ER 8-12	1/2	3/4	10.41	13/16	7/8	22.86	21.84	50.03	53.84
ER 8-16	1/2	1	10.41	1-1/16	7/8	22.86	21.84	44.45	60.19
ER 10-12	5/8	3/4	12.70	15/16	1	24.38	21.84	45.97	54.61
ER 10-14	5/8	7/8	12.70	15/16	1	24.38	21.84	44.45	56.13
ER10-16	5/8	1	12.70	1-1/16	1	24.38	21.84	50.80	60.96
ER 12-8	3/4	1/2	9.90	1-1/16	1-1/8	24.38	21.84	44.45	54.61
ER 12-16	3/4	1	15.74	1-1/16	1-1/8	24.38	21.84	52.32	62.48

Note : The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.

**ER Reducer**

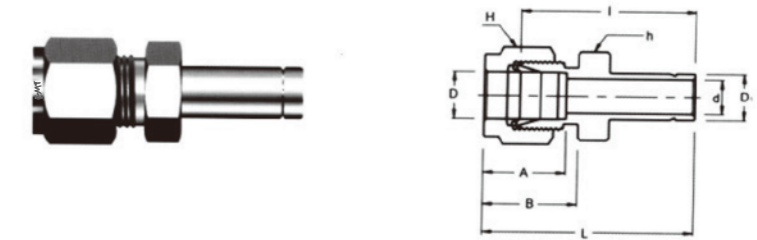


Connects Metric Tubes To Metric EMT Port

Part No.	Tube O.D.		d Min	Width Across Flat		A	B	I	L
	D	D1		h	H				
ER 3M-4M	3	4	2.4	12	12	12.9	15.3	28.4	35.0
ER 3M-6M	3	6	2.4	12	12	12.9	15.3	29.5	36.1
ER 3M-10M	3	10	2.4	14	12	12.9	15.3	31.8	38.4
ER 4M-6M	4	6	2.4	12	12	13.7	16.1	30.5	37.1
ER 6M-3M	6	3	1.8	14	14	15.3	17.7	29.5	36.9
ER 6M-8M	6	8	4.8	14	14	15.3	17.7	32.5	36.9
ER 6M-10M	6	10	4.8	14	14	15.3	17.7	33.3	40.7
ER 6M-12M	6	12	4.8	14	14	15.3	17.7	38.9	46.3
ER 8M-6M	8	6	4.6	15	16	16.2	18.6	32.8	40.3
ER 8M-10M	8	10	6.4	15	16	16.2	18.6	34.5	42.0
ER 8M-12M	8	12	6.4	15	16	16.2	18.6	40.1	47.6
ER 10M-6M	10	6	4.6	18	19	17.2	19.5	34.8	42.4
ER 10M-8M	10	10	6.4	18	19	17.2	19.5	35.8	43.4
ER 10M-12M	10	12	7.9	18	19	17.2	19.5	42.2	49.8
ER 10M-15M	10	15	7.9	18	19	17.2	19.5	43.7	51.3
ER 10M-18M	10	18	7.9	22	19	17.2	22.0	43.7	51.3
ER 12M-6M	12	6	4.6	22	22	22.8	22.0	34.8	44.9
ER 12M-8M	12	8	6.4	22	22	22.8	22.0	35.8	45.9
ER 12M-10M	12	10	7.7	22	22	22.8	22.0	36.6	46.7
ER 12M-16M	12	16	9.5	22	22	22.8	22.0	43.7	53.8
ER 12M-18M	12	18	9.5	22	22	22.8	22.0	43.7	53.8
ER 12M-20M	12	20	9.5	22	22	22.8	22.0	46.0	56.1
ER 12M-22M	12	22	9.5	24	22	22.8	22.0	46.0	56.1
ER 12M-25M	12	25	9.5	27	22	22.8	22.0	52.3	62.4
ER 16M-12M	16	12	9.1	24	25	24.4	22.0	42.9	53.0
ER 18M-12M	18	12	9.1	27	30	24.4	22.0	44.5	54.6
ER 18M-16M	18	16	12.7	27	30	24.4	22.0	46.0	56.1
ER 18M-20M	18	20	15.1	27	30	24.4	22.0	47.5	57.6
ER 18M-22M	18	22	15.1	27	30	24.4	22.0	47.5	57.6
ER 18M-25M	18	25	15.1	27	30	24.4	22.0	52.3	62.4
ER 20M-16M	20	16	12.7	30	32	26.0	22.0	47.8	57.9
ER 20M-18M	20	18	13.9	30	32	26.0	22.0	47.8	57.9
ER 20M-22M	20	22	15.8	30	32	26.0	22.0	49.3	59.4
ER 20M-25M	20	25	15.8	30	32	26.0	22.0	54.1	64.2
ER 22M-18M	22	18	13.9	30	32	26.0	22.0	47.8	57.9
ER 22M-20M	22	20	15.1	30	32	26.0	22.0	49.3	59.4
ER 22M-25M	22	25	18.3	30	32	26.0	22.0	54.1	64.2
ER 25M-18M	25	18	13.9	35	38	31.3	26.5	50.8	63.1
ER 25M-20M	25	20	15.1	35	38	31.3	26.5	52.3	64.6

Note : The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.

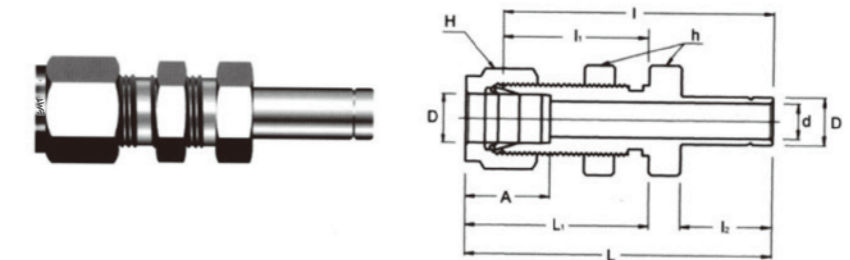
**ER Reducer**



Connects Fractional Tubes Ti Fractional EMT Port

Part No.	Tube O.D.		d Min	Width Across Flat		A	B	I	L
	D	D1		h	H				
ER 3M-2	3	1/8	2.0	12	12	12.9	15.3	26.9	33.5
ER 3M-4	3	1/4	2.4	12	12	12.9	15.3	29.5	36.1
ER 6M-4	6	1/4	4.8	14	14	15.3	17.7	31.8	39.2
ER 6M-5	6	5/16	4.8	14	14	15.3	17.7	32.5	39.9
ER 6M-6	6	3/8	4.8	14	14	15.3	17.7	33.3	40.7
ER 6M-8	6	1/2	4.8	14	14	15.3	17.7	38.9	46.3
ER 8M-6	8	3/8	6.4	15	16	16.2	18.6	34.5	42.0
ER 8M-8	8	1/2	6.4	15	16	16.2	18.6	40.1	47.6
ER 10M-6	10	3/8	7.1	18	19	17.2	19.5	36.6	44.2
ER 10M-8	10	1/2	7.9	18	19	17.2	19.5	42.2	49.8
ER 12M-8	12	1/2	9.5	22	22	22.8	22.0	42.2	52.3
ER 12M-12	12	3/4	9.5	22	22	22.8	22.0	43.7	53.8
ER 18M-12	18	3/4	15.1	27	30	24.4	22.0	46.0	56.1
ER 18M-16	18	1	15.1	27	30	24.4	22.0	52.3	62.4

**EBR Bulkhead Reducing**

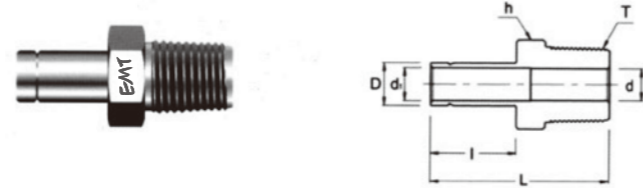


Connects Fractional Tubes Ti Fractional EMT Port

Part No.	Tube O.D. O.D D(mm)	d Min	Width Across Flat		A	I	I1	I2	L	L1	Panel Hole Drill Size	Panel Max Thickness
			h	H								
EBR 2-2	1/8	2.03	1/2	7/16	12.70	42.92	24.63	13.46	49.53	31.24	8.33	12.70
EBR 4-4	1/4	4.82	5/8	9/16	15.24	48.51	26.16	15.74	55.88	33.52	11.50	10.16
EBR 6-6	3/8	7.11	3/4	11/16	16.76	53.84	29.46	17.52	61.21	36.83	14.68	11.17
EBR 8-8	1/2	10.41	15/16	7/8	22.86	62.73	31.75	23.11	72.89	41.91	19.44	12.70
EBR 10-10	5/8	12.70	1-1/16	1	24.38	24.38	32.51	24.70	75.18	42.67	22.62	12.70
EBR 16-16	1	20.32	1-5/8	1-1/8	31.24	31.24	45.21	31.70	100.33	57.40	33.73	19.05

Note : The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.

## EMA Male Adapter



### Connects Metric EMT Port To Female NPT Thread

Part No.	Tube O.D. D(in)	T (NPT)	d Min	d1	Width Across Flat h(in)	I	L
EMA 2-2N	1/8	1/8	4.82	2.28	7/16	13.45	29.50
EMA 2-4N	1/8	1/4	7.11	2.28	9/16	13.45	34.80
EMA 3-2N	3/16	1/8	4.82	3.04	7/16	14.20	30.22
EMA 3-4N	3/16	1/4	7.11	3.04	9/16	4.20	35.56
EMA 4-2N	1/4	1/8	4.82	4.82	7/16	15.75	31.80
EMA 4-4N	1/4	1/4	4.82	4.82	9/16	15.75	37.08
EMA 4-6N	1/4	3/8	4.82	4.82	11/16	15.75	37.84
EMA 4-8N	1/4	1/2	4.82	4.82	7/8	15.75	43.43
EMA 5-2N	5/16	1/8	4.82	6.35	7/16	16.80	32.76
EMA 5-4N	5/16	1/4	7.11	6.35	9/16	16.80	38.10
EMA 6-2N	3/8	1/8	7.11	7.11	7/16	17.50	33.50
EMA 6-4N	3/8	1/4	7.11	7.11	9/16	17.50	38.90
EMA 6-6N	3/8	3/8	7.11	7.11	11/16	17.50	39.60
EMA 6-8N	3/8	1/2	9.90	7.11	7/8	17.50	45.20
EMA 8-4N	1/2	1/4	9.90	9.90	9/16	23.20	44.50
EMA 8-6N	1/2	3/8	9.90	9.90	11/16	23.20	45.20
EMA 8-8N	1/2	1/2	11.94	9.90	7/8	23.20	50.80
EMA 10-6N	5/8	3/8	14.98	12.70	11/16	24.70	47.40
EMA 10-8N	5/8	1/2	11.94	12.70	7/8	24.70	52.30
EMA 10-12N	5/8	3/4	14.98	12.70	1-1/16	24.70	52.30
EMA 12-8N	3/4	1/2	11.94	14.98	7/8	24.70	52.30
EMA 12-12N	3/4	3/4	14.98	14.98	1-1/16	24.70	52.30
EMA 12-16N	3/4	1	20.32	14.98	1-3/8	24.70	57.91
EMA 14-12N	7/8	3/4	14.98	17.27	1-1/16	26.70	54.30
EMA 16-12N	1	3/4	15.74	20.32	1-1/16	31.70	58.70
EMA 16-16N	1	1	20.32	20.32	1-3/8	31.70	60.00

\*ISO Tapered Threads are available upon request

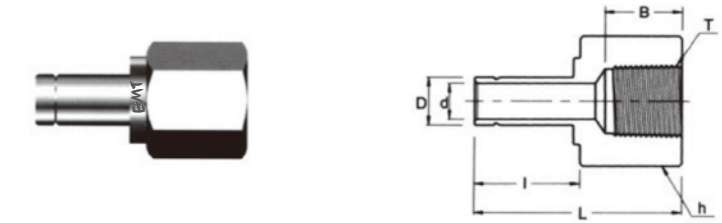
### Connects Metric EMT Port To Female NPT Thread

Part No.	Tube O.D(D)(mm)	T(NPT)	d(Min)	d1	Width Across Flat(h)	I	L
EMA 6M-2N	6	1/8	4.6	4.6	12	15.75	32.8
EMA 6M-4N	6	1/4	4.6	4.6	14	15.75	38.1
EMA 8M-4N	8	1/4	6.3	6.3	14	16.50	39.1
EMA 10M-4N	10	1/4	7.7	7.7	14	17.50	39.9
EMA 10M-6N	10	3/8	7.7	7.7	18	17.50	40.6
EMA 10M-8N	10	1/2	11.9	7.7	22	17.50	46.2
EMA 12M-4N	12	1/4	7.1	9.1	16	23.50	46.5
EMA 12M-8N	12	1/2	11.9	7.1	22	23.50	52.0
EMA 18M-12N	18	3/4	15.9	13.9	27	24.90	54.8

\*ISO Tapered Threads are available upon request

Note : The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.

## EFA Female Adapter



### Connects Fractional EMT Port To Male NPT Thread

Part No.	Tube O.D. D(in)	T R(PT)	d Min	Width Across Flat h(in)	I	L
EFA 2-2N	1/8	1/8	2.28	9/16	13.45	31.50
EFA 2-4N	1/8	1/4	2.28	3/4	13.45	35.30
EFA 3-2N	3/16	1/8	3.04	9/16	14.20	32.00
EFA 3-4N	3/16	1/4	3.04	3/4	14.20	35.81
EFA 4-2N	1/4	1/8	4.82	9/16	15.75	33.02
EFA 4-4N	1/4	1/4	4.82	3/4	15.75	37.10
EFA 4-6N	1/4	3/8	4.82	7/8	15.75	39.37
EFA 4-8N	1/4	1/2	4.82	1-1/16	15.75	45.50
EFA 5-2N	5/16	1/8	6.35	9/16	16.80	34.29
EFA 5-4N	5/16	1/4	6.35	3/4	16.80	37.59
EFA 6-2N	3/8	1/8	7.11	9/16	17.50	34.29
EFA 6-4N	3/8	1/4	7.11	3/4	17.50	38.10
EFA 6-6N	3/8	3/8	7.11	7/8	17.50	40.38
EFA 6-8N	3/8	1/2	7.11	1-1/16	17.50	46.73
EFA 8-4N	1/2	1/4	9.90	3/4	23.20	43.43
EFA 8-6N	1/2	3/8	9.90	7/8	23.20	45.46
EFA 8-8N	1/2	1/2	9.90	1-1/16	23.20	51.80
EFA 10-6N	5/8	3/8	12.70	7/8	24.70	48.26
EFA 10-8N	5/8	1/2	12.70	1-1/16	24.70	53.08
EFA 12-8N	3/4	1/2	14.98	1-1/16	24.70	52.83
EFA 12-12N	3/4	3/4	14.98	1-5/16	24.70	54.86
EFA 12-16N	3/4	1	14.98	1-5/8	24.70	58.42
EFA 14-12N	7/8	3/4	17.27	1-5/16	26.70	57.15
EFA 16-12N	1	3/4	20.32	1-5/16	31.70	60.70
EFA 16-16N	1	1	20.32	1-5/8	31.70	64.26

\*ISO Tapered Threads are available upon request

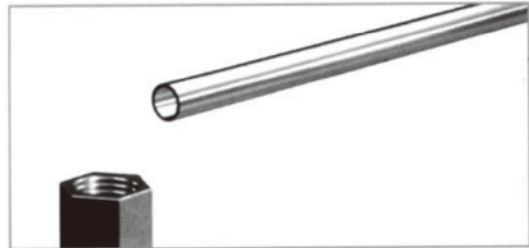
### Connects Metric EMT Port To Female NPT Thread

Part No.	Tube O.D(D)(mm)	T(NPT)	d(Min)	Width Across Flat(h)	I	L
EFA 3M-2N	3	1/8	1.8	14	13.15	31.2
EFA 6M-2N	6	1/8	4.6	14	15.75	32.5
EFA 6M-4N	6	1/4	4.6	19	15.75	37.1
EFA 8M-4N	8	1/4	6.3	19	16.50	37.6
EFA 10M-4N	10	1/4	7.7	19	17.50	38.1
EFA 10M-6N	10	3/8	7.7	22	17.50	40.1
EFA 10M-8N	10	1/2	7.7	27	17.50	46.5
EFA 12M-4N	12	1/4	9.1	19	23.50	43.7
EFA 12M-6N	12	3/8	9.1	22	23.50	46.0
EFA 12M-8N	12	1/2	9.1	27	23.50	52.3
EFA 18M-12N	18	3/4	13.9	32	24.90	54.8

\*ISO Tapered Threads are available upon request

Note: The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.

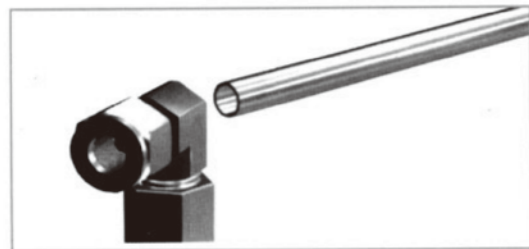
## EMT Adapter Solve Alignment Problems



1. Required installation is to connect tubing in direction shown, to a female port.



3. To connect this situation, merely tighten pipe thread of male adapter into female port.



2. With pipe connection tight, the male elbow is pointing in the wrong direction for desired tubing run.



4. Connect union elbow to adapter by tightening EMT connection with wrench while holding elbow pointing in desired direction Then insert tubing into the other end of the Union Elbow and connect tubing

Width Across Flat(h)

T(NPT)



### Connects Fractional EMT Ports

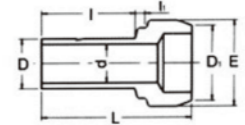
Part No.	Tube O.D(D)(in)	d(Min)	E	I	L
EPC-2	1/8	2.28	6.09	15.75	22.35
EPC-4	1/4	4.82	9.39	18.79	24.63
EPC-5	5/16	6.35	10.92	20.06	25.90
EPC-6	3/8	7.11	12.70	20.32	26.16
EPC-8	1/2	9.90	15.74	25.90	35.81
EPC-12	3/4	14.98	22.09	27.68	37.33
EPC-16	1	20.32	28.44	34.54	48.00

### Connects Metric EMT Ports

Part No.	Tube O.D(D)(mm)	d(Min)	E	I	L
EPC-3M	3	2.1	6.0	15.7	22.2
EPC-6M	6	4.4	9.0	18.7	24.6
EPC-8M	8	6.3	11.0	20.0	25.9
EPC-10M	10	8.2	13.1	20.2	26.1
EPC-12M	12	9.1	15.0	26.0	35.8
EPC-16M	16	12.7	19.0	27.6	37.4

Note: The material is stainless steel,if ordering brass,please end with"ee",e.g.eosc-mm-ee,indicating brass material.

## ERPC Reducing Port Connector

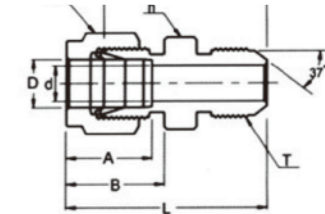


Connects Metric EMT Port To Female NPT Thread

Part No.	Tube O.D D(in)	ReducedTube O.D D(in)	d	E	I	I1	L
ERPC 2-1	1/8	1/16	0.76	6.09	8.63	2.03	17.27
ERPC 4-1	1/4	1/16	0.76	9.39	8.63	3.55	18.03
ERPC 4-2	1/4	1/8	2.28	9.39	13.46	3.30	22.60
ERPC 6-2	3/8	1/8	2.28	12.70	13.46	3.81	21.11
ERPC 6-4	3/8	1/4	4.82	12.70	15.74	3.30	24.89
ERPC 8-4	1/2	1/4	4.82	15.74	15.74	3.81	29.21
ERPC 8-6	1/2	3/8	7.11	15.74	17.52	3.30	30.48
ERPC 12-8	3/4	1/2	9.90	22.09	24.38	3.81	37.84
ERPC 16-8	1	1/2	9.90	28.44	24.38	4.82	42.67
ERPC 16-12	1	3/4	14.98	28.44	25.90	4.06	43.43

\*ISO Tapered Threads are available upon request

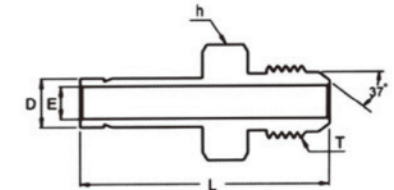
## EAU An Union



Connects Fractional Tubes To An Flared Tubes

Part No.	Tube O.D D(in)	AN Tube O.D D(in)	Straighet Thread T(U)	d Min	WidthAcross Flat		A	B	I	L
					h(in)	H(in)				
EAU2-2U	1/8	1/8	5/16-24	1.52	7/16	7/16	12.70	15.24	26.65	32.25
EAU2-4U	1/8	1/4	7/16-20	2.28	1/2	7/16	12.70	15.24	28.44	35.05
EAU4-4U	1/4	1/4	7/16-20	4.31	1/2	9/16	15.24	17.78	30.22	37.59
EAU5-5U	5/16	5/16	1/2-20	5.84	9/16	5/8	16.25	18.54	30.98	38.35
EAU6-4U	3/8	1/4	7/16-20	4.31	5/8	11/16	16.76	19.30	32.25	39.62
EAU6-6U	3/8	3/8	9/16-18	7.31	5/8	11/16	16.76	19.30	32.25	39.62
EAU8-8U	1/2	1/2	3/4-16	9.90	13/16	7/8	22.86	21.84	35.81	45.97
EAU12-12U	3/4	3/4	1-1/16-12	15.49	1-1/8	1-1/8	24.38	21.84	43.18	53.34
EAU16-16U	1	1	1-5/16-12	21.33	1-3/8	1-1/2	31.24	26.41	49.27	61.46

## EAA An Adapter

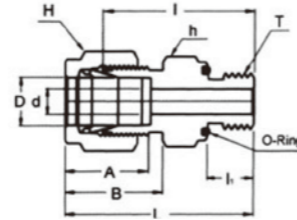


Connects Fractional EMT Port To Male AN

Part No.	Tube O.D D(in)	AN Tube Thread T(U)	Straighet Thread T(U)	WidthAcross Flat h(in)	E	L
EAA4-4U	1/4	1/4	7/16-20	1/2	4.8/2	37.08
EAA6-4U	3/8	1/4	7/16-20	1/2	7.11	38.86
EAA6-6U	3/8	3/8	9/16-18	5/8	7.11	39.62
EAA8-8U	1/2	1/2	3/4-16	13/16	9.90	48.51
EAA12-12U	3/4	3/4	1-1/16-12	1-1/8	14.98	56.13
EAA16-16U	1	1	15/16-12	1-3/8	20.32	65.53

Note: The material is stainless steel,if ordering brass,please end with"ee",e.g.eosc-mm-ee,indicating brass material.

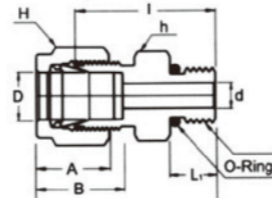
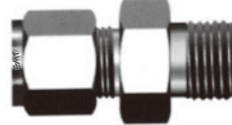
# EOSC O-Seal Straight Thread Connector



Connects Fractional Tube To Female Straight Thread

Part No.	Tube O.D D(in)	Straight Thread T(U)	d Min	WidthAcross Flat		A	B	I	I1	L	O-RING Uniform Size Number
				h(in)	H(in)						
EOSC2-2U	1/8	5/16-24	2.28	9-16	7/16	12.70	15.24	26.16	8.63	32.76	-011
EOSC3-3U	3/16	3/8-24	3.05	5/8	1/2	13.71	16.00	27.68	9.65	34.29	-012
EOSC4-4U	1/4	7/16-20	4.82	3/4	9/16	15.24	17.78	30.98	10.41	38.35	-111
EOSC5-5U	5/16	1/2-20	6.35	7/8	5/8	16.25	18.54	33.27	11.17	40.64	-112
EOSC6-6U	3/8	9/16-18	7.11	15/16	11/16	16.76	19.30	35.05	11.93	42.41	-114
EOSC8-8U	1/2	3/4-16	10.41	1-1/8	7/8	22.86	21.84	35.81	11.93	45.97	-116
EOSC12-12U	3/4	1-1/16-12	15.75	1-1/2	1-1/8	24.38	21.84	42.16	14.22	52.32	-215
EOSC16-16U	1	1-5/16-12	22.35	1-3/4	1-1/2	31.34	26.41	45.97	14.22	58.16	-219

# ESMC SAE/MS Male Connector

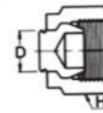


Connects Fractional Tubes To SAE/MS Straight Thread Boss

Part No.	Tube O.D D(in)	Straight Thread T(U)	d Min	WidthAcross Flat		A	B	I	I1	L	O-RING Uniform Size Number
				h(in)	H(in)						
ESMC2-2U	1/8	5/16-24	2.28	7/16	7/16	12.70	15.24	23.36	7.62	29.97	3-902
ESMC4-4U	1/4	7/16-20	4.82	9/16	9/16	15.24	17.78	26.67	9.14	34.03	3-904
ESMC4-6U	1/4	9/16-18	4.82	11/16	9/16	15.24	17.78	28.19	9.90	35.56	3-906
ESMC4-8U	1/4	3/4-16	4.82	7/8	9/16	15.24	17.78	30.22	11.17	37.59	3-908
ESMC4-10U	1/4	7/8-14	4.82	1	9/16	15.24	17.78	33.27	12.70	40.64	3-910
ESMC5-5U	5/16	1/2-20	6.35	5/8	5/8	16.25	18.54	27.43	9.14	34.79	3-905
ESMC6-4U	3/8	7/16-20	5.08	5/8	11/16	16.76	19.30	28.19	9.14	35.56	3-904
ESMC6-6U	3/8	9/16-18	7.11	11/16	11/16	16.76	19.30	29.71	9.90	37.08	3-906
ESMC6-8U	3/8	3/4-16	7.11	7/8	11/16	16.76	19.30	31.75	11.17	39.11	3-908
ESMC6-10U	3/8	7/8-14	7.11	1	11/16	16.76	19.30	34.79	12.70	41.91	3-910
ESMC8-6U	1/2	9/16-18	7.11	13/16	7/8	22.86	21.84	28.95	9.90	44.95	3-906
ESMC8-8U	1/2	3/4-16	10.41	7/8	7/8	22.86	21.84	31.75	11.17	49.02	3-908
ESMC8-10U	1/2	7/8-14	10.41	1	7/8	22.86	21.84	34.79	12.70	41.91	3-910
ESMC8-12U	1/2	1-1/16-12	10.41	1-1/4	7/8	22.86	21.84	38.86	14.98	44.95	3-912
ESMC10-8U	5/8	3/4-16	10.66	15/16	1	24.38	21.84	31.75	11.17	49.02	3-908
ESMC10-10U	5/8	7/8-16	12.70	1	1	24.38	21.84	35.05	12.70	45.21	3-910
ESMC12-8U	3/4	3/4-16	10.66	1-1/16	1-1/8	24.38	21.84	35.81	11.17	45.97	3-908
ESMC12-12U	3/4	1-3/16-12	15.74	1-1/4	1-1/8	24.38	21.84	38.86	14.98	49.02	3-912
ESMC14-14U	7/8	1-3/16-12	18.28	1-3/8	1-1/4	25.390	21.84	38.86	14.98	49.02	3-912
ESMC16-12U	1	1-1/16-12	16.76	1-3/8	1-1/2	31.24	26.41	41.14	14.98	53.34	3-912
ESMC16-16U	1	1-5/16-12	22.35	1-1/2	1-1/2	31.24	26.41	42.16	14.98	54.34	3-916

Note: The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.

# EP Plug



Fractional

Part No.	Tube O.D D(in)	WidthAcross Flat H(in)	Part No.	Tube O.D D(in)	WidthAcross Flat H(in)
EP-2	1/8	7/16	EP-8	1/2	7/8
EP-3	3/16	1/2	EP-10	5/8	1
EP-4	1/4	9/16	EP-12	3/4	1-1/8
EP-5	5/16	5/8	EP-14	7/8	1-1/4
EP-6	3/8	11/16	EP-16	1	1-1/2

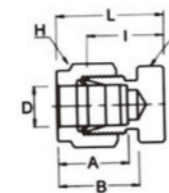
Plugs Unused Port of Metric NAI-LOK fittings

Metric

Part No.	Tube O.D D(in)	WidthAcross Flat H(in)	Part No.	Tube O.D D(in)	WidthAcross Flat H(in)
EP-2M	2	12	EP-15M	15	25
EP-3M	3	12	EP-16M	16	25
EP-4M	4	12	EP-18M	18	30
EP-6M	6	14	EP-20M	20	32
EP-8M	8	16	EP-22M	22	32
EP-10M	10	19	EP-25M	25	38
EP-12M	12	22			

Plugs Unused Port of Metric NAI-LOK fittings

# EC Cap



Connects Caps End of Fractional Tubes

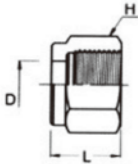
Part No.	Tube O.D D(in)	WidthAcross Flat		I	L
		h(in)	H(in)		
EC-1	1/16	5/16	5/16	8.63	10.92
EC-2	1/8	7/16	7/16	12.70	15.24
EC-3	3/16	7/16	1/2	13.71	16.00
EC-4	1/4	1/2	9/16	15.24	17.78
EC-5	5/16	9/16	5/8	16.25	18.54
EC-6	3/8	5/8	11/16	16.76	19.30
EC-8	1/2	13/16	7/8	22.86	21.84
EC-10	5/8	15/16	1	24.38	21.84
EC-12	3/4	1-1/16	1-1/8	24.38	21.84
EC-14	7/8	1-3/16	1-1/4	25.90	21.84
EC-16	1	1-3/8	1-1/2	31.24	26.41

Connect Metric Tubes

Part No.	Tube O.D D(in)	WidthAcross Flat		A	B	I	L	Part No.	Tube O.D D(in)	WidthAcross Flat		A	B	I	L
		h	H							h	H				
EC-2M	2	12	12	1.9	15.3	13.5	20.1	EC-15M	15	24	25	24.4	22.0	19.8	29.9
EC-3M	3	12	12	12.9	15.3	13.5	20.1	EC-16M	16	24	25	24.4	22.0	19.8	29.9
EC-4M	4	12	12	13.7	16.1	14.7	21.3	EC-18M	18	27	30	24.4	22.0	21.3	31.4
EC-6M	6	14	14	15.3	17.7	15.7	23.1	EC-20M	20	30	32	26.0	22.0	23.9	34.0
EC-8M	8	15	16	16.2	18.6	17.0	24.5	EC-22M	22	30	32	26.0	22.0	23.9	34.0
EC-10M	10	18	19	17.2	19.5	19.0	26.6	EC-25M	25	35	38	31.3	26.5	26.2	38.5
EC-12M	12	22	22	22.8	22.0	19.0	29.1								

Note: The material is stainless steel,if ordering brass,please end with“ee”,e.g.eosc-mm-ee,indicating brass material.

### EN Nut



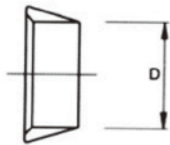
#### Fractional

Part No.	Tube O.D D(in)	WidthAcross Flat H	L	Part No.	Tube O.D D	WidthAcross Flat H	L
EN-1	1/18	5/16	7.90	EN-8	1/2	7/8	17.52
EN-2	1/8	7/16	11.93	EN-10	5/8	1	17.52
EN-3	3/16	1/2	11.93	EN-12	3/4	1-1/8	17.52
EN-4	1/4	9/16	12.70	EN-14	7/8	1-1/4	17.52
EN-5	5/16	5/8	13.46	EN-16	1	1-1/2	20.6
EN-6	3/8	11/16	14.22				

#### Metric

Part No.	Tube O.D D(in)	WidthAcross Flat H	L	Part No.	Tube O.D D	WidthAcross Flat H	L
EN-2M	2	12	11.9	EN-14M	14	25	17.4
EN-3M	3	12	11.9	EN-15M	15	25	17.4
EN-4M	4	12	11.9	EN-16M	16	25	17.4
EN-6M	6	14	12.7	EN-18M	18	30	17.4
EN-8M	8	16	13.5	EN-20M	20	32	17.4
EN-10M	10	19	15.1	EN-22M	22	32	17.4
EN-12M	12	22	17.4	EN-25M	25	38	20.6

### EFF Front Ferrule



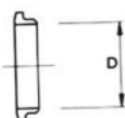
#### Fractional

Part No.	Tube O.D D(in)	Part No.	Tube O.D D(in)
EFF-1	1/16	EFF-8	1/2
EFF-2	1/8	EFF-10	5/8
EFF-3	3/16	EFF-12	3/4
EFF-4	1/4	EFF-14	7/8
EFF-5	5/16	EFF-16	1
EFF-6	3/8		

#### Metric

Part No.	Tube O.D D(in)	Part No.	Tube O.D D(in)
EFF-2M	2	EFF14M	14
EFF-3M	3	EFF-15M	15
EFF-4M	4	EFF-16M	16
EFF-6M	6	EFF-18M	18
EFF-8M	8	EFF-20M	20
EFF-10M	10	EFF-22M	22
EFF-12M	12	EFF-25M	25

### EBF Back Ferrule



#### Fractional

Part No.	Tube O.D D(in)	Part No.	Tube O.D D(in)	Part No.	Tube O.D D(in)
EBF-1	1/16	EBF-5	5/16	EBF-12	3/4
EBF-2	3/8	EBF-6	3/8	EBF-14	7/8
EBF-3	3/16	EBF-8	1/2	EBF-16	1
EBF-4	1/4	EBF-10	5/8		

#### Metric

Part No.	Tube O.D D(in)	Part No.	Tube O.D D(in)	Part No.	Tube O.D D(in)
EBF-2M	2	EBF-10M	10	EBF-18M	18
EBF-3M	3	EBF-12M	12	EBF-20M	20
EBF-4M	4	EBF-14M	14	EBF-22M	22
EBF-8M	8	EBF-15M	15	EBF-25M	25
		EBF-16M	16		

Note: The material is stainless steel,if ordering brass,please end with"ee",e.g.eosc-mm-ee,indicating brass material.

## Stainless Steel Tubing

### Imperial Sizes

- Standard instrumentation tubing
- Chemically cleaned and passivated tubing
- Thermocouple-cleaned tubing

### Features

- Available in sizes from 1/8 to 1 in. outside diameter; metric sizes available upon request



### Standard Instrumentation Tubing

#### Material Standards

Grade	UNS	SS	AFNOR	W.-NR.	ASTM
316/316L	S31603/S31603	2353	Z2CND17-13	1.4435	A213①/A269

① Nominal wall thickness, not minimum wall thickness.

### Chemical Composition

Element	Chromium	Nickel	Molybdenum	Carbon
Composition	16.0 to 18.0	12.5 to 14.0	2.50 to 3.00	max 0.030

### Pressure Ratings

See EMT Tubing Data,for complete pressure ratings.

### Ordering Information and Dimensions

Select an ordering number.

Tube OD in.	Nominal Wall Thickness	Ordering Number	Nominal Length m (ft)	Weight kg/m
316 / 316L				
1/8	0.028	EMT-KTG-3.175*0.7	(4-6) (19.7)	0.04
	0.035	EMT-KTG-3.175*0.89		0.05
1/4	0.035	EMT-KTG-6.35*0.89		0.12
	0.049	EMT-KTG-6.35*1.25		0.16
3/8	0.065	EMT-KTG-6.35*1.65		0.19
	0.035	EMT-KTG-9.52*0.89		0.19
1/2	0.049	EMT-KTG-9.52*1.25		0.25
	0.065	EMT-KTG-9.52*1.65		0.32
3/4	0.035	EMT-KTG-12.7*0.89		0.26
	0.049	EMT-KTG-12.7*1.25		0.35
	0.065	EMT-KTG-12.7*1.65		0.45
5/8	0.083	EMT-KTG-12.7*2.16		0.55
	0.049	EMT-KTG-15.87*1.25		0.45
3/4	0.065	EMT-KTG-15.87*1.65		0.58
	0.049	EMT-KTG-19.05*1.25	0.56	
1	0.065	EMT-KTG-19.05*1.65	0.71	
	0.083	EMT-KTG-25.4*2.16	1.2	

# Stainless Steel Tubing

Metric Sizes



### Features

- 3 to 25 mm outside diameter seamless tubing
- 316/316L stainless steel
- ASTM A213①/A269

① Nominal wall thickness, not minimum wall thickness.

### Material Standards

AISI	UNS	SS	AFNOR	W.-NR.
316 / 316L	S31603	2353	Z2CND17-13	1.4435

### Ordering Information and Dimensions

Select an ordering number.

Nominal OD mm	Nominal Wall Thickness	Ordering Number	Nominal Length	Weight kg/m	Allowable Working Pressure bar
3	0.5	EMT-GZKTG-3*0.5	6	0.021	340
	0.7	EMT-GZKTG-3*0.7		0.027	560
6	1.0	EMT-GZKTG-6*1		0.125	420
	1.5	EMT-GZKTG-6*1.5		0.169	710
8	1.0	EMT-GZKTG-8*1		0.175	310
	1.5	EMT-GZKTG-8*1.5		0.244	520
10	1.0	EMT-GZKTG-10*1		0.225	240
	1.5	EMT-GZKTG-10*1.5		0.319	400
12	1.0	EMT-GZKTG-12*1		0.275	200
	1.5	EMT-GZKTG-12*1.5		0.394	330
	2.0	EMT-GZKTG-12*2		0.500	470
16	1.0①	EMT-GZKTG-16*1		0.375	140
	1.5	EMT-GZKTG-16*1.5		0.507	230
	2.0	EMT-GZKTG-16*2		0.651	330
18	1.0①	EMT-GZKTG-18*1		0.425	120
	1.5	EMT-GZKTG-18*1.5		0.619	200
	2.0	EMT-GZKTG-18*2	0.801	290	
20	2.0	EMT-GZKTG-20*2	0.901	260	
22	2.0	EMT-GZKTG-22*2	1.00	230	
25	2.0①	EMT-GZKTG-25*2	1.15	200	
	2.5	EMT-GZKTG-25*2.5	1.41	260	

① Recommended for use with EMT tube fittings.

② Recommended for use with EMT tube fittings in gas service.

### Typical Chemical Composition

Chemical element	Chemical composition
Chromium	max0.03
Nickel	16.0 to 18.0
Molybdenum	12.0 to 14.0
Carbon	2.0 to 3.0

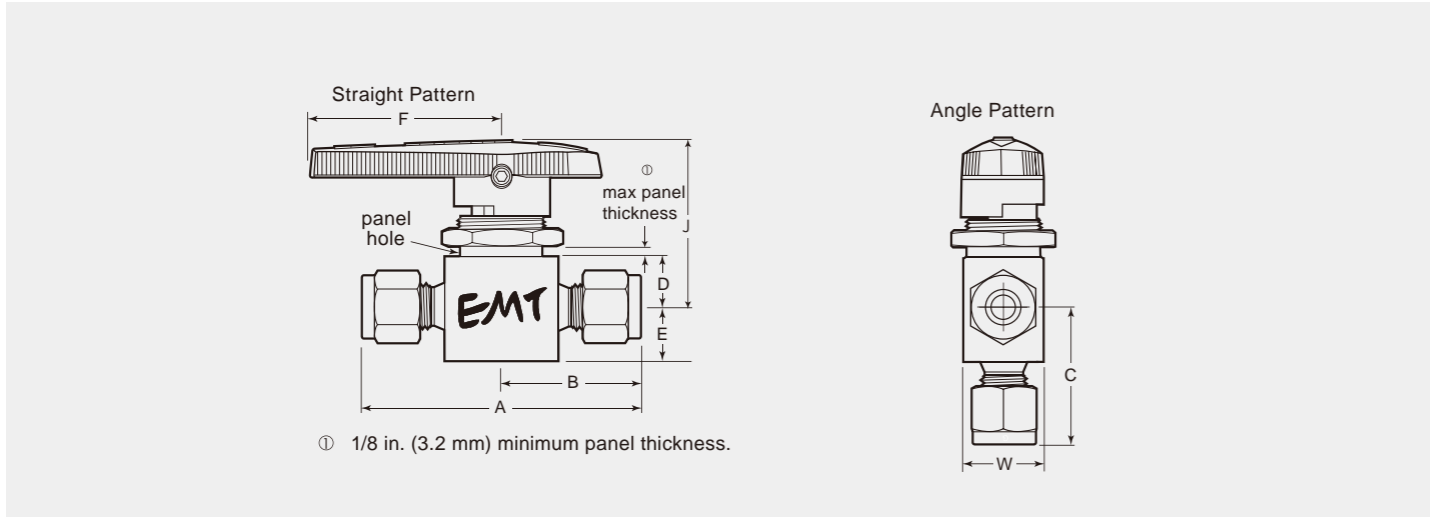
# One-Piece Instrumentation Ball Valves



- On-off, switching, and crossover flow paths
- Working pressures up to 1000-3000 psig
- Temperatures from +−53 to +148°C (−65 to +300°F)
- Environmental and heated-process applications
- 1/8 to 3/4 in. and 3 to 12 mm end connections

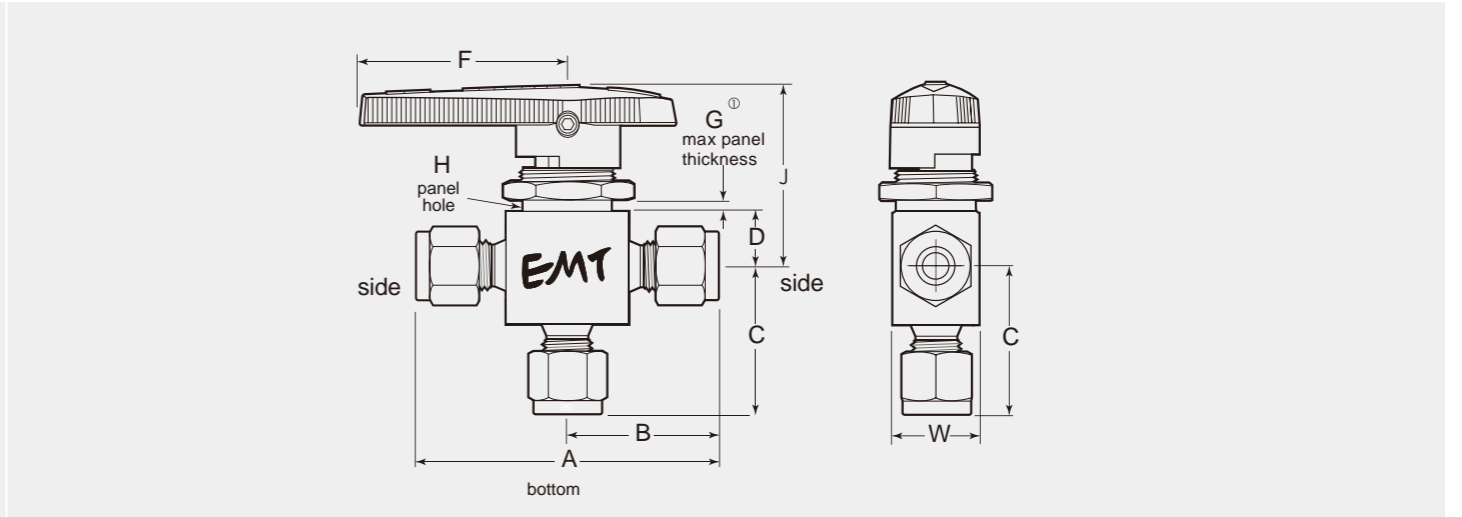
## Ordering Information Dimensions

Dimensions are for reference only and are subject to change. Dimensions shown with EMT tube fitting nuts finger-tight.



## Ordering Information Dimensions

Dimensions are for reference only and are subject to change. Dimensions shown with EMT tube fitting nuts finger-tight.



### Angle-Pattern Valves

To order an angle-pattern valve, add -A to ordering number of a valve with the dimension listed.

Examples: EMT-YBQF-2A

End Connections			C <sub>v</sub>	Angle	Basic Ordering Number	in.(mm)	in. (mm)									
Inlet/Outlet	Size	A					B	C	D	E	F	G	H	J	W	
Fractional EMT tube fittings	1/8 in.	0.20	0.15	EMT-YBQF-2	0.093 (2.36)	2.01 (51.1)	1.01 (25.7)	0.97 (24.6)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)	1.36 (34.5)	0.58 (14.7)	
		0.60			0.35	EMT-YBQF-4L	0.125 (3.18)	2.21 (56.1)	1.10 (27.9)	1.07 (27.2)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)	1.36 (34.5)
	1/4 in.	1.4	0.90	EMT-YBQF-4S	0.187 (4.75)	2.39 (60.7)	1.20 (30.5)	1.17 (29.7)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)	
		1.5	0.90	EMT-YBQF-6L	0.187 (4.75)	2.58 (65.5)	1.29 (32.8)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)		
	3/8 in.	6.0	2.0	EMT-YBQF-6S	0.281 (7.14)	3.05 (77.5)	1.52 (38.6)	1.43 (36.3)	0.56 (14.2)	2.00 (50.8)	3/8 (9.5)	1 1/8 (28.6)	2.07 (52.6)	1.12 (28.4)		
		12	4.6	EMT-YBQF-8L	0.406 (10.3)	3.92 (99.6)	1.96 (49.8)	1.74 (44.2)	0.69 (17.5)	3.00 (76.2)	3/8 (9.5)	1 1/2 (38.1)	2.43 (61.7)	1.50 (38.1)		
	3/4 in.	6.4	3.8	EMT-YBQF-12-S	0.406 (10.3)	3.92 (99.6)	1.96 (49.8)	1.74 (44.2)	0.69 (17.5)	3.00 (76.2)	3/8 (9.5)	1 1/2 (38.1)	2.43 (61.7)	1.50 (38.1)		
	Metric EMT tube fittings	3 mm	0.20	0.15	EMT-YBQF-3M	0.093 (2.36)	2.01 (51.1)	1.01 (25.7)	0.97 (24.6)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)	1.36 (34.5)	0.58 (14.7)
			0.60			0.35	EMT-YBQF-6M-L	0.125 (3.18)	2.21 (56.1)	1.10 (27.9)	1.07 (27.2)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)
		6 mm	1.4	0.90	EMT-YBQF-6M-S	0.187 (4.75)	2.39 (60.7)	1.20 (30.5)	1.17 (29.7)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)
1.5			0.90	EMT-YBQF-8M	0.187 (4.75)	2.46 (62.5)	1.23 (31.2)	1.20 (30.5)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)	
10 mm		6.0	2.0	EMT-YBQF-10M	0.281 (7.14)	3.07 (78.0)	1.53 (38.9)	1.43 (36.3)	0.56 (14.2)	2.00 (50.8)	3/8 (9.5)	1 1/8 (28.6)	2.07 (52.6)	1.12 (28.4)		
12 mm		12	4.6	EMT-YBQF-12M	0.406 (10.3)	3.92 (99.6)	1.96 (49.8)	1.74 (44.2)	0.69 (17.5)	3.00 (76.2)	3/8 (9.5)	1 1/2 (38.1)	2.43 (61.7)	1.50 (38.1)		
Female NPT	1/8 in.	0.50	0.30	EMT-YBQFF-2N-L	0.125 (3.18)	1.63 (41.4)	0.81 (20.6)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)	1.36 (34.5)	0.58 (14.7)		
		1.2	0.70	EMT-YBQFF-2N-S	0.187 (4.75)	2.00 (50.8)	1.00 (25.4)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)		
	1/4 in.	0.90	0.75	EMT-YBQFF-4N-L	0.187 (4.75)	2.04 (52.3)	1.03 (26.2)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)		
		3.0	1.7	EMT-YBQFF-4N-S	0.281 (7.14)	2.50 (63.5)	1.25 (31.8)	0.56 (14.2)	2.00 (50.8)	3/8 (9.5)	1 1/8 (28.6)	2.07 (52.6)	1.12 (28.4)			
	3/8 in.	2.6	1.5	EMT-YBQFM-6N	0.281 (7.14)	2.50 (63.5)	1.25 (31.8)	0.56 (14.2)	2.00 (50.8)	3/8 (9.5)	1 1/8 (28.6)	2.07 (52.6)	1.12 (28.4)			
	1/2 in.	6.3	3.5	EMT-YBQFM-8N	0.406 (10.3)	3.12 (79.2)	1.56 (39.6)	0.69 (17.5)	3.00 (76.2)	3/8 (9.5)	1 1/2 (38.1)	2.43 (61.7)	1.50 (38.1)			

End Connections	C <sub>v</sub>	Ordering Number	Orifice in.(mm)	Dimensions in. (mm)											
				A	B	C	D	F	G	H	J	W			
Fractional EMT tube fittings	1/8 in.	0.15	EMT-YBQF3-2	0.093 (2.36)	2.01 (51.1)	1.01 (25.7)	0.97 (24.6)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)	1.36 (34.5)	0.58 (14.7)	
	1/4 in.	0.35	EMT-YBQF3-4-L	0.125 (3.18)	2.21 (56.1)	1.10 (27.9)	1.07 (27.2)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)	1.36 (34.5)	0.58 (14.7)	
		0.90	EMT-YBQF3-4-S	0.187 (4.75)	2.39 (60.7)	1.20 (30.5)	1.17 (29.7)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)	
	3/8 in.	2.0	EMT-YBQF3-6	0.281 (7.14)	2.89 (73.4)	1.45 (36.8)	1.43 (36.3)	0.56 (14.2)	2.00 (50.8)	3/8 (9.7)	1 1/8 (28.7)	2.07 (52.6)	1.12 (28.4)		
	1/2 in.	4.6	EMT-YBQF3-8	0.406 (10.3)	3.48 (88.4)	1.74 (44.2)		0.69 (17.5)	3.00 (76.2)	3/8 (9.7)	1 1/2 (38.1)	2.43 (61.7)	1.50 (38.1)		
	3/4 in.	3.8	EMT-YBQF3-12	0.406 (10.3)	3.48 (88.4)	1.74 (44.2)		0.69 (17.5)	3.00 (76.2)	3/8 (9.7)	1 1/2 (38.1)	2.43 (61.7)	1.50 (38.1)		
			Metric EMT tube fittings	3 mm	0.15	EMT-YBQF3-3M	0.093 (2.36)	2.01 (51.1)	1.01 (25.7)	0.97 (24.6)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)
	6 mm	0.35	EMT-YBQF3-6M-L	0.125 (3.18)	2.21 (56.1)	1.10 (27.9)	1.07 (27.2)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)	1.36 (34.5)	0.58 (14.7)	
			EMT-YBQF3-6M-S	0.187 (4.75)	2.39 (60.7)	1.20 (30.5)	1.17 (29.7)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)	
	8 mm	0.80	EMT-YBQF3-8M	0.187 (4.75)	2.46 (62.5)	1.23 (31.2)	1.20 (30.5)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)	
10 mm	2.0	EMT-YBQFF3-10M	0.281 (7.14)	2.89 (73.4)	1.45 (36.8)	1.43 (36.3)	0.56 (14.2)	2.00 (50.8)	3/8 (9.7)	1 1/8 (28.7)	2.07 (52.6)	1.12 (28.4)			
12 mm	4.6	EMT-YBQFF3-12M	0.406 (10.3)	3.48 (88.4)	1.74 (44.2)		0.69 (17.5)	3.00 (76.2)	3/8 (9.7)	1 1/2 (38.1)	2.43 (61.7)	1.50 (38.1)			
Female NPT	1/8 in.	0.30	EMT-YBQFF3-2N	0.125 (3.18)	1.63 (41.4)	0.81 (20.6)	0.34 (8.6)	0.28 (7.1)	1.12 (28.4)	1/4 (6.4)	19/32 (15.1)	1.36 (34.5)	0.58 (14.7)		
	1/4 in.	0.75	EMT-YBQFF3-4N-L	0.187 (4.75)	2.06 (52.3)	1.03 (26.2)	0.44 (11.2)	0.38 (9.7)	1.53 (38.9)	3/16 (4.8)	25/32 (19.8)	1.47 (37.3)	0.78 (19.8)		
		1.7	EMT-YBQFF3-4N-S	0.281 (7.14)	2.50 (63.5)	1.25 (31.8)	0.56 (14.2)	2.00 (50.8)	3/8 (9.7)	1 1/8 (28.7)	2.07 (52.6)	1.12 (28.4)			
	3/8 in.	1.5	EMT-YBQFF3-4N	0.281 (7.14)	2.50 (63.5)	1.25 (31.8)	0.56 (14.2)	2.00 (50.8)	3/8 (9.7)	1 1/8 (28.7)	2.07 (52.6)	1.12 (28.4)			
	1/2 in.	3.5	EMT-YBQFF3-8N	0.406 (10.3)	3.13 (79.5)	1.56 (39.6)		0.69 (17.5)	3.00 (76.2)	3/8 (9.7)	1 1/2 (38.1)	2.43 (61.7)	1.50 (38.1)		



# Integral-Bonnet Needle Valves

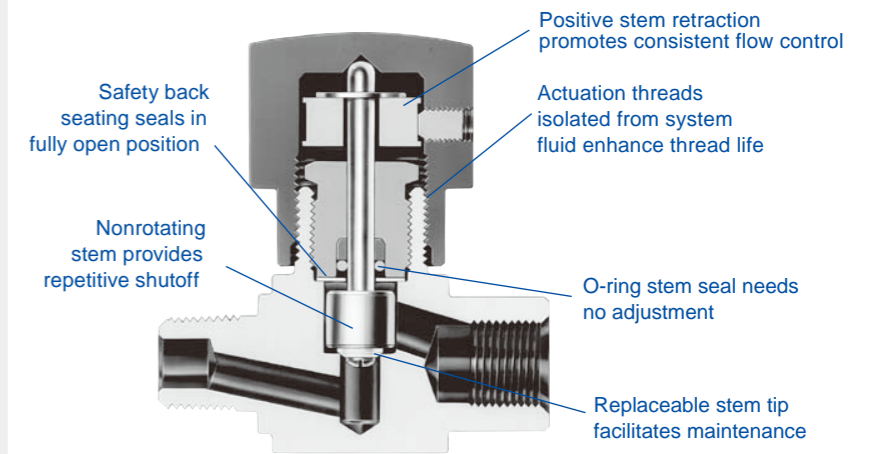


## A, B, C and D Series

- Live-loaded packing system
- Compact design
- Working pressures up to 6000 psig (413 bar)
- Temperatures up to 600°F (315°C)

## Features

- Compact, rugged design is available in straight and angle flow patterns.
- Protective handle prevents contaminants from entering functional valve parts.
- Orifice sizes from 0.093 to 0.218 in. (2.4 to 5.6 mm) are available.
- Flow coefficients ( $C_v$ ) from 0.12 to 0.53 are available.
- Female NPT, male NPT, Linuoyun tube fitting, and mixed end connections are available.



## Materials of Construction



Component	Valve Body Materials		
	316 SS	Brass	400 Alloy 400
Material Grade/ASTM Specification			
1 Handle	Anodized aluminum/B221		
Set screw	Nickel cadmium-plated steel		
2 Retaining ring	Zinc-plated steel		
3 Spool	B209, B211 Aluminum/B 209, B 112		
4 Packing	<i>Molybdenum disulfide-coated</i>	<i>Molybdenum disulfide-coated brass</i>	<i>Molybdenum disulfide-coated alloy</i>
5 Backup ring	PTFE/D1710		
6 O-ring	Fluorocarbon FKM		
7 Washer	<i>316 SS/A167 Fluorocarbon-coated</i>	<i>5052/B209 Aluminum</i>	<i>400/B127 Fluorocarbon-coated alloy</i>
8 Stem	316 SS/A276		400/B164
Stem tip	PCTFE/D1430		
Machine screw	316 SS/A276		Alloy 400/B164
9 Body	316 SS/A182	Brass 377/B283	Alloy 400/B564
Lubricants	<i>Molybdenum disulfide in hydrocarbon carrier; O-ring—silicone-based; machine screw—hydrocarbon thread lock</i>		

Wetted components listed in italics.

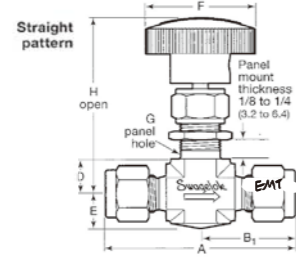
## Pressure-Temperature Ratings

Ratings are limited to:

- 250°F (121°C) max with Buna N, silicone, and ethylene propylene O-rings.
- -65 to 50°F (-53 to 11°C) with Buna C O-rings.

ASME Class	1250	N/A		1500		
Material Group	2.2	N/A		3.4		
Material Name	316 SS		Brass		400 Alloy 400	
Stem Tip Material	PCTFE	PEEK	PCTFE	PEEK	PCTFE	PEEK
Temperature, °C (°F)	Working Pressure, psig (bar)					
-28 (-20) to 37 (100)	3000 (206)	3000 (206)	3000 (206)	3000 (206)	3000 (206)	3000 (206)
65 (150)	2790 (192)	2790 (192)	2675 (184)	2675 (184)	2820 (194)	2820 (194)
93 (200)	2580 (177)	2580 (177)	2350 (161)	2350 (161)	2640 (181)	2640 (181)
121 (250)	—	2455 (169)	—	2200 (151)	—	2555 (176)
148 (300)	—	2330 (160)	—	2050 (141)	—	2470 (170)
176 (350)	—	2235 (153)	—	1220 (84.0)	—	2430 (167)
204 (400)	—	2140 (147)	—	390 (26.8)	—	2390 (164)
232 (450)	—	2065 (142)	—	—	—	2380 (163)

For more information about pressure ratings of valves with tube fitting end connections, see EMT Tubing Data.



End Connections		C <sub>v</sub>	Orifice in. (mm)	Ordering Number	Dimensions, in. (mm)							
Inlet/Outlet	Size				A	B <sub>1</sub>	B <sub>2</sub>	C	D	E	F	G
Fractional EMT tube fittings	1/8 in.	0.09	0.080 (2.0)	EMT-FMZ-2	1.94 (49.3)	0.98 (24.9)	1.29 (32.8)	0.44 (11.2)	0.31 (7.9)	1.00 (25.4)	0.47 (11.9)	2.28 (57.9)
	1/4 in.	0.37	0.172 (4.4)	EMT-FMZ-4	2.27 (57.6)	1.13 (28.7)	1.51 (38.4)	0.38 (9.7)	1.38 (35.1)	0.53 (13.5)	2.50 (63.5)	
	3/8 in.	0.73	0.250 (6.4)	EMT-FMZ-6	2.58 (65.5)	1.29 (32.8)	1.79 (45.5)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
	1/2 in.			EMT-FMZ-8-L	2.80 (71.1)	1.40 (35.6)	1.90 (48.3)					
	1/2 in.	1.80	0.375 (9.5)	EMT-FMZ-8-S	3.80 (96.5)	1.90 (48.3)	2.65 (67.3)	0.75 (19.1)	3.00 (76.2)	1.03 (26.2)	3.91 (99.3)	
3/4 in.	EMT-FMZ-12											
Metric EMT tube fittings	3 mm	0.09	0.080 (2.0)	EMT-FMZ-3M	1.94 (49.3)	0.98 (24.9)	1.29 (32.8)	0.44 (11.2)	0.31 (7.9)	1.00 (25.4)	0.48 (12.2)	2.28 (57.9)
	6 mm	0.37	0.172 (4.4)	EMT-FMZ-6M	2.27 (57.6)	1.13 (28.7)	1.51 (38.4)		0.38 (9.7)	1.38 (35.1)	0.53 (13.5)	2.50 (63.5)
	8 mm			EMT-FMZ-8M	2.34 (59.4)	1.17 (29.7)	1.54 (39.1)					
	10 mm	0.73	0.250 (6.4)	EMT-FMZ-10M	2.60 (66.0)	1.30 (33.0)	1.80 (45.7)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
	12 mm			EMT-FMZ-12M-L	2.80 (71.1)	1.40 (35.6)	1.90 (48.3)					
	12 mm	1.80	0.375 (9.5)	EMT-FMZ-12M-S	3.80 (96.5)	1.90 (48.3)	2.65 (67.3)	0.75 (19.1)	3.00 (76.2)	1.03 (26.2)	3.91 (99.3)	
18 mm	EMT-FMZ-18M											
Female NPT	1/8 in.	0.09	0.080 (2.0)	EMT-FMZFF-2N-L	1.88 (47.8)	0.94 (23.9)	1.25 (31.8)	0.44 (11.2)	0.31 (7.9)	1.00 (25.4)	0.47 (11.9)	2.28 (57.9)
	1/8 in.	0.37	0.172 (4.4)	EMT-FMZFF-2N-S	1.62 (41.1)	0.81 (20.6)	1.19 (30.2)		0.38 (9.7)	1.38 (35.1)	0.53 (13.5)	2.50 (63.5)
	1/4 in.	0.73	0.250 (6.4)	EMT-FMZFF-4N	2.12 (53.8)	1.06 (26.9)	1.56 (39.6)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
	3/8 in.	1.80	0.375 (9.5)	EMT-FMZFF-6N	3.00 (76.2)	1.50 (38.1)	2.25 (57.2)					
	1/2 in.			EMT-FMZFF-8N								
Male NPT	1/8 in.	0.09	0.080 (2.0)	EMT-FMZFM-2N-L	1.50 (38.1)	0.75 (19.1)	1.06 (26.9)	0.44 (11.2)	0.31 (7.9)	1.00 (25.4)	0.47 (11.9)	2.28 (57.9)
	1/8 in.	0.37	0.172 (4.4)	EMT-FMZFM-2N-S	1.62 (41.1)	0.81 (20.6)	1.19 (30.2)		0.38 (9.7)	1.38 (35.1)	0.53 (13.5)	2.50 (63.5)
	1/4 in.			EMT-FMZFM-4N	1.97 (50.0)	0.98 (24.9)	1.36 (34.5)					
	3/8 in.	0.73	0.250 (6.4)	EMT-FMZFM-6N	2.25 (62.5)	1.12 (28.4)	1.62 (41.1)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
	1/2 in.	1.80	0.375 (9.5)	EMT-FMZFM-8N	3.00 (76.2)	1.50 (38.1)	2.25 (57.2)					
Male NPT/ EMT tube fitting	1/8 in.	0.09	0.080 (2.0)	EMT-FMZFM-2-2N	1.73 (43.9)	0.98 (24.9)	0.75 (19.1)	0.44 (11.2)	0.31 (7.9)	1.00 (25.4)	0.47 (11.9)	2.28 (57.9)
	1/4 in.	0.37	0.172 (4.4)	EMT-FMZFM-4-4N	1.95 (49.5)	1.13 (28.7)	0.98 (24.9)		0.38 (9.7)	1.38 (35.1)	0.53 (13.5)	2.50 (63.5)
	1/4 to 3/8 in.	0.73	0.250 (6.4)	EMT-FMZFM-6-4N	2.42 (61.5)	1.29 (32.8)	1.79 (45.5)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
	3/8 to 1/2 in.			EMT-FMZFM-8-6N	2.52 (64.0)	1.40 (35.6)	1.90 (48.3)					
Male/ female NPT	1/4 in.	0.73	0.250 (6.4)	EMT-FMZFMF-4N	2.19 (55.6)	1.06 (26.9)	1.12 (28.4)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
	1/2 in.	1.80	0.375 (9.5)	EMT-FMZFMF-8N	3.00 (76.2)	1.50 (38.1)	2.25 (57.2)					

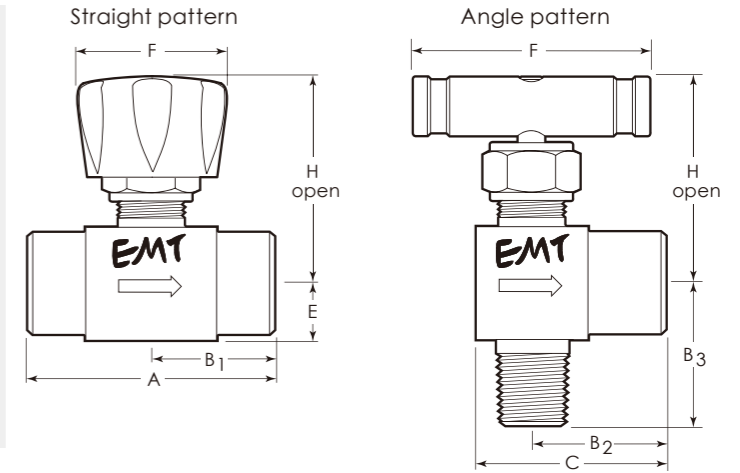
## Ordering Information and Dimensions

### C and D Series

Dimensions are for reference only and are subject to change. Select an ordering number. For soft-seat stems and PCTFE stem - tips in valves that are standard with vee stems, replace V with K.

### Angle-Pattern Valves

Angle-pattern bodies are available for valves with C dimensions listed. To order, add -A to the ordering number. Example: EMT-FMZFF-4N-A

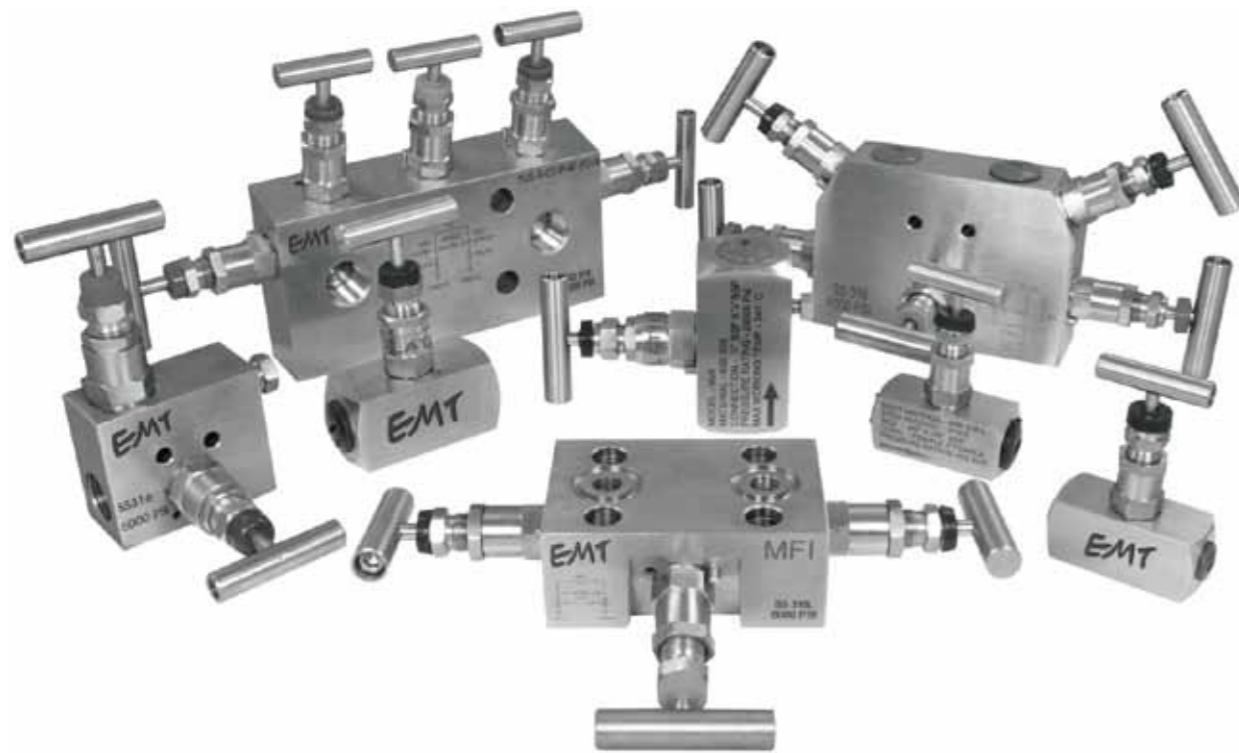


End Connections		C <sub>v</sub>	Orifice in. (mm)	Ordering Number	Dimensions, in. (mm)							
Inlet/Outlet	Size				A	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	C	E	F	H
20 series with soft-seat stem and PCTFE stem tip												
Female NPT	1/4 in.	0.09	0.080 (2.0)	EMT-FMZFF-4N	1.88 (47.8)	0.94 (23.9)	—	—	—	0.42 (10.7)	1.12 (28.4)	1.66 (42.2)
Male NPT	1/4 in.			EMT-FMZFM-4N	1.94 (49.3)	0.97 (24.6)	—	—	—	0.42 (10.7)	1.12 (28.4)	1.66 (42.2)
Male/ female NPT	1/4 in.			EMT-FMZFFM-4N	1.91 (48.5)	0.94 (23.9)	1.00 (25.4)	1.03 (26.2)	1.44 (36.6)	0.42 (10.7)	1.12 (28.4)	1.66 (42.2)
20 and 26 series with vee stem												
EMT tube fittings	1/4 in.	0.21	0.125 (3.2)	EMT-FMZFFV-4N	2.46 (62.5)	1.23 (31.2)	1.13 (28.7)	1.16 (29.5)	1.57 (39.9)	0.42 (10.7)	1.75 (44.4)	1.66 (42.2)
	3/8 in.	0.73	0.250 (6.4)	EMT-FMZFFV-6N	3.08 (78.2)	1.54 (39.1)	—	—	—	0.66 (16.8)	2.50 (63.5)	2.31 (58.7)
	1/2 in.			EMT-FMZFFV-8N	3.30 (83.8)	1.65 (41.9)	—	—	—	0.66 (16.8)	2.50 (63.5)	2.31 (58.7)
Female NPT	1/4 in.	0.21	0.125 (3.2)	EMT-FMZFFV-4N	1.88 (47.8)	0.94 (23.9)	1.00 (25.4)	—	1.44 (36.6)	0.42 (10.7)	1.75 (44.4)	1.66 (42.2)
	3/8 in.	0.73	0.250 (6.4)	EMT-FMZFFV-6N	2.50 (63.5)	1.25 (31.8)	—	—	—	0.66 (16.8)	2.50 (63.5)	2.31 (58.7)
1/2 in.	EMT-FMZFFV-8N			—	—	1.41 (35.8)	2.06 (52.3)	0.66 (16.8)	2.50 (63.5)	2.31 (58.7)		
Male NPT	1/4 in.	0.21	0.125 (3.2)	EMT-FMZFMV-4N	1.94 (49.3)	0.97 (24.6)	—	—	—	0.42 (10.7)	1.75 (44.4)	1.66 (42.2)
Male/ female NPT	1/4 in.			EMT-FMZFFMV-4N	1.91 (48.5)	0.94 (23.9)	1.00 (25.4)	1.03 (26.2)	1.44 (36.6)	0.42 (10.7)	1.75 (44.4)	
	3/8 in.			EMT-FMZFFMV-6N	2.50 (63.5)	1.25 (31.8)	1.41 (35.8)	1.22 (31.0)	2.06 (52.3)	0.66 (16.8)	2.50 (63.5)	2.31 (58.7)
	1/2 in.	EMT-FMZFFMV-8N	2.55 (64.8)	1.25 (31.8)	1.41 (35.8)	—	—	0.66 (16.8)	2.50 (63.5)	2.31 (58.7)		
3/4 to 1/2 in.	EMT-FMZFFV-12N-8N	2.50 (63.5)	1.25 (31.8)	—	—	—	—	—	—	—		

# Instrument Manifolds

## Manifold Features

EMT offers a variety of 2-, 3-, and 5-valve instrument manifolds. The 2-valve manifolds are designed for static pressure and liquid level applications; the 3- and 5-valve manifolds are designed for differential pressure applications. The E, EB, and EL series manifolds feature a horizontal body design. Manifold connections include 1/2 in. and 12 mm female EMT tube fitting, 1/2 in. female pipe (NPT and ISO 228/1), and flange (MSS SP-99).



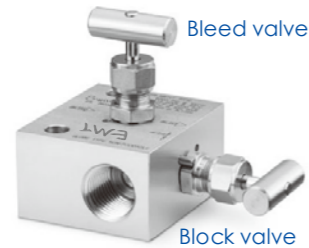
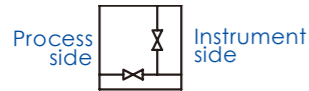
- E, EB, and EL Series**
- 2-, 3-, and 5-valve instrument manifolds
  - All 316 stainless steel construction with PTFE packing
  - Working pressures up to 6000 psig (413 bar)
  - Temperatures up to 1200°F (648°C) with Grafoil® valve packing

- Body Design**
- One-piece construction provides strength.
- Materials of Construction**
- All 316 stainless steel construction.
  - Designed with 4:1 design factor.
- Mounting Options**
- 2 1/8 in. (54 mm) port center lines for direct instrument mounting with flange connections.
  - Remote mounting with female EMT tube fitting and NPT connections.
- Internal Finish**
- Burr-free threads and internal surfaces reduce leaks, promoting accurate transmitter readings.

⚠ Packing adjustments may be required during the service life of the valve.  
 ⚠ Valves that have not been cycled for a period of time may have a higher initial actuation torque.

2-Valve Manifolds

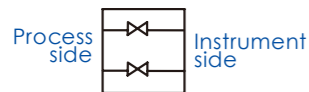
E Series



- Allows for block and bleed (or calibration) of static pressure transmitter or gauge
- Consists of one block valve and one bleed valve
- End connections—1/2 in. and 12 mm female Linuoyun tube fitting; 1/2 in. female pipe (NPT); flange (MSS)
- Horizontal body style
- Direct instrument mount and remote mount

EL Series

- Designed for liquid level applications
- Consists of two block valves operating in parallel to shut off either one of the two process lines through the manifold
- No equalizer passage through the manifold
- End connections—1/2 in. female pipe (NPT) to flange
- Horizontal body style
- Direct instrument mount



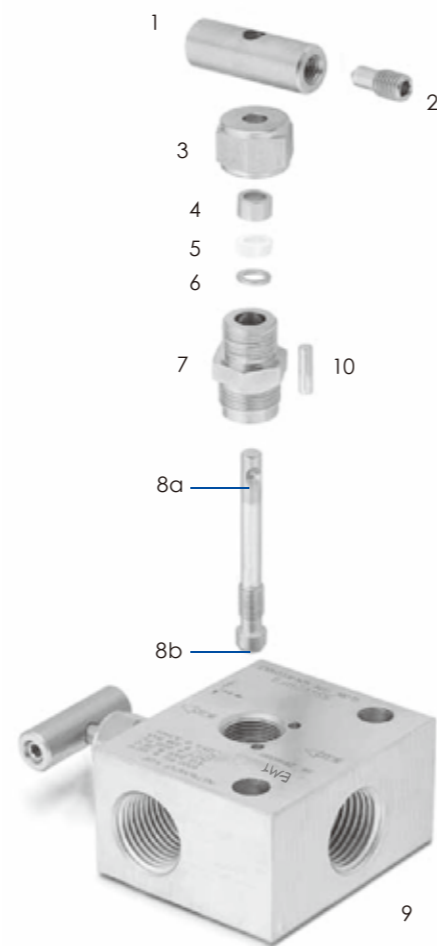
E Series

Materials of Construction

Materials for pressure-containing wetted parts are in compliance with ASME B31.1.

Component	Material Grade/ ASTM Specification
1 Handle	316 SS/A479
2 Set screw	
3 Packing nut	
4 Upper gland	
5 Packing	PTFE/D1710
6 Lower gland	316 SS/A240 或 A167
7 Bonnet	316 SS/A479
8a Stem	316 SS/A276
8b Ball tip	316 SS/A479
9 Body	316 SS/A479
10 Stop pin	316 SS/A479
<i>Flange seals (not shown)</i>	<i>Fluorocarbon FKM</i>
<i>Flange bolts (not shown)</i>	<i>B8M CL.2B/A193</i>
<i>Lubricants</i>	<i>Fluorinated base with PTFE and tungsten disulfide</i> <i>Hydrocarbon-based</i>

Wetted components listed in italics.



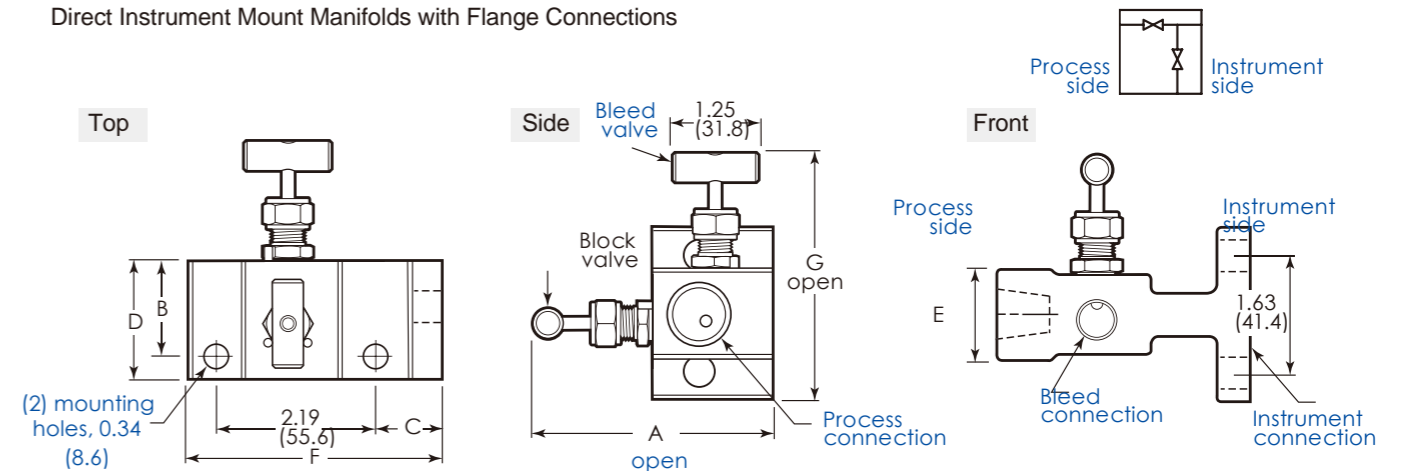
2-Valve Manifolds

E Series

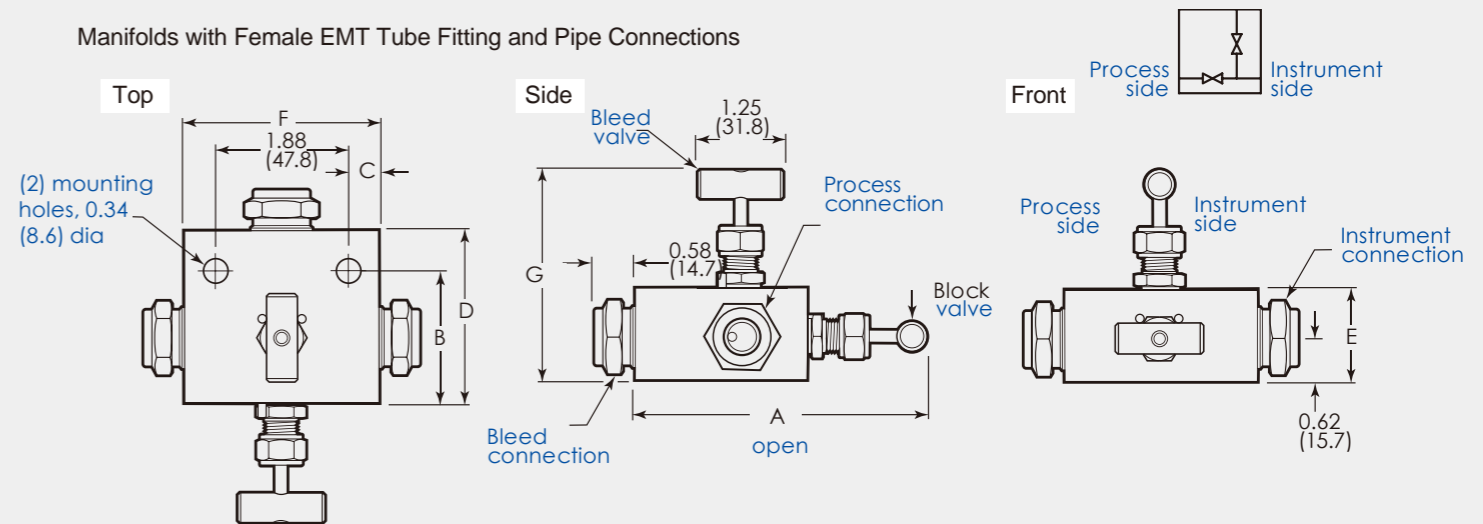
Ordering Information and Dimensions

Dimensions, in inches (millimeters), are for reference only and are subject to change.

Direct Instrument Mount Manifolds with Flange Connections



Manifolds with Female EMT Tube Fitting and Pipe Connections



End Connections			Ordering Number	Dimensions, in. (mm)						
Process	Instrument	Bleed		A	B	C	D	E	F	G
1/2 in. female EMT tube fitting			EMT-EFZ-S8	4.19 (106)	1.89 (48.0)	0.44 (11.2)	2.48 (63.0)	1.31 (33.3)	2.75 (69.9)	3.02 (76.7)
female EMT tube fitting	Flange (MSS)	1/4 in. female NPT	EMT-EFZ-S8-FL	3.33 (84.6)	1.31 (33.3)	0.90 (22.9)	1.63 (41.4)	1.25 (31.8)	3.46 (87.9)	3.46 (87.9)
12 mm female EMT tube fitting			EMT-EFZ-S12M	4.19 (106)	1.89 (48.0)	0.44 (11.2)	2.48 (63.0)	1.31 (33.3)	2.75 (69.9)	3.02 (76.7)
female EMT tube fitting	Flange (MSS)	1/4 in. female NPT	EMT-EFZ-S12M-FL	3.33 (84.6)	1.31 (33.3)	0.90 (22.9)	1.63 (41.4)	1.25 (31.8)	3.46 (87.9)	3.46 (87.9)
1/2 in. female NPT			EMT-EFZ-8	3.82 (97.0)	1.62 (41.1)	0.31 (7.9)	2.12 (53.8)	1.31 (33.3)	2.50 (63.5)	3.02 (76.7)
1/2 in. female NPT	Flange (MSS)	1/4 in. female NPT	EMT-EFZ-8-FL	3.33 (84.6)	1.31 (33.3)	0.90 (22.9)	1.63 (41.4)	1.25 (31.8)	3.48 (88.4)	3.46 (87.9)

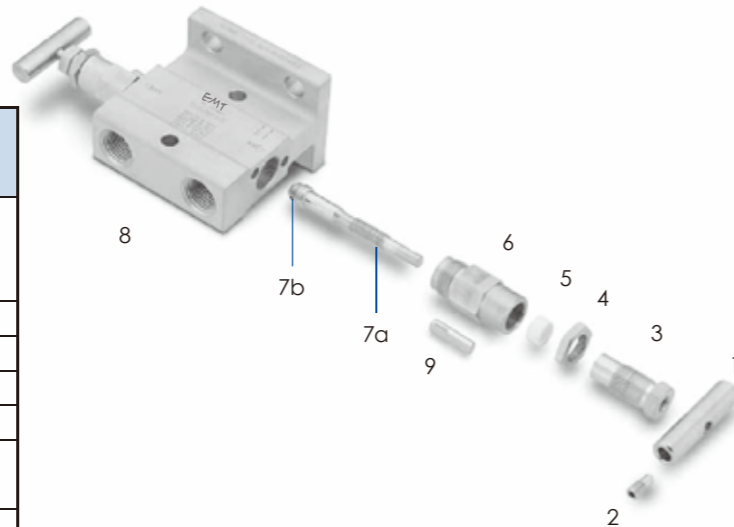
## 2-Valve Manifolds

### EL Series

Materials of Construction

Materials for pressure-containing wetted parts are in compliance with ASME B31.1.

Component	Material Grade/ ASTM Specification
1 Handle	316 SS/A479
2 Set screw	
3 Packing bolt	
4 Jam nut	316 SS/A276
5 Packing	PTFE/D1710
6 Bonnet	316 SS/A479
7a Stem	316 SS/A276
7b Ball tip	316 SS/A479
8 Body	
9 Stop pin	316 SS/A479
Flange seals (not shown)	Fluorocarbon FKM
Flange bolts (not shown)	B8M CL.2B/A193
Lubricants	Fluorinated base with PTFE and tungsten disulfide  Hydrocarbon-based

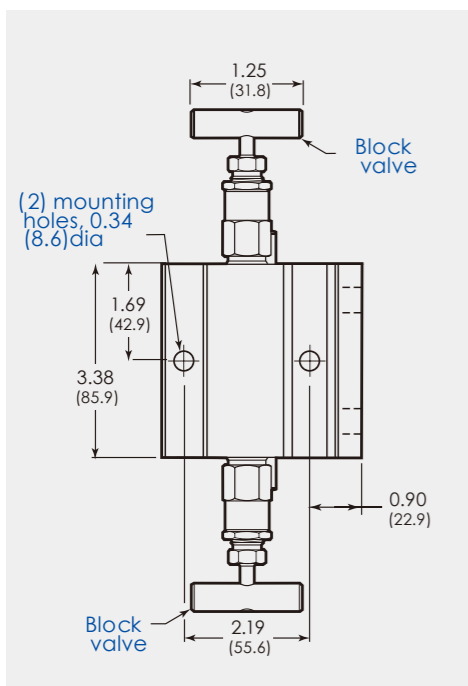


Wetted components listed in italics.

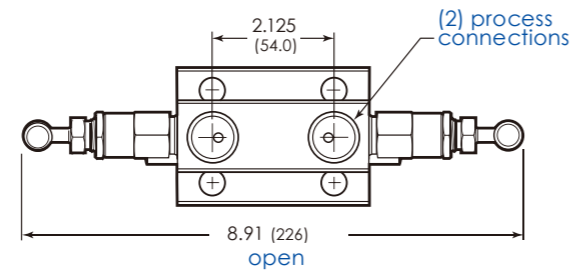
## Ordering Information and Dimensions

Dimensions, in inches (millimeters), are for reference only and are subject to change.

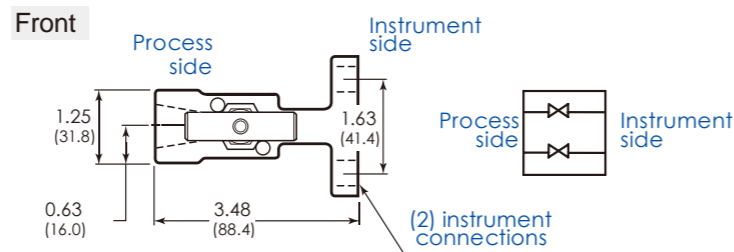
Top



Side



Front



End Connections		Ordering Number
Process	Instrument	
1/2 in. female NPT	Flange (MSS)	EMT-EFZ-8-FL

## 3-Valve Manifolds

### EL Series



- Designed for mounting on differential pressure transmitters with 2 1/8 in. (54 mm) center-to-center connections
- Consists of two block valves and one equalizer valve
- End connections—1/2 in. and 12 mm female EMT tube fitting, 1/2 in. female pipe (NPT), and flange (MSS)
- Horizontal body style
- Direct instrument mount and remote mount

### E Series

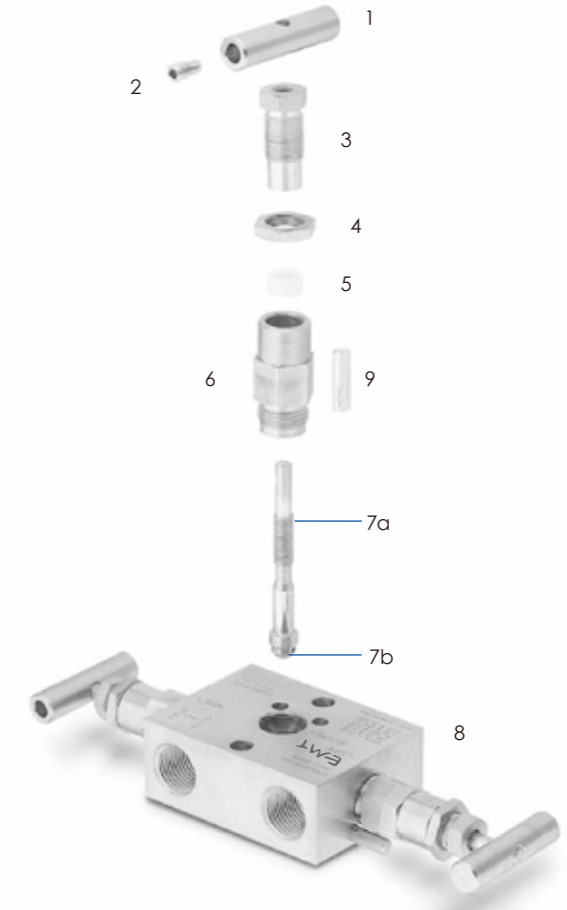
## Materials of Construction

ASME B31.1.

Materials for pressure-containing wetted parts are in compliance with ASME B31.1.

Component	Material Grade/ ASTM Specification
1 Handle	316 SS/A479
2 Set screw	
3 Packing bolt	
4 Jam nut	316 SS/A276
5 Packing	PTFE/D1710
6 Bonnet	316 SS/A479
7a Stem	316 SS/A276
7b Ball tip	316 SS/A479
8 Body	
9 Stop pin	316 SS/A479
Flange seals (not shown)	Fluorocarbon FKM
Flange bolts (not shown)	B8M CL.2B/A193
Lubricants	Fluorinated base with PTFE and tungsten disulfide  Hydrocarbon-based

Wetted components listed in italics.



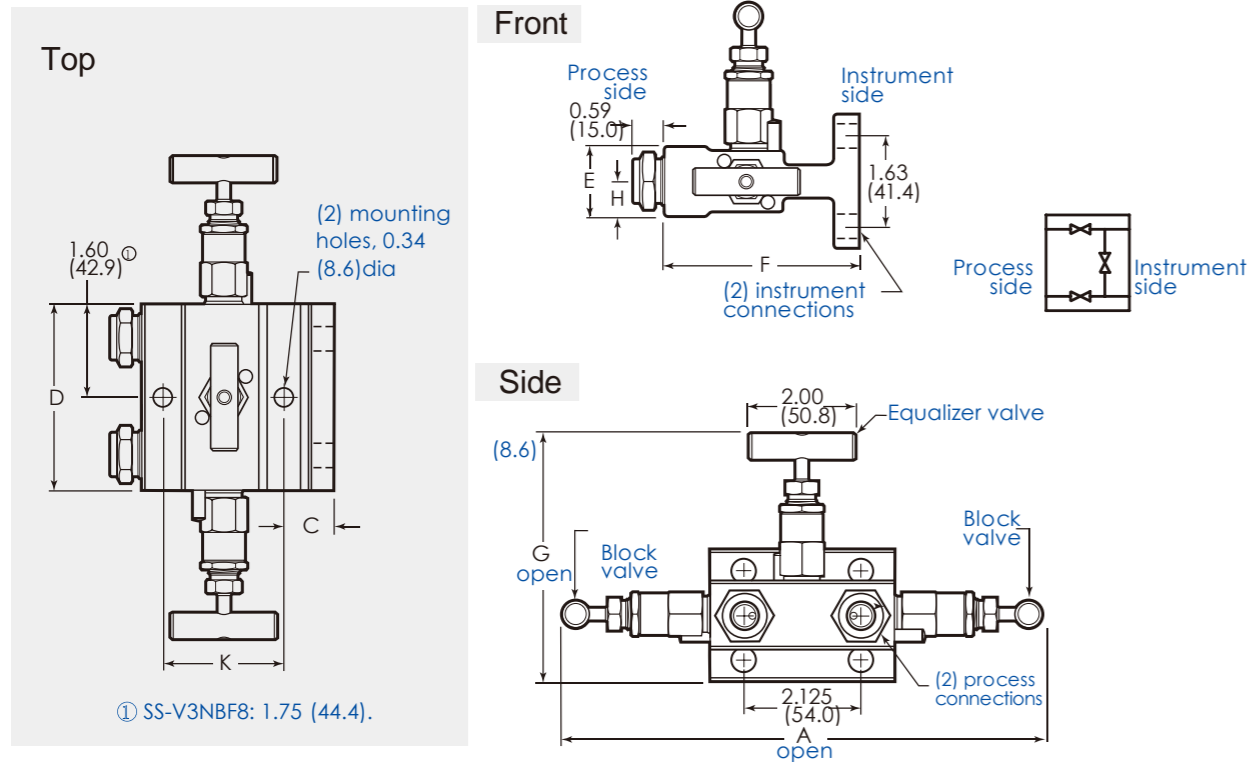
### 3-Valve Manifolds

#### E Series

#### Ordering Information and Dimensions

Dimensions, in inches (millimeters), are for reference only and are subject to change.

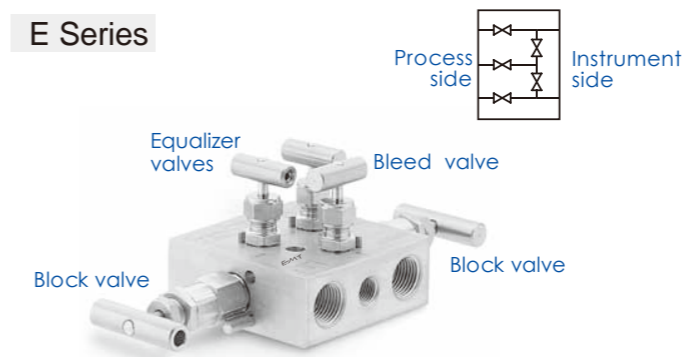
W-ELD-0367



End Connections		Ordering Number	Dimensions, in. (mm)							
Process	Instrument		A	C	D	E	F	G	H	K
1/2 in. female NPT		EMT-SFZ-8	9.03 (229)	0.31 (7.9)	3.50 (88.9)	1.31 (33.3)	2.50 (63.5)	4.08 (104)	0.66 (16.8)	1.88 (47.8)
1/2 in. female NPT	Flange (MSS)	EMT-SFZ-8-FL		0.90 (22.9)		1.25 (31.8)	3.48 (88.4)	4.51 (115)	0.63 (16.0)	2.19 (55.6)
1/2 in. female EMT tube fitting		EMT-SFZ-S8		0.46 (11.7)		1.31 (33.3)	3.04 (77.2)	4.08 (104)	0.66 (16.8)	1.88 (47.8)
1/2 in. female EMT tube fitting	Flange (MSS)	EMT-SFZ-S8-FL	8.91 (226)	0.90 (22.9)	3.38 (85.9)	1.25 (31.8)	3.48 (88.4)	4.51 (115)	0.63 (16.0)	2.19 (55.6)
12 mm female EMT tube fitting		EMT-SFZ-S12M		0.46 (11.7)		1.31 (33.3)	3.04 (77.2)	4.08 (104)	0.66 (16.8)	1.88 (47.8)
12 mm female EMT tube fitting	Flange (MSS)	EMT-SFZ-S12M-FL		0.90 (22.9)		1.25 (31.8)	3.48 (88.4)	4.51 (115)	0.63 (16.0)	2.19 (55.6)
Flange (MSS)		EMT-SFZ-FL				2.40 (61.0)	4.07 (103)	4.55 (116)	1.20 (30.5)	

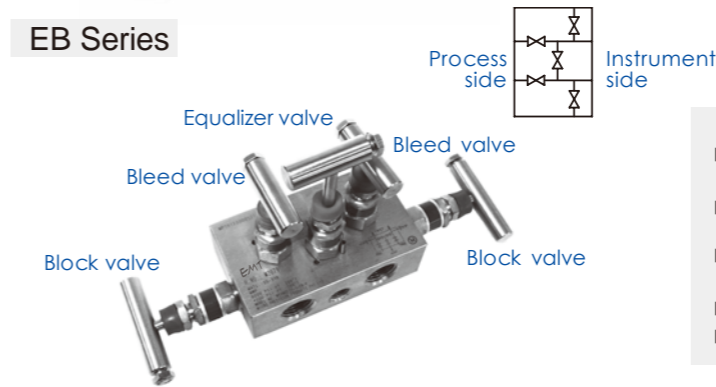
### 5-Valve Manifolds

#### E Series



- Designed for mounting on differential pressure transmitters where a double-equalize function is required
- Consists of two block valves, two equalizer valves, and one bleed valve
- End connections—1/2 in. and 12 mm female EMT tube fittings, 1/2 in. female pipe (NPT), and flange (MSS)
- Horizontal body style
- Direct instrument mount and remote mount

#### EB Series



- Designed for mounting on differential pressure transmitters where a double-bleed function is required.
- Consists of two block valves, two bleed valves, and one equalizer valve
- End connections—1/2 in. and 12 mm female EMT tube fittings, 1/2 in. female pipe (NPT), and flange (MSS)
- Horizontal body style
- Direct instrument mount and remote mount

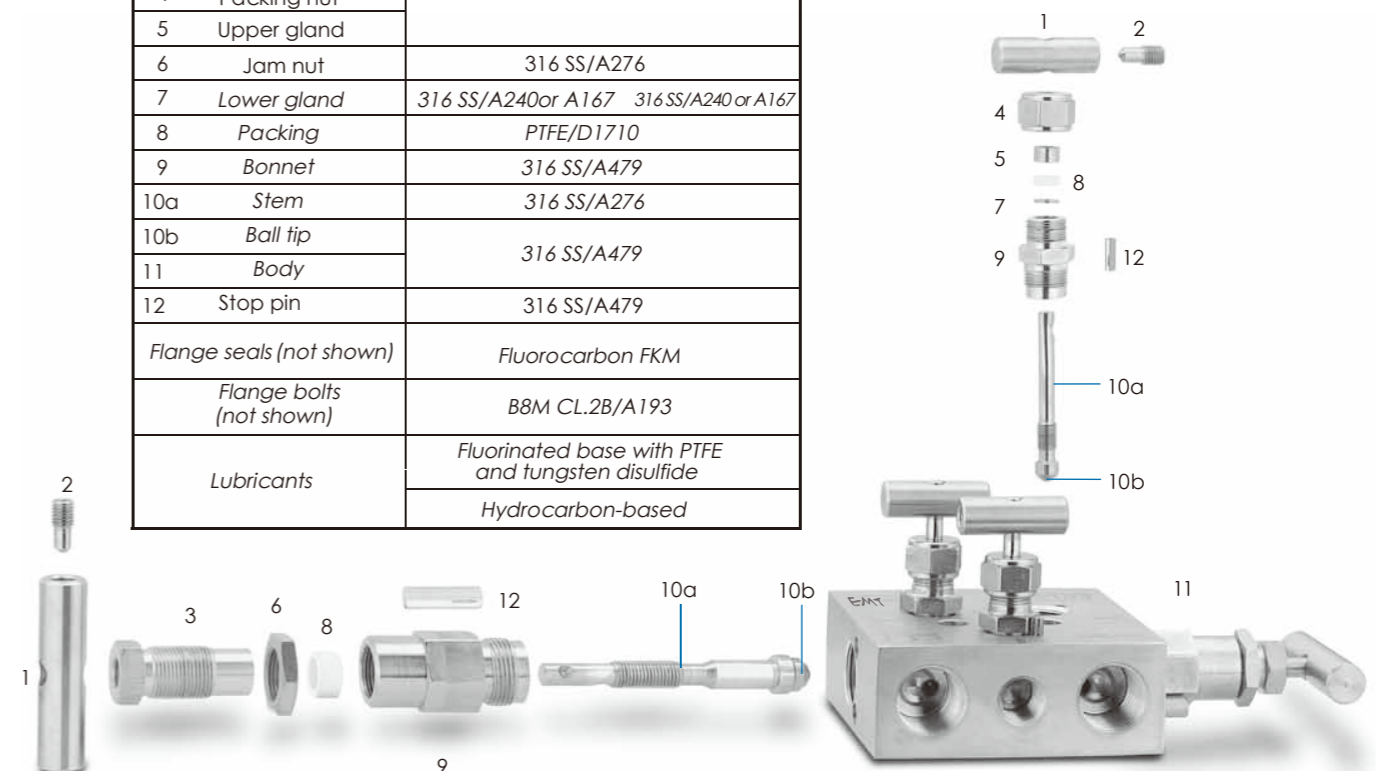
#### E Series

Component	Material Grade/ ASTM Specification
1 Handle	316 SS/A479
2 Set screw	
3 Packing bolt	
4 Packing nut	
5 Upper gland	
6 Jam nut	316 SS/A276
7 Lower gland	316 SS/A240 or A167 316 SS/A240 or A167
8 Packing	PTFE/D1710
9 Bonnet	316 SS/A479
10a Stem	316 SS/A276
10b Ball tip	
11 Body	316 SS/A479
12 Stop pin	316 SS/A479
Flange seals (not shown)	Fluorocarbon FKM
Flange bolts (not shown)	B8M CL.2B/A193
Lubricants	Fluorinated base with PTFE and tungsten disulfide
	Hydrocarbon-based

#### Materials of Construction

Materials for pressure-containing wetted parts are in compliance with ASME B31.1.

Wetted components listed in italics.

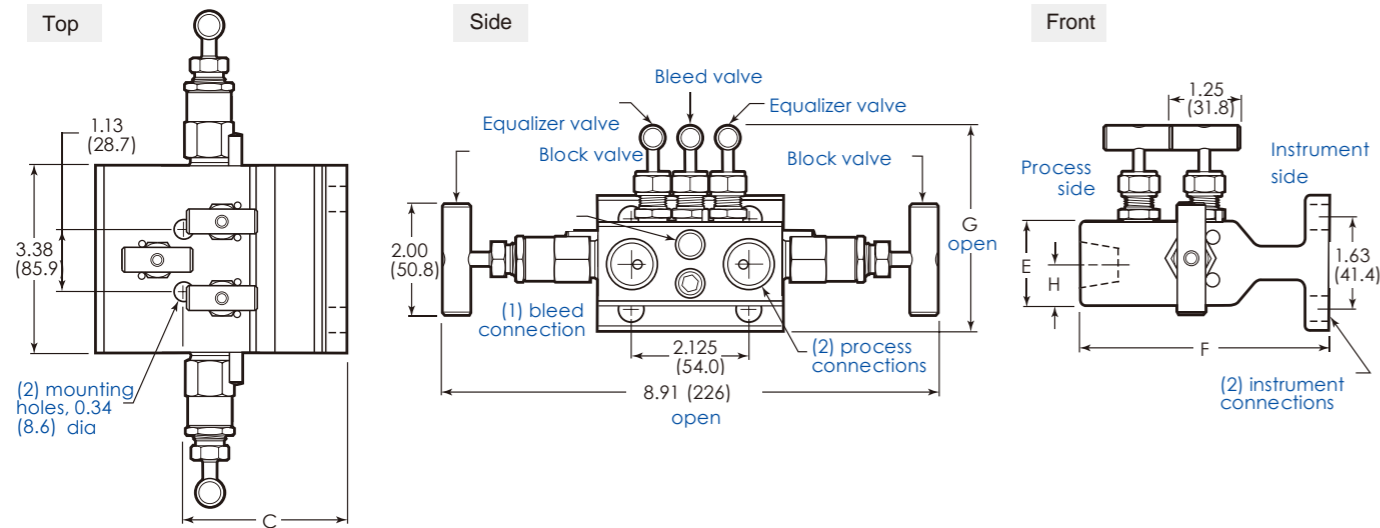


**5-Valve Manifolds**

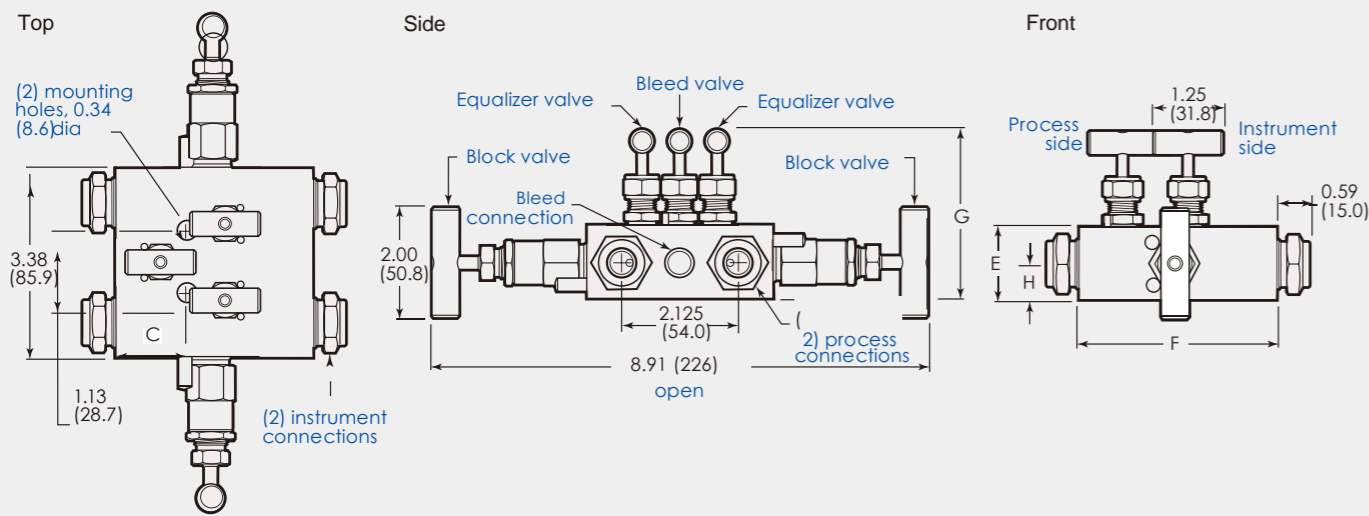
**E Series**

**Ordering Information and Dimensions**

Dimensions, in inches (millimeters), are for reference only and are subject to change.  
Direct Instrument Mount Manifolds with Flange Connections



**Manifolds with Female EMT Tube Fitting and Pipe Connections**



End Connections			Ordering Number	Dimensions, in. (mm)				
Process	Instrument	Bleed		C	E	F	G	H
1/2 in. female EMT tube fitting		1/4 in. female NPT	EMT-WFZ-S8	1.28 (32.5)	1.31 (33.3)	3.55 (90.2)	3.65 (92.7)	0.63 (16.0)
1/2 in. female EMT tube fitting	Flange (MSS)		EMT-WFZ-S8-FL	2.88 (73.2)	1.49 (37.8)	4.43 (114)	3.64 (92.5)	0.75 (19.1)
12 mm female EMT tube fitting			EMT-WFZ-S12MM	1.28 (32.5)	1.31 (33.3)	3.55 (90.2)	3.65 (92.7)	0.63 (16.0)
12 mm female EMT tube fitting	Flange (MSS)		EMT-WFZ-S12MM-FL	2.88 (73.2)	1.49 (37.8)	4.43 (114)	3.64 (92.5)	0.75 (19.1)
1/2 in. female NPT			EMT-WFZ-8	1.42 (36.0)	1.31 (33.3)	3.62 (91.9)	3.07 (78.0)	0.63 (16.0)
1/2 in. female NPT	Flange (MSS)		EMT-WFZ-8-FL	2.88 (73.2)	1.49 (37.8)	4.47 (114)	3.66 (93.0)	0.75 (19.1)
Flange (MSS)		1/8 in. female NPT	EMT-WFZ-FL	2.98 (75.7)	1.50 (38.1)	5.00 (127)		—

**5-Valve Manifolds**

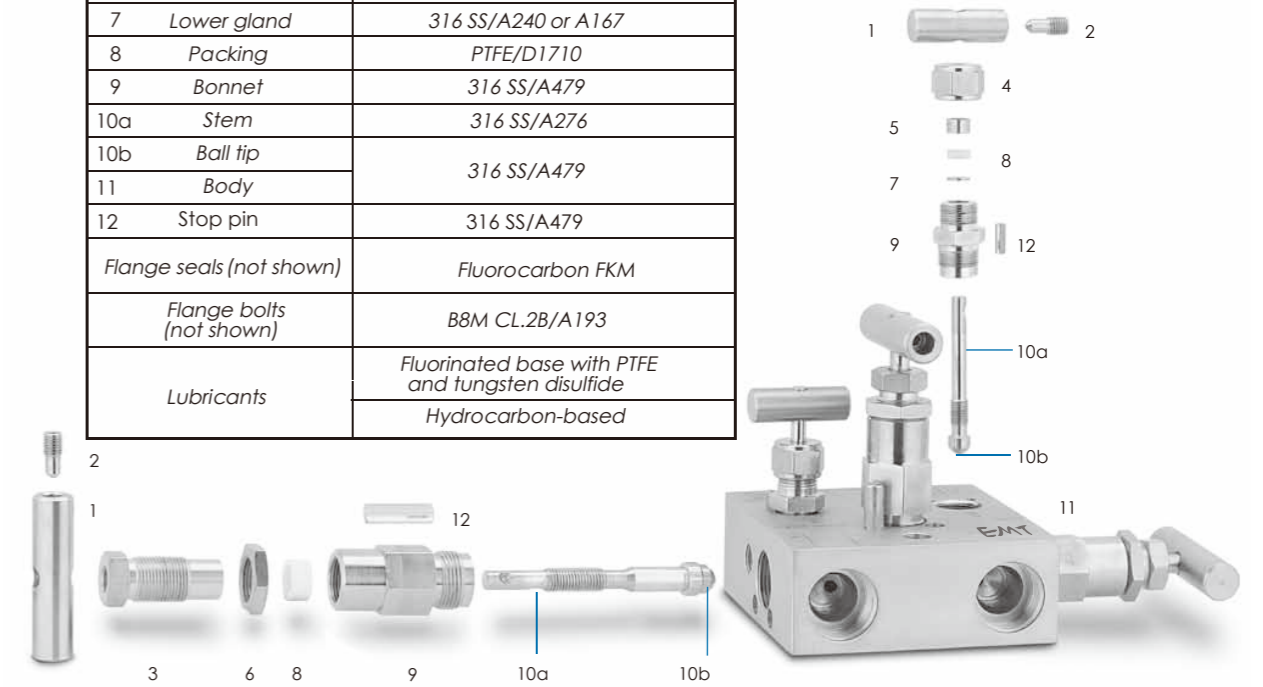
**EB Series**

Component	Material Grade/ ASTM Specification
1 Handle	316 SS/A479
2 Set screw	
3 Packing bolt	
4 Packing nut	
5 Upper gland	
6 Jam nut	316 SS/A276
7 Lower gland	316 SS/A240 or A167
8 Packing	PTFE/D1710
9 Bonnet	316 SS/A479
10a Stem	316 SS/A276
10b Ball tip	316 SS/A479
11 Body	316 SS/A479
12 Stop pin	316 SS/A479
Flange seals (not shown)	Fluorocarbon FKM
Flange bolts (not shown)	B8M CL.2B/A193
Lubricants	Fluorinated base with PTFE and tungsten disulfide Hydrocarbon-based

**Materials of Construction**

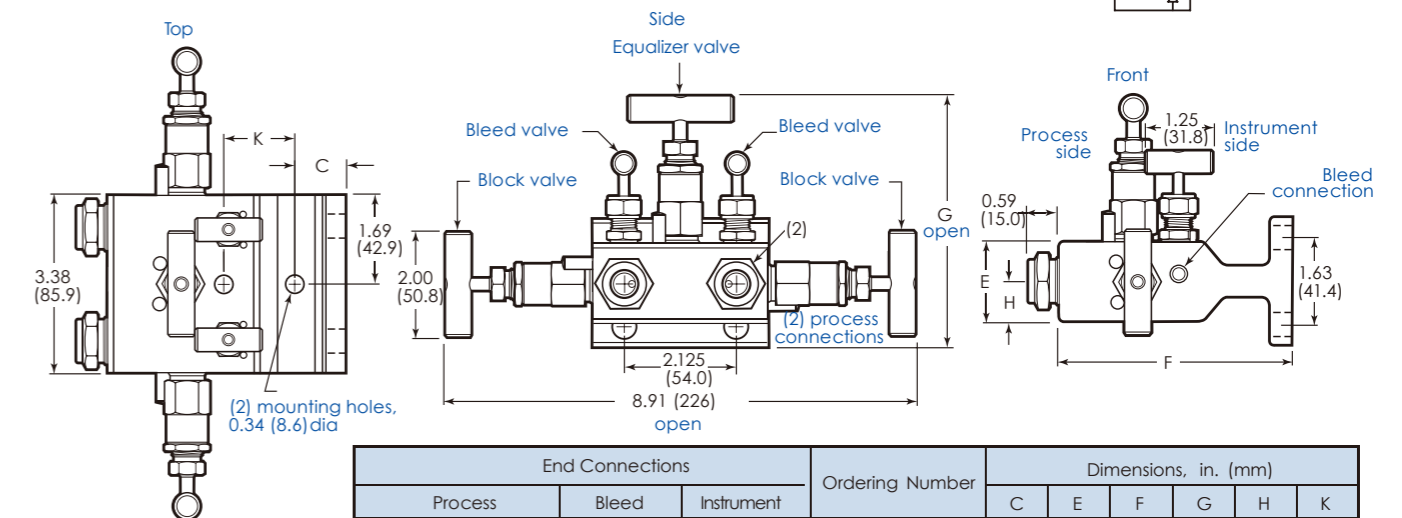
Materials for pressurecontaining wetted parts are in compliance with ASME-B31.1.

Wetted components listed in italics.



**Ordering Information and Dimensions**

Dimensions, in inches (millimeters), are for reference only and are subject to change.



Manifold with female EMT tube fitting-to-flange connections shown.

End Connections			Ordering Number	Dimensions, in. (mm)					
Process	Bleed	Instrument		C	E	F	G	H	K
1/2 in. female NPT		1/8 in. female NPT	EMT-WFZB-8	1.21 (30.7)	1.31 (33.3)	3.62 (91.9)	4.08 (104)	0.61 (15.5)	1.88 (47.8)
1/2 in. female NPT	Flange (MSS)		EMT-WFZB-8-FL	0.94 (23.9)	1.49 (37.8)	4.47 (114)	4.76 (121)	0.71 (18.0)	1.35 (34.3)
1/2 in. female EMT tube fitting			EMT-WFZB-S8	1.22 (31.0)	1.31 (33.3)	3.55 (90.2)	4.08 (104)	0.61 (15.5)	1.88 (47.8)
1/2 in. female EMT tube fitting	Flange (MSS)		EMT-WFZB-S8-FL	0.94 (23.9)	1.49 (37.8)	4.43 (113)	4.71 (120)	0.75 (19.1)	1.35 (34.3)

# Check Valves



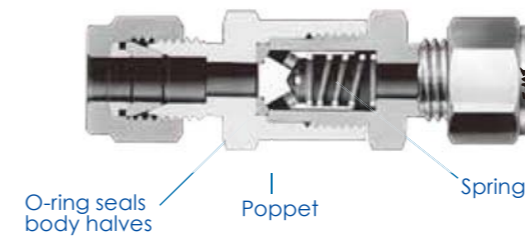
- Working pressures up to 6000 psig (413 bar)
- Adjustable and fixed cracking pressures
- Variety of end connections
- 316 stainless steel and brass materials

## Features

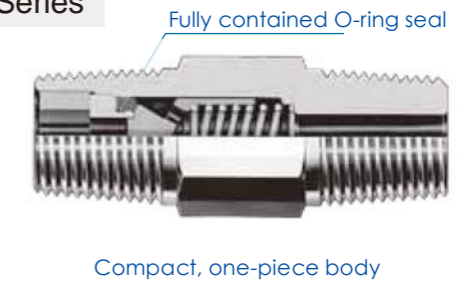
### Fixed Cracking Pressures

From 1/3 to 25 psi (0.02 to 1.7 bar)

#### F Series

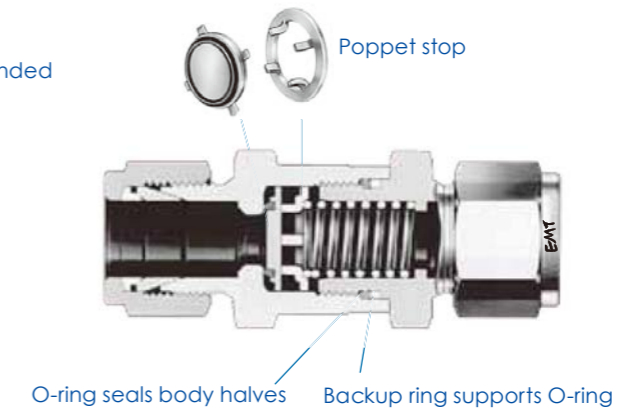


#### FP Series



#### FH Series

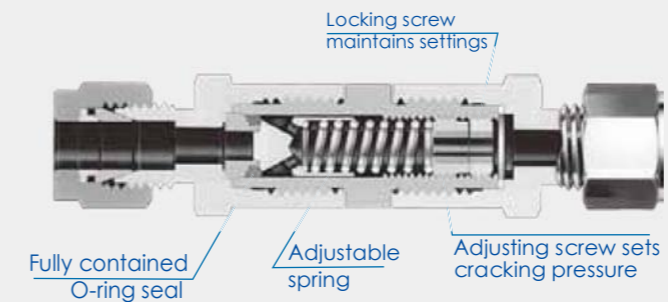
Poppet with bonded elastomer seal



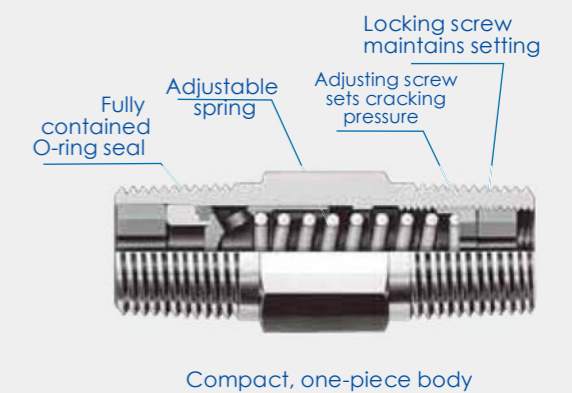
### Adjustable Cracking Pressures

From 3 to 600 psi (0.20 to 41.3 bar)

#### FA Series



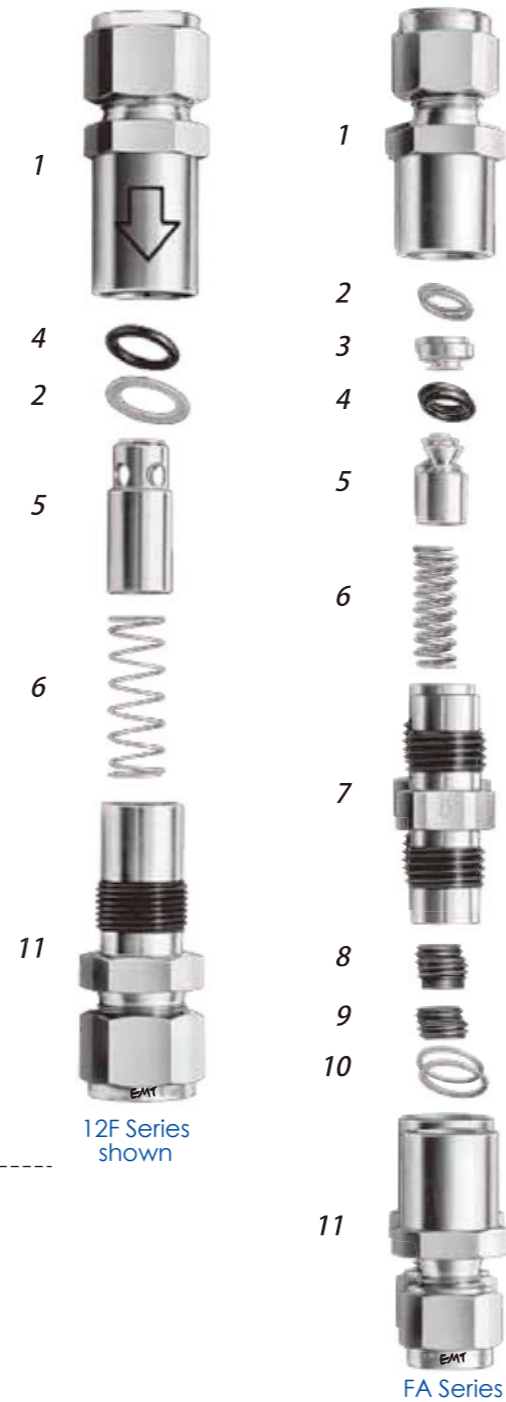
#### FPA Series





## Materials of Construction F and FA Series

Component	Valve Body Materials	
	316 SS	Brass
	Material Grade/ASTM Specification	
1 Inlet body	316 SS/A479	brass 360/B16
2 Inlet gasket (CA series)	PTFE-coated 316 SS/A240	
Inlet gasket (standard for 6F and 8F series with >50psi[3.5 bar] spring; optional for 2F and 4F series and all other 6F and 8F series)	PTFE-coated 316 SS/A240	
Inlet gasket (12F and 16F series)	PTFE-coated 316SS/A240	PTFE-coated aluminum/B209
3 Insert (FA series)	316 SS/A479	Naval brass 485/B21
4 O-ring	Fluorocarbon FKM	Buna N
5 Poppet	316 SS/A479	brass 360/B16
6 Spring	302 SS/A313	
7 Center body (FA series)	316 SS/A479	Brass 360/B16
8 Adjusting screw (FA series)	316 SS/A276	
9 Locking screw (FA series)		
10 Outlet gasket (FA series)	PTFE-coated 316 SS/A240	
11 Outlet body	316 SS/A479	Brass 360/B16
Wetted lubricant	Molybdenum disulfide-based	Silicone-based (F series); PTFE-based (FA series)



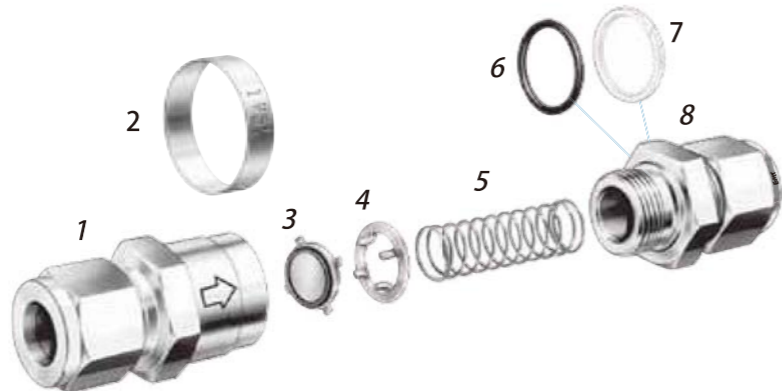
Wetted components listed in

### FH Series

Component	Material Grade/ASTM Specification
1 Inlet body	316 SSA479
2 Poppet	316 SS/A269 or A632
3 Poppet stop	Fluorocarbon FKM-bonded 316 SS/A479
4 Spring	316 SS/A240
5 O-ring	302 SS/A313
6 Backup ring	Fluorocarbon FKM
7 Outlet body	PTFE/D1710
8 Lubricant	316 SS/A479
Wetted lubricant	PTFE-based

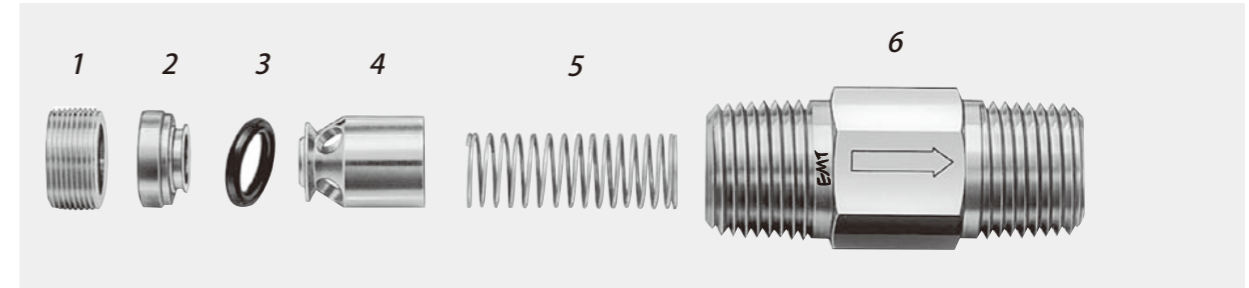
Wetted components listed in *italics*.

① Material Safety Data Sheet for bonding agent available on request.



## Materials of Construction

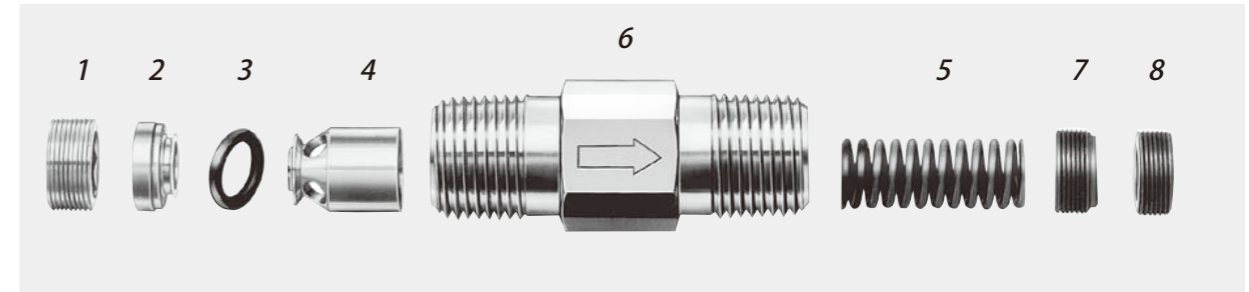
### FP Series



Component	Valve Body Materials				
	316 SS	Brass			
		4FP	8FP	4FPA	8FPA
	Material Grade/Specification				
1 Insert lock screw	316 SS/A276 A479	Brass 485/B21	Brass 360/ B16	Brass 485 /B21	Brass 360/ B16
2 Insert	316 SS/A479	Buna N			
3 O-ring	Fluorocarbon FKM	Brass 360/ASTM B16			
4 Poppet	316 SS/A479	302 SS/A313			
5 Spring	316 SS/A479				
6 Body	Brass 360/ASTM B16				
7 Adjusting screw (CPA series)	316 SS/A276	—		316 SS/A276	Brass 360 <sup>①</sup> ASTM B16
8 Locking screw (CPA series)		Silicone-based and PTFE-based (FPA series)			
Lubricant	Silicone-based and PTFE-based (FP series) PTFE-based (FPA series)		Silicone-based and PTFE-based		

Wetted components listed in *italics*.

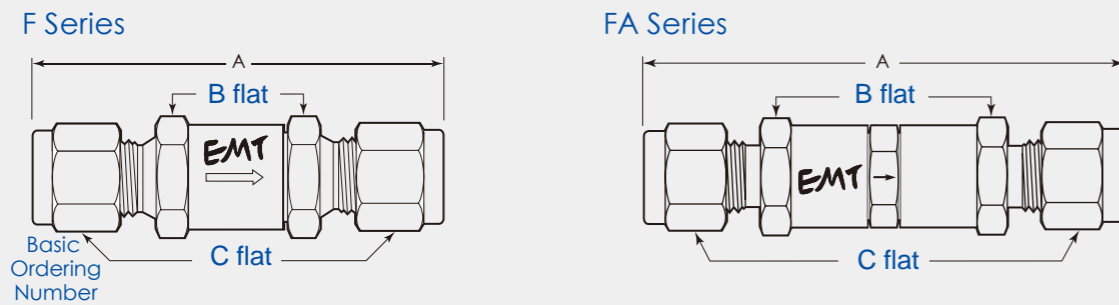
### FPA Series



① Adjusting screw in valve with 150 or 350 psi (10. 4 or 24. 2 bar) spring is 316 SS

# Dimensions

Dimensions, shown with EMT tube fitting nuts finger-tight, are for reference only and are subject to change



End Connections		Basic Ordering Number	Series	Dimensions, in. (mm)		
Inlet/Outlet	Size			A	B	C
Fixed Cracking Pressure, C Series						
Fractional EMT tube fittings	1/8 in.	EMT-DXF-02-SS	02	2.14 (543)	5/8	7/16
	1/4 in.	EMT-DXF-04-SS	04	2.35 (59.7)		9/16
	3/8 in.	EMT-DXF-06-SS	06	3.17 (80.5)	7/8	11/16
	1/2 in.	EMT-DXF-08-SS	08	3.42 (86.9)		7/8
	3/4 in.	EMT-DXF-12-SS	12	4.32 (110)	1 1/4	1 1/8
Metric EMT tube fittings	1 in.	EMT-DXF-16-SS	16	4.74 (120)	1 3/8	1 1/2
	6 mm	EMT-DXF-F-06-SS	06	2.36 (59.9)	5/8	(14)
	8 mm	EMT-DXF-F-08-SS	08	3.32 (84.3)	7/8	(19)
	10 mm	EMT-DXF-F-10-SS				
12 mm	EMT-DXF-F-12-SS	(22)				
Female NPT	1/8 in.	EMT-DXFF-F-02-SS	02	1.89 (48.0)	5/8	-
	1/4 in.	EMT-DXFF-F-04-SS	04	2.15 (54.6)	3/4	
	3/8 in.	EMT-DXFF-F-06-SS	06	2.98 (75.7)	7/8	
	1/2 in.	EMT-DXFF-F-08-SS	08	3.58 (90.9)	1 1/16	
	3/4 in.	EMT-DXFF-F-12-SS	12	4.08 (104)	1 1/4	
	1 in.	EMT-DXFF-F-16-SS	16	4.84 (123)	1 5/8	
Male NPT	1/8 in.	EMT-DXFM-F-02-SS	02	1.71 (43.4)	5/8	-
	1/4 in.	EMT-DXFM-F-04-SS	04	2.09 (53.1)		
	3/8 in.	EMT-DXFM-F-06-SS	06	2.78 (70.6)	7/8	
	1/2 in.	EMT-DXFM-F-08-SS	08	3.16 (80.3)		
	3/4 in.	EMT-DXFM-F-12-SS	12	4.08 (104)	1 1/4	
	1 in.	EMT-DXFM-F-16-SS	16	4.52 (115)	1 5/8	

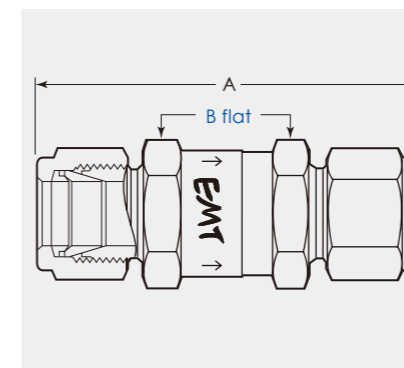
# Dimensions

Dimensions, shown with EMT tube fitting nuts finger-tight, are for reference only and are subject to change

End Connections		Pressure Rating at psig (bar)	Basic Ordering Number	Series	Dimensions in. (mm)	
Type	Size				A	B
Fractional EMT tube fitting	1/8 in.	6000 (413)	EMT-CHS2-SS	CH4	2.27 (57.7)	11/16
	1/4 in.		EMT-CHS4-SS			
	3/8 in.		EMT-CHS6-SS			
	1/2 in.	5000 (344)	EMT-CHS8-SS	CH8	2.75 (69.9)	1
	3/4 in.		EMT-CHS12-SS			
	1 in.		EMT-CHS16-SS	CH16	3.52 (89.4)	1 5/8
Metric EMT tube fitting	6 mm	6000 (413)	EMT-CHS6M-SS	CH4	2.43 (61.7)	11/16
	8 mm		EMT-CHS8M-SS			
	10 mm		EMT-CHS10M-SS	CH8	2.80 (71.1)	1
	12 mm	EMT-CHS12M-SS				
	22 mm	4900 (337)	EMT-CHS22M-SS	CH16	3.48 (88.4)	1 5/8
	25 mm		EMT-CHS25M-SS		3.88 (98.6)	
Female NPT	1/4 in.	6000 (413)	EMT-CHF4-SS	CH4	2.13 (54.1)	11/16
	3/8 in.	5300 (365)	EMT-CHF6-SS	CH8	2.55 (64.8)	1
	1/2 in.	4900 (337)	EMT-CHF8-SS		3.03 (77.0)	1 1/16
	3/4 in.	4600 (316)	EMT-CHF12-SS	CH16	3.23 (82.0)	1 5/8
	1 in.		EMT-CHF16-SS		3.83 (97.3)	
Male NPT	1/8 in.	6000 (413)	EMT-CHM2-SS	CH4	1.79 (45.5)	11/16
	1/4 in.		EMT-CHM4-SS			
	3/8 in.		EMT-CHM6-SS	CH8	2.36 (59.9)	1
	1/2 in.	EMT-CHM8-SS				
	3/4 in.	5000 (344)	EMT-CHM12-SS	CH16	3.29 (83.6)	1 5/8
	1 in.		EMT-CHM16-SS		3.67 (93.2)	

① See specifications ISO 7/1, BS EN 10226-1, DIN 2999, JIS B0203

## FH Series

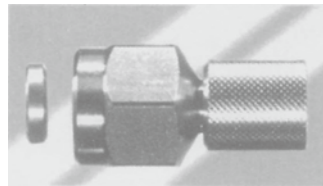


## Ordering Information

To order, add a cracking pressure designator to the basic ordering number

Cracking Pressure psig (bar)	Designator
1/3 (0.03)	1/3
1 (0.07)	1
5 (0.35)	5
10 (0.69)	10
25 (1.8)	25

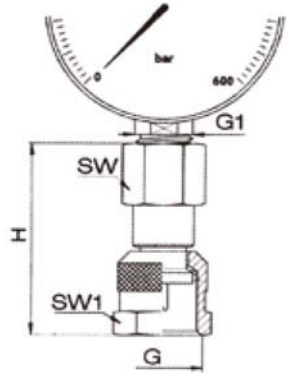
⚠ Check valves are designed for directional flow control only. EMT check valves should never be used as code safety relief devices.



Gauge adaptor SMD is used for connecting MAS/MAA test adaptor and gauge  
The thread of gauge is G1 (BSPP) or NPT thread

Carbon Steel Fitting Code	G	G1	H	SW	SW1	bar
SWD20-G1/4	M16X2	G1/4"	50	19	19	630
SWD20-G1/2	M16X2	G1/2"	55	27	19	630

Stainless Steel Fitting Code	G	G1	H	SW	SW1	bar
SMD20-G1/4-SS	M16X2	G1/4"	41	19	19	630
SMD20-G1/2-SS	M16X2	G1/2"	51	27	19	630
SMD20-1/4NPT-SS	M16X2	1/4"NPT	41	19	19	630
SMD20-1/2NPT-SS	M16X2	1/2"NPT	51	27	19	630



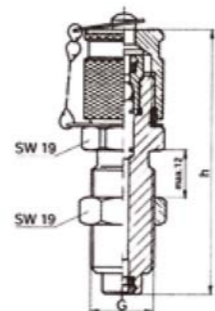
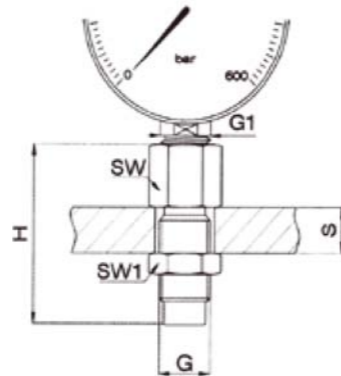
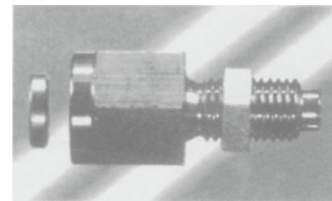
Gauge adaptor SMA is used for connecting TN test hose fitting and gauge  
The thread of gauge is G1 (BSPP) or NPT thread

Carbon Steel Fitting Code	G	G1	H	SW	SW1	S	bar
SMA20-G1/4	M16X2	G1/4"	50	19	19	11	630
SMA20-G1/2	M16X2	G1/2"	57	27	19	13	630

Stainless Steel Fitting Code	G	G1	H	SW	SW1	S	bar
SMA20-G1/4-SS	M16X2	G1/4"	50	19	19	11	630
SMA20-G1/2-SS	M16X2	G1/2"	60	27	19	11	630
SMA20-1/4NPT-SS	M16X2	1/4"NPT	50	19	19	11	630
SMA20-1/2NPT-SS	M16X2	1/2"NPT	60	27	19	11	630

Bulkhead test adaptor SSK ( both side can connect test hose TN and adaptor)  
Material: carbon steel

model	G	H	bar
SSK20	M16X2	72	630



### 1) Test pressure hose

Test pressure hose	
model: RSO	
outer diameter	5.5
inner diameter	2.2
Max working pressure	630
Burst pressure	1900
Mix bending radius	20
working	-40°C~+100°C

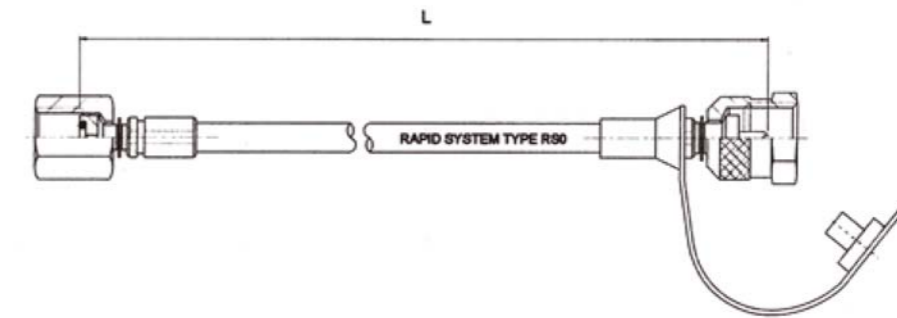
Note: Applied to mineral oil, hydraulic oil, brake oil, water and other non-corrosive liquids.

Test pressure hose	
model: RSO	
outer diameter	5.5
inner diameter	2.1
Max working pressure	150
Burst pressure	600
Mix bending radius	20
working	-40°C~+100°C

Note: Applied to gas and coolant.

### 2) Test hose assembly

Length can be decided by customer.



### 3) Order code

**RSO-TN / G1/4 -1500**

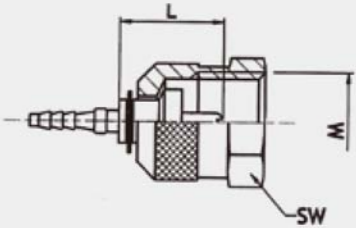
Hose type  
 RSO:hose for liquid  
 RFR:hose for gas

length of hose (Length can be decided by customer.) "1500" means that the length is 1500mm. one end for the adaptor type

one end for the adaptor type

Usage: used to install on the test hose.

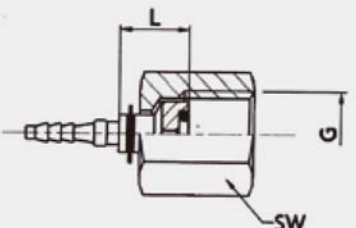
Material: TN adaptor is supplied in carbon steel and stainless steel . the other adaptor generally is supplied in carbon steel. If the quantity is big enough, stainless steel is also can be supplied.



Push-in hose fitting ( directly connecting measuring adaptor)

Ordering Code	M	L	SW	bar
TN	M16X2	18.5	19	630

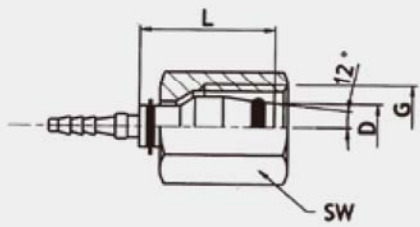
The material is stainless steel if suffixing SS after the model. For example, TN-SS



hose fitting of directly connecting gauge

Ordering Code	G	L	SW	bar
G1/4	G1/4"	11.5	19	630
G1/2	G1/2"	19.5	27	630
M14X1.5	M14X1.5	11.5	19	630
M20X1.5	M20X1.5	19.5	27	630

DIN2353 metric thread, 90 degree hose fitting in 24 degree thread

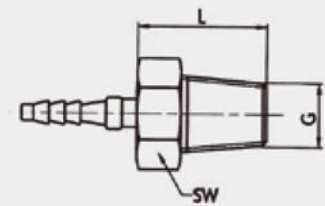
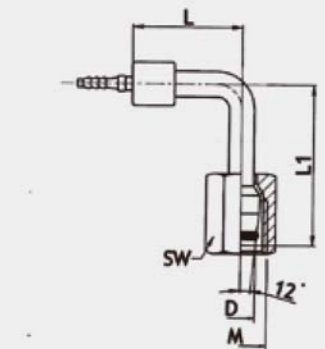


Ordering Code	M	D	L	SW	bar
K6L	M12X1.5	6(L)	18	14	315
K6S	M14X1.5	6(S)	18	17	630
K8L	M14X1.5	8(L)	18	17	315
K8S	M16X1.5	8(L)	18	19	630
K10L	M16X1.5	10(L)	18	19	315
K10S	M18X1.5	10(S)	18	22	630

Tapered thread hose fitting

Ordering Code	M	D	L	L1	SW	bar
L6L	M12X1.5	6(L)	24	33	14	315

Ordering Code	G	L	SW	bar
R1/8	R1/8" K	15	12	400
NPT1/8	1/8" NPT	15	12	400



Application: used in the occasions with pressure fluctuations or strong vibration such as, hydraulic system, high-pressure compressors, drilling equipment, stamping equipment.

EG41 brass core pressure gauge is used for the non-corrosive media such as hydraulic oil, gas. And EG61 stainless steel pressure gauge can be used in corrosive media. Structure: EG41 series shock-proof pressure gauge is made up of copper core (bourdon tube) and stainless steel outer covering, with Shock-proof oil in the gauge. EG41 series are pressure gauge made in all stainless steel, the piezometric components of bourdon tube are also 316 stainless steel, with Shock-proof oil in the gauge Accuracy grade: the gauge of 100 diameter is 2.5(±2.5% FS), the gauge of 60 diameter is 2.5(±2.5% FS),

Gauge panel: Mpa (bar) Medium temperature: Max +70 °C

Environment temperature: -20 °C —60 °C



Material sheet

Type for gauge	Outer covering	adaptor	Bourdon tubes	Lens	Dialplate
EG41 Serie	300serie stainless steel	Brass alloy	Brass alloy	PC lens connecting the body by rubber gasket	Aluminum Plate

