

TWIN FERRULES COMPRESSION FITTINGS



 **Tecra**
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• Gaugeability

Tecra tube fittings are produced in accordance with the exact and tight tolerance. Without such close tolerance, the interaction of the nut, the ferrules and the body would not be interacted properly.

• Interchangeability

Tecra tube fittings can be interchanged with the tube fittings which are manufactured by the international standard.

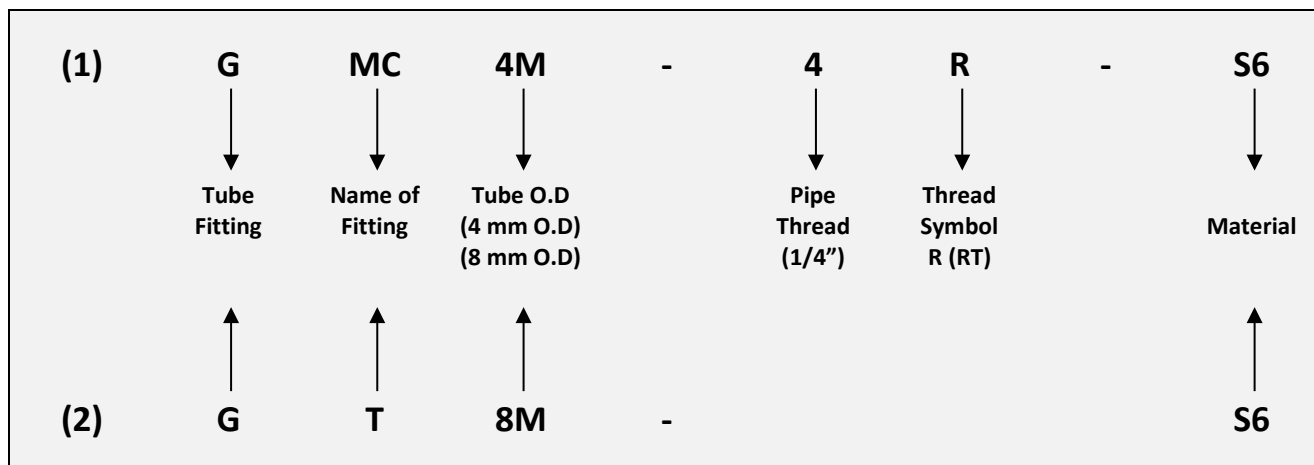
• Corrosion Resistance

Tecra ferrules have the strongest corrosion resistance by our own special hardening process. It has been proved in various 22of industrial areas for some decades.

• Less Torque and Anti Distortion

When the nut is tightened, both ferrules are driven forward between the nut and the body. This axial movement doesn't transfer any torque from the fitting to the tubing when original tubing's mechanical properties are maintained.

HOW TO ORDER



Tube O.D Designator			
Inch O.D.	Identifier	Metric O.D	Identifier
1/16"	1	2 mm	2M
1/8"	2	3 mm	3M
3/16"	3	4 mm	4M
1/4"	4	6 mm	6M
5/16"	5	8 mm	8M
3/8"	6	10 mm	10M
1/2"	8	12 mm	12M
5/8"	10	16 mm	16M
3/4"	12	20 mm	20M
7/8"	14	22 mm	22M
1"	16	25 mm	25M
1.1/4"	20	28 mm	28M
1.1/2"	24	32 mm	32M
2"	32	38 mm	38M
		42 mm	42M

Pipe Thread Size Designator	
Nom. Size	Identifier
1/8"	2
1/4"	4
3/8"	6
1/2"	8
3/4"	12
1"	16
1.1/4"	20
1.1/2"	24
2"	32

Fitting Material Designator	
Material	Identifier
SS316	S6
SS316L	6L
SS304	S4

Pipe Thread Symbol				
Type	Taper Threads		Parallel Threads	
Symbol	R	N	G	U
Specifications	ISO 7/1, BS 21 (BSPT) JIS B 0203 (PT) DIN 2999	ANSI B 1.20.1 (NPT)	ISO 228/1 BS 2779 (BSPP) JIS B 0202 (PF)	American Standard Unified Screw Threads

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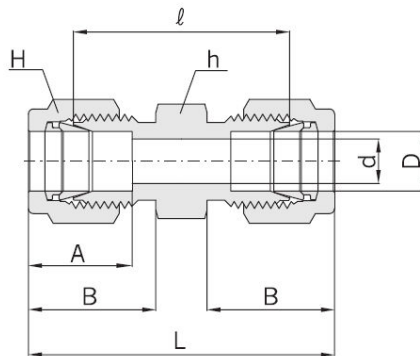
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Ferrule & Nut Set
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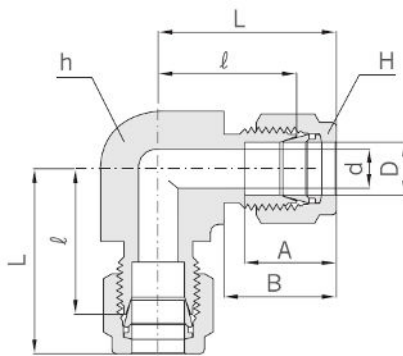
Union Mod. GU



Connects Fractional Tube											
Part No.	Tube O.D.		d Min.	Width across flat				A	B	ℓ	L
	D			h		H					
	in	mm		in	mm	in	mm				
GU-1	1/16	1.58	1.27	5/16	7.93	5/16	7.93	8.63	10.92	17.50	25.15
GU-2	1/8	3.17	2.28	7/16	11.11	7/16	11.11	12.70	15.24	22.35	35.56
GU-3	3/16	4.76	3.04	7/16	11.11	1/2	12.70	13.71	16.00	24.13	37.33
GU-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	26.16	40.89
GU-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	28.19	42.92
GU-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	30.22	44.95
GU-8	1/2	12.70	10.41	13/16	20.63	7/8	22.22	22.86	21.84	30.98	51.30
GU-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	31.75	52.07
GU-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	33.27	53.59
GU-14	7/8	22.22	18.28	1-3/16	30.16	1-1/4	31.75	25.90	21.84	35.05	55.37
GU-16		25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	40.38	64.77
GU-20	1 1/4	31.75	27.68	1-3/4	44.45	1-7/8	47.62	41.14	38.86	48.00	92.20
GU-24	1 1/2	38.10	34.03	2-1/8	53.97	2-1/4	57.15	50.03	45.21	53.60	107.95
GU-32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	74.70	149.35

Connects Metric Tube								
Part No.	Tube O.D. D	d Min.	Width across flat		A	B	ℓ	L
			h	H				
GU-2M	2	1.7	12	12	12.9	15.3	22.4	35.6
GU-3M	3	2.4	12	12	12.9	15.3	22.1	35.3
GU-4M	4	2.4	12	12	13.7	16.1	24.1	37.3
GU-6M	6	4.8	14	14	15.3	17.7	26.2	41.0
GU-8M	8	6.3	14	16	16.2	18.6	28.2	43.2
GU-10M	10	7.9	18	19	17.2	19.5	31.0	46.2
GU-12M	12	9.5	22	22	22.8	22.0	31.0	51.2
GU-15M	15	11.9	24	25	24.4	22.0	31.8	52.0
GU-16M	16	12.7	24	25	24.4	22.0	31.8	52.0
GU-18M	18	15.1	27	30	24.4	22.0	33.3	53.5
GU-20M	20	15.9	30	32	26.0	22.0	34.8	55.0
GU-22M	22	18.3	30	32	26.0	22.0	34.8	55.0
GU-25M	25	21.8	35	38	31.3	26.5	40.4	65.0
GU-28M	28	21.8	41	46	36.6	36.5	43.4	85.0
GU-32M	32	28.6	46	50	42.0	41.6	51.3	97.3
GU-38M	38	33.7	55	60	49.4	47.9	58.4	113.6
GU-42M	42	33.7	55	65	55.1	53.6	64.0	126.2

Union Elbow Mod. GL



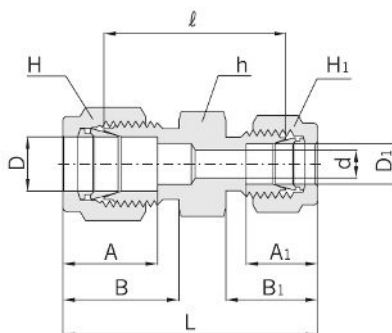
Connects Fractional Tube

Part No.	Tube O.D.		d Min.	Width across flat				A	B	ℓ	L
	D			h		H					
	in	mm		in	mm	in	mm				
	in	mm		in	mm	in	mm				
GL-1	1/16	1.58	1.27	7/16	11.11	5/16	7.93	8.63	10.92	14.00	17.88
GL-2	1/8	3.17	2.28	7/16	11.11	7/16	11.11	12.70	15.24	15.74	22.35
GL-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.38
GL-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
GL-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
GL-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
GL-8	1/2	12.70	10.41	13/16	20.63	7/8	22.22	22.86	21.84	25.90	36.06
GL-10	5/8	15.87	12.70	15/16	23.80	1	25.40	24.38	21.84	28.70	38.80
GL-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	29.71	39.87
GL-14	7/8	22.22	18.28	1-3/16	30.00	1-1/4	31.75	25.90	21.84	34.54	44.70
GL-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02
GL-20	1.1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.62	41.14	38.86	44.50	66.54
GL-24	1.1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
GL-32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18

Connects Metric Tube

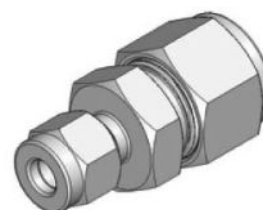
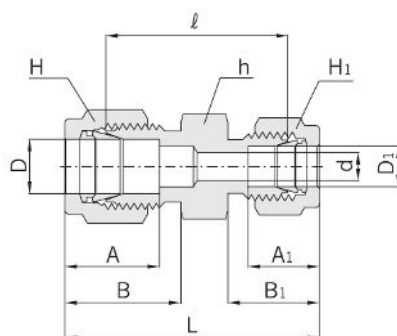
Part No.	Tube O.D. D	d Min.	Width across flat		A	B	ℓ	L
			h	H				
GL-2M	2	1.7	11.11	12	12.9	15.3	15.7	22.3
GL-3M	3	2.4	11.11	12	12.9	15.3	15.7	22.3
GL-4M	4	2.4	12.7	12	13.7	16.4	18.8	25.4
GL-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
GL-8M	8	6.3	14.3	16	16.2	18.6	21.3	28.8
GL-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
GL-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
GL-15M	15	11.9	23.8	25	24.4	22.0	28.7	38.8
GL-16M	16	12.7	23.8	25	24.4	22.0	28.7	38.8
GL-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
GL-20M	20	15.9	30.0	32	26.0	22.0	32.5	42.6
GL-22M	22	18.3	30.0	32	26.0	22.0	32.5	42.6
GL-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1
GL-28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0
GL-32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3
GL-38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0
GL-42M	42	36.0	55.0	65	55.1	53.6	58.0	89.1

Reducing Union Mod. GRU



Connects Fractional Tube																	
Part No.	Tube O.D.				E	Width across flat						A	A1	B	B1	ℓ	L
	D		D1			h		H		H1							
	in	mm	in	mm		Min.	in	mm	in	mm	in						
GRU-2-1	1/8	3.18	1/16	1.59	1.27	7/16	11.11	7/16	11.11	5/16	7.93	12.70	8.63	15.24	10.92	20.60	30.91
GRU 3-1	3/16	4.76	1/16	1.59	1.27	7/16	11.11	1/2	12.70	5/16	7.93	13.71	8.63	16.00	10.92	21.84	32.25
GRU 3-2	3/16	4.76	1/8	3.17	2.28	7/16	11.11	1/2	12.70	7/16	11.11	13.71	12.70	16.00	15.24	23.36	36.57
GRU 4-1	1/4	6.35	1/16	1.59	1.27	1/2	12.70	9/16	14.28	5/16	7.93	15.24	8.63	17.78	10.92	23.11	34.29
GRU 4-2	1/4	6.35	1/8	3.17	2.28	1/2	12.70	9/16	14.28	7/16	11.11	15.24	12.70	17.78	15.24	24.63	38.60
GRU 4-3	1/4	6.35	3/16	4.76	3.04	1/2	12.70	9/16	14.28	1/2	12.70	15.24	13.71	17.78	16.00	25.40	39.37
GRU 5-2	5/16	7.93	1/8	3.17	2.28	9/16	14.28	5/8	15.87	7/16	11.11	16.25	12.70	18.54	15.24	25.90	39.87
GRU 5-4	5/16	7.93	1/4	6.35	4.82	9/16	14.28	5/8	15.87	9/16	14.28	16.25	15.24	18.54	17.78	27.43	42.16
GRU 6-1	3/8	9.52	1/16	1.59	1.27	5/8	15.87	11/16	17.46	5/16	7.93	16.76	8.63	19.30	10.92	25.40	36.57
GRU 6-2	3/8	9.52	1/8	3.17	2.28	5/8	15.87	11/16	17.46	7/16	11.11	16.76	12.70	19.30	15.24	26.92	40.89
GRU 6-4	3/8	9.52	1/4	6.35	4.82	5/8	15.87	11/16	17.46	9/16	14.28	16.76	15.24	19.30	17.78	28.44	43.18
GRU 6-5	3/8	9.52	5/16	7.93	6.35	5/8	15.87	11/16	17.46	5/8	15.87	16.76	16.25	19.30	18.54	29.46	44.19
GRU 8-2	1/2	12.70	1/8	3.17	2.28	13/16	20.64	7/8	22.22	7/16	11.11	22.86	12.70	21.84	15.24	28.44	45.21
GRU 8-4	1/2	12.70	1/4	6.35	4.82	13/16	20.64	7/8	22.22	9/16	14.28	22.86	15.24	21.84	17.78	29.46	46.99
GRU 8-6	1/2	12.70	3/8	9.52	7.11	13/16	20.64	7/8	22.22	11/16	17.46	22.86	16.76	21.84	19.30	30.98	48.51
GRU 10-6	5/8	15.87	3/8	9.52	7.11	15/16	23.81	1	25.40	11/16	17.46	24.38	16.76	21.84	19.30	31.75	49.27
GRU 10-8	5/8	15.87	1/2	12.70	10.41	15/16	23.81	1	25.40	7/8	22.22	24.38	22.86	21.84	21.84	31.75	52.07
GRU 12-4	3/4	19.05	1/4	6.35	4.82	1-1/16	23.81	1-1/8	28.57	9/16	14.48	24.38	15.24	21.84	17.78	31.75	49.27
GRU 12-6	3/4	19.05	3/8	9.52	7.11	1-1/16	26.98	1-1/8	28.57	11/16	17.46	24.38	16.76	21.84	19.30	33.27	50.80
GRU 12-8	3/4	19.05	1/2	12.70	10.41	1-1/16	26.98	1-1/8	28.57	7/8	22.22	24.38	22.86	21.84	21.84	33.27	53.59
GRU 12-10	3/4	19.05	5/8	15.87	12.70	1-1/16	26.98	1-1/8	28.57	1	25.40	24.38	24.38	21.84	21.84	33.27	53.59
GRU 16-8	1	25.40	1/2	12.70	10.41	1-3/8	34.92	1-1/2	38.10	7/8	22.22	31.24	22.86	26.41	21.84	40.89	63.24
GRU 16-12	1	25.40	3/4	19.05	15.74	1-3/8	34.92	1-1/2	38.10	1-1/8	28.58	31.24	24.38	26.41	21.84	40.38	62.73

Reducing Union Mod. GRU



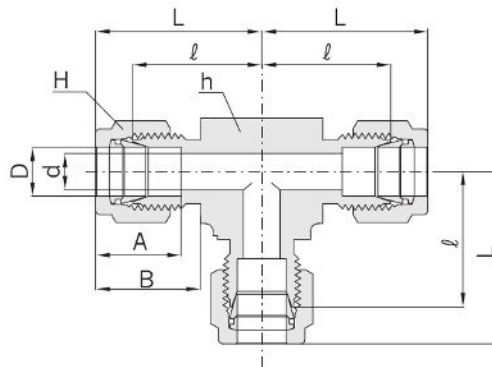
Connects Metric Tube

Part No.	Tube O.D.		d Min.	Width across flat			A	A1	B	B1	ℓ	L
	D	D1		h	H	H1						
GRU 3M-2M	3	2	1.7	12	12	12	12.9	12.9	15.3	15.3	22.1	35.3
GRU 6M-2M	6	2	1.7	14	14	12	15.3	12.9	17.7	15.3	24.6	38.6
GRU 6M-3M	6	3	2.4	14	14	12	15.3	12.9	17.7	15.3	24.6	38.6
GRU 6M-4M	6	4	2.4	14	14	12	15.3	13.7	17.7	16.1	25.4	39.4
GRU 8M-6M	8	6	4.8	14	16	14	16.2	15.3	18.6	17.7	27.4	42.3
GRU 10M-6M	10	6	4.8	18	19	14	17.2	15.3	19.5	17.7	29.5	44.5
GRU 10M-8M	10	8	6.3	18	19	16	17.2	16.2	19.5	18.6	30.0	45.1
GRU 12M-6M	12	6	4.8	22	22	14	22.8	15.3	22.0	17.7	29.5	47.0
GRU 12M-8M	12	8	6.3	22	22	16	22.8	16.2	22.0	18.6	30.2	47.8
GRU 12M-10M	12	10	7.9	22	22	19	22.8	17.2	22.0	19.5	31.0	48.7
GRU 16M-10M	16	10	7.9	24	25	19	24.4	17.2	22.0	19.5	31.8	49.5
GRU 16M-12M	16	12	9.5	24	25	22	24.4	22.8	22.0	22.0	31.8	52.0
GRU 18M-12M	18	12	9.5	27	30	22	24.4	22.8	22.0	22.0	33.3	53.5
GRU 25M-18M	25	18	15.1	35	38	30	31.3	24.4	26.5	22.0	38.6	61.0
GRU 25M-20M	25	20	15.9	35	38	32	31.3	26.0	26.5	22.0	39.9	62.3

Connects Metric Tube to Francional tube

Connects Metric Tube to Frantcional tube													
Part No.	Tube O.D.			d Min.	Width across flat			A	A1	B	B1	ℓ	L
	D	D1			h	H	H1						
		In	mm										
GRU 3M-2	3	1/8	3.17	2.3	12.0	12	11.1	12.9	12.8	15.3	15.2	22.1	35.2
GRU 4M-2	4	1/8	3.17	2.3	12.0	12	11.1	13.7	12.8	16.1	15.2	23.4	36.5
GRU 4M-4	4	1/4	6.35	2.4	14.0	12	14.3	13.7	15.3	16.1	17.7	25.4	39.4
GRU 6M-2	6	1/8	3.17	2.3	14.0	14	11.1	15.3	12.8	17.7	15.2	24.6	38.5
GRU 6M-4	6	1/4	6.35	4.8	14.0	14	14.3	15.3	15.3	17.7	17.7	26.2	41.0
GRU 6M-5	6	5/16	7.93	4.8	14.2	14	15.9	15.3	16.2	17.7	18.6	27.4	42.3
GRU 8M-4	8	1/4	6.35	4.8	15.0	16	14.3	16.2	15.3	18.6	17.7	27.4	42.3
GRU 10M-2	10	1/8	3.17	2.3	18.0	19	11.1	17.2	12.8	19.5	15.2	27.7	41.8
GRU 10M-4	10	1/4	6.35	4.8	18.0	19	14.3	17.2	15.3	19.5	17.7	29.5	44.5
GRU 10M-5	10	5/16	7.93	6.3	18.0	19	15.9	17.2	16.2	19.5	18.6	30.3	45.1
GRU 10M-6	10	3/8	9.52	7.1	18.0	19	17.5	17.2	16.9	19.5	19.2	31.0	45.9
GRU 12M-5	12	5/16	7.93	6.3	22.0	22	15.9	22.8	16.2	22.0	18.6	30.3	47.8
GRU 12M-6	12	3/8	9.52	7.1	22.0	22	17.5	22.8	16.9	22.0	19.2	31.0	48.4
GRU 12M-8	12	1/2	12.70	9.5	22.0	22	22.2	22.8	22.8	22.0	22.0	31.0	51.2
GRU 15M-8	15	1/2	12.70	10.4	24.0	25	22.2	24.4	22.8	22.0	22.0	31.8	52.0
GRU 16M-10	16	5/8	15.87	12.7	24.0	25	25.4	24.4	24.4	22.0	22.0	31.8	52.0
GRU 18M-12	18	3/4	19.05	15.1	27.0	30	28.6	24.4	24.4	22.0	22.0	33.3	53.5
GRU 20M-12	20	3/4	19.05	15.7	30.0	32	28.6	26.0	24.4	22.0	22.0	34.8	54.9
GRU 20M-16	20	1	25.40	15.9	34.9	32	38.1	26.0	31.2	22.0	26.4	38.0	60.3
GRU 22M-16	22	1	25.40	18.3	34.9	32	38.1	26.0	31.2	22.0	26.4	38.2	60.3

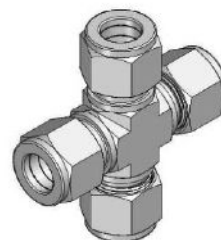
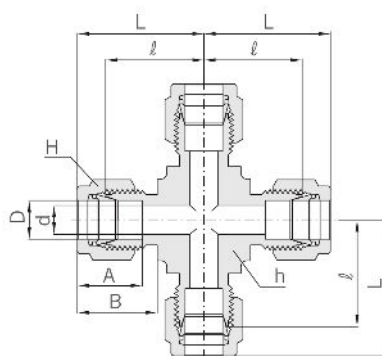
Union Tee Mod. GT



Connects Fractional Tube											
Part No.	Tube O.D.		d Min.	Width across flat				A	B	ℓ	L
	D			h		H					
	in	mm		in	mm	in	mm				
GT-1	1/16	1.58	1.27	7/16	11.11	5/16	7.93	8.63	10.92	14.00	17.88
GT-2	1/8	3.17	2.28	7/16	11.11	7/16	11.11	12.70	15.24	15.74	22.35
GT-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.38
GT-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
GT-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
GT-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
GT-8	1/2	12.70	10.41	13/16	20.63	7/8	22.22	22.86	21.84	25.90	36.06
GT-10	5/8	15.87	12.70	15/16	23.80	1	25.40	24.38	21.84	28.70	38.80
GT-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	29.71	39.87
GT-14	7/8	22.22	18.28	1-3/16	30.00	1-1/4	31.75	25.90	21.84	34.54	44.70
GT-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02
GT-20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.62	41.14	38.86	44.50	66.54
GT-24	1-1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
GT-32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18

Connects Metric Tube									
Part No.	Tube O.D. D	E Min.	Width across flat		A	B	ℓ	L	
			h	H					
GT-2M	2	1.7	11.11	12	12.9	15.3	15.7	22.3	
GT-3M	3	2.4	11.11	12	12.9	15.3	15.7	22.3	
GT-4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4	
GT-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0	
GT-8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8	
GT-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5	
GT-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0	
GT-15M	15	11.9	23.8	25	24.4	22.0	28.7	38.8	
GT-16M	16	12.7	23.8	25	24.4	22.0	28.7	38.8	
GT-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8	
GT-20M	20	15.9	30.0	32	26.0	22.0	34.5	42.6	
GT-22M	22	18.3	30.0	32	26.0	22.0	34.5	42.6	
GT-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1	
GT-28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0	
GT-32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3	
GT-38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0	

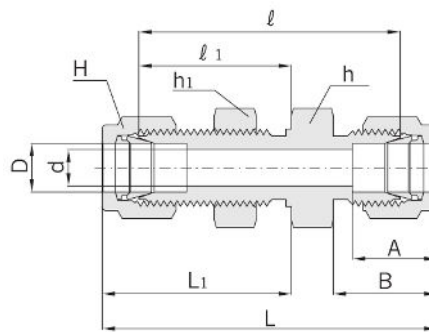
Union Cross Mod. GX



Connects Fractional Tube											
Part No.	Tube O.D.		d Min.	Width across flat				A	B	ℓ	L
	D			h		H					
	in	mm		in	mm	in	mm				
GX-1	1/16	1.58	1.27	7/16	11.11	5/16	7.93	8.63	10.92	14.00	17.88
GX-2	1/8	3.17	2.28	7/16	11.11	7/16	11.11	12.70	15.24	15.74	22.35
GX-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.38
GX-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
GX-5	5/16	7.93	6.35	1/2	12.70	5/8	15.87	16.25	18.54	21.33	28.70
GX-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
GX-8	1/2	12.70	10.41	13/16	20.63	7/8	22.22	22.86	21.84	25.90	36.06
GX-10	5/8	15.87	12.70	1	25.40	1	25.40	24.38	21.84	28.70	38.80
GX-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	29.71	39.87
GX-14	7/8	22.22	18.28	1-3/16	30.00	1-1/4	31.75	25.90	21.84	34.54	44.70
GX-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02

Connects Metric Tube									
Part No.	Tube O.D. D	d Min.	Width across flat		A	B	ℓ	L	
			h	H					
GX-3M	3	2.4	11.11	12	12.9	15.3	15.7	22.3	
GX-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0	
GX-8M	8	6.3	14.2	16	16.2	18.6	21.3	28.8	
GX-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5	
GX-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0	
GX-16M	16	12.7	23.8	25	24.4	22.0	28.7	38.8	
GX-18M	18	15.1	27.0	30	24.4	22.0	28.2	39.8	
GX-20M	20	15.9	30.0	32	26.0	22.0	34.5	42.6	
GX-25M	25	21.8	34.9	38	31.3	22.0	36.8	49.1	

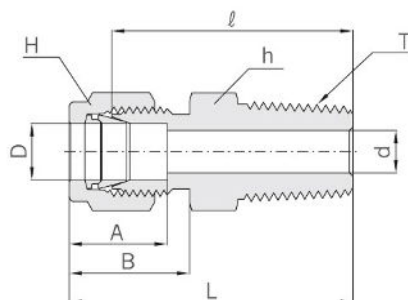
Bulkhead Union Mod. GBU



Connects Fractional Tube															
Part No.	Tube O.D.		d Min.	Width across flat				A	B	ℓ	ℓ1	L	L1	Panel Hole Drill Size	Panel Max Thikness
	D			h, h1		H									
	in	mm		in	mm	in	mm								
GBU-1	1/16	1.59	1.27	5/16	7.93	5/16	7.93	8.63	10.92	23.87	13.46	31.50	17.27	5.16	3.05
GBU-2	1/8	3.17	2.28	1/2	12.70	7/16	11.11	12.70	15.24	38.10	24.63	51.30	31.24	8.33	12.70
GBU-3	3/16	4.76	3.04	9/16	14.28	1/2	12.70	13.71	16.00	40.38	25.40	53.59	32.00	9.92	12.70
GBU-4	1/4	6.35	4.82	5/8	15.87	9/16	14.28	15.24	17.78	42.92	26.16	57.65	33.52	11.50	10.16
GBU-5	5/16	7.93	6.35	11/16	17.46	5/8	15.87	16.25	18.54	45.97	28.44	60.70	35.81	13.09	11.17
GBU-6	3/8	9.52	7.11	3/4	19.05	11/16	17.46	16.76	19.30	47.49	29.46	62.23	36.83	14.68	11.17
GBU-8	1/2	12.70	10.41	15/16	23.81	7/8	22.22	22.86	21.84	50.80	31.75	71.12	41.91	19.44	12.70
GBU-10	5/8	15.87	12.70	1-1/16	26.98	1	25.40	24.38	21.84	52.32	32.51	72.64	42.67	22.62	12.70
GBU-12	3/4	19.05	15.74	1-3/16	30.16	1-1/8	28.57	24.38	21.84	58.67	37.33	78.99	47.49	25.79	16.76
GBU-14	7/8	22.22	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	64.26	42.92	84.58	53.08	28.97	19.05
GBU-16	1	25.40	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	71.37	45.21	95.75	57.40	33.73	19.05
GBU-20	1-1/4	31.75	27.68	1-7/8	47.62	1-7/8	47.62	41.14	38.86	78.99	47.75	123.19	69.85	41.67	19.05
GBU-24	1-1/2	38.10	34.03	2-1/4	57.15	2-1/4	57.15	50.03	45.21	84.83	49.27	139.19	76.45	49.61	19.05
GBU-32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	105.66	56.38	180.34	93.72	67.07	19.05

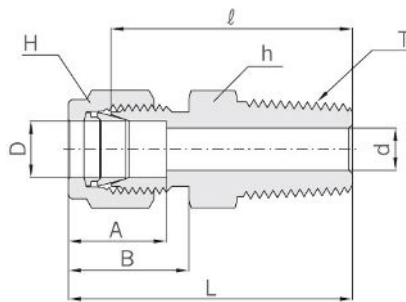
Connects Metric Tube													
Part No.	Tube O.D. D	d Min.	Width across flat			A	B	e	e1	L	L1	Panel Hole Drill Size	Panel Max Thickness
			h	h1	H								
GBU-3M	3	2.4	14.0	12.7	12	12.9	15.3	38.1	24.6	51.3	31.2	8.3	12.7
GBU-4M	4	2.4	14.0	14.3	12	13.7	16.1	40.4	25.4	53.6	32.0	9.9	12.7
GBU-6M	6	4.8	15.8	15.9	14	15.3	17.7	42.9	26.2	57.7	33.6	11.5	10.2
GBU-8M	8	6.3	17.0	17.5	16	16.2	18.6	46.0	28.6	61.0	36.1	13.1	11.2
GBU-10M	10	7.9	22.0	22.0	19	17.2	19.5	48.5	29.4	63.7	37.0	16.2	11.2
GBU-12M	12	9.5	24.0	23.8	22	22.8	22.0	50.8	31.8	71.0	41.9	19.5	12.7
GBU-15M	15	11.9	27.0	27.0	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
GBU-16M	16	12.7	27.0	27.0	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
GBU-18M	18	15.1	30.0	30.0	30	24.4	22.0	58.7	37.3	78.9	47.4	26.0	16.8
GBU-20M	20	15.9	35.0	35.0	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	17.0
GBU-22M	22	18.3	35.0	35.0	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	19.1
GBU-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
GBU-32M	32	28.6	50.0	50.0	50	42.0	41.6	82.3	49.5	128.3	72.5	42.5	19.0
GBU-38M	38	33.7	60.0	60.0	60	49.4	47.9	89.4	51.5	144.6	79.1	50.5	19.0

Male Connector Mod. GMC



Connects Fractional Tube to Male NPT Thread												
Part No.	Tube O.D.		T	d	Width across flat				A	B	ℓ	L
	D				h		H					
	in	mm			NPT	Min	in	mm				
GMC 1-1N	1/16	1.58	1/16	1.27	5/16	7.93	5/16	7.93	8.63	10.92	20.00	23.83
GMC 1-2N	1/16	1.58	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	22.35	26.23
GMC 1-4N	1/16	1.58	1/4	1.27	9/16	14.28	5/16	7.93	8.63	10.92	27.17	30.98
GMC 2-1N	1/8	3.17	1/16	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.11	29.71
GMC 2-2N	1/8	3.17	1/8	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.87	30.48
GMC 2-4N	1/8	3.17	1/4	2.28	9/16	14.28	7/16	11.11	12.70	15.20	28.95	35.56
GMC 2-6N	1/8	3.17	3/8	2.28	11/16	17.46	7/16	11.11	12.70	15.24	29.21	35.81
GMC 2-8N	1/8	3.17	1/2	2.28	7/8	22.22	7/16	11.11	12.70	15.24	35.56	42.16
GMC 3-2N	3/16	4.76	1/8	3.04	7/16	11.11	1/2	12.70	13.71	16.00	24.63	31.24
GMC 3-4N	3/16	4.76	1/4	3.04	9/16	14.28	1/2	12.70	13.71	16.00	29.71	36.32
GMC 4-1N	1/4	6.35	1/16	4.82	1/2	12.70	9/16	14.28	15.24	17.78	25.40	32.76
GMC 4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	25.40	32.76
GMC 4-4N	1/4	6.35	1/4	4.82	9/16	14.28	9/16	14.28	15.24	17.78	30.48	37.84
GMC 4-6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	30.98	38.35
GMC 4-8N	1/4	6.35	1/2	4.82	7/8	22.22	9/16	14.28	15.24	17.78	37.33	44.70
GMC 4-12N	1/4	6.35	3/4	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	38.86	46.22
GMC 5-2N	5/16	7.93	1/8	4.82	9/16	14.28	5/8	15.87	16.25	18.54	26.67	34.03
GMC 5-4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	31.24	38.60
GMC 5-6N	5/16	7.93	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	31.75	39.11
GMC 6-2N	3/8	9.52	1/8	4.82	5/8	15.87	11/16	17.46	16.76	19.30	27.94	35.30
GMC 6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	32.51	39.87
GMC 6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	32.51	39.87
GMC 6-8N	3/8	9.52	1/2	7.11	7/8	22.22	11/16	17.46	16.76	19.30	38.86	46.22
GMC 6-12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	40.38	47.75
GMC 8-2N	1/2	12.70	1/8	4.82	13/16	20.64	7/8	22.22	22.86	21.84	28.70	38.86
GMC 8-4N	1/2	12.70	1/4	7.11	13/16	20.64	7/8	22.22	22.86	21.84	33.27	43.43
GMC 8-6N	1/2	12.70	3/8	9.65	13/16	20.64	7/8	22.22	22.86	21.84	33.27	43.43
GMC 8-8N	1/2	12.70	1/2	10.41	7/8	22.22	7/8	22.22	22.86	21.84	38.86	49.02
GMC 8-12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	40.38	50.54
GMC 8-16N	1/2	12.70	1	10.41	1-3/8	34.92	7/8	22.22	22.86	21.84	46.99	57.15
GMC 10-6N	5/8	15.87	3/8	9.65	15/16	23.81	1	25.40	24.38	21.84	34.03	44.19
GMC 10-8N	5/8	15.87	1/2	11.93	15/16	23.81	1	25.40	24.38	21.84	38.86	49.02
GMC 10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	40.38	50.54
GMC 12-8N	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	21.84	40.38	50.54
GMC 12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	40.38	50.54
GMC 12-16N	3/4	19.05	1	15.74	1-3/8	34.92	1-1/8	28.58	24.38	21.84	46.99	57.15
GMC 14-12N	7/8	22.22	3/4	15.74	1-3/16	30.16	1-1/4	31.75	25.90	21.84	40.38	50.54
GMC 14-16N	7/8	22.22	1	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	46.99	57.15
GMC 16-8N	1	25.40	1/2	11.93	1-3/8	34.92	1-1/2	38.10	31.24	26.41	45.21	57.40
GMC 16-12N	1	25.40	3/4	15.74	1-3/8	34.92	1-1/2	38.10	31.24	26.41	45.21	57.40
GMC 16-16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	50.03	62.23
GMC 20-16N	1-1/4	31.75	1	22.35	1-3/4	44.45	1-7/8	47.63	41.14	38.86	55.11	77.21
GMC 20-20N	1-1/4	31.75	1-1/4	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	55.11	77.21
GMC 24-24N	1-1/2	38.10	1-1/2	34.03	2-1/8	53.98	2-1/4	57.15	50.03	45.21	61.72	88.90
GMC 32-32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	76.20	113.53

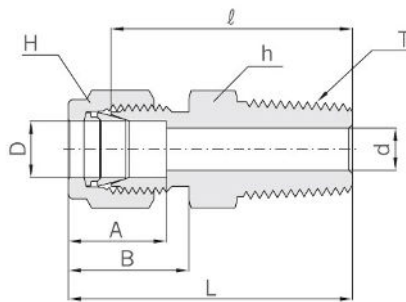
Male Connector Mod. GMC



Connects Metric Tube to Male NPT Thread

Part No.	Tube O.D.	T	D	Width across flat		A	B	ℓ	L
	D			h	H				
	mm	NPT	Min	mm	mm				
GMC 2M-2N	2	1/8	1.7	12	12	12.9	15.3	23.9	30.5
GMC 3M-2N	3	1/8	2.4	12	12	12.9	15.3	23.1	29.7
GMC 3M-4N	3	1/4	2.4	14	12	12.9	15.3	29.0	35.6
GMC 4M-2N	4	1/8	2.4	12	12	13.7	16.1	24.6	31.2
GMC 4M-4N	4	1/4	2.4	14	12	13.7	16.1	29.7	36.3
GMC 6M-2N	6	1/8	4.8	14	14	15.3	17.7	25.4	32.8
GMC 6M-4N	6	1/4	4.8	14	14	15.3	17.7	30.2	37.6
GMC 6M-6N	6	3/8	4.8	18	14	15.3	17.7	31.0	38.4
GMC 6M-8N	6	1/2	4.8	22	14	15.3	17.7	36.6	44.0
GMC 8M-2N	8	1/8	4.8	15	16	16.2	18.6	26.7	34.2
GMC 8M-4N	8	1/4	6.4	15	16	16.2	18.6	31.2	38.7
GMC 8M-6N	8	3/8	6.4	18	16	16.2	18.6	31.8	39.2
GMC 8M-8N	8	1/2	6.4	22	16	16.2	18.6	37.3	44.8
GMC 10M-2N	10	1/8	4.8	18	19	17.2	19.5	28.7	36.3
GMC 10M-4N	10	1/4	7.1	18	19	17.2	19.5	33.3	40.9
GMC 10M-6N	10	3/8	7.9	18	19	17.2	19.5	33.3	40.9
GMC 10M-8N	10	1/2	7.9	22	19	17.2	19.5	38.1	45.7
GMC 12M-4N	12	1/4	7.1	22	22	22.8	22.0	33.3	43.4
GMC 12M-6N	12	3/8	9.5	22	22	22.8	22.0	33.3	43.4
GMC 12M-8N	12	1/2	9.5	22	22	22.8	22.0	38.1	48.2
GMC 12M-12N	12	3/4	9.5	27	22	22.8	22.0	38.9	49.0
GMC 15M-8N	15	1/2	11.9	24	25	24.4	22.0	38.9	49.0
GMC 16M-4N	16	1/4	7.1	24	25	24.4	22.0	34.0	44.1
GMC 16M-6N	16	3/8	9.5	24	25	24.4	22.0	34.0	44.1
GMC 16M-8N	16	1/2	11.9	24	25	24.4	22.0	38.9	49.0
GMC 16M-12N	16	3/4	12.7	27	25	24.4	22.0	38.9	49.0
GMC 18M-8N	18	1/2	11.9	27	30	24.4	22.0	40.4	50.5
GMC 18M-12N	18	3/4	15.1	27	30	24.4	22.0	40.4	50.5
GMC 20M-8N	20	1/2	11.9	30	32	26.0	22.0	42.2	52.3
GMC 20M-12N	20	3/4	15.9	30	32	26.0	22.0	42.2	52.3
GMC 22M-12N	22	3/4	15.9	30	32	26.0	22.0	42.2	52.3
GMC 22M-16N	22	1	18.3	35	32	26.0	22.0	47.8	57.9
GMC 25M-12N	25	3/4	15.9	35	38	31.3	26.5	45.2	57.5
GMC 25M-16N	25	1	21.8	35	38	31.3	26.5	50.0	62.3
GMC 28M-16N	28	1	21.8	41	46	36.6	36.6	51.6	72.4
GMC 28M-20N	28	1-1/4	21.8	46	46	36.6	36.6	52.3	73.1
GMC 32M-20N	32	1-1/4	28.6	46	50	42.0	41.6	56.6	79.6
GMC 38M-24N	38	1-1/2	33.7	55	60	49.4	47.9	64.0	91.6

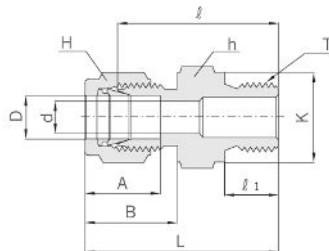
Male Connector Mod. GMC



Connects Metric Tube to Male ISO Tapered Thread

Part No.	Tube O.D.	T	D	Width across flat		A	B	ℓ	L
	D			h	H				
	mm		Min	mm	mm				
GMC 2M-2R	2	1/8	1.7	12	12	12.9	15.3	23.9	30.5
GMC 3M-2R	3	1/8	2.4	12	12	12.9	15.3	23.1	29.7
GMC 3M-4R	3	1/4	2.4	14	12	12.9	15.3	29.0	35.6
GMC 4M-2R	4	1/8	2.4	12	12	13.7	16.1	24.6	31.2
GMC 4M-4R	4	1/4	2.4	14	12	13.7	16.1	29.7	36.3
GMC 6M-2R	6	1/8	4.8	14	14	15.3	17.7	25.4	32.8
GMC 6M-4R	6	1/4	4.8	14	14	15.3	17.7	30.2	37.6
GMC 6M-6R	6	3/8	4.8	18	14	15.3	17.7	31.0	38.4
GMC 6M-8R	6	1/2	4.8	22	14	15.3	17.7	36.6	44.0
GMC 8M-2R	8	1/8	4.8	15	16	16.2	18.6	26.7	34.2
GMC 8M-4R	8	1/4	6.4	15	16	16.2	18.6	31.2	38.7
GMC 8M-6R	8	3/8	6.4	18	16	16.2	18.6	31.8	39.2
GMC 8M-8R	8	1/2	6.4	22	16	16.2	18.6	37.3	44.8
GMC 10M-2R	10	1/8	4.8	18	19	17.2	19.5	28.7	36.3
GMC 10M-4R	10	1/4	7.1	18	19	17.2	19.5	33.3	40.9
GMC 10M-6R	10	3/8	7.9	18	19	17.2	19.5	33.3	40.9
GMC 10M-8R	10	1/2	7.9	22	19	17.2	19.5	38.1	45.7
GMC 12M-4R	12	1/4	7.1	22	22	22.8	22.0	33.3	43.4
GMC 12M-6R	12	3/8	9.5	22	22	22.8	22.0	33.3	43.4
GMC 12M-8R	12	1/2	9.5	22	22	22.8	22.0	38.1	48.2
GMC 12M-12R	12	3/4	9.5	27	22	22.8	22.0	38.9	49.0
GMC 15M-8R	15	1/2	11.9	24	25	24.4	22.0	38.9	49.0
GMC 16M-4R	16	1/4	7.1	24	25	24.4	22.0	34.0	44.1
GMC 16M-6R	16	3/8	9.5	24	25	24.4	22.0	34.0	44.1
GMC 16M-8R	16	1/2	11.9	24	25	24.4	22.0	38.9	49.0
GMC 16M-12R	16	3/4	12.7	27	25	24.4	22.0	38.9	49.0
GMC 18M-8R	18	1/2	11.9	27	30	24.4	22.0	40.4	50.5
GMC 18M-12R	18	3/4	15.1	27	30	24.4	22.0	40.4	50.5
GMC 20M-8R	20	1/2	11.9	30	32	26.0	22.0	42.2	52.3
GMC 20M-12R	20	3/4	15.9	30	32	26.0	22.0	42.2	52.3
GMC 22M-12R	22	3/4	15.9	30	32	26.0	22.0	42.2	52.3
GMC 22M-16R	22	1	18.3	35	32	26.0	22.0	47.8	57.9
GMC 25M-12R	25	3/4	15.9	35	38	31.3	26.5	45.2	57.5
GMC 25M-16R	25	1	21.8	35	38	31.3	26.5	50.0	62.3
GMC 28M-16R	28	1	21.8	41	46	36.6	36.6	51.6	72.4
GMC 28M-20R	28	1-1/4	21.8	46	46	36.6	36.6	52.3	73.1
GMC 32M-20R	32	1-1/4	28.6	46	50	42.0	41.6	56.6	79.6
GMC 38M-24R	38	1-1/2	33.7	55	60	49.4	47.9	64.0	91.6

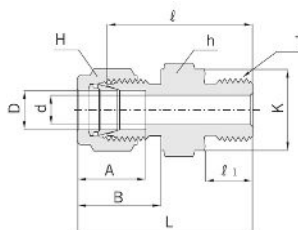
Male Connector for Bonded Washer Seal Mod. GMC



Connects Fractional Tube to Female ISO Parallel Thread														
Part No.	Tube O.D.		T Iso 228/1	E	Width across flat				A	B	ℓ	ℓ1	L	K
	D				h		H							
	in	mm			G(PF)	Min	in	mm						
GMC 2-2G	1/8	3.17	1/8	2.3	9/16	14.28	7/16	11.11	12.7	15.24	23.4	7.1	30.0	13.8
GMC 2-4G	1/8	3.17	1/4	2.3	3/4	19.05	7/16	11.11	12.7	15.24	28.7	11.2	35.3	18.0
GMC 2-6G	1/8	3.17	3/8	2.3	7/8	22.22	7/16	11.11	12.7	15.24	29.7	11.2	36.3	21.8
GMC 4-2G	1/4	6.35	1/8	4.1	9/16	14.28	9/16	14.28	15.2	17.78	24.9	7.1	32.3	13.8
GMC 4-4G	1/4	6.35	1/4	4.8	3/4	19.05	9/16	14.28	15.2	17.78	30.2	11.2	37.6	18.0
GMC 4-6G	1/4	6.35	3/8	4.8	7/8	22.22	9/16	14.28	15.2	17.78	31.5	11.2	38.9	21.8
GMC 4-8G	1/4	6.35	1/2	4.8	1-1/16	26.98	9/16	14.28	15.2	17.78	37.3	14.2	44.7	26.0
GMC 6-4G	3/8	9.52	1/4	5.8	3/4	19.05	11/16	17.46	16.8	17.78	31.8	11.2	39.1	18.0
GMC 6-6G	3/8	9.52	3/8	7.1	7/8	22.22	11/16	17.46	16.8	19.30	33.0	11.2	40.4	21.8
GMC 6-8G	3/8	9.52	1/2	7.1	1-1/16	26.98	11/16	17.46	16.8	19.30	38.9	14.2	46.2	26.0
GNC 8-2G	1/2	12.70	1/8	4.8	7/8	22.22	7/8	22.22	22.9	19.30	28.5	7.1	38.7	13.8
GMC 8-4G	1/2	12.70	1/4	5.8	13/16	20.63	7/8	22.22	22.9	19.30	32.5	11.2	42.7	18.0
GMC 8-6G	1/2	12.70	3/8	7.9	7/8	22.22	7/8	22.22	22.9	21.84	33.0	11.2	43.2	21.8
GMC 8-8G	1/2	12.70	1/2	10.4	1-1/16	26.98	7/8	22.22	22.9	21.84	38.9	14.2	49.0	26.0
GMC 12-8G	3/4	19.05	1/2	11.9	1-1/16	26.98	1-1/8	28.57	24.4	21.84	38.9	14.2	49.0	26.0
GMC 12-12G	3/4	19.05	3/4	15.7	1-3/8	34.92	1-1/8	28.57	24.4	21.84	42.7	15.7	52.8	32.0
GMC 16-12G	1	25.40	3/4	16.0	1-3/8	34.92	1-1/2	38.10	31.2	26.41	45.2	15.7	57.4	32.0
GMC 16-16G	1	25.40	1	19.8	1-5/8	41.27	1-1/2	38.10	31.2	26.41	47.8	18.3	59.9	39.0

Connects Metric Tube to Female ISO Parallel Thread											
Part No.	Tube O.D. D	T Iso 228/1 G(PF)	E Min	Width across flat		A	B	ℓ	ℓ1	L	L1
				h	H						
GMC 2M-2G	2	1/8	1.7	14	12	12.9	15.3	23.4	7.1	30.0	13.8
GMC 3M-2G	3	1/8	2.4	14	12	12.9	15.3	23.4	7.1	30.0	13.8
GMC 3M-4G	3	1/4	2.4	19	12	12.9	15.3	28.7	11.2	35.3	18.0
GMC 4M-2G	4	1/8	2.4	14	12	13.7	16.1	24.1	7.1	30.7	13.8
GMC 6M-2G	6	1/8	4.0	14	14	15.3	17.7	24.9	7.1	32.3	13.8
GMC 6M-4G	6	1/4	4.8	19	14	15.3	17.7	30.2	11.2	37.6	18.0
GMC 6M-6G	6	3/8	4.8	22	14	15.3	17.7	31.5	11.2	38.9	21.8
GMC 6M-8G	6	1/2	4.8	27	14	15.3	17.7	37.3	14.2	44.7	26.0
GMC 8M-2G	8	1/8	4.0	15	16	16.2	18.6	25.7	7.1	33.2	13.8
GMC 8M-4G	8	1/4	6.4	19	16	16.2	18.6	31.0	11.2	38.5	13.8
GMC 8M-6G	8	3/8	6.4	22	16	16.2	18.6	32.3	11.2	39.8	21.8
GMC 10M-4G	10	1/4	6.4	19	19	17.2	19.5	31.8	11.2	39.4	18.0
GMC 10M-6G	10	3/8	7.9	22	19	17.2	19.5	33.0	11.2	40.6	21.8
GMC 10M-8G	10	1/2	7.9	27	19	17.2	19.5	38.9	14.2	46.5	26.0
GMC 12M-4G	12	1/4	5.9	22	22	22.8	22.0	32.5	11.2	42.6	18.0
GMC 12M-6G	12	3/8	7.9	22	22	22.8	22.0	33.0	11.2	43.1	21.8
GMC 12M-8G	12	1/2	9.5	27	22	22.8	22.0	38.9	14.2	49.0	26.0
GMC 12M-12G	12	3/4	9.5	32	22	22.8	22.0	42.7	15.7	52.8	32.0
GMC 16M-6G	16	3/8	7.9	24	25	24.4	22.0	33.8	11.2	43.9	21.8
GMC 16M-8G	16	1/2	11.9	27	25	24.4	22.0	38.9	14.2	49.0	26.0
GMC 18M-8G	18	1/2	11.9	27	30	24.4	22.0	38.9	14.2	49.0	26.0
GMC 18M-12G	18	3/4	15.1	35	30	24.4	22.0	42.7	15.7	52.8	32.0
GMC 20M-8G	20	1/2	11.9	30	32	26.0	22.0	40.4	14.2	50.5	26.0
GMC 20M-12G	20	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
GMC 22M-12G	22	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
GMC 22M-16G	22	1	18.3	41	32	26.0	22.0	45.2	18.3	55.3	39.0
GMC 25M-12G	25	3/4	15.9	35	38	31.3	26.5	45.2	15.7	57.5	32.0
GMC 25M-16G	25	1	19.8	41	38	31.3	26.5	47.8	18.3	60.1	39.0
GMC 28M-16G	28	1	19.8	41	46	36.6	36.6	49.3	18.3	70.1	39.0
GMC 28M-20G	28	1-1/4	21.8	50	46	36.6	36.6	53.1	19.8	73.9	49.0
GMC 32M-20G	32	1-1/4	25.0	50	50	42.0	41.6	55.9	19.8	78.9	49.0
GMC 38M-24G	38	1-1/2	31.8	55	60	49.4	47.9	63.2	22.1	90.8	54.7

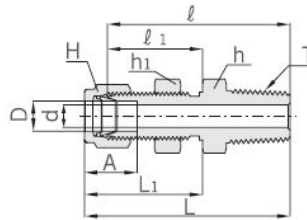
Male Connector for Metal Gasket Seal Mod. GMO



Connects Fractional Tube to Female ISO Parallel Thread														
Part No.	Tube O.D.		T	E	Width across flat				A	B	ℓ	ℓ1	L	K
	D				h		H							
	in	mm			G(PT)	Min	in	mm						
GMO 2-2G	1/8	3.17	1/8	2.28	9/16	14.28	7/16	11.11	12.70	15.24	23.37	7.11	29.97	13.72
GMO 2-4G	1/8	3.17	1/4	2.28	3/4	19.05	7/16	11.11	12.70	15.24	28.70	11.18	35.31	18.03
GMO 2-6G	1/8	3.17	3/8	2.28	7/8	22.22	7/16	11.11	12.70	15.24	29.72	11.18	36.21	21.84
GMO 4-2G	1/4	6.35	1/8	2.28	9/16	14.28	9/16	14.28	15.24	17.78	24.89	7.11	32.26	13.72
GMO 4-4G	1/4	6.35	1/4	4.82	3/4	19.05	9/16	14.28	15.24	17.78	30.23	11.18	37.59	18.03
GMO 4-6G	1/4	6.35	3/8	4.82	7/8	22.22	9/16	14.28	15.24	17.78	31.50	11.18	38.86	21.84
GMO 4-8G	1/4	6.35	1/2	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	37.34	14.22	44.70	25.91
GMO 6-4G	3/8	9.53	1/4	4.82	3/4	19.05	11/16	17.46	16.76	19.30	31.75	11.18	39.12	18.03
GMO 6-6G	3/8	9.53	3/8	7.11	7/8	22.22	11/16	17.46	16.76	19.30	33.02	11.18	40.39	21.84
GMO 6-8G	3/8	9.53	1/2	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	38.86	14.22	46.23	25.91
GMO 8-4G	1/2	12.70	1/4	7.11	13/16	20.64	7/8	22.22	22.86	21.84	32.51	11.18	42.67	18.03
GMO 8-6G	1/2	12.70	3/8	9.65	7/8	22.22	7/8	22.22	22.86	21.84	33.02	11.18	43.18	21.84
GMO 8-8G	1/2	12.70	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	38.86	14.22	49.02	25.91
GMO 12-8G	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	21.84	38.86	14.22	49.02	25.91
GMO 12-12G	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	21.84	42.67	15.75	52.83	32.00
GMO 16-8G	1	25.40	1/2	11.93	1-3/8	34.92	1-1/2	38.10	31.24	26.41	43.69	14.22	55.88	25.91
GMO 16-16G	1	25.40	1	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	47.75	18.29	59.94	39.12
GMO 20-20G	1-1/4	31.75	1-1/4	27.68	2	50.80	1-7/8	47.63	41.14	38.86	51.16	20.00	73.26	49.00
GMO 24-24G	1-1/2	38.10	1-1/2	34.03	2-1/4	57.15	2-1/4	57.15	50.03	45.21	57.57	20.00	84.75	55.00

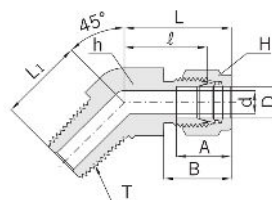
Connects Metric Tube to Female ISO Parallel Thread													
Part No.	Tube O.D. D	T G(PT)	E Min	Width across flat		A	B	e	e1	L	K		
				h	H								
GMO 3M-2G	3	1/8	2.4	14	12	12.9	15.3	23.4	7.1	30.0	13.8		
GMO 3M-4G	3	1/4	2.4	19	12	12.9	15.3	28.7	11.2	35.3	18.0		
GMO 4M-2G	4	1/8	2.4	14	12	13.7	16.1	24.1	7.1	30.7	13.8		
GMO 6M-2G	6	1/8	4.0	14	14	15.3	17.7	24.9	7.1	32.3	13.8		
GMO 6M-4G	6	1/4	4.8	19	14	15.3	17.7	30.2	11.2	37.6	18.0		
GMO 6M-6G	6	3/8	4.8	22	14	15.3	17.7	31.5	11.2	38.9	21.8		
GMO 6M-8G	6	1/2	4.8	27	14	15.3	17.7	37.3	14.2	44.7	26.0		
GMO 8M-2G	8	1/8	4.0	15	16	16.2	18.6	25.7	7.1	33.2	13.8		
GMO 8M-4G	8	1/4	6.4	19	16	16.2	18.6	31.0	11.2	38.5	13.8		
GMO 8M-6G	8	3/8	6.4	22	16	16.2	18.6	32.3	11.2	39.8	21.8		
GMO 8M-8G	8	1/2	6.4	27	16	16.2	18.6	38.1	14.2	45.6	26.0		
GMO 10M-4G	10	1/4	5.9	19	19	17.2	19.5	31.8	11.2	39.4	18.0		
GMO 10M-6G	10	3/8	7.9	22	19	17.2	19.5	33.0	11.2	40.6	21.8		
GMO 10M-8G	10	1/2	7.9	27	19	17.2	19.5	38.9	14.2	46.5	26.0		
GMO 12M-4G	12	1/4	5.9	22	22	22.8	22.0	32.5	11.2	42.6	18.0		
GMO 12M-6G	12	3/8	7.9	22	22	22.8	22.0	33.0	11.2	43.1	21.8		
GMO 12M-8G	12	1/2	9.5	27	22	22.8	22.0	38.9	14.2	49.0	26.0		
GMO 12M-12G	12	3/4	9.5	32	22	22.8	22.0	42.7	15.7	52.8	32.0		
GMO 15M-8G	15	1/2	11.9	27	25	24.4	22.0	33.9	14.2	49.0	26.0		
GMO 16M-6G	16	3/8	7.9	24	25	24.4	22.0	33.8	11.2	43.9	21.8		
GMO 16M-8G	16	1/2	11.9	27	25	24.4	22.0	38.9	14.2	49.0	26.0		
GMO 18M-8G	18	1/2	11.9	27	30	24.4	22.0	38.9	14.2	49.0	26.0		
GMO 18M-12G	18	3/4	15.1	35	30	24.4	22.0	42.7	15.7	52.8	32.0		
GMO 20M-8G	20	1/2	11.9	30	32	26.0	22.0	40.4	14.2	50.5	26.0		
GMO 20M-12G	20	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0		
GMO 20M-12G	22	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0		
GMO 22M-16G	22	1	18.3	41	32	26.0	22.0	45.2	18.3	55.3	39.0		
GMO 25M-12G	25	3/4	15.9	35	38	31.3	26.5	45.2	15.7	57.5	32.0		
GMO 25M-16G	25	1	19.8	41	38	31.3	26.5	47.8	18.3	60.1	39.0		
GMO 28M-16G	28	1	19.8	41	46	36.6	36.6	49.3	18.3	70.1	39.0		
GMO 28M-20G	28	1-1/4	21.8	50	46	36.6	36.6	53.1	19.8	73.9	49.0		
GMO 32M-20G	32	1-1/4	28.6	50	50	42.0	41.6	55.9	19.8	78.9	49.0		
GMO 38M-24G	38	1-1/2	31.8	55	60	49.4	47.9	61.7	20.6	89.3	54.7		

Bulkhead Male Connector Mod. GBMC



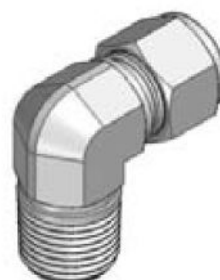
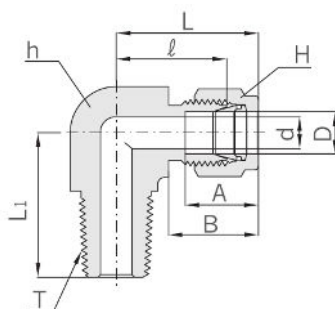
Connects Fractional Tubeto Female NPT Thread																	
Part No.	Tube O.D.		T (NPT)	d Min	Width across flat						A	ℓ	ℓ1	L	L1	Panel Hole Drill Size	Panel Max Thk.
	D				h		h1		H								
	in	mm			in	mm	in	mm	in	Mm							
GBMC 2-2N	1/8	3.17	1/8	2.28	1/2	12.70	1/2	12.70	7/16	11.11	12.70	39.87	24.63	46.48	31.24	8.33	12.70
GBMC 4-2N	1/4	6.35	1/8	4.82	5/8	15.87	5/8	15.87	9/16	14.28	15.24	42.16	26.16	49.53	33.52	11.50	10.16
GBMC 4-4N	1/4	6.35	1/4	4.82	5/8	15.87	5/8	15.87	9/16	14.28	15.24	45.97	26.16	53.34	33.52	11.50	10.16
GBMC 6-4N	3/8	9.52	1/4	7.11	3/4	19.05	3/4	19.05	11/16	17.46	16.76	50.03	29.46	57.40	36.83	14.68	11.17
GBMC 6-6N	3/8	9.52	3/8	7.11	3/4	19.05	3/4	19.05	11/16	17.46	16.76	50.03	29.46	57.40	36.83	14.68	11.17
GBMC 6-8N	3/8	9.52	1/2	7.11	7/8	22.22	3/4	19.05	11/16	17.46	16.76	56.38	29.46	63.75	36.83	14.68	11.17
GBMC 8-6N	1/2	12.70	3/8	9.39	15/16	23.81	15/16	23.81	7/8	22.22	22.86	53.08	31.75	63.24	41.91	19.44	12.70
GBMC 8-8N	1/2	12.70	1/2	10.41	15/16	23.81	15/16	23.81	7/8	22.22	22.86	58.67	31.75	68.83	41.91	19.44	12.70
GBMC 12-12N	3/4	19.05	3/4	15.74	1-3/16	30.16	1-3/16	30.16	1-1/8	28.58	24.38	66.04	37.33	76.20	47.49	25.76	16.76
GBMC 16-16N	1	25.40	1	22.35	1-5/8	41.28	1-5/8	41.28	1-1/2	38.10	31.24	81.02	45.21	93.21	57.40	33.73	19.05

45° Male Elbow Mod. GMBL



Connects Fractional Tubeto Female NPT Thread													
Part No.	Tube O.D.		T (NPT)	d Min	Width across flat				A	B	ℓ	L	L1
	D				h		H						
	in	mm			in	mm	in	mm					
GMBL 4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	17.27	24.63	16.51
GMBL 4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	17.27	24.63	21.08
GMBL 6-2N	3/8	9.52	1/8	4.82	5/8	15.87	11/16	17.46	16.76	19.30	20.57	27.94	18.28
GMBL 6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	20.57	27.94	22.86
GMBL 6-6N	3/8	9.52	3/8	7.11	13/16	20.64	11/16	17.46	16.76	19.30	21.84	29.21	24.13
GMBL 8-6N	1/2	12.70	3/8	9.65	13/16	20.64	7/8	22.22	22.86	21.84	21.84	32.00	24.13
GMBL 8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	21.84	32.00	28.95
GMBL 12-12N	3/4	19.05	3/4	15.74	1-1/8	28.58	1-1/8	28.58	24.38	21.84	23.87	34.03	30.98
GMBL 16-16N	1	25.40	1	22.35	1-3/8	34.93	1-1/2	38.10	31.24	26.41	28.19	40.38	37.84

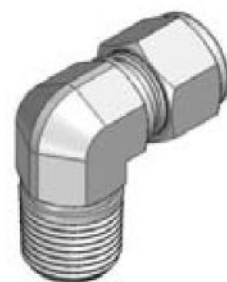
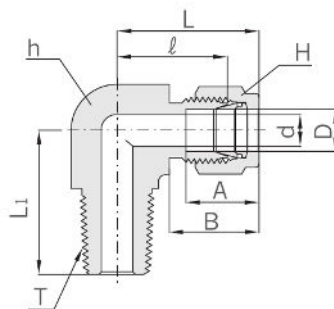
Male Elbow Mod. GML



Connects Fractional Tube to Male NPT Thread

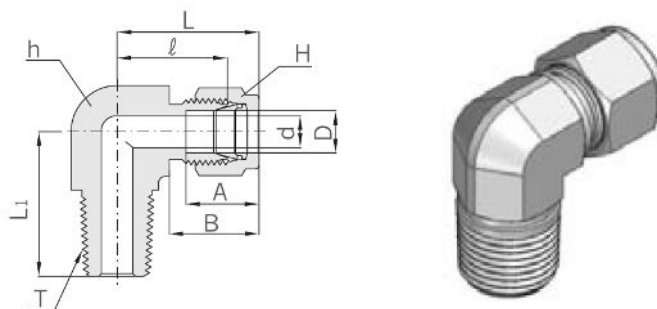
Part No.	Tube O.D.		T (NPT)	d Min	Width across flat				A	B	ℓ	L	L1
	D				h		H						
	in	mm			in	mm	in	mm					
GML 1-1N	1/16	1.58	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
GML 1-2N	1/16	1.58	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
GML 2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	18.90
GML 2-4N	1/8	3.17	1/4	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	23.36
GML 3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	18.79
GML 3-4N	3/16	4.76	1/4	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	23.36
GML 4-1N	1/4	6.35	1/16	3.04	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.90	18.79
GML 4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.10	26.47	19.10
GML 4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.81	27.18	23.87
GML 4-6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	26.20
GML 4-8N	1/4	6.35	1/2	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.60	31.97	33.02
GML 5-2N	5/16	7.93	1/8	4.82	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.81
GML 5-4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	29.77	24.50
GML 5-6N	5/16	7.93	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	26.20
GML 6-2N	3/8	9.52	1/8	4.82	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	20.60
GML 6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	25.40
GML 6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	26.20
GML 6-8N	3/8	9.52	1/2	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	31.42	33.02
GML 6-12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	29.71	37.08	36.83
GML 8-4N	1/2	12.70	1/4	7.11	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
GML 8-6N	1/2	12.70	3/8	9.65	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
GML 8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	33.02
GML 8-12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	29.71	39.87	36.83
GML 10-6N	5/8	15.87	3/8	9.65	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	30.22
GML 10-8N	5/8	15.87	1/2	11.93	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	35.10
GML 10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	29.71	39.87	36.83
GML 12-8N	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.57	24.38	21.84	29.71	39.87	37.00
GML 12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	29.71	39.87	36.83
GML 14-12N	7/8	22.22	3/4	15.74	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
GML 16-12N	1	25.40	3/4	15.74	1-27-64	36.00	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
GML 16-16N	1	25.40	1	22.35	1-27-64	36.00	1-1/2	38.10	31.24	26.41	36.83	49.02	46.70
GML 20-20N	1-1/4	31.75	1-1/4	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54	47.75
GML 24-24N	1-1/2	38.10	1-1/2	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97	60.45
GML 32-32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	62.73	63.73	69.80	107.18	70.61

Male Elbow Mod. GML



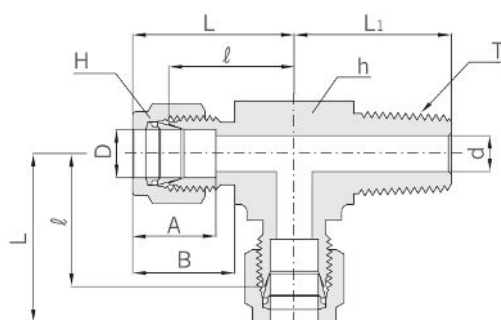
Connects Metric Tube to Male NPT Thread										
Part No.	Tube O.D.	T (NPT)	d Min	Width across flat		A	B	ℓ	L	L1
	D mm			h mm	H mm					
GML 3M-2N	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
GML 3M-4N	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
GML 4M-2N	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
GML 4M-4N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

Male Elbow Mod. GML



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

Male Run Tee Mod. GMRT



Connects Fractional Tube to Female NPT Thread

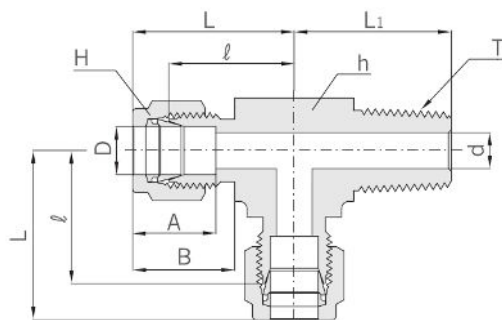
Part No.	Tube O.D.		T (NPT)	d Min	Width across flat				A	B	ℓ	L	L1
	in	mm			h		H						
					in	mm	in	mm					
GMRT 2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	18.90
GMRT 2-4N	1/8	3.17	1/4	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	23.36
GMRT 3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	24.38	18.79
GMRT 4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	18.79
GMRT 4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	27.08	23.87
GMRT 5-2N	5/16	7.93	1/8	4.82	9/16	14.28	5/8	15.87	16.25	18.54	22.35	29.71	19.81
GMRT 6-4N	3/8	9.52	1/4	7.11	5/8	15.87	1/16	17.46	16.76	19.30	23.11	30.48	25.40
GMRT 6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	28.44
GMRT 8-6N	1/2	12.70	3/8	9.65	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
GMRT 8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	33.02
GMRT 10-8N	5/8	15.87	1/2	11.93	15/16	23.81	1	25.40	24.38	21.84	27.90	38.10	34.00
GMRT 12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.81	36.83

Note: ISO Tapered threads are available upon request

Connects Metric Tube to Female NPT Thread

Part No.	Tube O.D. D	T (NPT)	d Min	Width across flat		A	B	ℓ	L	L1
				h	H					
GMRT 3M-2N	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
GMRT 3M-4N	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
GMRT 4M-2N	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
GMRT 6M-2N	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
GMRT 6M-4N	6	1/4	4.8	14.2	14	15.3	17.7	19.6	27.0	23.4
GMRT 8M-2N	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
GMRT 8M-4N	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
GMRT 10M-4N	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
GMRT 10M-6N	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
GMRT 12M-4N	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
GMRT 12M-6N	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
GMRT 12M-8N	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
GMRT 16M-6N	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
GMRT 16M-8N	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
GMRT 20M-12N	20	3/4	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7

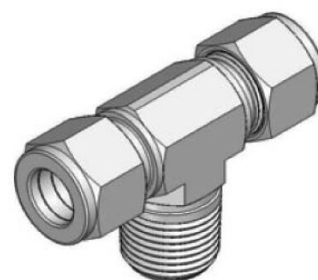
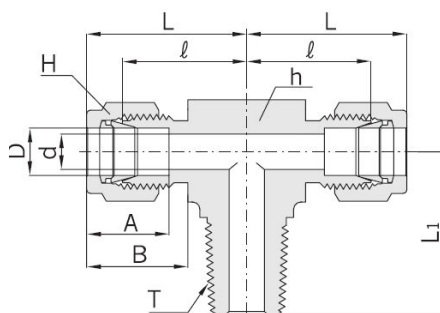
Male Run Tee Mod. GMRT



Connects Metric Tube to Female ISO Tapered Thread

Part No.	Tube O.D. D	T R(PT)	d Min	Width across flat		A	B	ℓ	L	L1
				h	H					
GMRT 3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
GMRT 3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
GMRT 4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
GMRT 6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
GMRT 6M-4R	6	1/4	4.8	14.2	14	15.3	17.7	19.6	27.0	23.4
GMRT 8M-2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
GMRT 8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
GMRT 10M-4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
GMRT 10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
GMRT 12M-4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
GMRT 12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
GMRT 12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
GMRT 16M-6R	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
GMRT 16M-8R	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
GMRT 20M-12R	20	3/4	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7

Male Branch Tee Mod. GMBT



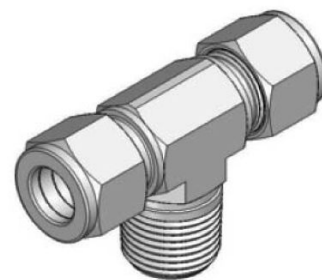
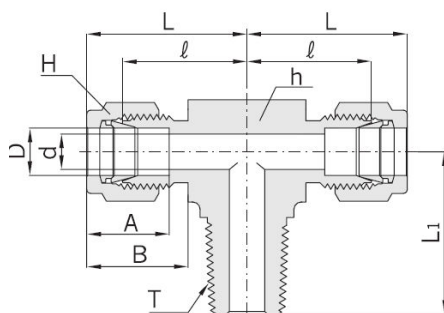
Connects Fractional Tube to Female NPT Thread

Part No.	Tube O.D.		T (NPT)	d Min	Width across flat				A	B	ℓ	L	L1
	D				H								
	in	mm			h		H						
GMBT 2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	17.00	24.91	17.80
GMBT 2-4N	1/8	3.17	1/4	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.03	24.91	23.36
GMBT 3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.38	17.78
GMBT 4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	18.79
GMBT 4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	23.36
GMBT 5-2N	5/16	7.93	1/8	4.82	9/16	14.28	5/8	15.87	16.25	18.54	22.35	29.71	20.82
GMBT 6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	25.40
GMBT 6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	26.20
GMBT 8-6N	1/2	12.70	3/8	10.41	13/16	20.63	7/8	22.22	22.86	21.84	25.90	36.06	28.19
GMBT 8-8N	1/2	12.70	1/2	10.41	13/16	20.63	7/8	22.22	22.86	21.84	25.90	36.06	33.02
GMBT 10-8N	5/8	15.87	1/2	11.93	15/16	23.80	1	25.40	24.38	21.84	27.94	38.10	35.05
GMBT 12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	29.71	39.87	36.83

Connects Metric Tube to Female NPT Thread

Part No.	Tube O.D. D	T (NPT)	d Min	Width across flat		A	B	ℓ	L	L1
				h	H					
GMBT 3M-2N	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
GMBT 3M-4N	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
GMBT 4M-2N	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
GMBT 6M-2N	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
GMBT 6M-4N	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
GMBT 8M-2N	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
GMBT 8M-4N	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
GMBT 10M-4N	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
GMBT 10M-6N	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
GMBT 12M-4N	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
GMBT 12M-6N	12	3/8	9.0	20.6	22	22.8	22.0	25.9	36.0	28.2
GMBT 12M-8N	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
GMBT 16M-6N	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
GMBT 16M-8N	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
GMBT 20M-12N	20	3/4	15.9	30.0	32	26.0	22.0	34.5	44.6	41.7

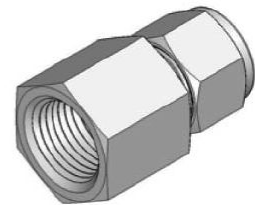
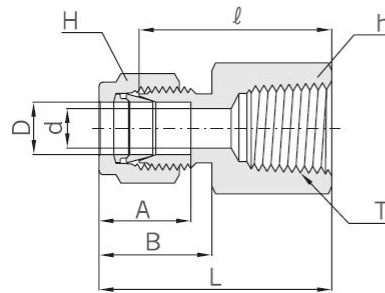
Male Branch Tee Mod. GMBT



Connects Metric Tube to Female ISO Tapered Thread

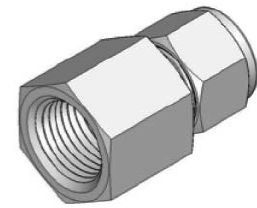
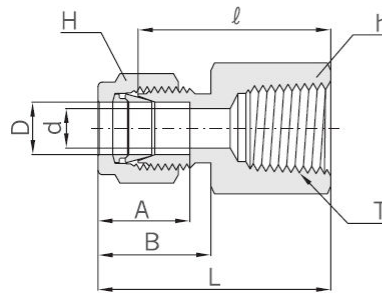
Part No.	Tube O.D. D	T R(PT)	d Min	Width across flat		A	B	ℓ	L	L1
				h	H					
GMBT 3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
GMBT 3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
GMBT 4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
GMBT 6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
GMBT 6M-4R	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
GMBT 8M-2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
GMBT 8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
GMBT 10M-4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
GMBT 10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
GMBT 12M-4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
GMBT 12M-6R	12	3/8	9.0	20.6	22	22.8	22.0	25.9	36.0	28.2
GMBT 12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
GMBT 16M-6R	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
GMBT 16M-8R	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
GMBT 20M-12R	20	3/4	15.9	30.0	32	26.0	22.0	34.5	44.6	41.7

Female Connector Mod. GFC



Connects Fractional Tube to Female NPT												
Part No.	Tube O.D.		T	d	Width across flat				A	B	ℓ	L
	D				h		H					
					in	mm	in	mm				
GFC 1-1N	1/16	1.58	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	19.81	23.62
GFC 1-2N	1/16	1.58	1/8	1.27	9/16	14.28	5/16	7.93	8.63	10.92	20.57	24.38
GFC 2-2N	1/8	3.17	1/8	2.28	9/16	14.28	7/16	11.11	12.70	15.24	22.09	28.70
GFC 2-4N	1/8	3.17	1/4	2.28	3/4	19.05	7/16	11.11	12.70	15.24	26.92	33.52
GFC 3-2N	3/16	4.76	1/8	3.04	9/16	14.28	1/2	12.70	13.71	16.00	23.11	29.71
GFC 4-2N	1/4	6.35	1/8	4.82	9/16	14.28	9/16	14.28	15.24	17.78	23.87	31.24
GFC 4-4N	1/4	6.35	1/4	4.82	3/4	19.05	9/16	14.28	15.24	17.78	28.44	35.81
GFC 4-6N	1/4	6.35	3/8	4.82	7/8	22.22	9/16	14.28	15.24	17.78	30.22	37.59
GFC 4-8N	1/4	6.35	1/2	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	35.05	42.41
GFC 5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	24.63	32.00
GFC 5-4N	5/16	7.93	1/4	6.35	3/4	19.05	5/8	15.87	16.25	18.54	29.46	36.83
GFC 6-2N	3/8	9.52	1/8	7.11	5/8	15.87	11/16	17.46	16.76	19.30	25.40	32.76
GFC 6-4N	3/8	9.52	1/4	7.11	3/4	19.05	11/16	17.46	16.76	19.30	30.22	37.59
GFC 6-6N	3/8	9.52	3/8	7.11	7/8	22.22	11/16	17.46	16.76	19.30	31.75	39.11
GFC 6-8N	3/8	9.52	1/2	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	36.57	43.94
GFC 6-12N	3/8	9.52	3/4	7.11	1-5/16	33.33	11/16	17.46	16.76	19.30	40.38	47.75
GFC 8-4N	1/2	12.70	1/4	10.41	1-3/16	20.64	7/8	22.22	22.86	21.84	30.22	40.38
GFC 8-6N	1/2	12.70	3/8	10.41	7/8	22.22	7/8	22.22	22.86	21.84	31.75	41.91
GFC 8-8N	1/2	12.70	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	36.57	46.73
GFC 8-12N	1/2	12.70	3/4	10.41	1-5/16	33.33	7/8	22.22	22.86	21.84	38.10	48.26
GFC 10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	31.75	41.91
GFC 10-8N	5/8	15.87	1/2	12.70	1-1/16	26.98	1	25.40	24.38	21.84	36.57	46.73
GFC 10-12N	5/8	15.87	3/4	12.70	1-5/16	33.33	1	25.40	24.38	21.84	38.10	48.26
GFC 12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	36.57	46.73
GFC 12-12N	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	21.84	38.10	48.26
GFC 14-12N	7/8	22.22	3/4	18.28	1-5/16	33.33	1-1/4	31.75	25.90	21.84	39.62	49.78
GFC 16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	41.14	53.34
GFC 16-16N	1	25.40	1	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	50.03	62.23
GFC 20-20N	1-1/4	31.75	1-1/4	27.68	2-1/8	53.98	1-7/8	47.63	41.14	38.86	52.57	74.67
GFC 24-24N	1-1/2	58.10	1-1/2	34.03	2-3/8	60.33	2-1/4	57.15	50.03	45.21	56.13	83.31
GFC 32-32N	2	50.80	2	45.97	2-1/8	73.03	3	76.20	67.56	62.73	64.26	101.60

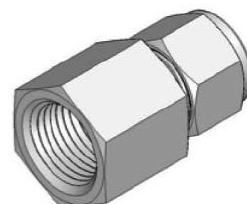
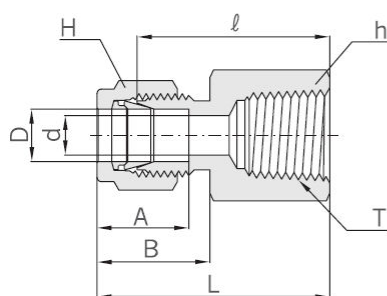
Female Connector Mod. GFC



Connects Metric Tube to Female NPT Thread

Part No.	Tube O.D. D	T NPT	d Min	Width across flat		A	B	ℓ	L
				h	H				
GFC 3M-2N	3	1/8	2.4	14	12	12.9	15.3	22.1	28.7
GFC 3M-4N	3	1/4	2.4	19	12	12.9	15.3	26.9	33.5
GFC 4M-2N	4	1/8	2.4	14	12	13.7	16.1	23.1	29.7
GFC 6M-2N	6	1/8	4.8	14	14	15.3	17.7	23.9	31.3
GFC 6M-4N	6	1/4	4.8	19	14	15.3	17.7	28.4	35.8
GFC 6M-6N	6	3/8	4.8	22	14	15.3	17.7	29.5	36.9
GFC 6M-8N	6	1/2	4.8	27	14	15.3	17.7	35.1	42.5
GFC 8M-2N	8	1/8	6.3	14	16	16.2	18.6	24.6	32.1
GFC 8M-4N	8	1/4	6.3	19	16	16.2	18.6	29.5	37.0
GFC 8M-6N	8	3/8	6.3	22	16	16.2	18.6	30.2	37.7
GFC 8M-8N	8	1/2	6.3	27	16	16.2	18.6	35.8	43.3
GFC 10M-2N	10	1/8	7.9	18	19	17.2	19.5	25.4	33.0
GFC 10M-4N	10	1/4	7.9	19	19	17.2	19.5	30.2	37.8
GFC 10M-6N	10	3/8	7.9	22	19	17.2	19.5	31.0	38.6
GFC 10M-8N	10	1/2	7.9	27	19	17.2	19.5	36.6	44.2
GFC 12M-2N	12	1/8	9.5	22	22	22.8	22.0	28.4	38.5
GFC 12M-4N	12	1/4	9.5	22	22	22.8	22.0	30.2	40.3
GFC 12M-6N	12	3/8	9.5	22	22	22.8	22.0	31.0	41.1
GFC 12M-8N	12	1/2	9.5	27	22	22.8	22.0	36.6	46.7
GFC 12M-12N	12	3/4	9.5	35	22	22.8	22.0	38.9	49.0
GFC 15M-8N	15	1/2	11.9	27	25	24.4	22.0	36.6	46.7
GFC 16M-8N	16	1/2	12.7	27	25	24.4	22.0	36.8	46.9
GFC 20M-8N	20	3/4	15.9	30	32	26.0	22.0	37.8	47.9
GFC 20M-12N	20	3/4	15.9	35	32	26.0	22.0	39.6	49.7
GFC 22M-12N	22	3/4	18.3	35	32	26.0	22.0	39.6	49.7
GFC 22M-16N	22	1	18.3	41	32	26.0	22.0	47.8	57.9
GFC 25M-12N	25	3/4	21.8	35	38	31.3	26.5	41.1	53.4
GFC 25M-16N	25	1	21.8	41	38	31.3	26.5	50	62.3

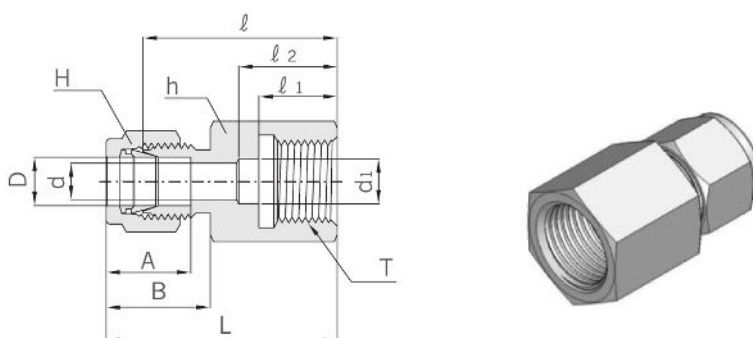
Female Connector Mod. GFC



Connects Metric Tube to Female ISO Tapered Thread

Part No.	Tube O.D. D	T R(PT)	D Min	Width across flat		A	B	ℓ	L
				h	H				
GFC 3M-2R	3	1/8	2.4	14	12	12.9	15.3	22.1	28.7
GFC 3M-4R	3	1/4	2.4	19	12	12.9	15.3	26.9	33.5
GFC 4M-2R	4	1/8	2.4	14	12	13.7	16.1	23.1	29.7
GFC 6M-2R	6	1/8	4.8	14	14	15.3	17.7	23.9	31.3
GFC 6M-4R	6	1/4	4.8	19	14	15.3	17.7	28.4	35.8
GFC 6M-6R	6	3/8	4.8	22	14	15.3	17.7	29.5	36.9
GFC 6M-8R	6	1/2	4.8	27	14	15.3	17.7	35.1	42.5
GFC 8M-2R	8	1/8	6.3	14	16	16.2	18.6	24.6	32.1
GFC 8M-4R	8	1/4	6.3	19	16	16.2	18.6	29.5	37.0
GFC 8M-6R	8	3/8	6.3	22	16	16.2	18.6	30.2	37.7
GFC 8M-8R	8	1/2	6.3	27	16	16.2	18.6	35.8	43.3
GFC 10M-2R	10	1/8	7.9	18	19	17.2	19.5	25.4	33.0
GFC 10M-4R	10	1/4	7.9	19	19	17.2	19.5	30.2	37.8
GFC 10M-6R	10	3/8	7.9	22	19	17.2	19.5	31.0	38.6
GFC 10M-8R	10	1/2	7.9	27	19	17.2	19.5	36.6	44.2
GFC 12M-2R	12	1/8	9.5	22	22	22.8	22.0	28.4	38.5
GFC 12M-4R	12	1/4	9.5	22	22	22.8	22.0	30.2	40.3
GFC 12M-6R	12	3/8	9.5	22	22	22.8	22.0	31.0	41.1
GFC 12M-8R	12	1/2	9.5	27	22	22.8	22.0	36.6	46.7
GFC 12M-12R	12	3/4	9.5	35	22	22.8	22.0	38.9	49.0
GFC 15M-8R	15	1/2	11.9	27	25	24.4	22.0	36.6	46.7
GFC 16M-8R	16	1/2	12.7	27	25	24.4	22.0	36.8	46.9
GFC 20M-8R	20	3/4	15.9	30	32	26.0	22.0	37.8	47.9
GFC 20M-12R	20	3/4	15.9	35	32	26.0	22.0	39.6	49.7
GFC 22M-12R	22	3/4	18.3	35	32	26.0	22.0	39.6	49.7
GFC 22M-16R	22	1	18.3	41	32	26.0	22.0	47.8	57.9
GFC 25M-12R	25	3/4	21.8	35	38	31.3	26.5	41.1	53.4
GFC 25M-16R	25	1	21.8	41	38	31.3	26.5	50	62.3

Gauge Connector Mod. GGC



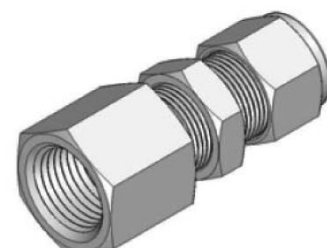
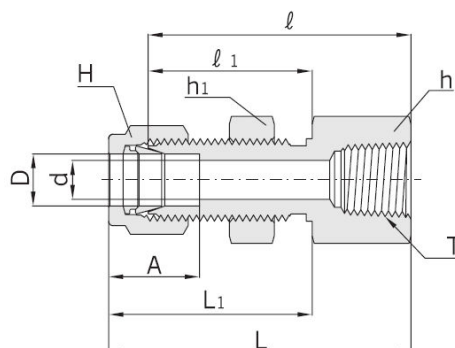
Connects Fractional Tube to ISO Parallel Thread (Gauge)

Part No.	Tube O.D.		T G(PF)	d Min	d1	Width across flat				A	B	ℓ	ℓ1	ℓ2	L
						h		H							
	In	mm				in	mm	in	mm						
GGC 4-2G	1/4	6.35	1/8	4.82	-	9/16	14.28	9/16	14.28	15.24	17.78	24.30	10.00	-	31.55
GGC 4-4G	1/4	6.35	1/4	4.82	5.58	3/4	19.05	9/16	14.28	15.24	17.78	30.22	13.00	17.0	37.59
GGC 4-6G	1/4	6.35	3/8	4.82	6.50	15/16	23.81	9/16	14.28	15.24	17.78	30.22	14.10	17.0	37.59
GGC 4-8G	1/4	6.35	1/2	4.82	6.50	11/16	26.98	9/16	14.28	15.24	17.78	36.07	18.80	23.0	43.43
GGC 5-4G	5/16	7.93	1/4	5.58	-	3/4	19.05	5/8	15.87	16.25	18.54	30.98	13.00	-	38.35
GGC 5-8G	5/16	7.93	1/2	7.11	-	1-1/16	26.98	5/8	15.87	16.25	18.54	33.02	19.00	-	40.38
GGC 6-4G	3/8	9.52	1/4	5.58	-	3/4	19.05	11/16	17.46	16.76	19.30	31.75	12.95	-	39.12
GGC 6-6G	3/8	9.52	3/8	6.60	-	15/16	23.81	11/16	17.46	16.76	19.30	31.24	14.00	-	38.61
GGC 6-8G	3/8	9.52	1/2	7.11	-	1-1/16	26.98	11/16	17.46	16.76	19.30	34.54	18.80	-	41.91
GGC 8-4G	1/2	12.70	1/4	5.50	-	7/8	20.63	7/8	22.22	22.86	21.84	31.80	12.90	-	41.95
GGC 8-6G	1/2	12.70	3/8	6.60	-	15/16	23.81	7/8	22.22	22.86	21.84	34.29	14.24	-	44.45
GGC 8-8G	1/2	12.70	1/2	7.11	-	1-1/16	26.98	7/8	22.22	22.86	21.84	38.10	18.80	-	48.22

Connects Metric Tube to ISO Parallel Thread (Gauge)

Part No.	Tube O.D.	T G(PF)	d Min	d1	Width across flat		A	B	ℓ	ℓ1	ℓ2	L
	D				h	h						
GGC 3M-4G	3	1/4	2.4	5.5	19	12	12.9	15.3	28.7	12.9	17	35.3
GGC 6M-4G	6	1/4	4.8	5.5	19	14	15.3	17.7	30.2	12.9	17	37.6
GGC 6M-6G	6	3/8	4.8	6.5	24	14	15.3	17.7	30.2	14.0	17	37.6
GGC 6M-8G	6	1/2	4.8	7.0	27	14	15.3	17.7	36.3	18.8	23	43.0
GGC 8M-4G	8	1/4	5.5	-	19	16	16.2	18.6	31.0	12.9	-	38.5
GGC 8M-6G	8	3/8	6.3	-	24	16	16.2	18.6	28.7	14.0	-	36.2
GGC 8M-8G	8	1/2	6.3	-	27	16	16.2	18.6	33.5	18.8	-	41.0
GGC 10M-4G	10	1/4	5.5	-	19	19	17.2	19.5	31.8	12.9	-	39.4
GGC 10M-6G	10	3/8	6.5	-	24	19	17.2	19.5	31.2	14.0	-	38.8
GGC 10M-8G	10	1/2	7.0	-	27	19	17.2	19.5	34.5	18.8	-	41.4
GGC 12M-4G	12	1/4	5.5	-	22	22	22.8	22.0	31.8	12.9	-	41.9
GGC 12M-6G	12	3/8	6.5	-	24	22	22.8	22.0	34.3	14.0	-	44.4
GGC 12M-8G	12	1/2	7.0	-	27	22	22.8	22.0	38.1	18.8	-	48.2
GGC 20M-8G	20	1/2	7.0	-	30	32	26.0	22.0	44.2	18.8	-	54.3
GGC 22M-8G	22	1/2	7.0	-	30	32	26.0	22.0	44.2	18.8	-	54.3

Bulkhead Female Connector Mod. GBFC



Connects Fractional Tube to Male NPT Thread

Part No.	Tube O.D.		T (NPT)	d Min	Width across flat						A	ℓ	ℓ ₁	L	L ₁	Panel Hole Drill Size	Panel Max Thk.
	D				h		h ₁		H								
					in	mm	in	mm	in	Mm							
GBFC 2-2N	1/8	3.17	1/8	2.28	9/16	14.28	1/2	12.70	7/16	11.11	12.70	38.10	24.63	44.70	31.24	8.38	12.70
GBFC 4-2N	1/4	6.35	1/8	4.82	5/8	15.87	5/8	15.87	9/16	14.28	15.24	39.62	26.16	46.99	33.52	11.50	10.16
GBFC 4-4N	1/4	6.35	1/4	4.82	3/4	19.05	5/8	15.87	9/16	14.28	15.24	44.45	26.16	51.81	33.52	11.50	10.16
GBFC 6-4N	3/8	9.52	1/4	7.00	3/4	19.05	3/4	19.05	11/16	17.46	16.76	47.75	29.46	55.11	36.83	14.68	11.17
GBFC 8-6N	1/2	12.70	3/8	10.41	15/16	23.81	15/16	23.81	7/8	22.22	22.86	51.56	31.75	61.72	41.91	19.44	12.70
GBFC 8-8N	1/2	12.70	1/2	10.41	1-1/16	26.98	15/16	23.81	7/8	22.22	22.86	56.38	31.75	66.54	41.91	19.44	12.70
GBFC 12-12N	3/4	19.05	3/4	15.74	1-5/16	33.33	1-3/16	30.16	1-1/8	28.57	24.38	63.60	38.30	73.51	47.21	25.79	16.76

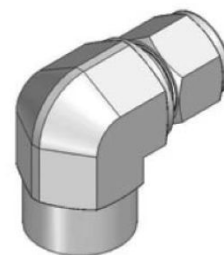
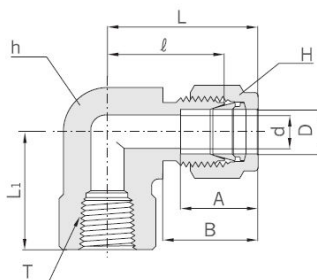
Connects Metric Tube to Male NPT Thread

Part No.	Tube O.D. D	T (NPT)	d Min	Width across flat			A	ℓ	ℓ ₁	L	L ₁	Panel Hole Drill Size	Panel Max Thk.
				h	h ₁	H							
GBFC 6M-2N	6	1/8	4.8	16.0	15.8	14	15.3	39.6	26.2	46.90	35.00	11.5	10.2
GBFC 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
GBFC 8M-4N	6	1/4	6.3	19.0	17.4	16	16.2	46.7	28.6	53.85	35.55	13.1	11.2
GBFC 12M-8N	6	1/2	9.5	27.0	24.0	22	22.8	56.4	31.8	66.50	41.90	19.5	12.7

Connects Metric Tube to Male ISO Tapered Thread

Part No.	Tube O.D. D	T R(PT)	d Min	Width across flat			A	ℓ	ℓ ₁	L	L ₁	Panel Hole Drill Size	Panel Max Thk.
				h	h ₁	H							
GBFC 6M-2R	6	1/8	4.8	16.0	15.8	14	15.3	39.6	26.2	46.90	35.00	11.5	10.2
GBFC 6M-4R	6	1/4	4.8	19.0	16.0	14	15.3	44.4	26.2	51.80	33.60	11.5	10.2
GBFC 8M-4R	6	1/4	6.3	19.0	17.4	16	16.2	46.7	28.6	53.85	35.55	13.1	11.2
GBFC 12M-8R	6	1/2	9.5	27.0	24.0	22	22.8	56.4	31.8	66.50	41.90	19.5	12.7

Female Elbow Mod. GFL



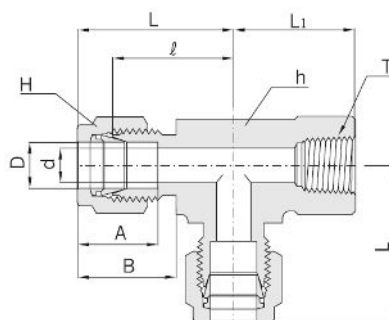
Connects Fractional Tube to Male NPT Thread

Part No.	Tube O.D. D		T (NPT)	d Min	Width across flat				A	B	ℓ	L	L1
	in	mm			h		H						
					in	mm	in	mm					
GFL 2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.03	24.63	19.05
GFL 2-4N	1/8	3.17	1/4	2.28	11/16	17.46	7/16	11.11	12.70	15.24	20.82	27.43	22.35
GFL 3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	19.05
GFL 4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	19.05
GFL 4-4N	1/4	6.35	1/4	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	22.35
GFL 4-6N	1/4	6.35	3/8	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.38	31.75	22.35
GFL 4-8N	1/4	6.35	1/2	4.82	1	25.40	9/16	14.28	15.24	17.78	27.17	34.54	28.44
GFL 5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.05
GFL 5-4N	5/16	7.93	1/4	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	22.35
GFL 6-2N	3/8	9.52	1/8	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	19.05
GFL 6-4N	3/8	9.52	1/4	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	22.35
GFL 6-6N	3/8	9.52	3/8	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	33.27	22.35
GFL 6-8N	3/8	9.52	1/2	7.11	1	25.40	11/16	17.46	16.76	19.30	28.70	36.06	28.44
GFL 8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
GFL 8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
GFL 8-8N	1/2	12.70	1/2	10.41	1	25.40	7/8	22.22	22.86	21.84	28.70	38.86	28.44
GFL 10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	27.94	38.10	22.35
GFL 10-8N	5/8	15.87	1/2	12.70	1	25.40	1	25.40	24.38	21.84	29.71	39.87	28.44
GFL 12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	28.44
GFL 12-12N	3/4	19.05	3/4	15.74	1-1/4	31.75	1-1/8	28.58	24.38	21.84	34.54	44.70	31.75
GFL 14-12N	7/8	22.22	3/4	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	31.75
GFL 16-12N	1	25.40	3/4	22.35	1-27/64	36.00	1-1/2	38.10	31.24	26.41	36.83	49.02	31.75
GFL 16-16N	1	25.40	1	22.35	1-11/16	42.86	1-1/2	38.10	31.24	26.41	41.40	50.29	38.10

Connects Metric Tube to Male NPT Thread

Part No.	Tube O.D. D	T (NPT)	d Min	Width across flat		A	B	ℓ	L	L1
				h	H					
GFL 6M-2N	6	1/8	4.8	12.70	14	15.3	17.7	19.6	27.0	19.00
GFL 6M-4N	6	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.40
GFL 6M-6N	6	3/8	4.8	20.64	14	15.3	17.7	24.4	31.7	22.40
GFL 6M-8N	6	1/2	4.8	25.40	14	15.3	17.7	27.2	34.6	28.40
GFL 8M-2N	8	1/8	6.4	15.87	16	16.2	18.6	23.1	29.9	19.00
GFL 8M-4N	8	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.40
GFL 8M-8N	8	1/2	6.4	25.40	16	16.2	18.6	28.0	35.2	28.40
GFL 10M-2N	10	1/8	7.9	17.46	19	17.2	19.5	23.9	31.5	19.00
GFL 10M-4N	10	1/4	7.9	17.46	19	17.2	19.5	25.9	33.5	22.35
GFL 10M-6N	10	3/8	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
GFL 10M-8N	10	1/2	7.9	25.40	19	17.2	19.5	28.7	36.1	28.40
GFL 12M-4N	12	1/4	9.5	20.64	22	22.8	22.0	25.9	36.0	22.40
GFL 12M-6N	12	3/8	9.5	20.64	22	22.8	22.0	25.9	36.2	22.35
GFL 12M-8N	12	1/2	9.5	25.40	22	22.8	22.0	28.7	38.8	28.40
GFL 16M-8N	16	1/2	12.7	26.98	25	24.4	22.0	29.7	39.5	28.40

Female Run Tee Mod. GFRT



Connects Fractional Tube to Male NPT Thread

Part No.	Tube O.D. D		T (NPT)	d Min	Width across flat				A	B	ℓ	L	L1
	in	mm			h		H						
					in	mm	in	mm					
GFRT 2-2N	1/8	3.17	1/8	2.28	9/16	14.28	7/16	11.11	12.70	15.24	18.03	24.63	19.05
GFRT 4-2N	1/4	6.35	1/8	4.82	9/16	14.28	9/16	14.28	15.24	17.78	19.55	26.92	19.05
GFRT 4-4N	1/4	6.35	1/4	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	22.35
GFRT 6-4N	3/8	9.52	1/4	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	22.35
GFRT 8-6N	1/2	12.70	3/8	10.41	13/16	20.63	7/8	22.22	22.86	21.84	25.90	36.06	22.35
GFRT 8-8N	1/2	12.70	1/2	10.41	1	25.40	7/8	22.22	22.86	21.84	28.70	38.86	28.44
GFRT 12-12N	3/4	19.05	3/4	15.74	1-3/8	34.92	1-1/8	28.57	24.38	21.84	34.54	44.70	31.75
GFRT 16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	31.75
GFRT 16-16N	1	25.40	1	22.35	1-11/16	42.86	1-1/2	38.10	31.24	26.41	41.40	53.29	38.10

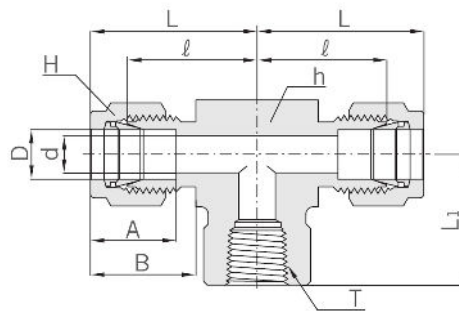
Connects Metric Tube to Male NPT Thread

Part No.	Tube O.D. D	T (NPT)	d Min	Width across flat		A	B	ℓ	L	L1
				h	H					
GFRT 6M-2N	6	1/8	4.8	14.0	14	15.3	17.7	19.6	27.0	19.0
GFRT 6M-4N	6	1/4	4.8	17.5	14	15.3	17.7	22.4	29.8	22.4
GFRT 6M-8N	6	1/2	4.8	25.4	14	15.3	17.7	27.2	34.5	28.4
GFRT 8M-2N	8	1/8	6.3	15.8	16	16.2	18.6	22.4	29.9	19.0
GFRT 8M-4N	8	1/4	6.3	17.5	16	16.2	18.6	23.1	30.6	22.4
GFRT 8M-6N	8	3/8	6.3	20.6	16	16.2	18.6	25.2	32.4	22.4
GFRT 8M-8N	8	1/2	6.3	25.4	16	16.2	18.6	28.0	35.2	28.4
GFRT 10M-4N	10	1/4	7.9	17.5	19	17.2	19.5	25.0	32.6	22.4
GFRT 12M-4N	12	1/4	9.5	20.6	22	22.8	22.0	25.9	36.0	22.4
GFRT 12M-6N	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	22.4
GFRT 12M-8N	12	1/2	9.5	25.4	22	22.8	22.0	28.7	38.8	28.4
GFRT 16M-8N	16	1/2	12.7	25.4	25	24.4	22.0	29.7	39.5	28.4

Connects Metric Tube to Male ISO Tapered Thread

Part No.	Tube O.D. D	T R(PT)	d Min	Width across flat		A	B	ℓ	L	L1
				h	H					
GFRT 6M-2R	6	1/8	4.8	14.0	14	15.3	17.7	19.6	27.0	19.0
GFRT 6M-4R	6	1/4	4.8	17.5	14	15.3	17.7	22.4	29.8	22.4
GFRT 6M-8R	6	1/2	4.8	25.4	14	15.3	17.7	27.2	34.5	28.4
GFRT 8M-2R	8	1/8	6.3	15.8	16	16.2	18.6	22.4	29.9	19.0
GFRT 8M-4R	8	1/4	6.3	17.5	16	16.2	18.6	23.1	30.6	22.4
GFRT 8M-6R	8	3/8	6.3	20.6	16	16.2	18.6	25.2	32.4	22.4
GFRT 8M-8R	8	1/2	6.3	25.4	16	16.2	18.6	28.0	35.2	28.4
GFRT 10M-4R	10	1/4	7.9	17.5	19	17.2	19.5	25.0	32.6	22.4
GFRT 12M-4R	12	1/4	9.5	20.6	22	22.8	22.0	25.9	36.0	22.4
GFRT 12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	22.4
GFRT 12M-8R	12	1/2	9.5	25.4	22	22.8	22.0	28.7	38.8	28.4
GFRT 16M-8R	16	1/2	12.7	25.4	25	24.4	22.0	29.7	39.5	28.4

Female Branch Tee Mod. GFBT



Connects Fractional Tube to Male NPT Thread

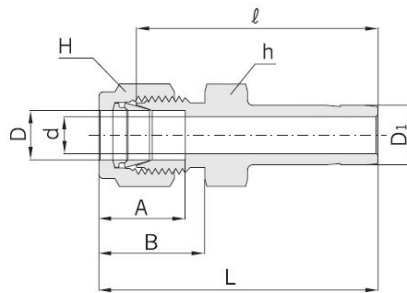
Part No.	Tube O.D.		T (NPT)	d Min	Width across flat				A	B	ℓ	L	L1
	D				h		H						
					in	mm	in	mm					
GFBT 2-2N	1/8	3.17	1/8	2.28	9/16	14.28	7/16	11.11	12.70	15.24	18.03	24.38	19.05
GFBT 4-2N	1/4	6.35	1/8	4.82	9/16	14.28	9/16	14.28	15.24	17.78	19.55	26.92	19.05
GFBT 4-4N	1/4	6.35	1/4	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	22.35
GFBT 6-4N	3/8	9.52	1/4	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	22.35
GFBT 8-4N	1/2	12.70	1/4	10.41	13/16	20.63	7/8	22.22	22.86	21.84	25.90	36.06	22.35
GFBT 8-6N	1/2	12.70	3/8	10.41	13/16	20.63	7/8	22.22	22.86	21.84	25.90	36.06	22.35
GFBT 8-8N	1/2	12.70	1/2	10.41	1	25.40	7/8	22.22	22.86	21.84	28.70	38.86	28.44
GFBT 10-8N	5/8	15.87	1/2	12.70	1	25.40	1	25.40	24.38	21.84	28.70	38.86	28.44
GFBT 12-12N	3/4	19.05	3/4	15.74	1-3/8	34.92	1-1/8	28.57	24.38	21.84	34.54	44.70	31.75
GFBT 16-12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	31.75
GFBT 16-16N	1	25.40	1	22.35	1-11/16	42.86	1-1/2	38.10	31.24	26.41	44.20	53.59	38.10

Connects Metric Tube to Male NPT Thread

Part No.	Tube O.D. D	T* (NPT)	d Min	Width across flat		A	B	ℓ	L	L ₁
				h	H					
GFBT 6M-2N	6	1/8	4.8	14.0	14	15.3	17.7	19.6	27.0	19.0
GFBT 6M-4N	6	1/4	4.8	17.5	14	15.3	17.7	22.4	29.8	22.4
GFBT 6M-6N	6	3/8	4.8	20.6	14	15.3	17.7	24.4	31.7	22.4
GFBT 6M-8N	6	1/2	4.8	25.4	14	15.3	17.7	27.2	34.5	28.4
GFBT 8M-2N	8	1/8	6.3	15.8	16	16.2	18.6	23.1	29.9	19.0
GFBT 8M-4N	8	1/4	6.3	17.5	16	16.2	18.6	23.1	30.6	22.4
GFBT 8M-6N	8	3/8	6.3	20.6	16	16.2	18.6	25.2	32.4	22.4
GFBT 8M-8N	8	1/2	6.3	25.4	16	16.2	18.6	28.0	35.2	28.4
GFBT 10M-4N	10	1/4	7.9	20.6	19	17.2	19.5	25.9	33.5	22.4
GFBT 10M-6N	10	3/8	7.9	20.6	19	17.2	19.5	25.9	33.3	22.4
GFBT 10M-8N	10	1/2	9.5	25.4	19	17.2	19.5	28.7	36.1	22.4
GFBT 12M-4N	12	1/4	9.5	20.6	22	22.8	22.0	25.9	36.0	22.4
GFBT 12M-6N	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	22.4
GFBT 12M-8N	12	1/2	9.5	25.4	22	22.8	22.0	28.7	38.8	28.4
GFBT 16M-8N	16	1/2	12.7	25.4	25	24.4	22.0	28.7	38.8	28.4

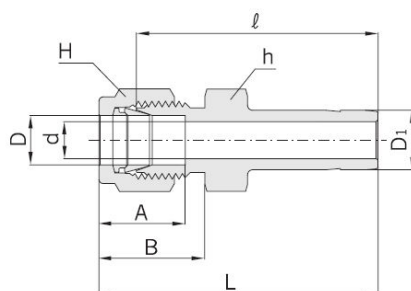
* ISO TAPERED THREADS ARE AVAILABLE UPON REQUEST.

Reducers Mod. GR



Connects Fractional Tube to Fractional GPI Port													
Part No.	Tube O.D.				d	Width across flat				A	B	ℓ	L
	D		D ₁			h		H					
	in	mm	in	mm		Min	in	mm	in				
GR 1-2	1/16	1.58	1/8	3.17	1.27	5/16	7.93	5/16	7.93	8.63	10.92	25.40	29.21
GR 1-4	1/16	1.58	1/4	6.35	1.27	5/16	7.93	5/16	7.93	8.63	10.92	27.68	31.49
GR 2-1	1/8	3.17	1/16	1.58	0.76	7/16	11.11	7/16	11.11	12.70	15.24	22.35	28.95
GR 2-2	1/8	3.17	1/8	3.17	2.03	7/16	11.11	7/16	11.11	12.70	15.24	26.92	33.52
GR 2-3	1/8	3.17	3/16	4.76	2.28	7/16	11.11	7/16	11.11	12.70	15.24	27.68	34.29
GR 2-4	1/8	3.17	1/4	6.35	2.28	7/16	11.11	7/16	11.11	12.70	15.24	29.46	36.06
GR 2-6	1/8	3.17	3/8	9.52	2.28	7/16	11.11	7/16	11.11	12.70	15.24	30.98	37.59
GR 2-8	1/8	3.17	1/2	12.70	2.28	9/16	14.28	7/16	11.11	12.70	15.24	37.59	44.19
GR 3-2	3/16	4.76	1/8	3.17	1.70	7/16	11.11	1/2	12.70	13.71	16.00	28.19	34.79
GR 3-4	3/16	4.76	1/4	6.35	3.04	7/16	11.11	1/2	12.70	13.71	16.00	30.48	37.08
GR 4-2	1/4	6.35	1/8	3.17	2.03	1/2	12.70	9/16	14.28	15.24	17.78	29.46	36.83
GR 4-3	1/4	6.35	3/16	4.76	3.04	1/2	12.70	9/16	14.28	15.24	17.78	30.22	37.59
GR 4-4	1/4	6.35	1/4	6.35	4.32	1/2	12.70	9/16	14.28	15.24	17.78	31.75	39.11
GR 4-5	1/4	6.35	5/16	7.93	4.82	1/2	12.70	9/16	14.28	15.24	17.78	32.51	39.87
GR 4-6	1/4	6.35	3/8	9.52	4.82	1/2	12.70	9/16	14.28	15.24	17.78	33.27	40.64
GR 4-8	1/4	6.35	1/2	12.70	4.82	9/16	14.28	9/16	14.28	15.24	17.78	38.86	46.22
GR 4-10	1/4	6.35	5/8	15.87	4.82	11/16	17.46	9/16	14.28	15.24	17.78	40.64	48.00
GR 4-12	1/4	6.35	3/4	19.05	4.82	13/16	20.63	9/16	14.28	15.24	17.78	40.38	47.75
GR 5-6	5/16	7.93	3/8	9.52	6.35	9/16	14.28	5/8	15.87	16.25	18.54	34.54	41.91
GR 5-8	5/16	7.93	1/2	12.70	6.35	9/16	14.28	5/8	15.87	16.25	18.54	40.13	47.49
GR 6-4	3/8	9.52	1/4	6.35	4.32	5/8	15.87	11/16	17.46	16.76	19.30	34.03	41.40
GR 6-6	3/8	9.52	3/8	9.52	6.86	5/8	15.87	11/16	17.46	16.76	19.30	35.81	43.18
GR 6-8	3/8	9.52	1/2	12.70	7.11	5/8	15.87	11/16	17.46	16.76	19.30	41.14	48.51
GR 6-10	3/8	9.52	5/8	15.87	7.11	11/16	17.46	11/16	17.46	16.76	19.30	42.92	50.29
GR 6-12	3/8	9.52	3/4	19.05	7.11	13/16	20.63	11/16	17.46	16.76	19.30	42.92	50.29
GR 8-4	1/2	12.70	1/4	6.35	4.32	13/16	20.63	7/8	22.22	22.86	21.84	34.79	44.95
GR 8-6	1/2	12.70	3/8	9.52	6.86	13/16	20.63	7/8	22.22	22.86	21.84	36.57	46.73
GR 8-8	1/2	12.70	1/2	12.70	9.40	13/16	20.63	7/8	22.22	22.86	21.84	42.16	52.32
GR 8-10	1/2	12.70	5/8	15.87	10.41	13/16	20.63	7/8	22.22	22.86	21.84	43.68	53.84
GR 8-12	1/2	12.70	3/4	19.05	10.41	13/16	20.63	7/8	22.22	22.86	21.84	43.68	53.84
GR 8-16	1/2	12.70	1	25.40	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	50.03	60.19
GR 10-12	5/8	15.87	3/4	19.05	12.70	15/16	23.81	1	25.40	24.38	21.84	44.45	54.61
GR 10-14	5/8	15.87	7/8	22.22	12.70	15/16	23.81	1	25.40	24.38	21.84	45.97	56.13
GR 10-16	5/8	15.87	1	25.40	12.70	1-1/16	26.98	1	25.40	24.38	21.84	50.80	60.96
GR 12-8	3/4	19.05	1/2	12.70	9.40	1-1/16	26.98	1-1/8	28.57	24.38	21.84	44.45	54.61
GR 12-16	3/4	19.05	1	25.40	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	52.32	62.48
GR 16-20	1	25.40	1-1/4	31.75	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	68.32	80.51
GR 16-24	1	25.40	1-1/2	38.10	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	76.96	89.15
GR 16-32	1	25.40	2	50.80	22.35	2-1/8	53.97	1-1/2	38.10	31.24	26.41	100.33	112.52
GR 20-24	1-1/4	31.75	1-1/2	38.10	27.68	1-3/4	44.45	1-7/8	47.62	41.14	38.86	82.04	104.14
GR 20-32	1-1/4	31.75	2	50.80	27.68	2-1/8	53.97	1-7/8	47.62	41.14	38.86	103.12	125.22
GR 24-32	1-1/2	38.10	2	50.80	34.03	2-1/4	57.15	2-1/4	57.15	50.03	45.21	104.14	131.31

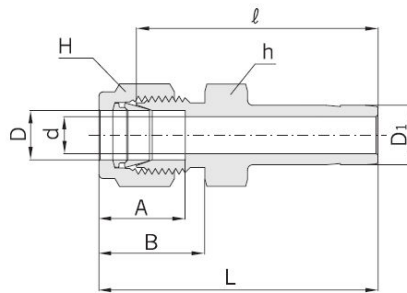
Reducers Mod. GR



Connects Metric Tube to Fractional GPI Port

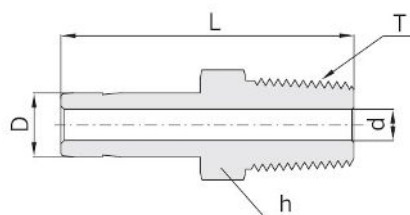
Connects Metric Tube to Fractional GPI Port										
Part No.	Tube O.D.			d	Width across flat		A	B	ℓ	L
	D	D1			h	H				
		in	mm	Min						
GR 2M-2	2	1/8	3.17	1.7	12	12	12.9	15.3	26.9	33.5
GR 3M-2	3	1/8	3.17	2.0	12	12	12.9	15.3	26.9	33.5
GR 3M-4	3	1/4	6.35	2.4	12	12	12.9	15.3	29.5	36.1
GR 4M-4	4	1/4	6.35	2.4	12	12	13.7	16.1	30.5	37.1
GR 6M-2	6	1/8	3.17	2.0	14	14	15.3	17.7	29.5	36.9
GR 6M-4	6	1/4	6.35	4.8	14	14	15.3	17.7	31.8	39.2
GR 6M-5	6	5/16	7.93	4.8	14	14	15.3	17.7	32.5	39.9
GR 6M-6	6	3/8	9.52	4.8	14	14	15.3	17.7	33.3	40.7
GR 6M-8	6	1/2	12.70	4.8	14	14	15.3	17.7	38.9	46.3
GR 8M-6	8	3/8	9.52	6.3	14	16	16.2	18.6	34.5	42.0
GR 8M-8	8	1/2	12.70	6.3	14	16	16.2	18.6	40.1	47.6
GR 10M-6	10	3/8	9.52	6.9	17	19	17.2	19.5	36.6	44.2
GR 10M-8	10	1/2	12.70	7.9	17	19	17.2	19.5	42.2	49.8
GR 12M-8	12	1/2	12.70	9.4	22	22	22.8	22.0	42.2	52.3
GR 12M-12	12	3/4	19.05	9.4	22	22	22.8	22.0	43.7	53.8
GR 18M-12	18	3/4	19.05	14.7	27	30	24.4	22.0	46.0	56.1
GR 18M-16	18	1	25.40	15.1	27	30	24.4	22.0	52.3	62.4
GR 25M-16	25	1	25.40	20.0	35	38	31.3	26.5	57.2	69.5

Reducers Mod. GR



Connects Metric Tube to Metric GPI Port									
Part No.	Tube O.D.		d Min	Width across flat		A	B	ℓ	L
	D	D1		h	H				
GR 2M-3M	2	3	1.7	12	12	12.9	15.3	26.9	33.5
GR 3M-4M	3	4	2.2	12	12	12.9	15.3	28.4	35.0
GR 3M-6M	3	6	2.4	12	12	12.9	15.3	29.5	36.1
GR 3M-10M	3	10	2.4	12	12	12.9	15.3	31.8	38.4
GR 4M-6M	4	6	2.4	12	12	13.7	16.1	30.5	37.1
GR 6M-3M	6	3	1.9	14	14	15.3	17.7	29.5	36.9
GR 6M-8M	6	8	4.8	14	14	15.3	17.7	32.5	39.9
GR 6M-10M	6	10	4.8	14	14	15.3	17.7	33.3	40.7
GR 6M-12M	6	12	4.8	14	14	15.3	17.7	38.9	46.3
GR 8M-6M	8	6	4.1	14	16	16.2	18.6	32.8	40.3
GR 8M-10M	8	10	6.3	14	16	16.2	18.6	34.5	42.0
GR 8M-12M	8	12	6.3	14	16	16.2	18.6	40.1	47.6
GR 10M-6M	10	6	4.1	17	19	17.2	19.5	34.8	42.4
GR 10M-12M	10	12	7.9	17	19	17.2	19.5	42.2	49.8
GR 10M-15M	10	15	7.9	17	19	17.2	19.5	43.7	51.3
GR 10M-18M	10	18	7.9	19	19	17.2	19.5	43.7	51.3
GR 12M-6M	12	6	4.1	22	22	22.8	22.0	34.8	44.9
GR 12M-10M	12	10	7.1	22	22	22.8	22.0	36.6	46.7
GR 12M-16M	12	16	9.5	22	22	22.8	22.0	43.7	53.8
GR 12M-18M	12	18	9.5	22	22	22.8	22.0	43.7	53.8
GR 12M-20M	12	20	9.5	22	22	22.8	22.0	46.0	56.1
GR 12M-22M	12	22	9.5	24	22	22.8	22.0	46.0	56.1
GR 12M-25M	12	25	9.5	27	22	22.8	22.0	52.3	62.4
GR 16M-12M	16	12	8.8	24	25	24.4	22.0	42.9	53.0
GR 18M-12M	18	12	8.8	27	30	24.4	22.0	44.5	54.6
GR 18M-16M	18	16	12.0	27	30	24.4	22.0	46.0	56.1
GR 18M-20M	18	20	15.1	27	30	24.4	22.0	47.5	57.6
GR 18M-22M	18	22	15.1	27	30	24.4	22.0	47.5	57.6
GR 18M-25M	18	25	15.1	27	30	24.4	22.0	52.3	62.4
GR 20M-16M	20	16	12.0	30	32	26.0	22.0	47.8	57.9
GR 20M-18M	20	18	13.9	30	32	26.0	22.0	47.8	57.9
GR 20M-22M	20	22	15.9	30	32	26.0	22.0	49.3	59.4
GR 20M-25M	20	25	15.9	30	32	26.0	22.0	54.1	64.2
GR 22M-18M	22	18	13.9	30	32	26.0	22.0	47.8	57.9
GR 22M-20M	22	20	15.5	30	32	26.0	22.0	49.3	59.4
GR 22M-25M	22	25	18.3	30	32	26.0	22.0	54.1	64.2
GR 25M-18M	25	18	13.9	35	38	31.3	26.5	50.8	63.1
GR 25M-20M	25	20	15.5	35	38	31.3	26.5	52.3	64.6

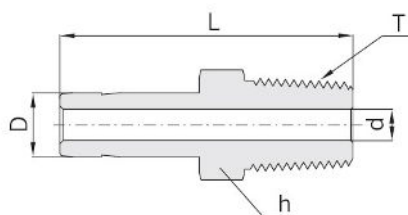
Male Adapter Mod. GMA



Connects Fractional GPI port to Female NPT Thread							
Part No.	Tube O.D. D		T (NPT)	d Min	Width across flat h		L
	in	mm			in	mm	
GMA 2-2N	1/8	3.17	1/8	2.03	7/16	11.11	29.50
GMA 2-4N	1/8	3.17	1/4	2.03	9/16	14.28	34.80
GMA 3-2N	3/16	4.76	1/8	3.04	7/16	11.11	30.22
GMA 3-4N	3/16	4.76	1/4	3.04	9/16	14.28	35.56
GMA 4-2N	1/4	6.35	1/8	4.32	7/16	11.11	31.80
GMA 4-4N	1/4	6.35	1/4	4.32	9/16	14.28	37.08
GMA 4-6N	1/4	6.35	3/8	4.32	11/16	17.46	37.84
GMA 4-8N	1/4	6.35	1/2	4.32	7/8	22.22	43.43
GMA 5-2N	5/16	7.93	1/8	4.57	7/16	11.11	32.76
GMA 5-4N	5/16	7.93	1/4	5.59	9/16	14.28	38.10
GMA 6-2N	3/8	9.52	1/8	4.83	7/16	11.11	33.50
GMA 6-4N	3/8	9.52	1/4	6.86	9/16	14.28	38.90
GMA 6-6N	3/8	9.52	3/8	6.86	11/16	17.46	39.60
GMA 6-8N	3/8	9.52	1/2	6.86	7/8	22.22	45.20
GMA 8-4N	1/2	12.70	1/4	7.11	9/16	14.28	44.50
GMA 8-6N	1/2	12.70	3/8	9.40	11/16	17.46	45.20
GMA 8-8N	1/2	12.70	1/2	9.40	7/8	22.22	50.80
GMA 10-6N	5/8	15.87	3/8	9.50	11/16	17.46	47.40
GMA 10-8N	5/8	15.87	1/2	11.94	7/8	22.22	52.30
GMA 10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	52.30
GMA 12-8N	3/4	19.05	1/2	11.94	7/8	22.22	52.30
GMA 12-12N	3/4	19.05	3/4	14.73	1-1/16	26.98	52.30
GMA 12-16N	3/4	19.05	1	14.73	1-3/8	34.92	57.91
GMA 14-12N	7/8	22.22	3/4	15.75	1-1/16	26.98	54.80
GMA 16-12N	1	25.40	3/4	15.75	1-1/16	26.98	58.70
GMA 16-16N	1	25.40	1	20.32	1-3/8	34.92	66.00
GMA 20-20N	1-1/4	31.75	1-1/4	25.91	1-3/4	44.45	80.26
GMA 24-24N	1-1/2	38.10	1-1/2	31.75	2-1/8	53.97	94.48
GMA 32-32N	2	50.80	2	43.69	2-9/16	65.09	119.38

Connects Fractional GPI port to Female NPT Thread					
Part No.	Tube O.D. D	T (NPT)	d Min	Width across flat h	L
GMA 6M-2N	6	1/8	4.1	12	32.8
GMA 6M-4N	6	1/4	4.1	14	38.1
GMA 8M-4N	8	1/4	5.6	14	39.1
GMA 10M-4N	10	1/4	7.1	14	39.9
GMA 10M-6N	10	3/8	7.1	17	40.6
GMA 10M-8N	10	1/2	7.1	22	45.2
GMA 12M-4N	12	1/4	7.1	14	46.5
GMA 12M-6N	12	3/8	8.8	17	46.2
GMA 12M-8N	12	1/2	8.8	22	52.0
GMA 18M-8N	18	1/2	11.9	22	53.2
GMA 18M-12N	18	3/4	13.9	27	53.2
GMA 28M-16N	28	1	22.2	35	74.7
GMA 28M-20N	28	1-1/4	22.4	46	76.2
GMA 32M-20N	32	1-1/4	26.5	46	81.0
GMA 38M-24N	38	1-1/2	31.8	55	92.2

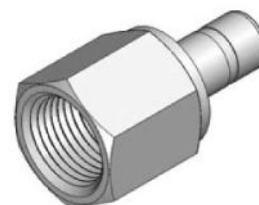
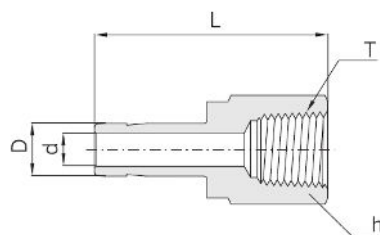
Male Adapter Mod. GMA



Connects Fractional GPI port to Female ISO Tapered Thread							
Part No.	Tube O.D. D		T	d	Width across flat h		L
	in	mm	R(PT)	Min	in	mm	
GMA 2-2R	1/8	3.17	1/8	2.03	7/16	11.11	29.50
GMA 2-4R	1/8	3.17	1/4	2.03	9/16	14.28	34.80
GMA 3-2R	3/16	4.76	1/8	3.04	7/16	11.11	30.22
GMA 3-4R	3/16	4.76	1/4	3.04	9/16	14.28	35.56
GMA 4-2R	1/4	6.35	1/8	4.32	7/16	11.11	31.80
GMA 4-4R	1/4	6.35	1/4	4.32	9/16	14.28	37.08
GMA 4-6R	1/4	6.35	3/8	4.32	11/16	17.46	37.84
GMA 4-8R	1/4	6.35	1/2	4.32	7/8	22.22	43.43
GMA 5-2R	5/16	7.93	1/8	4.57	7/16	11.11	32.76
GMA 5-4R	5/16	7.93	1/4	5.59	9/16	14.28	38.10
GMA 6-2R	3/8	9.52	1/8	4.83	7/16	11.11	33.50
GMA 6-4R	3/8	9.52	1/4	6.86	9/16	14.28	38.90
GMA 6-6R	3/8	9.52	3/8	6.86	11/16	17.46	39.60
GMA 6-8R	3/8	9.52	1/2	6.86	7/8	22.22	45.20
GMA 8-4R	1/2	12.70	1/4	7.11	9/16	14.28	44.50
GMA 8-6R	1/2	12.70	3/8	9.40	11/16	17.46	45.20
GMA 8-8R	1/2	12.70	1/2	9.40	7/8	22.22	50.80
GMA 10-6R	5/8	15.87	3/8	9.50	11/16	17.46	47.40
GMA 10-8R	5/8	15.87	1/2	11.94	7/8	22.22	52.30
GMA 10-12R	5/8	15.87	3/4	12.70	1-1/16	26.98	52.30
GMA 12-8R	3/4	19.05	1/2	11.94	7/8	22.22	52.30
GMA 12-12R	3/4	19.05	3/4	14.73	1-1/16	26.98	52.30
GMA 12-16R	3/4	19.05	1	14.73	1-3/8	34.92	57.91
GMA 14-12R	7/8	22.22	3/4	15.75	1-1/16	26.98	54.80
GMA 16-12R	1	25.40	3/4	15.75	1-1/16	26.98	58.70
GMA 16-16R	1	25.40	1	20.32	1-3/8	34.92	66.00
GMA 20-20R	1-1/4	31.75	1-1/4	25.91	1-3/4	44.45	80.26
GMA 24-24R	1-1/2	38.10	1-1/2	31.75	2-1/8	53.97	94.48
GMA 32-32R	2	50.80	2	43.69	2-9/16	65.09	119.38

Connects Fractional GPI port to Female ISO Tapered Thread					
Part No.	Tube O.D. D	T R(PT)	d Min	Width across flat h	L
GMA 6M-2R	6	1/8	4.1	12	32.8
GMA 6M-4R	6	1/4	4.1	14	38.1
GMA 8M-4R	8	1/4	5.6	14	39.1
GMA 10M-4R	10	1/4	7.1	14	39.9
GMA 10M-6R	10	3/8	7.1	17	40.6
GMA 10M-8R	10	1/2	7.1	22	45.2
GMA 12M-4R	12	1/4	7.1	14	46.5
GMA 12M-6R	12	3/8	8.8	17	46.2
GMA 12M-8R	12	1/2	8.8	22	52.0
GMA 18M-8R	18	1/2	11.9	22	53.2
GMA 18M-12R	18	3/4	13.9	27	53.2
GMA 28M-16R	28	1	22.2	35	74.7
GMA 28M-20R	28	1-1/4	22.4	46	76.2
GMA 32M-20R	32	1-1/4	26.5	46	81.0
GMA 38M-24R	38	1-1/2	31.8	55	92.2

Female Adapter Mod. GFA



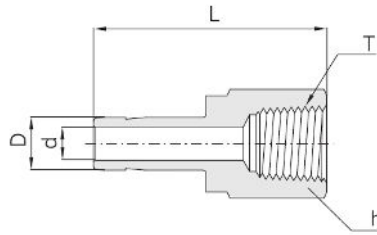
Connects Fractional GPI port to Male NPT Thread

Part No.	Tube O.D. D		T (NPT)	d Min	Width across flat h		L
	in	mm			in	mm	
GFA 2-2N	1/8	3.17	1/8	2.03	9/16	14.28	31.50
GFA 2-4N	1/8	3.17	1/4	2.03	3/4	19.05	35.30
GFA 3-2N	3/16	4.76	1/8	3.04	9/16	14.28	32.00
GFA 3-4N	3/16	4.76	1/4	3.04	3/4	19.05	35.81
GFA 4-2N	1/4	6.35	1/8	4.32	9/16	14.28	33.02
GFA 4-4N	1/4	6.35	1/4	4.32	3/4	19.05	37.10
GFA 4-6N	1/4	6.35	3/8	4.32	7/8	22.22	39.37
GFA 4-8N	1/4	6.35	1/2	4.32	1-1/16	26.98	45.50
GFA 5-2N	5/16	7.93	1/8	5.59	9/16	14.28	34.29
GFA 5-4N	5/16	7.93	1/4	5.59	3/4	19.05	37.59
GFA 6-2N	3/8	9.52	1/8	6.86	9/16	14.28	34.29
GFA 6-4N	3/8	9.52	1/4	6.86	3/4	19.05	38.10
GFA 6-6N	3/8	9.52	3/8	6.86	7/8	22.22	40.38
GFA 6-8N	3/8	9.52	1/2	6.86	1-1/16	26.98	46.73
GFA 8-4N	1/2	12.70	1/4	9.40	3/4	19.05	43.43
GFA 8-6N	1/2	12.70	3/8	9.40	7/8	22.22	45.46
GFA 8-8N	1/2	12.70	1/2	9.40	1-1/16	26.98	51.80
GFA 10-6N	5/8	15.87	3/8	11.94	7/8	22.22	48.26
GFA 10-8N	5/8	15.87	1/2	11.94	1-1/16	26.98	53.84
GFA 10-12N	5/8	15.87	3/4	11.94	1-5/16	33.33	55.37
GFA 12-8N	3/4	19.05	1/2	14.73	1-1/16	26.98	52.83
GFA 12-12N	3/4	19.05	3/4	14.73	1-5/16	33.33	54.86
GFA 12-16N	3/4	19.05	1	14.73	1-5/8	41.27	58.42
GFA 14-12N	7/8	22.22	3/4	18.20	1-5/16	33.33	57.15
GFA 16-12N	1	25.40	3/4	20.32	1-5/16	33.33	60.70
GFA 16-16N	1	25.40	1	20.32	1-5/8	41.27	64.26
GFA 20-20N	1-1/4	31.75	1-1/4	25.91	2-1/8	53.98	77.72
GFA 24-24N	1-1/2	38.10	1-1/2	31.75	2-3/8	60.33	88.90
GFA 32-32N	2	50.80	2	43.69	2-7/8	73.03	107.44

Connects Metric GPI Port to Male NPT Thread

Part No.	Tube O.D. D	T (NPT)	d Min	Width across flat	L
				h	
GFA 3M-2N	3	1/8	1.9	14	31.15
GFA 6M-2N	6	1/8	4.1	14	32.50
GFA 6M-4N	6	1/4	4.1	19	37.10
GFA 8M-4N	8	1/4	5.6	19	37.60
GFA 10M-4N	10	1/4	7.1	19	38.10
GFA 10M-6N	10	3/8	7.1	22	40.10
GFA 10M-8N	10	1/2	7.1	27	46.50
GFA 12M-4N	12	1/4	8.8	19	43.70
GFA 12M-6N	12	3/8	8.8	22	46.00
GFA 12M-8N	12	1/2	8.8	27	52.30
GFA 18M-12N	18	3/4	13.9	35	54.80

Female Adapter Mod. GFA



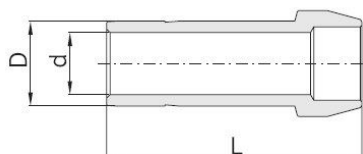
Connects Fractional GPI port to Male ISO Tapered Thread

Part No.	Tube O.D. D		T R(PT)	d Min	Width across flat h		L
	in	mm			in	mm	
GFA 2-2R	1/8	3.17	1/8	2.03	9/16	14.28	31.50
GFA 2-4R	1/8	3.17	1/4	2.03	3/4	19.05	35.30
GFA 3-2R	3/16	4.76	1/8	3.04	9/16	14.28	32.00
GFA 3-4R	3/16	4.76	1/4	3.04	3/4	19.05	35.81
GFA 4-2R	1/4	6.35	1/8	4.32	9/16	14.28	33.02
GFA 4-4R	1/4	6.35	1/4	4.32	3/4	19.05	37.10
GFA 4-6R	1/4	6.35	3/8	4.32	7/8	22.22	39.37
GFA 4-8R	1/4	6.35	1/2	4.32	1-1/16	26.98	45.50
GFA 5-2R	5/16	7.93	1/8	5.59	9/16	14.28	34.29
GFA 5-4R	5/16	7.93	1/4	5.59	3/4	19.05	37.59
GFA 6-2R	3/8	9.52	1/8	6.86	9/16	14.28	34.29
GFA 6-4R	3/8	9.52	1/4	6.86	3/4	19.05	38.10
GFA 6-6R	3/8	9.52	3/8	6.86	7/8	22.22	40.38
GFA 6-8R	3/8	9.52	1/2	6.86	1-1/16	26.98	46.73
GFA 8-4R	1/2	12.70	1/4	9.40	3/4	19.05	43.43
GFA 8-6R	1/2	12.70	3/8	9.40	7/8	22.22	45.46
GFA 8-8R	1/2	12.70	1/2	9.40	1-1/16	26.98	51.80
GFA 10-6R	5/8	15.87	3/8	11.94	7/8	22.22	48.26
GFA 10-8R	5/8	15.87	1/2	11.94	1-1/16	26.98	53.84
GFA 10-12R	5/8	15.87	3/4	11.94	1-5/16	33.33	55.37
GFA 12-8R	3/4	19.05	1/2	14.73	1-1/16	26.98	52.83
GFA 12-12R	3/4	19.05	3/4	14.73	1-5/16	33.33	54.86
GFA 12-16R	3/4	19.05	1	14.73	1-5/8	41.27	58.42
GFA 14-12R	7/8	22.22	3/4	18.20	1-5/16	33.33	57.15
GFA 16-12R	1	25.40	3/4	20.32	1-5/16	33.33	60.70
GFA 16-16R	1	25.40	1	20.32	1-5/8	41.27	64.26
GFA 20-20R	1-1/4	31.75	1-1/4	25.91	2-1/8	53.98	77.72
GFA 24-24R	1-1/2	38.10	1-1/2	31.75	2-3/8	60.33	88.90
GFA 32-32R	2	50.80	2	43.69	2-7/8	73.03	107.44

Connects Metric GPI Port to Male ISO Tapered Thread

Part No.	Tube O.D. D	T R(PT)	d Min	Width across flat	L
				h	
GFA 3M-2R	3	1/8	1.9	14	31.15
GFA 6M-2R	6	1/8	4.1	14	32.50
GFA 6M-4R	6	1/4	4.1	19	37.10
GFA 8M-4R	8	1/4	5.6	19	37.60
GFA 10M-4R	10	1/4	7.1	19	38.10
GFA 10M-6R	10	3/8	7.1	22	40.10
GFA 10M-8R	10	1/2	7.1	27	46.50
GFA 12M-4R	12	1/4	8.8	19	43.70
GFA 12M-6R	12	3/8	8.8	22	46.00
GFA 12M-8R	12	1/2	8.8	27	52.30
GFA 18M-12R	18	3/4	13.9	35	54.80

Port Connector Mod. GPC



Connects two Fractional GPI ports				
Part No.	Tube O.D. D		d Min	L
	in	mm		
GPC-1	1/16	1.58	0.76	13.72
GPC-2	1/8	3.17	2.03	22.35
GPC-4	1/4	6.35	4.32	24.89
GPC-5	5/16	7.93	5.59	25.91
GPC-6	3/8	9.52	6.86	26.67
GPC-8	1/2	12.70	9.40	36.32
GPC-12	3/4	19.05	14.73	37.85
GPC-16	1	25.40	20.32	49.28

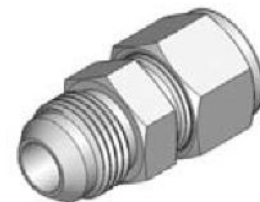
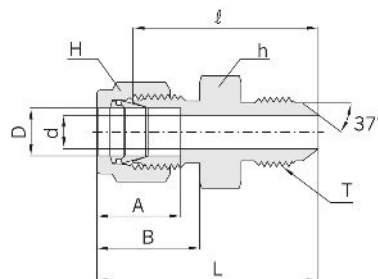
Connects two Metric GPI ports				
Part No.	Tube O.D. D		d Min	L
GPC-3M	3		1.9	22.20
GPC-4M	4		2.2	23.81
GPC-6M	6		4.1	25.00
GPC-8M	8		5.6	26.00
GPC-10M	10		7.1	27.10
GPC-12M	12		8.8	36.20
GPC-15M	15		11.2	37.80
GPC-16M	16		12.0	37.80
GPC-18M	18		13.9	37.80
GPC-20M	20		15.5	39.40
GPC-22M	22		16.1	38.97
GPC-25M	25		19.9	49.30
GPC-28M	28		22.5	63.50
GPC-32M	32		26.5	69.70
GPC-38M	38		31.6	81.90

16.1

Installation Instructions:

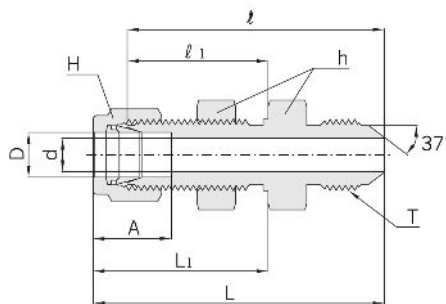
1. Remove the nut and ferrules from GLOK port 1 and set nut only (no ferrules) over the port connector.
2. Tighten the nut with wrench until sharp rise in torque is felt.
3. Insert the other end of port connector into port 2 and tighten nut 1-1/4 turns with wrench.
for 1/8", 3mm only 3/4 turn from finger tight.

AN Union Mod. GAU



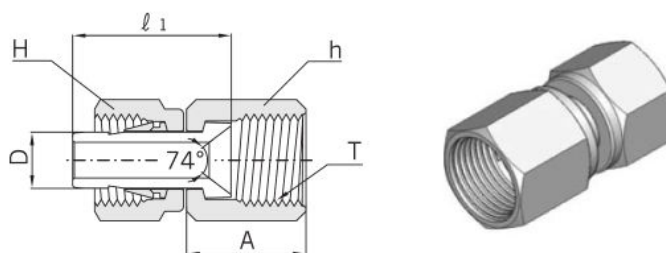
Connects Fractional Tube to AN Flared tube														
Part No.	Tube O.D. D		AN Tube Flare Size		Straight-Thread T(U)	E Min	Width across flat				A	B	ℓ	L
	in	mm	in	mm			h		H					
							in	mm	in	mm				
GAU 1-2	1/16	1.58	1/8	3.17	5/16-24	1.27	7/16	11.11	5/16	7.93	8.63	10.92	23.36	27.17
GAU 2-2	1/8	3.17	1/8	3.17	5/16-24	1.52	7/16	11.11	7/16	11.11	12.70	15.24	24.89	31.49
GAU 2-4	1/8	3.17	1/4	6.35	7/16-20	2.28	1/2	12.70	7/16	11.11	12.70	15.24	28.44	35.05
GAU 4-4	1/4	6.35	1/4	6.35	7/16-20	4.31	1/2	12.70	9/16	14.28	15.24	17.78	30.22	37.59
GAU 5-5	5/16	7.93	5/16	7.93	1/2-20	5.84	9/16	14.28	5/8	15.87	16.25	18.54	30.98	38.35
GAU 6-4	3/8	9.52	1/4	6.35	7/16-20	4.31	5/8	15.87	11/16	17.46	16.76	19.30	32.25	39.62
GAU 6-6	3/8	9.52	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	16.76	19.30	32.25	39.62
GAU 8-8	1/2	12.70	1/2	12.70	3/4-16	9.90	13/16	20.64	7/8	22.22	22.86	21.84	35.81	45.97
GAU 12-12	3/4	19.05	3/4	19.05	1-1/16-12	15.49	1-1/8	28.58	1-1/8	28.58	24.38	21.84	43.18	53.34
GAU 16-16	1	25.40	1	25.40	1-5/16-12	21.33	1-3/8	34.92	1-1/2	38.10	31.24	26.41	49.27	61.46

AN Bulkhead Union Mod. GABU



Connects Fractional Tube to AN Flared tube																	
Part No.	Tube O.D. D		AN Tube Flare Size		Straigh Thread T(U)	E Min	Width across flat				A	ℓ	ℓ1	L	L1	Panel Hole Drill Size	Panel Max Thk.
							h		H								
	in	mm	in	mm			in	mm	in	mm							
GABU 4-4	1/4	6.35	1/4	6.35	7/16-20	4.31	5/8	15.87	9/16	14.28	15.24	46.48	26.16	53.84	33.52	11.50	10.16
GABU 6-6	3/8	9.52	3/8	9.52	9/16-18	7.11	3/4	19.05	11/16	17.46	16.76	49.78	29.46	57.15	36.83	14.68	11.17
GABU 8-8	1/2	12.70	1/2	12.70	3/4-16	9.90	5/16	23.81	7/8	22.22	22.86	55.62	31.75	65.78	41.91	19.44	12.70
GABU12-12	3/4	19.05	3/4	19.05	1-1/16-12	15.49	1-3/16	30.16	1-1/8	28.58	24.38	68.83	37.33	78.99	47.49	25.79	16.76
GABU16-16	1	25.40	1	25.40	1-5/16-12	21.33	1-5/8	41.27	1-1/2	38.10	31.24	80.26	45.21	92.45	57.40	33.73	19.05

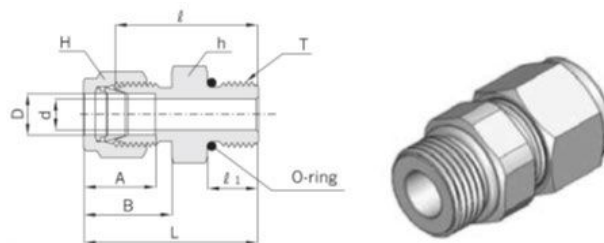
AN Adapter Mod. GAA



Connects Fractional GPI port to Male AN

Part No.	Tube O.D.		AN Tube		Straight Thread T(U)	Width across flat				A	ℓ	ℓ1
	D		Flare Size			h		H				
	in	mm	in	mm		in	mm	in	mm			
GAA 2-2	1/8	3.17	1/8	3.17	5/16-24	3/8	9.52	7/16	11.11	13.71	13.46	18.54
GAA 2-4	1/8	3.17	1/4	6.35	7/16-20	9/16	14.28	7/16	11.11	15.74	13.46	19.05
GAA 4-4	1/4	6.35	1/4	6.35	7/16-20	9/16	14.28	9/16	14.28	15.74	15.74	21.33
GAA 6-6	3/8	9.52	3/8	9.52	9/16-18	11/16	17.46	11/16	17.46	18.28	17.52	24.89
GAA 8-8	1/2	12.70	1/2	12.70	3/4-16	7/8	22.22	7/8	22.22	21.59	23.11	31.75

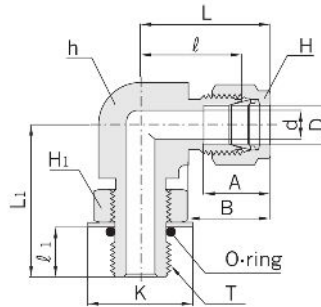
SAE Male Connector Mod. GSCM



Connects Fractional Tube to SAE Straight Thread Boss

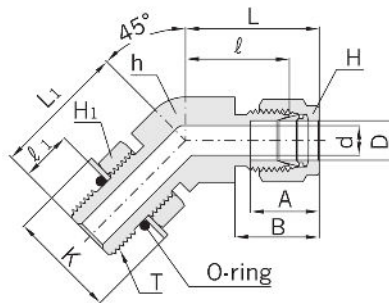
Part No.	Tube O.D.		Straight Thread T(U)	E Min	Width across flat				A	B	ℓ	ℓ1	L	O-Ring Uniform Size No.
	D				h		H							
	in	mm			in	mm	in	mm						
GSMC 2-2U	1/8	3.17	5/16-24	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.26	7.62	29.97	-902
GSMC 2-4U	1/8	3.17	7/16-20	2.28	9/16	14.28	7/16	11.11	12.70	15.24	24.89	9.14	31.49	-904
GSMC 4-4U	1/4	6.35	7/16-20	4.82	9/16	14.28	9/16	14.28	15.24	17.78	26.67	9.14	34.03	-904
GSMC 4-6U	1/4	6.35	9/16-18	4.82	11/16	17.46	9/16	14.28	15.24	17.78	28.19	9.90	35.56	-906
GSMC 4-8U	1/4	6.35	3/4-16	4.82	7/8	22.22	9/16	14.28	15.24	17.78	30.22	11.17	37.59	-908
GSMC 4-10U	1/4	6.35	7/8-14	4.82	1	25.40	9/16	14.28	15.24	17.78	33.27	12.70	40.64	-910
GSMC 5-5U	5/16	7.93	1/2-20	5.84	5/8	15.87	5/8	15.87	16.25	18.54	27.43	9.14	34.79	-905
GSMC 6-4U	3/8	9.52	7/16-20	5.08	5/8	15.87	11/16	17.46	16.76	19.30	28.19	9.14	35.56	-904
GSMC 6-6U	3/8	9.52	9/16-18	7.11	11/16	17.46	11/16	17.46	16.76	19.30	29.71	9.90	37.08	-906
GSMC 6-8U	3/8	9.52	3/4-16	7.11	7/8	22.22	11/16	17.46	16.76	19.30	31.75	11.17	39.11	-908
GSMC 6-10U	3/8	9.52	7/8-14	7.11	1	25.40	11/16	17.46	16.76	19.30	34.79	12.70	42.16	-910
GSMC 8-6U	1/2	12.70	9/16-18	7.11	13/16	20.64	7/8	22.22	22.86	21.84	28.95	9.90	39.11	-906
GSMC 8-8U	1/2	12.70	3/4-16	10.41	7/8	22.22	7/8	22.22	22.86	21.84	31.75	11.17	41.91	-908
GSMC 8-10U	1/2	12.70	7/8-14	10.41	1	25.40	7/8	22.22	22.86	21.84	34.79	12.70	44.95	-910
GSMC 8-12U	1/2	12.70	1-1/16-12	10.41	1-1/4	31.75	7/8	22.22	22.86	21.84	38.86	14.98	49.02	-912
GSMC 10-8U	5/8	15.87	3/4-16	10.66	15/16	23.81	1	25.40	24.38	21.84	31.75	11.17	41.91	-908
GSMC 10-10U	5/8	15.87	7/8-14	12.70	1	25.40	1	25.40	24.38	21.84	35.05	12.70	45.21	-910
GSMC 12-8U	3/4	19.05	3/4-16	10.66	1-1/16	26.98	1-1/8	28.57	24.38	21.84	35.81	11.17	45.97	-908
GSMC 12-12U	3/4	19.05	1-1/16-12	15.74	1-1/4	31.75	1-1/8	28.57	24.38	21.84	38.86	14.98	49.02	-912
GSMC 14-14U	7/8	22.22	1-3/16-12	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	38.86	14.98	49.02	-914
GSMC 16-12U	1	25.40	1-1/16-12	16.76	1-3/8	34.92	1-1/2	38.10	31.24	26.41	41.14	14.98	53.34	-912
GSMC 16-16U	1	25.40	1-5/16-12	22.35	1-1/2	38.10	1-1/2	38.10	31.24	26.41	42.16	14.98	54.35	-916
GSMC 20-20U	1-1/4	31.75	1-5/8-12	27.68	1-7/8	47.63	1-7/8	47.63	41.14	38.86	46.22	14.98	68.32	-920
GSMC 24-24U	1-1/2	38.10	1-7/8-12	34.03	2-1/8	53.98	2-1/4	57.15	50.03	45.21	50.54	14.98	77.72	-924
GSMC 32-32U	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	67.56	62.73	64.26	14.98	101.6	-932

SAE Male Elbow Mod. GSLM



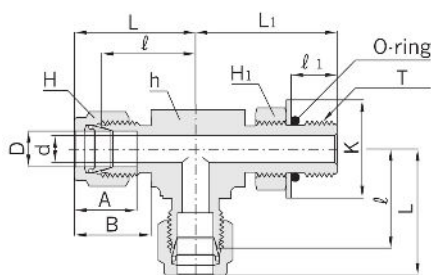
Connects Fractional Tube to SAE StraightThred Boss																		
Part No.	Tube O.D. D		Straigh Thread T(U)	d Min	Width across flat						A	B	ℓ	ℓ1	L	L1	K	O-Ring Uniform Size No.
					h		H		H1									
	in	mm			in	mm	in	mm	in	mm								
GSML4-4U	1/4	6.35	7/16-20	4.82	1/2	12.70	9/16	14.28	9/16	14.28	15.24	17.78	21.08	9.90	28.44	28.44	16.51	-904
GSML4-6U	1/4	6.35	9/16-18	4.82	5/8	15.87	9/16	14.28	11/16	17.46	15.24	17.78	23.11	11.17	30.48	32.25	20.06	-906
GSML5-5U	5/16	7.93	1/2-20	5.84	9/16	14.28	5/8	15.87	5/8	15.87	16.25	18.54	22.86	9.90	30.22	29.46	18.28	-905
GSML6-6U	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	11/16	17.46	16.76	19.30	24.63	11.17	32.00	32.25	20.06	-906
GSML6-8U	3/8	9.52	3/4-16	7.11	13/16	20.64	11/16	17.46	7/8	22.22	16.76	19.30	27.43	12.70	34.79	37.84	25.65	-908
GSML8-8U	½	12.70	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	21.84	27.43	12.70	37.59	37.84	25.65	-908
GSML 10-10U	5/8	15.87	7/8-14	12.70	1	25.40	1	25.40	1	25.40	24.38	21.84	29.46	14.22	39.62	43.43	29.46	-910
GSML12-12U	3/4	19.05	1-1/16-12	15.74	1-1/16	26.98	1-1/8	28.57	1-1/4	31.75	24.38	21.84	31.24	16.76	41.40	48.76	36.57	-912
GSML14-14U	7/8	22.22	1-3/16-12	18.28	1-1/4	31.75	1-1/4	31.75	1-3/8	34.92	25.90	21.84	33.02	16.76	43.18	50.54	40.38	-914
GSML16-16U	1	25.40	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	31.24	26.41	38.35	16.76	50.54	53.59	43.94	-916
GSML 20-20U	1-1/4	31.75	1-5/8-12	27.68	1-11/16	42.76	1-7/8	47.63	1-7/8	47.63	41.14	38.86	45.72	16.76	67.81	58.16	54.86	-920
GSML 24-24U	1-1/2	38.10	1-7/8-12	34.03	2	50.80	2-1/4	57.15	2-1/8	53.98	50.03	45.21	50.80	16.76	77.97	60.45	62.23	-924
GSML 32-32U	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	2-3/4	69.85	67.56	62.73	69.85	16.76	107.18	71.62	80.26	-932

45° SAE Male Mod. GSMBL



Connects Fractional Tube to SAE StraightThred Boss																		
Part No.	Tube O.D.		Straigh Thread T(U)	d Min	Width across flat						A	B	ℓ	ℓ1	L	L1	K	O-Ring Uniform Size No.
	D				h		H		H1									
	in	mm			in	mm	in	mm	in	mm								
GSMBL 4-4U	1/4	6.35	7/16-20	4.82	1/2	12.70	9/16	14.28	9/16	14.28	15.24	17.78	18.28	9.90	25.65	25.65	16.51	-904
GSMBL 6-6U	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	11/16	17.46	16.76	19.30	20.57	11.17	27.94	28.19	20.06	-906
GSMBL 8-8U	1/2	12.70	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	21.84	21.84	12.70	32.00	32.25	25.65	-908
GSMBL12-12U	3/4	19.05	1-1/16-12	15.74	1-1/8	28.58	1-1/8	28.58	1-1/4	31.75	24.38	21.84	29.71	16.76	39.87	47.24	36.57	-912
GSMBL16-16U	1	25.40	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	31.24	26.41	35.30	16.76	47.49	50.54	43.94	-916

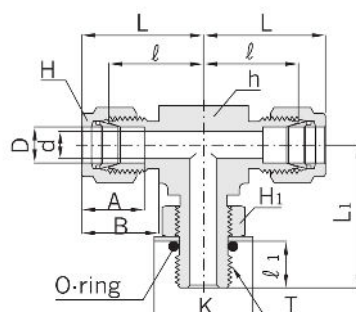
SAE Male Run Tee Mod. GSMRT



Connects Fractional Tube to SAE StraightThred Boss

Connects Fractional Tube to SAE StraightThred Boss																		
Part No.	Tube O.D.		Straigh Thread T(U)	d Min	Width across flat						A	B	ℓ	ℓ1	L	L1	K	O-Ring Uniform Size No.
	D				h		H		H1									
	in	mm			in	mm	in	mm	in	mm								
GSMRT 4-4U	1/4	6.35	7/16-20	4.82	1/2	12.70	9/16	14.28	9/16	14.28	15.24	17.78	21.08	9.90	28.44	28.44	16.51	-904
GSMRT 6-6U	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	11/16	17.46	16.76	19.30	24.63	11.17	32.00	32.25	20.06	-906
GSMRT 8-8U	1/2	12.70	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	21.84	27.43	12.70	37.59	37.84	25.65	-908
GSMRT 12-12U	3/4	19.05	1-1/16-12	15.74	1-1/8	26.98	1-1/8	28.58	1-1/4	31.75	24.38	21.84	31.24	16.76	41.40	48.76	36.57	-912
GSMRT 16-16U	1	25.40	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	31.24	26.41	38.35	16.76	50.54	50.54	43.94	-916
GSMRT 20-20U	1-1/4	31.75	1-5/8-12	27.68	1-11/16	42.86	1-7/8	47.63	1-7/8	47.63	41.14	38.86	45.72	16.76	67.81	58.16	54.86	-920
GSMRT 24-24U	1-1/2	38.10	1-7/8-12	34.03	2	50.80	2-1/4	57.15	2-1/8	53.98	50.03	45.21	50.80	16.76	77.97	60.45	62.23	-924
GSMRT 32-32U	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	2-3/4	69.85	67.56	62.73	69.85	16.76	107.18	71.62	80.26	-932

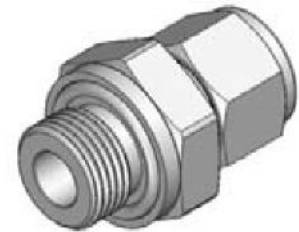
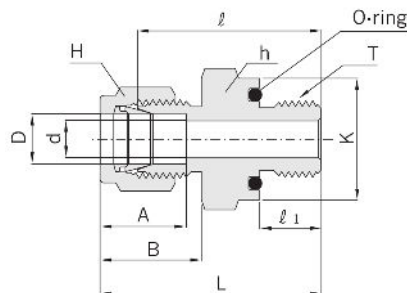
SAE Male Brach Tee Mod. GSMBT



Connects Fractional Tube to SAE StraightThred Boss

Connects Fractional Tube to SAE StraightThred Boss																		
Part No.	Tube O.D. D		Straigh Thread T(U)	d Min	Width across flat						A	B	ℓ	ℓ1	L	L1	K	O-Ring Unform Size No.
					h		H		H1									
	in	mm			in	mm	in	mm	in	mm								
GSMBT 4-4U	1/4	6.35	7/16-20	4.82	1/2	12.70	9/16	14.28	9/16	14.28	15.24	17.78	21.08	9.90	28.44	28.44	16.51	-904
GSMBT 6-6U	3/8	9.52	9/16-18	7.11	5/8	15.87	11/16	17.46	11/16	17.46	16.76	19.30	24.63	11.17	32.00	32.25	20.06	-906
GSMBT 8-8U	1/2	12.70	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	21.84	27.43	12.70	37.59	37.84	25.65	-908
GSMBT 12-12U	3/4	19.05	1-1/16-12	15.74	1-1/16	26.98	1-1/8	28.58	1-1/4	31.75	24.38	21.84	31.24	16.76	41.40	48.76	36.57	-912
GSMBT 16-16U	1	25.40	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.10	1-1/2	38.10	31.24	26.41	38.35	16.76	50.54	53.59	43.94	-916
GSMBT 20-20U	1-1/4	31.75	1-5/8-12	27.68	1-11/16	42.86	1-7/8	47.63	1-7/8	47.63	41.14	38.86	45.72	16.76	67.81	58.16	54.86	-920
GSMBT 24-24U	1-1/2	38.10	1-7/8-12	34.03	2	50.80	2-1/4	57.15	2-1/8	53.98	50.03	45.21	50.80	16.76	77.97	60.45	62.23	-924
GSMBT 32-32U	2	50.80	2-1/2-12	45.97	2-3/4	69.85	3	76.20	2-3/4	69.85	67.56	62.73	69.85	16.76	107.18	71.62	80.26	-932

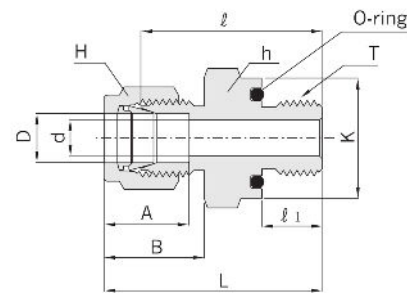
O-Seal Straight Thread Connector Mod. GOSTC



Connects Fractional Tube to Female Straight Thread

Part No.	Tube O.D. D		Straight Thread T(U)	d Min	Width across flat				A	B	ℓ	ℓ ₁	L	K	O-Ring Uniform Size No.
	in	mm			h		H								
					in	mm	in	mm							
GOSTC 2-2U	1/8	3.17	5/16-20	2.28	9/16	14.28	7/16	11.11	12.70	15.24	26.16	8.63	32.76	13.97	-011
GOSTC 3-3U	3/16	4.76	3/8-24	3.04	5/8	15.87	1/2	12.70	13.71	16.00	27.68	9.65	34.29	15.75	-012
GOSTC 4-4U	1/4	6.35	7/16-20	4.82	3/4	19.05	9/16	14.28	15.24	17.78	30.98	10.41	38.35	18.80	-111
GOSTC 5-5U	5/16	7.93	1/2-20	6.35	7/8	22.22	5/8	15.87	16.25	18.54	33.27	11.17	40.64	21.84	-112
GOSTC 6-6U	3/8	9.52	9/16-18	7.11	15/16	23.81	11/16	17.46	16.76	19.30	35.05	11.93	42.41	23.62	-113
GOSTC 8-8U	1/2	12.70	3/4-16	10.41	1-1/8	28.57	7/8	22.22	22.86	21.84	35.81	11.93	45.97	28.45	-116
GOSTC 12-12U	3/4	19.05	1-1/16-12	15.74	1-1/2	38.10	1-1/8	28.58	24.38	21.84	42.16	14.22	52.32	37.85	-215
GOSTC 16-16U	1	25.40	1-5/16-12	22.35	1-3/4	44.45	1-1/2	38.10	31.24	26.41	45.97	14.22	58.16	44.20	-219

O-Seal Pipe Thread Connector Mod. GOPTC

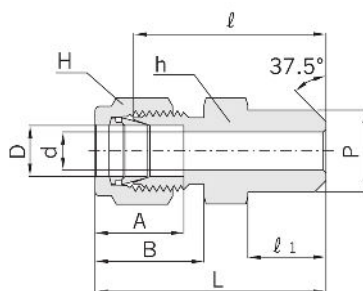


Connects Fractional Tube to Female NPT Thread

Part No.	Tube O.D. D		Straight Thread T*(NPT)	d Min	Width across flat				A	B	ℓ	ℓ ₁	L	K	O-Ring Uniform Size No.
	in	mm			h		H								
					in	mm	in	mm							
GOPTC 2-2N	1/8	3.17	1/8	2.28	3/4	19.05	7/16	11.11	12.70	15.24	26.16	7.11	32.76	18.80	-111
GOPTC 4-2N	1/4	6.35	1/8	4.82	3/4	19.05	9/16	14.28	15.24	17.78	27.68	7.11	35.05	18.80	-111
GOPTC 4-4N	1/4	6.35	1/4	4.82	15/16	23.81	9/16	14.28	15.24	17.78	30.98	9.65	38.35	23.62	-113
GOPTC 6-4N	3/8	9.52	1/4	7.11	15/16	23.81	11/16	17.46	16.76	19.30	32.51	9.65	39.87	23.62	-113
GOPTC 6-6N	3/8	9.52	3/8	7.11	1-1/8	28.58	11/16	17.46	16.76	19.30	34.03	10.41	41.40	28.45	-116
GOPTC 6-8N	3/8	9.52	1/2	7.11	1-5/16	33.33	11/16	17.46	16.76	19.30	39.62	13.46	46.99	33.02	-212
GOPTC 8-8N	1/2	12.70	1/2	10.41	1-5/16	33.33	7/8	22.22	22.86	21.84	39.62	13.46	49.78	33.02	-212

- * ISO Parallel Threads are available upon request

Male Pipe Weld Connector Mod. GMPWC



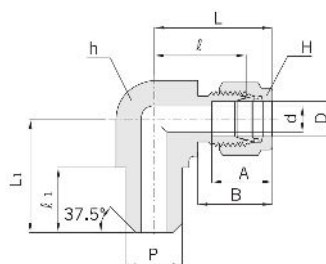
Connects Fractional Tube to Pipe

Part No.	Tube O.D.		Male Pipe Size		d Min	Width across flat				A	B	ℓ	ℓ1	L
	D	P	h			H								
			in	mm		in	mm							
GMPWC 2-2P	1/8	3.17	1/8	10.30	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.87	9.65	31.24
GMPWC 3-2P	3/16	4.76	1/8	10.30	3.04	7/16	11.11	1/2	12.70	13.71	16.00	24.63	9.65	31.24
GMPWC 4-2P	1/4	6.35	1/8	10.30	4.82	1/2	12.70	9/16	14.28	15.24	17.78	25.40	9.65	32.76
GMPWC 4-4P	1/4	6.35	1/4	13.70	4.82	9/16	14.28	9/16	14.28	15.24	17.78	30.48	14.22	37.84
GMPWC 5-2P	5/16	7.93	1/8	10.30	5.08	9/16	14.28	5/8	15.87	16.25	18.54	26.67	9.65	34.03
GMPWC 5-4P	5/16	7.93	1/4	13.70	6.35	9/16	14.28	5/8	15.87	16.25	18.54	31.24	14.22	38.60
GMPWC 6-4P	3/8	9.52	1/4	13.70	7.11	5/8	15.87	11/16	17.46	16.76	19.30	32.51	14.22	39.87
GMPWC 6-6P	3/8	9.52	3/8	17.10	7.11	11/16	17.46	11/16	17.46	16.76	19.30	32.51	14.22	39.87
GMPWC 6-8P	3/8	9.52	1/2	21.30	7.11	7/8	22.22	11/16	17.46	16.76	19.30	38.86	19.05	43.23
GMPWC 6-12P	3/8	9.52	3/4	26.67	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	40.38	19.05	47.75
GMPWC 8-6P	1/2	12.70	3/8	17.10	10.41	13/16	20.63	7/8	22.22	22.86	21.84	33.27	14.22	43.43
GMPWC 8-8P	1/2	12.70	1/2	21.30	10.41	7/8	22.22	7/8	22.22	22.86	21.84	38.86	19.05	49.02
GMPWC 8-12P	1/2	12.70	3/4	26.67	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	40.38	19.05	50.54
GMPWC 10-8P	5/8	15.87	1/2	21.30	12.70	15/16	23.81	1	25.40	24.38	21.84	38.86	19.05	49.02
GMPWC 12-12P	3/4	19.05	3/4	26.67	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	40.38	19.05	50.54
GMPWC 16-16P	1	25.40	1	33.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	50.03	23.87	62.23
GMPWC 20-20P	1-1/4	31.75	1-1/4	42.16	27.68	1-3/4	44.45	1-7/8	47.62	41.14	38.86	55.11	23.87	77.21
GMPWC 24-24P	1-1/2	38.10	1-1/2	48.26	34.03	2-1/8	53.97	2-1/4	57.15	50.03	45.21	61.72	26.16	88.90
GMPWC 32-32P	2	50.80	2	60.32	45.97	2-3/4	69.85	3	76.20	67.56	62.73	76.20	26.92	113.53

Connects Metric Tube to Pipe

Part No.	Tube O.D. D	Male Pipe Size P		d Min	Width across flat		A	B	ℓ	ℓ1	L
		Nom.	O.D.		h	H					
GMPWC 3M-2P	3	1/8	10.30	2.4	12.0	12	12.9	15.3	23.9	9.7	29.7
GMPWC 4M-2P	4	1/8	10.30	2.4	12.0	12	13.7	16.1	24.6	9.7	30.7
GMPWC 6M-2P	6	1/8	10.30	4.8	14.0	14	15.3	17.7	25.4	9.7	32.8
GMPWC 6M-4P	6	1/4	13.70	4.8	14.0	14	15.3	17.7	30.2	14.2	37.6
GMPWC 8M-2P	8	1/8	10.30	5.1	14.0	16	16.2	18.6	26.7	9.7	34.2
GMPWC 8M-4P	8	1/4	13.70	6.3	14.0	16	16.2	18.6	31.2	14.2	38.7
GMPWC 8M-8P	8	1/2	21.30	6.3	22.0	16	16.2	18.6	38.1	19.1	44.8
GMPWC 10M-4P	10	1/4	13.70	7.1	17.0	19	17.2	19.5	33.3	14.2	40.9
GMPWC 10M-6P	10	3/8	17.10	7.9	19.0	19	17.2	19.5	33.3	14.2	40.1
GMPWC 10M-8P	10	1/2	21.30	7.9	22.0	19	17.2	19.5	38.1	19.1	45.7
GMPWC 12M-4P	12	1/4	13.70	7.1	22.0	22	22.8	22.0	33.3	14.2	43.4
GMPWC 12M-6P	12	3/8	17.10	9.5	22.0	22	22.8	22.0	33.3	14.2	43.4
GMPWC 12M-8P	12	1/2	21.30	9.5	22.0	22	22.8	22.0	38.1	19.1	48.2
GMPWC 14M-6P	14	3/8	17.10	10.3	24.0	25	24.4	22.0	34.0	14.2	44.1
GMPWC 15M-8P	15	1/2	21.30	11.9	24.0	25	24.4	22.0	38.9	19.0	49.0
GMPWC 16M-8P	16	1/2	21.30	12.7	24.0	25	24.4	22.0	38.9	19.0	49.0
GMPWC 18M-8P	18	1/2	21.30	13.5	27.0	30	24.4	22.0	40.4	19.0	50.5
GMPWC 32M-20P	32	1-1/4	42.20	28.6	46.0	50	42.0	41.6	56.6	23.9	79.6
GMPWC 38M-24P	38	1-1/2	48.30	33.7	55.0	60	49.4	47.9	64.0	26.2	91.6

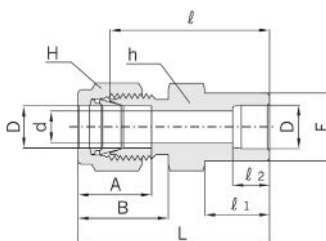
Male Pipe Weld Elbow Mod. GMPWL



Connects Fractional Tube to Pipe

Part No.	Tube O.D.		Male Pipe Size		d Min	Width across flat				A	B	ℓ	ℓ ₁	L	L ₁
	D		P			h									
						H									
	in	mm	Nom.	O.D.		in	mm	in	mm						
GMPWL 2-2P	1/8	3.17	1/8	10.29	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	9.65	26.92	18.79
GMPWL 4-4P	1/4	6.35	1/4	13.72	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	14.22	26.92	23.36
GMPWL 6-4P	3/8	9.52	1/4	13.72	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	14.22	30.48	25.40
GMPWL 8-8P	1/2	12.70	1/2	21.34	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	19.05	36.06	33.02
GMPWL12-12P	3/4	19.05	3/4	26.67	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	19.05	39.87	36.83

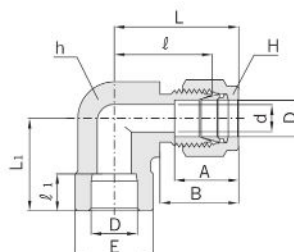
Tube Socket Weld Connector Mod. GTSWC



Connects Fractional Tube

Part No.	Tube O.D.		d Min	E	Width across flat				A	B	ℓ	ℓ ₁	ℓ ₂	L
	D				h		H							
					in	mm	in	mm						
	in	mm			in	mm	in	mm						
GTSWC 2-2	1/8	3.17	2.28	7.87	7/16	11.11	7/16	11.11	12.70	15.24	22.35	8.63	6.35	28.95
GTSWC 4-4	1/4	6.35	4.82	11.17	1/2	12.70	9/16	14.28	15.24	17.78	26.16	10.41	7.87	33.52
GTSWC 6-6	3/8	9.52	7.11	15.74	5/8	15.87	11/16	17.46	16.76	19.30	30.22	11.93	9.65	37.59
GTSWC 8-8	1/2	12.70	10.41	19.05	13/16	20.64	7/8	22.22	22.86	21.84	30.98	11.93	12.70	41.14
GTSWC 12-12	3/4	19.05	15.74	26.67	1-1/16	26.98	1-1/8	28.58	24.38	21.84	33.27	11.93	14.22	43.43
GTSWC 16-16	1	25.40	22.35	33.27	1-3/8	34.92	1-1/2	38.10	31.24	26.41	40.38	14.22	19.05	52.57

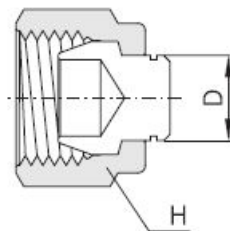
Tube Socket Weld Elbow Mod. GTSWL



Connects Fractional Tube

Part No.	Tube O.D.		d Min	E	Width across flat				A	B	ℓ	ℓ ₁	L	L ₁
	D				h		H							
					in	mm	in	mm						
	in	mm			in	mm	in	mm						
GTSWL 4-4	1/4	6.35	4.82	12.70	1/2	12.70	9/16	14.28	15.24	17.78	19.55	7.87	26.92	19.55
GTSWL 6-6	3/8	9.52	7.11	15.74	5/8	15.87	11/16	17.46	16.76	19.30	23.11	9.65	30.48	23.11
GTSWL 8-8	1/2	12.70	10.41	20.57	13/16	20.64	7/8	22.22	22.86	21.84	25.90	12.70	36.06	25.90
GTSWL 12-12	3/4	19.05	15.74	26.92	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	14.22	39.87	29.71
GTSWL 16-16	1	25.40	22.35	35.05	1-3/8	34.93	1-1/2	38.10	31.24	26.41	36.83	19.05	49.02	36.83

Plug Mod. GP



Part No.	Fractional		Width across flat	
	Tube O.D.		h	
	D		H	
	in	mm	in	mm
GP-1	1/16	1.59	5/16	7.93
GP-2	1/8	3.17	7/16	11.11
GP-3	3/16	4.76	1/2	12.70
GP-4	1/4	6.35	9/16	14.28
GP-5	5/16	7.93	5/8	15.87
GP-6	3/8	9.52	11/16	17.46
GP-8	1/2	12.70	7/8	22.22
GP-10	5/8	15.87	1	25.40
GP-12	3/4	19.05	1-1/8	28.58
GP-14	7/8	22.22	1-1/4	31.75
GP-16	1	25.40	1-1/2	38.10
GP-20	1-1/4	31.75	1-7/8	47.63
GP-24	1-1/2	38.10	2-1/4	57.15
GP-32	2	50.80	3	76.20

Part No.	Metric		Width across flat	
	Tube O.D.		H	
	D		H	
	mm		mm	
GP-2M	2		12	
GP-3M	3		12	
GP-4M	4		12	
GP-6M	6		14	
GP-8M	8		16	
GP-10M	10		19	
GP-12M	12		22	
GP-15M	15		25	
GP-16M	16		25	
GP-18M	18		30	
GP-20M	20		32	
GP-22M	22		32	
GP-25M	25		38	
GP-28M	28		46	
GP-32M	32		50	
GP-38M	38		60	



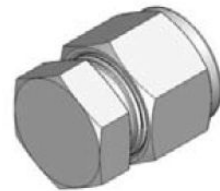
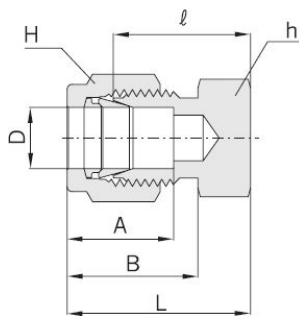
Installation Instructions

- 1) Remove the nut and ferrules from the body
- 2) With a wrench, 1/4 turn from the finger-tight position, (1/8 turn for 1/8", 3/16" and 2mm, 3mm and 4mm)

Note

Do not tighten 1-1/4 turns as this has machined ferrule not the standard ferrules.
Tighten 1/8 turn for 1/16, 1/8, and 3/16 inch and 2, 3, and 4 mm size plug, 1/2 turn turnover 1 and 25mm size plug.

Cap Mod. GC

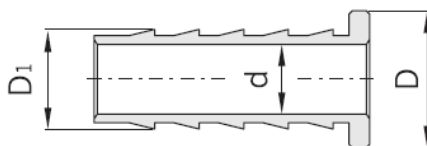


1. Inert the tube end into the Cap
2. With a wrench, 1-1/4 turns from the finger-tight position,
(3/4 turn for 1/8", 3/16" 3mm and 4mm)

Cap end of Franctional Tube										
Part No.	Tube O.D. D		Width across flat				A	B	ℓ	L
			h		H					
	in	mm	in	mm	in	mm				
GC-1	1/16	1.58	5/16	7.93	5/16	7.93	8.63	10.92	11.20	14.18
GC-2	1/8	3.17	7/16	11.11	7/16	11.11	12.70	15.24	13.46	20.06
GC-3	3/16	4.76	7/16	11.11	1/2	12.70	13.71	16.00	14.73	21.33
GC-4	1/4	6.35	1/2	12.70	9/16	14.28	15.24	17.78	16.00	23.26
GC-5	5/16	7.93	9/16	14.28	5/8	15.87	16.25	18.54	17.01	24.38
GC-6	3/8	9.52	5/8	15.87	11/16	17.46	16.76	19.30	18.28	25.65
GC-8	1/2	12.70	13/16	20.63	7/8	22.22	22.86	21.84	19.05	29.21
GC-10	5/8	15.87	15/16	23.81	1	25.40	24.38	21.84	19.81	29.97
GC-12	3/4	19.05	1-1/16	26.98	1-1/8	28.57	24.38	21.84	21.33	31.49
GC-14	7/8	22.22	1-3/16	30.16	1-1/4	31.75	25.90	21.84	23.87	34.03
GC-16	1	25.40	1-3/8	34.92	1-1/2	38.10	31.24	26.41	26.16	38.35
GC-20	1-1/4	31.75	1-3/4	44.45	1-7/8	47.63	41.14	38.86	31.24	53.34
GC-24	1-1/2	38.10	2-1/8	53.98	2-1/4	57.15	50.15	45.21	37.33	64.51
GC-32	2	50.80	2-3/4	69.85	3	76.20	67.56	62.73	49.27	86.61

Cap end of Metric Tube							
Part No.	Tube O.D. D	Width across flat		A	B	ℓ	L
		h	H				
GC-2M	2	12	12	12.9	15.3	13.5	20.1
GC-3M	3	12	12	12.9	15.3	13.5	20.1
GC-4M	4	12	12	13.7	16.1	14.7	21.3
GC-6M	6	14	14	15.3	17.7	15.7	23.1
GC-8M	8	15	16	16.2	18.6	17.0	24.5
GC-10M	10	18	19	17.2	19.5	19.0	26.6
GC-12M	12	22	22	22.8	22.0	19.0	29.1
GC-15M	15	24	25	24.4	22.0	19.8	29.9
GC-16M	16	24	25	24.4	22.0	19.8	29.9
GC-18M	18	27	30	24.4	22.0	21.3	31.4
GC-20M	20	30	32	26.0	22.0	23.9	34.0
GC-22M	22	30	32	26.0	22.0	23.9	34.0
GC-25M	25	35	38	31.3	26.5	26.2	38.5
GC-28M	28	41	46	36.6	36.6	27.7	48.5
GC-32M	32	46	50	42.0	41.6	32.8	55.8
GC-38M	38	55	60	49.4	47.9	37.8	65.4

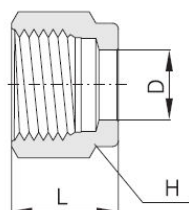
Tube Insert Mod. GI



Fractional						
Part No.	Tube O.D.		Tube I.D.		Bore I.D.	
	D		D1		d	
	in	mm	in	mm	in	mm
GI-0302	3/16	4.76	1/8	3.17	0.09	1.70
GI-0402	1/4	6.35	1/8	3.17	0.09	1.70
GI-0403	1/4	6.35	3/16	4.76	0.14	3.56
GI-0502	5/16	7.93	1/8	3.17	0.09	2.29
GI-0503	5/16	7.93	3/16	4.76	0.12	3.50
GI-0504	5/16	7.93	1/4	6.35	0.19	4.83
GI-0603	3/8	9.52	3/16	4.76	0.12	3.05
GI-0604	3/8	9.52	1/4	6.35	0.19	4.83
GI-0804	1/2	12.70	1/4	6.35	0.19	4.83
GI-0806	1/2	12.70	3/8	9.52	0.31	7.87
GI-1006	5/8	15.87	3/8	9.52	0.31	7.87
GI-1008	5/8	15.87	1/2	12.7	0.44	11.00
GI-1208	3/4	19.05	1/2	12.7	0.44	11.00
GI-1210	3/4	19.05	5/8	15.87	0.56	14.22
GI-1612	1	25.40	3/4	19.05	0.69	17.53

Metric			
Part No.	Tube O.D.	Tube I.D.	Bore I.D.
	D	D1	d
GI-M06M04	6	4	2.4
GI-M08M06	8	6	4.8
GI-M10M08	10	8	6.4
GI-M12M08	12	8	6.4
GI-M12M10	12	10	8.3

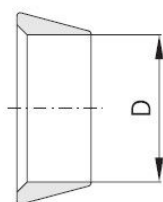
Nut Mod. GN



Fractional					
Part No.	Tube O.D. D		Width across flat H		L
	in	mm	in	mm	
GN-01	1/16	1.58	5/16	7.94	7.90
GN-02	1/8	3.17	7/16	11.11	11.9
GN-03	3/16	4.76	1/2	12.7	11.9
GN-04	1/4	6.35	9/16	14.28	12.7
GN-05	5/16	7.93	5/8	15.87	13.5
GN-06	3/8	9.52	11/16	17.46	14.2
GN-08	1/2	12.70	7/8	22.22	17.5
GN-10	5/8	15.87	1	25.4	17.5
GN-12	3/4	19.05	1-1/8	28.57	17.5
GN-14	7/8	22.22	1-1/4	31.75	17.5
GN-16	1	25.40	1-1/2	38.1	20.6
GN-20	1-1/4	31.75	1-7/8	47.63	31.7
GN-24	1-1/2	38.10	2-1/4	57.15	38.1
GN-32	2	50.80	3	76.2	52.3

Metric			
Part No.	Tube O.D.	Width across flat	L
	D	H	
GN-M02	2	12	11.9
GN-M03	3	12	11.9
GN-M04	4	12	11.9
GN-M06	6	14	12.7
GN-M08	8	16	13.5
GN-M10	10	19	15.1
GN-M12	12	22	17.4
GN-M15	15	25	17.4
GN-M16	16	25	17.4
GN-M18	18	30	17.4
GN-M20	20	32	17.4
GN-M22	22	32	17.4
GN-M25	25	38	20.6
GN-M28	28	46	30.6
GN-M32	32	50	34.4
GN-M38	38	60	40.6
GN-M42	42	65	44.7

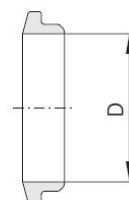
Front Ferrules Mod. GFF



Fractional		
Part No.	Tube O.D. D	
	inch	mm
GFF-01	1/16	1.58
GFF-02	1/8	3.17
GFF-03	3/16	4.76
GFF-04	1/4	6.35
GFF-05	5/16	7.93
GFF-06	3/8	9.52
GFF-08	1/2	12.70
GFF-10	5/8	15.87
GFF-12	3/4	19.05
GFF-14	7/8	22.22
GFF-16	1	25.40
GFF-20	1-1/4	31.75
GFF-24	1-1/2	38.10
GFF-32	2	50.80

Metric	
Part No.	Tube O.D. D
GFF-M02	2
GFF-M03	3
GFF-M04	4
GFF-M06	6
GFF-M08	8
GFF-M10	10
GFF-M12	12
GFF-M15	15
GFF-M16	16
GFF-M18	18
GFF-M20	20
GFF-M22	22
GFF-M25	25
GFF-M28	28
GFF-M32	32
GFF-M38	38
GFF-M42	42

Back Ferrules Mod. GBF



Fractional		
Part No.	Tube O.D. D	
	inch	mm
GBF-01	1/16	1.58
GBF-02	1/8	3.17
GBF-03	3/16	4.76
GBF-04	1/4	6.35
GBF-05	5/16	7.93
GBF-06	3/8	9.52
GBF-08	1/2	12.70
GBF-10	5/8	15.87
GBF-12	3/4	19.05
GBF-14	7/8	22.22
GBF-16	1	25.40
GBF-20	1-1/4	31.75
GBF-24	1-1/2	38.10
GBF-32	2	50.80

Metric	
Part No.	Tube O.D. D
GBF-M02	2
GBF-M03	3
GBF-M04	4
GBF-M06	6
GBF-M08	8
GBF-M10	10
GBF-M12	12
GBF-M15	15
GBF-M16	16
GBF-M18	18
GBF-M20	20
GBF-M22	22
GBF-M25	25
GBF-M28	28
GBF-M32	32
GBF-M38	38
GBF-M42	42

Ferrules Set Mod. GFS

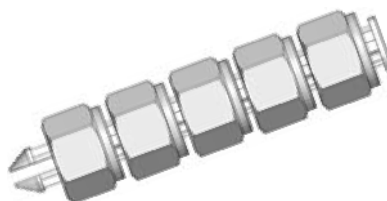


Ferrules can be ordered as a set with an arbor.
Each arbor holds 10 ferrule sets.

Fractional		
Part No.	Tube O.D.	
	inch	mm
GFS-01	1/16	1.58
GFS-02	1/8	3.17
GFS-03	3/16	4.76
GFS-04	1/4	6.35
GFS-05	5/16	7.93
GFS-06	3/8	9.52
GFS-08	1/2	12.70
GFS-10	5/8	15.87
GFS-12	3/4	19.05
GFS-14	7/8	22.22
GFS-16	1	25.40

Metric	
Part No.	Tube O.D. mm
GFS-M02	2
GFS-M03	3
GFS-M04	4
GFS-M06	6
GFS-M08	8
GFS-M10	10
GFS-M12	12
GFS-M15	15
GFS-M16	16
GFS-M18	18
GFS-M20	20
GFS-M22	22
GFS-M25	25

Ferrules & Nut Set Mod. GFNS



Ferrules and nut can be ordered as a set with an arbor.
Each arbor holds 5 ferrule and nut sets.

Fractional		
Part No.	Tube O.D.	
	inch	mm
GFNS-01	1/16	1.58
GFNS-02	1/8	3.17
GFNS-03	3/16	4.76
GFNS-04	1/4	6.35
GFNS-05	5/16	7.93
GFNS-06	3/8	9.52
GFNS-08	1/2	12.70
GFNS-10	5/8	15.87
GFNS-12	3/4	19.05
GFNS-14	7/8	22.22
GFNS-16	1	25.40

Metric	
Part No.	Tube O.D. mm
GFNS-M02	2
GFNS-M03	3
GFNS-M04	4
GFNS-M06	6
GFNS-M08	8
GFNS-M10	10
GFNS-M12	12
GFNS-M15	15
GFNS-M16	16
GFNS-M18	18
GFNS-M20	20
GFNS-M22	22
GFNS-M25	25