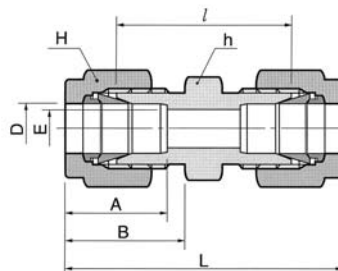
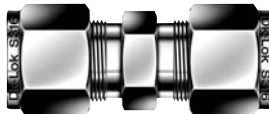


Union DU



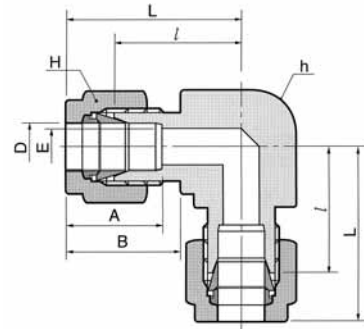
Connects fractional tube

Part No.	Tube O.D.		E Min.	Width across flat				A	B	l	L
	D			h		H					
	in	mm		in	mm	in	mm				
DU-1	1/16	1.59	1.27	5/16	7.93	5/16	7.93	8.63	10.92	17.50	25.15
DU-2	1/8	3.17	2.28	7/16	11.11	7/16	11.11	12.70	15.24	22.35	35.56
DU-3	3/16	4.76	3.04	7/16	11.11	1/2	12.70	13.71	16.00	24.13	37.33
DU-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	26.16	40.89
DU-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	28.19	42.92
DU-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	30.22	44.95
DU-8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	30.98	51.30
DU-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	31.75	52.07
DU-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	33.27	53.59
DU-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
DU-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	40.38	64.77
DU-20	1-1/4	31.75	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	48.00	92.20
DU-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
DU-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	E Min.	Width across flat		A	B	l	L
			h	H				
DU-2M	2	1.7	12	12	12.9	15.3	22.4	35.6
DU-3M	3	2.4	12	12	12.9	15.3	22.1	35.3
DU-4M	4	2.4	12	12	13.7	16.1	24.1	37.3
DU-6M	6	4.8	14	14	15.3	17.7	26.2	41.0
DU-8M	8	6.4	15	16	16.2	18.6	28.2	43.2
DU-10M	10	7.9	18	19	17.2	19.5	31.0	46.2
DU-12M	12	9.5	22	22	22.8	22.0	31.0	51.2
DU-15M	15	11.9	24	25	24.4	22.0	31.8	52.0
DU-16M	16	12.7	24	25	24.4	22.0	31.8	52.0
DU-18M	18	15.1	27	30	24.4	22.0	33.3	53.5
DU-20M	20	15.9	30	32	26.0	22.0	34.8	55.0
DU-22M	22	18.3	30	32	26.0	22.0	34.8	55.0
DU-25M	25	21.8	35	38	31.3	26.5	40.4	65.0
DU-28M	28	21.8	41	46	36.6	36.6	43.4	85.0
DU-32M	32	28.6	46	50	42.0	41.6	51.3	97.3
DU-38M	38	33.7	55	60	49.4	47.9	58.4	113.6

Union Elbow DL



Connects fractional tube

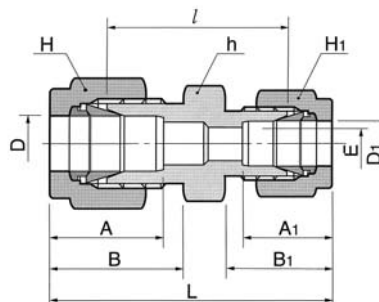
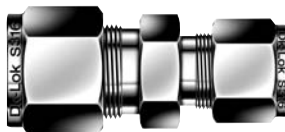
Part No.	Tube O.D. D		E Min.	Width across flat				A	B	l	L
	in	mm		h	mm	H	mm				
DL-1	1/16	1.59	1.27	3/8	9.52	5/16	7.93	8.63	10.92	14.00	17.88
DL-2	1/8	3.17	2.28	3/8	9.52	7/16	11.11	12.70	15.24	15.74	22.35
DL-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.38
DL-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
DL-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
DL-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
DL-8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06
DL-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	28.70	38.80
DL-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87
DL-14	7/8	22.22	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	34.54	44.70
DL-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02
DL-20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54
DL-24	1-1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
DL-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				
DL - 2M	2	1.7	9.5	12	12.9	15.3	15.7	22.3
DL - 3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
DL - 4M	4	2.4	12.7	12	13.7	16.4	18.8	25.4
DL - 6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
DL - 8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8
DL - 10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
DL - 12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
DL - 15M	15	11.9	25.4	25	24.4	22.0	28.7	38.8
DL - 16M	16	12.7	25.4	25	24.4	22.0	28.7	38.8
DL - 18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
DL - 20M	20	15.9	34.92	32	26.0	22.0	32.5	42.6
DL - 22M	22	18.3	34.92	32	26.0	22.0	32.5	42.6
DL - 25M	25	21.8	34.92	38	31.3	26.5	36.8	49.1
DL - 28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0
DL - 32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3
DL - 38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0

A, B & L are approximate figures in finger-tight.

Reducing Union DUR



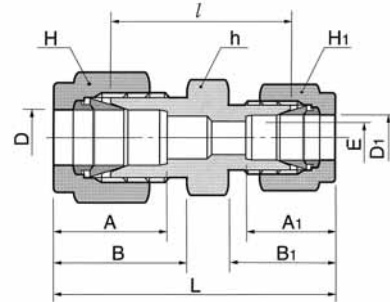
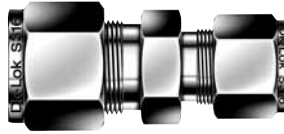
Connects fractional tube

Part No.	Tube O.D.				E	Width across flat						A	A ₁	B	B ₁	l	L
	D		D ₁			h		H		H ₁							
	in	mm	in	mm		Min.	in	mm	in	mm	in						
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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
DUR 12-4	3/4	19.05	1/4	6.35	4.82	1-1/16	26.98	1-1/8	28.57	9/16	14.48	24.38	15.24	21.84	17.78	31.75	49.27
DUR 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
DUR 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
DUR 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
DUR 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
DUR 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

A, B & L are approximate figures in finger-tight.

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Reducing Union DUR



Connects metric tube

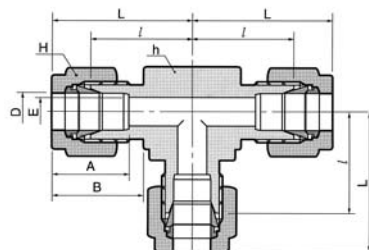
Part No.	Tube O.D.		E Min.	Width across flat			A	A ₁	B	B ₁	l	L
	D	D ₁		h	H	H ₁						
DUR 3M-2M	3	2	1.7	12	12	12	12.9	12.9	15.3	15.3	22.1	35.3
DUR 6M-2M	6	2	1.7	14	14	12	15.3	12.9	17.7	15.3	24.6	38.6
DUR 6M-3M	6	3	2.4	14	14	12	15.3	12.9	17.7	15.3	24.6	38.6
DUR 6M-4M	6	4	2.4	14	14	12	15.3	13.7	17.7	16.1	25.4	39.4
DUR 8M-6M	8	6	4.8	15	16	14	16.2	15.3	18.6	17.7	27.4	42.3
DUR 10M-6M	10	6	4.8	18	19	14	17.2	15.3	19.5	17.7	29.5	44.5
DUR 10M-8M	10	8	6.4	18	19	16	17.2	16.2	19.5	18.6	30.0	45.1
DUR 12M-6M	12	6	4.8	22	22	14	22.8	15.3	22.0	17.7	29.5	47.0
DUR 12M-8M	12	8	6.4	22	22	16	22.8	16.2	22.0	18.6	30.2	47.8
DUR 12M-10M	12	10	7.9	22	22	19	22.8	17.2	22.0	19.5	31.0	48.7
DUR 16M-10M	16	10	7.9	24	25	19	24.4	17.2	22.0	19.5	31.8	49.5
DUR 16M-12M	16	12	9.5	24	25	22	24.4	22.8	22.0	22.0	31.8	52.0
DUR 18M-12M	18	12	9.5	27	30	22	24.4	22.8	22.0	22.0	33.3	53.5
DUR 25M-18M	25	18	15.1	35	38	30	31.3	24.4	26.5	22.0	38.6	61.0
DUR 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 fractional tube

Part No.	Tube O.D.			E Min.	Width across flat			A	A ₁	B	B ₁	l	L
	D	D ₁ in	mm		h	H	H ₁						
DUR 3M-2	3	1/8	3.17	2.4	12	12	11.1	12.9	12.8	15.3	15.2	22.1	35.2
DUR 4M-2	4	1/8	3.17	2.4	12	12	11.1	13.7	12.8	16.1	15.2	23.4	36.5
DUR 4M-4	4	1/4	6.35	2.4	14	12	14.3	13.7	15.3	16.1	17.7	25.4	39.4
DUR 6M-2	6	1/8	3.17	2.4	14	14	11.1	15.3	12.8	17.7	15.2	24.6	38.5
DUR 6M-4	6	1/4	6.35	4.8	14	14	14.3	15.3	15.8	17.7	17.7	26.2	41.0
DUR 6M-5	6	5/16	7.93	4.8	14	14	15.9	15.3	16.2	17.7	18.6	27.4	42.3
DUR 8M-4	8	1/4	6.35	4.8	15	16	14.3	16.2	15.3	18.6	17.7	27.4	42.3
DUR 10M-2	10	1/8	3.17	2.4	18	19	11.1	17.2	12.8	19.5	15.2	27.7	41.8
DUR 10M-4	10	1/4	6.35	4.8	18	19	14.3	17.2	15.3	19.5	17.7	29.5	44.5
DUR 10M-5	10	5/16	7.93	6.4	18	19	15.9	17.2	16.2	19.5	18.6	30.3	45.1
DUR 10M-6	10	3/8	9.52	7.1	18	19	17.5	17.2	16.9	19.5	18.6	31.0	45.9
DUR 12M-5	12	5/16	7.93	6.4	22	22	15.9	22.8	16.2	22.0	18.6	30.2	47.8
DUR 12M-6	12	3/8	9.52	7.1	22	22	17.5	22.8	16.9	22.0	19.2	31.0	48.4
DUR 12M-8	12	1/2	12.70	9.5	22	22	22.2	22.8	22.8	22.0	22.0	31.0	51.2
DUR 15M-8	15	1/2	12.70	10.3	24	25	22.2	24.4	22.8	22.0	22.0	31.8	52.0
DUR 16M-10	16	5/8	15.87	12.7	24	25	25.4	24.4	24.4	22.0	22.0	31.8	52.0
DUR 18M-12	18	3/4	19.05	15.1	27	30	28.6	24.4	24.4	22.0	22.0	33.3	53.5
DUR 20M-12	20	3/4	19.05	15.9	30	32	28.6	26.0	24.4	22.0	22.0	34.8	54.9
DUR 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
DUR 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

A, B & L are approximate figures in finger-tight.

Union Tee DT



Connects fractional tube

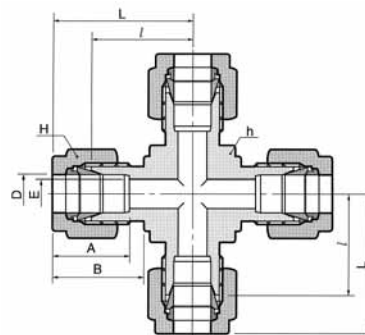
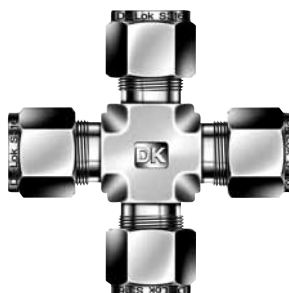
Part No.	Tube O.D.		E Min.	Width across flat				A	B	l	L
	D			h		H					
	in	mm		in	mm	in	mm				
DT-1	1/16	1.59	1.27	3/8	9.52	5/16	7.93	8.63	10.92	14.00	17.88
DT-2	1/8	3.17	2.28	3/8	9.52	7/16	11.11	12.70	15.24	15.74	22.35
DT-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.38
DT-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
DT-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
DT-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
DT-8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06
DT-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	28.70	38.80
DT-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87
DT-14	7/8	22.22	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	34.54	44.70
DT-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02
DT-20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54
DT-24	1-1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
DT-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				
DT - 2M	2	1.7	9.5	12	12.9	15.3	15.7	22.3
DT - 3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
DT - 4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4
DT - 6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
DT - 8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8
DT - 10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
DT - 12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
DT - 15M	15	11.9	25.4	25	24.4	22.0	28.7	38.8
DT - 16M	16	12.7	25.4	25	24.4	22.0	28.7	38.8
DT - 18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
DT - 20M	20	15.9	34.92	32	26.0	22.0	32.5	42.6
DT - 22M	22	18.3	34.92	32	26.0	22.0	32.5	42.6
DT - 25M	25	21.8	34.92	38	31.3	26.5	36.8	49.1
DT - 28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0
DT - 32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3
DT - 38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0

Union Cross DX

Note :
Cross may be made from
plate stock



Connects fractional tube

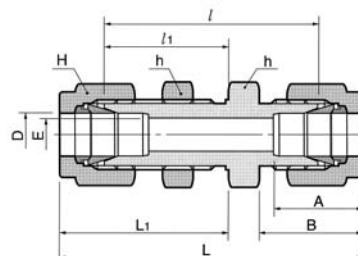
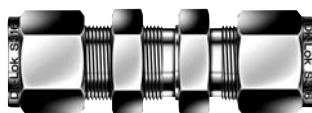
Part No.	Tube O.D. D		E Min.	Width across flat				A	B	l	L
	in	mm		h	mm	H	mm				
DX-1	1/16	1.59	1.27	3/8	9.52	5/16	7.93	8.63	10.92	14.00	17.88
DX-2	1/8	3.17	2.28	3/8	9.52	7/16	11.11	12.70	15.24	15.74	22.35
DX-3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.38
DX-4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
DX-5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
DX-6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
DX-8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06
DX-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	28.70	38.80
DX-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87
DX-14	7/8	22.22	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	34.54	44.70
DX-16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02
DX-20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54
DX-24	1-1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
DX-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				
DX-3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
DX-4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4
DX-6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
DX-8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8
DX-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
DX-12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
DX-15M	15	11.9	25.4	25	24.4	22.0	28.7	38.8
DX-16M	16	12.7	25.4	25	24.4	22.0	28.7	38.8
DX-18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
DX-20M	20	15.9	34.92	32	26.0	22.0	32.5	42.6
DX-22M	22	18.3	34.92	32	26.0	22.0	32.5	42.6
DX-25M	25	21.8	34.92	38	31.3	26.5	36.8	49.1
DX-28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0
DX-32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3
DX-38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0

A, B & L are approximate figures in finger-tight.

Bulkhead Union DUB



Connects fractional tube

Part No.	Tube O.D. D		E Min.	Width across flat				A	B	l	l1	L	L1	Panel Hole Drill size	Panel Max Thickness
	in	mm		h	mm	H	mm								
DUB-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
DUB-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
DUB-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
DUB-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
DUB-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
DUB-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
DUB-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
DUB-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
DUB-12	3/4	19.05	15.74	1-3/16	30.16	1-1/8	28.58	24.38	21.84	58.67	37.33	78.99	47.49	25.79	16.76
DUB-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
DUB-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
DUB-20	1-1/4	31.75	27.68	1-7/8	47.63	1-7/8	47.63	41.14	38.86	78.99	47.75	123.19	69.85	41.67	19.05
DUB-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
DUB-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	57.94	19.05

Connects metric tube

Part No.	Tube O.D. D		E Min.	Width across flat		A	B	l	l1	L	L1	Panel Hole Drill size	Panel Max Thickness
	mm	mm		h	H								
DUB - 3M	3	3	2.4	14	12	12.9	15.3	38.1	24.6	51.3	31.2	8.3	12.7
DUB - 4M	4	4	2.4	14	12	13.7	16.1	40.4	25.4	53.6	32.0	9.9	12.7
DUB - 6M	6	6	4.8	16	14	15.3	17.7	42.9	26.2	57.7	33.6	11.5	10.2
DUB - 8M	8	8	6.4	18	16	16.2	18.6	46.0	28.6	61.0	36.1	13.1	11.2
DUB - 10M	10	10	7.9	22	19	17.2	19.5	48.5	29.4	63.7	37.0	16.2	11.2
DUB - 12M	12	12	9.5	24	22	22.8	22.0	50.8	31.8	71.0	41.9	19.5	12.7
DUB - 15M	15	15	11.9	27	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
DUB - 16M	16	16	12.7	27	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
DUB - 18M	18	18	15.1	30	30	24.4	22.0	58.7	37.3	78.9	47.4	26.0	16.8
DUB - 20M	20	20	15.9	35	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	17.0
DUB - 22M	22	22	18.3	35	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	19.1
DUB - 25M	25	25	21.8	41.3	38	31.3	26.5	71.4	45.2	95.9	57.5	33.7	19.1
DUB - 32M	32	32	28.6	50	50	42.0	41.6	82.3	49.5	128.3	72.5	42.5	19.0
DUB - 38M	38	38	33.7	60	60	49.4	47.9	89.4	51.5	144.6	79.1	50.5	19.0

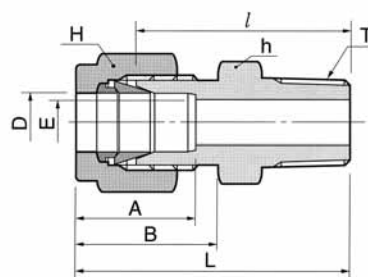
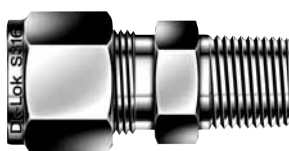
A, B & L are approximate figures in finger-tight.

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.



DK TECH Corporation

Male Connector DMC-N

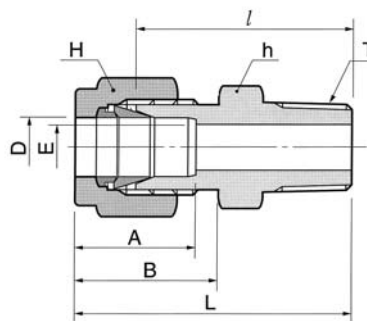
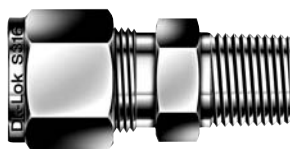


Connects fractional tube to female NPT thread

Part No.	Tube O.D.		T (NPT)	E Min.	Width across flat				A	B	l	L
	D				h		H					
					in	mm	in	mm				
DMC 1-1N	1/16	1.59	1/16	1.27	5/16	7.93	5/16	7.93	8.63	10.92	20.00	23.83
DMC 1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	22.35	26.23
DMC 1-4N	1/16	1.59	1/4	1.27	9/16	14.28	5/16	7.93	8.63	10.92	27.17	30.98
DMC 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
DMC 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
DMC 2-4N	1/8	3.17	1/4	2.28	9/16	14.28	7/16	11.11	12.70	15.24	28.95	35.56
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 4-12N	1/4	6.35	3/4	4.82	1-1/6	26.98	9/16	14.28	15.24	17.78	38.86	46.22
DMC 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
DMC 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
DMC 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
DMC 5-8N	5/16	7.93	1/2	6.35	7/8	22.22	5/8	15.87	16.25	18.54	38.11	45.60
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 20-24N	1-1/4	31.75	1-1/2	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	60.54	82.64
DMC 24-20N	1-1/2	38.10	1-1/4	27.68	2-1/8	53.98	2-1/4	57.15	50.03	45.21	59.42	86.60
DMC 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
DMC 24-32N	1-1/2	38.10	2	34.03	2-3/4	69.85	2-1/4	57.15	50.03	45.21	62.42	99.75
DMC 32-8N	2	50.80	1/2	11.93	2-3/4	69.85	3	76.20	67.56	62.73	68.40	105.73
DMC 32-20N	2	50.80	1-1/4	45.97	2-3/4	69.85	3	76.20	67.56	62.73	71.40	108.73
DMC 32-24N	2	50.80	1-1/2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	75.50	112.83
DMC 32-32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	76.20	113.53

A, B & L are approximate figures in finger-tight.

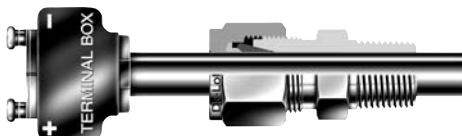
Male Connector DMC-R



Connects metric tube to female ISO tapered thread

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

Thermocouple Connector DMCT



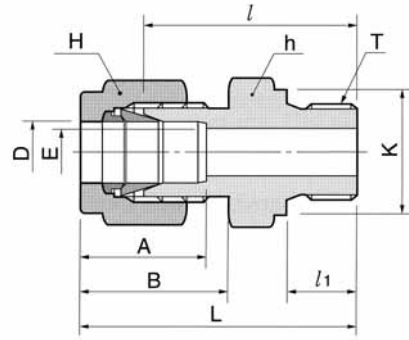
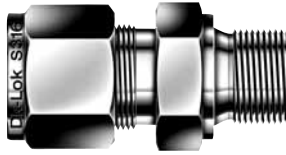
Dk-Lok® thermocouple connector has no shoulder nor sizing angle inside the fitting, the features enable thermocouple to go through fitting's thread end. Suffix "T" to Male Connector identifier.

Example : DMCT 8-8N-S for ordering Thermocouple connector
O.D. 1/2" x 1/2" NPT S316.

Assembly Instructions

1. Position the length of the Thermocouple passed through fitting's thread end and hold it to prevent shifting during assembly.
2. Turn the nut 1-1/4 after finger tight with a wrench by holding the body with a back up wrench for size 1/4" (6mm) or above.

Male Connector for Bonded Seal DMC-G



Connects fractional tube to female ISO parallel thread

Part No.	Tube O.D.		T (PF)	E Min.	Width across flat				A	B	l	l ₁	L	K
	D				h		H							
	in	mm			in	mm	in	mm						
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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
DMC 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	22.00	84.75	55.00

Connects metric tube to female ISO parallel thread

Part No.	Tube O.D. D		T G(PF)	E Min.	Width across flat		A	B	l	l ₁	L	K
	in	mm			h	H						
DMC 2M-2G	2	50.8	1/8	1.7	14	12	12.9	15.3	23.4	7.1	30.0	13.8
DMC 3M-2G	3	76.2	1/8	2.4	14	12	12.9	15.3	23.4	7.1	30.0	13.8
DMC 3M-4G	3	76.2	1/4	2.4	19	12	12.9	15.3	28.7	11.2	35.3	18.0
DMC 4M-2G	4	101.6	1/8	2.4	14	12	13.7	16.1	24.1	7.1	30.7	13.8
DMC 4M-4G	4	101.6	1/4	2.4	19	12	13.7	16.1	29.4	11.2	36.0	18.0
DMC 6M-2G	6	152.4	1/8	4.0	14	14	15.3	17.7	24.9	7.1	32.3	13.8
DMC 6M-4G	6	152.4	1/4	4.8	19	14	15.3	17.7	30.2	11.2	37.6	18.0
DMC 6M-6G	6	152.4	3/8	4.8	22	14	15.3	17.7	31.5	11.2	38.9	21.8
DMC 6M-8G	6	152.4	1/2	4.8	27	14	15.3	17.7	37.3	14.2	44.7	26.0
DMC 8M-2G	8	203.2	1/8	4.0	15	16	16.2	18.6	25.7	7.1	33.2	13.8
DMC 8M-4G	8	203.2	1/4	6.4	19	16	16.2	18.6	31.0	11.2	38.5	13.8
DMC 8M-6G	8	203.2	3/8	6.4	22	16	16.2	18.6	32.3	11.2	39.8	21.8
DMC 8M-8G	8	203.2	1/2	6.4	27	16	16.2	18.6	38.1	14.2	45.6	26.0
DMC 10M-4G	10	254.0	1/4	6.4	19	19	17.2	19.5	31.8	11.2	39.4	18.0
DMC 10M-6G	10	254.0	3/8	7.9	22	19	17.2	19.5	33.0	11.2	40.6	21.8
DMC 10M-8G	10	254.0	1/2	7.9	27	19	17.2	19.5	38.9	14.2	46.5	26.0
DMC 12M-4G	12	304.8	1/4	5.9	22	22	22.8	22.0	32.5	11.2	42.6	18.0
DMC 12M-6G	12	304.8	3/8	7.9	22	22	22.8	22.0	33.0	11.2	43.1	21.8
DMC 12M-8G	12	304.8	1/2	9.5	27	22	22.8	22.0	38.9	14.2	49.0	26.0
DMC 12M-12G	12	304.8	3/4	9.5	35	22	22.8	22.0	42.7	15.7	52.8	32.0
DMC 16M-6G	16	406.4	3/8	7.9	24	25	24.4	22.0	33.8	11.2	43.9	21.8
DMC 16M-8G	16	406.4	1/2	11.9	27	25	24.4	22.0	38.9	14.2	49.0	26.0
DMC 18M-8G	18	457.2	1/2	11.9	27	30	24.4	22.0	38.9	14.2	49.0	26.0
DMC 18M-12G	18	457.2	3/4	15.1	35	30	24.4	22.0	42.7	15.7	52.8	32.0
DMC 20M-8G	20	508.0	1/2	11.9	30	32	26.0	22.0	40.4	14.2	50.5	26.0
DMC 20M-12G	20	508.0	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
DMC 22M-12G	22	559.1	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
DMC 22M-16G	22	559.1	1	18.3	41	32	26.0	22.0	45.2	18.3	55.3	39.0
DMC 25M-12G	25	635.0	3/4	15.9	35	38	31.3	26.5	45.2	15.7	57.5	32.0
DMC 25M-16G	25	635.0	1	19.8	41	38	31.3	26.5	47.8	18.3	60.1	39.0
DMC 28M-16G	28	711.2	1	19.8	41	46	36.6	36.6	49.3	18.3	70.1	39.0
DMC 28M-20G	28	711.2	1-1/4	21.8	50	46	36.6	36.6	53.1	19.8	73.9	49.0
DMC 32M-20G	32	812.8	1-1/4	25.0	50	50	42.0	41.6	55.9	19.8	78.9	49.0
DMC 38M-24G	38	965.2	1-1/2	31.8	55	60	49.4	47.9	63.2	22.1	90.8	54.7

A, B & L are approximate figures in finger-tight.

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

ISO Pipe Thread

The International Standards Organization created the ISO 228/1 and 7/1 threads to standardize the nomenclature of several international pipe threads.

228/1

The ISO 228/1 is a parallel thread that is no sealing threads. The pressure tight seal is usually made metal to metal against the female port or with a gasket.

The 228/1 is described in following codes.

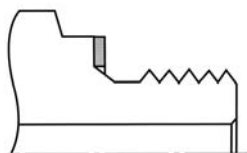
1. BS 2779 (BSPP) 2. DIN-ISO 228/1 3. JIS B0202 (PF) 4. ISO 228/1

The 228/1 threads sealing available in Dk-Lok® are listed below.

A self-centering taper is constructed at the hex. This taper centers a bonded washer to seal to the surface surrounding the female thread.

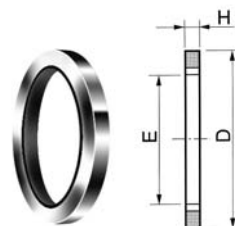
DGB Bonded Seal Gasket

(Buna N inner ring bonded to carbon steel outer ring)



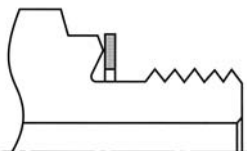
Sealing by compression
against face of body
Reference DIN 3852 Type A

Ordering Number	E		H		D	
	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)
DGB-2-	10.4	0.41	2.0	0.08	16.0	0.63
DGB-4-	13.7	0.54	2.0	0.08	20.6	0.81
DGB-6-	17.3	0.68	2.0	0.08	23.9	0.94
DGB-8-	21.6	0.85	2.5	0.10	28.7	1.13
DGB-12-	27.2	1.06	2.5	0.10	35.1	1.38
DGB-16-	33.8	1.33	2.5	0.10	42.9	1.69
DGB-20-	42.4	1.67	2.5	0.10	51.05	2.01
DGB-24-	48.8	1.92	2.5	0.10	59.18	2.33



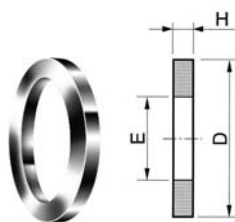
A metal gasket performs the sealing between the reverse bevel of the fitting and the face of the female threaded component.

DGC Copper Gasket



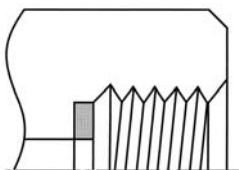
Sealing by gasket (washer)
Reference DIN 3852 Type B

Ordering Number	E		H		D	
	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)
DGC-2-	10	0.39	2.0	0.08	18	0.71
DGC-4-	14	0.55	2.0	0.08	22	0.86
DGC-6-	17	0.67	2.0	0.08	26	1.02
DGC-8-	22	0.86	2.0	0.08	32	1.26
DGC-12-	27	1.06	2.0	0.08	38	1.50
DGC-16-	34	1.34	2.0	0.08	42	1.65
DGC-20-	42.2	1.66	2.0	0.08	49.8	1.96
DGC-24-	48.0	1.89	2.0	0.08	58.4	2.30



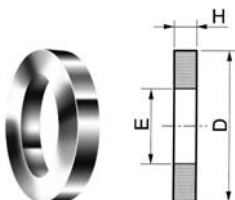
A gasket is dropped into the flat bottom of the female thread. The face of the male thread exerts a load on the gasket to seal.

DGG Copper Gasket



Sealing by gasket.
Reference DIN 3852 Type Y

Ordering Number	E		H		D	
	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)
DGG-4-	7.6	0.30	1.8	0.07	10.7	0.42
DGG-6-	8.6	0.34	2.3	0.09	14.2	0.56
DGG-8-	9.1	0.36	2.5	0.10	17.8	0.70



Gasket Temperature Ratings	Gasket	Material	Ratings
	DGB	Buna N	-40°C to 121°C (-40°F to 250°F)
		FKM	-28°C to 204°C (-20°F to 400°F)
	DGC, DGG	Copper	-198°C to 204°C (-325°F to 400°F)

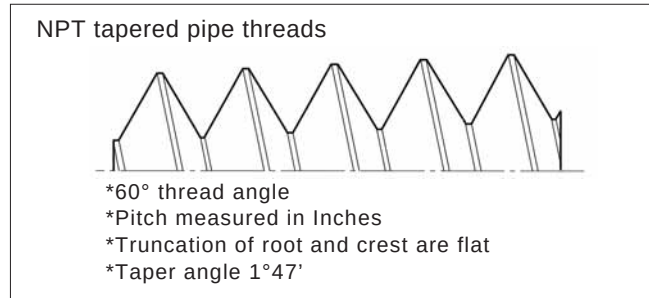
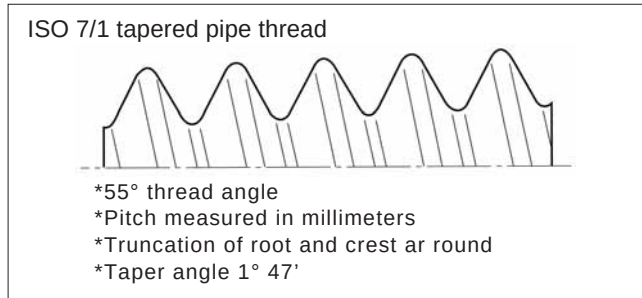
7/1

The ISO 7/1 is a tapered thread that is sealing threads working by interference fit. This still requires thread sealant for pressure-tight seal by filling the voids between threads further this prevents galling on piping threads. The sealant usually contains a lubricant.

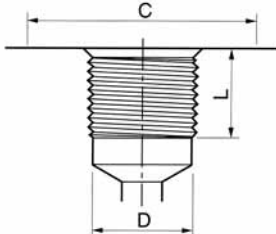
The 7/1 is described in following codes.

1. BS 21(BSPT) 2. JIS B0203 (PT) 3. ISO 7/1 4. DIN 2999 (male thread only)

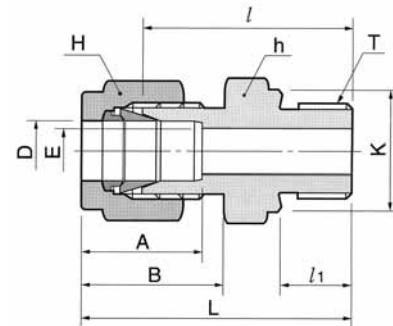
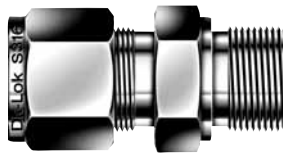
The 7/1 looks similar to the NPT thread. See how different they are as illustrated below.



ISO Internal Parallel Pipe Thread

	Dk-Lok Pipe Thread Designator	ISO Female Parallel Pipe Size	Minimum Full Thread Depth L	Thread Minor Diameter D	Minimum Flat Diameter for DGB & DGC C
	2	1/8	0.31	0.337 / 0.348	0.59
	4	1/4	0.47	0.450 / 0.468	0.75
	6	3/8	0.47	0.588 / 0.606	0.91
	8	1/2	0.55	0.733 / 0.755	1.06
	12	3/4	0.63	0.949 / 0.971	1.30
	16	1	0.71	1.193 / 1.218	1.57

Male Connector for Metal Gasket DOM



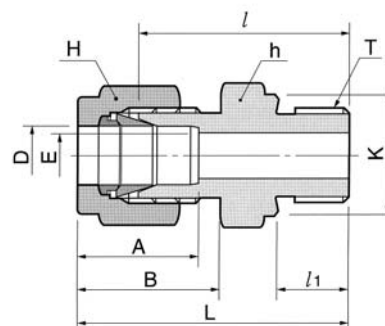
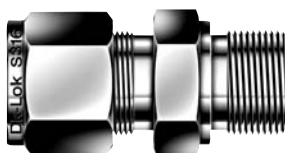
Connects fractional tube to female ISO parallel thread

Part No.	Tube O.D.		T (PF)	E Min.	Width across flat				A	B	l	l ₁	L	K
	D				h		H							
	in	mm			in	mm	in	mm						
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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
DOM 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	22.00	84.75	55.00

A, B & L are approximate figures in finger-tight.

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

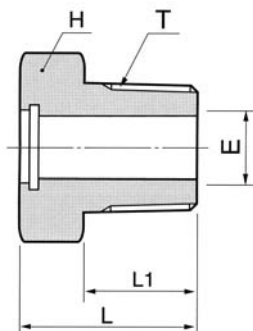
Male Connector for Metal Gasket DOM



Connects metric tube to female ISO parallel thread

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

Vent Protector DMD



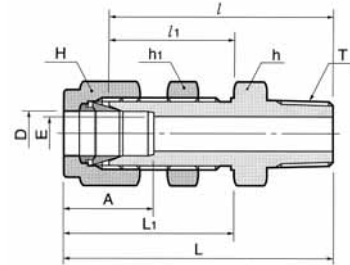
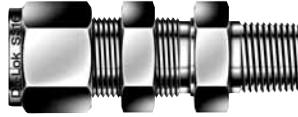
Part No.	T (NPT)	E Min.	H		L	L1
			in	mm		
DMD-4N	1/4	7.11	9/16	15.87	20.57	14.22
DMD-6N	3/8	10.40	11/16	17.46	20.57	14.22
DMD-8N	1/2	12.70	7/8	23.81	26.92	19.05
DMD-12N	3/4	16.00	1-1/16	26.98	28.70	19.05

Bore-thru pipe plug with Stainless Steel 40x40 mesh, 0.010 diameter wire screen.

DK-LOK® vent protector, known as the mud dauber fittings, protects open ends of instruments, tubing, outlet vents by preventing foreign materials such as insects, debris from entering and clogging systems.

Standard S316 Stainless steel and Brass materials.

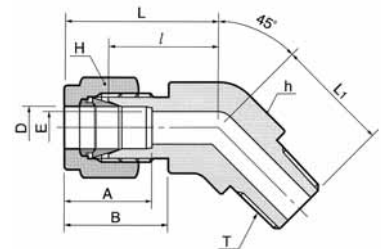
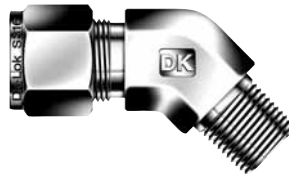
Bulkhead Male Connector DMCB



Connects fractional tube to female NPT thread

Part No.	Tube O.D.		T (NPT)	E Min.	Width across flat						A	l	h1	L	L1	Panel Hole Drill size	Panel Max Thickness
	in	mm			h		h1		H								
					in	mm	in	mm	in	mm							
DMCB 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
DMCB 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
DMCB 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
DMCB 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
DMCB 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
DMCB 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
DMCB 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
DMCB 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
DMCB 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
DMCB 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
DMCB 20-20N	1-1/4	31.75	1-1/4	27.68	1-7/8	47.63	1-7/8	47.63	1-7/8	47.63	41.14	85.97	47.75	108.07	69.85	41.67	19.05
DMCB 24-24N	1-1/2	38.10	1-1/2	34.03	2-1/4	57.15	2-1/4	57.15	2-1/4	57.15	50.03	93.03	49.27	120.21	76.45	49.61	19.05
DMCB 32-32N	2	50.80	2	45.97	2-3/4	69.85	2-3/4	69.85	3	76.20	67.56	107.29	56.38	144.62	93.71	16.27	19.05

45° Male Elbow DLBM

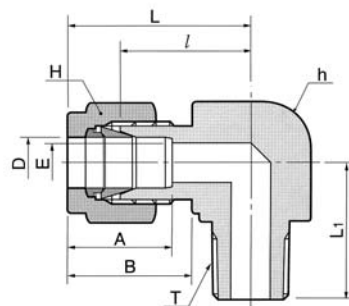


Connects fractional tube to female NPT thread

Part No.	Tube O.D.		T (NPT)	E Min.	Width across flat				A	B	l	L	L ¹
	D				h		H						
	in	mm			in	mm	in	mm					
DLBM 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
DLBM 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
DLBM 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
DLBM 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
DLBM 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
DLBM 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
DLBM 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
DLBM 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
DLBM 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

A, B & L are approximate figures in finger-tight.

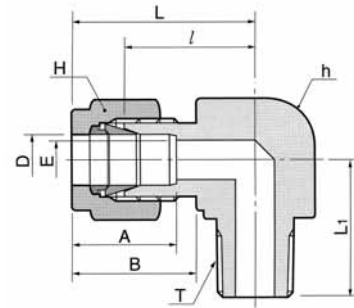
Male Elbow DLM



Connects fractional tube to female NPT thread

Part No.	Tube O.D.		T (NPT)	E Min.	Width across flat				A	B	l	L	L1
	D				h		H						
					in	mm	in	mm					
DLM 1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
DLM 1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.47	18.79
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 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
DLM 14-12N	7/8	22.22	3/4	15.74	1-3/8	34.92	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
DLM 16-12N	1	25.40	3/4	15.74	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
DLM 16-16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	46.70
DLM 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
DLM 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
DLM 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 DLM

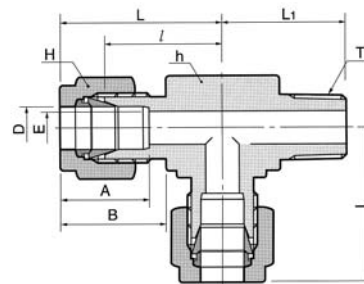


Connects metric tube to female ISO tapered thread

Part No.	Tube O.D. D	T R(PT)	E Min.	Width across flat		A	B	l	L	L1
				h	H					
DLM 3M - 2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
DLM 3M - 4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
DLM 4M - 2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
DLM 4M - 4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
DLM 6M - 2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
DLM 6M - 4R	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
DLM 6M - 6R	6	3/8	4.8	17.5	14	15.3	17.7	22.4	29.8	26.2
DLM 6M - 8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
DLM 8M - 2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
DLM 8M - 4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
DLM 8M - 6R	8	3/8	6.4	17.5	16	16.2	18.6	23.1	30.6	26.2
DLM 8M - 8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
DLM 10M - 2R	10	1/8	4.8	17.5	19	17.2	19.5	23.9	31.5	23.6
DLM 10M - 4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
DLM 10M - 6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
DLM 10M - 8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
DLM 12M - 2R	12	1/8	4.8	20.6	22	22.8	22.0	25.9	36.0	23.6
DLM 12M - 4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
DLM 12M - 6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
DLM 12M - 8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
DLM 12M - 12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
DLM 16M - 6R	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
DLM 16M - 8R	16	1/2	11.9	23.81	25	24.4	22.0	27.9	38.0	35.1
DLM 16M - 12R	16	3/4	12.7	23.81	25	24.4	22.0	29.7	39.8	36.8
DLM 18M - 8R	18	1/2	11.9	27.0	30	24.4	22.0	29.7	39.8	36.8
DLM 18M - 12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
DLM 20M - 8R	20	1/2	11.9	34.92	32	26.0	22.0	34.5	44.6	41.7
DLM 20M - 12R	20	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
DLM 22M - 12R	22	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
DLM 22M - 16R	22	1	18.3	34.92	32	26.0	22.0	34.5	44.6	46.5
DLM 25M - 12R	25	3/4	15.9	34.92	38	31.3	26.5	36.8	49.1	41.7
DLM 25M - 16R	25	1	21.8	34.92	38	31.3	26.5	36.8	49.1	46.5

A, B & L are approximate figures in finger-tight.

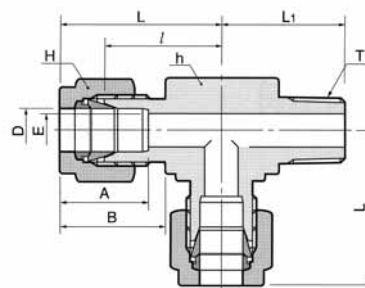
Male Run Tee DTRM



Connects fractional tube to female NPT thread

Part No.	Tube O.D.		T (NPT)	E Min.	Width across flat				A	B	I	L	L1
	D				h		H						
	in	mm			in	mm	in	mm					
DTRM 1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
DTRM 1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
DTRM 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
DTRM 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
DTRM 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
DTRM 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
DTRM 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
DTRM 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
DTRM 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
DTRM 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	28.40
DTRM 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	35.10
DTRM 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
DTRM 5-4N	5/16	7.94	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	22.35	29.77	24.50
DTRM 5-6N	5/16	7.94	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	28.40
DTRM 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
DTRM 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
DTRM 6-8N	3/8	9.52	1/2	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	33.27	33.02
DTRM 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
DTRM 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
DTRM 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
DTRM 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
DTRM 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	39.84	36.83
DTRM 10-6N	5/8	15.87	3/8	9.65	15/16	23.81	1	25.40	24.38	21.84	27.90	38.10	29.40
DTRM 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
DTRM 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
DTRM 12-8N	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	37.00
DTRM 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
DTRM 14-12N	7/8	22.23	3/4	15.74	1-3/8	34.92	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
DTRM 16-12N	1	25.40	3/4	15.74	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
DTRM 16-16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	46.70
DTRM 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
DTRM 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
DTRM 32-32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18	70.61

Male Run Tee DTRM

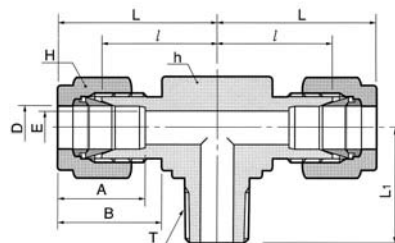


Connects metric tube to female ISO tapered thread

Part No.	Tube O.D. D	T R(PT)	E Min.	Width across flat		A	B	l	L	L1
				h	H					
DTRM 3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
DTRM 3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
DTRM 4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
DTRM 4M-4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
DTRM 6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
DTRM 6M-4R	6	1/4	4.8	14.2	14	15.3	17.7	19.6	27.0	23.4
DTRM 6M-6R	6	3/8	4.8	17.5	14	15.3	17.7	22.4	29.8	26.2
DTRM 6M-8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
DTRM 8M-2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
DTRM 8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
DTRM 8M-6R	8	3/8	6.4	17.5	16	16.2	18.6	23.1	30.6	26.2
DTRM 8M-8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
DTRM 10M-2R	10	1/8	4.8	17.5	19	17.2	19.5	23.9	31.5	23.6
DTRM 10M-4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
DTRM 10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
DTRM 10M-8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
DTRM 12M-2R	12	1/8	4.8	20.6	22	22.8	22.0	25.9	36.0	23.6
DTRM 12M-4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
DTRM 12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
DTRM 12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
DTRM 12M-12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
DTRM 16M-6R	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
DTRM 16M-8R	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
DTRM 16M-12R	16	3/4	12.7	27.0	25	24.4	22.0	29.7	39.8	36.8
DTRM 18M-8R	18	1/2	11.9	27.0	30	24.4	22.0	29.7	39.8	36.8
DTRM 18M-12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
DTRM 20M-8R	20	1/2	11.9	34.92	32	26.0	22.0	34.5	44.6	41.7
DTRM 20M-12R	20	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
DTRM 22M-12R	22	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
DTRM 22M-16R	22	1	18.3	34.92	32	26.0	22.0	34.5	44.6	46.5
DTRM 25M-12R	25	3/4	15.9	34.92	38	31.3	26.5	36.8	49.1	41.7
DTRM 25M-16R	25	1	21.8	34.92	38	31.3	26.5	36.8	49.1	46.5

A, B & L are approximate figures in finger-tight.

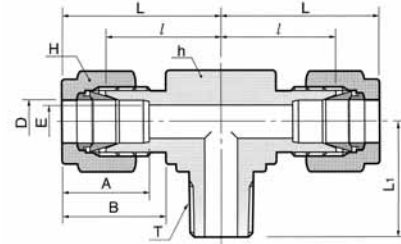
Male Branch Tee DTBM



Connects fractional tube to female NPT thread

Part No.	Tube O.D.		T (NPT)	E Min.	Width across flat				A	B	l	L	L1
	D				h		H						
	in	mm			in	mm	in	mm					
DTBM 1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
DTBM 1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
DTBM 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
DTBM 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
DTBM 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
DTBM 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
DTBM 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
DTBM 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	19.10
DTBM 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
DTBM 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	28.40
DTBM 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	35.10
DTBM 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
DTBM 5-4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	22.35	29.77	24.50
DTBM 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	28.40
DTBM 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
DTBM 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
DTBM 6-8N	3/8	9.52	1/2	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	33.27	33.02
DTBM 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
DTBM 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
DTBM 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	28.30
DTBM 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
DTBM 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
DTBM 10-6N	5/8	15.87	3/8	9.65	15/16	23.81	1	25.40	24.38	21.84	27.90	38.10	29.40
DTBM 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
DTBM 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
DTBM 12-8N	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	37.00
DTBM 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	39.87	36.83
DTBM 14-12N	7/8	22.22	3/4	15.74	1-3/8	34.92	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
DTBM 16-12N	1	25.40	3/4	15.74	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
DTBM 16-16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	36.83	49.02	46.70
DTBM 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
DTBM 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
DTBM 32-32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18	70.61

Male Branch Tee DTBM

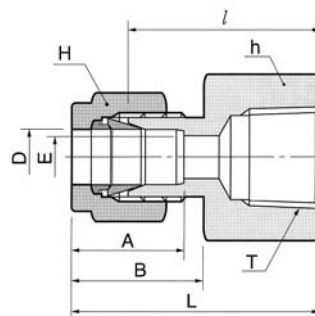
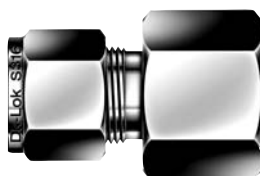


Connects metric tube to female ISO tapered thread

Part No.	Tube O.D.	T	E	Width across flat		A	B	l	L	L1
	D	R(PT)	Min.	h	H					
DTBM 3M - 2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
DTBM 3M - 4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
DTBM 4M - 2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
DTBM 4M - 4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
DTBM 6M - 2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
DTBM 6M - 4R	6	1/4	4.8	14.2	14	15.3	17.7	19.6	27.0	23.4
DTBM 6M - 6R	6	3/8	4.8	17.5	14	15.3	17.7	22.4	29.8	26.2
DTBM 6M - 8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
DTBM 8M - 2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
DTBM 8M - 4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
DTBM 8M - 6R	8	3/8	6.4	17.5	16	16.2	18.6	23.1	30.6	26.2
DTBM 8M - 8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
DTBM 10M - 2R	10	1/8	4.8	17.5	19	17.2	19.5	23.9	31.5	23.6
DTBM 10M - 4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
DTBM 10M - 6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
DTBM 10M - 8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
DTBM 12M - 2R	12	1/8	4.8	20.6	22	22.8	22.0	25.9	36.0	23.6
DTBM 12M - 4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
DTBM 12M - 6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
DTBM 12M - 8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
DTBM 12M - 12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
DTBM 16M - 6R	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
DTBM 16M - 8R	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
DTBM 16M - 12R	16	3/4	12.7	27.0	25	24.4	22.0	29.7	39.8	36.8
DTBM 18M - 8R	18	1/2	11.9	27.0	30	24.4	22.0	29.7	39.8	36.8
DTBM 18M - 12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
DTBM 20M - 8R	20	1/2	11.9	34.92	32	26.0	22.0	34.5	44.6	41.7
DTBM 20M - 12R	20	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
DTBM 22M - 12R	22	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
DTBM 22M - 16R	22	1	18.3	34.92	32	26.0	22.0	34.5	44.6	46.5
DTBM 25M - 12R	25	3/4	15.9	34.92	38	31.3	26.5	36.8	49.1	41.7
DTBM 25M - 16R	25	1	21.8	34.92	38	31.3	26.5	36.8	49.1	46.5

A, B & L are approximate figures in finger-tight.

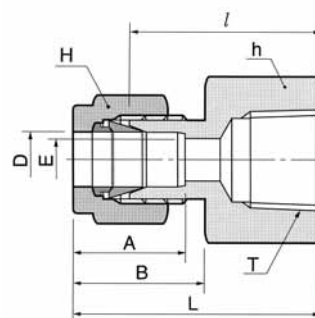
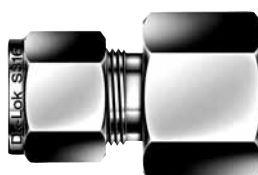
Female Connector DCF



Connects fractional tube to male NPT thread

Part No.	Tube O.D.		T (NPT)	E Min.	Width across flat				A	B	l	L
	D				h		H					
	in	mm			in	mm	in	mm				
DCF 1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	19.81	23.62
DCF 1-2N	1/16	1.59	1/8	1.27	9/16	14.28	5/16	7.93	8.63	10.92	20.57	24.38
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 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
DCF 24-24N	1-1/2	38.10	1-1/2	34.03	2-3/8	60.33	2-1/4	57.15	50.03	45.21	56.13	83.31
DCF 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 DCF



Connects metric tube to male ISO tapered thread

Part No.	Tube O.D. D	T R(PT)	E Min.	Width across flat		A	B	l	L
				h	H				
DCF 3M-2R	3	1/8	2.4	14	12	12.9	15.3	22.1	28.7
DCF 3M-4R	3	1/4	2.4	19	12	12.9	15.3	26.9	33.5
DCF 4M-2R	4	1/8	2.4	14	12	13.7	16.1	23.1	29.7
DCF 6M-2R	6	1/8	4.8	14	14	15.3	17.7	23.9	31.3
DCF 6M-4R	6	1/4	4.8	19	14	15.3	17.7	28.4	35.8
DCF 6M-6R	6	3/8	4.8	22	14	15.3	17.7	29.5	36.9
DCF 6M-8R	6	1/2	4.8	27	14	15.3	17.7	35.1	42.5
DCF 8M-2R	8	1/8	6.4	15	16	16.2	18.6	24.6	32.1
DCF 8M-4R	8	1/4	6.4	19	16	16.2	18.6	29.5	37.0
DCF 8M-6R	8	3/8	6.4	22	16	16.2	18.6	30.2	37.7
DCF 8M-8R	8	1/2	6.4	27	16	16.2	18.6	35.8	43.3
DCF 10M-2R	10	1/8	7.9	18	19	17.2	19.5	25.4	33.0
DCF 10M-4R	10	1/4	7.9	19	19	17.2	19.5	30.2	37.8
DCF 10M-6R	10	3/8	7.9	22	19	17.2	19.5	31.0	38.6
DCF 10M-8R	10	1/2	7.9	27	19	17.2	19.5	36.6	44.2
DCF 12M-2R	12	1/8	8.3	22	22	22.8	22.0	28.4	38.5
DCF 12M-4R	12	1/4	9.5	22	22	22.8	22.0	30.2	40.3
DCF 12M-6R	12	3/8	9.5	22	22	22.8	22.0	31.0	41.1
DCF 12M-8R	12	1/2	9.5	27	22	22.8	22.0	36.6	46.7
DCF 12M-12R	12	3/4	9.5	35	22	22.8	22.0	38.9	49.0
DCF 15M-8R	15	1/2	11.9	27	25	24.4	22.0	36.6	46.7
DCF 16M-8R	16	1/2	12.7	27	25	24.4	22.0	36.8	46.9
DCF 20M-8R	20	1/2	15.9	30	32	26.0	22.0	37.8	47.9
DCF 20M-12R	20	3/4	15.9	35	32	26.0	22.0	39.6	49.7
DCF 22M-12R	22	3/4	18.3	35	32	26.0	22.0	39.6	49.7
DCF 22M-16R	22	1	18.3	41	32	26.0	22.0	47.8	57.9
DCF 25M-12R	25	3/4	21.8	35	38	31.3	26.5	41.1	53.4
DCF 25M-16R	25	1	21.8	41	38	31.3	26.5	50.0	62.3

A, B & L are approximate figures in finger-tight.