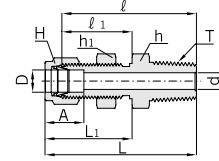


# Hy-Lok Tube Fittings

## Bulkhead Male Connector CBMC

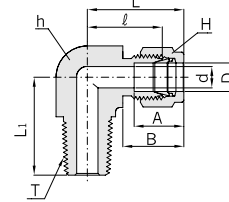


### Connects Fractional Tube to Female NPT Thread

Part No.	Tube O.D. D		T* NPT Size	d+ Min.	Width across flat (in.)			A	ℓ	ℓ <sub>1</sub>	L	L <sub>1</sub>	Panel Hole Drill Size	Panel Max. Thickness
	in.	mm			h	h <sub>1</sub>	H							
CBMC 2 - 2N	1/8	3.17	1/8	2.28	1/2	1/2	7/16	12.70	39.87	24.63	46.48	31.24	8.33	12.20
CBMC 4 - 2N	1/4	6.35	1/8	4.82	5/8	5/8	9/16	15.24	42.16	26.16	49.53	33.52	11.50	10.16
CBMC 4 - 4N	1/4	6.35	1/4	4.82	5/8	5/8	9/16	15.24	45.97	26.16	53.34	33.52	11.50	10.16
CBMC 6 - 4N	3/8	9.52	1/4	7.11	3/4	3/4	11/16	16.76	50.03	29.46	57.40	36.83	14.68	11.17
CBMC 6 - 6N	3/8	9.52	3/8	7.11	3/4	3/4	11/16	16.76	50.03	29.46	57.40	36.83	14.68	11.17
CBMC 6 - 8N	3/8	9.52	1/2	7.11	7/8	3/4	11/16	16.76	56.38	29.46	63.75	36.83	14.68	11.17
CBMC 8 - 6N	1/2	12.70	3/8	9.39	15/16	15/16	7/8	22.86	53.08	31.75	63.24	41.91	19.44	12.70
CBMC 8 - 8N	1/2	12.70	1/2	10.41	15/16	15/16	7/8	22.86	58.67	31.75	68.83	41.91	19.44	12.70
CBMC12-12N	3/4	19.05	3/4	15.74	1-3/16	1-3/16	1-1/8	24.38	66.04	37.33	76.20	47.49	25.76	16.76
CBMC16-16N	1	25.40	1	22.35	1-5/8	1-5/8	1-1/2	31.24	81.02	45.21	93.21	57.40	33.73	19.05

† The d dimension is the minimum nominal opening. These fittings may have a larger opening at the pipe/straight thread end.

## Male Elbow CLMA



### Connects Fractional Tube to Female NPT Thread

Part No.	Tube O.D. D		T* NPT Size	d+ Min.	Width across flat (in.)		A	B	ℓ	L	L <sub>1</sub>
	in.	mm			h	H					
CLMA 1 - 1N	1/16	1.58	1/16	1.27	7/16	5/16	8.63	10.92	15.24	19.05	17.78
CLMA 1 - 2N	1/16	1.58	1/8	1.27	7/16	5/16	8.63	10.92	15.24	19.05	17.78
CLMA 2 - 2N	1/8	3.17	1/8	2.28	7/16	7/16	12.70	15.24	17.02	23.62	17.78
CLMA 2 - 4N	1/8	3.17	1/4	2.28	1/2	7/16	12.70	15.24	18.03	24.64	22.80
CLMA 3 - 2N	3/16	4.76	1/8	3.04	1/2	1/2	13.71	16.00	18.79	25.40	18.79
CLMA 3 - 4N	3/16	4.76	1/4	3.04	1/2	1/2	13.71	16.00	18.79	25.40	23.36
CLMA 4 - 1N	1/4	6.35	1/16	3.04	1/2	9/16	15.24	17.78	19.60	26.47	19.10
CLMA 4 - 2N	1/4	6.35	1/8	4.82	1/2	9/16	15.24	17.78	19.60	26.47	19.10
CLMA 4 - 4N	1/4	6.35	1/4	4.82	1/2	9/16	15.24	17.78	19.60	27.18	23.87
CLMA 4 - 6N	1/4	6.35	3/8	4.82	11/16	9/16	15.24	17.78	22.35	29.71	28.40
CLMA 4 - 8N	1/4	6.35	1/2	4.82	13/16	9/16	15.24	17.78	24.60	31.97	33.00
CLMA 5 - 2N	5/16	7.93	1/8	4.82	9/16	5/8	16.25	18.54	21.33	28.70	19.81
CLMA 5 - 4N	5/16	7.93	1/4	6.35	9/16	5/8	16.25	18.54	21.33	28.70	24.40
CLMA 5 - 6N	5/16	7.93	3/8	6.35	11/16	5/8	16.25	18.54	23.11	30.48	28.40
CLMA 6 - 2N	3/8	9.52	1/8	4.82	5/8	11/16	16.76	19.30	23.11	30.48	20.60
CLMA 6 - 4N	3/8	9.52	1/4	7.00	5/8	11/16	16.76	19.30	23.11	30.48	25.40
CLMA 6 - 6N	3/8	9.52	3/8	7.11	11/16	11/16	16.76	19.30	25.91	33.27	28.44
CLMA 6 - 8N	3/8	9.52	1/2	7.11	13/16	11/16	16.76	19.30	25.91	33.27	33.02
CLMA 6 - 12N	3/8	9.52	3/4	7.11	1-1/16	11/16	16.76	19.30	29.71	37.08	36.83
CLMA 8 - 4N	1/2	12.70	1/4	7.00	13/16	7/8	22.86	21.84	25.90	36.06	28.30
CLMA 8 - 6N	1/2	12.70	3/8	9.50	13/16	7/8	22.86	21.84	25.90	36.06	28.30
CLMA 8 - 8N	1/2	12.70	1/2	10.41	13/16	7/8	22.86	21.84	25.90	36.06	33.02
CLMA 8 - 12N	1/2	12.70	3/4	10.41	1-1/16	7/8	22.86	21.84	29.71	39.87	36.83
CLMA10 - 6N	5/8	15.87	3/8	9.65	15/16	1	24.38	21.84	27.90	37.06	30.20
CLMA10 - 8N	5/8	15.87	1/2	12.00	15/16	1	24.38	21.84	27.90	37.06	35.00
CLMA10 - 12N	5/8	15.87	3/4	12.70	1-1/16	1	24.38	21.84	29.71	39.87	36.83
CLMA12 - 8N	3/4	19.05	1/2	12.00	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83
CLMA12 - 12N	3/4	19.05	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83
CLMA14 - 12N	7/8	22.22	3/4	15.74	1-3/16	1-1/4	25.90	21.84	34.54	44.70	41.65
CLMA16 - 12N	1	25.40	3/4	15.74	1-3/8	1-1/2	31.24	26.41	36.83	49.02	42.20
CLMA16 - 16N	1	25.40	1	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02	46.50
CLMA20 - 20N	1-1/4	31.75	1-1/4	27.68	1-11/16	1-7/8	41.14	38.86	44.45	66.54	47.75
CLMA24 - 24N	1-1/2	38.10	1-1/2	34.03	2	2-1/4	50.03	45.21	50.80	77.97	60.45
CLMA32 - 32N	2	50.80	2	45.97	2-3/4	3	67.56	62.73	69.80	107.18	70.61

\*ISO Tapered Threads are available upon request.

† The d dimension is the minimum nominal opening. These fittings may have a larger opening at the pipe/straight thread end.

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