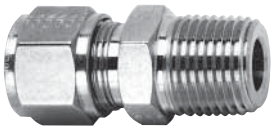
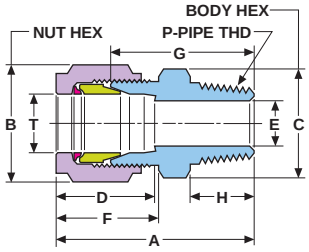
Male Connector: CM, CM/EC

connects **fractional** tube to female NPT or RT threads

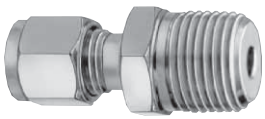


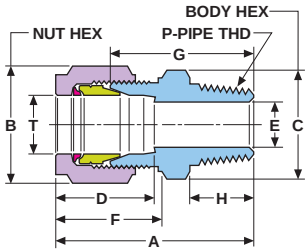


Part Number*		Dimensions — inches									
NPT Threads	RT Threads	T Tube O.D.	P Male NPT Size	A	B Hex Flat	C Hex Flat	D	E min	F	G	H
1CM1[ ]	—	1/16	1/16	.97	5/16	5/16	.41	.05	.48	.75	.38
1CM2[ ]	—	1/16	1/8	1.03	5/16	7/16	.41	.05	.48	.81	.38
1CM4[ ]	—	1/16	1/4	1.22	5/16	9/16	.41	.19	.48	1	.56
2CM1[ ]	—	1/8	1/16	1.19	7/16	7/16	.56	.09	.67	.88	.38
2CM2[ ]	2CM2[ ]EC	1/8	1/8	1.22	7/16	7/16	.56	.09	.67	.91	.38
2CM4[ ]	2CM4[ ]EC	1/8	1/4	1.44	7/16	9/16	.56	.09	.67	1.13	.56
3CM2[ ]	—	3/16	1/8	1.27	1/2	7/16	.59	.13	.70	.95	.38
3CM4[ ]	3CM4[ ]EC	3/16	1/4	1.50	1/2	9/16	.59	.13	.70	1.19	.56
4CM1[ ]	—	1/4	1/16	1.33	9/16	1/2	.64	.10	.77	1	.38
4CM2[ ]	4CM2[ ]EC	1/4	1/8	1.33	9/16	1/2	.64	.19	.77	1	.38
4CM4[ ]	4CM4[ ]EC	1/4	1/4	1.58	9/16	9/16	.64	.19	.77	1.25	.56
4CM6[ ]	4CM6[ ]EC	1/4	3/8	1.58	9/16	11/16	.64	.19	.77	1.25	.56
4CM8[ ]	4CM8[ ]EC	1/4	1/2	1.80	9/16	7/8	.64	.19	.77	1.47	.75
4CM12[ ]	—	1/4	3/4	1.83	9/16	1 1/16	.64	.19	.77	1.50	.75
6CM2[ ]	6CM2[ ]EC	3/8	1/8	1.45	11/16	5/8	.72	.19	.83	1.09	.38
6CM4[ ]	6CM4[ ]EC	3/8	1/4	1.64	11/16	5/8	.72	.30	.83	1.28	.56
6CM6[ ]	6CM6[ ]EC	3/8	3/8	1.64	11/16	11/16	.72	.30	.83	1.28	.56
6CM8[ ]	6CM8[ ]EC	3/8	1/2	1.86	11/16	7/8	.72	.28	.83	1.50	.75
6CM12[ ]	—	3/8	3/4	1.86	11/16	1 1/16	.72	.30	.83	1.50	.75
8CM2[ ]	—	1/2	1/8	1.56	7/8	13/16	.97	.19	.92	1.09	.38
8CM4[ ]	8CM4[ ]EC	1/2	1/4	1.78	7/8	13/16	.97	.30	.92	1.31	.56
8CM6[ ]	8CM6[ ]EC	1/2	3/8	1.78	7/8	13/16	.97	.41	.92	1.31	.56
8CM8[ ]	8CM8[ ]EC	1/2	1/2	1.97	7/8	7/8	.97	.42	.92	1.50	.75
8CM12[ ]	8CM12[ ]EC	1/2	3/4	2	7/8	1 1/16	.97	.42	.92	1.53	.75
8CM16[ ]	—	1/2	1	2.19	7/8	1 3/8	.97	.42	.92	1.72	.94
10CM6[ ]	—	5/8	3/8	1.78	1	15/16	1	.41	.92	1.34	.56
10CM8[ ]	10CM8[ ]EC	5/8	1/2	1.97	1	15/16	1	.50	.92	1.53	.75
10CM12[ ]	—	5/8	3/4	2	1	1 1/16	1	.50	.92	1.56	.75
12CM8[ ]	—	3/4	1/2	2.08	1 1/8	1 1/16	1	.42	.97	1.63	.75
12CM12[ ]	—	3/4	3/4	2.08	1 1/8	1 1/16	1	.66	.97	1.63	.75
12CM16[ ]	—	3/4	1	2.39	1 1/8	1 3/8	1	.66	.97	1.94	.94
14CM12[ ]	—	7/8	3/4	2.08	1 1/4	1 3/16	1.06	.72	.97	1.64	.75
16CM8[ ]	—	1	1/2	2.36	1 1/2	1 3/8	1.31	.50	1.08	1.78	.75
16CM12[ ]	—	1	3/4	2.36	1 1/2	1 3/8	1.31	.72	1.08	1.39	.75
16CM16[ ]	—	1	1	2.55	1 1/2	1 3/8	1.31	.88	1.08	1.97	.94
20CM16[ ]	—	1 1/4	1	3.04	1 7/8	1 3/4	1.62	.90	1.53	2.17	.94
20CM20[ ]	—	1 1/4	1 1/4	3.04	1 7/8	1 3/4	1.62	1.10	1.53	2.17	.94
24CM24[ ]	—	1 1/2	1 1/2	3.50	2 1/4	2 1/8	1.97	1.30	1.78	2.43	1.03
32CM32[ ]	—	2	2	4.47	3	2 3/4	2.66	1.80	2.47	3	1.06

Male Connector: CM/ME, CM/MC

connects **metric** tube with NPT or RT tapered threads





Part Number*		Dimensions — mm									
NPT Threads	RT Threads	T Tube O.D.	P Pipe Thd.	A	B Hex Flat	C Hex Flat	D	E min	F	G	H
3CM2[ ]ME	3CM2[ ]MC	3	1/8	32.3	11.1	11.1	14.3	2.2	17.1	24.4	9.5
3CM4[ ]ME	3CM4[ ]MC	3	1/4	37.1	11.1	14.3	14.3	2.2	17.1	29.1	14.3
4CM2[ ]ME	4CM2[ ]MC	4	1/8	33.1	12.7	11.1	15.1	2.3	17.9	25.3	9.5
4CM4[ ]ME	4CM4[ ]MC	4	1/4	38.0	12.7	14.3	15.1	2.3	17.9	30.2	14.3
6CM2[ ]ME	6CM2[ ]MC	6	1/8	34.8	14.3	12.7	16.3	3.8	19.5	26.4	9.5
6CM4[ ]ME	6CM4[ ]MC	6	1/4	39.5	14.3	14.3	16.3	3.8	19.5	31.2	14.3
6CM6[ ]ME	6CM6[ ]MC	6	3/8	40.1	14.3	17.5	16.3	3.8	19.5	31.8	14.3
6CM8[ ]ME	6CM8[ ]MC	6	1/2	45.7	14.3	22.2	16.3	3.8	19.5	37.3	19.1
6CM12[ ]ME	6CM12[ ]MC	6	3/4	46.5	14.3	27.0	16.3	3.8	19.5	38.1	19.1
8CM2[ ]ME	8CM2[ ]MC	8	1/8	35.6	15.9	14.3	16.7	4.6	19.1	27.6	9.5
8CM4[ ]ME	8CM4[ ]MC	8	1/4	39.8	15.9	14.3	16.7	5.8	19.1	31.8	14.3
8CM6[ ]ME	8CM6[ ]MC	8	3/8	39.8	15.9	17.5	16.7	5.8	19.1	31.8	14.3
8CM8[ ]ME	8CM8[ ]MC	8	1/2	46.3	15.9	22.2	16.7	5.8	19.1	38.3	19.1
8CM12[ ]ME	8CM12[ ]MC	8	3/4	46.5	15.9	27.0	16.7	5.8	19.1	38.9	19.1
10CM2[ ]ME	10CM2[ ]MC	10	1/8	35.8	19.1	17.5	17.5	4.6	19.8	27.8	9.5
10CM4[ ]ME	10CM4[ ]MC	10	1/4	40.5	19.1	17.5	17.5	7.0	19.8	32.5	14.3
10CM6[ ]ME	10CM6[ ]MC	10	3/8	40.5	19.1	17.5	17.5	7.4	19.8	32.5	14.3
10CM8[ ]ME	10CM8[ ]MC	10	1/2	46.1	19.1	22.2	17.5	7.9	19.8	38.1	19.1
12CM4[ ]ME	12CM4[ ]MC	12	1/4	45.3	22.2	20.6	24.6	7.0	23.4	33.3	14.3
12CM6[ ]ME	12CM6[ ]MC	12	3/8	45.3	22.2	20.6	24.6	9.9	23.4	33.3	14.3
12CM8[ ]ME	12CM8[ ]MC	12	1/2	50.0	22.2	22.2	24.6	9.9	23.4	38.1	19.1
12CM12[ ]ME	12CM12[ ]MC	12	3/4	50.8	22.2	27.0	24.6	9.9	23.4	38.9	19.1
14CM4[ ]ME	14CM4[ ]MC	14	1/4	42.0	23.8	22.2	22.2	7.0	21.0	32.6	14.3
14CM6[ ]ME	14CM6[ ]MC	14	3/8	42.0	23.8	22.2	22.2	9.9	21.0	32.6	14.3
14CM8[ ]ME	14CM8[ ]MC	14	1/2	47.5	23.8	22.2	22.2	11.9	21.0	38.1	19.1
15CM8[ ]ME	15CM8[ ]MC	15	1/2	48.4	23.8	22.2	22.2	12.7	21.8	38.1	19.1
16CM6[ ]ME	16CM6[ ]MC	16	3/8	45.2	25.4	23.8	25.0	9.9	23.4	34.0	14.3
16CM8[ ]ME	16CM8[ ]MC	16	1/2	50.0	25.4	23.8	25.0	12.7	23.4	38.9	19.1
16CM12[ ]ME	16CM12[ ]MC	16	3/4	50.8	25.4	27.0	25.0	12.7	23.4	39.6	19.1
18CM8[ ]ME	18CM8[ ]MC	18	1/2	51.1	28.6	27.0	25.4	12.7	24.6	41.2	19.1
18CM12[ ]ME	18CM12[ ]MC	18	3/4	51.1	28.6	27.0	25.4	15.8	24.6	41.2	19.1
20CM8[ ]ME	20CM8[ ]MC	20	1/2	55.5	31.8	30.2	31.0	11.9	27.0	41.7	19.1
20CM12[ ]ME	20CM12[ ]MC	20	3/4	55.5	31.8	30.2	31.0	16.7	27.0	41.7	19.1
22CM8[ ]ME	22CM8[ ]MC	22	1/2	52.8	31.8	30.2	27.0	12.7	24.6	41.6	19.1
22CM12[ ]ME	22CM12[ ]MC	22	3/4	52.8	31.8	30.2	27.0	17.9	24.6	41.6	19.1
22CM16[ ]ME	22CM16[ ]MC	22	1	62.0	31.8	34.9	27.0	17.9	24.6	50.8	23.8
25CM12[ ]ME	25CM12[ ]MC	25	3/4	59.7	38.1	34.9	33.3	18.1	27.4	45.2	19.1
25CM16[ ]ME	25CM16[ ]MC	25	1	65.4	38.1	34.9	33.3	21.7	27.4	51.0	23.8
30CM16[ ]ME	—	30	1	78.2	50.8	47.6	38.0	22.3	41.2	55.6	24.9
30CM20[ ]ME	—	30	1 1/4	77.9	50.8	46.0	37.8	27.6	41.0	55.6	23.9
32CM16[ ]ME	—	32	1	80.1	50.8	47.6	42.3	22.3	42.9	56.7	24.9
38CM16[ ]ME	—	38	1	89.5	60.3	55.6	49.4	22.3	49.5	61.7	24.9
38CM20[ ]ME	—	38	1 1/4	89.2	60.3	55.6	49.4	28.6	49.5	61.7	24.9
38CM24[ ]ME	—	38	1 1/2	91.6	60.3	55.6	49.4	33.9	49.5	64.0	26.2

* [ ] see page 6 for material specifications.

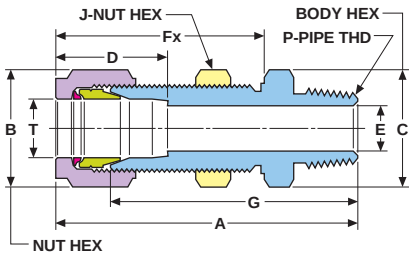
Dimensions for reference only. Subject to change.

Bulkhead Connector, Male: BCM

connects fractional tube to female NPT threads



Metric fitting shown



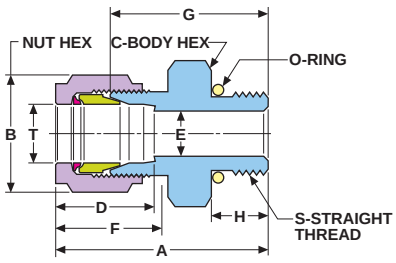
Part Number*	T Tube O.D.	P Pipe Size	Dimensions — inches A	B Hex Flat	C Hex Flat	D	E min	Fx	G	J Hex Flat	Panel Hole Size	Max. Panel Thickness
2BCM2[ ]	1/8	1/8	1.88	7/16	1/2	.56	.09	1.28	1.56	1/2	.33	.44
2BCM4[ ]	1/8	1/4	2.06	7/16	9/16	.56	.09	1.28	1.75	1/2	.33	.44
3BCM2[ ]	3/16	1/8	1.91	1/2	9/16	.59	.13	1.31	1.59	9/16	.39	.47
4BCM2[ ]	1/4	1/8	1.98	9/16	5/8	.64	.19	1.36	1.66	5/8	.45	.47
4BCM4[ ]	1/4	1/4	2.17	9/16	5/8	.64	.19	1.36	1.84	5/8	.45	.47
6BCM4[ ]	3/8	1/4	2.31	11/16	3/4	.72	.30	1.50	1.97	3/4	.58	.53
6BCM6[ ]	3/8	3/8	2.33	11/16	3/4	.72	.30	1.52	1.97	3/4	.58	.53
6BCM8[ ]	3/8	1/2	2.53	11/16	15/16	.7	.30	1.50	2.19	3/4	.58	.53
8BCM6[ ]	1/2	3/8	2.56	7/8	15/16	.97	.41	1.72	2.09	15/16	.77	.59
8BCM8[ ]	1/2	1/2	2.75	7/8	15/16	.97	.42	1.72	2.28	15/16	.77	.59

Bulkhead Connector, Male: BCM/ME

connects metric tube to female NPT threads

Part Number*	T Tube O.D.	P Pipe Thd.	Dimensions — mm A	B Hex Flat	C Hex Flat	D	E min	Fx	G	J Hex Flat	Panel Hole Size	Max. Panel Thickness
3BCM2[ ]ME	3	1/8	48.0	11.1	12.5	14.3	2.2	32.5	40.0	12.7	8.3	12.0
6BCM2[ ]ME	6	1/8	50.5	14.3	15.9	16.3	3.8	34.6	42.2	15.9	11.5	13.0
6BCM4[ ]ME	6	1/4	55.2	14.3	15.9	16.3	3.8	34.6	46.8	15.9	11.5	13.0
6BCM6[ ]ME	6	3/8	55.1	14.3	17.5	16.3	3.8	34.6	46.8	15.9	11.5	13.0
6BCM8[ ]ME	6	1/2	60.7	14.3	22.2	16.3	3.8	34.6	52.3	15.9	11.5	13.0
8BCM4[ ]ME	8	1/4	57.0	15.9	15.9	16.7	5.8	36.6	50.0	17.5	13.1	14.0
10BCM2[ ]ME	10	1/8	54.2	19.1	19.1	17.5	7.8	37.3	46.3	19.1	16.5	14.0
10BCM4[ ]ME	10	1/4	59.0	19.1	19.1	17.5	6.6	37.3	51.1	19.1	16.5	14.0
10BCM6[ ]ME	10	3/8	59.0	19.1	19.1	17.5	7.9	37.3	51.1	19.1	16.5	14.0
12BCM6[ ]ME	12	3/8	66.0	22.2	23.8	24.6	9.9	43.7	54.1	23.8	19.5	16.0
12BCM8[ ]ME	12	1/2	69.9	22.2	23.8	24.6	9.9	43.7	57.9	23.8	19.5	16.0
14BCM8[ ]ME	14	1/2	72.0	23.8	23.8	22.2	11.9	41.1	59.0	23.8	19.5	16.0
16BCM8[ ]ME	16	1/2	70.7	25.4	27.0	25.0	12.7	43.7	59.5	27.0	22.5	14.0
18BCM8[ ]ME	18	1/2	76.0	28.6	30.0	25.4	12.7	48.0	64.0	30.2	26.0	17.0
22BCM8[ ]ME	22	1/2	81.0	31.8	33.5	27.0	12.7	53.0	68.0	33.3	29.5	24.0
25BCM8[ ]ME	25	1/2	88.0	38.1	40.0	33.3	12.7	60.0	73.0	39.7	33.8	24.0





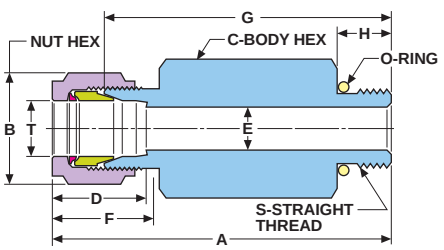
Male Connector, SAE: CMS

connects fractional tube to SAE straight thread boss

Part Number*	T	S	Dimensions — inches A	B Hex Flat	C Hex Flat	D	E min.	F	G	H	O-ring Uniform Size #
2CMS2[ ]	1/8	5/16-24	1.25	7/16	7/16	.56	.09	.67	.94	.30	902
4CMS4[ ]	1/4	7/16-20	1.41	9/16	9/16	.64	.19	.77	1.08	.36	904
4CMS6[ ]	1/4	9/16-18	1.47	9/16	11/16	.64	.19	.77	1.14	.39	906
4CMS8[ ]	1/4	3/4-16	1.55	9/16	7/8	.64	.19	.77	1.22	.44	908
4CMS10[ ]	1/4	7/8-14	1.67	9/16	1	.64	.19	.77	1.34	.50	910
6CMS4[ ]	3/8	7/16-20	1.56	11/16	3/4	.72	.19	.83	1.22	.36	904
6CMS6[ ]	3/8	9/16-18	1.63	11/16	3/4	.72	.30	.83	1.27	.39	906
6CMS8[ ]	3/8	3/4-16	1.61	11/16	7/8	.72	.30	.83	1.27	.44	908
6CMS10[ ]	3/8	7/8-14	1.73	11/16	1	.72	.30	.83	1.38	.50	910
8CMS6[ ]	1/2	9/16-18	1.72	7/8	13/16	.97	.30	.92	1.25	.39	906
8CMS8[ ]	1/2	3/4-16	1.70	7/8	7/8	.97	.42	.92	1.25	.44	908
8CMS12[ ]	1/2	1 1/16-12	1.98	7/8	1 1/4	.97	.42	.92	1.52	.59	912
10CMS10[ ]	5/8	7/8-14	1.83	1	1	1	.50	.92	1.39	.50	910
12CMS8[ ]	3/4	3/4-16	1.91	1 1/8	1 1/16	1	.42	.97	1.45	.44	908
12CMS12[ ]	3/4	1 1/16-12	2.03	1 1/8	1 1/4	1	.66	.97	1.59	.59	912
16CMS12[ ]	1	1 1/16-12	2.19	1 1/2	1 3/8	1.31	.66	1.08	1.63	.59	912
16CMS16[ ]	1	1 5/16-12	2.25	1 1/2	1 1/2	1.31	.88	1.08	1.69	.59	916
20CMS20[ ]	1 1/4	1 5/8-12	2.69	1 7/8	1 7/8	1.62	1.09	1.53	1.82	.59	920
24CMS24[ ]	1 1/2	1 7/8-12	3.06	2 1/4	2 1/8	1.97	1.34	1.78	1.99	.59	924
32CMS32[ ]	2	2 1/2-12	4	3	2 3/4	2.66	1.81	2.47	2.53	.59	932

To specify O-ring material for SAE fittings, see page 6





Long Male Connector, SAE: LCMS

connects fractional tube to SAE straight thread boss

Part Number*	T Tube O.D.	S	Dimensions — inches A	B Hex Flat	C Hex Flat	D	E min.	F	G	H	O-ring Uniform Size #
4LCMS4[ ]	1/4	7/16-20	2.30	9/16	9/16	.64	.19	.77	1.97	.36	904
6LCMS6[ ]	3/8	9/16-18	2.55	11/16	3/4	.72	.30	.83	2.19	.39	906
8LCMS8[ ]	1/2	3/4-16	3.05	7/8	7/8	.97	.42	.92	2.58	.44	908
12LCMS12[ ]	3/4	1 1/16-12	3.92	1 1/8	1 1/4	1	.66	.97	3.48	.59	912
16LCMS16[ ]	1	1 5/16-12	4.42	1 1/2	1 1/2	1.31	.88	1.08	3.86	.59	916

* [ ] see page 6 for material specifications.

O-ring Installation Instructions

HOKE Gyrolok O-ring seal fittings are used for direct connection to existing pipe thread or straight thread ports—which have a smooth, flat surface perpendicular to the threaded port. O-ring seal fittings provide leak-tight sealing on both vacuum and high pressure systems. In the pipe thread version, a special short thread insures against thread interference.

The standard Buna N O-ring is completely contained in a precision groove, to prevent O-ring extrusion at high pressure. The precision groove also provides a controlled squeeze for a vacuum-tight seal.

The chart lists pertinent dimensions useful with O-ring seal connectors and adapters.

Note:
When installing an O-ring port:

1. Hand-thread until the O-ring compresses on the port end.
2. Snug the fitting to the port with a wrench to completely compress the O-ring.
3. Always use a back-up wrench to hold the O-ring seal fitting body, when connecting or disconnecting a HOKE Gyrolok end.

To specify O-ring material, see page 6

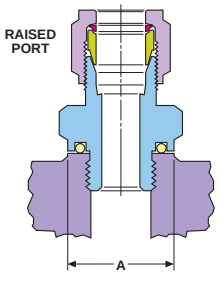


Fig. 1

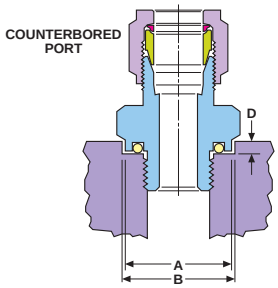


Fig. 2

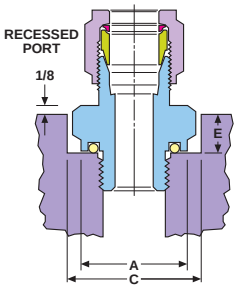


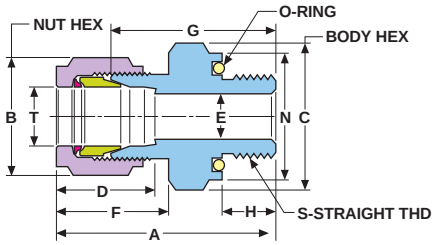
Fig. 3

Mounting Dimensions For O-ring Seal Connectors and Adapters

Straight Thread Size*	Pipe Thread Size**	Diameter A Min. Flat for Sealing	Diameter B Min. for Clearance (Fig. 2)	Diameter C Min. for Clearance (Fig. 3)	Depth D Max. (Fig. 2)	Depth E Max. for Adapter (Fig. 3)
5/16-24	—	1/2	9/16	21/32	3/32	3/32
3/8-24	—	17/32	21/32	3/4	3/32	1/8
7/16-20	—	11/16	25/32	7/8	3/32	5/32
1/2-20	—	3/4	29/32	1 1/32	3/32	11/64
9/16-18	—	13/16	31/32	1 3/32	3/32	11/64
3/4-16	—	1	1 5/32	1 5/16	3/32	7/32
7/8-14	—	1 7/32	1 11/32	1 17/32	3/32	5/16
1 1/16-12	—	1 13/32	1 17/32	1 3/4	3/32	11/32
1 5/16-12	—	1 11/16	1 25/32	2 1/32	3/32	7/16
—	1/8 NPT	11/16	25/32	7/8	3/32	9/64
—	1/4 NPT	13/16	31/32	1 3/32	3/32	11/64
—	3/8 NPT	1	1 5/32	1 5/16	3/32	3/16
—	1/2 NPT	1 7/32	1 11/32	1 17/32	3/32	5/16
—	3/4 NPT	1 13/32	1 17/32	1 3/4	3/32	3/8
—	1 NPT	1 11/16	1 25/32	2 1/32	3/32	27/64

Dimensions for reference only, subject to change.



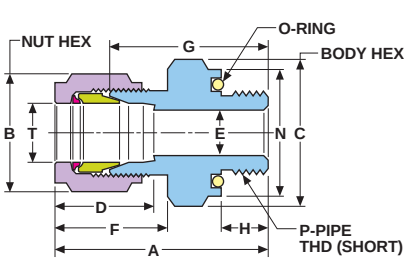


O-ring Straight Connector: COS

connects fractional tube to female straight thread

Part Number*	T Tube O.D.	S Thread Size	A	B Hex Flat	C Hex Flat	D	E min	F	G	H	N	O-ring I.D.	O-ring O.D.
					Dimensions — inches								
1COS[ ]	1/16	5/16-24	1.13	5/16	9/16	.41	.05	.48	.91	.34	.56	.31	.44
2COS[ ]	1/8	5/16-24	1.25	7/16	9/16	.56	.09	.67	1.03	.34	.56	.31	.44
3COS[ ]	3/16	3/8-24	1.41	1/2	5/8	.59	.13	.70	1.09	.38	.63	.38	.50
4COS[ ]	1/4	7/16-20	1.55	9/16	3/4	.64	.19	.77	1.22	.41	.75	.44	.63
6COS[ ]	3/8	9/16-18	1.72	11/16	15/16	.72	.30	.83	1.38	.47	.94	.56	.75
8COS6[ ]	1/2	9/16-18	1.88	7/8	15/16	.97	.30	.92	1.41	.47	.94	.58	.78
8COS[ ]	1/2	3/4-16	1.88	7/8	1 1/8	.97	.42	.92	1.41	.47	1.13	.75	.94
10COS[ ]	5/8	7/8-14	1.94	1	1 5/16	1	.50	.92	1.50	.47	1.31	.88	1.13
12COS[ ]	3/4	1 1/16-12	2.09	1 1/8	1 1/2	1	.66	.97	1.66	.56	1.50	1.06	1.31
14COS[ ]	7/8	1 1/16-12	2.09	1 1/4	1 1/2	1.06	.72	.97	1.66	.56	1.50	1.06	1.31
16COS[ ]	1	1 5/16-12	2.38	1 1/2	1 3/4	1.31	.88	1.08	1.81	.56	1.75	1.31	1.56





O-ring Male Connector: COM

connects fractional tube to female NPT threads

Part Number*	T Tube O.D.	P Pipe Thd.	A	B Hex Flat	C Hex Flat	D	E min	F	G	H	N	O-ring I.D.	O-ring O.D.
					Dimensions — inches								
1COM2[ ]	1/16	1/8	1.06	5/16	3/4	.41	.05	.48	.84	.28	.75	.44	.63
2COM2[ ]	1/8	1/8	1.34	7/16	3/4	.56	.09	.67	1.03	.28	.75	.44	.63
2COM4[ ]	1/8	1/4	1.47	7/16	15/16	.56	.09	.67	1.16	.38	.94	.56	.75
3COM2[ ]	3/16	1/8	1.38	1/2	3/4	.59	.13	.70	1.06	.28	.75	.44	.63
3COM4[ ]	3/16	1/4	1.50	1/2	15/16	.59	.13	.70	1.19	.38	.94	.56	.75
4COM2[ ]	1/4	1/8	1.42	9/16	3/4	.64	.19	.77	1.09	.28	.75	.44	.63
4COM4[ ]	1/4	1/4	1.55	9/16	15/16	.64	.19	.77	1.22	.38	.94	.56	.75
4COM6[ ]	1/4	3/8	1.61	9/16	1 1/8	.64	.19	.77	1.28	.41	1.13	.75	.94
6COM2[ ]	3/8	1/8	1.50	11/16	3/4	.72	.19	.83	1.16	.28	.75	.44	.63
6COM4[ ]	3/8	1/4	1.63	11/16	15/16	.72	.28	.83	1.28	.38	.94	.56	.75
6COM6[ ]	3/8	3/8	1.69	11/16	1 1/8	.72	.28	.83	1.34	.41	1.13	.75	.94
6COM8[ ]	3/8	1/2	1.91	11/16	1 5/16	.72	.28	.83	1.56	.53	1.31	.88	1.13
8COM4[ ]	1/2	1/4	1.75	7/8	15/16	.97	.28	.92	1.28	.38	.94	.56	.75
8COM6[ ]	1/2	3/8	1.81	7/8	1 1/8	.97	.41	.92	1.34	.41	1.13	.75	.94
8COM8[ ]	1/2	1/2	2.03	7/8	1 5/16	.97	.41	.92	1.56	.53	1.31	.88	1.13
10COM8[ ]	5/8	1/2	2	1	1 5/16	1	.50	.92	1.56	.53	1.31	.88	1.13
10COM12[ ]	5/8	3/4	2.09	1	1 1/2	1	.50	.92	1.66	.56	1.50	1.06	1.31
12COM8[ ]	3/4	1/2	2	1 1/8	1 5/16	1	.55	.97	1.56	.53	1.31	.88	1.13
12COM12[ ]	3/4	3/4	2.09	1 1/8	1 1/2	1	.63	.97	1.66	.56	1.50	1.06	1.31
16COM12[ ]	1	3/4	2.31	1 1/2	1 1/2	1.31	.63	1.08	1.75	.56	1.50	1.06	1.31
16COM16[ ]	1	1	2.38	1 1/2	1 3/4	1.31	.88	1.08	1.91	.66	1.75	1.31	1.56

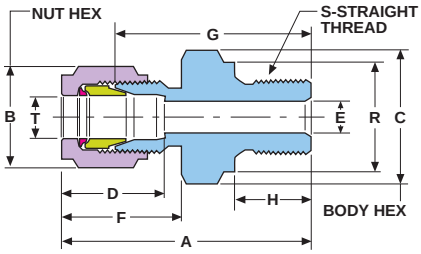
* [ ] see page 6 for material specifications.

Dimensions for reference only. Subject to change.

Male Connector: CM/EB

connects fractional tube with RP parallel threads

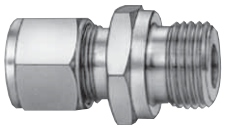


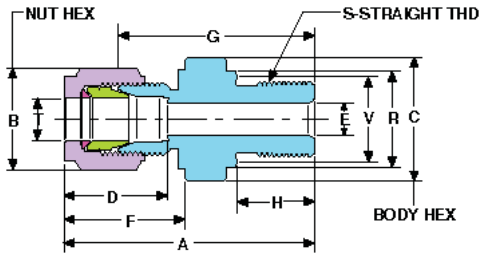


Part Number*	T Tube O.D.	S Thd. Size	Dimensions — inches A	B	C	D	E min.	F	G	H	R	V
2CM2[ ]EB	1/8	1/8	1.25	7/16	5/8	.56	.09	.67	.94	.31	.55	.52
2CM4[ ]EB	1/8	1/4	1.42	7/16	3/4	.56	.09	.67	1.11	.47	.70	.67
4CM2[ ]EB	1/4	1/8	1.34	9/16	5/8	.64	.19	.77	1.02	.31	.55	.52
4CM4[ ]EB	1/4	1/4	1.52	9/16	3/4	.64	.19	.77	1.19	.47	.70	.67
4CM6[ ]EB	1/4	3/8	1.55	9/16	15/16	.64	.19	.77	1.22	.47	.86	.83
4CM8[ ]EB	1/4	1/2	1.67	9/16	1 1/16	.64	.19	.77	1.34	.55	1.03	.98
6CM4[ ]EB	3/8	1/4	1.61	11/16	3/4	.72	.27	.83	1.23	.47	.70	.67
6CM6[ ]EB	3/8	3/8	1.64	11/16	15/16	.72	.27	.83	1.27	.47	.86	.83

Male Connector: CM/MB

connects metric tube with RP parallel threads





Part Number*	T Tube O.D.	S Straight Thd.	Dimensions—mm A	B Hex Flat	C Hex Flat	D	E min.	F	G	H	R	V
3CM2[ ]MB	3	1/8	32.8	11.1	14.3	14.3	2.2	17.1	24.9	8.0	14.0	13.0
3CM4[ ]MB	3	1/4	37.2	11.1	19.1	14.3	2.2	17.1	29.2	12.0	18.0	17.0
6CM2[ ]MB	6	1/8	35.8	14.3	14.3	16.3	3.8	19.5	27.4	8.0	14.0	13.0
6CM4[ ]MB	6	1/4	40.1	14.3	19.1	16.3	3.8	19.5	31.8	12.0	18.0	17.0
6CM6[ ]MB	6	3/8	40.1	14.3	22.2	16.3	3.8	19.5	31.8	12.0	22.0	21.0
6CM8[ ]MB	6	1/2	43.4	14.3	27.0	16.3	3.8	19.5	35.1	14.0	26.0	25.0
8CM2[ ]MB	8	1/8	34.7	15.9	14.3	16.7	4.6	19.1	26.7	8.0	14.0	13.0
8CM4[ ]MB	8	1/4	39.5	15.9	19.1	16.7	5.8	19.1	31.5	12.0	18.0	17.0
8CM6[ ]MB	8	3/8	40.5	15.9	22.0	16.7	5.8	19.1	32.5	12.0	22.0	21.0
8CM8[ ]MB	8	1/2	43.1	15.9	27.0	16.7	5.8	19.1	35.1	14.0	26.0	25.0
8CM12[ ]MB	8	3/4	45.0.	15.9	33.5	16.7	6.0	19.1	37.0	12.0	32.0	30.0
10CM2[ ]MB	10	1/8	36.9	19.1	17.5	17.5	4.6	19.8	29.0	8.0	14.0	13.0
10CM4[ ]MB	10	1/4	41.0	19.1	19.1	17.5	5.8	19.8	33.0	12.0	18.0	17.0
10CM6[ ]MB	10	3/8	41.5	19.1	24.0	17.5	7.4	19.8	33.5	12.0	22.0	21.0
10CM8[ ]MB	10	1/2	44.1	19.1	27.0	17.5	7.9	19.8	36.1	14.0	26.0	25.0
12CM4[ ]MB	12	1/4	44.5	22.2	22.2	24.6	7.0	23.4	32.5	12.0	18.0	17.0
12CM6[ ]MB	12	3/8	45.0	22.2	24.0	24.6	10.0	23.4	33.0	12.0	22.0	21.0
12CM8[ ]MB	12	1/2	47.5	22.2	27.0	24.6	9.9	23.4	35.6	14.0	26.0	25.0
12CM12[ ]MB	12	3/4	49.5	22.2	33.3	24.6	9.9	23.4	37.6	16.0	32.0	30.0
14CM4[ ]MB	14	1/4	41.9	23.8	22.2	22.2	7.0	21.0	32.5	12.0	18.0	17.0
14CM6[ ]MB	14	3/8	42.4	23.8	.22.2	22.2	9.9	21.0	33.0	12.0	22.0	21.0
14CM8[ ]MB	14	1/2	45.2	23.8	27.0	22.2	11.9	21.0	35.8	14.0	26.0	25.0
15CM8[ ]MB	15	1/2	46.6	23.8	27.0	22.2	12.7	21.8	36.3	14.0	26.0	25.0
16CM6[ ]MB	16	3/8	44.9	25.4	23.8	25.0	9.9	23.4	33.8	12.0	22.0	21.0
16CM8[ ]MB	16	1/2	47.5	25.4	27.0	25.0	12.7	23.4	36.3	14.0	26.0	25.0
16CM12[ ]MB	16	3/4	49.5	25.4	33.3	25.0	12.7	23.4	38.4	16.0	32.0	30.0
18CM8[ ]MB	18	1/2	47.3	28.6	27.0	25.4	12.7	24.6	37.3	14.0	26.0	25.0
18CM12[ ]MB	18	3/4	49.1	28.6	33.3	25.4	15.8	24.6	37.1	16.0	32.0	30.0
20CM8[ ]MB	20	1/2	52.5	31.8	30.2	31.0	11.9	27.0	38.6	14.0	26.0	25.0
22CM8[ ]MB	22	1/2	50.6	31.8	30.2	27.0	12.6	24.6	39.4	14.0	26.0	25.0
22CM12[ ]MB	22	3/4	52.6	31.8	33.3	27.0	17.9	24.6	41.4	16.0	32.0	30.0
22CM16[ ]MB	22	1	54.6	31.8	41.3	27.0	17.9	24.6	43.4	18.0	39.0	37.0
25CM12[ ]MB	25	3/4	59.9	38.1	34.9	33.3	18.1	27.4	45.5	16.0	32.0	30.0
25CM16[ ]MB	25	1	57.6	38.1	41.3	33.3	21.7	27.4	43.2	18.0	39.0	37.0

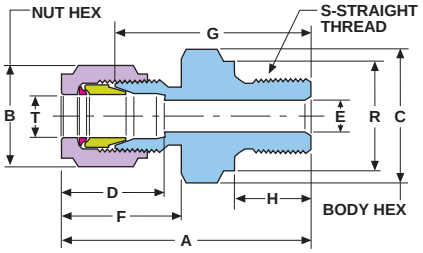
RP parallel thread ends are typically used with a flat gasket to seal.

* [ ] see page 6 for material specifications.

Male Connector: CM/EA

connects fractional tube with RS parallel threads

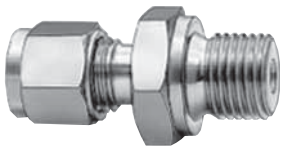


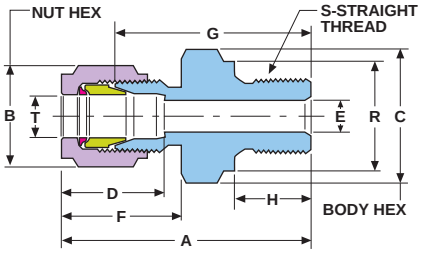


Part Number*	T Tube O.D.	S Thd. Size	Dimensions — inches A	B	C	D	E min	F	G	H	R
2CM2[ ]EA	1/8	1/8	1.19	7/16	9/16	.56	.09	.67	.72	.31	.55
2CM4[ ]EA	1/8	1/4	1.41	7/16	3/4	.56	.09	.67	1.09	.47	.70
2CM6[ ]EA	1/8	3/8	1.47	7/16	7/8	.56	.09	.67	1.16	.47	.86
4CM2[ ]EA	1/4	1/8	1.30	9/16	9/16	.64	.19	.77	.97	.31	.55
4CM4[ ]EA	1/4	1/4	1.48	9/16	3/4	.64	.19	.77	1.16	.47	.70
4CM6[ ]EA	1/4	3/8	1.55	9/16	7/8	.64	.19	.77	1.22	.47	.86
4MC8[ ]EA	1/4	1/2	1.67	9/16	1 1/16	.64	.19	.77	1.34	.55	1.03
6CM4[ ]EA	3/8	1/4	1.61	11/16	3/4	.72	.30	.83	1.25	.47	.70
6CM6[ ]EA	3/8	3/8	1.61	11/16	7/8	.72	.30	.83	1.25	.47	.86
6CM8[ ]EA	3/8	1/2	1.73	11/16	1 1/16	.72	.30	.83	1.38	.55	1.03
8CM4[ ]EA	1/2	1/4	1.75	7/8	13/16	.97	.23	.92	1.25	.47	.70
8CM6[ ]EA	1/2	3/8	1.75	7/8	7/8	.97	.23	.92	1.25	.47	.86
8CM8[ ]EA	1/2	1/2	1.72	7/8	1 1/16	.97	.23	.92	1.38	.55	1.03
12CM8[ ]EA	3/4	1/2	1.88	1 1/8	1 1/16	1	.39	.97	1.50	.55	1.03
12CM12[ ]EA	3/4	3/4	1.92	1 1/8	1 5/16	1	.39	.97	1.48	.63	1.27
16CM8[ ]EA	1	1/2	2	1 1/2	1 3/8	1.31	.47	1.08	1.44	.55	1.03
16CM16[ ]EA	1	1	2.23	1 1/2	1 5/8	1.31	.70	1.08	1.67	.70	1.53

Male Connector: CM/MA

connects metric tube with RS parallel threads





Part Number*	T Tube Size	S Thd. Size	Dimensions — mm A	B Hex Flat	C Hex Flat	D	E min	F	G	H	R
3CM2[ ]MA	3	1/8	32.8	11.1	14.3	14.3	2.2	17.1	24.9	8.0	14.0
3CM4[ ]MA	3	1/4	37.2	11.1	19.1	14.3	2.2	17.1	29.2	12.0	18.0
6CM2[ ]MA	6	1/8	35.8	14.3	14.3	16.3	3.8	19.5	27.4	8.0	14.0
6CM4[ ]MA	6	1/4	40.1	14.3	19.1	16.3	3.8	19.5	31.8	12.0	18.0
6CM6[ ]MA	6	3/8	40.1	14.3	22.2	16.3	3.8	19.5	31.8	12.0	22.0
6CM8[ ]MA	6	1/2	43.4	14.3	27.0	16.3	3.8	19.5	35.1	14.0	26.0
8CM2[ ]MA	8	1/8	34.7	15.9	14.3	16.7	5.8	19.1	26.7	8.0	14.0
8CM4[ ]MA	8	1/4	39.5	15.9	19.1	16.7	5.8	19.1	31.5	12.0	18.0
8CM6[ ]MA	8	3/8	43.0	15.9	22.0	16.7	5.8	19.1	35.0	12.0	22.0
8CM8[ ]MA	8	1/2	43.1	15.9	27.0	16.7	5.8	19.1	35.0	14.0	26.0
8CM12[ ]MA	8	3/4	48.0	15.9	33.0	16.7	6.5	19.1	38.0	12.0	32.0
10CM2[ ]MA	10	1/8	37.0	19.1	17.5	17.5	4.6	19.8	29.0	8.0	14.0
10CM4[ ]MA	10	1/4	41.0	19.1	19.0	17.5	5.8	19.8	33.0	12.0	18.0
10CM6[ ]MA	10	3/8	44.0	19.1	22.0	17.5	6.0	19.8	36.0	12.0	22.0
10CM8[ ]MA	10	1/2	44.1	19.1	27.0	17.5	7.9	19.8	36.1	14.0	26.0
12CM4[ ]MA	12	1/4	44.5	22.2	22.2	24.6	5.8	23.4	32.5	12.0	18.0
12CM6[ ]MA	12	3/8	47.5	22.2	22.0	24.6	6.0	23.4	35.5	12.0	22.0
12CM8[ ]MA	12	1/2	47.5	22.2	27.0	24.6	9.9	23.4	35.6	14.0	26.0
12CM12[ ]MA	12	3/4	49.5	22.2	33.3	24.6	9.9	23.4	37.6	16.0	33.0
14CM4[ ]MA	14	1/4	41.9	23.8	22.2	22.2	5.8	21.0	32.5	12.0	18.0
14CM6[ ]MA	14	3/8	42.4	23.8	.22.2	22.2	7.8	21.0	33.0	12.0	22.0
14CM8[ ]MA	14	1/2	45.2	23.8	27.0	22.2	11.9	21.0	35.8	14.0	26.0
15CM8[ ]MA	15	1/2	46.6	23.8	27.0	22.2	12.7	21.8	36.3	14.0	26.0
16CM6[ ]MA	16	3/8	45.0	25.4	23.8	25.0	7.8	23.4	33.8	12.0	22.0
16CM8[ ]MA	16	1/2	47.5	25.4	27.0	25.0	12.7	23.4	36.3	14.0	26.0
16CM12[ ]MA	16	3/4	49.5	25.4	33.3	25.0	12.7	23.4	38.4	16.0	32.0
18CM8[ ]MA	18	1/2	47.3	28.6	27.0	25.4	11.4	24.6	37.3	14.0	26.0
18CM12[ ]MA	18	3/4	49.1	28.6	33.3	25.4	15.3	24.6	39.1	16.0	32.0
20CM8[ ]MA	20	1/2	52.5	31.8	30.2	31.0	11.9	27.0	38.6	14.0	26.0
22CM8[ ]MA	22	1/2	50.6	31.8	30.2	27.0	11.4	24.6	39.4	14.0	26.0
22CM12[ ]MA	22	3/4	52.6	31.8	33.3	27.0	15.8	24.6	41.4	16.0	32.0
22CM16[ ]MA	22	1	54.6	31.8	41.3	27.0	17.9	24.6	43.4	18.0	39.0
25CM12[ ]MA	25	3/4	59.9	38.1	34.9	33.3	17.9	27.4	45.5	16.0	32.0
25CM16[ ]MA	25	1	57.6	38.1	41.3	33.3	17.9	27.4	43.2	18.0	39.0

RS parallel thread ends are typically used with a gasket having a bonded elastomer seal. RP-type gaskets may also be used.

* [ ] see page 6 for material specifications.

Dimensions for reference only. Subject to change.