

200 Series / H200 Series

Cracking Pressure

Minimum cracking pressure available: 0.1 psig

Standard cracking pressure: see page 7

Maximum cracking pressure available: 25 psig

Note: Cracking pressure is defined at which flow is 5cc/min except for 220 Series for which flow is approximately 0.02 cfm. When ordering a cracking pressure within the standard range or below the standard range of the cracking pressure, the dash number is a "maximum". Example: 259A-4TT-.3 (cracking pressure tolerance will be +0%, -50%). When ordering a cracking pressure equal to or greater than the upper limit of the standard cracking pressure shown above, cracking pressure tolerance will be ±10%. Example: 259A-4TT-5. Cracking pressure over 8 psig should not be specified without consulting the factory. Where 200 Series valves are supplied with higher cracking pressures, a shroud ring may be used to confine the o-ring.

Note: Reseat pressure is the back pressure required to seal a check valve. It varies with different springs and seals. Reseat pressure is not specified unless called out on the sales order.

Leakage

External: Zero

Internal:

Elastomeric seals: Zero

Teflon® seals: 0-50 psig = 5cc/min max.
50+ psig = 0.5cc/min max.

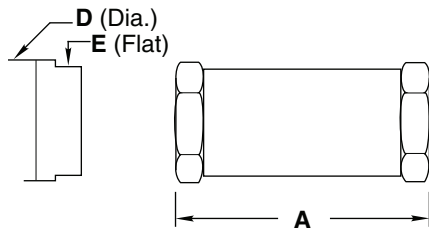
Operating Pressure: 200 Series

Aluminum (A)	Tube	3/16"-1 1/2"	0-3000 psig to 200° F
	Pipe	1/8"-1 1/2"	0-3000 psig to 200° F
Brass	Tube	3/16"-1 1/2"	0-3000 psig to 300° F
	Pipe	1/8"-1 1/2"	0-3000 psig to 300° F
	Pipe	2"	0-1500 psig to 300° F
Steel	Tube	3/16"-1 1/2"	0-3000 psig to 300° F
	Pipe	1/8"-2"	0-3000 psig to 300° F
Stainless steel	Tube	3/16"-1 1/2"	0-3000 psig to 450° F
	Pipe	1/8"-2"	0-3000 psig to 450° F

Operating Pressure: H200 Series

Aluminum (A)	Tube	3/16"-1 1/4"	0-6000 psig to 200° F
	Pipe	1/8"-1 1/2"	0-6000 psig to 200° F
Brass	Tube	3/16"-1 1/4"	0-5000 psig to 300° F
	Pipe	1/8"-1 1/2"	0-5000 psig to 300° F
Steel	Tube	3/16"-1 1/4"	0-5000 psig to 300° F
	Pipe	1/8"-2"	0-5000 psig to 300° F
Stainless steel	Tube	3/16"-2"	0-6000 psig to 450° F
	Pipe	1/8"-2"	0-6000 psig to 450° F

End Connections, Dimensions (Inches) & Weights



Optional
(Based on availability)

-RR, -BB: Female Tube

Dash No.	Tube Size	A ±0.050	C Hex & Rd.	Opt. Dimensions		Weights (Lbs)	
				D	E	Alum.	All Steel
-4BB	1/4"	1.98	0.75	—	—	0.06	0.16
-5BB	5/16"	2.07*	0.81	—	—	0.08	0.22
-6BB	3/8"	2.44	0.81	—	—	0.08	0.22
-8BB	1/2"	3.06	1.00	—	—	0.13	0.37
-10BB	5/8"	3.42	1.12	—	—	0.18	0.50
-12BB	3/4"	3.83	1.50	1.75	1.50	0.34	0.88
-16BB	1"	4.37	1.75	2.00	1.75	0.52	1.50
-20BB	1 1/4"	4.99	2.00	2.25	2.00	0.68	2.18
-24BB	1 1/2"	5.75	2.75	2.75	2.25	2.05	5.95

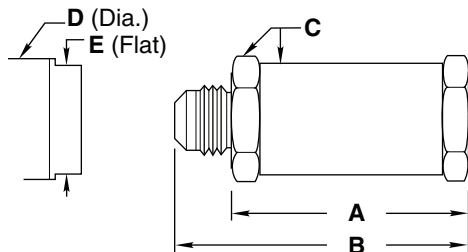
* Exception: 200T-5BB, 'A' dimension is 2.44

-BT: Female Tube to Male Tube

-TB: Male Tube to Female Tube

Dash No.	Tube Size	A ±0.050	B Ref.	C Hex & Rd.	Opt. Dimensions		Weights (Lbs)	
					D	E	Alum.	All Steel
-4BT	1/4"	1.53	2.08	0.75	—	—	0.06	0.15
-6BT	3/8"	1.98	2.54	0.81	—	—	0.08	0.21
-8BT	1/2"	2.37	3.03	1.00	—	—	0.12	0.34
-12BT	3/4"	3.00	3.86	1.50	1.75	1.50	0.32	0.96
-16BT	1"	3.50	4.41	1.75	2.00	1.75	0.50	1.46
-20BT	1 1/4"	3.97	4.93	2.00	2.25	2.00	0.68	1.90
-24BT	1 1/2"	4.73	5.81	2.75	2.75	2.25	1.82	5.31

Dash No.	Tube Size	A ±0.050	B Ref.	C Hex & Rd.	Opt. Dimensions		Weights (Lbs)	
					D	E	Alum.	All Steel
-4TB	1/4"	1.98	2.53	0.75	—	—	0.07	0.20
-5TB	5/16"	1.98	2.53	0.81	—	—	0.07	0.20
-6TB	3/8"	1.98	2.54	0.81	—	—	0.08	0.21
-8TB	1/2"	2.49	3.15	1.00	—	—	0.14	0.37
-10TB	5/8"	2.80	3.56	1.12	—	—	0.18	0.50
-12TB	3/4"	3.33	4.19	1.50	1.75	1.50	0.37	1.07
-16TB	1"	3.74	4.65	1.75	2.00	1.75	0.55	1.60
-20TB	1 1/4"	4.39	5.35	2.00	2.25	2.00	0.80	2.30
-24TB	1 1/2"	5.06	6.14	2.75	2.75	2.25	2.03	5.90

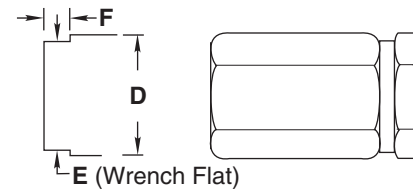


Optional
(Based on availability)

200 Series / H200 Series

H200 Series

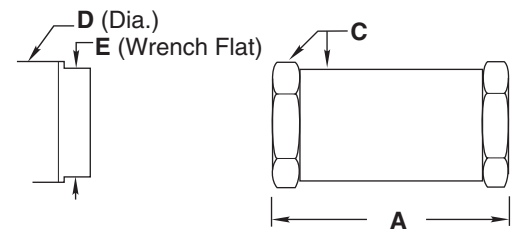
End Connection	Alum.	Brass	St. Steel	Steel		
	(Stock Size Hex)			D Dia.	E	F ± 0.015
-3T / -3C	0.625	0.625	0.625	0.650	0.560	0.220
-4T / -4B	0.875	0.875	0.812	0.875	0.750	0.280
-1P/-5T, -6T, -6B	0.937	0.937	0.875	0.960	0.813	0.280
-2P/-8T, -8B	1.125	1.250	1.125	1.250	1.000	0.300
-3P/-10T, -10B	1.375	1.375	1.250	1.375	1.125	0.350
-4P/-12T, -12B	1.750	1.875	1.750	1.875	1.625	0.450
-6P/-16T, -16B	2.000	2.250	2.000	2.125	1.875	0.500
-8P/-20T, -20B	2.250	2.500	2.250	2.50	2.125	0.620



Optional
(Based on availability)

-PP: Female Pipe

Dash No.	Tube Size	A ±0.050	B Ref.	C Hex & Rd.	Opt. Dimensions		Weights (Lbs)	
					D	E	Alum.	All Steel
-1PP	1/8"	1.70	0.81	—	—	0.05	0.15	0.14
-2PP	1/4"	2.25	1.00	—	—	0.12	0.36	0.34
-3PP	3/8"	2.43	1.12	—	—	0.15	0.46	0.43
-4PP	1/2"	2.93	1.50	1.50	1.25	0.32	0.98	0.92
-6PP	3/4"	3.37	1.75	1.75	1.50	0.49	1.50	1.41
-8PP	1"	3.99	2.00	2.00	1.75	0.73	2.25	2.11
-10PP	1 1/4"	4.50	2.75	2.75	2.25	1.60	5.00	4.80
-12PP	1 1/2"	5.35	2.75	2.75	2.25	1.73	5.34	4.97
-16PP	2"	6.10	—	3.50	2.75	2.60	8.00	7.50

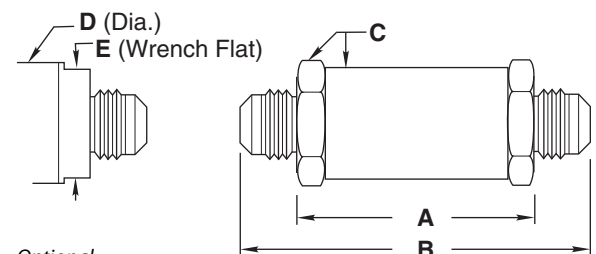


Optional
(Based on availability)

-TT: Female Tube

Dash No.	Tube Size	A ±0.050	B Ref.	C Hex & Rd.	Opt. Dimensions		Weights (Lbs)	
					D	E	Alum.	All Steel
-3TT	3/16"	0.97*	1.93*	0.56*	—	—	0.03	0.08
-4TT	1/4"	1.53	2.63	0.75	—	—	0.07	0.18
-5TT	5/16"	1.53	2.63	0.81	—	—	0.07	0.20
-6TT	3/8"	1.53	2.63	0.81	—	—	0.07	0.20
-8TT	1/2"	1.81	3.12	1.00	—	—	0.13	0.35
-10TT	5/8"	2.06	3.58	1.12	—	—	0.18	0.49
-12TT	3/4"	2.50	4.23	1.50	1.75	1.50	0.35	1.00
-16TT	1"	2.87	4.69	1.75	2.00	1.75	0.53	1.50
-20TT	1 1/4"	3.37	5.29	2.00	2.25	2.00	0.79	2.30
-24TT	1 1/2"	4.04	6.21	2.75	2.75	2.25	1.80	5.22

Exception: 200T-3TT: 'A' dimension is 1.00, 'B' dimension is 1.96, 'C' dimension is 0.625



Optional
(Based on availability)