

Welcome to Sanitube™, the leading manufacturer of sanitary-grade stainless steel tube, valves, and fittings. Sanitube products are precision engineered to meet 3A specifications and to withstand the most challenging operating environments in the food, dairy, beverage, cosmetic, pharmaceutical, and industrial markets. Sanitube's Central Florida campus spans five buildings comprising over 100,000 square feet of enclosed production and warehousing space in Lakeland, Florida, and our Kansas City facility provides an additional 25,000 square feet of warehouse space for faster transit times to the Midwest and West Coast. Our growth is driven by our commitment to providing superior product availability, service, and quality to our customers. Offering comprehensive solutions ranging from butterfly and ball valve automation to custom fitting fabrication and polishing, Sanitube provides distributors with a single source for not only standard sanitary tubing, valves, and fittings, but also made-to-order spool pieces, unique fitting configurations, cut to length tubing, as well as polished industrial pipe.

Utilization of modern, technologically advanced welding and fabrication equipment allows Sanitube to manufacture the highest quality sanitary fittings available, with efficiency unmatched by competitors. Higher efficiency allows for superior product availability, traceability, quality, pricing, and one of the lowest lead times in the industry. Every Sanitube product is manufactured in accordance with strict quality control procedures, and all Sanitube products are backed by our limited warranty.

In addition to reviewing this catalog, we urge you to log on to our website: **www.sanitube.us**. There you can access additional product specifications and other useful information.

Sanitube's product lines are constantly expanding, so be sure to check our website often for new items and sizes. If you can't find what you're looking for, just give us a call toll-free at 855-300-TUBE (8823). Knowledgeable Sanitube representatives are standing by to assist you.

Thank you for your interest in Sanitube. We look forward to serving all of your sanitary stainless steel tube, valve, and fittings needs.



Todd Adams
President
Sanitube

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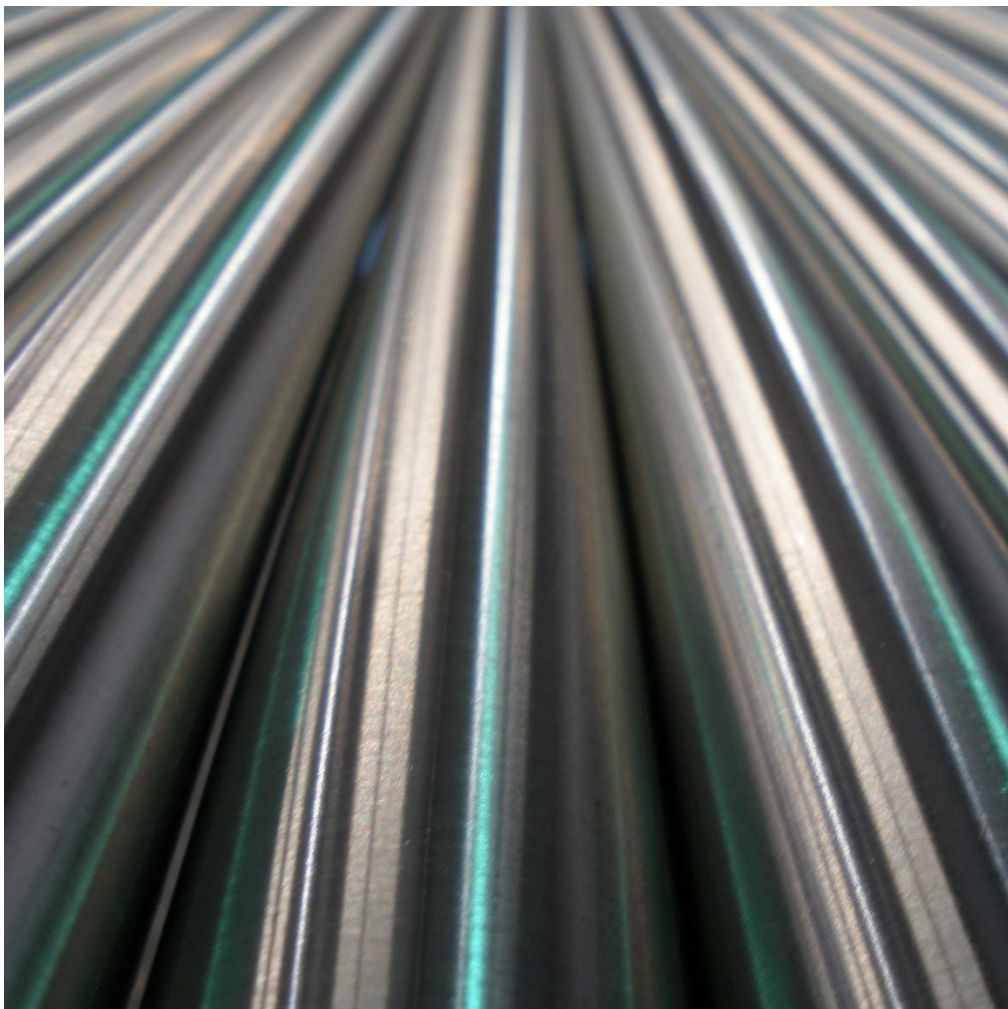
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Polished Tubing
General Service Tubing
Polished Pipe



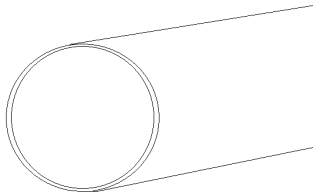
Tubing

Polished ID and OD Sanitary Tube (ASTM A270)



Product Overview

Sanitube's polished tube is manufactured in accordance with ASTM A270 and 3A sanitary standards. Our tubing is made from cold rolled stainless steel strip whose chemical elements are specially controlled to enhance weldability. The weld bead is cold-worked to a full finished condition, resulting in a virtually undetectable longitudinal weld. Annealing in a controlled atmosphere follows to preserve maximum structural integrity. The tubes are then mechanically polished to a 180 grit (20 μ -in. Ra maximum) interior and 150 grit (32 μ -in. Ra maximum) exterior finish via Sanitube's state-of-the-art process. Tubes are then line-stenciled with OD, wall, ASTM specifications, grade, and heat number.



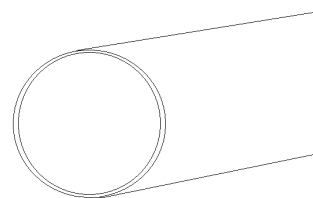
Size (Tube OD)	Part Number		Dimensions		
	304L	316L	Wall	ID	Gauge
1/2"	A270P-4050	A270P-6050	0.065	0.370	16
3/4"	A270P-4075	A270P-6075	0.065	0.620	16
1 "	A270P-4100	A270P-6100	0.065	0.870	16
1-1/2"	A270P-4150	A270P-6150	0.065	1.370	16
2 "	A270P-4200	A270P-6200	0.065	1.870	16
2 "	A270P-4201	A270P-6201	0.120	1.760	11
2-1/2"	A270P-4250	A270P-6250	0.065	2.370	16
3 "	A270P-4300	A270P-6300	0.065	2.870	16
3 "	A270P-4301	A270P-6301	0.120	2.760	11
4 "	A270P-4403	--	0.065	3.870	16
4 "	A270P-4400	A270P-6400	0.083	3.834	14
3 "	A270P-4301	A270P-6301	0.120	2.760	11
5 "	A270P-4500	A270P-6500	0.083	4.834	14
6 "	A270P-4600	--	0.083	5.834	14
6 "	A270P-4601	A270P-6601	0.109	5.782	12
8 "	A270P-4801	A270P-6801	0.109	7.782	12

Notes:

- ID or OD only polish and custom finishes up to 15Ra (mechanical) available.
- Call Sanitube Sales for full freight allowance details.

General Service Bright Annealed Tube (ASTM A249/A269)

Size (Tube OD)	Part Number		Dimensions		
	304L	316L	Wall	ID	Gauge
1 "	A269-4100	A269-6100	0.065	0.870	16
1-1/2"	A269-4150	A269-6150	0.065	1.370	16
2 "	A269-4200	A269-6200	0.065	1.870	16
2-1/2"	A269-4250	A269-6250	0.065	2.370	16
3 "	A269-4300	A269-6300	0.065	2.870	16
4 "	A269-4403	--	0.065	3.870	16
4 "	A269-4400	A269-6400	0.083	3.834	14
5 "	A269-4500	A269-6500	0.083	4.834	14
6 "	A269-4600	A269-6600	0.083	5.834	14
6 "	A269-4601	A269-6601	0.109	5.782	12
8 "	A269-4801	A269-6801	0.109	7.782	12

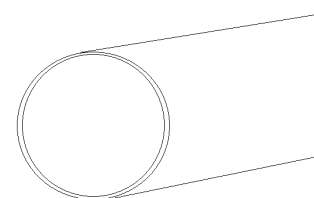


Additional Tube Specifications

Size (Tube OD)	Grade		Dimensions		Weight per Foot (LBS)	Burst Pressure (PSI)
	T304L	T316L	Wall	Gauge		
1/2"		✓	0.065	16	0.30	10,833
3/4"		✓	0.065	16	0.48	8,666
1 "	✓	✓	0.065	16	0.66	9,750
1-1/2"	✓	✓	0.065	16	1.00	6,503
2 "	✓	✓	0.065	16	1.35	4,875
2-1/2"	✓	✓	0.065	16	1.70	3,900
3 "	✓	✓	0.065	16	2.05	3,248
4 "	✓		0.065	16	2.80	2,187
4 "	✓	✓	0.083	14	3.50	2,730
5 "	✓	✓	0.083	14	4.40	2,184
6 "	✓		0.083	14	5.29	1,820
6 "	✓	✓	0.109	12	6.92	2,543
8 "	✓	✓	0.109	12	9.27	1,907

Notes:

- Working Pressure is 1/4 of Burst Pressure in temperatures ranging from -20°F to 100°F.
- The ASME code suggests a safety factor of four (e.g. 1" x 0.065 = 2,438 PSI).
- The information presented above are typical or average values and are not a guarantee of maximum or minimum

**Polished Welded Pipe
(ASTM A312)**


Size (NPS)	Part Number			
	Schedule 10		Schedule 40	
	304L	316L	304L	316L
1/2"	A312P1-4050	A312P1-6050	A312P4-4050	A312P4-6050
3/4"	A312P1-4075	A312P1-6075	A312P4-4075	A312P4-6075
1 "	A312P1-4100	A312P1-6100	A312P4-4100	A312P4-6100
1-1/4"	A312P1-4125	A312P1-6125	A312P4-4125	A312P4-6125
1-1/2"	A312P1-4150	A312P1-6150	A312P4-4150	A312P4-6150
2 "	A312P1-4200	A312P1-6200	A312P4-4200	A312P4-6200
2-1/2"	A312P1-4250	A312P1-6250	A312P4-4250	A312P4-6250
3 "	A312P1-4300	A312P1-6300	A312P4-4300	A312P4-6300
4 "	A312P1-4400	A312P1-6400	A312P4-4400	A312P4-6400
6 "	A312P1-4600	A312P1-6600	A312P4-4600	A312P4-6600
8 "	A312P1-4800	A312P1-6800	A312P4-4800	A312P4-6800

Notes:

- Polished Pipe available in 20 foot lengths only.
- Polished Pipe offered with 180, 240, or 320 grit finish according to customer requirements.
- OD/ID Polishing available.
- Polished A403 weld fittings available. Inquire with your Sanitube sales representative.
- Polished Pipe is polysleeved and tri-wall boxed for shipment.
- Polished Pipe only ships via truck.
- We are unable to accept returned pipe.

Tube OD Weld Fittings

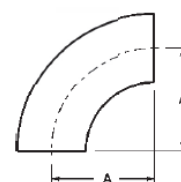


Butt Weld Fittings

Polished 90° Elbows

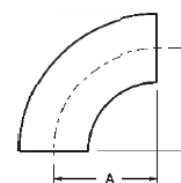


Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	Wall
1/2"	2WC4P-050	2WC6P-050	1.125	0.065
3/4"	2WC4P-075	2WC6P-075	1.125	0.065
1 "	2WC4P-100	2WC6P-100	1.500	0.065
1-1/2"	2WC4P-150	2WC6P-150	2.250	0.065
2 "	2WC4P-200	2WC6P-200	3.000	0.065
2-1/2"	2WC4P-250	2WC6P-250	3.750	0.065
3 "	2WC4P-300	2WC6P-300	4.500	0.065
4 "	2WC4P-400	2WC6P-400	6.000	0.083
6 "	2WC4P-600	2WC6P-600	9.000	0.109
8 "	2WC4P-800	2WC6P-800	12.000	0.109



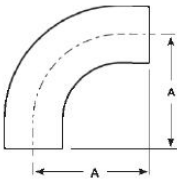
Unpolished 90° Elbows

Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	Wall
1/2"	2WC4U-050	2WC6U-050	1.125	0.065
3/4"	2WC4U-075	2WC6U-075	1.125	0.065
1 "	2WC4U-100	2WC6U-100	1.500	0.065
1-1/4"	2WC4U-125	2WC6U-125	1.875	0.065
1-1/2"	2WC4U-150	2WC6U-150	2.250	0.065
2 "	2WC4U-200	2WC6U-200	3.000	0.065
2-1/2"	2WC4U-250	2WC6U-250	3.750	0.065
3 "	2WC4U-300	2WC6U-300	4.500	0.065
4 "	2WC4U-400	2WC6U-400	6.000	0.083
5 "	2WC4U-500	2WC6U-500	7.500	0.083
6 "	2WC4U-600	2WC6U-600	9.000	0.109
8 "	2WC4U-800	2WC6U-800	12.000	0.109



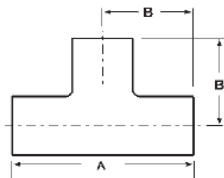
Butt Weld Fittings

Polished 90° Elbows with Tangents



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	Wall
1/2"	L2S4P-050	L2S6P-050	3.000	0.065
3/4"	L2S4P-075	L2S6P-075	3.000	0.065
1 "	L2S4P-100	L2S6P-100	2.062	0.065
1-1/2"	L2S4P-150	L2S6P-150	2.937	0.065
2 "	L2S4P-200	L2S6P-200	4.062	0.065
2-1/2"	L2S4P-250	L2S6P-250	5.187	0.065
3 "	L2S4P-300	L2S6P-300	6.312	0.065
4 "	L2S4P-400	L2S6P-400	8.312	0.083
6 "	L2S4P-600	L2S6P-600	11.250	0.109

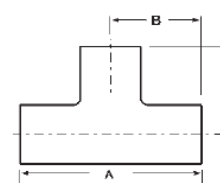
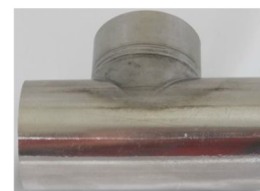
Polished Short Tees



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1/2"	7WS4P-050	7WS6P-050	1.500	0.750	0.065
3/4"	7WS4P-075	7WS6P-075	2.750	1.375	0.065
1 "	7WS4P-100	7WS6P-100	2.250	1.125	0.065
1-1/2"	7WS4P-150	7WS6P-150	3.312	1.656	0.065
2 "	7WS4P-200	7WS6P-200	4.124	2.062	0.065
2-1/2"	7WS4P-250	7WS6P-250	4.688	2.344	0.065
3 "	7WS4P-300	7WS6P-300	5.188	2.594	0.065
4 "	7WS4P-400	7WS6P-400	6.876	3.438	0.083
6 "	7WS4P-600	7WS6P-600	11.250	5.625	0.109
8 "	7WS4P-800	7WS6P-800	14.000	7.000	0.109

Unpolished Short Tees

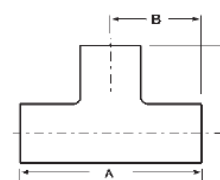
Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1/2"	7WS4U-050	7WS6U-050	1.500	0.750	0.065
3/4"	7WS4U-075	7WS6U-075	2.750	1.375	0.065
1 "	7WS4U-100	7WS6U-100	2.250	1.125	0.065
1-1/2"	7WS4U-150	7WS6U-150	3.312	1.656	0.065
2 "	7WS4U-200	7WS6U-200	4.124	2.062	0.065
2-1/2"	7WS4U-250	7WS6U-250	4.688	2.344	0.065
3 "	7WS4U-300	7WS6U-300	5.188	2.594	0.065
4 "	7WS4U-400	7WS6U-400	6.876	3.438	0.083



Polished Long Tees

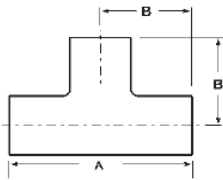


Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1/2"	7WL4P-050	7WL6P-050	3.750	1.875	0.065
3/4"	7WL4P-075	7WL6P-075	3.750	1.875	0.065
1 "	7WL4P-100	7WL6P-100	3.750	1.875	0.065
1-1/2"	7WL4P-150	7WL6P-150	4.500	2.250	0.065
2 "	7WL4P-200	7WL6P-200	6.000	3.000	0.065
2-1/2"	7WL4P-250	7WL6P-250	6.000	3.000	0.065
3 "	7WL4P-300	7WL6P-300	6.500	3.250	0.065
4 "	7WL4P-400	7WL6P-400	7.750	3.875	0.083
6 "	7WL4P-600	7WL6P-600	11.250	5.625	0.109
8 "	7WL4P-800	7WL6P-800	14.000	7.000	0.109



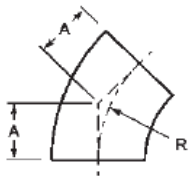
Butt Weld Fittings

Unpolished Tees



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1/2"	7WL4U-050	7WL6U-050	3.750	1.875	0.065
3/4"	7WL4U-075	7WL6U-075	3.750	1.875	0.065
1 "	7WL4U-100	7WL6U-100	3.750	1.875	0.065
1-1/2"	7WL4U-150	7WL6U-150	4.500	2.250	0.065
2 "	7WL4U-200	7WL6U-200	6.000	3.000	0.065
2-1/2"	7WL4U-250	7WL6U-250	6.000	3.000	0.065
3 "	7WL4U-300	7WL6U-300	6.500	3.250	0.065
4 "	7WL4U-400	7WL6U-400	7.750	3.875	0.083
6 "	7WL4U-600	7WL6U-600	11.250	5.625	0.109
8 "	7WL4U-800	7WL6U-800	14.000	7.000	0.109

Polished 45° Elbows

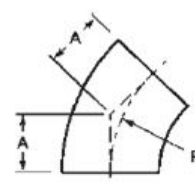


Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	R	Wall
1/2"	2WK4P-050	2WK6P-050	0.466	1.125	0.065
3/4"	2WK4P-075	2WK6P-075	0.466	1.125	0.065
1 "	2WK4P-100	2WK6P-100	0.625	1.500	0.065
1-1/2"	2WK4P-150	2WK6P-150	0.937	2.250	0.065
2 "	2WK4P-200	2WK6P-200	1.250	3.000	0.065
2-1/2"	2WK4P-250	2WK6P-250	1.562	3.750	0.065
3 "	2WK4P-300	2WK6P-300	1.875	4.500	0.065
4 "	2WK4P-400	2WK6P-400	2.500	6.000	0.083
6 "	2WK4P-600	2WK6P-600	3.750	9.000	0.109
8 "	2WK4P-800	2WK6P-800	5.000	12.000	0.109

Butt Weld Fittings

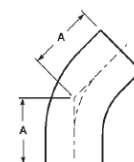
Unpolished 45° Elbows

Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	R	Wall
1/2"	2WK4U-050	2WK6U-050	0.466	1.125	0.065
3/4"	2WK4U-075	2WK6U-075	0.466	1.125	0.065
1 "	2WK4U-100	2WK6U-100	0.625	1.500	0.065
1-1/4"	2WK4U-125	2WK6U-125	0.781	1.875	0.065
1-1/2"	2WK4U-150	2WK6U-150	0.937	2.250	0.065
2 "	2WK4U-200	2WK6U-200	1.250	3.000	0.065
2-1/2"	2WK4U-250	2WK6U-250	1.562	3.750	0.065
3 "	2WK4U-300	2WK6U-300	1.875	4.500	0.065
4 "	2WK4U-400	2WK6U-400	2.500	6.000	0.083
6 "	2WK4U-600	2WK6U-600	3.750	9.000	0.109
8 "	2WK4U-800	2WK6U-800	5.000	12.000	0.109



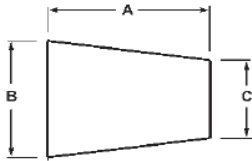
Polished 45° Weld Elbows with Tangents

Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	Wall
1/2"	L2KS4P-050	L2KS6P-050	3.000	0.065
3/4"	L2KS4P-075	L2KS6P-075	3.000	0.065
1 "	L2KS4P-100	L2KS6P-100	1.188	0.065
1-1/2"	L2KS4P-150	L2KS6P-150	1.625	0.065
2 "	L2KS4P-200	L2KS6P-200	2.312	0.065
2-1/2"	L2KS4P-250	L2KS6P-250	3.000	0.065
3 "	L2KS4P-300	L2KS6P-300	3.688	0.065
4 "	L2KS4P-400	L2KS6P-400	4.812	0.083
6 "	L2KS4P-600	L2KS6P-600	6.750	0.109



Butt Weld Fittings

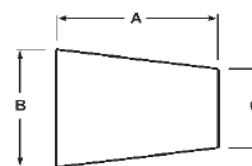
Polished Concentric Reducers



Size (Tube OD)	Part Number		Dimensions			
	304	316L	A	B	C	Wall
3/4" x 1/2"	31W4P-075050	31W6P-075050	1.000	0.750	0.500	0.065
1" x 1/2"	31W4P-100050	31W6P-100050	2.000	1.000	0.500	0.065
1" x 3/4"	31W4P-100075	31W6P-100075	1.000	1.000	0.750	0.065
1-1/2" x 1/2"	31W4P-150050	31W6P-150050	4.000	1.500	0.500	0.065
1-1/2" x 3/4"	31W4P-150075	31W6P-150075	2.000	1.500	0.750	0.065
1-1/2" x 1"	31W4P-150100	31W6P-150100	2.000	1.500	1.000	0.065
2" x 1/2"	31W4P-200050	31W6P-200050	6.000	2.000	0.500	0.065
2" x 3/4"	31W4P-200075	31W6P-200075	5.000	2.000	0.750	0.065
2" x 1"	31W4P-200100	31W6P-200100	4.000	2.000	1.000	0.065
2" x 1-1/2"	31W4P-200150	31W6P-200150	2.000	2.000	1.500	0.065
2-1/2" x 1"	31W4P-250100	31W6P-250100	6.000	2.500	1.000	0.065
2-1/2" x 1-1/2"	31W4P-250150	31W6P-250150	4.000	2.500	1.500	0.065
2-1/2" x 2"	31W4P-250200	31W6P-250200	2.000	2.500	2.000	0.065
3" x 1"	31W4P-300100	31W6P-300100	8.000	3.000	1.000	0.065
3" x 1-1/2"	31W4P-300150	31W6P-300150	6.000	3.000	1.500	0.065
3" x 2"	31W4P-300200	31W6P-300200	4.000	3.000	2.000	0.065
3" x 2-1/2"	31W4P-300250	31W6P-300250	2.000	3.000	2.500	0.065
4" x 1"	31W4P-400100	31W6P-400100	10.000	4.000	1.000	0.083
4" x 1-1/2"	31W4P-400150	31W6P-400150	10.000	4.000	1.500	0.083
4" x 2"	31W4P-400200	31W6P-400200	8.000	4.000	2.000	0.083
4" x 2-1/2"	31W4P-400250	31W6P-400250	6.000	4.000	2.500	0.083
4" x 3"	31W4P-400300	31W6P-400300	4.000	4.000	3.000	0.083
6" x 2"	31W4P-600200	31W6P-600200	5.500	6.000	2.000	0.109
6" x 3"	31W4P-600300	31W6P-600300	5.500	6.000	3.000	0.109
6" x 4"	31W4P-600400	31W6P-600400	5.500	6.000	4.000	0.109
8" x 3"	31W4P-800300	31W6P-800300	6.000	8.000	3.000	0.109
8" x 4"	31W4P-800400	31W6P-800400	6.000	8.000	4.000	0.109
8" x 6"	31W4P-800600	31W6P-800600	6.000	8.000	6.000	0.109

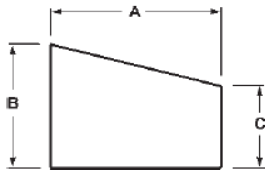
Unpolished Concentric Reducers

Size (Tube OD)	Part Number		Dimensions				
	304	316L	A	B	C	Wall	
3/4" x 1/2"	31W4U-075050	31W6U-075050	1.000	0.750	0.500	0.065	
1" x 1/2"	31W4U-100050	31W6U-100050	2.000	1.000	0.500	0.065	
1" x 3/4"	31W4U-100075	31W6U-100075	1.000	1.000	0.750	0.065	
1-1/2" x 1/2"	31W4U-150050	31W6U-150050	3.000	1.500	0.500	0.065	
1-1/2" x 3/4"	31W4U-150075	31W6U-150075	4.000	1.500	0.750	0.065	
1-1/2" x 1"	31W4U-150100	31W6U-150100	2.000	1.500	1.000	0.065	
2" x 1/2"	31W4U-200050	31W6U-200050	6.000	2.000	0.500	0.065	
2" x 3/4"	31W4U-200075	31W6U-200075	5.000	2.000	0.750	0.065	
2" x 1"	31W4U-200100	31W6U-200100	4.000	2.000	1.000	0.065	
2" x 1-1/2"	31W4U-200150	31W6U-200150	2.000	2.000	1.500	0.065	
2-1/2" x 1"	31W4U-250100	31W6U-250100	6.000	2.500	1.000	0.065	
2-1/2" x 1-1/2"	31W4U-250150	31W6U-250150	4.000	2.500	1.500	0.065	
2-1/2" x 2"	31W4U-250200	31W6U-250200	2.000	2.500	2.000	0.065	
3" x 1"	31W4U-300100	31W6U-300100	8.000	3.000	1.000	0.065	
3" x 1-1/2"	31W4U-300150	31W6U-300150	6.000	3.000	1.500	0.065	
3" x 2"	31W4U-300200	31W6U-300200	4.000	3.000	2.000	0.065	
3" x 2-1/2"	31W4U-300250	31W6U-300250	2.000	3.000	2.500	0.065	
4" x 1"	31W4U-400100	31W6U-400100	10.000	4.000	1.000	0.083	
4" x 1-1/2"	31W4U-400150	31W6U-400150	10.000	4.000	1.500	0.083	
4" x 2"	31W4U-400200	31W6U-400200	8.000	4.000	2.000	0.083	
4" x 2-1/2"	31W4U-400250	31W6U-400250	6.000	4.000	2.500	0.083	
4" x 3"	31W4U-400300	31W6U-400300	4.000	4.000	3.000	0.083	
6" x 2"	31W4U-600200	31W6U-600200	5.500	6.000	2.000	0.109	
6" x 3"	31W4U-600300	31W6U-600300	5.500	6.000	3.000	0.109	
6" x 4"	31W4U-600400	31W6U-600400	5.500	6.000	4.000	0.109	
8" x 3"	31W4U-800300	31W6U-800300	6.000	8.000	3.000	0.109	
8" x 4"	31W4U-800400	31W6U-800400	6.000	8.000	4.000	0.109	
8" x 6"	31W4U-800600	31W6U-800600	6.000	8.000	6.000	0.109	



Butt Weld Fittings

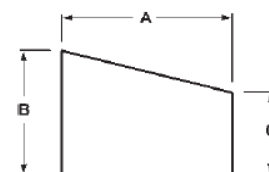
Polished Eccentric Reducers



Size (Tube OD)	Part Number		Dimensions			
	304	316L	A	B	C	Wall
3/4" x 1/2"	32W4P-075050	32W6P-075050	1.000	0.750	0.500	0.065
1" x 1/2"	32W4P-100050	32W6P-100050	2.000	1.000	0.500	0.065
1" x 3/4"	32W4P-100075	32W6P-100075	1.000	1.000	0.750	0.065
1-1/2" x 1/2"	32W4P-150050	32W6P-150050	4.000	1.500	0.500	0.065
1-1/2" x 3/4"	32W4P-150075	32W6P-150075	3.000	1.500	0.750	0.065
1-1/2" x 1"	32W4P-150100	32W6P-150100	2.000	1.500	1.000	0.065
2" x 1/2"	32W4P-200050	32W6P-200050	6.000	2.000	0.500	0.065
2" x 3/4"	32W4P-200075	32W6P-200075	5.000	2.000	0.750	0.065
2" x 1"	32W4P-200100	32W6P-200100	4.000	2.000	1.000	0.065
2" x 1-1/2"	32W4P-200150	32W6P-200150	2.000	2.000	1.500	0.065
2-1/2" x 1"	32W4P-250100	32W6P-250100	6.000	2.500	1.000	0.065
2-1/2" x 1-1/2"	32W4P-250150	32W6P-250150	4.000	2.500	1.500	0.065
2-1/2" x 2"	32W4P-250200	32W6P-250200	2.000	2.500	2.000	0.065
3" x 1"	32W4P-300100	32W6P-300100	8.000	3.000	1.000	0.065
3" x 1-1/2"	32W4P-300150	32W6P-300150	6.000	3.000	1.500	0.065
3" x 2"	32W4P-300200	32W6P-300200	4.000	3.000	2.000	0.065
3" x 2-1/2"	32W4P-300250	32W6P-300250	2.000	3.000	2.500	0.065
4" x 1"	32W4P-400100	32W6P-400100	12.000	4.000	1.000	0.083
4" x 1-1/2"	32W4P-400150	32W6P-400150	10.000	4.000	1.500	0.083
4" x 2"	32W4P-400200	32W6P-400200	8.000	4.000	2.000	0.083
4" x 2-1/2"	32W4P-400250	32W6P-400250	6.000	4.000	2.500	0.083
4" x 3"	32W4P-400300	32W6P-400300	4.000	4.000	3.000	0.083
6" x 2"	32W4P-600200	32W6P-600200	5.500	6.000	2.000	0.109
6" x 3"	32W4P-600300	32W6P-600300	5.500	6.000	3.000	0.109
6" x 4"	32W4P-600400	32W6P-600400	5.500	6.000	4.000	0.109
8" x 3"	32W4P-800300	32W6P-800300	6.000	8.000	3.000	0.109
8" x 4"	32W4P-800400	32W6P-800400	6.000	8.000	4.000	0.109
8" x 6"	32W4P-800600	32W6P-800600	6.000	8.000	6.000	0.109

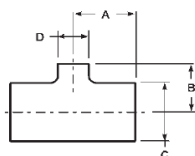
Unpolished Eccentric Reducers

Size (Tube OD)	Part Number		Dimensions			
	304	316L	A	B	C	Wall
3/4" x 1/2"	32W4U-075050	32W6U-075050	1.000	0.750	0.500	0.065
1" x 1/2"	32W4U-100050	32W6U-100050	2.000	1.000	0.500	0.065
1" x 3/4"	32W4U-100075	32W6U-100075	1.000	1.000	0.750	0.065
1-1/2" x 1/2"	32W4U-150050	32W6U-150050	4.000	1.500	0.500	0.065
1-1/2" x 3/4"	32W4U-150075	32W6U-150075	3.000	1.500	0.750	0.065
1-1/2" x 1"	32W4U-150100	32W6U-150100	2.000	1.500	1.000	0.065
2" x 1/2"	32W4U-200050	32W6U-200050	6.000	2.000	0.500	0.065
2" x 3/4"	32W4U-200075	32W6U-200075	5.000	2.000	0.750	0.065
2" x 1"	32W4U-200100	32W6U-200100	4.000	2.000	1.000	0.065
2" x 1-1/2"	32W4U-200150	32W6U-200150	2.000	2.000	1.500	0.065
2-1/2" x 1"	32W4U-250100	32W6U-250100	6.000	2.500	1.000	0.065
2-1/2" x 1-1/2"	32W4U-250150	32W6U-250150	4.000	2.500	1.500	0.065
2-1/2" x 2"	32W4U-250200	32W6U-250200	2.000	2.500	2.000	0.065
3" x 1"	32W4U-300100	32W6U-300100	8.000	3.000	1.000	0.065
3" x 1-1/2"	32W4U-300150	32W6U-300150	6.000	3.000	1.500	0.065
3" x 2"	32W4U-300200	32W6U-300200	4.000	3.000	2.000	0.065
3" x 2-1/2"	32W4U-300250	32W6U-300250	2.000	3.000	2.500	0.065
4" x 1"	32W4U-400100	32W6U-400100	12.000	4.000	1.000	0.083
4" x 1-1/2"	32W4U-400150	32W6U-400150	10.000	4.000	1.500	0.083
4" x 2"	32W4U-400200	32W6U-400200	8.000	4.000	2.000	0.083
4" x 2-1/2"	32W4U-400250	32W6U-400250	6.000	4.000	2.500	0.083
4" x 3"	32W4U-400300	32W6U-400300	4.000	4.000	3.000	0.083
6" x 2"	32W4U-600200	32W6U-600200	5.500	6.000	2.000	0.109
6" x 3"	32W4U-600300	32W6U-600300	5.500	6.000	3.000	0.109
6" x 4"	32W4U-600400	32W6U-600400	5.500	6.000	4.000	0.109
8" x 3"	32W4U-800300	32W6U-800300	6.000	8.000	3.000	0.109
8" x 4"	32W4U-800400	32W6U-800400	6.000	8.000	4.000	0.109
8" x 6"	32W4U-800600	32W6U-800600	6.000	8.000	6.000	0.109



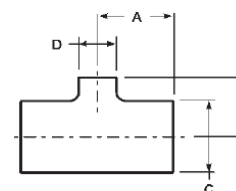
Butt Weld Fittings

Polished Reducing Tees



Size (Tube OD)	Part Number		8.43				
	304	316L	A	B	C	D	Wall
3/4" x 1/2"	7WRT4P-075050	7WRT6P-075050	2.000	2.000	0.750	0.500	0.065
1" x 1/2"	7WRT4P-100050	7WRT6P-100050	2.375	2.375	1.000	0.500	0.065
1" x 3/4"	7WRT4P-100075	7WRT6P-100075	2.375	2.375	1.000	0.750	0.065
1-1/2" x 1/2"	7WRT4P-150050	7WRT6P-150050	2.375	2.375	1.500	0.500	0.065
1-1/2" x 3/4"	7WRT4P-150075	7WRT6P-150075	2.375	2.375	1.500	0.750	0.065
1-1/2" x 1"	7WRT4P-150100	7WRT6P-150100	1.656	1.375	1.500	1.000	0.065
2" x 1/2"	7WRT4P-200050	7WRT6P-200050	2.625	2.625	2.000	0.500	0.065
2" x 3/4"	7WRT4P-200075	7WRT6P-200075	2.625	2.625	2.000	0.750	0.065
2" x 1"	7WRT4P-200100	7WRT6P-200100	2.062	1.625	2.000	1.000	0.065
2" x 1-1/2"	7WRT4P-200150	7WRT6P-200150	2.062	1.906	2.000	1.500	0.065
2-1/2" x 1"	7WRT4P-250100	7WRT6P-250100	2.156	2.156	2.500	1.000	0.065
2-1/2" x 1-1/2"	7WRT4P-250150	7WRT6P-250150	2.344	2.156	2.500	1.500	0.065
2-1/2" x 2"	7WRT4P-250200	7WRT6P-250200	2.344	2.312	2.500	2.000	0.065
3" x 1"	7WRT4P-300100	7WRT6P-300100	3.250	3.500	3.000	1.000	0.065
3" x 1-1/2"	7WRT4P-300150	7WRT6P-300150	2.594	2.406	3.000	1.500	0.065
3" x 2"	7WRT4P-300200	7WRT6P-300200	2.594	2.562	3.000	2.000	0.065
3" x 2-1/2"	7WRT4P-300250	7WRT6P-300250	2.594	2.594	3.000	2.500	0.065
4" x 1"	7WRT4P-400100	7WRT6P-400100	3.438	4.000	4.000	1.000	0.083
4" x 1-1/2"	7WRT4P-400150	7WRT6P-400150	3.438	2.906	4.000	1.500	0.083
4" x 2"	7WRT4P-400200	7WRT6P-400200	3.438	3.062	4.000	2.000	0.083
4" x 2-1/2"	7WRT4P-400250	7WRT6P-400250	3.438	3.094	4.000	2.500	0.083
4" x 3"	7WRT4P-400300	7WRT6P-400300	3.438	3.094	4.000	3.000	0.083
6" x 2"	7WRT4P-600200	7WRT6P-600200	5.625	5.125	6.000	2.000	0.109
6" x 3"	7WRT4P-600300	7WRT6P-600300	5.625	4.875	6.000	3.000	0.109
6" x 4"	7WRT4P-600400	7WRT6P-600400	5.625	5.125	6.000	4.000	0.109
8" x 2"	7WRT4P-800200	7WRT6P-800200	7.000	6.625	8.000	2.000	0.109
8" x 3"	7WRT4P-800300	7WRT6P-800300	7.000	6.625	8.000	3.000	0.109
8" x 4"	7WRT4P-800400	7WRT6P-800400	7.000	6.625	8.000	4.000	0.109
8" x 6"	7WRT4P-800600	7WRT6P-800600	7.000	6.625	8.000	6.000	0.109

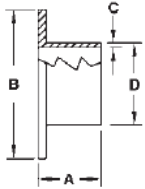
Unpolished Reducing Tees



Size (Tube OD)				Part Number		Dimensions					
				304	316L	A	B	C	D	Wall	
3/4"	x	1/2"		7WRT4U-075050	7WRT6U-075050	2.000	2.000	0.750	0.500	0.065	
1	"	x	1/2"	7WRT4U-100050	7WRT6U-100050	2.375	2.375	1.000	0.500	0.065	
1	"	x	3/4"	7WRT4U-100075	7WRT6U-100075	2.375	2.375	1.000	0.750	0.065	
1-1/2"	x	1/2"		7WRT4U-150050	7WRT6U-150050	2.375	2.375	1.500	0.500	0.065	
1-1/2"	x	3/4"		7WRT4U-150075	7WRT6U-150075	2.375	2.375	1.500	0.750	0.065	
1-1/2"	x	1	"	7WRT4U-150100	7WRT6U-150100	1.656	1.375	1.500	1.000	0.065	
2	"	x	1/2"	7WRT4U-200050	7WRT6U-200050	2.625	2.625	2.000	0.500	0.065	
2	"	x	3/4"	7WRT4U-200075	7WRT6U-200075	2.625	2.625	2.000	0.750	0.065	
2	"	x	1	"	7WRT4U-200100	7WRT6PU-200100	2.062	1.625	2.000	1.000	0.065
2	"	x	1-1/2"	7WRT4U-200150	7WRT6U-200150	2.062	1.906	2.000	1.500	0.065	
2-1/2"	x	1	"	7WRT4U-250100	7WRT6U-250100	2.156	2.156	2.500	1.000	0.065	
2-1/2"	x	1-1/2"		7WRT4U-250150	7WRT6U-250150	2.344	2.156	2.500	1.500	0.065	
2-1/2"	x	2	"	7WRT4U-250200	7WRT6U-250200	2.344	2.312	2.500	2.000	0.065	
3	"	x	1	"	7WRT4U-300100	7WRT6U-300100	3.250	3.500	3.000	1.000	0.065
3	"	x	1-1/2"	7WRT4U-300150	7WRT6U-300150	2.594	2.406	3.000	1.500	0.065	
3	"	x	2	"	7WRT4U-300200	7WRT6U-300200	2.594	2.562	3.000	2.000	0.065
3	"	x	2-1/2"	7WRT4U-300250	7WRT6U-300250	2.594	2.594	3.000	2.500	0.065	
4	"	x	1	"	7WRT4U-400100	7WRT6U-400100	3.438	4.000	4.000	1.000	0.083
4	"	x	1-1/2"	7WRT4U-400150	7WRT6P-4U00150	3.438	2.906	4.000	1.500	0.083	
4	"	x	2	"	7WRT4U-400200	7WRT6U-400200	3.438	3.062	4.000	2.000	0.083
4	"	x	2-1/2"	7WRT4U-400250	7WRT6PU-400250	3.438	3.094	4.000	2.500	0.083	
4	"	x	3	"	7WRT4U-400300	7WRT6U-400300	3.438	3.094	4.000	3.000	0.083
6	"	x	2	"	7WRT4U-600200	7WRT6U-600200	5.625	4.500	6.000	2.000	0.109
6	"	x	3	"	7WRT4U-600300	7WRT6U-600300	5.625	4.875	6.000	3.000	0.109
6	"	x	4	"	7WRT4U-600400	7WRT6U-600400	5.625	5.125	6.000	4.000	0.109
8	"	x	2	"	7WRT4U-800200	7WRT6U-800200	7.000	6.625	8.000	2.000	0.109
8	"	x	3	"	7WRT4U-800300	7WRT6U-800300	7.000	6.625	8.000	3.000	0.109
8	"	x	4	"	7WRT4U-800400	7WRT6U-800400	7.000	6.625	8.000	4.000	0.109
8	"	x	6	"	7WRT4U-800600	7WRT6U-800600	7.000	6.625	8.000	6.000	0.109

Butt Weld Fittings

Type A (VB) Stub Ends



Size (Tube OD)	Part Number		Dimensions			
	304	316L	A	B	C	D
1 "	14VB4-100	14VB6-100	1.625	2.000	0.065	1.000
1-1/2"	14VB4-150	14VB6-150	1.750	2.875	0.065	1.500
2 "	14VB4-200	14VB6-200	1.500	3.625	0.065	2.000
2-1/2"	14VB4-250	14VB6-250	2.000	4.125	0.065	2.500
3 "	14VB4-300	14VB6-300	2.250	5.000	0.065	3.000
4 "	14VB4-400	14VB6-400	2.625	6.187	0.084	4.000
6 "	14VB4-600	14VB6-600	3.000	8.500	0.109	6.000
8 "	14VB4-800	14VB6-800	3.000	10.625	0.109	8.000

Notes:

- Compatible with 1/2" Thick Tube (38SL) Flanges.

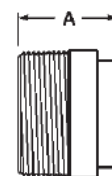
Polished End Caps



Size (Tube OD)	Part Number		Dimensions
	304	316L	A
1 "	16W4P-100	16W6P-100	0.375
1-1/2"	16W4P-150	16W6P-150	0.562
2 "	16W4P-200	16W6P-200	0.750
2-1/2"	16W4P-250	16W6P-250	1.000
3 "	16W4P-300	16W6P-300	1.250
4 "	16W4P-400	16W6P-400	1.500
6 "	16W4P-600	16W6P-600	1.875

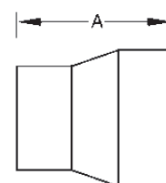
Male NPT x Tube OD Weld Adapters

Size (OD x NPT)	Part Number		Dimensions	
	304	316L	A	Wall
1/2"	19WB4-050	19WB6-050	1.625	0.065
3/4"	19WB4-075	19WB6-075	1.625	0.065
1 "	19WB4-100	19WB6-100	1.750	0.065
1-1/2"	19WB4-150	19WB6-150	1.750	0.065
2 "	19WB4-200	19WB6-200	1.812	0.065
2-1/2"	19WB4-250	19WB6-250	2.312	0.065
3 "	19WB4-300	19WB6-300	2.500	0.065
4 "	19WB4-400	19WB6-400	2.562	0.083



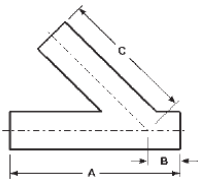
Tube OD Weld x Schedule 10S Weld Adapters

Size (OD x NPT)	Part Number		Dimensions		
	304	316L	A	Tube Wall	Pipe Wall
1/2"	19WX4-050	19WX6-050	1.000	0.065	0.109
3/4"	19WX4-075	19WX6-075	1.000	0.065	0.109
1 "	19WX4-100	19WX6-100	1.000	0.065	0.109
1-1/2"	19WX4-150	19WX6-150	0.750	0.065	0.109
2 "	19WX4-200	19WX6-200	0.750	0.065	0.109
2-1/2"	19WX4-250	19WX6-250	1.000	0.065	0.120
3 "	19WX4-300	19WX6-300	1.000	0.065	0.120
4 "	19WX4-400	19WX6-400	1.000	0.084	0.120



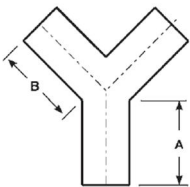
Butt Weld Fittings

Polished Laterals



Size (Tube OD)	Part Number		Dimensions			
	304	316L	A	B	C	Wall
1 "	28WA4P-100	28WA6P-100	6.000	1.000	5.000	0.065
1-1/2"	28WA4P-150	28WA6P-150	7.375	1.188	6.188	0.065
2 "	28WA4P-200	28WA6P-200	8.750	1.625	7.125	0.065
2-1/2"	28WA4P-250	28WA6P-250	10.000	1.500	8.500	0.065
3 "	28WA4P-300	28WA6P-300	10.750	1.875	8.875	0.065
4 "	28WA4P-400	28WA6P-400	12.812	2.015	10.750	0.083
6 "	28WA4P-600	28WA6P-600	18.000	3.500	14.500	0.109

Polished True Wyes

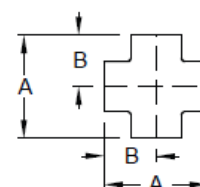


Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	A	Wall
1 "	28W4P-100	28W6P-100	2.000	2.438	0.065
1-1/2"	28W4P-150	28W6P-150	2.000	2.438	0.065
2 "	28W4P-200	28W6P-200	2.625	3.250	0.065
2-1/2"	28W4P-250	28W6P-250	3.370	4.125	0.065
3 "	28W4P-300	28W6P-300	4.000	4.875	0.065
4 "	28W4P-400	28W6P-400	5.375	5.375	0.083
6 "	28W4P-600	28W6P-600	8.000	8.000	0.109

Polished Crosses



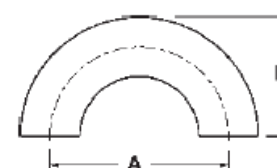
Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1 "	9W4P-100	9W6P-100	2.250	1.125	0.065
1-1/2"	9W4P-150	9W6P-150	3.312	1.656	0.065
2 "	9W4P-200	9W6P-200	4.125	2.062	0.065
2-1/2"	9W4P-250	9W6P-250	4.687	2.343	0.065
3 "	9W4P-300	9W6P-300	5.187	2.593	0.065
4 "	9W4P-400	9W6P-400	6.875	3.437	0.083



Polished 180° Return Bends

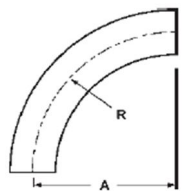


Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	B
1 "	2WUL4P-100	2WUL6P-100	3.000	2.000
1-1/2"	2WUL4P-150	2WUL6P-150	4.500	3.000
2 "	2WUL4P-200	2WUL6P-200	6.000	4.000
2-1/2"	2WUL4P-250	2WUL6P-250	7.500	5.000
3 "	2WUL4P-300	2WUL6P-300	9.000	6.000
4 "	2WUL4P-400	2WUL6P-400	12.000	8.000
6 "	2WUL4P-600	2WUL6P-600	18.000	12.000



Butt Weld Fittings

Polished 12" 90° Sweep Elbows

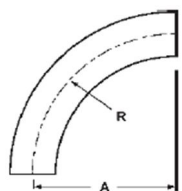


Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	R
1-1/2"	2SXL124-150	2SXL126-150	12.000	12.000
2 "	2SXL124-200	2SXL126-200	12.000	12.000
3 "	2SXL124-300	2SXL126-300	12.000	12.000
4 "	2SXL124-400	2SXL126-400	12.000	12.000

Notes:

- All Sweeps will be provided with standard tangent lengths equal to two times the diameter.
- 45° sweeps and other end configurations available.

Polished 18" 90° Sweep Elbows



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	R
1-1/2"	2SXL184-150	2SXL186-150	18.000	18.000
2 "	2SXL184-200	2SXL186-200	18.000	18.000
2-1/2"	2SXL184-250	2SXL186-250	18.000	18.000
3 "	2SXL184-300	2SXL186-300	18.000	18.000
4 "	2SXL184-400	2SXL186-400	18.000	18.000

Notes:

- All Sweeps will be provided with standard tangent lengths equal to two times the diameter.
- 45° sweeps and other end configurations available.

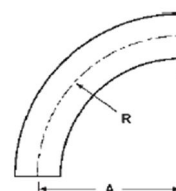
Polished 24" 90° Sweep Elbows



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	R
1-1/2"	2SXL244-150	2SXL246-150	24.000	24.000
2 "	2SXL244-200	2SXL246-200	24.000	24.000
2-1/2"	2SXL244-250	2SXL246-250	24.000	24.000
3 "	2SXL244-300	2SXL246-300	24.000	24.000
4 "	2SXL244-400	2SXL246-400	24.000	24.000

Notes:

- All Sweeps will be provided with standard tangent lengths equal to two times the diameter.
- 45° sweeps and other end configurations available.



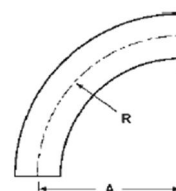
Polished 36" 90° Sweep Elbows



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	R
3 "	2SXL364-300	2SXL366-300	36.000	36.000
4 "	2SXL364-400	2SXL366-400	36.000	36.000

Notes:

- All Sweeps will be provided with standard tangent lengths equal to two times the diameter.
- 45° sweeps and other end configurations available.

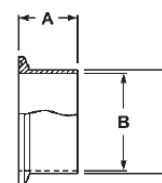


Clamp Fittings



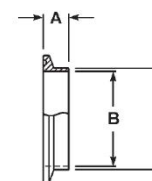
Clamp Fittings

Long Weld Clamp Ferrules



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	C
1/2"	14AM74-050	14AM76-050	1.125	0.370	0.500
3/4"	14AM74-075	14AM76-075	1.125	0.620	0.750
1 "	14AM74-100	14AM76-100	1.125	0.870	1.000
1-1/2"	14AM74-150	14AM76-150	1.125	1.370	1.500
2 "	14AM74-200	14AM76-200	1.125	1.870	2.000
2-1/2"	14AM74-250	14AM76-250	1.125	2.370	2.500
3 "	14AM74-300	14AM76-300	1.125	2.870	3.000
4 "	14AM74-400	14AM76-400	1.125	3.834	4.000
6 "	14AM74-600	14AM76-600	1.500	5.782	6.000
8 "	14AM74-800	14AM76-800	1.500	7.760	8.000

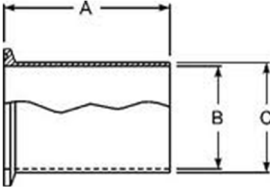
Short Weld Clamp Ferrules



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	C
1/2"	14WMP4-050	14WMP6-050	0.500	0.370	0.500
3/4"	14WMP4-075	14WMP6-075	0.500	0.620	0.750
1 "	14WMP4-100	14WMP6-100	0.500	0.870	1.000
1-1/2"	14WMP4-150	14WMP6-150	0.500	1.370	1.500
2 "	14WMP4-200	14WMP6-200	0.500	1.870	2.000
2-1/2"	14WMP4-250	14WMP6-250	0.500	2.370	2.500
3 "	14WMP4-300	14WMP6-300	0.500	2.870	3.000
4 "	14WMP4-400	14WMP6-400	0.625	3.834	4.000
6 "	14WMP4-600	14WMP6-600	0.875	5.782	6.000
8 "	14WMP4-800	14WMP6-800	0.875	7.760	8.000

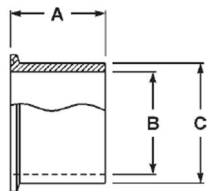
Clamp Fittings

Light Duty Tank Ferrules



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	C
1/2"	14WLMP4-050	14WLMP6-050	3.000	0.370	0.500
3/4"	14WLMP4-075	14WLMP6-075	3.000	0.620	0.750
1 "	14WLMP4-100	14WLMP6-100	3.000	0.870	1.000
1-1/2"	14WLMP4-150	14WLMP6-150	3.000	1.370	1.500
2 "	14WLMP4-200	14WLMP6-200	3.000	1.870	2.000
2-1/2"	14WLMP4-250	14WLMP6-250	3.000	2.370	2.500
3 "	14WLMP4-300	14WLMP6-300	4.000	2.870	3.000
4 "	14WLMP4-400	14WLMP6-400	4.000	3.834	4.000
6 "	14WLMP4-600	14WLMP6-600	6.000	5.782	6.000
8 "	14WLMP4-800	14WLMP6-800	6.000	7.760	8.000

Heavy Duty Tank Weld Ferrules



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	C
1/2"	--	14MPW6-050	1.625	0.321	0.502
3/4"	--	14MPW6-075	1.626	0.574	0.750
1 "	--	14MPW6-100	1.625	0.870	1.160
1-1/2"	--	14MPW6-150	1.625	1.370	1.676
2 "	--	14MPW6-200	1.750	1.870	2.192
2-1/2"	--	14MPW6-250	1.750	2.370	2.708
3 "	--	14MPW6-300	1.813	2.870	3.224
4 "	--	14MPW6-400	2.125	3.834	4.256
6 "	--	14MPW6-600	2.500	5.758	6.192

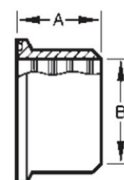
Notes:

- ASME SA479

Roll-On Expanding Ferrules

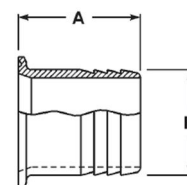


Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	B
1 "	14RMP4-100	--	0.750	1.005
1-1/2"	14RMP4-150	--	1.125	1.505
2 "	14RMP4-200	--	1.312	2.005
2-1/2"	14RMP4-250	--	1.375	2.505
3 "	14RMP4-300	--	1.437	3.005
4 "	14RMP4-400	--	1.500	4.005
6 "	14RMP4-600	--	2.000	6.005



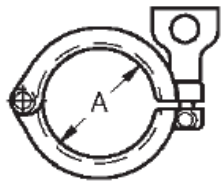
Rubber Hose Adapters

Size (Tube OD)	Part Number		Dimensions		
	304	316L	Hose Size	A	B
1/2"	--	14MPHR6-050	0.500	1.500	0.500
3/4"	--	14MPHR6-075	0.750	1.500	0.750
1 "	--	14MPHR6-100	1.000	1.688	1.000
1-1/2"	--	14MPHR6-150	1.500	1.687	1.500
2 "	--	14MPHR6-200	2.000	2.312	2.000
2-1/2"	--	14MPHR6-250	2.500	2.344	2.500
3 "	--	14MPHR6-300	3.000	3.094	3.000
4 "	--	14MPHR6-400	4.000	3.406	4.000
6 "	--	14MPHR6-600	6.000	3.406	6.000
8 "	--	14MPHR6-800	8.000	3.406	8.000



Clamp Fittings

Single Pin Heavy Duty Clamps with Wing Nut

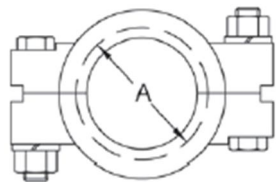


Size (Tube OD)	Part Number	Service Pressure Rating at 70°F	Service Pressure Rating at 250°F	Dimensions A
1/2" - 3/4"	13MHHM-050-075	1,500	1,200	1.062
1" - 1-1/2"	13MHHM-100-150	500	300	2.122
2"	13MHHM-200	450	250	2.654
2-1/2"	13MHHM-250	400	200	3.185
3"	13MHHM-300	350	175	3.717
4"	13MHHM-400	300	150	4.820
6"	13MHHM-600	150	75	6.695
8"	13MHHM-800	100	50	8.695

Notes:

- All clamps are T304 Stainless Steel.
- Pressure ratings assume wing nut tightened to 25 in/lbs of torque.

Bolted Clamps



Size (Tube OD)	Part Number	Service Pressure Rating at 70°F	Service Pressure Rating at 250°F	Dimensions A
1" - 1-1/2"	13MHP-100-150	1,500	1,200	2.046
2"	13MHP-200	1,000	800	2.578
2-1/2"	13MHP-250	1,000	800	3.110
3"	13MHP-300	1,000	800	3.640
4"	13MHP-400	800	600	4.744
6"	13MHP-600	300	200	6.632

Notes:

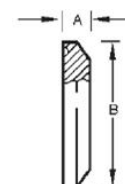
- Clamps are T304 Stainless Steel. Nuts are brass.
- Pressure ratings assume wing nut tightened to 20 ft/lbs of torque.

Clamp Fittings

Solid Clamp End Caps



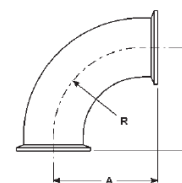
Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	B
1/2" - 3/4"	16AMP4-050-075	16AMP6-050-075	0.187	0.992
1" - 1-1/2"	16AMP4-100-150	16AMP6-100-150	0.250	1.984
2"	16AMP4-200	16AMP6-200	0.250	2.516
2-1/2"	16AMP4-250	16AMP6-250	0.250	3.047
3"	16AMP4-300	16AMP6-300	0.250	3.579
4"	16AMP4-400	16AMP6-400	0.312	4.682
6"	16AMP4-600	16AMP6-600	0.437	6.570
8"	16AMP4-800	16AMP6-800	0.437	8.570



90° Clamp Elbows

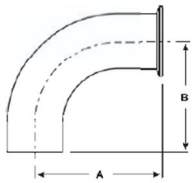


Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	R
1/2"	2CMP4-050	2CMP6-050	1.625	1.125
3/4"	2CMP4-075	2CMP6-075	1.625	1.125
1"	2CMP4-100	2CMP6-100	2.000	1.500
1-1/2"	2CMP4-150	2CMP6-150	2.750	2.250
2"	2CMP4-200	2CMP6-200	3.500	3.000
2-1/2"	2CMP4-250	2CMP6-250	4.250	3.750
3"	2CMP4-300	2CMP6-300	5.000	4.500
4"	2CMP4-400	2CMP6-400	6.625	6.000
6"	2CMP4-600	2CMP6-600	12.875	12.000
8"	2CMP4-800	2CMP6-800	15.875	15.000



Clamp Fittings

90° Clamp x Weld Elbows

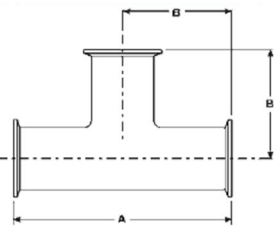


Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1/2"	L2CM4-050	L2CM6-050	3.500	3.000	0.065
3/4"	L2CM4-075	L2CM6-075	3.500	3.000	0.065
1 "	L2CM4-100	L2CM6-100	2.562	2.062	0.065
1-1/2"	L2CM4-150	L2CM6-150	3.438	2.937	0.065
2 "	L2CM4-200	L2CM6-200	4.562	4.062	0.065
2-1/2"	L2CM4-250	L2CM6-250	5.688	5.187	0.065
3 "	L2CM4-300	L2CM6-300	6.812	6.312	0.065
4 "	L2CM4-400	L2CM6-400	8.937	8.312	0.083
6 "	L2CM4-600	L2CM6-600	12.125	11.250	0.109

Notes:

- Other configurations available upon request. Call Sanitube for information.

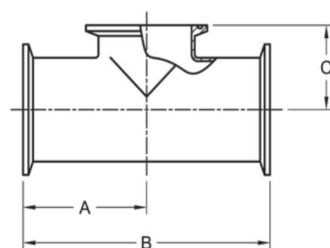
Clamp Tees



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	B
1/2"	7MP4-050	7MP6-050	4.750	2.375
3/4"	7MP4-075	7MP6-075	5.000	2.750
1 "	7MP4-100	7MP6-100	4.750	2.375
1-1/2"	7MP4-150	7MP6-150	5.500	2.750
2 "	7MP4-200	7MP6-200	7.000	3.500
2-1/2"	7MP4-250	7MP6-250	7.000	3.500
3 "	7MP4-300	7MP6-300	7.500	3.750
4 "	7MP4-400	7MP6-400	9.000	4.500
6 "	7MP4-600	7MP6-600	13.000	6.500
8 "	7MP4-800	7MP6-800	15.750	7.875

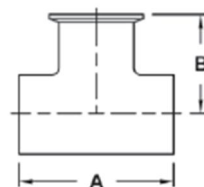
Clamp Fittings

Clamp Short Outlet Tees



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	C
1/2"	7MPS4-050	7MPS6-050	2.375	4.750	0.875
3/4"	7MPS4-075	7MPS6-075	2.750	5.500	1.000
1 "	7MPS4-100	7MPS6-100	2.375	4.750	1.125
1-1/2"	7MPS4-150	7MPS6-150	2.750	5.500	1.375
2 "	7MPS4-200	7MPS6-200	3.500	7.000	1.625
2-1/2"	7MPS4-250	7MPS6-250	3.500	7.000	1.875
3 "	7MPS4-300	7MPS6-300	3.750	7.500	2.125
4 "	7MPS4-400	7MPS6-400	4.500	9.000	2.750
6 "	7MPS4-600	7MPS6-600	6.500	13.000	4.000
8 "	7MPS4-800	7MPS6-800	7.875	15.750	5.000

Weld Run x Clamp Branch Tees



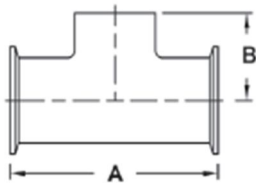
Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1 "	7WWM4-100	7WWM6-100	2.250	1.625	0.065
1-1/2"	7WWM4-150	7WWM6-150	3.312	2.156	0.065
2 "	7WWM4-200	7WWM6-200	4.124	2.562	0.065
2-1/2"	7WWM4-250	7WWM6-250	4.688	2.844	0.065
3 "	7WWM4-300	7WWM6-300	5.188	3.094	0.065
4 "	7WWM4-400	7WWM6-400	6.876	4.063	0.083

Notes:

- Other configurations available upon request. Call Sanitube for information.

Clamp Fittings

Clamp Run x Weld Branch Tees

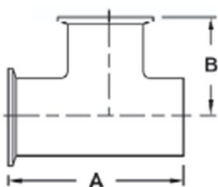


Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1 "	7MMW4-100	7MMW6-100	3.250	1.125	0.065
1-1/2"	7MMW4-150	7MMW6-150	4.312	1.656	0.065
2 "	7MMW4-200	7MMW6-200	5.124	2.062	0.065
2-1/2"	7MMW4-250	7MMW6-250	5.688	2.062	0.065
3 "	7MMW4-300	7MMW6-300	6.188	2.594	0.065
4 "	7MMW4-400	7MMW6-400	8.124	3.438	0.083

Notes:

- Other configurations available upon request. Call Sanitube for information.

Weld x Clamp Run x Clamp Branch Tees



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1 "	7WMM4-100	7WMM6-100	2.750	1.625	0.065
1-1/2"	7WMM4-150	7WMM6-150	3.812	2.156	0.065
2 "	7WMM4-200	7WMM6-200	4.624	2.562	0.065
2-1/2"	7WMM4-250	7WMM6-250	5.188	2.844	0.065
3 "	7WMM4-300	7WMM6-300	5.688	3.094	0.065
4 "	7WMM4-400	7WMM6-400	7.500	4.063	0.083

Notes:

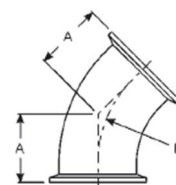
- Other configurations available upon request. Call Sanitube for information.

Clamp Fittings

Clamp 45° Elbows



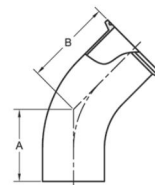
Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	R
1/2"	2KMP4-050	2KMP6-050	0.966	1.125
3/4"	2KMP4-075	2KMP6-075	0.966	1.125
1 "	2KMP4-100	2KMP6-100	1.125	1.500
1-1/2"	2KMP4-150	2KMP6-150	1.437	2.250
2 "	2KMP4-200	2KMP6-200	1.750	3.000
2-1/2"	2KMP4-250	2KMP6-250	2.062	3.750
3 "	2KMP4-300	2KMP6-300	2.375	4.500
4 "	2KMP4-400	2KMP6-400	3.125	6.000
6 "	2KMP4-600	2KMP6-600	4.625	9.000
8 "	2KMP4-800	2KMP6-800	5.875	12.000



Clamp x Weld 45° Elbows



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	Wall
1/2"	L2KM4-050	L2KM6-050	2.250	2.750	0.065
3/4"	L2KM4-075	L2KM6-075	2.250	2.750	0.065
1 "	L2KM4-100	L2KM6-100	1.180	1.688	0.065
1-1/2"	L2KM4-150	L2KM6-150	1.625	2.125	0.065
2 "	L2KM4-200	L2KM6-200	2.312	2.812	0.065
2-1/2"	L2KM4-250	L2KM6-250	3.000	3.500	0.065
3 "	L2KM4-300	L2KM6-300	3.688	4.188	0.065
4 "	L2KM4-400	L2KM6-400	4.812	5.437	0.083
6 "	L2KM4-600	L2KM6-600	6.750	7.625	0.109

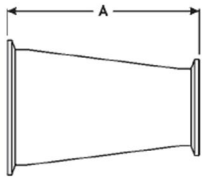


Notes:

- Other configurations available upon request. Call Sanitube for information.

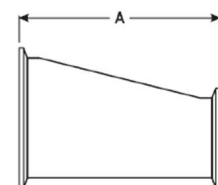
Clamp Fittings

Clamp Concentric Reducers



Size (Tube OD)			Part Number		Dimensions A
			304	316L	
3/4"	x	1/2"	3114MP4-075050	3114MP6-075050	2.000
1	" x	1/2"	3114MP4-100050	3114MP6-100050	3.000
1	" x	3/4"	3114MP4-100075	3114MP6-100075	2.000
1-1/2"	x	1/2"	3114MP4-150050	3114MP6-150050	5.000
1-1/2"	x	3/4"	3114MP4-150075	3114MP6-150075	4.000
1-1/2"	x	1	3114MP4-150100	3114MP6-150100	3.000
2	" x	1/2"	3114MP4-200050	3114MP6-200050	7.000
2	" x	3/4"	3114MP4-200075	3114MP6-200075	6.000
2	" x	1	3114MP4-200100	3114MP6-200100	5.000
2	" x	1-1/2"	3114MP4-200150	3114MP6-200150	3.000
2-1/2"	x	1-1/2"	3114MP4-250150	3114MP6-250150	5.000
2-1/2"	x	2	3114MP4-250200	3114MP6-250200	3.000
3	" x	1	3114MP4-300100	3114MP6-300100	9.000
3	" x	1-1/2"	3114MP4-300150	3114MP6-300150	7.000
3	" x	2	3114MP4-300200	3114MP6-300200	5.000
3	" x	2-1/2"	3114MP4-300250	3114MP6-300250	3.000
4	" x	1	3114MP4-400100	3114MP6-400100	11.125
4	" x	1-1/2"	3114MP4-400150	3114MP6-400150	11.125
4	" x	2	3114MP4-400200	3114MP6-400200	9.125
4	" x	2-1/2"	3114MP4-400250	3114MP6-400250	7.125
4	" x	3	3114MP4-400300	3114MP6-400300	5.125
6	" x	2	3114MP4-600200	3114MP6-600200	6.875
6	" x	3	3114MP4-600300	3114MP6-600300	6.875
6	" x	4	3114MP4-600400	3114MP6-600400	7.000
8	" x	3	3114MP4-800300	3114MP6-800300	7.500
8	" x	4	3114MP4-800400	3114MP6-800400	7.500
8	" x	6	3114MP4-800600	3114MP6-800600	7.750

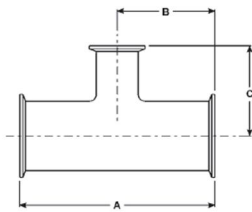
Clamp Eccentric Reducers



Size (Tube OD)			Part Number		Dimensions
			304	316L	A
3/4"	x	1/2"	3214MP4-075050	3214MP6-075050	2.000
1"	x	1/2"	3214MP4-100050	3214MP6-100050	3.000
1"	x	3/4"	3214MP4-100075	3214MP6-100075	2.000
1-1/2"	x	1/2"	3214MP4-150050	3214MP6-150050	5.000
1-1/2"	x	3/4"	3214MP4-150075	3214MP6-150075	4.000
1-1/2"	x	1"	3214MP4-150100	3214MP6-150100	3.000
2"	x	1/2"	3214MP4-200050	3214MP6-200050	7.000
2"	x	3/4"	3214MP4-200075	3214MP6-200075	6.000
2"	x	1"	3214MP4-200100	3214MP6-200100	5.000
2"	x	1-1/2"	3214MP4-200150	3214MP6-200150	3.000
2-1/2"	x	1-1/2"	3214MP4-250150	3214MP6-250150	5.000
2-1/2"	x	2"	3214MP4-250200	3214MP6-250200	3.000
3"	x	1"	3214MP4-300100	3214MP6-300100	9.000
3"	x	1-1/2"	3214MP4-300150	3214MP6-300150	7.000
3"	x	2"	3214MP4-300200	3214MP6-300200	5.000
3"	x	2-1/2"	3214MP4-300250	3214MP6-300250	3.000
4"	x	1"	3214MP4-400100	3214MP6-400-100	13.125
4"	x	1-1/2"	3214MP4-400150	3214MP6-400150	11.125
4"	x	2"	3214MP4-400200	3214MP6-400200	9.125
4"	x	2-1/2"	3214MP4-400250	3214MP6-400250	7.125
4"	x	3"	3214MP4-400300	3214MP6-400300	5.125
6"	x	2"	3214MP4-600200	3214MP6-600200	6.875
6"	x	3"	3214MP4-600300	3214MP6-600300	6.875
6"	x	4"	3214MP4-600400	3214MP6-600400	7.000
8"	x	3"	3214MP4-800300	3214MP6-800300	7.500
8"	x	4"	3214MP4-800400	3214MP6-800400	7.500
8"	x	6"	3214MP4-800600	3214MP6-800600	7.750

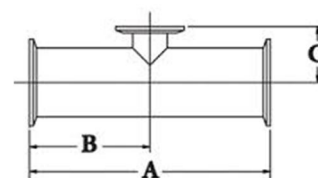
Clamp Fittings

Clamp Reducing Tees



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	C
3/4" x 1/2"	7RMP4-075050	7RMP6-075050	5.000	2.500	2.500
1 " x 1/2"	7RMP4-100050	7RMP6-100050	5.250	2.626	2.625
1 " x 3/4"	7RMP4-150100	7RMP6-150100	5.250	2.625	2.625
1-1/2" x 1/2"	7RMP4-150100	7RMP6-150100	5.750	2.875	2.875
1-1/2" x 3/4"	7RMP4-150100	7RMP6-150100	5.750	2.875	2.875
1-1/2" x 1 "	7RMP4-150100	7RMP6-150100	4.312	2.156	1.875
2 " x 1/2"	7RMP4-200100	7RMP6-200100	6.750	3.375	3.125
2 " x 3/4"	7RMP4-200100	7RMP6-200100	6.750	3.375	3.125
2 " x 1 "	7RMP4-200100	7RMP6-200100	5.125	2.562	2.125
2 " x 1-1/2"	7RMP4-200150	7RMP6-200150	5.125	2.562	2.406
2-1/2" x 1 "	7RMP4-250100	7RMP6-250100	5.688	2.844	2.656
2-1/2" x 1-1/2"	7RMP4-250150	7RMP6-250150	5.688	2.844	2.656
2-1/2" x 2 "	7RMP4-250200	7RMP6-250200	5.688	2.844	2.812
3 " x 1 "	7RMP4-300100	7RMP6-300100	7.500	3.750	4.000
3 " x 1-1/2"	7RMP4-300150	7RMP6-300150	6.188	3.093	2.906
3 " x 2 "	7RMP4-300200	7RMP6-300200	6.188	3.093	3.063
3 " x 2-1/2"	7RMP4-300250	7RMP6-300250	6.188	3.093	3.093
4 " x 1 "	7RMP4-400100	7RMP6-400100	8.126	4.063	4.500
4 " x 1-1/2"	7RMP4-400150	7RMP6-400150	8.125	4.063	3.406
4 " x 2 "	7RMP4-400200	7RMP6-400200	8.125	4.063	3.563
4 " x 2-1/2"	7RMP4-400250	7RMP6-400250	8.125	4.063	3.594
4 " x 3 "	7RMP4-400300	7RMP6-400300	8.125	4.063	3.594
6 " x 2 "	7RMP4-600200	7RMP6-600200	13.000	6.500	5.375
6 " x 3 "	7RMP4-600300	7RMP6-600300	13.000	6.500	5.375
6 " x 4 "	7RMP4-600400	7RMP6-600400	13.000	6.500	5.750
8 " x 2 "	7RMP4-800200	7RMP6-800200	15.750	7.875	7.500
8 " x 3 "	7RMP4-800300	7RMP6-800300	15.750	7.875	7.500
8 " x 4 "	7RMP4-800400	7RMP6-800400	15.750	7.875	7.500
8 " x 6 "	7RMP4-800600	7RMP6-800600	15.750	7.875	7.500

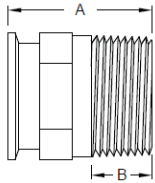
Clamp Short Outlet Reducing Tees



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	C
3/4" x 1/2"	7RMPS4-075050	7RMPS6-075050	5.000	2.500	1.000
1 " x 1/2"	7RMPS4-100050	7RMPS6-100050	5.250	2.626	1.125
1 " x 3/4"	7RMPS4-150100	7RMPS6-150100	5.250	2.625	1.125
1-1/2" x 1/2"	7RMPS4-150100	7RMPS6-150100	5.750	2.875	1.375
1-1/2" x 3/4"	7RMPS4-150100	7RMPS6-150100	5.750	2.875	1.375
1-1/2" x 1 "	7RMPS4-150100	7RMPS6-150100	4.312	2.156	1.375
2 " x 1/2"	7RMPS4-200100	7RMPS6-200100	6.750	3.375	1.625
2 " x 3/4"	7RMPS4-200100	7RMPS6-200100	6.750	3.375	1.625
2 " x 1 "	7RMPS4-200100	7RMPS6-200100	5.125	2.562	1.625
2 " x 1-1/2"	7RMPS4-200150	7RMPS6-200150	5.125	2.562	1.625
2-1/2" x 1 "	7RMPS4-250100	7RMPS6-250100	5.688	2.844	1.875
2-1/2" x 1-1/2"	7RMPS4-250150	7RMPS6-250150	5.688	2.844	1.875
2-1/2" x 2 "	7RMPS4-250200	7RMPS6-250200	5.688	2.844	1.875
3 " x 1 "	7RMPS4-300100	7RMPS6-300100	7.500	3.750	2.125
3 " x 1-1/2"	7RMPS4-300150	7RMPS6-300150	6.188	3.093	2.125
3 " x 2 "	7RMPS4-300200	7RMPS6-300200	6.188	3.093	2.125
3 " x 2-1/2"	7RMPS4-300250	7RMPS6-300250	6.188	3.093	2.125
4 " x 1 "	7RMPS4-400100	7RMPS6-400100	8.126	4.063	2.625
4 " x 1-1/2"	7RMPS4-400150	7RMPS6-400150	8.125	4.063	2.625
4 " x 2 "	7RMPS4-400200	7RMPS6-400200	8.125	4.063	2.625
4 " x 2-1/2"	7RMPS4-400250	7RMPS6-400250	8.125	4.063	2.625
4 " x 3 "	7RMPS4-400300	7RMPS6-400300	8.125	4.063	2.625
6 " x 2 "	7RMPS4-600200	7RMPS6-600200	13.000	6.500	3.625
6 " x 3 "	7RMPS4-600300	7RMPS6-600300	13.000	6.500	3.625
6 " x 4 "	7RMPS4-600400	7RMPS6-600400	13.000	6.500	3.750
8 " x 2 "	7RMPS4-800200	7RMPS6-800200	15.750	7.875	5.000
8 " x 3 "	7RMPS4-800300	7RMPS6-800300	15.750	7.875	5.125
8 " x 4 "	7RMPS4-800400	7RMPS6-800400	15.750	7.875	5.125
8 " x 6 "	7RMPS4-800600	7RMPS6-800600	15.750	7.875	5.125

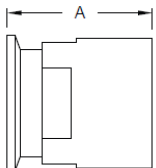
Clamp Fittings

Male NPT x Clamp Adapters



Size (OD x NPT)	Part Number		Dimensions	
	304	316L	A	B
1/2"	21MP4-050	21MP6-050	1.625	0.782
3/4"	21MP4-075	21MP6-075	1.787	0.794
1 "	21MP4-100	21MP6-100	2.250	0.985
1-1/2"	21MP4-150	21MP6-150	2.250	1.025
2 "	21MP4-200	21MP6-200	2.638	1.058
2-1/2"	21MP4-250	21MP6-250	2.875	1.571
3 "	21MP4-300	21MP6-300	3.070	1.634
4 "	21MP4-400	21MP6-400	3.155	1.734

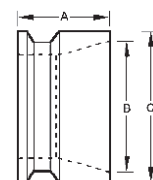
Female NPT x Clamp Adapters



Size (OD x NPT)	Part Number		Dim A
	304	316L	
1/2"	22MP4-050	22MP6-050	1.500
3/4"	22MP4-075	22MP6-075	1.625
1 "	22MP4-100	22MP6-100	1.625
1-1/2"	22MP4-150	22MP6-150	2.250
2 "	22MP4-200	22MP6-200	2.406
2-1/2"	22MP4-250	22MP6-250	2.187
3 "	22MP4-300	22MP6-300	2.187
4 "	22MP4-400	22MP6-400	3.652

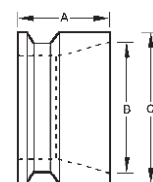
Clamp x Schedule 5S Weld Adapters

Size (Tube OD)	Part Number		Dimensions			
	304	316L	A	B	C	Pipe Wall
1 "	19MPV4-100	19MPV6-100	1.125	1.185	1.315	0.065
1-1/2"	19MPV4-150	19MPV6-150	1.125	1.770	1.900	0.065
2 "	19MPV4-200	19MPV6-200	1.125	2.245	2.375	0.065
2-1/2"	19MPV4-250	19MPV6-250	1.125	2.709	2.875	0.084
3 "	19MPV4-300	19MPV6-300	1.125	3.334	3.500	0.084
4 "	19MPV4-400	19MPV6-400	1.125	4.334	4.500	0.084



Clamp x Schedule 10S Weld Adapters

Size (Tube OD)	Part Number		Dimensions			
	304	316L	A	B	C	Pipe Wall
1/2"	19MPX4-050	19MPX6-050	1.125	0.622	0.84	0.109
3/4"	19MPX4-075	19MPX6-075	1.125	0.832	1.05	0.109
1 "	19MPX4-100	19MPX6-100	1.125	1.097	1.315	0.109
1-1/2"	19MPX4-150	19MPX6-150	1.125	1.682	1.900	0.109
2 "	19MPX4-200	19MPX6-200	1.125	2.157	2.375	0.109
2-1/2"	19MPX4-250	19MPX6-250	1.125	2.635	2.875	0.120
3 "	19MPX4-300	19MPX6-300	1.125	3.260	3.500	0.120
4 "	19MPX4-400	19MPX6-400	1.125	4.260	4.500	0.120

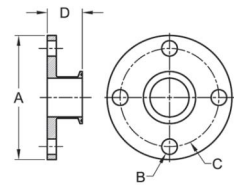


Notes:

- Schedule 40s available upon request.

Clamp Fittings

Clamp x 150# FF Flange Adapters

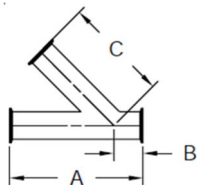


Size (Tube OD)	Part Number		Dimensions				
	304	316L	A	B	C	D	Holes Count
1 "	FLGTC4-100	FLGTC6-100	4.250	0.625	3.125	1.625	4
1-1/2"	FLGTC4-150	FLGTC6-150	5.000	0.625	3.875	1.625	4
2 "	FLGTC4-200	FLGTC6-200	6.000	0.750	4.750	1.750	4
2-1/2"	FLGTC4-250	FLGTC6-250	7.000	0.750	5.500	1.750	4
3 "	FLGTC4-300	FLGTC6-300	7.500	0.750	6.000	1.750	4
4 "	FLGTC4-400	FLGTC6-400	9.000	0.750	7.500	1.750	8
5 "	FLGTC4-500	FLGTC6-500	10.000	0.750	8.500	1.750	8
6 "	FLGTC4-600	FLGTC6-600	11.000	0.875	9.500	2.188	8
8 "	FLGTC4-800	FLGTC6-800	13.500	0.875	8.031	2.188	8

Notes:

- 150# Flange.

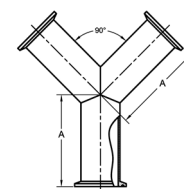
Clamp Laterals



Size (Tube OD)	Part Number		Dimensions		
	304	316L	A	B	C
1 "	28AMP4-100	28AMP6-100	7.000	1.500	5.500
1-1/2"	28AMP4-150	28AMP6-150	8.375	1.688	6.688
2 "	28AMP4-200	28AMP6-200	9.750	2.125	7.625
2-1/2"	28AMP4-250	28AMP6-250	11.000	2.000	9.000
3 "	28AMP4-300	28AMP6-300	11.750	2.375	9.375
4 "	28AMP4-400	28AMP6-400	14.062	2.640	11.312
6 "	28AMP4-600	28AMP6-600	19.750	4.375	15.375

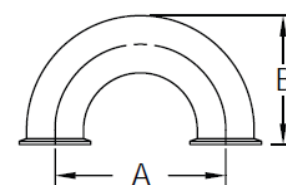
Clamp Fittings

Clamp True Wyes



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	A
1 "	28BMP4-100	28BMP6-100	2.500	2.938
1-1/2"	28BMP4-150	28BMP6-150	2.500	2.938
2 "	28BMP4-200	28BMP6-200	3.125	3.750
2-1/2"	28BMP4-250	28BMP6-250	3.870	4.625
3 "	28BMP4-300	28BMP6-300	4.500	5.375
4 "	28BMP4-400	28BMP6-400	6.000	6.000
6 "	28BMP4-600	28BMP6-600	8.875	8.875

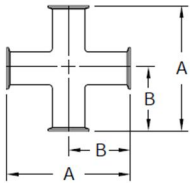
Clamp 180° Return Bends



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	R
1 "	2UMP4-100	2UMP6-100	3.000	2.500
1-1/2"	2UMP4-150	2UMP6-150	4.500	3.500
2 "	2UMP4-200	2UMP6-200	6.000	4.500
2-1/2"	2UMP4-250	2UMP6-250	7.500	5.500
3 "	2UMP4-300	2UMP6-300	9.000	6.500
4 "	2UMP4-400	2UMP6-400	12.000	8.625
6 "	2UMP4-600	2UMP6-600	18.000	12.875

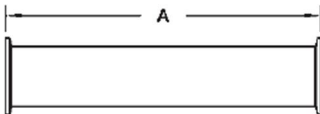
Clamp Fittings

Clamp Crosses



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	B
1 "	9MP4-100	9MP6-100	4.750	2.375
1-1/2"	9MP4-150	9MP6-150	5.500	2.750
2 "	9MP4-200	9MP6-200	7.000	3.500
2-1/2"	9MP4-250	9MP6-250	7.000	3.500
3 "	9MP4-300	9MP6-300	7.500	3.750
4 "	9MP4-400	9MP6-400	9.000	4.500

Polished Spool Assemblies



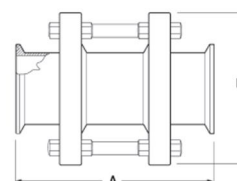
Size (Tube OD)	Part Number		Dimensions	
	304L	316L	A (min.)	A (max.)
1/2"	SPOOL4050	SPOOL6050	1.625	241.000
3/4"	SPOOL4075	SPOOL6075	1.625	241.000
1 "	SPOOL4100	SPOOL6100	1.625	241.000
1-1/2"	SPOOL4150	SPOOL6150	1.625	241.000
2 "	SPOOL4200	SPOOL6200	1.625	241.000
2-1/2"	SPOOL4250	SPOOL6250	1.625	241.000
3 "	SPOOL4300	SPOOL6300	1.625	241.000
4 "	SPOOL4400	SPOOL6400	2.250	241.000
6 "	SPOOL4600	SPOOL6600	3.000	241.000
8 "	SPOOL4800	SPOOL6800	3.000	241.000

Notes:

- Other configurations available upon request. Call Sanitube for information.

Clamp Sight Glasses

Size (Tube OD)	Part Number	Dimensions		Working Pressure (PSI)
		A	B	
1 "	TCSG-100	6.250	3.125	145
1-1/2"	TCSG-150	6.250	3.125	145
2 "	TCSG-200	6.375	4.000	145
2-1/2"	TCSG-250	6.875	4.500	120
3 "	TCSG-300	7.000	5.000	120
4 "	TCSG-400	6.750	6.000	95

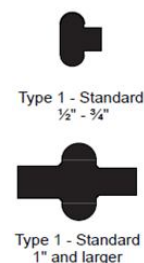


Notes:

- T316L Stainless Steel
- Pyrex Glass with Stainless Steel Safety Shield
- Field serviceable.
- Maximum operating temperature: 200°F.
- Maximum operating pressure: 95 to 145 PSI dependent on size.
- Working PSI/temp. assume absence of thermal shock.

Clamp Gaskets

Size (Tube OD)	Material			
	Buna	EPDM	Teflon®	Viton®
1/2"	GTCB-050	GTCE-050	GTCT-050	GTCV-050
3/4"	GTCB-075	GTCE-075	GTCT-075	GTCV-075
1 "	GTCB-100	GTCE-100	GTCT-100	GTCV-100
1-1/2"	GTCB-150	GTCE-150	GTCT-150	GTCV-150
2 "	GTCB-200	GTCE-200	GTCT-200	GTCV-200
2-1/2"	GTCB-250	GTCE-250	GTCT-250	GTCV-250
3 "	GTCB-300	GTCE-300	GTCT-300	GTCV-300
4 "	GTCB-400	GTCE-400	GTCT-400	GTCV-400
6 "	GTCB-600	GTCE-600	GTCT-600	GTCV-600
8 "	GTCB-800	GTCE-800	--	--



Notes:

- Refer to pg. 58 for compatibility information.

Bevel Seat Fittings

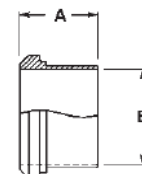


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Stainless Steel Tube, Valves and Fittings

Long Plain Bevel Seat Ferrules

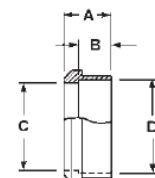


Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	B
1 "	14A4-100	14A6-100	1.375	0.870
1-1/2"	14A4-150	14A6-150	1.500	1.370
2 "	14A4-200	14A6-200	1.500	1.870
2-1/2"	14A4-250	14A6-250	1.750	2.370
3 "	14A4-300	14A6-300	1.750	2.870
4 "	14A4-400	14A6-400	1.750	3.834



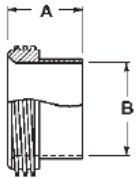
Recessed Plain Bevel Seat Ferrules

Size (Tube OD)	Part Number		Dimensions			
	304	316L	A	B	C	D
1-1/2"	14-150	--	0.875	0.625	1.370	1.500
2 "	14-200	--	0.969	0.688	1.870	2.000
2-1/2"	14-250	--	1.062	0.750	2.370	2.500
3 "	14-300	--	1.125	0.813	2.870	3.000
4 "	14-400	--	1.250	0.938	3.834	4.000



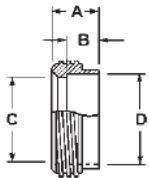
Bevel Seat Fittings

Long Threaded Bevel Seat Ferrules



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	B
1 "	15A4-100	15A6-100	1.375	0.870
1-1/2"	15A4-150	15A6-150	1.500	1.370
2 "	15A4-200	15A6-200	1.500	1.870
2-1/2"	15A4-250	15A6-250	1.750	2.370
3 "	15A4-300	15A6-300	1.750	2.870
4 "	15A4-400	15A6-400	1.750	3.834

Recessed Threaded Bevel Seat Ferrules

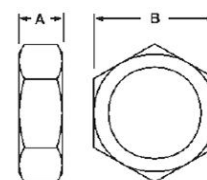
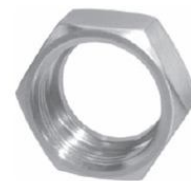


Size (Tube OD)	Part Number		Dimensions			
	304	316L	A	B	C	D
1 "	15-100	--	0.812	1.000	0.870	0.500
1-1/2"	15-150	--	0.875	0.625	1.370	1.500
2 "	15-200	--	1.031	0.687	1.870	2.000
2-1/2"	15-250	--	1.125	0.750	2.370	2.500
3 "	15-300	--	1.250	0.812	2.870	3.000
4 "	15-400	--	1.375	0.937	3.834	4.000

Bevel Seat Fittings

Union Hexagonal Nuts

Size (Tube OD)	Part Number	Dimensions	
		A	B
1 "	13H-100	0.906	1.812
1-1/2"	13H-150	0.968	2.406
2 "	13H-200	1.062	3.000
2-1/2"	13H-250	1.187	3.594
3 "	13H-300	1.281	4.188
4 "	13H-400	1.500	5.438



Notes:

- All Hex Nuts are T304 Stainless Steel.
- 400 PSI maximum tolerance.

Plain Bevel Seat Solid End Caps



Size (Tube OD)	Part Number		Dimensions A
	304	316L	
1 "	16A4-100	16A6-100	1.312
1-1/2"	16A4-150	16A6-150	1.843
2 "	16A4-200	16A6-200	2.375
2-1/2"	16A4-250	16A6-250	2.906
3 "	16A4-300	16A6-300	3.437
4 "	16A4-400	16A6-400	4.500



Bevel Seat Fittings

Teflon® Bevel Seat Gaskets



Size (Tube OD)	Part Number
1 "	GBST-100
1-1/2"	GBST-150
2 "	GBST-200
2-1/2"	GBST-250
3 "	GBST-300
4 "	GBST-400

Notes:

- PTFE (Teflon®) is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to their original configuration. They will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.
- Refer to Compound Selection Guide for compatibility information.

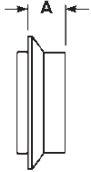
I-Line Fittings



sanitube™
Stainless Steel Tube, Valves and Fittings

I-Line Fittings

Male Short Weld I-Line Ferrules



Size (Tube OD)	Part Number		Dimensions A
	304	316L	
1 "	14WI4-100	--	0.600
1-1/2"	14WI4-150	--	0.765
2 "	14WI4-200	--	0.790
2-1/2"	14WI4-250	--	0.848
3 "	14WI4-300	--	0.906
4 "	14WI4-400	--	1.031

Female Short Weld I-Line Ferrules



Size (Tube OD)	Part Number		Dimensions A
	304	316L	
1 "	15WI4-100	--	0.785
1-1/2"	15WI4-150	--	0.950
2 "	15WI4-200	--	1.040
2-1/2"	15WI4-250	--	1.160
3 "	15WI4-300	--	1.220
4 "	15WI4-400	--	1.350

I-Line Fittings

Bolted I-Line Clamps

Size (Tube OD)	Part Number	Service Pressure Rating at 70°F	Service Pressure Rating at 250°F	Dimensions A
1" - 1-1/2"	13ILB-100-150	1,220	1,100	2.122
2 "	13ILB-200	900	830	2.654
2-1/2"	13ILB-250	720	660	3.185
3 "	13ILB-300	600	550	3.717
4 "	13ILB-400	570	525	4.820

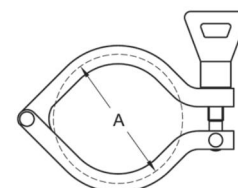


Notes:

- All clamps are T304 Stainless Steel.
- Pressure ratings assume nut tightened to 25 ft/lbs of torque.

Wingnut I-Line Clamps

Size (Tube OD)	Part Number	Service Pressure Rating at 70°F	Service Pressure Rating at 250°F	Dimensions A
1" - 1-1/2"	13IS-100-150	700	250	2.122
2 "	13IS-200	450	250	2.654
2-1/2"	13IS-250	450	200	3.185
3 "	13IS-300	350	150	3.717
4 "	13IS-400	200	125	4.820

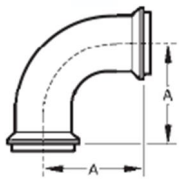


Notes:

- All clamps are T304 Stainless Steel.
- Pressure ratings assume nut tightened to 25 in./lbs of torque.

I-Line Fittings

Male I-Line 90° Elbows

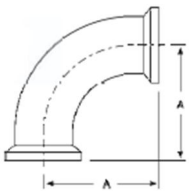


Size (Tube OD)	Part Number		Dimensions A
	304	316L	
1 "	2EI4-100	2EI6-100	2.093
1-1/2"	2EI4-150	2EI6-150	3.000
2 "	2EI4-200	2EI6-200	3.781
2-1/2"	2EI4-250	2EI6-250	4.593
3 "	2EI4-300	2EI6-300	5.406
4 "	2EI4-400	2EI6-400	7.031

Notes:

- Other configurations available upon request. Call Sanitube for information.

Female I-Line 90° Elbows



Size (Tube OD)	Part Number		Dimensions A
	304	316L	
1 "	2CI4-100	2CI6-100	2.281
1-1/2"	2CI4-150	2CI6-150	3.188
2 "	2CI4-200	2CI6-200	4.031
2-1/2"	2CI4-250	2CI6-250	4.906
3 "	2CI4-300	2CI6-300	5.718
4 "	2CI4-400	2CI6-400	7.344

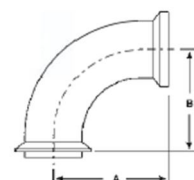
Notes:

- Other configurations available upon request. Call Sanitube for information.

Female x Male I-Line 90° Elbows



Size (Tube OD)	Part Number		Dimensions	
	304	316L	A	B
1 "	2FI4-100	2FI6-100	2.281	2.093
1-1/2"	2FI4-150	2FI6-150	3.188	3.000
2 "	2FI4-200	2FI6-200	4.031	3.781
2-1/2"	2FI4-250	2FI6-250	4.906	4.593
3 "	2FI4-300	2FI6-300	5.718	5.406
4 "	2FI4-400	2FI6-400	7.344	7.031

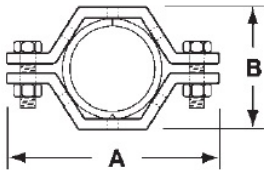


Notes:

- Other configurations available upon request. Call Sanitube for information.

Hangers

Hexagonal Tube Hangers with Inserts

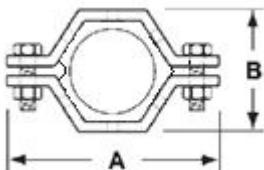


Notes:

- Hanger base is T304 stainless steel. Insert material is Polypropylene.
- Sleeve maximum temperature: 230°F.

Size (Tube OD)	Part Number	Dimensions	
		A	B
1/2"	T24-050	2.800	1.150
3/4"	T24-075	2.800	1.150
1 "	T24-100	3.425	1.450
1-1/2"	T24-150	4.000	2.125
2 "	T24-200	4.500	2.500
2-1/2"	T24-250	4.950	3.125
3 "	T24-300	5.500	3.750
4 "	T24-400	6.950	4.750
6 "	T24-600	9.250	6.625
8 "	T24-800	11.500	8.625

Hexagonal Pipe Hangers with Inserts



Notes:

- Hanger base is T304 stainless steel. Insert material is Polypropylene.
- Sleeve maximum temperature: 230°F.

Size (NPS)	Part Number	Dimensions	
		A	B
1 "	P24-100	3.688	1.875
1-1/2"	P24-150	4.313	2.563
2 "	P24-200	4.875	3.125
2-1/2"	P24-250	5.375	3.875
3 "	P24-300	6.063	4.250
4 "	P24-400	7.438	5.250
6 "	P24-600	9.750	7.735
8 "	P24-800	12.250	9.375

Stationary Spray Balls

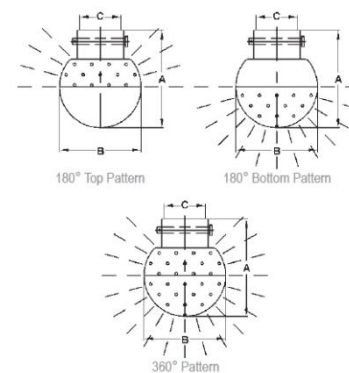
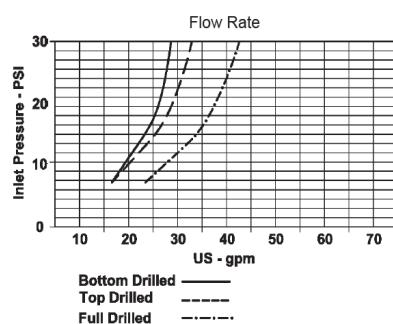
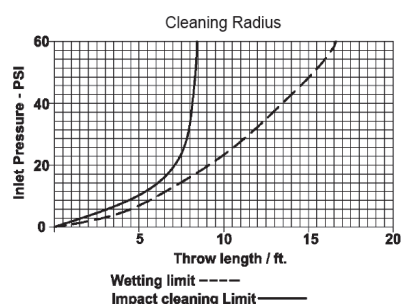
Size (Tube OD) Slip & Pin	Spray Pattern			Dimensions		
	360°	180° Top	180° Bottom	A	B	C
1 "	STC-100-360	--	--	3.040	2.450	1.005
1 "	--	STC-100-180T	STC-100-180B	3.540	2.950	1.005
1-1/2"	STC-150-360	STC-150-180T	STC-150-180B	3.540	2.950	1.505



*180° Pattern Shown

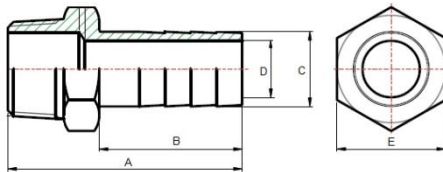
Notes:

- Sanitube spray balls are stationary. They are designed to be mounted to a tube or pipe.
- All spray balls are 100% T316L stainless steel, polished to a 180 grit finish on the inside and outside.



King Nipples

King Combination Nipples



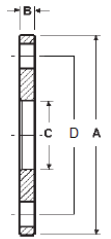
Size (Tube OD)	Part Number	Dimensions				
		A	B	C	D	E
1/4"	RST-025	1.575	0.930	0.354	0.276	0.630
3/8"	RST-0375	1.634	1.120	0.433	0.433	0.750
1/2"	RST-050	2.460	1.460	0.570	0.570	0.980
3/4"	RST-075	2.850	1.690	0.810	0.570	1.220
1 "	RST-100	3.230	1.970	1.050	0.790	1.500
1-1/4"	RST-125	3.150	2.090	1.340	1.060	1.810
1-1/2"	RST-150	3.640	2.200	1.590	1.300	2.050
2 "	RST-200	4.310	2.760	2.070	1.770	2.560
2-1/2"	RST-250	5.350	3.660	2.520	2.080	3.150
3 "	RST-300	5.790	3.820	3.070	2.760	3.780
4 "	RST-400	6.220	4.090	4.090	3.540	4.720

Notes:

- All king combination nipples are 100% T316L stainless steel.
- Combination nipples are recommended for low-pressure discharge and suction service for compatible liquids. They are not for compressible products such as air or nitrogen on sizes 1¼" and above.
- King Combination Nipples are not recommended for steam.
- The working pressure may vary with the construction of the hose, the type of clamping system used and the application.
- In accordance with the Rubber Manufacturers Association bulletin for oil suction and discharge hose, a coupled length of hose in any size should be tested to 1½ times the working pressure and held for fifteen minutes without leaking or coupling movement. For additional information and detailed instruction on testing procedures, see the RMA handbook.

1/2 Inch Thick Tube Flanges

Size (Tube OD)	Part Number		Dimensions				Holes	
	304	316L	A	B	C	D	Diameter	Count
1 "	38SL4-100	38SL6-100	4.250	0.500	1.031	3.125	5/8"	4
1-1/2"	38SL4-150	38SL6-150	5.000	0.500	1.531	3.875	5/8"	4
2 "	38SL4-200	38SL6-200	6.000	0.500	2.031	4.750	3/4"	4
2-1/2"	38SL4-250	38SL6-250	7.000	0.500	2.531	5.500	3/4"	4
3 "	38SL4-300	38SL6-300	7.500	0.500	3.031	6.000	3/4"	4
4 "	38SL4-400	38SL6-400	9.000	0.500	4.031	7.500	3/4"	8
5 "	38SL4-500	38SL6-500	10.000	0.500	5.031	8.500	3/4"	8
6 "	38SL4-600	38SL6-600	11.000	0.500	6.031	9.500	7/8"	8
8 "	38SL4-800	38SL6-800	13.500	0.500	8.031	11.750	7/8"	8
10 "	38SL4-1000	38SL6-1000	16.000	0.500	10.031	14.250	1 "	12
12 "	38SL4-1200	38SL6-1200	19.000	0.500	12.063	17.000	1 "	12



Notes:

- 150# Flange.

Plate Flanges

1/2 Inch Thick Blind Flanges



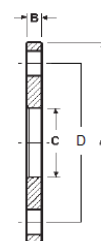
Size (NPS)	Part Number		Dimensions			Holes	
	304	316L	A	B	C	Diameter	Count
1 "	B41-100	B61-100	4.250	0.500	3.125	5/8"	4
1-1/2"	B41-150	B61-150	5.000	0.500	3.875	5/8"	4
2 "	B41-200	B61-200	6.000	0.500	4.750	3/4"	4
2-1/2"	B41-250	B61-250	7.000	0.500	5.500	3/4"	4
3 "	B41-300	B61-300	7.500	0.500	6.000	3/4"	4
4 "	B41-400	B61-400	9.000	0.500	7.500	3/4"	8
5 "	B41-500	B61-500	10.000	0.500	8.500	3/4"	8
6 "	B41-600	B61-600	11.000	0.500	9.500	7/8"	8
8 "	B41-800	B61-800	13.500	0.500	11.750	7/8"	8
10 "	B41-1000	B61-1000	16.000	0.500	14.250	1 "	12
12 "	B41-1200	B61-1200	19.000	0.500	17.000	1 "	12
14 "	B41-1400	B61-1400	21.000	0.500	18.750	1-1/8"	12
16 "	B41-1600	B61-1600	23.500	0.500	21.250	1-1/8"	16
18 "	B41-1800	B61-1800	25.000	0.500	22.750	1-1/4"	16
20 "	B41-2000	B61-2000	27.500	0.500	25.000	1-1/4"	20
24 "	B41-2400	B61-2400	32.000	0.500	29.500	1-3/8"	20

Notes:

- 150# Flange.

1/2 Inch Thick Pipe Flanges

Size (NPS)	Part Number		Dimensions				Holes	
	304	316L	A	B	C	D	Diameter	Count
1 "	P41-100	P61-100	4.250	0.500	1.360	3.125	5/8"	4
1-1/4"	P41-125	P61-125	4.625	0.500	1.700	3.500	5/8"	4
1-1/2"	P41-150	P61-150	5.000	0.500	1.950	3.875	5/8"	4
2 "	P41-200	P61-200	6.000	0.500	2.440	4.750	3/4"	4
2-1/2"	P41-250	P61-250	7.000	0.500	2.940	5.500	3/4"	4
3 "	P41-300	P61-300	7.500	0.500	3.570	6.000	3/4"	4
4 "	P41-400	P61-400	9.000	0.500	4.570	7.500	3/4"	8
5 "	P41-500	P61-500	10.000	0.500	5.660	8.500	7/8"	8
6 "	P41-600	P61-600	11.000	0.500	6.720	9.500	7/8"	8
8 "	P41-800	P61-800	13.500	0.500	8.720	11.750	7/8"	8
10 "	P41-1000	P61-1000	16.000	0.500	10.880	14.250	1 "	12
12 "	P41-1200	P61-1200	19.000	0.500	12.880	17.000	1 "	12
14 "	P41-1400	P61-1400	21.000	0.500	14.140	18.750	1-1/8"	12
16 "	P41-1600	P61-1600	23.500	0.500	16.160	21.250	1-1/8"	16
18 "	P41-1800	P61-1800	25.000	0.500	18.180	22.750	1-1/4"	16
20 "	P41-2000	P61-2000	27.500	0.500	20.200	25.000	1-1/4"	20
24 "	P41-2400	P61-2400	32.000	0.500	24.250	29.500	1-3/8"	20

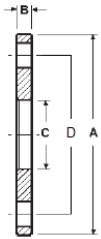


Notes:

- 150# Flange.

Plate Flanges

3/4 Inch Thick Pipe Flanges



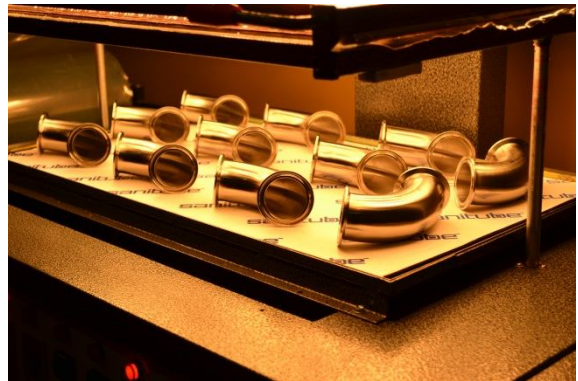
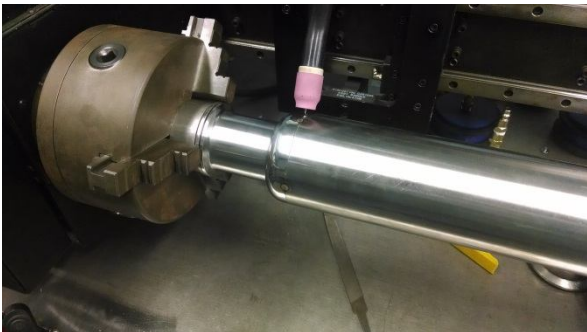
Size (NPS)	Part Number		Dimensions				Holes	
	304	316L	A	B	C	D	Diameter	Count
2 "	P43-200	P63-200	6.000	0.750	2.440	4.750	3/4"	4
3 "	P43-300	P63-300	7.500	0.750	3.570	6.000	3/4"	4
4 "	P43-400	P63-400	9.000	0.750	4.570	7.500	3/4"	8
6 "	P43-600	P63-600	11.000	0.750	6.720	9.500	7/8"	8
8 "	P43-800	P63-800	13.500	0.750	8.720	11.750	7/8"	8
10 "	P43-1000	P63-1000	16.000	0.750	10.880	14.250	1 "	12
12 "	P43-1200	P63-1200	19.000	0.750	12.880	17.000	1 "	12
14 "	P43-1400	P63-1400	21.000	0.750	14.140	18.750	1-1/8"	12
16 "	P43-1600	P63-1600	23.500	0.750	16.160	21.250	1-1/8"	16
18 "	P43-1800	P63-1800	25.000	0.750	18.180	22.750	1-1/4"	16
20 "	P43-2000	P63-2000	27.500	0.750	20.200	25.000	1-1/4"	20
24 "	P43-2400	P63-2400	32.000	0.750	24.250	29.500	1-3/8"	20

Notes:

- 150# Flange.

Custom Fabrication

Sanitube is proud to introduce its new state of the art custom fitting fabrication facility. The production of non-standard fittings now allows Sanitube to offer distributors a single source for not only standard tubing, valves, and fittings, but also custom, made-to-order spool pieces, custom fitting configurations, and cut to length tubing. Sanitube utilizes modern, technologically advanced welding and fabrication equipment to manufacture superior quality sanitary fittings with one of the lowest lead times in the industry. Contact your Sanitube sales representative with your custom requirements today!



Sanitary Valves



sanitubeTM
Stainless Steel Tube, Valves and Fittings

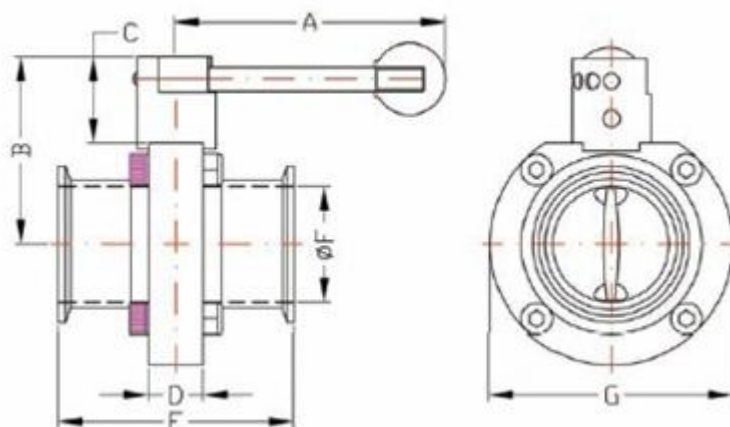
Clamp Butterfly Valve

Key Features:

- T316 Stainless Steel
- Information supplied based on water media at 68°F.
- All wetted surfaces are sanitary finished to < 32Ra.
- Field serviceable.
- Seat materials available in EPDM or Viton®.
- Minimal line pressure: 0.4 inches Hg vacuum.
- Operating temperature range: 15°F to 200°F.

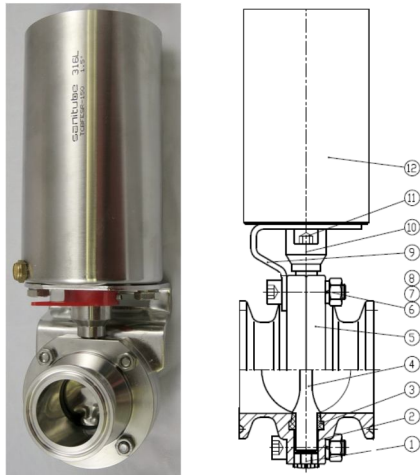


Size (Tube OD)	Part Number		Dimensions							Break Torque in/lbs	Pressure Rating (PSI)	Flow Coefficient (CV)
	EPDM	Viton®	A	B	C	D	E	F	G			
1 "	TCBFE-100	TCBFV-100	4.400	2.800	1.400	0.900	2.598	0.900	3.100	75	140	23
1-1/2"	TCBFE-150	TCBFV-150	4.400	2.800	1.400	0.900	2.756	1.400	3.100	130	140	80
2 "	TCBFE-200	TCBFV-200	4.400	3.100	1.400	0.900	2.756	1.900	3.900	165	140	230
2-1/2"	TCBFE-250	TCBFV-250	4.400	3.500	1.400	0.900	3.071	2.400	4.600	210	110	264
3 "	TCBFE-300	TCBFV-300	6.200	3.800	1.300	1.200	3.150	2.900	5.200	350	110	372
4 "	TCBFE-400	TCBFV-400	6.200	4.500	1.300	1.200	3.465	3.800	6.700	540	85	800
6 "	TCBFE-600	TCBFV-600	11.500	5.500	1.300	1.200	4.646	5.800	8.500	1,550	60	1,200
8 "	TCBFE-800	TCBFV-800	11.000	8.000	2.000	1.500	5.250	7.800	11.000	1,650	60	2,800



Sanitary Butterfly Valves

Actuated Clamp Butterfly Valve



Key Features:

- T316 Stainless Steel
- Information supplied based on water media at 68°F.
- All wetted surfaces are sanitary finished to < 32Ra.
- Field serviceable.
- Seat materials available in EPDM or Viton®.
- Minimum supply air line pressure 80 PSI.
- Operating temperature range: 15°F to 200°F.

Component	Description	Material
1	Plug	ABS
2	Bearing	PTFE
3	Seal Ring	Silastic
4	Disc	CF8/CF8M
5	Body	CF8/CF8M
6	Bolt	304
7	Nut	304
8	Washers	304
9	Brackets	304
10	Coupling Shaft	304
11	Bolt	304
12	Pneumatic Device	

Actuator Specifications	Double Acting (Replace "SR" Part Code Suffix with "DA")	Spring Return
Weight	5.1	6.0
Air Consumption (Down Stroke-CW)	8.5	8.5
Air Consumption (Up Stroke-CCW)	20	18.5
Temperature Rating Maximum	200°F	200°F
Temperature Rating Minimum	15°F	15°F
Output Torque (in-lbs)	350	350
Maximum Pressure Rating (psi)	120	120
Supply Pressure Required (psi)	80-100	80-100
Diameter (inches)	3.35	3.35
Height (inches)	5.83	5.83
Air Fitting Ports	1/8" FNPT	1/8" FNPT

Size (Tube OD)	Part Number		Dimensions			
	EPDM	VITON	Clamp to Clamp	Body Width	Overall Height	Height Center to Top
1 "	TCBFESR-100	TCBFVSR-100	2.598	3.100	10.250	8.563
1-1/2"	TCBFESR-150	TCBFVSR-150	2.756	3.100	10.250	8.563
2 "	TCBFESR-200	TCBFVSR-200	2.756	3.900	11.000	9.000
2-1/2"	TCBFESR-250	TCBFVSR-250	3.071	4.600	11.375	9.250
3 "	TCBFESR-300	TCBFVSR-300	3.150	5.200	12.250	10.250
4 "	TCBFESR-400	TCBFVSR-400	3.465	6.700	13.500	10.250

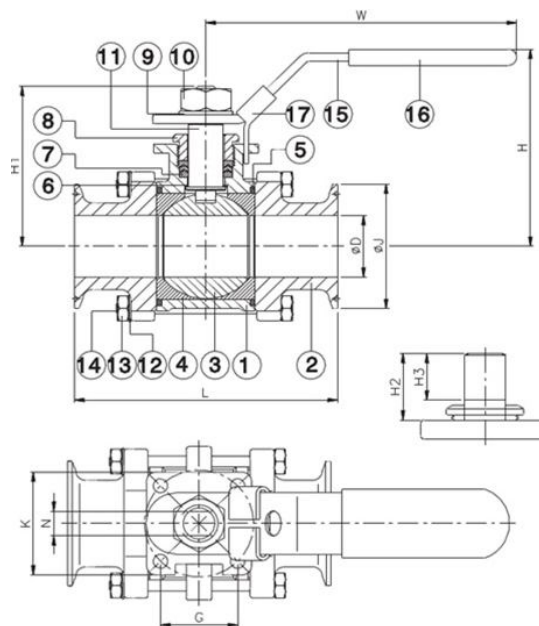


Key Features:

- Clamp end.
- Body Working Pressure: 1000 PSI WOG.
- Clamp End Working Pressure: 200 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Blow-out proof stem.
- Fully Encapsulated.
- Locking handle.
- ISO 5211 mounting pad.



Component	Description	Material
1	Body	T316 Stainless Steel
2	Cap	T316 Stainless Steel
3	Ball	T316 Stainless Steel
4	Seat	PTFE
5	Seal	PTFE
6	Thrust Washer	PTFE
7	Stem Packing	PTFE
8	Gland Nut	T304 Stainless Steel
9	Spring Washer	T304 Stainless Steel
10	Stem Nut	T304 Stainless Steel
11	Stem	T316 Stainless Steel
12	Spring Washer	T304 Stainless Steel
13	Nut	T304 Stainless Steel
14	Bolt	T304 Stainless Steel
15	Handle	T304 Stainless Steel
16	Handle Sleeve	PVC
17	Locking Device	T304 Stainless Steel



Size (Tube OD)	Part Number	Dimensions												Torque (in/lb)		Weight (lbs.)
		D	W	H	H1	H2	H3	L	G	K	J	N	ISO 5211	Break away	Action	
1/2"	TCBVS-050	0.380	5.560	2.500	1.910	0.710	0.510	3.583	1.000	1.460	1.000	0.260	F03	31	20	1.7
3/4"	TCBVS-075	0.620	5.560	2.620	2.040	0.740	0.510	4.016	1.000	1.460	1.000	0.260	F03	47	32	2.1
1 "	TCBVS-100	0.870	5.560	2.730	2.150	0.710	0.510	4.528	1.170	1.650	1.990	0.260	F04	105	58	3.0
1-1/2"	TCBVS-150	1.370	7.410	3.960	3.250	1.180	0.770	5.433	1.390	1.970	1.990	0.330	F05	238	115	5.9
2 "	TCBVS-200	1.880	7.410	4.350	3.600	1.140	0.770	6.181	1.390	1.970	2.520	0.330	F05	256	115	9.2
2-1/2"	TCBVS-250	2.370	10.240	5.480	4.610	1.480	1.020	6.693	1.950	2.830	3.050	0.470	F07	900	288	19.2
3 "	TCBVS-300	2.870	10.240	5.830	4.990	1.500	1.020	7.756	1.950	2.830	3.580	0.470	F07	1,650	230	31.3
4 "	TCBVS-400	3.840	11.610	6.890	6.380	2.050	1.380	9.528	2.840	3.700	4.690	0.630	F10	2,027	345	45.2

Sanitube Ball Valves

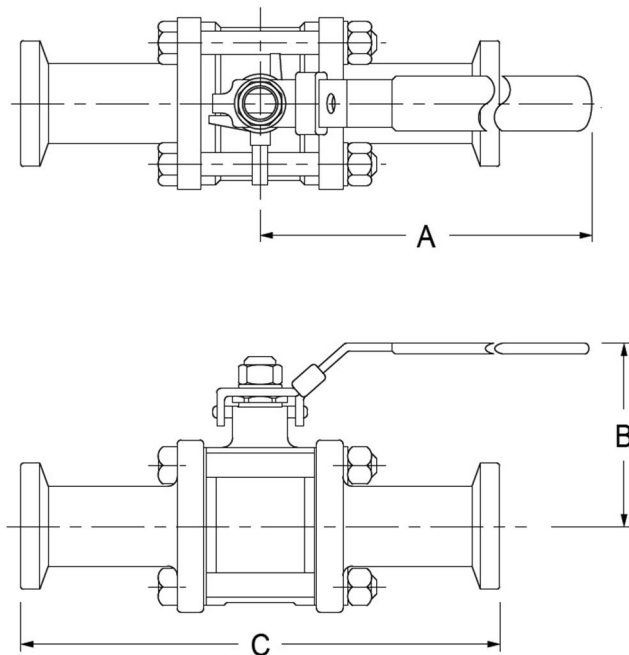
Three Piece Non-Encapsulated Clamp Ball Valve



Key Features:

- Clamp end.
- Body Working Pressure: 1000 PSI WOG.
- Clamp End Working Pressure: 200 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Blow-out proof stem.
- Cavity filled.
- Locking handle.

Size (Tube OD)	Part Number	Dimensions			Torque (in/lb)		Weight (lbs.)
		A	B	C	Breakaway	Action	
1/2"	TCBV-050	0.380	5.560	3.750	55	20	1.4
3/4"	TCBV-075	0.620	5.560	4.135	71	32	1.8
1 "	TCBV-100	0.870	5.560	4.135	101	58	2.6
1-1/2"	TCBV-150	1.370	7.410	4.920	221	115	4.6
2 "	TCBV-200	1.880	7.410	5.905	345	115	8.5
2-1/2"	TCBV-250	2.370	10.240	7.500	883	288	17.8
3 "	TCBV-300	2.870	10.240	8.660	830	230	28.2
4 "	TCBV-400	3.840	11.610	9.512	1,323	345	41.4



Component	Description	Material
1	Body	T316 Stainless Steel
2	Cap	T316 Stainless Steel
3	Ball	T316 Stainless Steel
4	Seat	PTFE
5	Thrust Washer	PTFE
6	Stem Packing	PTFE
7	Spring Washer	T304 Stainless Steel
8	Stem Nut	T304 Stainless Steel
9	Stem	T316 Stainless Steel
10	Spring Washer	T304 Stainless Steel
11	Nut	T304 Stainless Steel
12	Bolt	T304 Stainless Steel
13	Handle	T304 Stainless Steel
14	Handle Sleeve	PVC

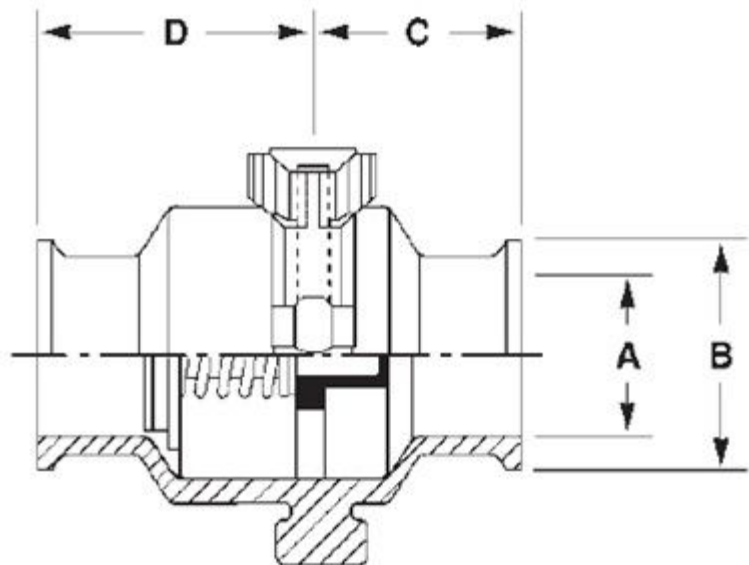


Key Features:

- T316 Stainless Steel
- Full size flow plate.
- Long stem bushing for increased cycle life.
- Suitable for low and medium viscosity fluids.
- Field serviceable. Viton seat & seals and repair kits also available.
- Maximum operating temperature: 200°F.
- Maximum operating pressure: 145 PSI.



Size (Tube OD)	Part Number	Dimensions			Cracking Pressure (PSI)	Flow Coefficient (CV)
		A	B	C+D		
1 "	TCCV-100	0.870	1.990	4.189	1.6	20
1-1/2"	TCCV-150	1.370	1.988	4.189	1.6	20
2 "	TCCV-200	1.870	2.519	4.583	1.4	40
2-1/2"	TCCV-250	2.370	3.051	4.740	0.9	60
3 "	TCCV-300	2.870	3.582	4.976	0.5	100
4 "	TCCV-400	3.834	4.682	5.583	0.5	210
6 "	TCCV-600	5.782	6.630	6.260	Call	



Industrial Valves



sanitube™

Stainless Steel Tube, Valves and Fittings

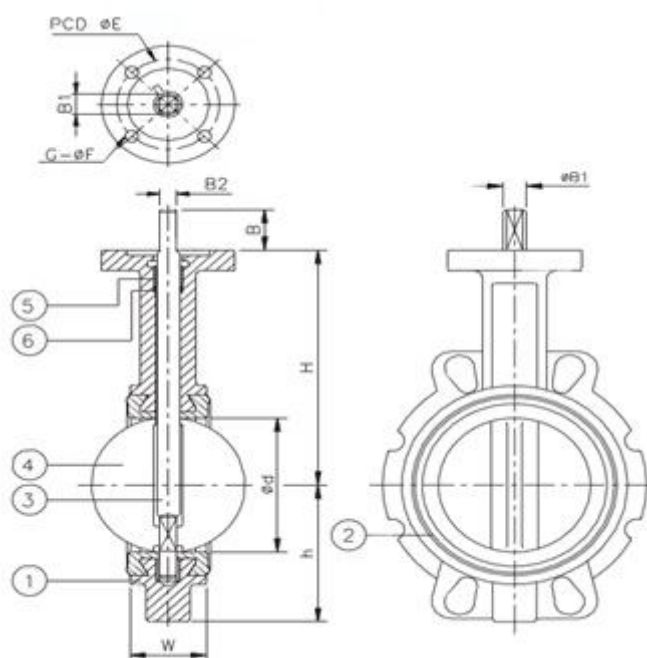
Key Features:

- Working Pressure: 232 PSI.
- ANSI Class 150#.
- Lever operated.



Size (NPS)	Part Number	Dimensions										Break Torque in/lbs @ 145 PSI
		h	H	B	B1	B2	W	d	E	F	G	
2 "	WBFE-200	3.346	5.315	1.260	0.512	0.315	1.693	2.205	2.756	0.394	0.157	115
2-1/2"	WBFE-250	3.543	5.709	1.260	0.512	0.315	1.811	2.756	2.756	0.394	0.157	150
3 "	WBFE-300	3.858	5.984	1.260	0.512	0.315	1.811	3.189	2.756	0.394	0.157	248
4 "	WBFE-400	4.409	6.693	1.260	0.630	0.433	2.047	4.055	2.756	0.394	0.157	372
6 "	WBFE-600	5.512	7.874	1.260	0.630	0.433	2.205	5.866	2.756	0.394	0.157	779
8 "	WBFE-800	6.693	9.055	1.339	0.748	0.512	2.362	7.598	4.016	0.472	0.157	1,460

Component	Description	Material
1	Body	Cast Iron
2	Liner	EPDM
3	Stem	T316 Stainless Steel
4	Disc	T316 Stainless Steel
5	Bushing	Nylon
6	O-Ring	EPDM-NBR



Butterfly Valves

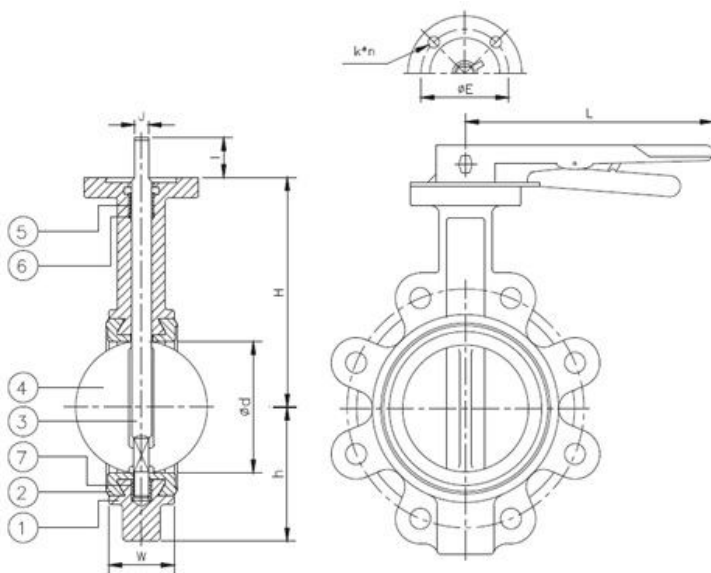
Lug Style Butterfly Valve



Key Features:

- Working Pressure: 232 PSI.
- ANSI Class 150#.
- Lever operated.

Size (NPS)	Part Number		Dimensions									Break Torque in/lbs @ 145
	EPDM	Viton®	d	h	H	W	I	J	E	L	k x n	
2 "	LBFE-200	LBFV-200	2.205	3.346	5.236	1.693	1.260	0.315	2.756	8.858	0.394 x 0.157	204
2-1/2"	LBFE-250	LBFV-250	2.756	3.543	5.709	1.811	1.260	0.315	2.756	8.858	0.394 x 0.157	283
3 "	LBFE-300	LBFV-300	3.189	3.858	5.984	1.811	1.260	0.315	2.756	8.858	0.394 x 0.157	319
4 "	LBFE-400	LBFV-400	4.055	4.409	6.693	2.047	1.260	0.433	2.756	8.858	0.394 x 0.157	425
6 "	LBFE-600	LBFV-600	5.866	5.512	7.874	2.205	1.260	0.433	2.756	8.858	0.394 x 0.157	779
8 "	LBFE-800	LBFV-800	7.598	6.693	9.055	2.362	1.339	0.512	4.016	13.583	0.472 x 0.157	1,664



Component	Description	Material
1	Body	Cast Iron
2	Seat	See Above
3	Stem	T316 Stainless Steel
4	Disc	T316 Stainless Steel
5	Bushing	Cast Iron
6	O-Ring	NBR
7	Bottom Bushing	Bronze

Lug Style Spring Return Pneumatic Butterfly Valve

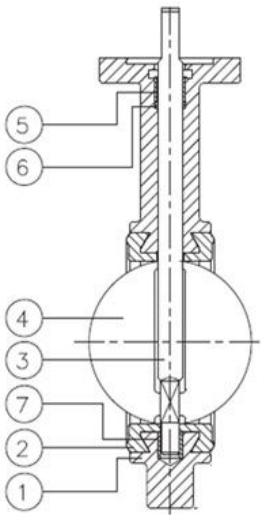
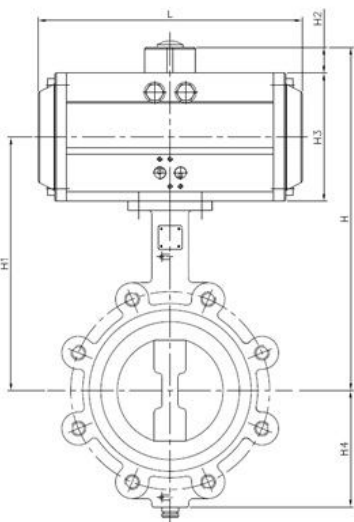
Key Features:

- Working Pressure: 232 PSI.
- ANSI Class 150#.
- Actuator air supply pressure: 72.5 PSI.



Size (NPS)	Part Number		Dimensions					
	EPDM	Viton®	L	H	H1	H2	H3	H4
2 "	ABFSRE-200	ABFSRV-200	8.310	11.460	8.520	0.790	4.290	2.990
3 "	ABFSRE-300	ABFSRV-300	10.200	12.640	9.490	0.790	4.720	3.740
4 "	ABFSRE-400	ABFSRV-400	13.390	14.760	10.930	0.790	6.100	4.490
6 "	ABFSRE-600	ABFSRV-600	18.700	17.400	12.740	0.790	7.760	5.510

Component	Description	Material
1	Body	Cast Iron
2	Seat	Viton®
3	Stem	T316 Stainless Steel
4	Disc	T316 Stainless Steel
5	Bushing	Cast Iron
6	O-Ring	NBR
7	Bottom Bushing	Bronze



Butterfly Valves

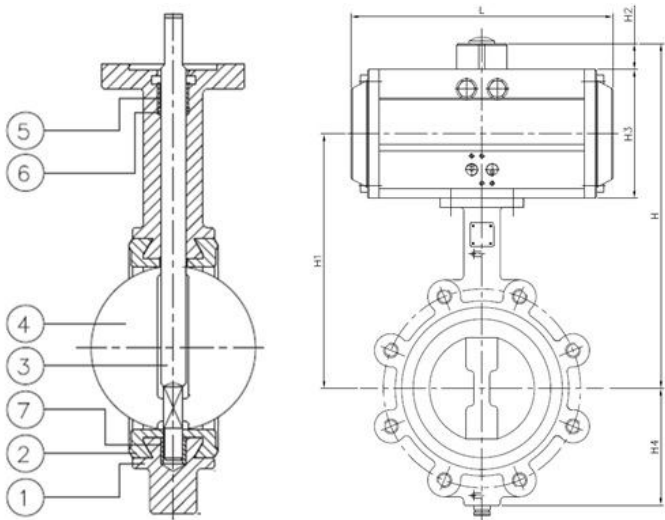
Lug Style Double Acting Pneumatic Butterfly Valve



Key Features:

- Working Pressure: 232 PSI.
- ANSI Class 150#.
- Actuator air supply pressure: 72.5 PSI.

Size (NPS)	Part Number		Dimensions					
	EPDM	Viton®	L	H	H1	H2	H3	H4
2 "	ABFDAE-200	ABFDAV-200	7.480	10.630	8.110	0.790	3.460	2.990
3 "	ABFDAE-300	ABFDAV-300	8.090	11.850	9.090	0.790	3.940	3.740
4 "	ABFDAE-400	ABFDAV-400	10.200	13.390	10.240	0.790	4.720	4.490
6 "	ABFDAE-600	ABFDAV-600	13.390	15.750	11.910	0.790	6.100	5.510



Component	Description	Material
1	Body	Cast Iron
2	Seat	Viton®
3	Stem	T316 Stainless Steel
4	Disc	T316 Stainless Steel
5	Bushing	Cast Iron
6	O-Ring	NBR
7	Bottom Bushing	Bronze

One Piece Threaded Ball Valve

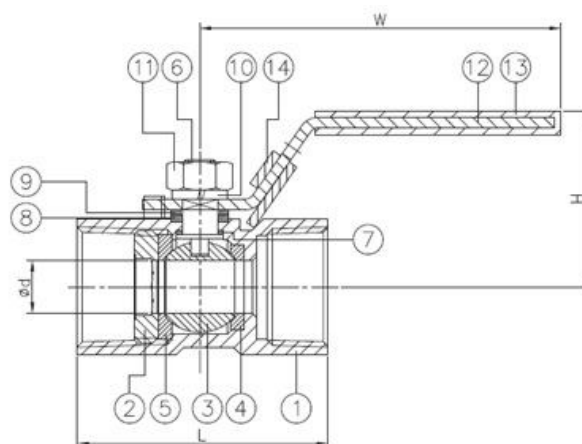
Key Features:

- Reduced port.
- Working Pressure: 1000 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Blow-out proof stem.
- Anti-static device.
- Locking device.
- Thread type: ASTM B1.20.1 (NPT).



Size (NPS)	Part Number	Dimensions			
		d	L	W	H
1/4"	BV1-025	0.200	1.540	2.800	1.300
3/8"	BV1-0375	0.280	1.730	3.580	1.380
1/2"	BV1-050	0.360	2.170	3.740	1.570
3/4"	BV1-075	0.490	2.320	3.740	1.730
1 "	BV1-100	0.590	2.720	4.450	1.970
1-1/4"	BV1-125	0.790	3.030	4.450	2.240
1-1/2"	BV1-150	0.980	3.190	5.550	2.520
2 "	BV1-200	1.260	3.820	5.550	2.680
3 "	BV1-300	1.970	6.020	7.480	3.540

Component	Description	Material
1	Body	T316 Stainless Steel
2	Retainer	T316 Stainless Steel
3	Ball	T316 Stainless Steel
4	Seat A	PTFE/RTFE
5	Seat B	PTFE/RTFE
6	Stem	T316 Stainless Steel
7	Thrust Washer	PTFE
8	Packing	PTFE
9	Gland Ring	T304 Stainless Steel
10	Spring Washer	T304 Stainless Steel
11	Stem Nut	T304 Stainless Steel
12	Handle	T304 Stainless Steel
13	Handle Sleeve	Plastic



Ball Valves

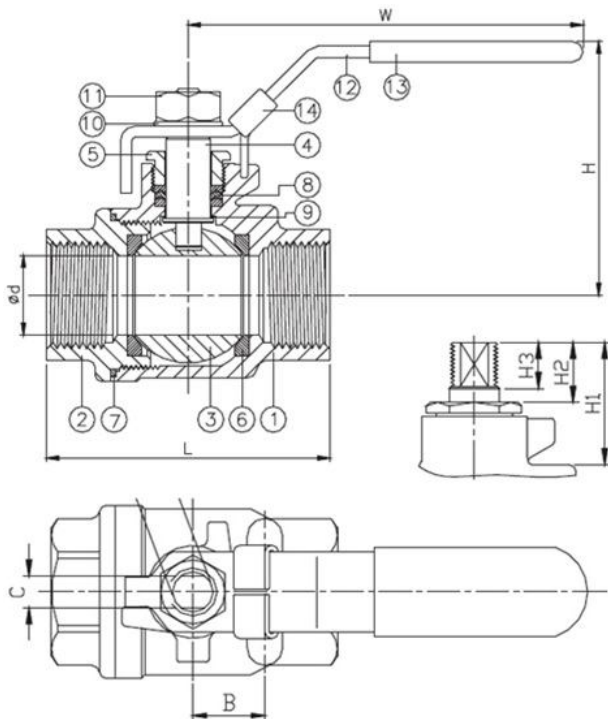
Two Piece Threaded Ball Valve



Key Features:

- Full port.
- Working Pressure: 1000 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Blow-out proof stem.
- Anti-static device.
- Locking device.
- Thread type: ASME B1.20.1 (NPT).

Size (NPS)	Part Number	Dimensions										Torque (in/lbs)
		d	L	H	W	B	C	H1	H2	H3	T	
1/4"	BV2T-025	0.460	2.380	1.970	4.020	0.550	0.200	1.280	0.490	0.410	5/16"W	36
3/8"	BV2T-0375	0.510	2.380	1.970	4.020	0.550	0.200	1.280	0.490	0.410	5/16"W	36
1/2"	BV2T-050	0.590	2.520	1.970	4.020	0.550	0.200	1.280	0.490	0.410	5/16"W	39
3/4"	BV2T-075	0.790	3.030	2.440	4.720	0.870	0.260	1.590	0.630	0.530	3/8"W	52
1 "	BV2T-100	0.980	3.540	2.970	6.260	0.870	0.310	1.970	0.710	0.610	7/16"W	65
1-1/4"	BV2T-125	1.260	3.940	3.190	6.260	0.940	0.310	1.930	0.670	0.610	7/16"W	78
1-1/2"	BV2T-150	1.500	4.650	3.860	7.400	0.940	0.350	2.360	0.750	0.690	1/2"W	117
2 "	BV2T-200	1.970	5.430	4.250	7.400	0.940	0.350	2.440	0.790	0.690	1/2"W	143
2-1/2"	BV2T-250	2.560	6.560	5.350	9.650	1.380	0.470	3.110	1.220	1.200	3/4"W	390
3 "	BV2T-300	3.150	7.600	5.790	9.650	1.380	0.470	3.090	1.220	1.200	3/4"W	412
4 "	BV2T-400	3.940	10.240	7.200	12.600	1.970	0.630	3.900	2.090	1.650	1"W	--



Component	Description	Material
1	Body	T316 Stainless Steel
2	Cap	T316 Stainless Steel
3	Ball	T316 Stainless Steel
4	Stem	T316 Stainless Steel
5	Gland Nut	T304 Stainless Steel
6	Seat	PTFE/RTFE
7	Seal	PTFE
8	Packing	PTFE/RTFE
9	Thrust Washer	PTFE
10	Spring Washer	T304 Stainless Steel
11	Nut	T304 Stainless Steel
12	Handle	T304 Stainless Steel
13	Handle Sleeve	PVC
14	Locking Device	T304 Stainless Steel

Three Piece Threaded Ball Valve

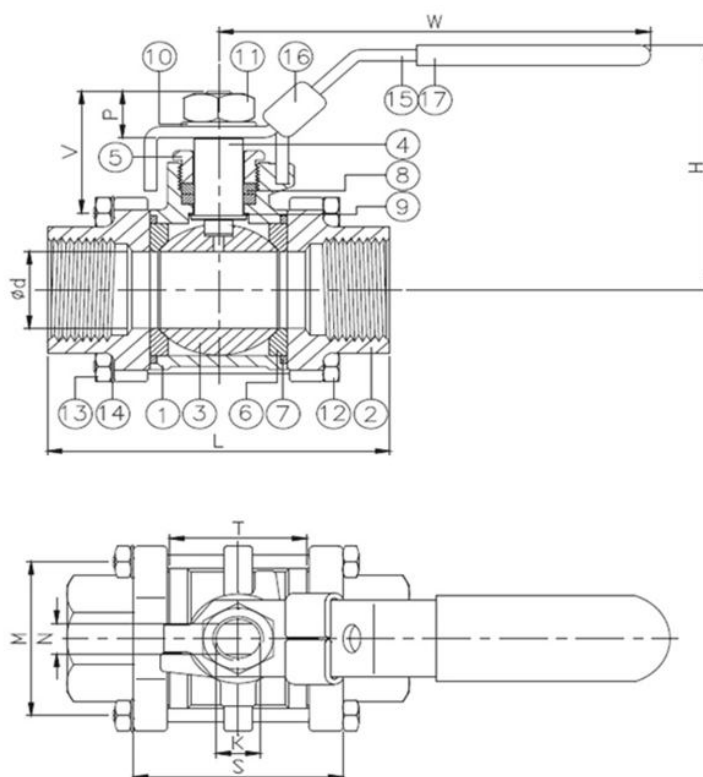
Key Features:

- Full port.
- Working Pressure: 1000 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Blow-out proof stem.
- Anti-static device.
- Locking device.
- Thread type: ASME B1.20.1 (NPT).



Size (NPS)	Part Number	Dimensions										
		d	L	H	W	S	T	M	N	V	P	K
1/2"	BV3T-050	0.590	2.600	2.240	4.020	1.500	0.940	1.310	0.200	1.190	0.410	5/16"UNC
3/4"	BV3T-075	0.790	3.290	2.600	4.740	1.690	1.100	1.480	0.260	1.440	0.530	3/8"UNC
1 "	BV3T-100	0.980	3.740	2.990	6.240	2.130	1.380	1.670	0.310	1.600	0.610	7/16"UNC
1-1/4"	BV3T-125	1.260	4.380	3.190	6.240	2.560	1.770	2.000	0.310	1.650	0.610	7/16"UNC
1-1/2"	BV3T-150	1.500	5.110	3.860	7.400	2.950	2.170	2.340	0.350	1.910	0.690	1/2"UNC
2 "	BV3T-200	1.970	5.940	4.170	7.400	3.460	2.600	2.890	0.350	1.940	0.690	1/2"UNC
2-1/2"	BV3T-250	2.560	7.240	5.430	9.650	4.490	3.390	3.800	0.470	2.840	1.300	3/4"UNC
3 "	BV3T-300	3.150	8.230	6.060	9.650	5.200	3.940	3.190	0.470	2.580	1.300	3/4"UNC
4 "	BV3T-400	3.940	9.230	7.010	12.600	6.220	4.920	4.020	0.630	3.080	1.540	1"UNC

Component	Description	Material
1	Body	T316 Stainless Steel
2	Cap	T316 Stainless Steel
3	Ball	T316 Stainless Steel
4	Stem	T316 Stainless Steel
5	Gland Nut	T304 Stainless Steel
6	Seat	PTFE/RTFE
7	Seal	PTFE
8	Packing	PTFE
9	Thrust Washer	PTFE
10	Spring Washer	T304 Stainless Steel
11	Stem Nut	T304 Stainless Steel
12	Bolt	T304 Stainless Steel
13	Bolt Nut	T304 Stainless Steel
14	Spring Washer	T304 Stainless Steel
15	Handle	T304 Stainless Steel
16	Locking Device	T304 Stainless Steel
17	Handle Sleeve	PVC



Ball Valves

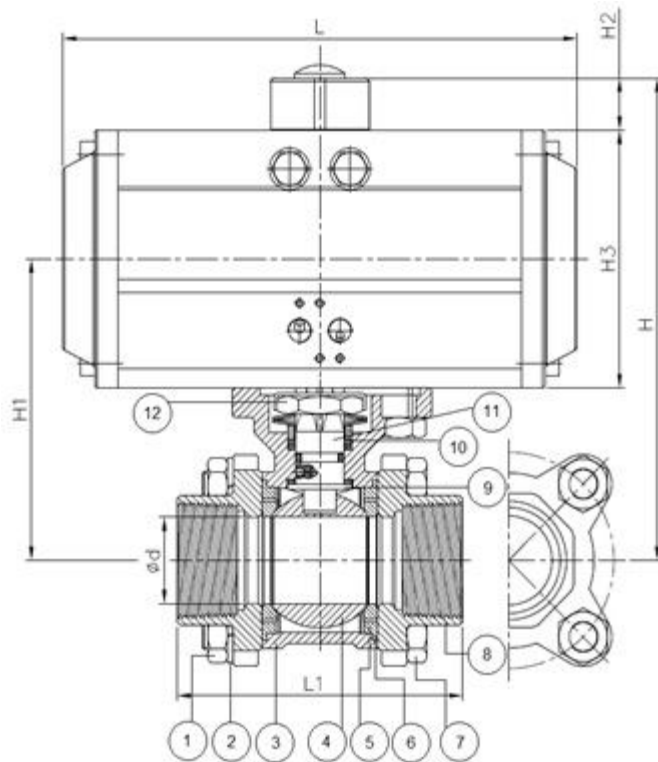
Three Piece Spring Return Pneumatic Threaded Ball Valve



Key Features:

- Full port.
- Working Pressure: 1000 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Blow-out proof stem.
- Anti-static device.
- Locking device.
- Thread type: ASME B1.20.1 (NPT).
- Actuator air supply pressure: 72.5 PSI.

Size (NPS)	Part Number	Dimensions						
		d	L	L1	H	H1	H2	H3
1/2"	BVSR-050	0.590	6.200	2.560	5.130	2.890	0.790	2.910
3/4"	BVSR-075	0.980	7.480	3.360	6.180	3.660	0.790	3.460
1 "	BVSR-100	1.260	8.090	3.980	6.860	4.100	0.790	3.940
1-1/2"	BVSR-150	1.500	8.310	4.410	7.620	4.690	0.790	4.290
2 "	BVSR-200	1.970	10.200	5.120	8.370	5.220	0.790	4.720



Component	Description	Material
1	Bolt Nut	T304 Stainless Steel
2	Spring Washer	T304 Stainless Steel
3	Body	T316 Stainless Steel
4	Ball	T316 Stainless Steel
5	Seat	PTFE/RTFE
6	Seal	PTFE
7	Bolt	T304 Stainless Steel
8	Cap	T316 Stainless Steel
9	Thrust Washer	PTFE
10	Packing	PTFE
11	Stem	T316 Stainless Steel
12	Stem Nut	T304 Stainless Steel

Three Piece Double Acting Pneumatic Threaded Ball Valve

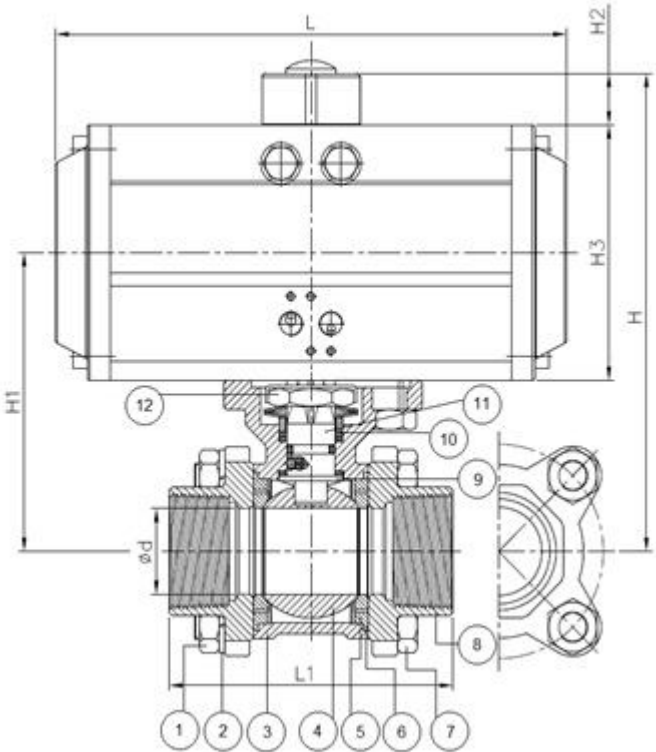
Key Features:

- Full port.
- Working Pressure: 1000 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Blow-out proof stem.
- Anti-static device.
- Locking device.
- Thread type: ASME B1.20.1 (NPT).
- Actuator air supply pressure: 72.5 PSI.



Size (NPS)	Part Number	Dimensions						
		d	L	L1	H	H1	H2	H3
1/2"	BVDA-050	0.590	4.330	2.560	3.950	2.320	0.790	1.770
3/4"	BVDA-075	0.790	6.200	2.950	5.260	3.010	0.790	2.910
1 "	BVDA-100	0.980	6.200	3.350	5.630	3.390	0.790	2.910
1-1/2"	BVDA-150	1.500	7.480	4.410	6.800	4.280	0.790	3.460
2 "	BVDA-200	1.970	8.090	5.120	7.580	4.820	0.790	3.940

Component	Description	Material
1	Bolt Nut	T304 Stainless Steel
2	Spring Washer	T304 Stainless Steel
3	Body	T316 Stainless Steel
4	Ball	T316 Stainless Steel
5	Seat	PTFE/RTFE
6	Seal	PTFE
7	Bolt	T304 Stainless Steel
8	Cap	T316 Stainless Steel
9	Thrust Washer	PTFE
10	Packing	PTFE
11	Stem	T316 Stainless Steel
12	Stem Nut	T304 Stainless Steel



Ball Valves

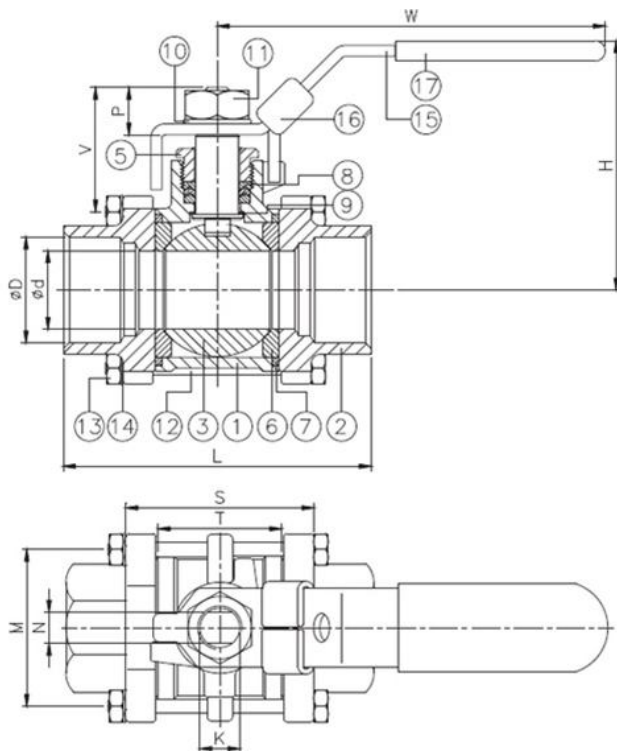
Three Piece Socket Weld Ball Valve



Key Features:

- Full port.
- Working Pressure: 1000 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Blow-out proof stem.
- Anti-static device.
- Locking device.
- Socket weld ends conform to ANSI B16.11.

Size (NPS)	Part Number	Dimensions											
		d	D	L	H	W	S	T	M	N	V	P	K
1/2"	BV3S-050	0.590	0.870	2.600	2.240	4.020	1.500	0.940	1.310	0.200	1.190	0.410	5/16"UNC
3/4"	BV3S-075	0.790	1.090	3.290	2.600	4.740	1.690	1.100	1.480	0.260	1.440	0.530	3/8"UNC
1 "	BV3S-100	0.980	1.360	3.740	2.990	6.240	2.130	1.380	1.670	0.310	1.600	0.610	7/16"UNC
1-1/4"	BV3S-125	1.260	1.690	4.380	3.190	6.240	2.560	1.770	2.000	0.310	1.650	0.610	7/16"UNC
1-1/2"	BV3S-150	1.500	1.950	5.120	3.860	7.400	2.950	2.170	2.340	0.350	1.910	0.690	1/2"UNC
2 "	BV3S-200	1.970	2.420	5.940	4.170	7.400	3.460	2.600	2.890	0.350	1.940	0.690	1/2"UNC
2-1/2"	BV3S-250	2.560	2.910	7.200	5.430	9.650	4.490	3.390	3.790	0.470	2.840	1.300	3/4"UNC
3 "	BV3S-300	3.150	3.540	8.280	6.060	9.650	5.200	3.940	3.190	0.470	2.580	1.300	3/4"UNC
4 "	BV3S-400	3.940	4.550	9.230	7.010	12.600	6.220	4.920	4.020	0.630	3.080	1.540	1"UNC



Component	Description	Material
1	Body	T316 Stainless Steel
2	Cap	T316 Stainless Steel
3	Ball	T316 Stainless Steel
4	Stem	T316 Stainless Steel
5	Gland Nut	T304 Stainless Steel
6	Seat	PTFE/RTFE/CTFE
7	Seal	PTFE
8	Packing	PTFE
9	Thrust Washer	PTFE
10	Spring Washer	T304 Stainless Steel
11	Stem Nut	T304 Stainless Steel
12	Bolt	T304 Stainless Steel
13	Bolt Nut	T304 Stainless Steel
14	Spring Washer	T304 Stainless Steel
15	Handle	T304 Stainless Steel
16	Locking Device	T304 Stainless Steel
17	Handle Sleeve	PVC

Two Piece Flanged Ball Valve

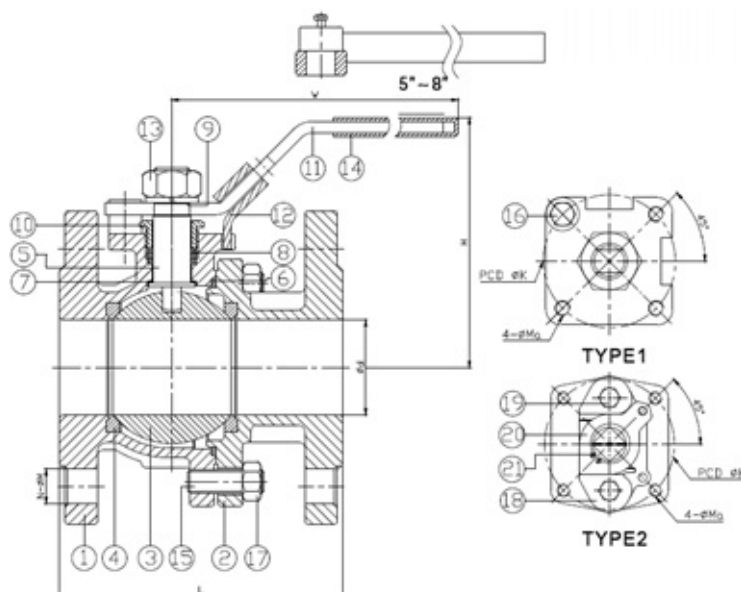
Key Features:

- Full port.
- Working Pressure: 232 PSI
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Blow-out proof stem.
- Anti-static device.
- Locking device.
- ISO 5211 mounting pad.
- Flange dimension: ASME/ANSI Class 150#.
- Face to face: ANSI B16.10.



Size (NPS)	Part Number	Dimensions						ISO-5211	Torque (in/lbs)	
		d	L	H	K	M _a	W		Breakaway	Action
1 "	BV2F-100	0.980	4.920	3.540	1.650	M5	7.090	F05	159	115
1-1/2"	BV2F-150	1.570	5.510	4.880	2.760	M8	9.610	F07	221	159
2 "	BV2F-200	1.970	5.910	5.200	2.760	M8	9.610	F07	266	177
2-1/2"	BV2F-250	2.560	6.690	6.690	2.760	M8	11.220	F10	310	221
3 "	BV2F-300	3.150	7.090	7.090	4.020	M10	11.220	F10	531	354
4 "	BV2F-400	3.860	7.480	7.640	4.020	M10	11.220	F10	620	443
6 "	BV2F-600	5.910	13.780	10.830	4.920	M12	29.530	F12	1,416	974

Component	Description	Material
1	Body	T316 Stainless Steel
2	Cap	T316 Stainless Steel
3	Ball	T316 Stainless Steel
4	Seat	PTFE
5	Stem	T316 Stainless Steel
6	Seal	PTFE
7	Thrust Washer	PTFE
8	Packing	PTFE
9	Stem Packing	PTFE
10	Gland Nut	T304 Stainless Steel
11	Handle	T304 Stainless Steel
12	Locking Device	T304 Stainless Steel
13	Stem Nut	T304 Stainless Steel
14	Handle Sleeve	PVC
15	Bolt	T304 Stainless Steel
16	Stop Pin	T304 Stainless Steel
17	Nut	T304 Stainless Steel
18	Gland	T304 Stainless Steel
19	Gland Bolt	T304 Stainless Steel
20	Stopper	T304 Stainless Steel
21	Snap Ring	T304 Stainless Steel



Check Valves

Threaded Check Valve

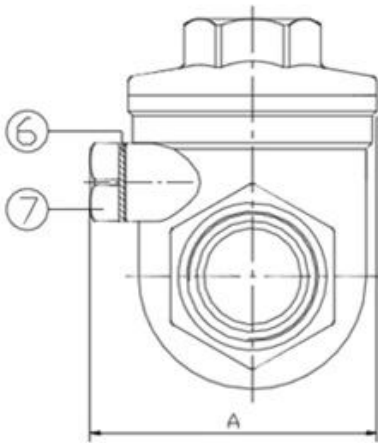
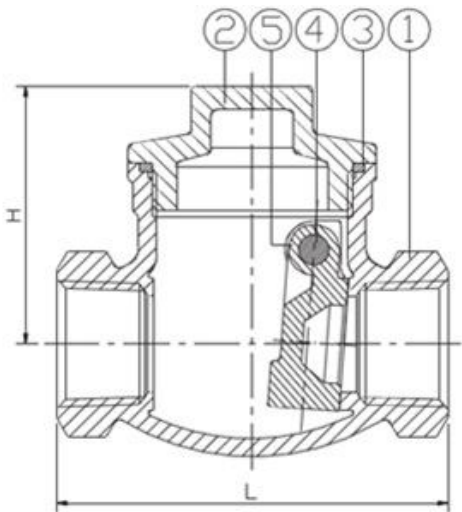


Key Features:

- Working Pressure: 200 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Thread type: ASME B1.20.1 (NPT).

Size (NPS)	Part Number	Dimensions		
		L	H	A
1/2"	CVT-050	2.560	1.730	1.830
3/4"	CVT-075	3.150	2.050	2.050
1 "	CVT-100	3.500	2.440	2.200
1-1/4"	CVT-125	4.130	2.640	2.560
1-1/2"	CVT-150	4.720	3.110	2.950
2 "	CVT-200	5.470	3.150	3.310
2-1/2"	CVT-250	7.130	3.780	4.250
3 "	CVT-300	7.870	4.090	5.390

Component	Description	Material
1	Body	T316 Stainless Steel
2	Cap	T316 Stainless Steel
3	Seal	PTFE
4	Plug	T316 Stainless Steel
5	Disc	T316 Stainless Steel
6	Gasket	PTFE
7	Bolt	T304 Stainless Steel



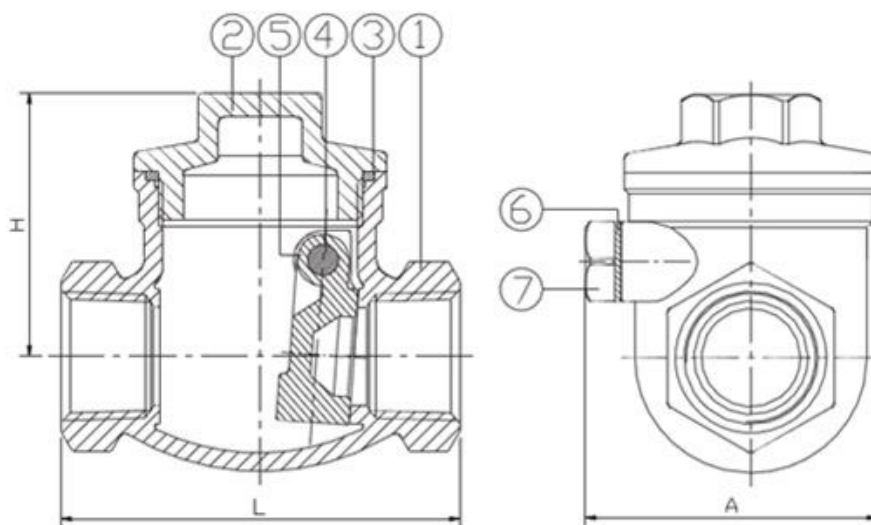
Key Features:

- Working Pressure: 200 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.



Size (NPS)	Part Number	Dimensions		
		L	H	A
3/4"	CVS-075	3.150	2.050	2.050
1 "	CVS-100	3.500	2.440	2.200
1-1/2"	CVS-150	4.720	3.110	2.950
2 "	CVS-200	5.470	3.150	3.310

Component	Description	Material
1	Body	T316 Stainless Steel
2	Cap	T316 Stainless Steel
3	Seal	PTFE
4	Plug	T316 Stainless Steel
5	Disc	T316 Stainless Steel
6	Gasket	PTFE
7	Bolt	T304 Stainless Steel



Check Valves

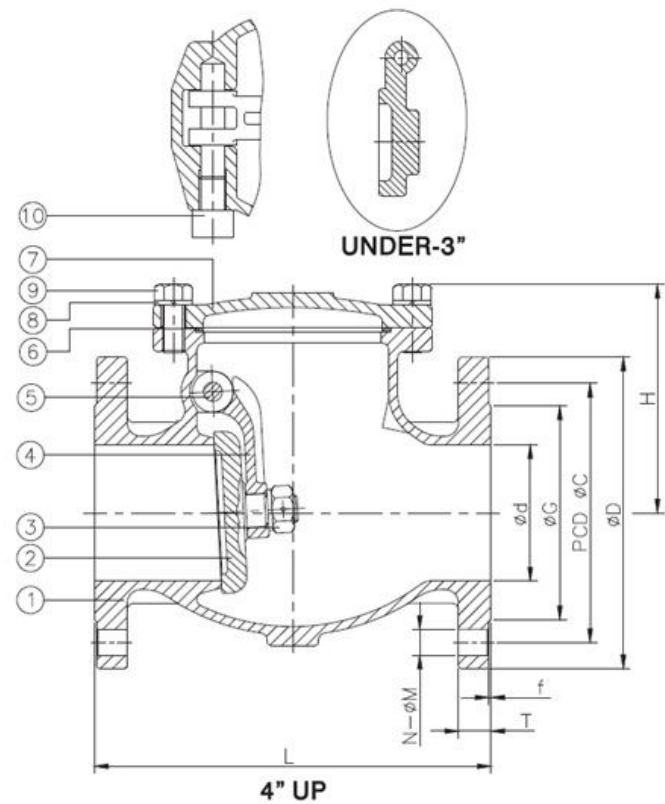
Flanged Check Valve



Key Features:

- Working Pressure: 232 PSI.
- Flange dimension: ASME/ANSI Class 150#.
- Working Temp.: -4°F to 392°F.
- Investment casting.

Size (NPS)	Part Number	Dimensions									
		d	L	H	D	C	G	T	f	M	N
1-1/2"	CVF-150	1.570	6.500	2.950	5.000	3.880	2.870	0.560	0.060	0.630	4.000
2 "	CVF-200	1.970	7.990	3.820	5.980	4.740	3.620	0.630	0.060	0.750	4.000
3 "	CVF-300	3.150	9.490	4.720	7.480	6.000	5.000	0.750	0.060	0.750	4.000
4 "	CVF-400	3.940	11.500	6.380	9.020	7.500	6.180	0.940	0.060	0.750	8.000
6 "	CVF-600	5.910	14.020	7.990	10.980	9.510	8.500	1.000	0.060	0.870	8.000



Component	Description	Material
1	Body	T316 Stainless Steel
2	Disc	T316 Stainless Steel
3	Nut	T304 Stainless Steel
4	Hinge	T316 Stainless Steel
5	Hinge Pin	T316 Stainless Steel
6	Gasket	PTFE
7	Bonnet	T316 Stainless Steel
8	Spring Washer	T304 Stainless Steel
9	Bonnet Bolt	T304 Stainless Steel
10	Bolt	T304 Stainless Steel

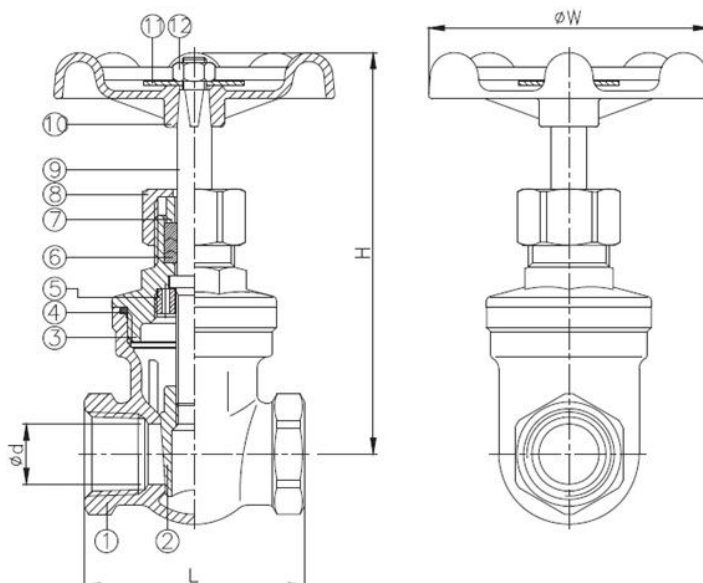
Key Features:

- Working Pressure: 200 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Non-rising stem.
- Thread type: ASME B1.20.1 (NPT).

Size (NPS)	Part Number	Dimensions			
		d	L	H	W
1/2"	GTV-050	0.590	2.170	3.980	2.760
3/4"	GTV-075	0.790	2.360	4.000	2.760
1 "	GTV-100	0.980	2.560	4.650	3.150
1-1/4"	GTV-125	1.260	2.950	5.200	3.150
1-1/2"	GTV-150	1.500	3.350	5.870	3.540
2 "	GTV-200	1.970	3.740	6.890	3.940
2-1/2"	GTV-250	2.560	4.570	8.390	3.940
3 "	GTV-300	3.150	5.120	9.490	5.510



Component	Description	Material
1	Body	T316 Stainless Steel
2	Bonnet	T316 Stainless Steel
3	Disc	T316 Stainless Steel
4	Seal	PTFE
5	Washer	T304 Stainless Steel
6	Packing	PTFE
7	Gland Ring	T304 Stainless Steel
8	Cap Nut	T316 Stainless Steel
9	Stem	T316 Stainless Steel
10	Handle	Aluminum
11	Nameplate	Aluminum
12	Stem Nut	T304 Stainless Steel



Gate Valves

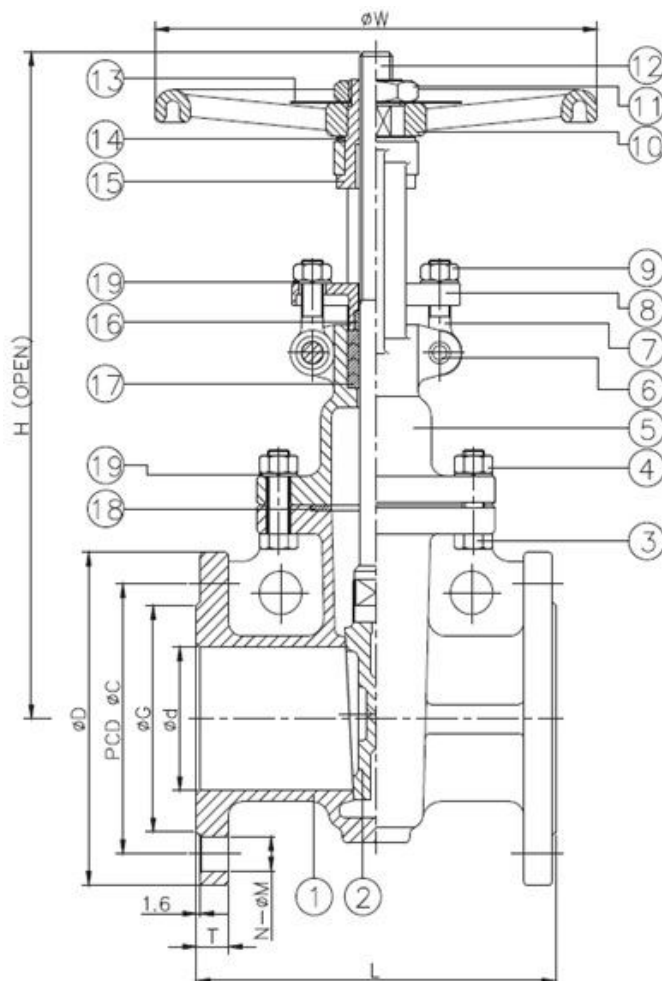
Flanged Gate Valve



Key Features:

- Working Pressure: 232 PSI.
- Flange dimension: ASME/ANSI Class 150#.
- Working Temp.: -4°F to 392°F.
- Investment casting.

Size (NPS)	Part Number	Dimensions									
		d	L	H	W	D	C	G	T	N	M
2 "	GTVF-200	1.970	7.010	13.190	7.870	5.980	4.740	3.620	0.630	4.000	0.750
2-1/2"	GTVF-250	2.560	7.480	15.470	7.870	7.010	5.490	4.130	0.690	4.000	0.750
3 "	GTVF-300	3.150	7.990	18.390	9.840	7.480	6.000	5.000	0.750	4.000	0.750
4 "	GTVF-400	3.940	9.020	21.610	9.840	9.020	7.500	6.180	0.940	8.000	0.750
6 "	GTVF-600	5.910	10.510	29.250	11.810	10.980	9.510	8.500	1.000	8.000	0.870
8 "	GTVF-800	7.870	11.500	35.830	13.780	13.500	11.750	10.630	1.130	8.000	0.870



Component	Description	Material
1	Body	T316 Stainless Steel
2	Disc	T316 Stainless Steel
3	Bonnet Bolt	T304 Stainless Steel
4	Bonnet Nut	T304 Stainless Steel
5	Bonnet	T316 Stainless Steel
6	Hinge Pin	T304 Stainless Steel
7	Eye Bolt	T304 Stainless Steel
8	Gland	T316 Stainless Steel
9	Nut	T304 Stainless Steel
10	Hand Wheel	FCD
11	Nut	Bronze
12	Stem	T316 Stainless Steel
13	Name Plate	T304 Stainless Steel
14	Spring	Bronze
15	Yoke Sleeve	Bronze
16	Gland Packing	PTFE
17	Packing	PTFE
18	Gasket	PTFE (304 + Graphite*)
19	Spring Washer	T304 Stainless Steel

*Standard on valves 5" and larger.

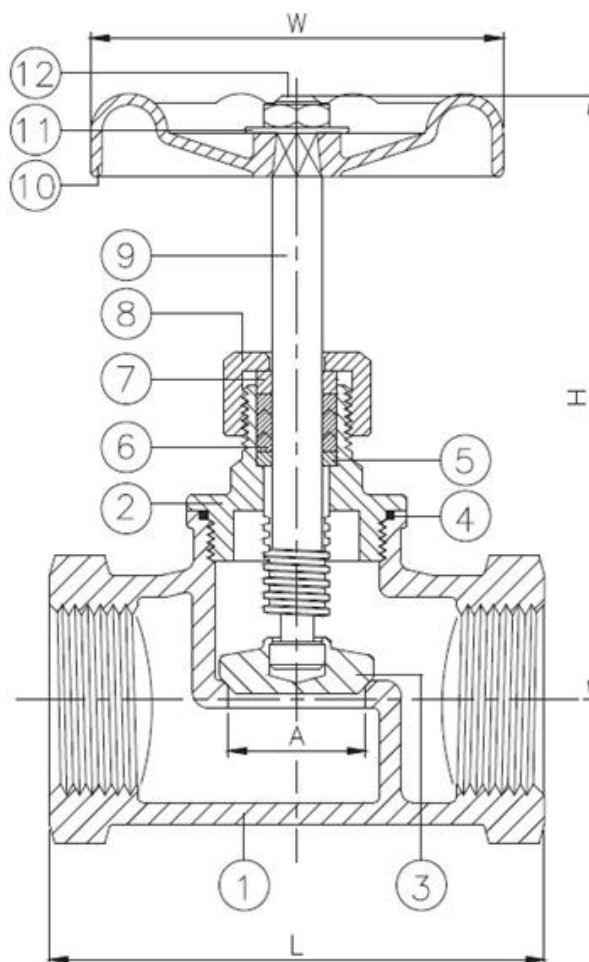
Key Features:

- Working Pressure: 200 PSI WOG.
- Working Temp.: -4°F to 392°F.
- Investment casting.
- Thread type: ASME B1.20.1 (NPT).

Size (NPS)	Part Number	Dimensions			
		L	H	W	A
3/4"	GLV-075	2.600	4.570	3.150	0.690
1 "	GLV-100	2.990	5.090	3.150	0.890
1-1/4"	GLV-125	3.390	6.040	3.540	1.160



Component	Description	Material
1	Body	T316 Stainless Steel
2	Bonnet	T316 Stainless Steel
3	Disc	T316 Stainless Steel
4	Seal	PTFE
5	Washer	T304 Stainless Steel
6	Packing	PTFE
7	Gland Ring	T304 Stainless Steel
8	Cap Nut	T316 Stainless Steel
9	Stem	T316 Stainless Steel
10	Handle	Aluminum
11	Nameplate	Aluminum
12	Stem Nut	T304 Stainless Steel



Butt Weld Fittings Cross Reference Chart

Part Description	Sanitube™	Bradford	Alfa Laval	SPX	VNE	Top Line	Andron
Elbow 90° Wld. w/ Tangent	L2S	B2S	L2S	2CW	EG2S	L2S	A2S
Elbow 90° Wld. NO Tangent	2WC	B2WCL	2WCL	2WCL	--	2WCL	A2SX
Elbow 90° Wld. x Clamp	L2CM	B2CM	L2CM	2CKW	EGC2	L2CM	AC2C31
Elbow 90° Wld. x BS Thrd.	L2C	B2C	L2C	2TW	EG2T	L2C	A2C
Elbow 90° Wld. x BS Male	L2F	B2F	L2F	L2F	EG2F	L2F	A2F
Elbow 45° Wld. w/ Tangent	L2KS	B2KS	L2KS	2KW	EG2KS	L2KS	A2KS
Elbow 45° Wld. NO Tangent	2WK	B2WK	2WK	B2WK	EG2WK	2WK	A2KSX
Elbow 45° Wld. x Clamp	L2KM	B2KM	L2KM	2KKW	EG2KC	L2KM	AC2KC
Elbow 45° Wld. x BS Thrd.	L2K	B2K	L2K	2KT	E2K	L2K	A2K
Elbow 45° Wld. x BS Male	L2P	B2KP	L2P	2KP	E2P	L2P	A2P
U-Bend 180° Wld.	2WU	B2WUL	L2WU	2WU	E2WU	L2WU	A2WU
Tee Wld. (LONG)	7WL	B7WWM	L7W	7W	E7W	L7W	A7W
Tee Wld. (SHORT)	7WS	B7WWW	L7WWW	7WWW	E7WWW	L7WWW	
Tee Wld. x Clamp Br.	7WWM	B7WWM	L7WWM	7WWK	E7WWM	L7WWM	A7WWM
Tee Wld. x BS Thrd. Br.	7WWT	B7WWT	L7WWT	7WWT	E7WWT	L7WWT	--
Tee Wld. x Wld. Br. x Clamp	7WMW	B7WMW	L7WMW	7WKW	E7WMW	L7WMW	A7WMW
Tee Wld. x Wld. Br. x BS Thrd.	7WTW	B7WTW	L7WTW	7WTW	E7WTW	L7WTW	--
Tee Wld. x Clamp Br. x Clamp	7WMM	B7WMM	L7WMM	7WKK	E7WMM	L7WMM	A7WMM
Tee Wld. x BS Thrd. x BS Thrd.	7WTT	B7WTT	L7WTT	7WTT	E7WTT	L7WTT	--
Tee Clamp x Wld. Br.	7MMW	B7CCW	L7MMW	7KKW	E7MMW	L7MMW	A7MMW
Tee BS Thrd. x Wld. Br.	7TTW	B7TTW	L7TTW	7TTW	E7TTW	L7TTW	--
Tee Reducing Wld.	7WRT	B7RWWW	L7RWWW	7WR	E7RWWW	L7RWWW	A7WR
Cross Wld.	9WWWW	B9WWWW	L9WWWW	9W	E9WWWW	L9WWWW	A9W
Conc. Wld.	31W	B31W	L31	31W	E31W	L31	A31W
Ecc. Wld.	32W	B32W	L32	32W	E32W	L32	A32W
Lateral Y Wld.	28WA	B28WA	L28WA	28WA	E28WA	L28WA	A28WA
True Y Wld.	28W	B28WB	L28WB	28WB	E28WB	L28WB	A28B

Clamp Fittings Cross Reference Chart

Part Description	Sanitube™	Bradford	Alfa Laval	SPX	VNE	Top Line	Andron
Elbow 90° Clamp	2CMP	B2CMP	2CMP	2CMP	EG2C	2CMP	AC2SX
Elbow 90° Reducing Clamp	2CMP-31MP	B3114MP	2CMP-31MP	2CMP-31MP	EG2C-31	2CMP-31MP	AC2C31
Elbow 90° Clamp x Male BS Nut	2FMP-14	B2FMP-14	2FMP-14	2FMP-14	EG2FPR	2FMP-14	AC214F
U-Bend 180° Clamp	2WUMP	B2WUMP	--	--	EG2WU	2WUMP	AC2U
Elbow 90° Clamp x BS Thrd.	2FMP-15	B2FMP-15	2FMP-15	2FMP-15	EG2FTR	2FMP-15	AC215F
Elbow 45° Clamp	2KMP	B2KMP	2KMP	2KMP	EG2K	2KMP	AC2KSX
Tee Clamp	7MP	B7MP	7MP	7MP	EG7	7MP	AC7
Tee Reducing Clamp	7RMP	B7RMP	7RMP	7RMP	EG7R	7RMP	AC7R
Cross Clamp	9MP	B9MP	9MP	9MP	EG9	9MP	AC9
Clamp Sanitary Hvy. Duty	13MHHM	13MHHM	13MHHM	13MHHM	13MHHM	13MHHM	AC13HH
Clamp Sanitary High Pressure	13MHP	13MHP	13MHP	13MHP	13MHP	13MHP	AC13HP
Adptr. Clamp x Tygon Hose	14MPHT	14MPHT	14MPHT	14MPHT	EG14HT	14MPHT	AC14AHT
Ferrule Clamp Tank Wld.	14MPW	14MPW	14MPW	14MPW	EG14W	14MPW	AC14H
Ferrule Clamp Tank Wld. Light	14WLMP	14WLMP	14WLMP	14WLMP	EG14WL	14WLMP	AC14WL
Ferrule Clamp Long	14AM7	14AM7	L14AM7	L14AM7	EG14AM7	L14AM7	AC14A
Ferrule Clamp Short	14WMP	14WMP	14WMPS	14WMP	EG2CS	14WMP	AC14X
Ferrule Clamp Recessless	14RMP	14RMP	14RMP	14RMP	EG14R	14RMP	AC14R
Adptr. Clamp x Hose Barb	14MPHR	14MPHR	14MPHR	14MPHR	EG14RT	14MPHR	AC14AHR
Cap Clamp	16AMP	GC16A	16AMP	16AMP	EG16A	16AMP	AC16
Adptr. Clamp x Male BS Nut	17MP-14	17MP-14	17MP-14	17MP-14	EG17PR	17MP-14	AC1714
Adptr. Clamp x Thrd. BS	17MP-15	17MP-15	17MP-15	17MP-15	EG17TR	17MP-15	AC1715
Adptr. Clamp X Male NPT	21MP	21MP	21MP	21MP	EG21	21MP	AC21
Adptr. Clamp X Fml. NPT	22MP	22MP	22MP	22MP	EG22	22MP	AC22
Clamp x Clamp Conc.	3114MP	B3114MP	31-14MP	31-14MP	EG31CC	31-14MP	AC31
Clamp x Clamp Ecc.	3214MP	B3214MP	32-14MP	32-14MP	EG32CC	32-14MP	AC32
Cap Thermometer x Clamp	23BMP	B23BMP	23BMP	23BMP	EG23B	23BMP	AC23
Lateral Y Clamp	28AMP	B28AMP	28AMP	28AMP	EG28A	28AMP	AC28WA
True Y Clamp	28BMP	B28BMP	28BMP	28BMP	EG28B	28BMP	AC28B

Bevel Seat Fittings Cross Reference Chart

Part Description	Sanitube™	Bradford	Alfa Laval	SPX	VNE	Top Line	Andron
Elbow 90° BS Thrd.	2C	B2C	2C	2C	E2C	2C	2C
Elbow 90° Male BS Nut	2E	B2E	2E	2E	E2E	2E	2E
Elbow 90° BS Thrd. x Male Nut	2F	B2F	2F	2F	E2F	2F	2F
Elbow 45° BS Thrd.	2K	B2K	2K	2K	E2K	2K	2K
Elbow 45° BS Thrd. x Male Nut	2P	B2P	2P	2P	E2P	2P	2P
Tee BS Thrd.	7	7	7	7	E7	7	7
Tee BS Thrd. x Male BS Nut Br.	7A	7A	7A	7A	E7A	7A	7A
Tee BS Thrd. x Male BS Nut Run	7B	7B	7B	7B	E7B	7B	7B
Cross BS Thrd.	9	9	9	9	E9	9	9
BS Nut	13H	13H	13H	13H	13H	13H	13H
Ferrule Recessed Male BS	14	14	14	14	14	14	14
Ferrule Wld. Male BS	14A	14A	L14A7	14A	E14A	L14A7	14A
Adptr. Male BS x Hose Barb	14AHR	14AHR	14AHR	14AHR	14AHR	14AHR	14AHR
Adptr. Male BS x Tygon Hose	14AHT	14AHT	14AHT	14AHT	14AHT	14AHT	14AHT
Ferrule Recessless Male BS	14R	14R	14R	14R	14R	14R	14R
Ferrule Male BS Tank Wld. Hvy.	14W	14W	14W	14W	14W	14W	14W
Adptr. Male BS Nut x Fml. NPT	14-22	14-22	14-22	14-22	14-18	14-22	14-18
Ferrule Male BS Tank Wld. Long	14WL	14WL	14WL	14WL	14WL	14WL	14WL
Adptr. Male BS Nut x Male NPT	14-19	21F	14-19	21F	14-19	14-19	14-19
Ferrule Male BS Short	14PRF	14PRF	14PRF	14RW	14PRF	14PRF	14WF
Ferrule Recessed BS Thrd.	15	15	15	15	15	15	15
Ferrule Short Wld. BS Thrd.	15TRF	15TRF	15TRF	15RW	15TR	15TRF	15WF
Ferrule Wld. BS Thrd.	15A	15A	L15A7	15A	EG15A7	L15A7	15A
Adptr. BS Thrd. x Hose Barb	15AHR	15AHR	15AHR	15AHR	15AHR	15AHR	15AHR
Adptr. BS Thrd. x Tygon Hose	15AHT	15AHT	15AHT	15AHT	15AHT	15AHT	15AHT
Ferrule Recessless BS Thrd.	15R	15R	15R	15R	15R	15R	15R
Ferrule BS Thrd. Tank Wld. Hvy.	15W	15W	15W	15W	15W	15W	15W
Ferrule BS Thrd. Tank Wld. Long	15WL	15WL	15WL	15WL	15WL	15WL	15WL
Cap Male BS	16A	16A	16A	16A	16A	16A	16A
Adptr. BS Thrd. x Male NPT	21	21	21	21	21	21	21
Cap Thermometer x Male BS	23B	23B	23B	23B	23B	23B	23B
Adptr. BS Thrd. x Fml. NPT	22	22	22	22	22	22	22

Bevel Seat Fittings Cross Reference Chart (Cont.)

Part Description	Sanitube™	Bradford	Alfa Laval	SPX	VNE	Top Line	Andron
Conc. BS Thrd.	31TT	31TT	31TT	31TT	31TT	31TT	31TT
Conc. Male BS Nut x BS Thrd.	31TP	31TP	31TP	31TP	31TP	31TP	31TP
Conc. Male BS Nut	31-14F	31-14F	31-14F	31-14F	31-14F	31-14F	31-14F
Conc. Male BS x BS Thrd.	31-15F	31-15F	31-15F	31-15F	31-15F	31-15F	31-15F
Ecc. Male BS Nut	32-14F	32-14F	32-14F	32-14F	32-14F	32-14F	32-14F
Ecc. BS Thrd.	32-15F	32-15F	32-15F	32-15F	32-15F	32-15F	32-15F

I-Line Fittings Cross Reference Chart

Part Description	Sanitube™	Bradford	Alfa Laval	SPX	VNE	Top Line	Andron
Elbow 90° I-Line Male x Fml.	2CI	B2CI	--	2CI	E2CI	2CI	--
Elbow 90° I-Line Fml. x Male	2FI	B2FI	--	2FI	E2FI	2FI	--
Elbow 90° I-Line Male x Male	2EI	B2EI	--	2EI	E2EI	2EI	--
Elbow 45° I-Line Fml. x Fml.	2KI	B2KI	--	2KI	E2KI	2KI	--
Elbow 45° I-Line Fml. x Male	2PI	B2PI	--	2PI	E2PI	2PI	--
Tee I-Line Fml.	7I	B7I	--	7I	E7I	7I	--
Tee I-Line Fml. x Male Br.	7AI	B7AI	--	7AI	E7AI	7AI	--
Tee I-Line Male x Fml. Br.	7EI	B7EI	--	7EI	E7EI	7EI	--
Tee I-Line Fml. x Male Run	7BI	B7BI	--	7BI	E7BI	7BI	--
Cross I-Line Fml.	9I	B9I	--	9I	E9I	9I	--
Clamp I-Line Hvy. Duty	13IS	13ILH	--	13IS	E13IS	13IS	AY13IS
Clamp I-Line Bolted	13IU	13ILB	--	13IU	E13IU	13IU	--
Ferrule I-Line Male Wld. Short	14WI	14WI	--	14WI	E14WI	14WI	AY14WI
Ferrule I-Line Fml. Wld. Short	15WI	15WI	--	15WI	E15WI	15WI	AY15WI
Ferrule I-Line Male Wld. Long	14WLI	14WLI	--	14WLI	E14WLI	14WLI	AY14WLI
Ferrule I-Line Fml. Wld. Long	15WLI	15WLI	--	15WLI	E15WLI	15WLI	AY15WLI
Adptr. I-Line Male x Hose Barb	14HRI	14HRI	--	14HRI	E14HRI	14HRI	AY14AHR
Adptr. I-Line Male x Tygon Hose	14HTI	14HTI	--	14HTI	E14HTI	14HTI	AY14AHT
Adptr. I-Line Fml. x Hose Barb	15HRI	15HRI	--	15HRI	E15HRI	15HRI	AY15AHR
Adptr. I-Line Fml. x Tygon Hose	15HTI	15HTI	--	15HTI	E15HTI	15HTI	AY15AHT
Adptr. I-Line Male x Fml.	17-14I-15I	17-14I-15I	--	17-14I-15I	E17-14-15I	17-14I-15I	--
Adptr. I-Line Male x Male	17-15I-15I	17-15I-15I	--	17-15I-15I	E17-15-15I	17-15I-15I	--
Adptr. I-Line Fml. x Fml.	17-14I-14I	17-14I-14I	--	17-14I-14I	E17-14I-14I	17-14I-14I	--
Adptr. I-Line Fml. x Male BS Nut	17-14I-14	17-14I-14	--	17-14I-14	E17-14I-14I	17-14I-14	--
Adptr. I-Line Fml. x Clamp	17-14I-14MP	17-14I-14MP	--	17-14I-14MP	E17-14I-14MP	17-14I-14MP	--
Adptr. I-Line Fml. x BS Thrd.	17-14I-15	17-14I-15	--	17-14I-15	E17-14I-15	17-14I-15	--
Adptr. I-Line Male x Male BS Nut	17-15I-14	17-15I-14	--	17-15I-14	E17-15I-14	17-15I-14	--
Adptr. I-Line Male x BS Thrd.	17-15I-15I	17-15I-15I	--	17-15I-15I	E17-15I-15	17-15I-15I	--
Adptr. I-Line Male x Clamp	17-15I-14MP	17-15I-14MP	--	17-15I-14MP	E17-15I-14MP	17-15I-14MP	--
Adptr. I-Line Male x Male NPT	21FI-14I	21FI-14I	--	21FI-14I	E21I-14I	21FI-14I	--
Adptr. I-Line Male x Fml. NPT	21F1-15I	21F1-15I	--	21F1-15I	E21I-15I	21F1-15I	--
Adptr. I-Line Fml. x Male NPT	22FI-14I	22FI-14I	--	22FI-14I	E22I-14I	22FI-14I	--

I-Line Fittings Cross Reference Chart (Cont.)

Part Description	Sanitube™	Bradford	Alfa Laval	SPX	VNE	Top Line	Andron
Adptr. I-Line Fml. x Fml. NPT	22FI-15I	22FI-15I	--	22FI-15I	E22I-15I	22FI-15I	--
Cap I-Line Male	16AI-14I	16AI-14I	--	16AI-14I	E16AI-14I	16AI-14I	AY16AI-14
Cap I-Line Fml.	16AI-15I	16AI-15I	--	16AI-15I	E16AI-15I	16AI-15I	AY16AI-15
Conc. I-Line Male	31I-14FI	31I-14FI	--	31I-14FI	E31I-14I	31I-14FI	--
Conc. I-Line Fml.	31I-15FI	31I-15FI	--	31I-15FI	E31I-15I	31I-15FI	--
Conc. I-Line Male (Lrg.) x Fml.	31I-15I-14I	31I-15I-14I	--	--	E31I-15I-14I	--	--
Conc. I-Line Male (Sml.) x Fml.	31I-14I-15I	31I-14I-15I	--	--	E31I-14I-15I	--	--
Ecc. I-Line Male	32I-14FI	32I-14FI	--	32I-14FI	E32I-14I	32I-14FI	--
Ecc. I-Line Fml.	32I-15FI	32I-15FI	--	32I-15FI	E32I-145I	32I-15FI	--

Compound Selection Guide

The information contained in these tables was derived from several sources and is to be used as a general guide only. Compounds suitable for any specific application rests solely by the end user. Sanitube assumes no responsibility. All effect ratings assume static conditions at ambient temperatures.

Guide:

A = Satisfactory

B = Fair

C = Severe Effect (except for some static applications)

D = Unsatisfactory

E = Insufficient Information

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Acetaldehyde	D	A	D	A	B
Acetamide	A	A	B	A	B
Acetic Acid, 30%	B	A	B	A	A
Acetone	D	A	D	A	C
Acetophenone	D	A	D	A	D
Acetyl Chloride	D	D	A	A	C
Acetylene	A	A	A	A	B
Acrylonitrile	D	D	C	A	D
Adipic Acid	A	A	E	E	E
Ammonia Gas (cold)	A	A	D	A	A
Ammonium Chloride (aq)	A	A	A	A	E

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Ammonium Hydroxide (conc.)	D	A	B	A	A
Ammonium Nitrate (aq)	A	A	E	A	E
Ammonium Nitrite (aq)	A	A	E	E	B
Ammonium Phosphate (aq)	A	A	E	A	A
Ammonium Sulfate (aq)	A	A	D	A	E
Amyl Acetate (Banana Oil)	D	A	D	A	D
Amyl Alcohol	B	A	B	A	D
Amyl Borate	A	D	A	A	E
Arsenic Acid	A	A	A	E	A
Arsenic Trichloride (aq)	A	C	E	E	E
Barium Chloride (aq)	A	A	A	A	A

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Barium Hydroxide (aq)	A	A	A	A	A
Barium Sulfate (aq)	A	A	A	A	A
Barium Sulfide (aq)	A	A	A	A	A
Benzaldehyde	D	A	D	A	B
Benzene	D	D	A	A	D
Benzoic Acid	C	C	A	A	C
Benzoyl Chloride	D	D	A	A	E
Benzyl Alcohol	D	A	A	A	B
Benzyl Chloride	D	D	A	A	D
Boric Acid	A	A	A	A	A
Brine	A	A	A	A	A
Bromine, Anhydrous	D	D	A	E	D
Bromine Water	D	B	A	E	D
Butadiene	D	C	A	A	D
Butane	A	D	A	A	D

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Butyl Acetate	D	C	D	E	D
Butyl Acetyl Ricinoleate	C	A	A	E	E
Butyl Alcohol	A	B	A	A	B
Butyl Amine	C	B	D	E	D
Butyl Benzoate	D	B	A	E	E
Butyl Carbitol	D	A	A	A	D
Butyl Cellosolve	D	A	D	A	E
Butyl Oleate	D	B	A	E	E
Butyl Stearate	B	C	A	E	E
Butylene	B	D	A	E	D
Butyraldehyde	D	B	D	E	D
Carbolic Acid (Phenol)	D	B	A	A	D
Carbon Bisulfide	C	D	A	E	D
Carbon Dioxide	A	B	A	E	B
Carbonic Acid	B	A	A	E	A

Compound Selection Guide

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Carbon Monoxide	A	A	A	A	A
Carbon Tetrachloride	C	D	A	A	D
Castor Oil	A	B	A	A	A
Cellosoive Acetate	D	B	D	A	D
China Wood Oil (Tung Oil)	A	C	A	A	D
Chlorine (wet)	D	C	A	A	D
Chlorine Dioxide	D	C	A	A	E
Chloroacetic Acid	D	A	D	A	E
Chloroacetone	D	A	D	E	D
Chlorobenzene	D	D	A	E	D
Chlorobromomethane	D	B	A	E	D
Chloroform	D	D	A	A	D
Chlorotoluene	D	D	A	E	D
Chrome Plating Solutions	D	C	A	A	C
Chromic Acid	D	B	A	A	B

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Cod Liver Oil	A	A	A	A	B
Copper Acetate (aq)	B	A	D	E	D
Copper Chloride (aq)	A	A	A	A	A
Copper Cyanide (aq)	A	A	A	A	A
Copper Sulfate (aq)	A	A	A	A	A
Creosote (coal tar)	A	D	A	A	D
Cresylic Acid	D	D	A	E	D
Cyclohexane	A	D	A	A	D
Cyclohexanol	C	C	A	E	D
Cyclohexanone	D	B	D	E	D
Denatured Alcohol	A	A	A	A	A
Detergent Solutions	A	A	A	A	A
Diacetone Alcohol	D	A	D	A	B
Dibenzyl Ether	D	B	D	A	E
Dibenzyl Sebecate	D	B	B	E	C

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Dibromoethyl Benzene (Alkazene)	D	D	B	E	D
Dibutyl Amine	D	C	D	E	C
Dibutyl Ether	D	C	C	E	D
Dibutyl Phthalate	D	B	C	A	B
Dibutyl Sebecate	D	B	B	E	B
O-Dichlorobenzene	D	D	A	E	D
Dichloro-Isopropyl Ether	D	C	C	E	D
Diethylamine	B	B	D	A	B
Diethyl Benzene	D	D	A	E	D
Diethyl Ether	D	D	D	E	D
Diethylene Glycol	A	A	A	E	B
Diethyl Sebecate	B	B	B	E	B
Diisobutylene	B	D	A	E	D
Diisopropyl Benzene	D	D	A	E	E
Diisopropyl Ketone	D	A	D	E	D

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Diisopropylidene Acetone	D	C	D	E	D
Dimethyl Aniline (Xylidine)	C	B	D	E	D
Dimethyl Ether (Methyl Ether)	A	D	A	E	A
Dimethyl Formamide	B	B	D	E	B
Dimethyl Phthalate	D	B	B	E	E
Dinitrotoluene	D	D	D	E	D
Diocetyl Phthalate	C	B	B	E	C
Diocetyl Sebecate	D	B	B	E	C
Dioxane	D	B	D	E	D
Dioxolane	D	B	D	E	D
Dipentene	A	D	A	E	D
Diphenyl (Phenylbenzene)	D	D	A	E	D
Diphenyl Oxides	D	D	A	E	C
Dowtherm Oil	D	D	A	A	C
Ethane	A	D	A	A	D

Compound Selection Guide

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Ethanolamine	B	B	D	E	B
Ethyl Acetate	D	B	D	E	B
Ethyl Acetoacetate	D	B	D	E	B
Ethyl Acrylate	D	B	D	E	B
Ethyl Alcohol	A	A	C	A	A
Ethyl Benzene	D	D	A	A	D
Ethyl Benzoate	D	A	A	A	D
Ethyl Cellosolve	D	B	D	E	D
Ethyl Cellulose	B	B	D	A	C
Ethyl Chloride	A	C	A	A	D
Ethyl Chlorocarbonate	D	B	A	A	D
Ethyl Chloroformate	D	B	D	E	D
Ethyl Ether	C	C	D	A	D
Ethyl Penta-chlorobenzene	D	D	A	A	D
Ethylene	A	B	A	A	E

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Ethylene Chloride	D	C	B	E	D
Ethylene Diamine	A	A	D	E	A
Ethylene Dichloride	D	C	A	A	D
Ethylene Glycol	A	A	A	A	A
Fluoroboric Acid	A	A	E	E	E
Freon 11	B	D	A	A	D
Freon 12	A	B	B	A	D
Freon 22	D	A	D	A	D
Fumaric Acid	A	B	A	E	B
Gallic Acid	B	B	A	A	E
Gasoline	B	D	A	A	D
Glucose	A	A	A	A	A
Glycerin	A	A	A	A	A
Hexane	A	D	A	A	D
Hexyl Alcohol	A	C	A	A	B

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Hydrazine	B	A	D	A	C
Hydrobromic Acid	D	A	A	E	D
Hydrocyanic Acid	B	A	A	A	C
Hydrofluoric Acid (conc.) cold	D	C	A	A	D
Hydrofluosilicic Acid	B	B	A	E	D
Hydrogen Gas	A	A	A	A	C
Hydrogen Peroxide - 0.9	D	B	B	E	B
Hydrogen Sulfide (wet) cold	D	A	D	E	C
Hydroquinone	C	B	B	A	E
Iodoform	E	D	E	E	E
Isobutyl Alcohol	B	A	A	A	A
Isooctane	A	D	A	E	D
Isopropyl Acetate	D	B	D	A	D
Isopropyl Alcohol	B	A	A	A	A
Isopropyl Chloride	D	D	A	A	D

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Isopropyl Ether	B	D	D	A	D
Kerosene	A	D	A	A	D
Lacquers	D	D	D	A	D
Lactic Acid (cold)	A	A	A	A	A
Lead Acetate (aq)	B	A	D	E	D
Lead Nitrite (aq)	A	A	E	E	B
Lime Bleach	A	A	A	E	B
Linoleic Acid	B	D	B	A	B
Maleic Acid	D	B	A	A	E
Malic Acid	A	B	A	E	B
Methane	A	D	B	A	D
Methyl Acetate	D	A	D	A	D
Methyl Acrylate	D	B	D	A	D
Methylacrylic Acid	D	B	D	E	D
Methyl Alcohol	A	A	D	A	A

Compound Selection Guide

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Methyl Bromide	B	D	A	A	E
Methyl Butyl Ketone	D	A	D	A	C
Methyl Cellosolve	C	B	D	A	D
Methyl Chloride	D	C	B	A	D
Methyl Cyclopentane	D	D	B	E	D
Methylene Chloride	D	C	B	E	D
Methyl Ether	A	D	A	A	A
Methyl Ethyl Ketone	D	A	D	A	D
Methyl Isobutyl Ketone	D	B	D	A	D
Methyl Methacrylate	D	C	D	A	D
Milk	A	A	A	A	A
Mineral Oil	A	C	A	C	B
Monoethanol Amine	D	A	D	E	B
Monomethyl Ether	A	D	A	E	A
Monovinyl Acetylene	A	A	A	A	B

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Mustard Gas	E	A	E	E	A
Naphthalenic Acid	B	D	A	A	D
Natural Gas	A	D	A	A	A
Nickel Acetate (aq)	B	A	D	E	D
Nickel Chloride (aq)	A	A	A	A	A
Nickel Sulfate (aq)	A	A	A	A	A
Nitric Acid (dilute)	D	B	A	A	B
Nitrobenzene (Ligroin)	A	D	A	A	D
Nitroethane	D	B	D	A	D
Nitrogen Tetroxide	D	C	D	A	D
Octachlorotoluene	D	D	A	E	D
Octadecane	A	D	A	E	D
N-Octane	B	D	A	A	D
Octyl Alcohol	B	C	A	A	B
Oleic Acid	C	D	B	A	D

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Oxalic Acid	B	A	A	E	B
Oxonia	D	A	A	E	A
Oxygen - Cold	B	A	A	A	A
Ozone	D	A	A	E	A
Palmitic Acid	A	B	A	E	D
Perchloric Acid	D	B	A	E	D
Phenyl Ethyl Ether	D	D	D	E	D
Phosphoric Acid - 0.2	B	A	A	E	B
Phosphorus Trichloride	D	A	A	A	E
Piperidine	D	A	D	E	D
Polyvinyl Acetate Emulsion	E	A	E	E	E
Potassium Acetate (aq)	B	A	D	E	D
Potassium Chloride (aq)	A	A	A	A	A
Potassium Cyanide (aq)	A	A	A	A	A
Potassium Nitrate (aq)	A	A	A	A	A

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
i-Propyl Acetate	D	B	D	E	D
Propyl Nitrate	D	B	D	E	D
Propylene	D	D	A	A	D
Pyridine	D	B	D	E	D
Salicylic Acid	B	A	A	E	E
Silicone Oils	A	A	A	A	C
Soap Solutions	A	A	A	A	A
Sodium Acetate (aq)	B	A	D	E	D
Sodium Bicarbonate (aq)	A	A	A	A	A
Sodium Borate (aq)	A	A	A	A	A
Sodium Chloride (aq)	A	A	A	A	A
Sodium Hydroxide (aq)	B	A	B	A	B
Sodium Nitrate (aq)	B	A	E	E	D
Sodium Peroxide (aq)	B	A	A	E	D
Soybean Oil	A	C	A	A	A

Compound Selection Guide

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Steam, under 300°F	D	A	D	A	C
Stearic Acid	B	B	E	A	B
Stoddard Solvent	A	D	A	A	D
Sulfur Chloride (aq)	C	D	A	B	C
Sulfuric Acid (dilute)	C	B	A	E	D
Sulfurous Acid	B	B	A	A	D
Tannic Acid	A	A	A	A	B
Tartaric Acid	A	B	A	A	A
Tetrachloroethylene	D	D	A	A	D
Toluene	D	D	A	A	D
Triethanol Amine	B	A	D	A	E
Trioctyl Phosphate	D	A	B	E	C
Tung Oil (China Wood Oil)	A	C	A	A	D
Turpentine	A	D	A	A	D
Vegetable Oils	A	C	A	A	B

Fluid	Material				
	Buna	EPDM	Viton®	Teflon®	Silicone
Vinegar	B	A	A	A	A
Whiskey, Wines	A	A	A	A	A
White Pine Oil	B	D	A	E	D
Zinc Chloride (aq)	A	A	A	A	A

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