



FITTINGS, TUBING & VALVES

Supplying Sanitary Distributors who Service
the Beverage, Dairy, Food, Brewery, Bakery,
Cosmetic, and Nutraceutical Industries

2021 CATALOG



THE RIGHT WAY

THE FAST WAY

THE EASY WAY



www.WaylandIndustries.com

1-888-798-2653





What We Do

Wayland Industries provides the highest quality stainless steel sanitary fittings, valves, and tubing to distributors throughout North America. Our products are made from T304 and T316L stainless steel, are 3A sanitary standard, and meet the highest specifications of compliance in the industry.

Who We Are

Wayland Industries was founded by brothers, Kevin and Andy Kurstin. Distribution of industrial pipe, valves, and fittings is in their DNA. Their grandfather was one of the earliest full line manufacturers of stainless steel butt-weld fittings on the West Coast, and their father founded Smith-Cooper International, one of the nation's largest distributors of industrial PVF. With a passion for exceeding traditional industry standards, Kevin and Andy represent the fourth generation of expertise in quality stainless steel sanitary fittings, valves and tubing.

What We Believe

At Wayland, we run our business the right way and offer our customers the fast way and the easy way to buy sanitary products.

THE RIGHT WAY – Our vision is to create partnerships founded on reliability and excellence. We are committed to exceeding our customers' expectations and staying true to our word. Doing things the right way is the core of Wayland Industries.

THE FAST WAY – From inquiry to delivery, we believe our customers should experience the fast way to buy sanitary products. By providing real-time quotes backed by a fully stocked inventory, we guarantee same-day shipping on over 95% of our products.

THE EASY WAY – We recognize the evolving nature of the industry when it comes to customer experience. Our multi-platform ordering capability along with our availability of dedicated, highly experienced staff provides our customers the easy way to purchase sanitary products.

THE RIGHT WAY
THE FAST WAY
THE EASY WAY



ISSUE DATE: October 25, 2019

CERTIFICATE AUTHORIZATION NUMBER: 3756



THIS IS TO CERTIFY THAT

Wayland Industries
N30W22383 Green Rd, Unit H, Waukesha, WI 53186

is hereby authorized to continue to apply the
3-A Symbol to the models of equipment, conforming to 3-A Sanitary Standards for:

Number 63-04
63-04 (Sanitary Fittings)

set forth below

CIP Models: All parts supplied in 304 and 316L SS

Wx14AM7-x, Wx14MPHT-x, Wx14MPW-x, Wx14WLMP-x, Wx14WMP-x, Wx16AMP-x, Wx2CMP-x, Wx2KMP, Wx7MP-x, Wx9MP-x, Wx31-14MP-x, Wx32-14MP-x, Wx2WCL-x, Wx2WK-x, Wx2WU-x, WxL2S-x, WxL2KS-x, Wx7RWW-x, Wx7W-x, Wx7WWW-x, Wx9WWWW-x, Wx31W-x, Wx32W-x, Wx16AI-14I-x, Wx16AI-15I-x, Wx15WI-x, Wx14WI-x, Wx15WLI-x, Wx14WLI-x, Wx19MPX-x

CIP/COP Models: All parts supplied in 304 and 316L SS:

Wx14PRF-x, Wx15TRF-x, Wx16A-x

VALID THROUGH: **December 31, 2020**

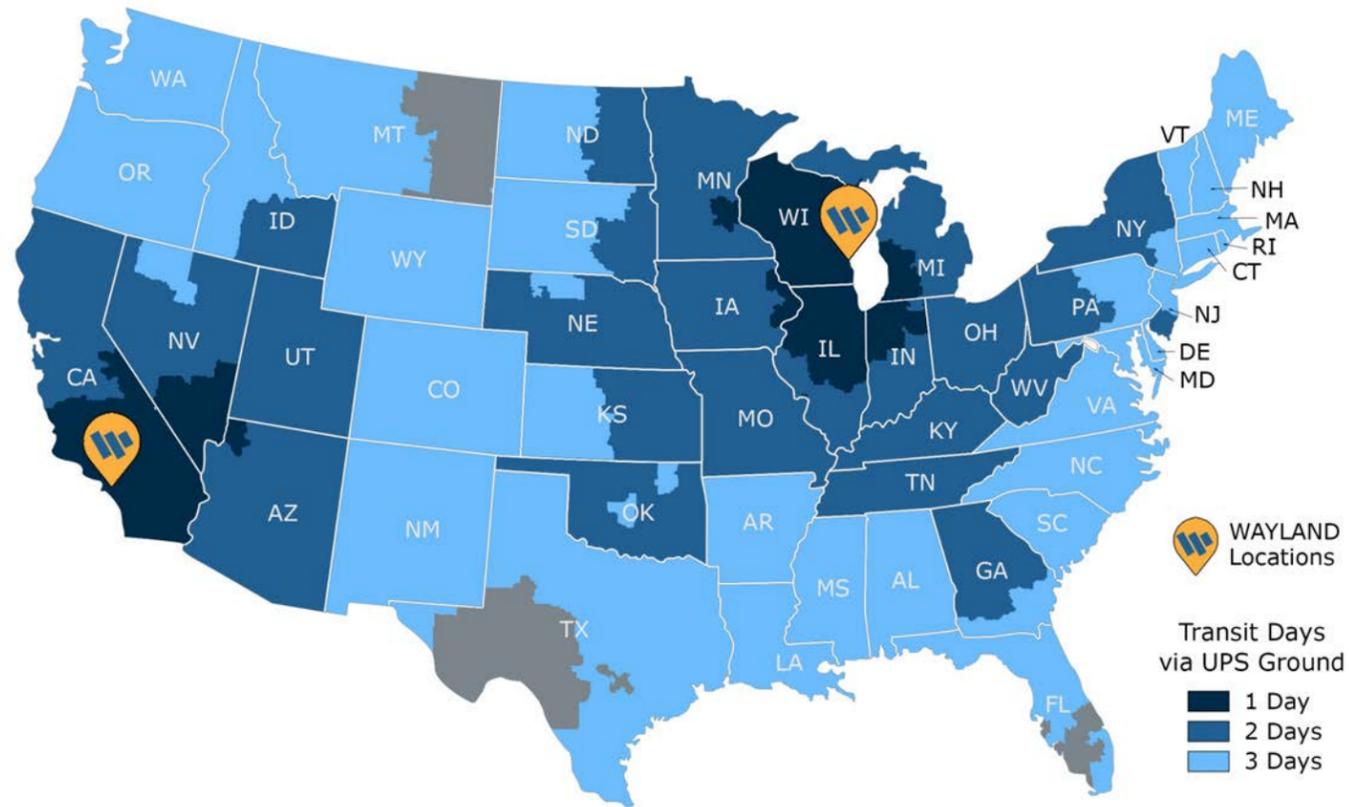
Timothy R. Rugh
Executive Director
3-A Sanitary Standards, Inc.

The issuance of this authorization for the use of the 3-A Symbol is based upon the voluntary certification, by the applicant for it, that the equipment listed above complies fully with the 3-A Sanitary Standard(s) designated. Legal responsibility for compliance is solely that of the holder of this Certificate of Authorization, and 3-A Sanitary Standards, Inc. does not warrant that the holder of an authorization at all times complies with the provisions of the said 3-A Sanitary Standards. This in no way affects the responsibility of 3-A Sanitary Standards, Inc. to take appropriate action in such cases in which evidence of nonconformance has been established.

NEXT TPV INSPECTION/REPORT DUE: **October 2024**

UPS SHIPPING CHART

2 Locations to Serve You Better!



California Branch

7157 Paramount Blvd
Pico Rivera, CA 90660



Wisconsin Branch

N30 W22383 Green Road, Unit H
Waukesha, Wisconsin 53186



WAYLAND PART NUMBER BREAKDOWN

INDUSTRY STANDARD		
2	Elbow (45° or 90°)	22 Female Adapter
7	Tee	23 Thermometer Cap
9	Cross	28 Y or Lateral
13	Clamp or Hex Nut	31 Concentric Reducer
14	Ferrule or Hose Adapter	32 Eccentric Reducer
15	Ferrule Threaded or Female	38 Flange
16	End Cap	40 Gaskets
17	Adapter	42 Fractional Gaskets
19	Weld x NPT	45 Check Valve
21	Male Adapter	54 Sight Glass
		BFV Butterfly Valve
		BV Ball Valve
		TC Tri-Clamp
		SV Sample Valve
		MP in part number usually indicates a Clamp fitting
		W in part number usually indicates a Weld part
		I in a part number usually indicates I-Line fitting

HOW TO ORDER

W + Alloy + Product Code - Size (in.) - Polish

4 = 304 L2S .50 7 = Polished
6 = 316L 13MHM .75 1 = Unpolished
 14AM7 1.0
 ... 1.5
 ... *

**only applicable for weld fittings*

Example:
W + 4 + L2S - 2 - 7
(W4L2S-2-7)

AUSTENITIC STAINLESS STEEL CHEMISTRY

ELEMENT	Carbon (C)	Manganese (Mn)	Phosphorus (P)	Sulfur (S)	Silicone (Si)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
	max	max	max	max	max			
304 ¹ (wt %)	0.080	2.00	0.045	0.030	0.75	18.0-20.0	8.0-10.5	--
316L ¹ (wt %)	0.035	2.00	0.045	0.030	0.75	16.0-18.0	10.0-14.0	2.0-3.0

¹ AISI specifications for wrought material. Percentages are maximums unless a range is specified

FINISH DESIGNATIONS FOR TUBING & FITTINGS

FINISHED NUMBER	FINISH CONDITIONS
1	Mill Finish (bright annealed, pickled, sand blast or tumbled)
3	Polished 180 grit inside diameter (ID) only
5	Polished 150 grit outside diameter (OD) only
7	Polished 180 grit outside/inside diameter (OD/ID) only
3A	Polished 150 grit outside (OD) 180 grit inside (ID)

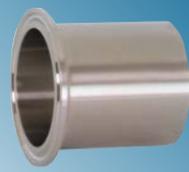


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NEW!



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**NOW STOCKING
3A FOOD GRADE A270 TUBING!**

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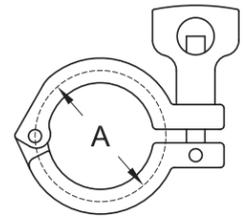
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CLAMPS

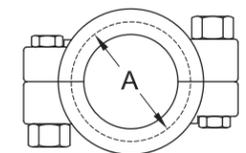
SINGLE PIN HEAVY DUTY CLAMPS WITH CROSS HOLE WING NUT 13MHM



TUBE O.D.	SERVICE PRESSURE RATING @ 70° F *	SERVICE PRESSURE RATING @ 250° F *	A	BOX QNTY	304 PART NUMBER
1/2" & 3/4"	1500	1200	1.062	100	W413MHM-.50/.75
1" & 1-1/2"	500	300	2.122	50	W413MHM-1/15
2"	450	250	2.654	50	W413MHM-2
2-1/2"	400	200	3.185	40	W413MHM-25
3"	350	175	3.717	30	W413MHM-3
4"	300	150	4.820	40	W413MHM-4
5"	225	100	5.820	30	W413MHM-5
6"	150	75	6.695	15	W413MHM-6
8"	100	50	8.695	8	W413MHM-8
10"	75	40	10.740	5	W413MHM-10
12"	50	25	12.740	5	W413MHM-12

* Wing nut tightened to 25 in. lb. of torque

HIGH PRESSURE BOLTED CLAMPS 13MHP



TUBE O.D.	SERVICE PRESSURE RATING @ 70° F	SERVICE PRESSURE RATING @ 250° F	A	BOX QNTY	304 PART NUMBER
1/2" & 3/4"	1500	1200	1.062	100	W413MHP-.50/.75
1" & 1-1/2"	1500	1200	2.046	40	W413MHP-1/15
2"	1000	800	2.578	50	W413MHP-2
2-1/2"	1000	800	3.110	40	W413MHP-25
3"	1000	800	3.640	35	W413MHP-3
4"	800	600	4.744	25	W413MHP-4
5"	300	200	5.826	25	W413MHP-5
6"	300	200	6.632	15	W413MHP-6
8"	250	150	8.638	8	W413MHP-8
10"	200	125	10.740	5	W413MHP-10
12"	150	100	12.740	5	W413MHP-12

* All nuts are tightened to 20 ft. lb. of torque
PTFE Gaskets are not recommended for use on 13MHP

CLAMPS

THREE SEGMENT CLAMPS 13MHM3P **NEW!**

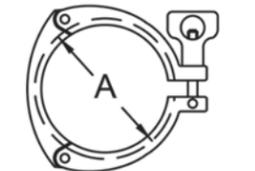
TUBE O.D.	SERVICE PRESSURE RATING @ 70° F	SERVICE PRESSURE RATING @ 250° F	A	304 PART NUMBER
1" & 1-1/2"	600	300	2.122	W413MHM3P-1/15
2"	550	275	2.654	W413MHM3P-2
2-1/2"	450	225	3.185	W413MHM3P-25
3"	350	175	3.717	W413MHM3P-3
4"	300	150	4.820	W413MHM3P-4



CROSS HOLE WING NUT W413WNX



SERRATED WING NUT W413WNS

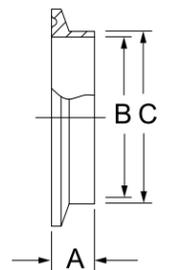


CLAMP FERRULES

SHORT WELD FERRULES 14WMP

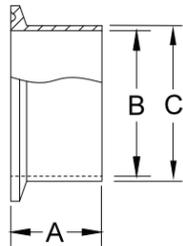


TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2"	0.500	0.370	0.500	--	W614WMP-.50
3/4"	0.500	0.620	0.750	--	W614WMP-.75
1"	0.500	0.870	1.000	W414WMP-1	W614WMP-1
1-1/2"	0.500	1.370	1.500	W414WMP-15	W614WMP-15
2"	0.500	1.870	2.000	W414WMP-2	W614WMP-2
2-1/2"	0.500	2.370	2.500	W414WMP-25	W614WMP-25
3"	0.500	2.870	3.000	W414WMP-3	W614WMP-3
4"	0.625	3.834	4.000	W414WMP-4	W614WMP-4
5"	0.750	4.782	5.000	--	W614WMP-5
6"	0.875	5.782	6.000	W414WMP-6	W614WMP-6
8"	0.875	7.760	8.000	W414WMP-8	W614WMP-8
10"	0.875	9.782	10.000	W414WMP-10	W614WMP-10
12"	0.875	11.782	12.000	W414WMP-12	W614WMP-12



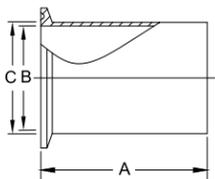
CLAMP FERRULES

LONG WELD FERRULES 14AM7



TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2"	1.125	0.370	0.500	--	W614AM7-.50
3/4"	1.125	0.620	0.750	--	W614AM7-.75
1"	1.125	0.870	1.000	W414AM7-1	W614AM7-1
1-1/2"	1.125	1.370	1.500	W414AM7-15	W614AM7-15
2"	1.125	1.870	2.000	W414AM7-2	W614AM7-2
2-1/2"	1.125	2.370	2.500	W414AM7-25	W614AM7-25
3"	1.125	2.870	3.000	W414AM7-3	W614AM7-3
4"	1.125	3.834	4.000	W414AM7-4	W614AM7-4
5"	1.125	4.782	5.000	--	W614AM7-5
6"	1.500	5.782	6.000	W414AM7-6	W614AM7-6
8"	1.500	7.760	8.000	W414AM7-8	W614AM7-8
10"	1.750	9.782	10.000	W414AM7-10	W614AM7-10
12"	1.750	11.782	12.000	W414AM7-12	W614AM7-12

AUTOMATIC WELD FERRULES TL14AM7

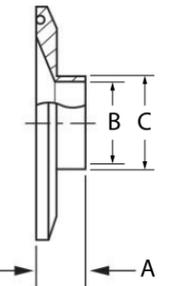


TUBE O.D.	A	B	C	316L PART NUMBER
1/2"	1.750	0.370	0.500	W6TL14AM7-.50
3/4"	1.750	0.620	0.750	W6TL14AM7-.75
1"	1.750	0.870	1.000	W6TL14AM7-1
1-1/2"	1.750	1.370	1.500	W6TL14AM7-15
2"	2.250	1.870	2.000	W6TL14AM7-2
2-1/2"	2.250	2.370	2.500	W6TL14AM7-25
3"	2.250	2.870	3.000	W6TL14AM7-3
4"	2.250	3.830	4.000	W6TL14AM7-4
6"	3.000	5.780	6.000	W6TL14AM7-6

*3A Finish - 32RA ID/OD polish

CLAMP FERRULES

REDUCING FERRULES 31WMP

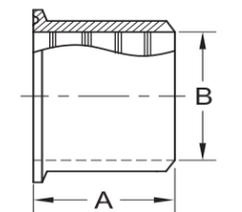


CLAMP END	TUBE O.D.	A	B	C	316L PART NUMBER
2"	1"	0.500	0.87	1.000	W631WMP-2X1
2"	1-1/2"	0.500	1.37	1.500	W631WMP-2X15
2-1/2"	1-1/2"	0.500	1.37	1.500	W631WMP-25X15
2-1/2"	2"	0.500	1.87	2.000	W631WMP-25X2
3"	2"	0.500	1.87	2.000	W631WMP-3X2
3"	2-1/2"	0.500	2.37	2.500	W631WMP-3X25
4"	2"	0.625	1.87	2.000	W631WMP-4X2
4"	2-1/2"	0.625	2.37	2.500	W631WMP-4X25
4"	3"	0.625	2.87	3.000	W631WMP-4X3

*Ferrules are tapered

ROLL-ON FERRULES 14RMP

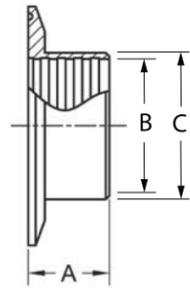
TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	.750	1.005	W414RMP-1	W614RMP-1
1-1/2"	1.125	1.505	W414RMP-15	W614RMP-15
2"	1.312	2.005	W414RMP-2	W614RMP-2
2-1/2"	1.375	2.505	W414RMP-25	W614RMP-25
3"	1.437	3.005	W414RMP-3	W614RMP-3
4"	1.500	4.005	W414RMP-4	W614RMP-4
6"	2.000	6.005	W414RMP-6	W614RMP-6



CLAMP FERRULES

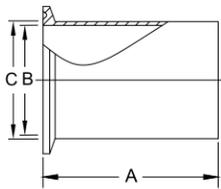
REDUCING ROLL-ON FERRULES 31RMP

NEW!



CLAMP END	TUBE O.D.	A	B	C	316L PART NUMBER
1-1/2"	1"	0.750	1.007	1.160	W631RMP-15X1
2"	1"	0.750	1.007	1.160	W631RMP-2X1
2"	1-1/2"	1.125	1.507	1.676	W631RMP-2X15
2-1/2"	1-1/2"	1.125	1.507	1.676	W631RMP-25X15
2-1/2"	2"	1.125	2.007	2.192	W631RMP-25X2
3"	1-1/2"	1.313	1.507	1.676	W631RMP-3X15
3"	2"	1.313	2.007	2.192	W631RMP-3X2
4"	2-1/2"	1.375	2.507	2.692	W631RMP-4X25
4"	3"	1.375	3.007	3.224	W631RMP-4X3

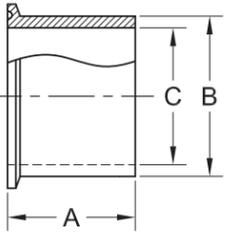
TANK FERRULES (LIGHT DUTY) 14WLMP



TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2"	3.000	0.370	0.500	--	W614WLMP-.50
3/4"	3.000	0.620	0.750	--	W614WLMP-.75
1"	3.000	0.870	1.000	W414WLMP-1	W614WLMP-1
1-1/2"	3.000	1.370	1.500	W414WLMP-15	W614WLMP-15
2"	3.000	1.870	2.000	W414WLMP-2	W614WLMP-2
2-1/2"	3.000	2.370	2.500	W414WLMP-25	W614WLMP-25
3"	4.000	2.870	3.000	W414WLMP-3	W614WLMP-3
4"	4.000	3.834	4.000	W414WLMP-4	W614WLMP-4
6"	6.000	5.782	6.000	W414WLMP-6	W614WLMP-6
8"	6.000	7.760	8.000	--	W614WLMP-8
10"	6.000	9.782	10.000	--	W614WLMP-10
12"	6.000	11.782	12.000	--	W614WLMP-12

CLAMP FERRULES

TANK FERRULES (HEAVY DUTY)* 14MPW

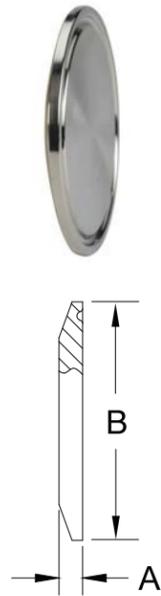


TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2"	1.625	0.502	0.321	--	W614MPW-.50
3/4"	1.625	0.750	0.574	--	W614MPW-.75
1"	1.625	1.160	0.870	W414MPW-1	W614MPW-1
1-1/2"	1.625	1.676	1.370	W414MPW-15	W614MPW-15
2"	1.750	2.192	1.870	W414MPW-2	W614MPW-2
2-1/2"	1.750	2.708	2.370	W414MPW-25	W614MPW-25
3"	1.813	3.224	2.870	W414MPW-3	W614MPW-3
4"	2.125	4.256	3.834	W414MPW-4	W614MPW-4
6"	2.500	6.192	5.758	W414MPW-6	W614MPW-6
8"	2.500	8.192	7.758	--	W614MPW-8

*ASME SA479 CERTIFIED

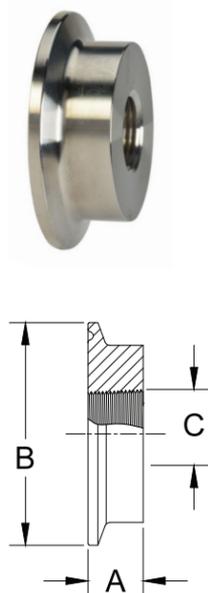
CLAMP CAPS

SOLID END CAPS 16AMP



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1/2" & 3/4"	0.187	0.992	--	W616AMP-.50/.75
1" & 1-1/2"	0.250	1.984	W416AMP-1/15	W616AMP-1/15
2"	0.250	2.516	W416AMP-2	W616AMP-2
2-1/2"	0.250	3.047	W416AMP-25	W616AMP-25
3"	0.250	3.579	W416AMP-3	W616AMP-3
4"	0.312	4.682	W416AMP-4	W616AMP-4
5"	0.312	5.687	--	W616AMP-5
6"	0.437	6.570	W416AMP-6	W616AMP-6
8"	0.437	8.570	W416AMP-8	W616AMP-8
10"	0.437	10.570	W416AMP-10	W616AMP-10
12"	0.437	12.570	W416AMP-12	W616AMP-12

THERMOMETER CAPS 23BMP

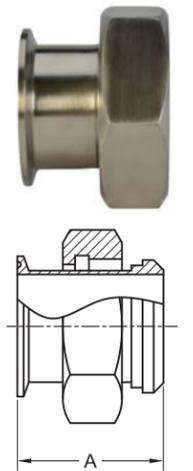


TUBE O.D.	NPT (C)	A	B	304 PART NUMBER	316L PART NUMBER
1/2"	1/4"	0.500	0.933	W423BMP-.50X.25	W623BMP-.50X.25
3/4"	1/4"	0.500	0.933	W423BMP-.75X.25	W623BMP-.75X.25
1"	1/2"	0.625	1.984	W423BMP-1X.50	W623BMP-1X.50
1-1/2"	1/4"	0.625	1.984	W423BMP-15X.25	W623BMP-15X.25
1-1/2"	3/8"	0.625	1.984	W423BMP-15X.375	--
1-1/2"	1/2"	0.625	1.984	W423BMP-15X.50	--
1-1/2"	3/4"	0.625	1.984	W423BMP-15X.75	W623BMP-15X.75
2"	3/4"	0.625	2.516	W423BMP-2X.75	W623BMP-2X.75
2-1/2"	3/4"	0.625	3.047	W423BMP-25X.75	W623BMP-25X.75
3"	3/4"	0.625	3.579	W423BMP-3X.75	W623BMP-3X.75
4"	3/4"	0.625	4.682	W423BMP-4X.75	W623BMP-4X.75

CLAMP ADAPTERS

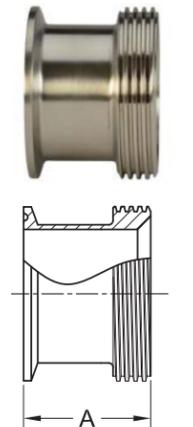
CLAMP X PLAIN BEVEL SEAT ADAPTERS W/ HEX NUT 17MP-14

TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	3.000	W417MP-14-1	W617MP-14-1
1-1/2"	3.000	W417MP-14-15	W617MP-14-15
2"	3.000	W417MP-14-2	W617MP-14-2
2-1/2"	3.500	W417MP-14-25	W617MP-14-25
3"	3.750	W417MP-14-3	W617MP-14-3
4"	4.000	W417MP-14-4	W617MP-14-4



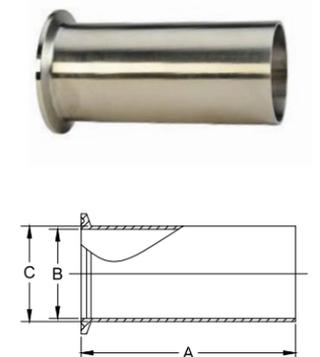
CLAMP X THREADED BEVEL SEAT ADAPTERS 17MP-15

TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.843	W417MP-15-1	W617MP-15-1
1-1/2"	1.843	W417MP-15-15	W617MP-15-15
2"	1.875	W417MP-15-2	W617MP-15-2
2-1/2"	2.000	W417MP-15-25	W617MP-15-25
3"	2.031	W417MP-15-3	W617MP-15-3
4"	2.156	W417MP-15-4	W617MP-15-4



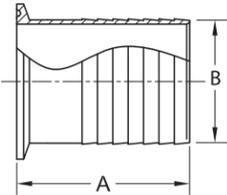
TYGON® HOSE ADAPTERS 14MPHT

TUBE O.D.	A	B	C	316L PART NUMBER
1/2"	4.000	0.370	0.500	W614MPHT-.50
3/4"	4.000	0.620	0.750	W614MPHT-.75
1"	4.500	0.870	1.000	W614MPHT-1
1-1/2"	4.500	1.370	1.500	W614MPHT-15
2"	4.500	1.870	2.000	W614MPHT-2
2-1/2"	4.500	2.370	2.500	W614MPHT-25
3"	4.500	2.870	3.000	W614MPHT-3
4"	4.625	3.834	4.000	W614MPHT-4
6"	6.000	5.782	6.000	W614MPHT-6



CLAMP ADAPTERS

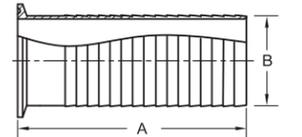
RUBBER HOSE ADAPTERS 14MPHR **NEW REDUCING SIZES!**



TUBE O.D.	HOSE SIZE	A	B	304 PART NUMBER	316L PART NUMBER
1/2"	1/8"	1.250	0.147	--	W614MPHR-.50X.125
	1/4"	1.500	0.281	--	W614MPHR-.50X.25
	3/8"	1.500	0.405	--	W614MPHR-.50X.375
	1/2"	1.500	0.540	--	W614MPHR-.50
	3/4"	1.500	0.767	--	W614MPHR-.50X.75
3/4"	1/4"	1.500	0.312	--	W614MPHR-.75X.25
	3/8"	1.500	0.405	--	W614MPHR-.75X.375
	1/2"	1.500	0.540	--	W614MPHR-.75X.50
1"	3/4"	1.500	0.767	--	W614MPHR-.75
	3/8"	1.500	0.405	--	W614MPHR-1X.375
	1/2"	1.500	0.540	--	W614MPHR-1X.50
	3/4"	1.688	0.767	--	W614MPHR-1X.75
1-1/2"	1"	1.688	1.000	W414MPHR-1	W614MPHR-1
	1/4"	1.500	0.312	--	W614MPHR-15X.25
	3/8"	1.500	0.405	--	W614MPHR-15X.375
	1/2"	1.500	0.540	--	W614MPHR-15X.50
	5/8"	1.500	0.625	--	W614MPHR-15X.625
	3/4"	1.500	0.767	--	W614MPHR-15X.75
	1"	1.687	1.000	--	W614MPHR-15X1
2"	1-1/2"	1.687	1.500	W414MPHR-15	W614MPHR-15
	1/2"	1.812	0.540	--	W614MPHR-2X.50
	1"	2.312	1.000	--	W614MPHR-2X1
	1-1/2"	2.312	1.500	--	W614MPHR-2X15
2-1/2"	2"	2.312	2.000	W414MPHR-2	W614MPHR-2
	2-1/2"	2.343	2.500	W414MPHR-25	W614MPHR-25
	3"	3.094	3.000	W414MPHR-3	W614MPHR-3
4"	4"	3.406	4.000	W414MPHR-4	W614MPHR-4
6"	6"	3.406	6.000	--	W614MPHR-6
8"	8"	3.406	8.000	--	W614MPHR-8

CLAMP ADAPTERS

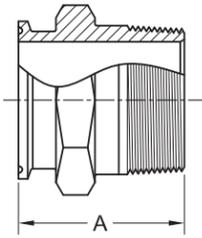
BREWERY HOSE BARB ADAPTERS 14MPHRL



TUBE O.D.	A	B	304 PART NUMBER
1	3.500	1.030	W414MPHRL-1
1-1/2"	5.000	1.530	W414MPHRL-15
2"	5.000	2.030	W414MPHRL-2
2-1/2"	5.500	2.530	W414MPHRL-25
3"	5.500	3.030	W414MPHRL-3
4"	5.500	4.030	W414MPHRL-4

CLAMP ADAPTERS

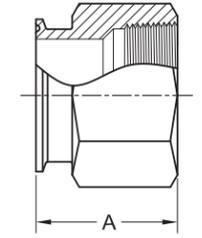
MALE NPT ADAPTERS 21MP **NEW REDUCING SIZES!**



TUBE O.D.	NPT SIZE	A	304 PART NUMBER	316L PART NUMBER
1/2"	1/4"	2.000	--	W621MP-.50X.25
	3/8"	2.000	--	W621MP-.50X.375
	1/2"	1.625	--	W621MP-.50
	3/4"	2.000	--	W621MP-.50X.75
3/4"	1/4"	2.000	--	W621MP-.75X.25
	3/8"	2.000	--	W621MP-.75X.375
	1/2"	2.000	--	W621MP-.75X.50
	3/4"	1.787	--	W621MP-.75
1"	1/2"	2.187	--	W621MP-1X.50
	3/4"	2.187	--	W621MP-1X.75
	1"	2.250	W421MP-1	W621MP-1
	1-1/4"	2.438	--	W621MP-1X1.25
	1-1/2"	2.438	--	W621MP-1X15
1-1/2"	2"	2.638	--	W621MP-1X2
	1/4"	2.161	--	W621MP-15X.25
	3/8"	2.161	--	W621MP-15X.375
	1/2"	2.187	--	W621MP-15X.50
	3/4"	2.187	--	W621MP-15X.75
	1"	2.438	--	W621MP-15X1
	1-1/4"	2.438	--	W621MP-15X1.25
	1-1/2"	2.250	W421MP-15	W621MP-15
2"	2"	2.625	--	W621MP-15X2
	1/2"	2.188	--	W621MP-2X.50
	3/4"	2.188	--	W621MP-2X.75
	1"	2.469	--	W621MP-2X1
	1-1/2"	2.625	--	W621MP-2X15
2-1/2"	2"	2.638	W421MP-2	W621MP-2
	1/2"	2.781	--	W621MP-25X.50
	1"	2.626	--	W621MP-25X1
	1-1/2"	2.781	--	W621MP-25X15
	2"	2.781	--	W621MP-25X2
3"	2-1/2"	2.875	W421MP-25	W621MP-25
	1-1/2"	2.638	--	W621MP-3X15
	2"	3.000	--	W621MP-3X2
4"	3"	3.000	W421MP-3	W621MP-3
	4"	3.155	W421MP-4	W621MP-4

CLAMP ADAPTERS

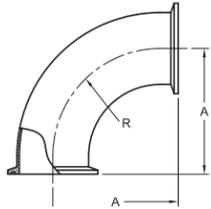
FEMALE NPT ADAPTERS 22MP **NEW REDUCING SIZES!**



TUBE O.D.	NPT SIZE	A	304 PART NUMBER	316L PART NUMBER
1/2"	1/4"	1.500	--	W622MP-.50X.25
	3/8"	1.500	--	W622MP-.50X.375
	1/2"	1.500	--	W622MP-.50
	3/4"	1.625	--	W622MP-.50X.75
3/4"	1/4"	1.500	--	W622MP-.75X.25
	1/2"	1.500	--	W622MP-.75X.50
	3/4"	1.625	--	W622MP-.75
1"	1/4"	1.500	--	W622MP-1X.25
	1/2"	1.625	--	W622MP-1X.50
	3/4"	1.625	--	W622MP-1X.75
	1"	1.625	W422MP-1	W622MP-1
	1-1/4"	2.187	--	W622MP-1X1.25
1-1/2"	3/8"	1.625	--	W622MP-15X.375
	1/2"	1.625	--	W622MP-15X.50
	3/4"	1.625	--	W622MP-15X.75
	1"	1.625	--	W622MP-15X1
	1-1/2"	2.250	W422MP-15	W622MP-15
	2"	2.185	--	W622MP-15X2
2"	1"	1.687	--	W622MP-2X1
	1-1/2"	1.729	--	W622MP-2X15
	2"	2.344	W422MP-2	W622MP-2
2-1/2"	2-1/2"	2.187	--	W622MP-2X25
	2"	2.187	--	W622MP-25X2
3"	2-1/2"	2.097	W422MP-25	W622MP-25
	2"	2.187	--	W622MP-3X2
	2-1/2"	2.187	--	W622MP-3X25
4"	3"	2.187	W422MP-3	W622MP-3
	4"	3.000	W422MP-4	W622MP-4

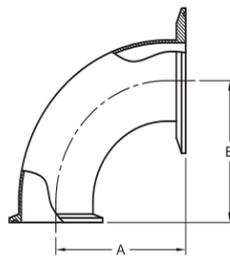
CLAMP ELBOWS

90° CLAMP ELBOWS 2CMP



TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	1.625	1.125	--	W62CMP-.50
3/4"	1.625	1.125	--	W62CMP-.75
1"	2.000	1.500	W42CMP-1	W62CMP-1
1-1/2"	2.750	2.250	W42CMP-15	W62CMP-15
2"	3.500	3.000	W42CMP-2	W62CMP-2
2-1/2"	4.250	3.750	W42CMP-25	W62CMP-25
3"	5.000	4.500	W42CMP-3	W62CMP-3
4"	6.625	6.000	W42CMP-4	W62CMP-4
6"	9.875	9.000	W42CMP-6	W62CMP-6
8"	12.875	12.000	--	W62CMP-8 NEW!
10"	15.875	15.000	--	W62CMP-10 NEW!
12"	18.875	18.000	--	W62CMP-12 NEW!

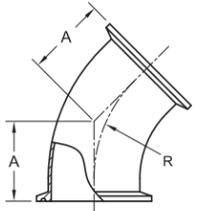
90° NON-TAPERED REDUCING CLAMP ELBOWS 2CMP-31MP



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	2.000	2.000	W42CMP-31MP-15X1	W62CMP-31MP-15X1
2" X 1"	2.000	2.000	W42CMP-31MP-2X1	W62CMP-31MP-2X1
2" X 1-1/2"	2.750	2.750	W42CMP-31MP-2X15	W62CMP-31MP-2X15
2-1/2" X 1-1/2"	2.750	2.750	W42CMP-31MP-25X15	W62CMP-31MP-25X15
2-1/2" X 2"	3.500	3.500	W42CMP-31MP-25X2	W62CMP-31MP-25X2
3" X 1-1/2"	2.750	2.750	W42CMP-31MP-3X15	W62CMP-31MP-3X15
3" X 2"	3.500	3.500	W42CMP-31MP-3X2	W62CMP-31MP-3X2
3" X 2-1/2"	4.250	4.250	W42CMP-31MP-3X25	W62CMP-31MP-3X25
4" X 2-1/2"	4.250	4.250	W42CMP-31MP-4X25	W62CMP-31MP-4X25
4" X 3"	5.125	5.000	W42CMP-31MP-4X3	W62CMP-31MP-4X3

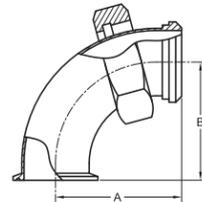
CLAMP ELBOWS

45° CLAMP ELBOWS 2KMP



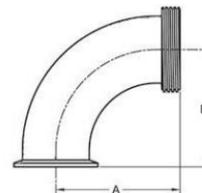
TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	0.966	1.125	--	W62KMP-.50
3/4"	0.966	1.125	--	W62KMP-.75
1"	1.125	1.500	W42KMP-1	W62KMP-1
1-1/2"	1.437	2.250	W42KMP-15	W62KMP-15
2"	1.750	3.000	W42KMP-2	W62KMP-2
2-1/2"	2.062	3.750	W42KMP-25	W62KMP-25
3"	2.375	4.500	W42KMP-3	W62KMP-3
4"	3.125	6.000	W42KMP-4	W62KMP-4
6"	4.625	9.000	W42KMP-6	W62KMP-6
8"	5.875	12.000	--	W62KMP-8 NEW!
10"	7.125	15.000	--	W62KMP-10 NEW!
12"	8.375	18.000	--	W62KMP-12 NEW!

90° CLAMP BY PLAIN BEVEL SEAT WITH HEX NUT ELBOWS 2FMP-14



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	2.218	2.000	W42FMP-14-1	W62FMP-14-1
1-1/2"	2.968	2.750	W42FMP-14-15	W62FMP-14-15
2"	3.750	3.500	W42FMP-14-2	W62FMP-14-2
2-1/2"	4.625	4.250	W42FMP-14-25	W62FMP-14-25
3"	5.406	5.000	W42FMP-14-3	W62FMP-14-3
4"	7.031	6.625	W42FMP-14-4	W62FMP-14-4

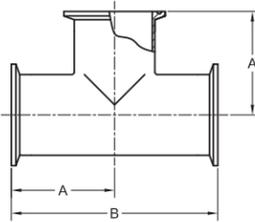
90° CLAMP BY THREAD BEVEL SEAT ELBOWS 2FMP-15



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	2.218	2.000	W42FMP-15-1	W62FMP-15-1
1-1/2"	2.968	2.750	W42FMP-15-15	W62FMP-15-15
2"	3.750	3.500	W42FMP-15-2	W62FMP-15-2
2-1/2"	4.625	4.250	W42FMP-15-25	W62FMP-15-25
3"	5.406	5.000	W42FMP-15-3	W62FMP-15-3
4"	7.031	6.625	W42FMP-15-4	W62FMP-15-4

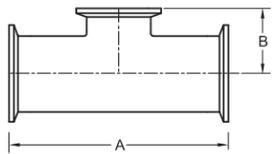
CLAMP TEES

CLAMP TEES 7MP



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1/2"	2.375	4.750	--	W67MP-.50
3/4"	2.500	5.000	--	W67MP-.75
1"	2.375	4.750	W47MP-1	W67MP-1
1-1/2"	2.750	5.500	W47MP-15	W67MP-15
2"	3.500	7.000	W47MP-2	W67MP-2
2-1/2"	3.500	7.000	W47MP-25	W67MP-25
3"	3.750	7.500	W47MP-3	W67MP-3
4"	4.500	9.000	W47MP-4	W67MP-4
6"	6.500	13.000	W47MP-6	W67MP-6
8"	6.430	12.850	--	W67MP-8 NEW!
10"	7.930	15.850	--	W67MP-10 NEW!
12"	9.430	18.850	--	W67MP-12 NEW!

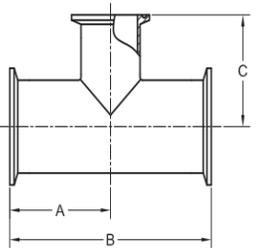
SHORT OUTLET CLAMP TEE 7MPS **NEW!**



TUBE O.D.	A	B	316L PART NUMBER
1"	4.750	1.130	W67MPS-1
1-1/2"	5.500	1.380	W67MPS-15
2"	7.000	1.630	W67MPS-2
2-1/2"	7.000	1.880	W67MPS-25
3"	7.500	2.130	W67MPS-3
4"	9.000	2.750	W67MPS-4

CLAMP TEES

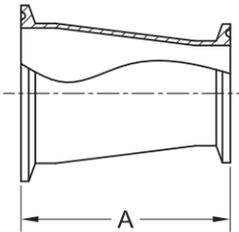
CLAMP REDUCING TEES 7RMP



TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.500	5.000	2.500	--	W67RMP-.75X.50
1" X 1/2"	2.625	5.250	2.625	--	W67RMP-1X.50
1" X 3/4"	2.625	5.250	2.625	--	W67RMP-1X.75
1-1/2" X 1/2"	2.875	5.750	2.875	--	W67RMP-15X.50
1-1/2" X 3/4"	2.875	5.250	2.875	--	W67RMP-15X.75
1-1/2" X 1"	2.156	4.312	1.875	W47RMP-15X1	W67RMP-15X1
2" X 1/2"	3.375	6.750	3.125	--	W67RMP-2X.5
2" X 3/4"	3.375	6.750	3.125	--	W67RMP-2X.75
2" X 1"	2.562	5.125	2.125	W47RMP-2X1	W67RMP-2X1
2" X 1-1/2"	2.562	5.125	2.406	W47RMP-2X15	W67RMP-2X15
2-1/2" X 1"	2.844	5.688	2.656	--	W67RMP-25X1
2-1/2" X 1-1/2"	2.844	5.688	2.656	W47RMP-25X15	W67RMP-25X15
2-1/2" X 2"	2.844	5.688	2.812	W47RMP-25X2	W67RMP-25X2
3" X 1"	3.093	6.188	1.440	--	W67RMP-3X1
3" X 1-1/2"	3.093	6.188	2.906	W47RMP-3X15	W67RMP-3X15
3" X 2"	3.093	6.188	3.063	W47RMP-3X2	W67RMP-3X2
3" X 2-1/2"	3.093	6.188	3.093	W47RMP-3X25	W67RMP-3X25
4" X 1"	4.063	8.125	4.500	--	W67RMP-4X1
4" X 1-1/2"	4.063	8.125	3.406	W47RMP-4X15	W67RMP-4X15
4" X 2"	4.063	8.125	3.563	W47RMP-4X2	W67RMP-4X2
4" X 2-1/2"	4.063	8.125	3.594	W47RMP-4X25	W67RMP-4X25
4" X 3"	4.063	8.125	3.594	W47RMP-4X3	W67RMP-4X3
6" X 2"	6.471	12.94	5.000	--	W67RMP-6X2
6" X 3"	6.315	12.63	6.125	--	W67RMP-6X3
6" X 4"	6.375	12.75	6.375	--	W67RMP-6X4
8" X 4"	7.847	15.69	6.750	--	W67RMP-8X4 NEW!
8" X 6"	7.847	15.69	7.471	--	W67RMP-8X6 NEW!

CLAMP REDUCERS

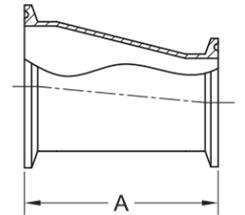
CLAMP CONCENTRIC REDUCERS 31-14MP



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.000	--	W631-14MP-.75X.50
1" X 1/2"	3.000	--	W631-14MP-1X.50
1" X 3/4"	2.000	--	W631-14MP-1X.75
1-1/2" X 1/2"	5.000	--	W631-14MP-15X.50
1-1/2" X 3/4"	4.000	--	W631-14MP-15X.75
1-1/2" X 1"	3.000	W431-14MP-15X1	W631-14MP-15X1
2" X 1/2"	7.000	--	W631-14MP-2X.50
2" X 3/4"	6.000	--	W631-14MP-2X.75
2" X 1"	5.000	W431-14MP-2X1	W631-14MP-2X1
2" X 1-1/2"	3.000	W431-14MP-2X15	W631-14MP-2X15
2-1/2" X 1"	6.000	W431-14MP-25X1	W631-14MP-25X1
2-1/2" X 1-1/2"	5.000	W431-14MP-25X15	W631-14MP-25X15
2-1/2" X 2"	3.000	W431-14MP-25X2	W631-14MP-25X2
3" X 1"	9.000	W431-14MP-3X1	W631-14MP-3X1
3" X 1-1/2"	7.000	W431-14MP-3X15	W631-14MP-3X15
3" X 2"	5.000	W431-14MP-3X2	W631-14MP-3X2
3" X 2-1/2"	3.000	W431-14MP-3X25	W631-14MP-3X25
4" X 1"	11.125	W431-14MP-4X1	W631-14MP-4X1
4" X 1-1/2"	11.125	W431-14MP-4X15	W631-14MP-4X15
4" X 2"	9.125	W431-14MP-4X2	W631-14MP-4X2
4" X 2-1/2"	7.125	W431-14MP-4X25	W631-14MP-4X25
4" X 3"	5.125	W431-14MP-4X3	W631-14MP-4X3
6" X 2"	6.875	W431-14MP-6X2	W631-14MP-6X2
6" X 3"	6.875	W431-14MP-6X3	W631-14MP-6X3
6" X 4"	7.000	W431-14MP-6X4	W631-14MP-6X4
8" X 4"	7.500	--	W631-14MP-8X4
8" X 6"	7.750	--	W631-14MP-8X6

CLAMP REDUCERS

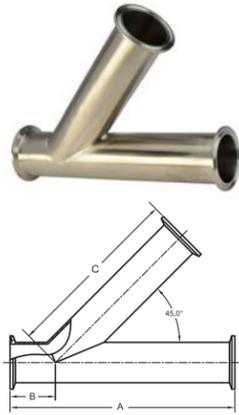
CLAMP ECCENTRIC REDUCERS 32-14MP



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.000	--	W632-14MP-.75X.50
1" X 1/2"	3.000	--	W632-14MP-1X.50
1" X 3/4"	2.000	--	W632-14MP-1X.75
1-1/2" X 1/2"	5.000	--	W632-14MP-15X.50
1-1/2" X 3/4"	4.000	--	W632-14MP-15X.75
1-1/2" X 1"	3.000	W432-14MP-15X1	W632-14MP-15X1
2" X 1/2"	7.000	--	W632-14MP-2X.50
2" X 3/4"	6.000	--	W632-14MP-2X.75
2" X 1"	5.000	W432-14MP-2X1	W632-14MP-2X1
2" X 1-1/2"	3.000	W432-14MP-2X15	W632-14MP-2X15
2-1/2" X 1"	6.000	W432-14MP-25X1	W632-14MP-25X1
2-1/2" X 1-1/2"	5.000	W432-14MP-25X15	W632-14MP-25X15
2-1/2" X 2"	3.000	W432-14MP-25X2	W632-14MP-25X2
3" X 1"	9.000	W432-14MP-3X1	W632-14MP-3X1
3" X 1-1/2"	7.000	W432-14MP-3X15	W632-14MP-3X15
3" X 2"	5.000	W432-14MP-3X2	W632-14MP-3X2
3" X 2-1/2"	3.000	W432-14MP-3X25	W632-14MP-3X25
4" X 1"	11.125	W432-14MP-4X1	W632-14MP-4X1
4" X 1-1/2"	11.125	W432-14MP-4X15	W632-14MP-4X15
4" X 2"	9.125	W432-14MP-4X2	W632-14MP-4X2
4" X 2-1/2"	7.125	W432-14MP-4X25	W632-14MP-4X25
4" X 3"	5.125	W432-14MP-4X3	W632-14MP-4X3
6" X 2"	6.875	W432-14MP-6X2	W632-14MP-6X2
6" X 3"	6.875	W432-14MP-6X3	W632-14MP-6X3
6" X 4"	7.000	W432-14MP-6X4	W632-14MP-6X4
8" X 4"	7.500	--	W632-14MP-8X4
8" X 6"	7.750	--	W632-14MP-8X6

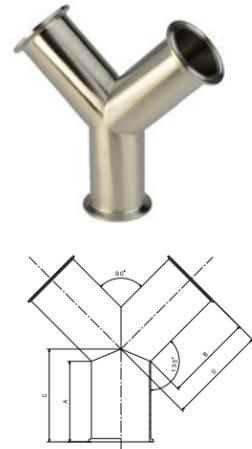
MISCELLANEOUS CLAMP CONFIGURATIONS

CLAMP LATERALS 28AMP



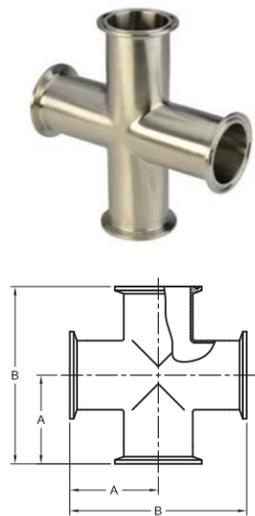
TUBE O.D.	A	B	C	316L PART NUMBER
1"	7.000	1.500	5.500	W628AMP-1
1-1/2"	8.375	1.687	6.688	W628AMP-15
2"	9.750	2.125	7.625	W628AMP-2
2-1/2"	11.000	2.000	9.000	W628AMP-25
3"	11.750	2.375	9.375	W628AMP-3
4"	14.062	2.687	11.375	W628AMP-4
6"	18.250	5.000	16.380	W628AMP-6 NEW!

CLAMP TRUE Y 28BMP



TUBE O.D.	A	B	C	D	316L PART NUMBER
1"	2.500	2.938	2.707	3.145	W628BMP-1
1-1/2"	2.500	2.938	2.810	3.248	W628BMP-15
2"	3.125	3.750	3.538	4.164	W628BMP-2
2-1/2"	3.870	4.625	4.393	5.142	W628BMP-25
3"	4.500	5.375	5.121	5.996	W628BMP-3
4"	6.000	6.000	6.828	6.828	W628BMP-4
6"	8.688	9.500	9.563	10.375	W628BMP-6 NEW!

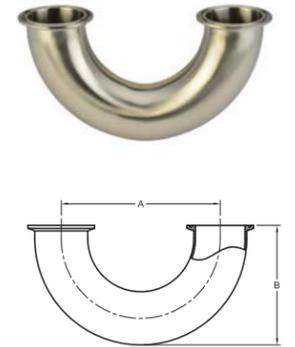
CLAMP CROSSES 9MP



TUBE O.D.	A	B	316L PART NUMBER
1/2"	1.250	2.500	W69MP-.50
3/4"	2.375	4.750	W69MP-.75
1"	2.375	4.750	W69MP-1
1-1/2"	2.750	5.500	W69MP-15
2"	3.500	7.000	W69MP-2
2-1/2"	3.500	7.000	W69MP-25
3"	3.750	7.500	W69MP-3
4"	4.500	9.000	W69MP-4
6"	6.375	12.750	W69MP-6 NEW!

MISCELLANEOUS CLAMP CONFIGURATIONS

CLAMP 180° RETURN BENDS 2UMP



TUBE O.D.	A	B	316L PART NUMBER
1"	3.000	2.500	W62UMP-1
1-1/2"	4.500	3.500	W62UMP-15
2"	6.000	4.500	W62UMP-2
2-1/2"	7.500	5.500	W62UMP-25
3"	9.000	6.500	W62UMP-3
4"	12.000	8.625	W62UMP-4
6"	18.000	12.875	W62UMP-6

SPOOL ASSEMBLY SPOOL

TUBE O.D.	A (minimum length)	304 PART NUMBER	316L PART NUMBER
1/2"	2.250	--	W6SPOOL*-.50
3/4"	2.250	--	W6SPOOL*-.75
1"	2.250	W4SPOOL*-1	W6SPOOL*-1
1-1/2"	2.250	W4SPOOL*-15	W6SPOOL*-15
2"	2.250	W4SPOOL*-2	W6SPOOL*-2
2-1/2"	2.250	W4SPOOL*-25	W6SPOOL*-25
3"	2.250	W4SPOOL*-3	W6SPOOL*-3
4"	2.250	W4SPOOL*-4	W6SPOOL*-4
6"	2.250	W4SPOOL*-6	W6SPOOL*-6

* Various lengths and end connections available.

CUSTOM FABRICATION

LET OUR EXPERIENCED SALES TECHNICIANS HELP WITH YOUR CUSTOM FABRICATION PROJECTS. CALL FOR DETAILS.



CLAMP GASKETS

CLAMP GASKETS 40MP - 42MP

SIZE	GASKET O.D.	GASKET I.D.	EPDM	PTFE	FKM	BUNA	SILICONE
1/2"	.860	0.460	42MPE-.50	42MPG-.50	42MPSFY-.50	42MPU-.50	42MPX-.50
3/4"	.860	0.640	42MPE-.75	42MPG-.75	42MPSFY-.75	42MPU-.75	42MPX-.75
1"	1.984	0.870	40MPE-1	40MPG-1	40MPSFY-1	40MPU-1	40MPX-1
1-1/2"	1.984	1.370	40MPE-15	40MPG-15	40MPSFY-15	40MPU-15	40MPX-15
2"	2.516	1.870	40MPE-2	40MPG-2	40MPSFY-2	40MPU-2	40MPX-2
2-1/2"	3.047	2.370	40MPE-25	40MPG-25	40MPSFY-25	40MPU-25	40MPX-25
3"	3.579	2.870	40MPE-3	40MPG-3	40MPSFY-3	40MPU-3	40MPX-3
4"	4.682	3.834	40MPE-4	40MPG-4	40MPSFY-4	40MPU-4	40MPX-4
5"	6.507	5.817	40MPE-5	40MPG-5	40MPSFY-5	40MPU-5	40MPX-5
6"	6.562	5.782	40MPE-6	40MPG-6	40MPSFY-6	40MPU-6	40MPX-6
8"	8.602	7.782	40MPE-8	40MPG-8	40MPSFY-8	40MPU-8	40MPX-8
10"	9.782	10.570	40MPE-10	40MPG-10	40MPSFY-10	40MPU-10	40MPX-10
12"	11.760	12.570	40MPE-12	40MPG-12	40MPSFY-12	40MPU-12	40MPX-12

METAL DETECTABLE CLAMP GASKETS 40MP-MD (BLUE) **NEW!**

SIZE	GASKET O.D.	GASKET I.D.	EPDM	BUNA	FKM
1"	1.984	0.870	40MPE-MD-1	40MPE-MD-1	40MPSFY-MD-1
1-1/2"	1.984	1.370	40MPE-MD-15	40MPE-MD-15	40MPSFY-MD-15
2"	2.516	1.870	40MPE-MD-2	40MPE-MD-2	40MPSFY-MD-2
2-1/2"	3.047	2.370	40MPE-MD-25	40MPE-MD-25	40MPSFY-MD-25
3"	3.579	2.870	40MPE-MD-3	40MPE-MD-3	40MPSFY-MD-3
4"	4.682	3.834	40MPE-MD-4	40MPE-MD-4	40MPSFY-MD-4
6"	6.562	5.782	40MPE-MD-6	40MPE-MD-6	40MPSFY-MD-6

FLANGED GASKETS 40MPF **NEW!**

SIZE	GASKET O.D.	GASKET I.D.	EPDM	BUNA	FKM	SILICONE
1"	1.984	0.870	40MPF-E-1	40MPFU-1	40MPFSFY-1	40MPFX-1
1-1/2"	1.984	1.370	40MPF-E-15	40MPFU-15	40MPFSFY-15	40MPFX-15
2"	2.516	1.870	40MPF-E-2	40MPFU-2	40MPFSFY-2	40MPFX-2
2-1/2"	3.047	2.370	40MPF-E-25	40MPFU-25	40MPFSFY-25	40MPFX-25
3"	3.579	2.870	40MPF-E-3	40MPFU-3	40MPFSFY-3	40MPFX-3
4"	4.682	3.834	40MPF-E-4	40MPFU-4	40MPFSFY-4	40MPFX-4
6"	6.562	5.782	40MPF-E-6	40MPFU-6	40MPFSFY-6	40MPFX-6
8"	8.602	7.782	40MPF-E-8	40MPFU-8	40MPFSFY-8	40MPFX-8
10"	9.782	10.570	40MPF-E-10	40MPFU-10	40MPFSFY-10	40MPFX-10
12"	11.760	12.570	40MPF-E-12	40MPFU-12	40MPFSFY-12	40MPFX-12

GASKET MATERIALS COLOR CODING

Many sanitary elastomeric materials are the same in appearance. Sanitary gaskets are specifically color coded with dots to easily identify the gasket material. Please refer to this chart to visually identify each material.

MATERIAL	PART # ID	COLOR	COLOR CODE	USEFUL TEMPERATURE
BUNA	U	BLACK	ONE OR THREE RED DOTS	-25°F to 225°F
BUNA	UW	WHITE	ONE RED DOT	-25°F to 225°F
EPDM SULFUR CURED	E	BLACK	ONE GREEN DOT	-40°F to 275°F
EPDM PEROXIDE CURED	E	BLACK	THREE GREEN DOTS	-40°F to 275°F
FKM	SFY	BLACK / BROWN	ONE WHITE ONE YELLOW	-15°F to 375°F
FKM	WSFY	WHITE	ONE YELLOW	-15°F to 375°F
SILICONE PEROXIDE CURED	XW	WHITE	ONE PINK DOT	-50°F to 400°F
SILICONE PLATINUM CURED	X	CLEAR	NO DOT	-50°F to 400°F
PTFE	G	WHITE	NO DOT	-10°F to 300°F
PTFE WITH 50% 316 PARTICLES	GTS	SILVER	NO DOT	-20°F to 450°F

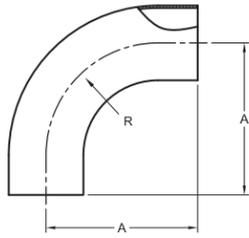
WE ALSO PROVIDE:

- MESH SCREEN GASKETS
- ORFICE PLATE GASKETS
- PERFORATED GASKETS
- ENVELOPE GASKETS

CALL FOR DETAILS!

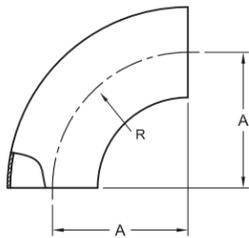
WELD ELBOWS

POLISHED 90° WELD ELBOWS WITH TANGENTS L2S



TUBE O.D.	A	R	BOX QUANTITY	304 PART NUMBER	316L PART NUMBER
1/2"	3.000	1.125	--	--	W6L2S-.50-7
3/4"	3.000	1.125	--	--	W6L2S-.75-7
1"	2.062	1.500	200	W4L2S-1-7	W6L2S-1-7
1-1/2"	2.937	2.250	160	W4L2S-15-7	W6L2S-15-7
2"	4.062	3.000	70	W4L2S-2-7	W6L2S-2-7
2-1/2"	5.187	3.750	30	W4L2S-25-7	W6L2S-25-7
3"	6.312	4.500	20	W4L2S-3-7	W6L2S-3-7
4"	8.312	6.000	8	W4L2S-4-7	W6L2S-4-7
6"	12.460	9.000	2	W4L2S-6-7	W6L2S-6-7

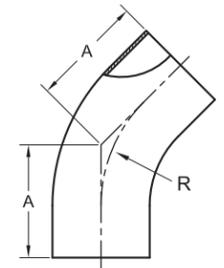
POLISHED 90° WELD ELBOWS 2WCL



TUBE O.D.	A	R	BOX QUANTITY	304 PART NUMBER	316L PART NUMBER
1/2"	1.125	1.125	--	--	W62WCL-.50-7
3/4"	1.125	1.125	--	--	W62WCL-.75-7
1"	1.500	1.500	200	W42WCL-1-7	W62WCL-1-7
1-1/2"	2.250	2.250	100	W42WCL-15-7	W62WCL-15-7
2"	3.000	3.000	100	W42WCL-2-7	W62WCL-2-7
2-1/2"	3.750	3.750	50	W42WCL-25-7	W62WCL-25-7
3"	4.500	4.500	32	W42WCL-3-7	W62WCL-3-7
4"	6.000	6.000	12	W42WCL-4-7	W62WCL-4-7
5"	7.500	7.500	6	--	W62WCL-5-7
6"	9.000	9.000	4	W42WCL-6-7	W62WCL-6-7
8"	12.000	12.000	4	W42WCL-8-7	W62WCL-8-7
10"	15.000	15.000	--	--	W62WCL-10-7
12"	18.000	18.000	--	--	W62WCL-12-7

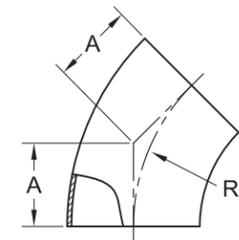
WELD ELBOWS

POLISHED 45° WELD ELBOWS WITH TANGENTS L2KS



TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	2.250	1.125	--	W6L2KS-.50-7
3/4"	2.250	1.125	--	W6L2KS-.75-7
1"	1.188	1.500	W4L2KS-1-7	W6L2KS-1-7
1-1/2"	1.625	2.250	W4L2KS-15-7	W6L2KS-15-7
2"	2.312	3.000	W4L2KS-2-7	W6L2KS-2-7
2-1/2"	3.000	3.750	W4L2KS-25-7	W6L2KS-25-7
3"	3.688	4.500	W4L2KS-3-7	W6L2KS-3-7
4"	4.812	6.000	W4L2KS-4-7	W6L2KS-4-7
6"	6.000	9.000	W4L2KS-6-7	W6L2KS-6-7

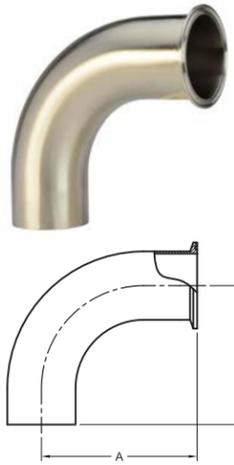
POLISHED 45° WELD ELBOWS 2WK



TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	0.466	1.125	--	W62WK-.50-7
3/4"	0.466	1.125	--	W62WK-.75-7
1"	0.625	1.500	W42WK-1-7	W62WK-1-7
1-1/2"	0.937	2.250	W42WK-15-7	W62WK-15-7
2"	1.250	3.000	W42WK-2-7	W62WK-2-7
2-1/2"	1.562	3.750	W42WK-25-7	W62WK-25-7
3"	1.875	4.500	W42WK-3-7	W62WK-3-7
4"	2.500	6.000	W42WK-4-7	W62WK-4-7
5"	3.125	7.500	--	W62WK-5-7
6"	3.750	9.000	W42WK-6-7	W62WK-6-7
8"	5.000	12.000	W42WK-8-7	W62WK-8-7
10"	6.250	15.000	--	W62WK-10-7
12"	7.500	18.000	--	W62WK-12-7

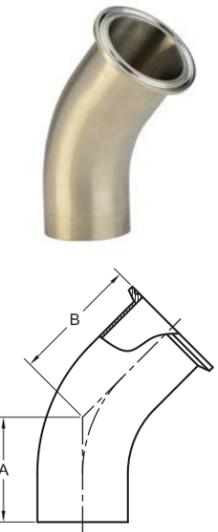
WELD ELBOWS

POLISHED 90° CLAMP X WELD ELBOWS L2CM



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	2.563	2.063	W4L2CM-1	W6L2CM-1
1-1/2"	3.438	2.938	W4L2CM-15	W6L2CM-15
2"	4.563	4.063	W4L2CM-2	W6L2CM-2
2-1/2"	5.688	5.188	W4L2CM-25	W6L2CM-25
3"	6.813	6.313	W4L2CM-3	W6L2CM-3
4"	8.938	8.313	W4L2CM-4	W6L2CM-4
6"	12.346	11.500	--	W6L2CM-6 NEW!

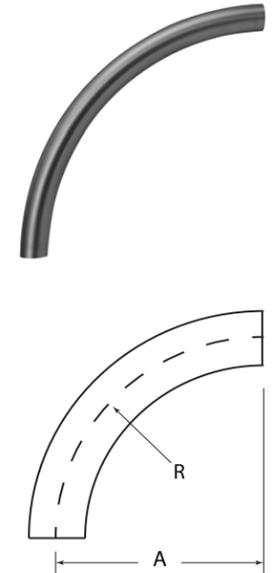
POLISHED 45° CLAMP X WELD ELBOWS L2KM



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.188	1.688	W4L2KM-1	W6L2KM-1
1-1/2"	1.625	2.125	W4L2KM-15	W6L2KM-15
2"	2.312	2.812	W4L2KM-2	W6L2KM-2
2-1/2"	3.000	3.500	W4L2KM-25	W6L2KM-25
3"	3.688	4.188	W4L2KM-3	W6L2KM-3
4"	4.812	5.437	W4L2KM-4	W6L2KM-4
6"	6.228	7.075	--	W6L2KM-6 NEW!

SWEEP ELBOWS

POLISHED 90° WELD SWEEP ELBOWS 2SXL



TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	12	12	W42SXL12-.50	W62SXL12-.50
3/4"	12	12	W42SXL12-.75	W62SXL12-.75
1"	12	12	W42SXL12-1	W62SXL12-1
	24	24	W42SXL24-1	W62SXL24-1
1-1/2"	12	12	W42SXL12-15	W62SXL12-15
	18	18	W42SXL18-15	W62SXL18-15
	24	24	W42SXL24-15	W62SXL24-15
2"	36	36	W42SXL36-15	W62SXL36-15
	12	12	W42SXL12-2	W62SXL12-2
	18	18	W42SXL18-2	W62SXL18-2
	24	24	W42SXL24-2	W62SXL24-2
2-1/2"	36	36	W42SXL36-2	W62SXL36-2
	48	48	W42SXL48-2	W62SXL48-2
	12	12	W42SXL12-25	W62SXL12-25
3"	18	18	W42SXL18-25	W62SXL18-25
	24	24	W42SXL24-25	W62SXL24-25
	36	36	W42SXL36-25	W62SXL36-25
4"	48	48	W42SXL48-25	W62SXL48-25
	12	12	W42SXL12-3	W62SXL12-3
	18	18	W42SXL18-3	W62SXL18-3
	24	24	W42SXL24-3	W62SXL24-3
4"	36	36	W42SXL36-3	W62SXL36-3
	48	48	W42SXL48-3	W62SXL48-3
	12	12	W42SXL12-4	W62SXL12-4
	18	18	W42SXL18-4	W62SXL18-4
6"	24	24	W42SXL24-4	W62SXL24-4
	36	36	W42SXL36-4	W62SXL36-4
	48	48	W42SXL48-4	W62SXL48-4
	15	15	W42SXL15-6	W62SXL15-6
6"	24	24	W42SXL24-6	W62SXL24-6
	36	36	W42SXL36-6	W62SXL36-6
	48	48	W42SXL48-6	W62SXL48-6

**304 Sweeps have tangents:
 • 1" & 1-1/2" OD = 4 inch tangents
 • 2" OD and up = tangents are 2x the OD

Other Sweep Elbow Combinations Available:
 2SXLMP - 90° CLAMP END SWEEP
 2KSXL - 45° WELD SWEEP ELBOW
 2KSXLMP - 45° CLAMP END SWEEP

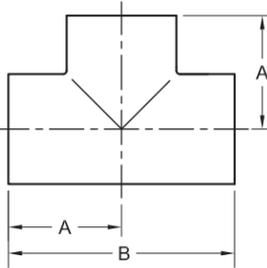
POLISHED WELD FITTINGS

POLISHED WELD FITTINGS



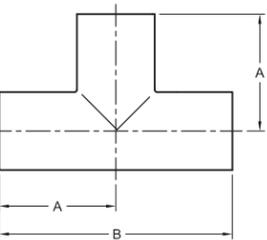
WELD TEES

POLISHED SHORT WELD TEES 7WWW



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.125	2.250	W47WWW-1-7	W67WWW-1-7
1-1/2"	1.656	3.312	W47WWW-15-7	W67WWW-15-7
2"	2.063	4.125	W47WWW-2-7	W67WWW-2-7
2-1/2"	2.344	4.688	W47WWW-25-7	W67WWW-25-7
3"	2.594	5.188	W47WWW-3-7	W67WWW-3-7
4"	3.438	6.875	W47WWW-4-7	W67WWW-4-7

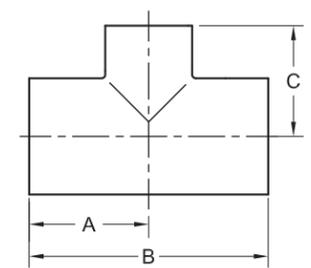
POLISHED LONG WELD TEES 7W



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1/2"	1.875	3.750	--	W67W-.50-7
3/4"	2.000	4.000	--	W67W-.75-7
1"	1.875	3.750	W47W-1-7	W67W-1-7
1-1/2"	2.250	4.500	W47W-15-7	W67W-15-7
2"	3.000	6.000	W47W-2-7	W67W-2-7
2-1/2"	3.000	6.000	W47W-25-7	W67W-25-7
3"	3.250	6.500	W47W-3-7	W67W-3-7
4"	3.875	7.750	W47W-4-7	W67W-4-7
5"	5.217	10.430	--	W67W-5-7 NEW!
6"	5.625	11.250	W47W-6-7	W67W-6-7
8"	7.000	14.000	W47W-8-7	W67W-8-7
10"	8.500	17.000	W47W-10-7	W67W-10-7 NEW!
12"	10.000	20.000	--	W67W-12-7 NEW!

WELD TEES

POLISHED REDUCING SHORT WELD TEES 7RWWW



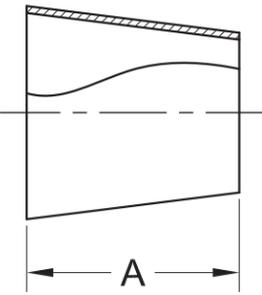
TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.000	4.000	2.000	--	W67RWWW-.75X.50-7
1" X 1/2"	2.125	4.250	2.125	--	W67RWWW-1X.50-7
1" X 3/4"	2.125	4.250	2.125	--	W67RWWW-1X.75-7
1-1/2" X 1/2"	2.375	4.750	2.375	--	W67RWWW-15X.50-7
1-1/2" X 3/4"	2.375	4.750	2.375	--	W67RWWW-15X.75-7
1-1/2" X 1"	1.656	3.312	1.375	W47RWWW-15X1-7	W67RWWW-15X1-7
2" X 1/2"	2.875	5.750	2.630	--	W67RWWW-2X.50-7
2" X 3/4"	2.875	5.750	2.630	--	W67RWWW-2X.75-7
2" X 1"	2.062	4.125	1.625	W47RWWW-2X1-7	W67RWWW-2X1-7
2" X 1-1/2"	2.062	4.125	1.905	W47RWWW-2X15-7	W67RWWW-2X15-7
2-1/2" X 1"	2.344	4.688	1.875	W47RWWW-25X1-7	W67RWWW-25X1-7
2-1/2" X 1-1/2"	2.344	4.688	2.156	W47RWWW-25X15-7	W67RWWW-25X15-7
2-1/2" X 2"	2.344	4.688	2.312	W47RWWW-25X2-7	W67RWWW-25X2-7
3" X 1"	2.594	5.188	2.125	W47RWWW-3X1-7	W67RWWW-3X1-7
3" X 1-1/2"	2.594	5.188	2.406	W47RWWW-3X15-7	W67RWWW-3X15-7
3" X 2"	2.594	5.188	2.562	W47RWWW-3X2-7	W67RWWW-3X2-7
3" X 2-1/2"	2.594	5.188	2.594	W47RWWW-3X25-7	W67RWWW-3X25-7
4" X 1"	3.438	6.875	2.625	W47RWWW-4X1-7	W67RWWW-4X1-7
4" X 1-1/2"	3.438	6.875	2.906	W47RWWW-4X15-7	W67RWWW-4X15-7
4" X 2"	3.438	6.875	3.062	W47RWWW-4X2-7	W67RWWW-4X2-7
4" X 2-1/2"	3.438	6.875	3.094	W47RWWW-4X25-7	W67RWWW-4X25-7
4" X 3"	3.438	6.875	3.157	W47RWWW-4X3-7	W67RWWW-4X3-7
6" X 2"	5.625	11.250	4.500	W47RWWW-6X2-7	W67RWWW-6X2-7
6" X 3"	5.625	11.250	4.875	W47RWWW-6X3-7	W67RWWW-6X3-7
6" X 4"	5.625	11.250	5.125	W47RWWW-6X4-7	W67RWWW-6X4-7
8" X 2"	7.000	14.000	6.125	--	W67RWWW-8X2-7 NEW!
8" X 3"	7.000	14.000	6.125	--	W67RWWW-8X3-7 NEW!
8" X 4"	7.000	14.000	6.125	--	W67RWWW-8X4-7 NEW!
8" X 6"	7.000	14.000	6.625	--	W67RWWW-8X6-7 NEW!

POLISHED WELD FITTINGS

POLISHED WELD FITTINGS

WELD REDUCERS

POLISHED CONCENTRIC WELD REDUCERS 31W

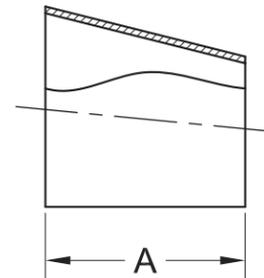


TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	1.000	--	W631W-.75X.50-7
1" X 1/2"	2.000	--	W631W-1X.50-7
1" X 3/4"	1.000	--	W631W-1X.75-7
1-1/2" X 1/2"	4.000	--	W631W-15X.50-7
1-1/2" X 3/4"	3.000	--	W631W-15X.75-7
1-1/2" X 1"	2.000	W431W-15X1-7	W631W-15X1-7
2" X 1/2"	6.000	--	W631W-2X.50-7
2" X 3/4"	5.000	--	W631W-2X.75-7
2" X 1"	4.000	W431W-2X1-7	W631W-2X1-7
2" X 1-1/2"	2.000	W431W-2X15-7	W631W-2X15-7
2-1/2" X 1"	6.000	W431W-25X1-7	W631W-25X1-7
2-1/2" X 1-1/2"	4.000	W431W-25X15-7	W631W-25X15-7
2-1/2" X 2"	2.000	W431W-25X2-7	W631W-25X2-7
3" X 1"	8.000	W431W-3X1-7	W631W-3X1-7
3" X 1-1/2"	6.000	W431W-3X15-7	W631W-3X15-7
3" X 2"	4.000	W431W-3X2-7	W631W-3X2-7
3" X 2-1/2"	2.000	W431W-3X25-7	W631W-3X25-7
4" X 1"	12.000	W431W-4X1-7	W631W-4X1-7
4" X 1-1/2"	10.000	W431W-4X15-7	W631W-4X15-7
4" X 2"	8.000	W431W-4X2-7	W631W-4X2-7
4" X 2-1/2"	6.000	W431W-4X25-7	W631W-4X25-7
4" X 3"	4.000	W431W-4X3-7	W631W-4X3-7
5" X 4"	5.000	--	W631W-5X4-7 NEW!
6" X 2"	5.500	W431W-6X2-7	W631W-6X2-7
6" X 2-1/2"	5.500	--	W631W-6X25-7 NEW!
6" X 3"	5.500	W431W-6X3-7	W631W-6X3-7
6" X 4"	5.500	W431W-6X4-7	W631W-6X4-7
8" X 3"	6.000	--	W631W-8X3-7
8" X 4"	6.000	W431W-8X4-7	W631W-8X4-7
8" X 6"	6.000	W431W-8X6-7	W631W-8X6-7
10" X 6"	7.000	W431W-10X6-7	W631W-10X6-7 NEW!
10" X 8"	7.000	W431W-10X8-7	W631W-10X8-7 NEW!
12" X 6"	8.000	--	W631W-12X6-7 NEW!
12" X 8"	8.000	--	W631W-12X8-7 NEW!

POLISHED WELD FITTINGS

WELD REDUCERS

POLISHED ECCENTRIC WELD REDUCERS 32W



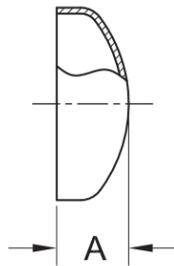
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	1.000	--	W632W-.75X.50-7
1" X 1/2"	2.000	--	W632W-1X.50-7
1" X 3/4"	1.000	--	W632W-1X.75-7
1-1/2" X 1/2"	4.000	--	W632W-15X.50-7
1-1/2" X 3/4"	3.000	--	W632W-15X.75-7
1-1/2" X 1"	2.000	W432W-15X1-7	W632W-15X1-7
2" X 1/2"	6.000	--	W632W-2X.50-7
2" X 3/4"	5.000	--	W632W-2X.75-7
2" X 1"	4.000	W432W-2X1-7	W632W-2X1-7
2" X 1-1/2"	2.000	W432W-2X15-7	W632W-2X15-7
2-1/2" X 1"	6.000	W432W-25X1-7	W632W-25X1-7
2-1/2" X 1-1/2"	4.000	W432W-25X15-7	W632W-25X15-7
2-1/2" X 2"	2.000	W432W-25X2-7	W632W-25X2-7
3" X 1"	8.000	W432W-3X1-7	W632W-3X1-7
3" X 1-1/2"	6.000	W432W-3X15-7	W632W-3X15-7
3" X 2"	4.000	W432W-3X2-7	W632W-3X2-7
3" X 2-1/2"	2.000	W432W-3X25-7	W632W-3X25-7
4" X 1"	12.000	W432W-4X1-7	W632W-4X1-7
4" X 1-1/2"	10.000	W432W-4X15-7	W632W-4X15-7
4" X 2"	8.000	W432W-4X2-7	W632W-4X2-7
4" X 2-1/2"	6.000	W432W-4X25-7	W632W-4X25-7
4" X 3"	4.000	W432W-4X3-7	W632W-4X3-7
5" X 4"	5.000	--	W632W-5X4-7 NEW!
6" X 2"	5.500	W432W-6X2-7	W632W-6X2-7
6" X 2-1/2"	5.500	--	W632W-6X25-7 NEW!
6" X 3"	5.500	W432W-6X3-7	W632W-6X3-7
6" X 4"	5.500	W432W-6X4-7	W632W-6X4-7
8" X 3"	6.000	--	W632W-8X3-7
8" X 4"	6.000	W432W-8X4-7	W632W-8X4-7
8" X 6"	6.000	W432W-8X6-7	W632W-8X6-7
10" X 6"	7.000	--	W632W-10X6-7 NEW!
10" X 8"	7.000	--	W632W-10X8-7 NEW!
12" X 6"	8.000	--	W632W-12X6-7 NEW!
12" X 8"	8.000	--	W632W-12X8-7 NEW!

POLISHED WELD FITTINGS



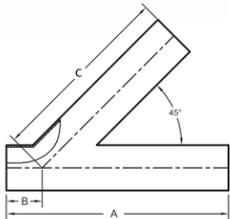
MISCELLANEOUS WELD CONFIGURATIONS

POLISHED DOME CAPS 16W **NEW!**



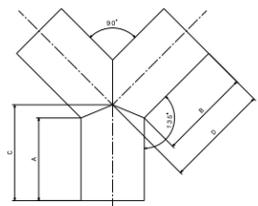
TUBE O.D.	A	316L PART NUMBER
1/2"	0.250	W616W-.50-7
3/4"	0.312	W616W-.75-7
1"	0.375	W616W-1-7
1-1/2"	0.562	W616W-15-7
2"	0.750	W616W-2-7
2-1/2"	1.000	W616W-25-7
3"	1.250	W616W-3-7
4"	1.500	W616W-4-7
6"	1.875	W616W-6-7
8"	2.500	W616W-8-7
10"	3.000	W616W-10-7
12"	3.000	W616W-12-7

POLISHED WELD LATERALS 28WA



TUBE O.D.	A	B	C	316L PART NUMBER
1"	6.000	1.000	5.000	W628WA-1-7
1-1/2"	7.375	1.188	6.188	W628WA-15-7
2"	8.750	1.625	7.125	W628WA-2-7
2-1/2"	10.000	1.500	8.500	W628WA-25-7
3"	10.750	1.875	8.875	W628WA-3-7
4"	12.812	2.015	10.750	W628WA-4-7
6"	16.500	4.000	14.750	W628WA-6-7

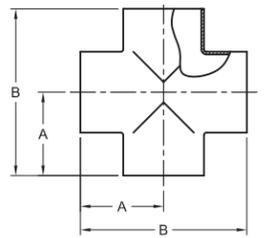
POLISHED WELD TRUE Y 28WB



TUBE O.D.	A	B	C	D	316L PART NUMBER
1"	2.000	2.438	2.207	2.645	W628WB-1-7
1-1/2"	2.000	2.438	2.311	2.749	W628WB-15-7
2"	2.625	3.250	3.038	3.665	W628WB-2-7
2-1/2"	3.375	4.125	3.893	4.643	W628WB-25-7
3"	4.000	4.875	4.621	5.496	W628WB-3-7
4"	5.375	5.375	6.204	6.204	W628WB-4-7
6"	7.813	8.625	9.056	9.868	W628WB-6-7 NEW!

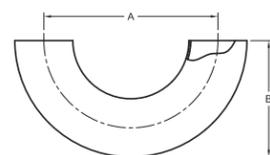
MISCELLANEOUS WELD CONFIGURATIONS

POLISHED WELD CROSSES 9WVWW **3**



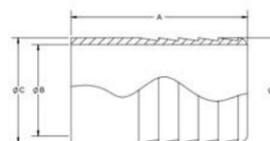
TUBE O.D.	A	B	316L PART NUMBER
1/2"	0.750	1.500	W69WVWW-.50-7
3/4"	1.125	2.250	W69WVWW-.75-7
1"	1.125	2.250	W69WVWW-1-7
1-1/2"	1.656	3.312	W69WVWW-15-7
2"	2.062	4.125	W69WVWW-2-7
2-1/2"	2.343	4.687	W69WVWW-25-7
3"	2.598	5.187	W69WVWW-3-7
4"	3.437	6.875	W69WVWW-4-7
6"	5.625	11.250	W69WVWW-6-7

POLISHED WELD 180° RETURN BENDS 2WU **3**



TUBE O.D.	A	B	316L PART NUMBER
1"	3.000	2.000	W62WU-1-7
1-1/2"	4.500	3.000	W62WU-15-7
2"	6.000	4.000	W62WU-2-7
2-1/2"	7.500	5.000	W62WU-25-7
3"	9.000	6.000	W62WU-3-7
4"	12.000	8.000	W62WU-4-7
6"	18.000	12.000	W62WU-6-7

WELD HOSE ADAPTERS 14WHR **NEW!**



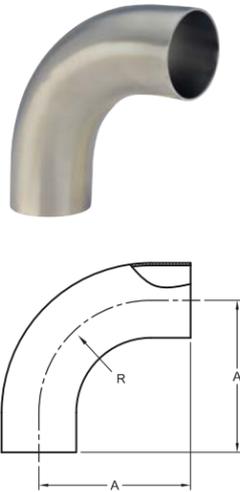
TUBE O.D.	A	316L PART NUMBER
1/2"	1.500	W614WHR-.50
3/4"	1.500	W614WHR-.75
1"	1.690	W614WHR-1
1-1/2"	1.690	W614WHR-15
2"	2.310	W614WHR-2
2-1/2"	2.000	W614WHR-25
3"	3.090	W614WHR-3
4"	3.410	W614WHR-4

POLISHED WELD FITTINGS

POLISHED WELD FITTINGS

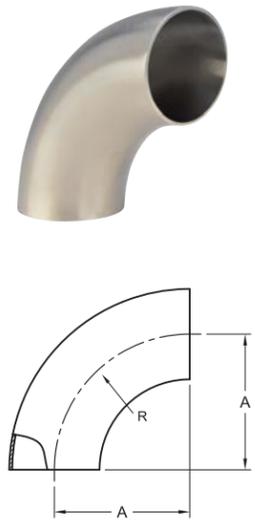
NEW! UNPOLISHED WELD ELBOWS

UNPOLISHED 90° WELD ELBOWS WITH TANGENTS L2S



TUBE O.D.	A	R	BOX QUANTITY	304 PART NUMBER	316L PART NUMBER
1/2"	3.000	1.125	--	--	W6L2S-.50-1
3/4"	3.000	1.125	--	--	W6L2S-.75-1
1"	2.062	1.500	200	W4L2S-1-1	W6L2S-1-1
1-1/2"	2.937	2.250	160	W4L2S-15-1	W6L2S-15-1
2"	4.062	3.000	70	W4L2S-2-1	W6L2S-2-1
2-1/2"	5.187	3.750	30	W4L2S-25-1	W6L2S-25-1
3"	6.312	4.500	20	W4L2S-3-1	W6L2S-3-1
4"	8.312	6.000	8	W4L2S-4-1	W6L2S-4-1

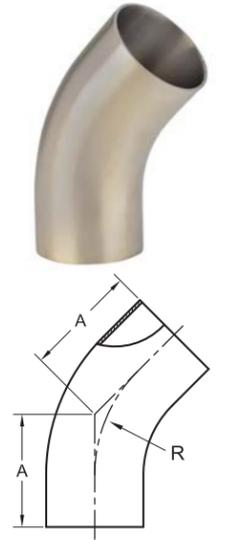
UNPOLISHED 90° WELD ELBOWS 2WCL



TUBE O.D.	A	R	BOX QUANTITY	304 PART NUMBER	316L PART NUMBER
1/2"	1.125	1.125	--	--	W62WCL-.50-1
3/4"	1.125	1.125	--	--	W62WCL-.75-1
1"	1.500	1.500	200	W42WCL-1-1	W62WCL-1-1
1-1/2"	2.250	2.250	100	W42WCL-15-1	W62WCL-15-1
2"	3.000	3.000	100	W42WCL-2-1	W62WCL-2-1
2-1/2"	3.750	3.750	50	W42WCL-25-1	W62WCL-25-1
3"	4.500	4.500	32	W42WCL-3-1	W62WCL-3-1
4"	6.000	6.000	12	W42WCL-4-1	W62WCL-4-1
6"	9.000	9.000	4	W42WCL-6-1	W62WCL-6-1
8"	12.000	12.000	4	W42WCL-8-1	W62WCL-8-1
10"	15.000	15.000	--	W42WCL-10-1	W62WCL-10-1
12"	18.000	18.000	--	W42WCL-12-1	W62WCL-12-1

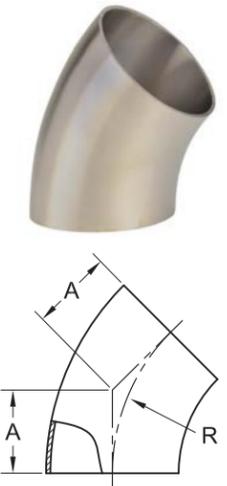
NEW! UNPOLISHED WELD ELBOWS

UNPOLISHED 45° WELD ELBOWS WITH TANGENTS L2KS



TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	2.250	1.125	--	W6L2KS-.50-1
3/4"	2.250	1.125	--	W6L2KS-.75-1
1"	1.188	1.500	W4L2KS-1-1	W6L2KS-1-1
1-1/2"	1.625	2.250	W4L2KS-15-1	W6L2KS-15-1
2"	2.312	3.000	W4L2KS-2-1	W6L2KS-2-1
2-1/2"	3.000	3.750	W4L2KS-25-1	W6L2KS-25-1
3"	3.688	4.500	W4L2KS-3-1	W6L2KS-3-1
4"	4.812	6.000	W4L2KS-4-1	W6L2KS-4-1

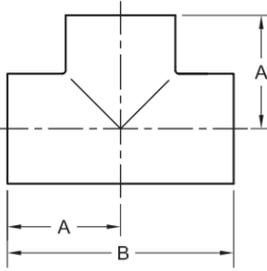
UNPOLISHED 45° WELD ELBOWS 2WK



TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	0.466	1.125	--	W62WK-.50-1
3/4"	0.466	1.125	--	W62WK-.75-1
1"	0.625	1.500	W42WK-1-1	W62WK-1-1
1-1/2"	0.937	2.250	W42WK-15-1	W62WK-15-1
2"	1.250	3.000	W42WK-2-1	W62WK-2-1
2-1/2"	1.562	3.750	W42WK-25-1	W62WK-25-1
3"	1.875	4.500	W42WK-3-1	W62WK-3-1
4"	2.500	6.000	W42WK-4-1	W62WK-4-1
6"	3.750	9.000	W42WK-6-1	W62WK-6-1
8"	5.000	12.000	W42WK-8-1	W62WK-8-1
10"	6.250	15.000	W42WK-10-1	W62WK-10-1
12"	7.500	18.000	W42WK-12-1	W62WK-12-1

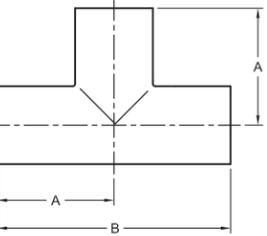
NEW! UNPOLISHED WELD TEES

UNPOLISHED SHORT WELD TEES 7WWW



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.125	2.250	W47WWW-1-1	W67WWW-1-1
1-1/2"	1.656	3.312	W47WWW-15-1	W67WWW-15-1
2"	2.063	4.125	W47WWW-2-1	W67WWW-2-1
2-1/2"	2.344	4.688	W47WWW-25-1	W67WWW-25-1
3"	2.594	5.188	W47WWW-3-1	W67WWW-3-1
4"	3.438	6.875	W47WWW-4-1	W67WWW-4-1

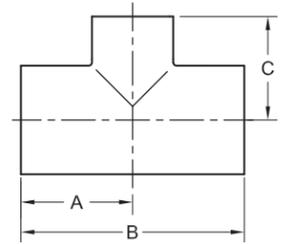
UNPOLISHED LONG WELD TEES 7W



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1/2"	1.875	3.750	--	W67W-.50-1
3/4"	2.000	4.000	--	W67W-.75-1
1"	1.875	3.750	W47W-1-1	W67W-1-1
1-1/2"	2.250	4.500	W47W-15-1	W67W-15-1
2"	3.000	6.000	W47W-2-1	W67W-2-1
2-1/2"	3.000	6.000	W47W-25-1	W67W-25-1
3"	3.250	6.500	W47W-3-1	W67W-3-1
4"	3.875	7.750	W47W-4-1	W67W-4-1
6"	5.625	11.25	W47W-6-1	W67W-6-1
8"	7.000	14.00	W47W-8-1	W67W-8-1

NEW! UNPOLISHED WELD TEES

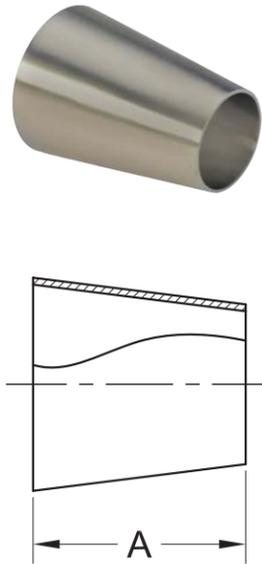
UNPOLISHED REDUCING SHORT WELD TEES 7RWWW



TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.000	4.000	2.000	--	W67RWWW-.75X.50-1
1-1/2" X 1"	1.656	3.312	1.375	W47RWWW-15X1-1	W67RWWW-15X1-1
2" X 1"	2.062	4.125	1.625	W47RWWW-2X1-1	W67RWWW-2X1-1
2" X 1-1/2"	2.062	4.125	1.905	W47RWWW-2X15-1	W67RWWW-2X15-1
2-1/2" X 1"	2.344	4.688	1.875	W47RWWW-25X1-1	W67RWWW-25X1-1
2-1/2" X 1-1/2"	2.344	4.688	2.156	W47RWWW-25X15-1	W67RWWW-25X15-1
2-1/2" X 2"	2.344	4.688	2.312	W47RWWW-25X2-1	W67RWWW-25X2-1
3" X 1"	2.594	5.188	2.125	W47RWWW-3X1-1	W67RWWW-3X1-1
3" X 1-1/2"	2.594	5.188	2.406	W47RWWW-3X15-1	W67RWWW-3X15-1
3" X 2"	2.594	5.188	2.562	W47RWWW-3X2-1	W67RWWW-3X2-1
3" X 2-1/2"	2.594	5.188	2.594	W47RWWW-3X25-1	W67RWWW-3X25-1
4" X 1"	3.438	6.875	2.625	W47RWWW-4X1-1	W67RWWW-4X1-1
4" X 1-1/2"	3.438	6.875	2.906	W47RWWW-4X15-1	W67RWWW-4X15-1
4" X 2"	3.438	6.875	3.062	W47RWWW-4X2-1	W67RWWW-4X2-1
4" X 2-1/2"	3.438	6.875	3.094	W47RWWW-4X25-1	W67RWWW-4X25-1
4" X 3"	3.438	6.875	3.157	W47RWWW-4X3-1	W67RWWW-4X3-1
6" X 2"	5.625	11.250	4.500	W47RWWW-6X2-1	W67RWWW-6X2-1
6" X 3"	5.625	11.250	4.875	W47RWWW-6X3-1	W67RWWW-6X3-1
6" X 4"	5.625	11.250	5.125	W47RWWW-6X4-1	W67RWWW-6X4-1

NEW! UNPOLISHED WELD REDUCERS

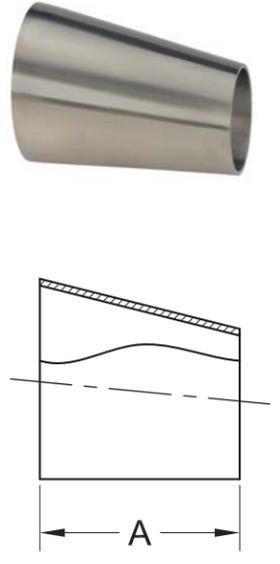
UNPOLISHED CONCENTRIC WELD REDUCERS 31W



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	1.000	--	W631W-.75X.50-1
1" X 1/2"	1.000	--	W631W-1X.50-1
1" X 3/4"	1.000	--	W631W-1X.75-1
1-1/2" X 1/2"	2.000	--	W631W-15X.50-1
1-1/2" X 3/4"	2.000	--	W631W-15X.75-1
1-1/2" X 1"	2.000	W431W-15X1-1	W631W-15X1-1
2" X 1"	4.000	W431W-2X1-1	W631W-2X1-1
2" X 1-1/2"	2.000	W431W-2X15-1	W631W-2X15-1
2-1/2" X 1-1/2"	4.000	W431W-25X15-1	W631W-25X15-1
2-1/2" X 2"	2.000	W431W-25X2-1	W631W-25X2-1
3" X 1"	8.000	W431W-3X1-1	W631W-3X1-1
3" X 1-1/2"	6.000	W431W-3X15-1	W631W-3X15-1
3" X 2"	4.000	W431W-3X2-1	W631W-3X2-1
3" X 2-1/2"	2.000	W431W-3X25-1	W631W-3X25-1
4" X 1"	12.000	W431W-4X1-1	W631W-4X1-1
4" X 1-1/2"	10.000	W431W-4X15-1	W631W-4X15-1
4" X 2"	8.000	W431W-4X2-1	W631W-4X2-1
4" X 2-1/2"	6.000	W431W-4X25-1	W631W-4X25-1
4" X 3"	4.000	W431W-4X3-1	W631W-4X3-1
6" X 2"	5.500	W431W-6X2-1	W631W-6X2-1
6" X 3"	5.500	W431W-6X3-1	W631W-6X3-1
6" X 4"	5.500	W431W-6X4-1	W631W-6X4-1
8" X 4"	6.000	W431W-8X4-1	W631W-8X4-1
8" X 6"	6.000	W431W-8X6-1	W631W-8X6-1

NEW! UNPOLISHED WELD REDUCERS

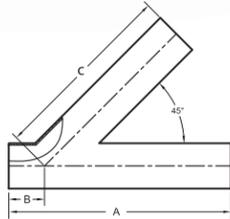
UNPOLISHED ECCENTRIC WELD REDUCERS 32W



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	1.000	--	W632W-.75X.50-1
1" X 1/2"	1.000	--	W632W-1X.50-1
1" X 3/4"	1.000	--	W632W-1X.75-1
1-1/2" X 1/2"	2.000	--	W632W-15X.50-1
1-1/2" X 3/4"	2.000	--	W632W-15X.75-1
1-1/2" X 1"	2.000	W432W-15X1-1	W632W-15X1-1
2" X 1"	4.000	W432W-2X1-1	W632W-2X1-1
2" X 1-1/2"	2.000	W432W-2X15-1	W632W-2X15-1
2-1/2" X 1-1/2"	4.000	W432W-25X15-1	W632W-25X15-1
2-1/2" X 2"	2.000	W432W-25X2-1	W632W-25X2-1
3" X 1"	8.000	W432W-3X1-1	W632W-3X1-1
3" X 1-1/2"	6.000	W432W-3X15-1	W632W-3X15-1
3" X 2"	4.000	W432W-3X2-1	W632W-3X2-1
3" X 2-1/2"	2.000	W432W-3X25-1	W632W-3X25-1
4" X 1"	12.000	W432W-4X1-1	W632W-4X1-1
4" X 1-1/2"	10.000	W432W-4X15-1	W632W-4X15-1
4" X 2"	8.000	W432W-4X2-1	W632W-4X2-1
4" X 2-1/2"	6.000	W432W-4X25-1	W632W-4X25-1
4" X 3"	4.000	W432W-4X3-1	W632W-4X3-1
6" X 2"	5.500	W432W-6X2-1	W632W-6X2-1
6" X 3"	5.500	W432W-6X3-1	W632W-6X3-1
6" X 4"	5.500	W432W-6X4-1	W632W-6X4-1
8" X 4"	6.000	W432W-8X4-1	W632W-8X4-1
8" X 6"	6.000	W432W-8X6-1	W632W-8X6-1

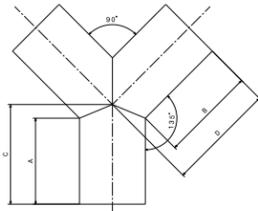
NEW! MISCELLANEOUS WELD CONFIGURATIONS

UNPOLISHED WELD LATERALS 28WA



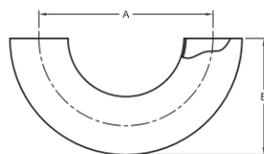
TUBE O.D.	A	B	C	316L PART NUMBER
1"	6.000	1.000	5.000	W628WA-1-1
1-1/2"	7.375	1.188	6.188	W628WA-15-1
2"	8.750	1.625	7.125	W628WA-2-1
2-1/2"	10.000	1.500	8.500	W628WA-25-1
3"	10.750	1.875	8.875	W628WA-3-1
4"	12.812	2.015	10.750	W628WA-4-1
6"	16.500	4.000	14.750	W628WA-6-1

UNPOLISHED WELD TRUE Y 28WB



TUBE O.D.	A	B	C	D	316L PART NUMBER
1"	2.000	2.438	2.207	2.645	W628WB-1-1
1-1/2"	2.000	2.438	2.311	2.749	W628WB-15-1
2"	2.625	3.250	3.038	3.665	W628WB-2-1
2-1/2"	3.375	4.125	3.893	4.643	W628WB-25-1
3"	4.000	4.875	4.621	5.496	W628WB-3-1
4"	5.375	5.375	6.204	6.204	W628WB-4-1

UNPOLISHED WELD 180° RETURN BENDS 2WU



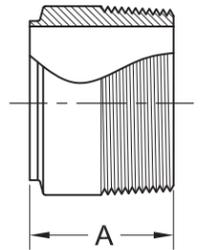
TUBE O.D.	A	B	316L PART NUMBER
1"	3.000	2.000	W62WU-1-1
1-1/2"	4.500	3.000	W62WU-15-1
2"	6.000	4.000	W62WU-2-1
2-1/2"	7.500	5.000	W62WU-25-1
3"	9.000	6.000	W62WU-3-1
4"	12.000	8.000	W62WU-4-1

UNPOLISHED FITTINGS

ADAPTERS

MALE NPT X WELD END ADAPTERS - MACHINE FINISH 19WB

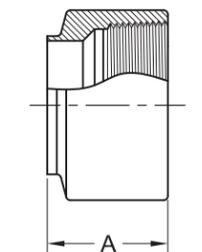
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1/2"	1.625	--	W619WB-.50
3/4"	1.625	--	W619WB-.75
1"	1.750	W419WB-1	W619WB-1
1-1/2"	1.750	W419WB-15	W619WB-15
2"	1.812	W419WB-2	W619WB-2
2-1/2"	2.312	W419WB-25	W619WB-25
3"	2.500	W419WB-3	W619WB-3
4"	2.562	W419WB-4	W619WB-4
6"	3.000	--	W619WB-6 NEW!



* Machine Finished to 32RA ID

FEMALE NPT X WELD END ADAPTERS - MACHINE FINISH 22WB

TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1/2"	1.250	--	W622WB-.50
3/4"	1.625	--	W622WB-.75
1"	1.750	W422WB-1	W622WB-1
1-1/2"	1.750	W422WB-15	W622WB-15
2"	1.812	W422WB-2	W622WB-2
2-1/2"	2.312	W422WB-25	W622WB-25
3"	2.500	W422WB-3	W622WB-3
4"	2.500	W422WB-4	W622WB-4
6"	3.250	--	W622WB-6 NEW!

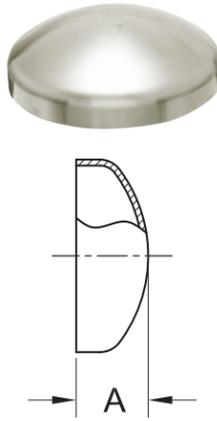


* Machine Finished to 32RA ID

UNPOLISHED FITTINGS

UNPOLISHED DOME CAPS

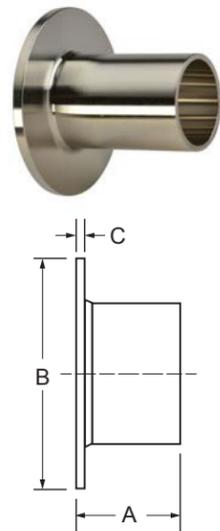
UNPOLISHED DOME CAPS 16W



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1/2"	0.250	N/A	W616W-.50-1
3/4"	0.312	N/A	W616W-.75-1
1"	0.375	W416W-1-1	W616W-1-1
1-1/2"	0.562	W416W-15-1	W616W-15-1
2"	0.750	W416W-2-1	W616W-2-1
2-1/2"	1.000	W416W-25-1	W616W-25-1
3"	1.250	W416W-3-1	W616W-3-1
4"	1.500	W416W-4-1	W616W-4-1
6"	1.875	W416W-6-1	W616W-6-1
8"	2.500	W416W-8-1	W616W-8-1
10"	3.000	W416W-10-1	W616W-10-1
12"	3.000	W416W-12-1	W616W-12-1

STUB ENDS

TYPE A STUB ENDS - MACHINE FINISH 14VB



TUBE O.D.	A	B	C	316L PART NUMBER
1/2"	2.000	1.500	0.130	W614VB-.50
3/4"	2.000	1.500	0.130	W614VB-.75
1"	1.625	2.000	0.130	W614VB-1
1-1/2"	1.750	2.875	0.130	W614VB-15
2"	1.500	3.625	0.130	W614VB-2
2-1/2"	2.000	4.125	0.130	W614VB-25
3"	2.250	5.000	0.166	W614VB-3
4"	2.625	6.187	0.166	W614VB-4
6"	3.000	8.500	0.218	W614VB-6
8"	3.000	10.625	0.232	W614VB-8
10"	3.500	12.750	0.283	W614VB-10
12"	3.000	15.000	0.283	W614VB-12

* Compatible with 38SL Tube Flanges
* Machine Finished to 32RA ID

SLIP-ON TUBE FLANGES - MACHINE FINISH 38SL

TUBE O.D.	A	BOLT HOLE (B)	BOLT CIRCLE (C)	# BOLT HOLES	304 PART NUMBER	316L PART NUMBER
1/2"	3.875	0.625	2.750	4	W438SL-.50	--
3/4"	3.875	0.625	2.750	4	W438SL-.75	--
1"	4.250	0.625	3.125	4	W438SL-1	W638SL-1
1-1/2"	5.000	0.625	3.875	4	W438SL-15	W638SL-15
2"	6.000	0.750	4.750	4	W438SL-2	W638SL-2
2-1/2"	7.000	0.750	5.500	4	W438SL-25	W638SL-25
3"	7.500	0.750	6.000	4	W438SL-3	W638SL-3
4"	9.000	0.750	7.500	8	W438SL-4	W638SL-4
6"	11.000	0.875	9.500	8	W438SL-6	W638SL-6
8"	13.500	0.875	11.750	8	W438SL-8	W638SL-8
10"	16.000	0.984	14.270	12	W438SL-10	W638SL-10
12"	19.000	0.984	17.000	12	W438SL-12	W638SL-12

* 150# Bolt Pattern

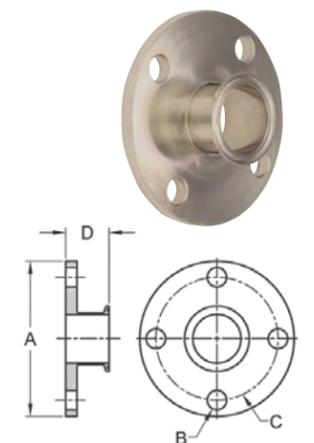
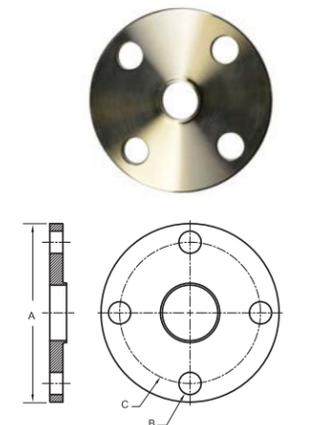
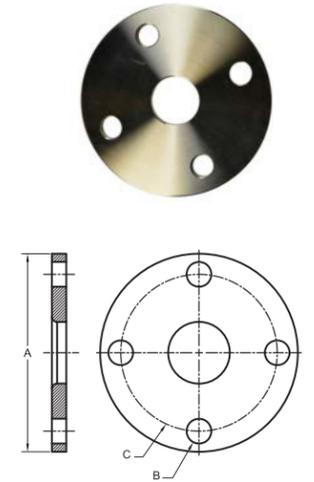
WELD NECK FLANGES - MACHINE FINISH 38W

TUBE O.D.	A	BOLT HOLE (B)	BOLT CIRCLE (C)	# BOLT HOLES	316L PART NUMBER
1"	4.250	0.625	3.125	4	W638W-1
1-1/2"	5.000	0.625	3.875	4	W638W-15
2"	6.000	0.750	4.750	4	W638W-2
2-1/2"	7.000	0.750	5.500	4	W638W-25
3"	7.500	0.750	6.000	4	W638W-3
4"	9.000	0.750	7.500	8	W638W-4
6"	11.000	0.875	9.500	8	W638W-6

FLANGE BY CLAMP ADAPTERS - MACHINE FINISH 38MP NEW!

TUBE O.D.	A	BOLT HOLE (B)	BOLT CIRCLE (C)	D	# BOLT HOLES	316L PART NUMBER
1"	4.250	0.625	3.125	1.625	4	W638MP-1
1-1/2"	5.000	0.625	3.875	1.625	4	W638MP-15
2"	6.000	0.750	4.750	1.750	4	W628MP-2
2-1/2"	7.000	0.750	5.500	1.750	4	W638MP-25
3"	7.500	0.750	6.000	1.750	4	W638MP-3
4"	9.000	0.750	7.500	1.750	8	W638MP-4
6"	11.000	0.875	9.500	2.188	8	W638MP-6

* ANSI DIMENSIONAL



PIPE SIZE CLAMPS

SCHEDULE 5S & 10S SINGLE PIN CLAMPS 13MHV

PIPE SIZE	A	SERVICE PRESSURE RATING @ 70° F*	304 PART NUMBER
1"	2.122	500	W413MHV-1
1-1/2"	2.654	450	W413MHV-15
2"	3.185	400	W413MHV-2
2-1/2"	3.717	350	W413MHV-25
3"	4.263	250	W413MHV-3
4"	5.263	150	W413MHV-4
6"	7.500	100	W413MHV-6
8"	9.400	75	W413MHV-8

* Wing nut tightened to 25 in. lbs. torque

SCHEDULE 5S & 10S HEAVY DUTY BOLTED CLAMPS 13MHPV

PIPE SIZE	A	SERVICE PRESSURE RATING @ 70° F*	304 PART NUMBER
1"	2.046	750	W413MHPV-1
1-1/2"	2.578	500	W413MHPV-15
2"	3.110	500	W413MHPV-2
2-1/2"	3.460	500	W413MHPV-25

* Wing nut tightened to 25 in. lbs. torque

PIPE SIZE FERRULES

SCHEDULE 10S SHORT WELD FERRULES 14WMX

PIPE SIZE	A	B	C	316L PART NUMBER
1"	0.500	1.097	1.315	W614WMX-1
1-1/2"	0.500	1.682	1.900	W614WMX-15
2"	0.500	2.157	2.375	W614WMX-2
2-1/2"	0.500	2.635	2.875	W614WMX-25
3"	0.500	3.260	3.500	W614WMX-3
4"	0.625	4.260	4.500	W614WMX-4
6"	0.875	6.357	6.625	W614WMX-6
8"	0.875	8.329	8.625	W614WMX-8

PIPE SIZE FERRULES

SCHEDULE 10S LONG WELD FERRULES 14AM7X

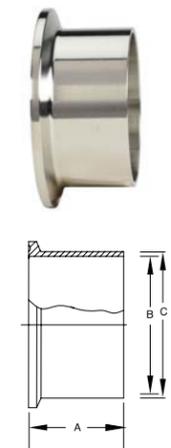
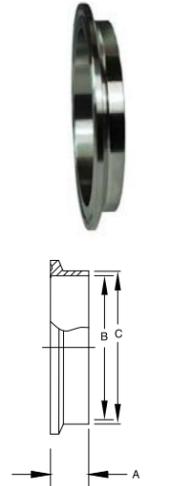
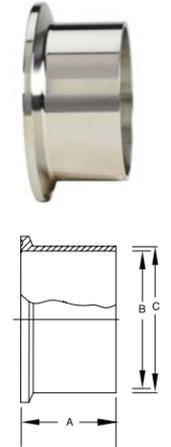
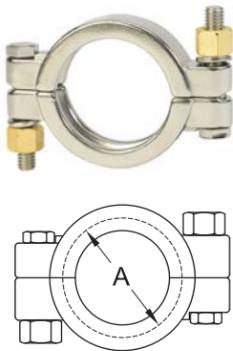
PIPE SIZE	A	B	C	316L PART NUMBER
1"	1.125	1.097	1.315	W614AM7X-1
1-1/2"	1.125	1.682	1.900	W614AM7X-15
2"	1.125	2.157	2.375	W614AM7X-2
2-1/2"	1.125	2.635	2.875	W614AM7X-25
3"	1.125	3.260	3.500	W614AM7X-3
4"	1.125	4.260	4.500	W614AM7X-4

SCHEDULE 5S SHORT WELD FERRULES 14WMV

PIPE SIZE	A	B	C	316L PART NUMBER
1"	0.500	1.185	1.315	W614WMV-1
1-1/2"	0.500	1.770	1.900	W614WMV-15
2"	0.500	2.245	2.375	W614WMV-2
2-1/2"	0.500	2.709	2.875	W614WMV-25
3"	0.500	3.334	3.500	W614WMV-3
4"	0.625	4.334	4.500	W614WMV-4
6"	0.875	6.407	6.625	W614WMV-6
8"	0.875	8.407	8.625	W614WMV-8

SCHEDULE 5S LONG WELD FERRULES 14AM7V

PIPE SIZE	A	B	C	316L PART NUMBER
1"	1.125	1.185	1.315	W614AM7V-1
1-1/2"	1.125	1.770	1.900	W614AM7V-15
2"	1.125	2.245	2.375	W614AM7V-2
2-1/2"	1.125	2.709	2.875	W614AM7V-25
3"	1.125	3.334	3.500	W614AM7V-3
4"	1.125	4.334	4.500	W614AM7V-4
6"	1.500	6.407	6.625	W614AM7V-6



PIPE SIZE FERRULES

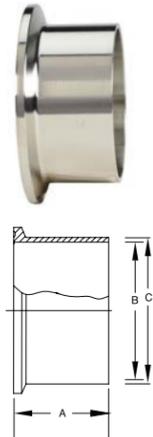
SCHEDULE 40S SHORT WELD FERRULES 14WMZ

PIPE SIZE	A	B	C	316L PART NUMBER
1"	0.500	1.050	1.315	W614WMZ-1
1-1/2"	0.500	1.610	1.900	W614WMZ-15
2"	0.500	2.067	2.375	W614WMZ-2
2-1/2"	0.500	2.470	2.875	W614WMZ-25
3"	0.500	3.068	3.500	W614WMZ-3
4"	0.625	4.026	4.500	W614WMZ-4



SCHEDULE 40S LONG WELD FERRULES 14AM7Z

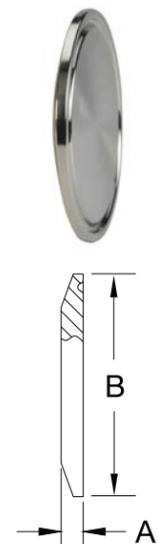
PIPE SIZE	A	B	C	316L PART NUMBER
1"	1.125	1.050	1.315	W614AM7Z-1
1-1/2"	1.125	1.610	1.900	W614AM7Z-15
2"	1.125	2.067	2.375	W614AM7Z-2
2-1/2"	1.125	2.470	2.875	W614AM7Z-25
3"	1.125	3.068	3.500	W614AM7Z-3
4"	1.125	4.026	4.500	W614AM7Z-4



PIPE SIZE CAPS

SCHEDULE 5S SOLID END CAPS 16AMV

PIPE SIZE	A	B	316L PART NUMBER
1"	0.250	1.984	W616AMV-1
1-1/2"	0.250	2.516	W616AMV-15
2"	0.250	3.047	W616AMV-2
2-1/2"	0.250	3.579	W616AMV-25
3"	0.313	4.125	W616AMV-3
4"	0.313	5.125	W616AMV-4
6"	0.437	7.195	W616AMV-6
8"	0.437	9.200	W616AMV-8

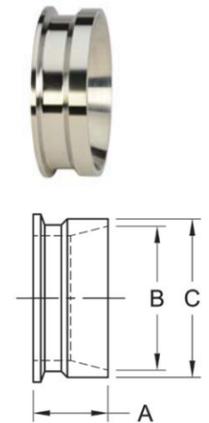


PIPE SIZE ADAPTERS

CLAMP X SCHEDULE 5S WELD ADAPTERS 19MPV



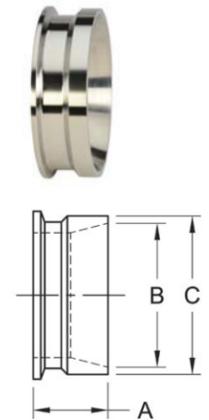
PIPE SIZE	A	B	C	304 PART NUMBER
1/2"	1.125	0.710	0.840	W419MPV-.50
3/4"	1.125	0.920	1.050	W419MPV-.75
1"	1.125	1.185	1.315	W419MPV-1
1-1/2"	1.125	1.770	1.900	W419MPV-15
2"	1.125	2.245	2.375	W419MPV-2
2-1/2"	1.125	2.709	2.875	W419MPV-25
3"	1.125	3.334	3.500	W419MPV-3
4"	1.125	4.334	4.500	W419MPV-4



CLAMP X SCHEDULE 10S WELD ADAPTERS 19MPX

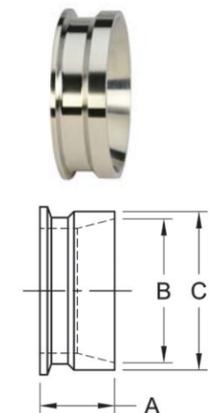


PIPE SIZE	A	B	C	316L PART NUMBER
1/2"	1.500	0.674	0.840	W619MPX-.50
3/4"	1.500	0.884	1.050	W619MPX-.75
1"	1.125	1.097	1.315	W619MPX-1
1-1/2"	1.125	1.682	1.900	W619MPX-15
2"	1.125	2.157	2.375	W619MPX-2
2-1/2"	1.125	2.635	2.875	W619MPX-25
3"	1.125	3.260	3.500	W619MPX-3
4"	1.125	4.260	4.500	W619MPX-4



CLAMP X SCHEDULE 40S WELD ADAPTERS 19MPXLI

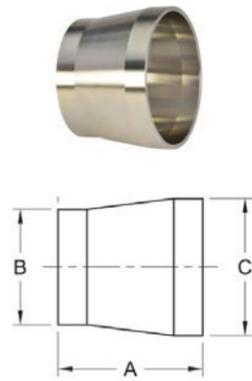
PIPE SIZE	A	B	C	316L PART NUMBER
1"	1.125	1.049	1.315	W619MPXLI-1
1-1/2"	1.125	1.610	1.900	W619MPXLI-15
2"	1.125	2.067	2.375	W619MPXLI-2
3"	1.125	3.068	3.500	W619MPXLI-3
4"	1.125	4.026	4.500	W619MPXLI-4



PIPE SIZE ADAPTERS

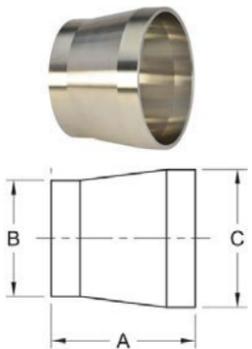
TUBE OD WELD X SCHEDULE 10S WELD ADAPTERS 19WX

PIPE SIZE	A	B	C	316L PART NUMBER
1/2"	1.500	0.500	0.840	W619WX-.50
3/4"	2.00	0.750	1.050	W619WX-.75
1"	2.00	1.000	1.315	W619WX-1
1-1/2"	2.500	1.500	1.900	W619WX-15
2"	2.500	2.000	2.375	W619WX-2
2-1/2"	2.500	2.500	2.875	W619WX-25
3"	2.500	3.000	3.500	W619WX-3
4"	3.000	4.000	4.500	W619WX-4
6"	3.000	6.000	6.620	W619WX-6



TUBE OD WELD X SCHEDULE 40S WELD ADAPTERS 19WXL

PIPE SIZE	A	B	C	316L PART NUMBER
1-1/2"	2.000	1.500	1.900	W619WXL-15
2"	2.500	2.000	2.375	W619WXL-2
3"	3.000	3.000	3.500	W619WXL-3
4"	3.000	4.000	4.500	W619WXL-4



PIPE SIZE GASKETS

PIPE SIZE GASKETS 40MV

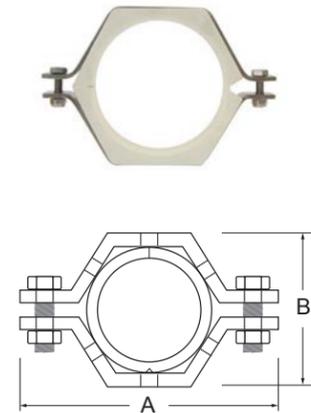
PIPE SIZE	GASKET O.D.	GASKET I.D.	PTFE	BUNA
1"	1.980	1.100	40MVG-1	40MVU-1
1-1/2"	2.520	1.680	40MVG-15	40MVU-15
2"	3.050	2.160	40MVG-2	40MVU-2
2-1/2"	3.580	2.640	40MVG-25	40MVU-25
3"	4.130	3.260	40MVG-3	40MVU-3
4"	5.130	4.260	40MVG-4	40MVU-4
6"	7.200	6.350	40MVG-6	40MVU-6

PIPE SIZE HANGERS

HEX PIPE HANGERS WITH PVC SLEEVE 24PV

PIPE SIZE	A	B	PART NUMBER
1/2"	3.380	1.630	W424PV-.50
3/4"	3.380	1.630	W424PV-.75
1"	3.750	1.880	W424PV-1
1-1/2"	4.440	2.630	W424PV-15
2"	4.940	3.130	W424PV-2
2-1/2"	5.560	3.780	W424PV-25
3"	6.063	4.250	W424PV-3
4"	7.500	5.180	W424PV-4
6"	9.880	7.380	W424PV-6
8"	11.380	9.380	W424PV-8
10"	15.380	11.500	W424PV-10
12"	17.500	13.880	W424PV-12

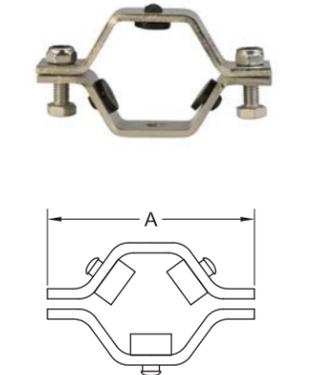
Temperature Range: 5°F to 175°F
 1/2" through 4" sizes have hex style inserts
 Sizes 6" and up have circular inserts



HEX PIPE HANGERS WITH GROMMETS 24RV

PIPE SIZE	A	PART NUMBER
1/2"	3.380	W424RV-.50
3/4"	3.380	W424RV-.75
1"	3.750	W424RV-1
1-1/4"	3.750	W424RV-1.25
1-1/2"	4.440	W424RV-15
2"	4.940	W424RV-2
2-1/2"	5.560	W424RV-25
3"	6.060	W424RV-3
4"	7.500	W424RV-4
5"	8.500	W424RV-5
6"	9.880	W424RV-6
8"	11.380	W424RV-8
10"	15.380	W424RV-10
12"	17.500	W424RV-12

- Offered in both Alcryn and Viton Rubber Grommets.
- Alcryn Temp Range: 40°F to 257°F, 3/4" diameter with 5/16" pin
- Viton Temp Range: 73°F to 392°F, 3/4" diameter with 5/16" pin



BEVEL SEAT NUTS

UNION HEX NUTS 13H

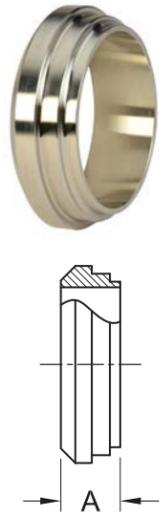


TUBE O.D.	A	B	304 PART NUMBER
1"	1.812	0.906	W413H-1
1-1/2"	2.406	0.968	W413H-15
2"	3.000	1.062	W413H-2
2-1/2"	3.594	1.187	W413H-25
3"	4.188	1.281	W413H-3
4"	5.438	1.500	W413H-4

* Hex Nut 400 PSI Maximum

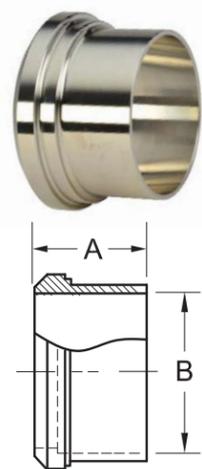
BEVEL SEAT FERRULES

SHORT PLAIN BEVEL SEAT WELD FERRULES 14PRF



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	0.718	W414PRF-1	W614PRF-1
1-1/2"	0.718	W414PRF-15	W614PRF-15
2"	0.750	W414PRF-2	W614PRF-2
2-1/2"	0.875	W414PRF-25	W614PRF-25
3"	0.906	W414PRF-3	W614PRF-3
4"	1.031	W414PRF-4	W614PRF-4

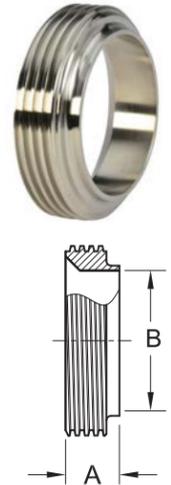
LONG PLAIN BEVEL SEAT FERRULES 14A



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.375	0.870	W414A-1	W614A-1
1-1/2"	1.500	1.370	W414A-15	W614A-15
2"	1.500	1.870	W414A-2	W614A-2
2-1/2"	1.750	2.370	W414A-25	W614A-25
3"	1.750	2.870	W414A-3	W614A-3
4"	1.750	3.834	W414A-4	W614A-4

BEVEL SEAT FERRULES

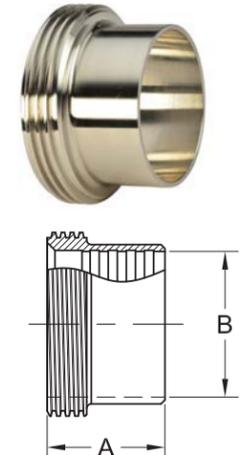
SHORT THREADED BEVEL SEAT FERRULES 15TRF



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	.718	0.870	W415TRF-1	W615TRF-1
1-1/2"	.718	1.370	W415TRF-15	W615TRF-15
2"	.750	1.870	W415TRF-2	W615TRF-2
2-1/2"	.875	2.370	W415TRF-25	W615TRF-25
3"	.906	2.870	W415TRF-3	W615TRF-3
4"	1.031	3.834	W415TRF-4	W615TRF-4

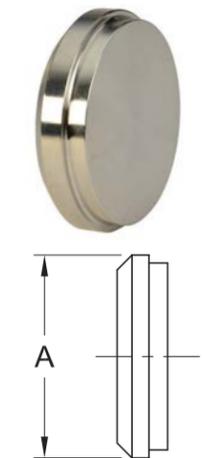
LONG THREADED BEVEL SEAT FERRULES 15A

TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.375	0.870	W415A-1	W615A-1
1-1/2"	1.500	1.370	W415A-15	W615A-15
2"	1.500	1.870	W415A-2	W615A-2
2-1/2"	1.750	2.370	W415A-25	W615A-25
3"	1.750	2.870	W415A-3	W615A-3
4"	1.750	3.834	W415A-4	W615A-4



BEVEL SEAT END CAPS

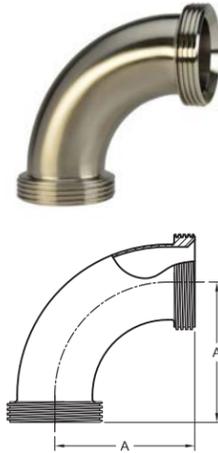
PLAIN BEVEL SEAT SOLID END CAPS 16A



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.312	W416A-1	W616A-1
1-1/2"	1.843	W416A-15	W616A-15
2"	2.375	W416A-2	W616A-2
2-1/2"	2.906	W416A-25	W616A-25
3"	3.437	W416A-3	W616A-3
4"	4.500	W416A-4	W616A-4

BEVEL SEAT ELBOWS

THREADED BEVEL SEAT X
THREADED BEVEL SEAT 90° ELBOWS 2C



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	2.218	W42C-1	W62C-1
1-1/2"	2.968	W42C-15	W62C-15
2"	3.750	W42C-2	W62C-2
2-1/2"	4.625	W42C-25	W62C-25
3"	5.406	W42C-3	W62C-3
4"	7.031	W42C-4	W62C-4

THREADED BEVEL SEAT X
THREADED BEVEL SEAT 45° ELBOWS 2K



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.343	W42K-1	W62K-1
1-1/2"	1.655	W42K-15	W62K-15
2"	2.000	W42K-2	W62K-2
2-1/2"	2.437	W42K-25	W62K-25
3"	2.781	W42K-3	W62K-3
4"	3.531	W42K-4	W62K-4

THREADED BEVEL SEAT X PLAIN
BEVEL SEAT WITH HEX NUT 90° ELBOWS 2F



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	2.218	W42F-1	W62F-1
1-1/2"	2.968	W42F-15	W62F-15
2"	3.750	W42F-2	W62F-2
2-1/2"	4.625	W42F-25	W62F-25
3"	5.406	W42F-3	W62F-3
4"	7.031	W42F-4	W62F-4

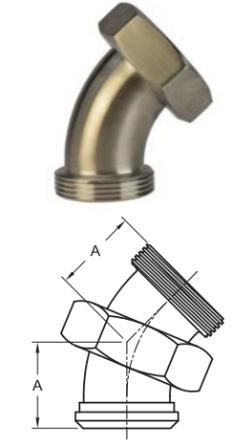
BEVEL SEAT ELBOWS

PLAIN BEVEL SEAT WITH HEX NUT X PLAIN
BEVEL SEAT WITH HEX NUT 90° ELBOWS 2E



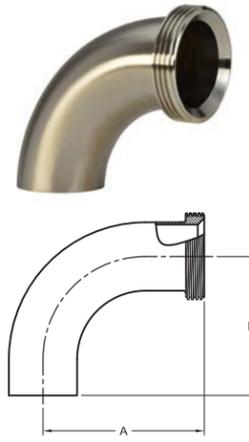
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	2.218	W42E-1	W62E-1
1-1/2"	2.968	W42E-15	W62E-15
2"	3.750	W42E-2	W62E-2
2-1/2"	4.625	W42E-25	W62E-25
3"	5.406	W42E-3	W62E-3
4"	7.031	W42E-4	W62E-4

PLAIN BEVEL SEAT WITH HEX NUT X
THREADED BEVEL SEAT 45° ELBOWS 2P



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.343	W42P-1	W62P-1
1-1/2"	1.655	W42P-15	W62P-15
2"	2.000	W42P-2	W62P-2
2-1/2"	2.437	W42P-25	W62P-25
3"	2.781	W42P-3	W62P-3
4"	3.531	W42P-4	W62P-4

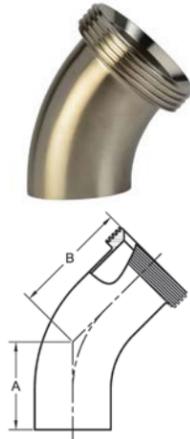
POLISHED 90° THREADED BEVEL SEAT X WELD ELBOWS 2T



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	2.780	2.062	W42T-1	W62T-1
1-1/2"	3.656	2.937	W42T-15	W62T-15
2"	4.812	4.062	W42T-2	W62T-2
2-1/2"	6.062	5.187	W42T-25	W62T-25
3"	7.218	6.312	W42T-3	W62T-3
4"	9.343	8.312	W42T-4	W62T-4

BEVEL SEAT ELBOWS

45° WELD X THREADED BEVEL SEAT ELBOWS 2KT



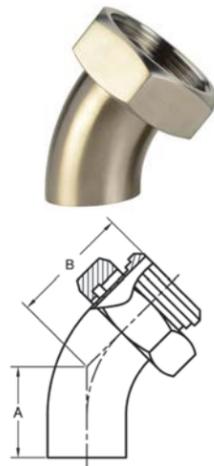
TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.188	1.906	W42KT-1	W62KT-1
1-1/2"	1.625	2.343	W42KT-15	W62KT-15
2"	2.312	3.062	W42KT-2	W62KT-2
2-1/2"	3.000	3.875	W42KT-25	W62KT-25
3"	3.688	4.594	W42KT-3	W62KT-3
4"	4.812	5.843	W42KT-4	W62KT-4

90° WELD X PLAIN BEVEL SEAT ELBOWS WITH HEX NUT L2F



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	2.843	2.062	W4L2F-1	W6L2F-1
1-1/2"	3.656	2.937	W4L2F-15	W6L2F-15
2"	4.812	4.062	W4L2F-2	W6L2F-2
2-1/2"	6.062	5.187	W4L2F-25	W6L2F-25
3"	7.218	6.312	W4L2F-3	W6L2F-3
4"	9.343	8.312	W4L2F-4	W6L2F-4

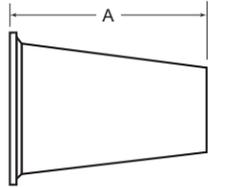
45° WELD X PLAIN BEVEL SEAT ELBOWS WITH HEX NUT 2KP



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.188	1.906	W42KP-1	W62KP-1
1-1/2"	1.625	2.343	W42KP-15	W62KP-15
2"	2.312	3.062	W42KP-2	W62KP-2
2-1/2"	3.000	3.875	W42KP-25	W62KP-25
3"	3.688	4.594	W42KP-3	W62KP-3
4"	4.812	5.843	W42KP-4	W62KP-4

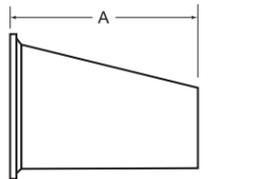
BEVEL SEAT REDUCERS

THREADED BEVEL SEAT X WELD CONCENTRIC REDUCERS 31T



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	2.718	W431T-15X1	W631T-15X1
2" X 1"	4.750	W431T-2X1	W631T-2X1
2" X 1-1/2"	2.750	W431T-2X15	W631T-2X15
2-1/2" X 1-1/2"	4.875	W431T-25X15	W631T-25X15
2-1/2" X 2"	2.875	W431T-25X2	W631T-25X2
3" X 1-1/2"	6.906	W431T-3X15	W631T-3X15
3" X 2"	4.906	W431T-3X2	W631T-3X2
3" X 2-1/2"	2.906	W431T-3X25	W631T-3X25
4" X 1-1/2"	11.030	W431T-4X15	W631T-4X15
4" X 2"	9.031	W431T-4X2	W631T-4X2
4" X 2-1/2"	7.031	W431T-4X25	W631T-4X25
4" X 3"	5.031	W431T-4X3	W631T-4X3

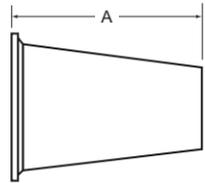
THREADED BEVEL SEAT X WELD ECCENTRIC REDUCERS 32T



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	2.718	W432T-15X1	W632T-15X1
2" X 1"	4.750	W432T-2X1	W632T-2X1
2" X 1-1/2"	2.750	W432T-2X15	W632T-2X15
2-1/2" X 1-1/2"	4.875	W432T-25X15	W632T-25X15
2-1/2" X 2"	2.875	W432T-25X2	W632T-25X2
3" X 1-1/2"	6.906	W432T-3X15	W632T-3X15
3" X 2"	4.906	W432T-3X2	W632T-3X2
3" X 2-1/2"	2.906	W432T-3X25	W632T-3X25
4" X 1-1/2"	11.030	W432T-4X15	W632T-4X15
4" X 2"	9.031	W432T-4X2	W632T-4X2
4" X 2-1/2"	7.031	W432T-4X25	W632T-4X25
4" X 3"	5.031	W432T-4X3	W632T-4X3

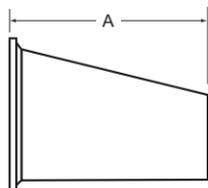
BEVEL SEAT REDUCERS

PLAIN BEVEL SEAT X WELD CONCENTRIC REDUCERS 31P



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	2.718	W431P-15X1	W631P-15X1
2" X 1"	4.750	W431P-2X1	W631P-2X1
2" X 1-1/2"	2.750	W431P-2X15	W631P-2X15
2-1/2" X 1-1/2"	4.875	W431P-25X15	W631P-25X15
2-1/2" X 2"	2.875	W431P-25X2	W631P-25X2
3" X 1-1/2"	6.906	W431P-3X15	W631P-3X15
3" X 2"	4.906	W431P-3X2	W631P-3X2
3" X 2-1/2"	2.906	W431P-3X25	W631P-3X25
4" X 1-1/2"	11.030	W431P-4X15	W631P-4X15
4" X 2"	9.031	W431P-4X2	W631P-4X2
4" X 2-1/2"	7.031	W431P-4X25	W631P-4X25
4" X 3"	5.031	W431P-4X3	W631P-4X3

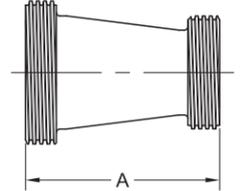
PLAIN BEVEL SEAT X WELD ECCENTRIC REDUCERS 32P



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	2.718	W432P-15X1	W632P-15X1
2" X 1"	4.750	W432P-2X1	W632P-2X1
2" X 1-1/2"	2.750	W432P-2X15	W632P-2X15
2-1/2" X 1-1/2"	4.875	W432P-25X15	W632P-25X15
2-1/2" X 2"	2.875	W432P-25X2	W632P-25X2
3" X 1-1/2"	6.906	W432P-3X15	W632P-3X15
3" X 2"	4.906	W432P-3X2	W632P-3X2
3" X 2-1/2"	2.906	W432P-3X25	W632P-3X25
4" X 1-1/2"	11.030	W432P-4X15	W632P-4X15
4" X 2"	9.031	W432P-4X2	W632P-4X2
4" X 2-1/2"	7.031	W432P-4X25	W632P-4X25
4" X 3"	5.031	W432P-4X3	W632P-4X3

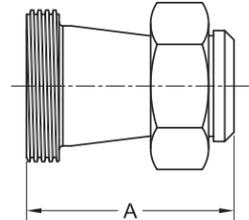
BEVEL SEAT REDUCERS

THREADED BEVEL SEAT X THREADED BEVEL SEAT CONCENTRIC REDUCERS 31TT



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.438	W431TT-15X1	W631TT-15X1
2" X 1-1/2"	3.468	W431TT-2X15	W631TT-2X15
2-1/2" X 2"	3.625	W431TT-25X2	W631TT-25X2
3" X 2"	5.656	W431TT-3X2	W631TT-3X2
3" X 2-1/2"	3.781	W431TT-3X25	W631TT-3X25
4" X 3"	5.937	W431TT-4X3	W631TT-4X3

THREADED BEVEL SEAT X PLAIN BEVEL W/ HEX NUT CONCENTRIC REDUCERS 31TP

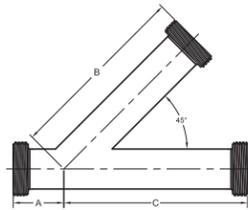


TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.438	W431TP-15X1	W631TP-15X1
2" X 1-1/2"	3.468	W431TP-2X15	W631TP-2X15
2-1/2" X 2"	3.625	W431TP-25X2	W631TP-25X2
3" X 2"	5.656	W431TP-3X2	W631TP-3X2
3" X 2-1/2"	3.781	W431TP-3X25	W631TP-3X25
4" X 3"	5.937	W431TP-4X3	W631TP-4X3

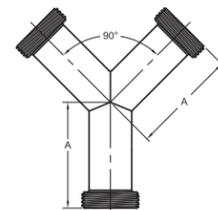
MISCELLANEOUS BEVEL SEAT CONFIGURATIONS



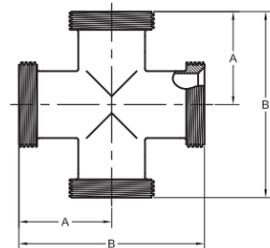
Other types of bevel seat configurations are available.
Call 888-798-2653 for information.



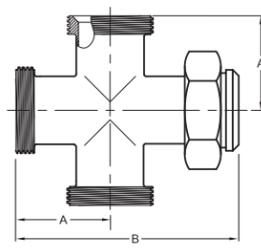
28A
THREADED LATERAL WYE



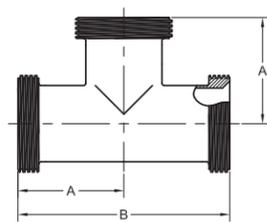
28B
THREADED TRUE WYE



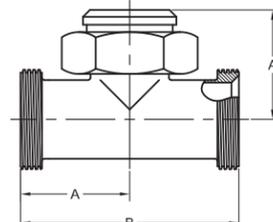
9
THREAD ENDS EQUAL CROSS



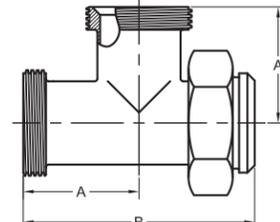
9A
THREAD (3 ENDS) X PLAIN
BEVEL SEAT WITH NUT



7
THREADED ENDS
EQUAL TEE

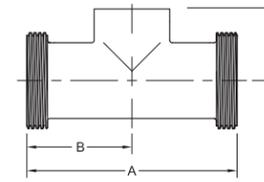


7A
THREAD X THREAD X
PLAIN OUTLET EQUAL TEE

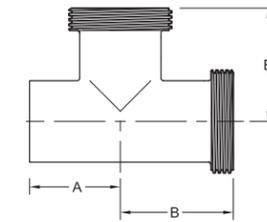


7B
THREAD X PLAIN X
THREAD OUTLET
EQUAL TEE

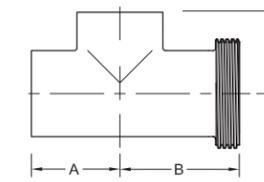
MISCELLANEOUS WELD BY BEVEL SEAT TEE CONFIGURATIONS



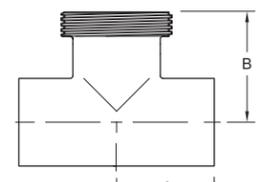
7TTW
THREAD RUN BY WELD BRANCH



7WTT
WELD BY THREAD RUN BY
THREAD BRANCH



7WTW
WELD BY THREAD RUN
BY WELD BRANCH



7WWT
WELD RUN
BY THREAD BRANCH

BEVEL SEAT GASKETS

BEVEL SEAT GASKETS **40BS**

SIZE	GASKET O.D.	GASKET I.D.	EPDM	PTFE	FKM	BUNA	SILICONE
1"	1.312	.870	40BS-E-1	40BS-T-1	40BS-V-1	40BS-B-1	40BS-X-1
1-1/2"	1.848	1.370	40BS-E-15	40BS-T-15	40BS-V-15	40BS-B-15	40BS-X-15
2"	2.380	1.870	40BS-E-2	40BS-T-2	40BS-V-2	40BS-B-2	40BS-X-2
2-1/2"	2.912	2.370	40BS-E-25	40BS-T-25	40BS-V-25	40BS-B-25	40BS-X-25
3"	3.444	2.870	40BS-E-3	40BS-T-3	40BS-V-3	40BS-B-3	40BS-X-3
4"	4.508	3.832	40BS-E-4	40BS-T-4	40BS-V-4	40BS-B-4	40BS-X-4

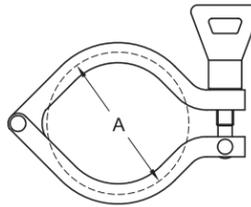


BEVEL SEAT FITTINGS

BEVEL SEAT FITTINGS

I-LINE CLAMPS

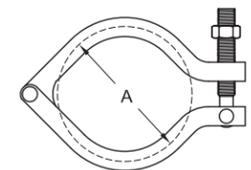
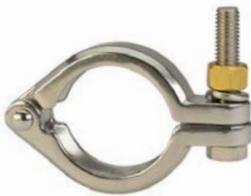
WING NUT I-LINE CLAMPS 13IS



TUBE O.D.	SERVICE PRESSURE RATING @ 70° F*	SERVICE PRESSURE RATING @ 250° F*	A	304 PART NUMBER
1" & 1-1/2"	700 PSI	250 PSI	2.122	W413IS-1/15
2"	450 PSI	250 PSI	2.654	W413IS-2
2-1/2"	450 PSI	200 PSI	3.185	W413IS-25
3"	350 PSI	150 PSI	3.717	W413IS-3
4"	200 PSI	125 PSI	4.820	W413IS-4
6"	150 PSI	100 PSI	7.689	W413IS-6
8"	125 PSI	75 PSI	9.689	W413IS-8

* Wing nut tightened to 25 in. lb. of torque

BOLTED I-LINE CLAMPS 13I



TUBE O.D.	SERVICE PRESSURE RATING @ 70° F*	SERVICE PRESSURE RATING @ 250° F*	A	304 PART NUMBER
1" & 1-1/2"	1220 PSI	1100 PSI	2.122	W413I-1/15
2"	900 PSI	830 PSI	2.654	W413I-2
2-1/2"	720 PSI	660 PSI	3.185	W413I-25
3"	600 PSI	550 PSI	3.717	W413I-3
4"	570 PSI	525 PSI	4.820	W413I-4
6"	300 PSI	200 PSI	7.689	W413I-6
8"	250 PSI	150 PSI	9.689	W413I-8

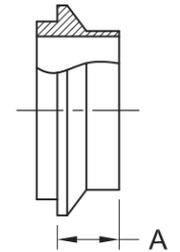
* Nut tightened to 20 in. ft. of torque

I-LINE FERRULES

MALE I-LINE SHORT WELD FERRULES 14WI



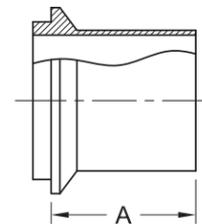
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	0.600	W414WI-1	W614WI-1
1-1/2"	0.765	W414WI-15	W614WI-15
2"	0.790	W414WI-2	W614WI-2
2-1/2"	0.848	W414WI-25	W614WI-25
3"	0.906	W414WI-3	W614WI-3
4"	1.031	W414WI-4	W614WI-4
6"	0.937	--	W614WI-6
8"	0.937	--	W614WI-8



MALE I-LINE LONG WELD FERRULES 14WLI

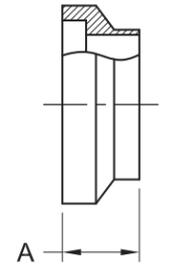


TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.562	W414WLI-1	W614WLI-1
1-1/2"	1.843	W414WLI-15	W614WLI-15
2"	2.062	W414WLI-2	W614WLI-2
2-1/2"	2.188	W414WLI-25	W614WLI-25
3"	2.375	W414WLI-3	W614WLI-3
4"	2.688	W414WLI-4	W614WLI-4
6"	2.880	--	W614WLI-6



I-LINE FERRULES

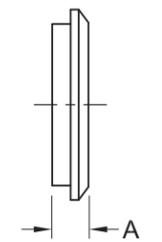
FEMALE I-LINE SHORT WELD FERRULES 15WI



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	0.786	W415WI-1	W615WI-1
1-1/2"	0.950	W415WI-15	W615WI-15
2"	1.036	W415WI-2	W615WI-2
2-1/2"	1.161	W415WI-25	W615WI-25
3"	1.223	W415WI-3	W615WI-3
4"	1.348	W415WI-4	W615WI-4
6"	1.125	--	W615WI-6
8"	1.130	--	W615WI-8

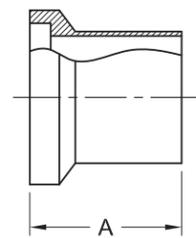
I-LINE END CAPS

MALE I-LINE SOLID END CAPS 16AI-14I



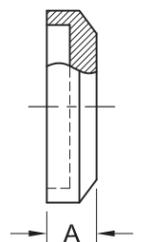
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	0.500	W416AI-14I-1	W616AI-14I-1
1-1/2"	0.500	W416AI-14I-15	W616AI-14I-15
2"	0.687	W416AI-14I-2	W616AI-14I-2
2-1/2"	0.687	W416AI-14I-25	W616AI-14I-25
3"	0.750	W416AI-14I-3	W616AI-14I-3
4"	0.750	W416AI-14I-4	W616AI-14I-4
6"	0.750	W416AI-14I-6	W616AI-14I-6

FEMALE I-LINE LONG WELD FERRULES 15WLI



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.750	W415WLI-1	W615WLI-1
1-1/2"	2.031	W415WLI-15	W615WLI-15
2"	2.312	W415WLI-2	W615WLI-2
2-1/2"	2.500	W415WLI-25	W615WLI-25
3"	2.688	W415WLI-3	W615WLI-3
4"	3.000	W415WLI-4	W615WLI-4
6"	3.000	--	W615WLI-6

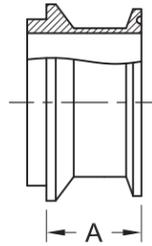
FEMALE I-LINE SOLID END CAPS 16AI-15I



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	0.500	W416AI-15I-1	W616AI-15I-1
1-1/2"	0.500	W416AI-15I-15	W616AI-15I-15
2"	0.687	W416AI-15I-2	W616AI-15I-2
2-1/2"	0.750	W416AI-15I-25	W616AI-15I-25
3"	0.750	W416AI-15I-3	W616AI-15I-3
4"	0.750	W416AI-15I-4	W616AI-15I-4
6"	0.750	W416AI-15I-6	W616AI-15I-6

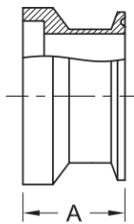
I-LINE ADAPTERS

MALE I-LINE X CLAMP ADAPTERS 17-14I-14MP



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.093	W417-14I-14MP-1	W617-14I-14MP-1
1-1/2"	1.265	W417-14I-14MP-15	W617-14I-14MP-15
2"	1.290	W417-14I-14MP-2	W617-14I-14MP-2
2-1/2"	1.312	W417-14I-14MP-25	W617-14I-14MP-25
3"	1.406	W417-14I-14MP-3	W617-14I-14MP-3
4"	1.656	W417-14I-14MP-4	W617-14I-14MP-4

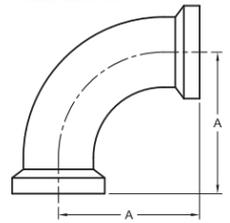
FEMALE I-LINE X CLAMP ADAPTERS 17-15I-14MP



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.281	W417-15I-14MP-1	W617-15I-14MP-1
1-1/2"	1.450	W417-15I-14MP-15	W617-15I-14MP-15
2"	1.540	W417-15I-14MP-2	W617-15I-14MP-2
2-1/2"	1.625	W417-15I-14MP-25	W617-15I-14MP-25
3"	1.718	W417-15I-14MP-3	W617-15I-14MP-3
4"	1.968	W417-15I-14MP-4	W617-15I-14MP-4

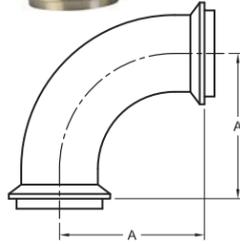
I-LINE ELBOWS

90° FEMALE I-LINE ELBOWS 2CI



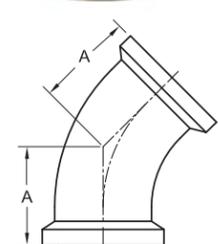
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	2.281	W42CI-1	W62CI-1
1-1/2"	3.188	W42CI-15	W62CI-15
2"	4.031	W42CI-2	W62CI-2
2-1/2"	4.906	W42CI-25	W62CI-25
3"	5.718	W42CI-3	W62CI-3
4"	7.344	W42CI-4	W62CI-4
6"	10.130	W42CI-6	W62CI-6
8"	13.130	W42CI-8	W62CI-8

90° MALE I-LINE ELBOWS 2EI



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	2.093	W42EI-1	W62EI-1
1-1/2"	3.000	W42EI-15	W62EI-15
2"	3.781	W42EI-2	W62EI-2
2-1/2"	4.593	W42EI-25	W62EI-25
3"	5.406	W42EI-3	W62EI-3
4"	7.031	W42EI-4	W62EI-4
6"	9.940	W42EI-6	W62EI-6
8"	12.940	W42EI-8	W62EI-8

45° FEMALE I-LINE ELBOWS 2KI



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.406	W42KI-1	W62KI-1
1-1/2"	1.888	W42KI-15	W62KI-15
2"	2.281	W42KI-2	W62KI-2
2-1/2"	2.718	W42KI-25	W62KI-25
3"	3.093	W42KI-3	W62KI-3
4"	3.844	W42KI-4	W62KI-4
6"	4.875	W42KI-6	W62KI-6
8"	6.125	W42KI-8	W62KI-8

I-LINE ELBOWS

45° MALE I-LINE ELBOWS 2HI



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.406	W42HI-1	W62HI-1
1-1/2"	1.888	W42HI-15	W62HI-15
2"	2.281	W42HI-2	W62HI-2
2-1/2"	2.718	W42HI-25	W62HI-25
3"	3.093	W42HI-3	W62HI-3
4"	3.844	W42HI-4	W62HI-4
6"	4.875	W42HI-6	W62HI-6
8"	6.125	W42HI-8	W62HI-8

FEMALE I-LINE X MALE I-LINE 90° ELBOWS 2FI



TUBE O.D.	A	B	R	304 PART NUMBER	316L PART NUMBER
1"	2.281	2.093	1.500	W42FI-1	W62FI-1
1-1/2"	3.188	3.000	2.250	W42FI-15	W62FI-15
2"	4.031	3.781	3.000	W42FI-2	W62FI-2
2-1/2"	4.906	4.593	3.750	W42FI-25	W62FI-25
3"	5.718	5.406	4.500	W42FI-3	W62FI-3
4"	7.344	7.031	6.000	W42FI-4	W62FI-4
6"	10.130	9.940	9.000	W42FI-6	W62FI-6
8"	13.130	12.940	12.000	W42FI-8	W62FI-8

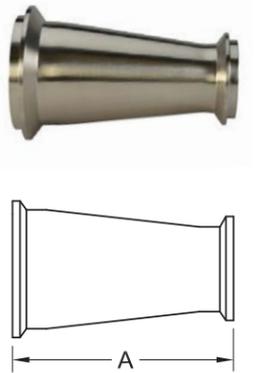
FEMALE I-LINE X MALE I-LINE 45° ELBOWS 2PI



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.406	1.225	W42PI-1	W62PI-1
1-1/2"	1.888	1.702	W42PI-15	W62PI-15
2"	2.281	2.040	W42PI-2	W62PI-2
2-1/2"	2.718	2.410	W42PI-25	W62PI-25
3"	3.093	2.781	W42PI-3	W62PI-3
4"	3.844	3.351	W42PI-4	W62PI-4
6"	4.875	4.690	W42PI-6	W62PI-6
8"	6.125	5.940	W42PI-8	W62PI-8

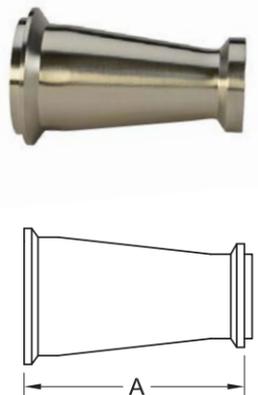
I-LINE REDUCERS

MALE X MALE I-LINE CONCENTRIC REDUCERS 3114I-14I



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.365	W43114I-14I-15X1	W63114I-14I-15X1
2" X 1"	5.390	W43114I-14I-2X1	W63114I-14I-2X1
2" X 1-1/2"	3.555	W43114I-14I-2X15	W63114I-14I-2X15
2-1/2" X 1-1/2"	5.613	W43114I-14I-25X15	W63114I-14I-25X15
2-1/2" X 2"	3.638	W43114I-14I-25X2	W63114I-14I-25X2
3" X 1-1/2"	7.665	W43114I-14I-3X15	W63114I-14I-3X15
3" X 2"	5.690	W43114I-14I-3X2	W63114I-14I-3X2
3" X 2-1/2"	3.745	W43114I-14I-3X25	W63114I-14I-3X25
4" X 2"	9.828	W43114I-14I-4X2	W63114I-14I-4X2
4" X 2-1/2"	7.886	W43114I-14I-4X25	W63114I-14I-4X25
4" X 3"	5.938	W43114I-14I-4X3	W63114I-14I-4X3
6" X 3"	7.348	W43114I-14I-6X3	W63114I-14I-6X3
6" X 4"	7.478	W43114I-14I-6X4	W63114I-14I-6X4

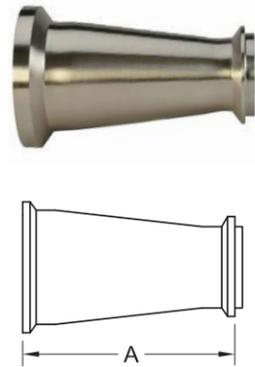
MALE X FEMALE I-LINE CONCENTRIC REDUCERS 3114I-15I



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.550	W43114I-15I-15X1	W63114I-15I-15X1
2" X 1"	5.640	W43114I-15I-2X1	W63114I-15I-2X1
2" X 1-1/2"	3.805	W43114I-15I-2X15	W63114I-15I-2X15
2-1/2" X 1-1/2"	5.925	W43114I-15I-25X15	W63114I-15I-25X15
2-1/2" X 2"	3.950	W43114I-15I-25X2	W63114I-15I-25X2
3" X 1-1/2"	7.985	W43114I-15I-3X15	W63114I-15I-3X15
3" X 2"	6.010	W43114I-15I-3X2	W63114I-15I-3X2
3" X 2-1/2"	4.068	W43114I-15I-3X25	W63114I-15I-3X25
4" X 2"	10.140	W43114I-15I-4X2	W63114I-15I-4X2
4" X 2-1/2"	8.198	W43114I-15I-4X25	W63114I-15I-4X25
4" X 3"	6.250	W43114I-15I-4X3	W63114I-15I-4X3
6" X 3"	7.535	W43114I-15I-6X3	W63114I-15I-6X3
6" X 4"	4.663	W43114I-15I-6X4	W63114I-15I-6X4

I-LINE REDUCERS

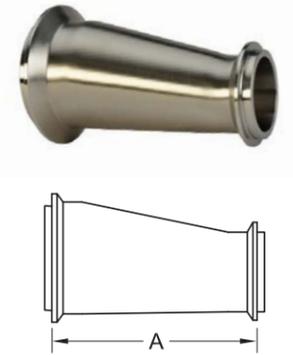
FEMALE X MALE I-LINE CONCENTRIC REDUCERS 3115I-14I



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.550	W43115I-14I-15X1	W63115I-14I-15X1
2" X 1"	5.640	W43115I-14I-2X1	W63115I-14I-2X1
2" X 1-1/2"	3.805	W43115I-14I-2X15	W63115I-14I-2X15
2-1/2" X 1-1/2"	5.925	W43115I-14I-25X15	W63115I-14I-25X15
2-1/2" X 2"	3.950	W43115I-14I-25X2	W63115I-14I-25X2
3" X 1-1/2"	7.985	W43115I-14I-3X15	W63115I-14I-3X15
3" X 2"	6.010	W43115I-14I-3X2	W63115I-14I-3X2
3" X 2-1/2"	4.068	W43115I-14I-3X25	W63115I-14I-3X25
4" X 2"	10.140	W43115I-14I-4X2	W63115I-14I-4X2
4" X 2-1/2"	8.198	W43115I-14I-4X25	W63115I-14I-4X25
4" X 3"	6.250	W43115I-14I-4X3	W63115I-14I-4X3
6" X 3"	7.535	W43115I-14I-6X3	W63115I-14I-6X3
6" X 4"	4.663	W43115I-14I-6X4	W63115I-14I-6X4

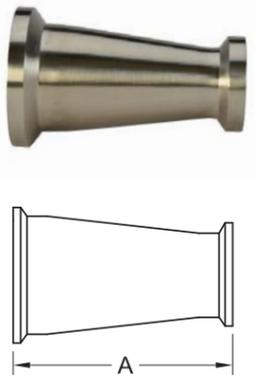
I-LINE REDUCERS

MALE X MALE I-LINE ECCENTRIC REDUCERS 3214I-14I



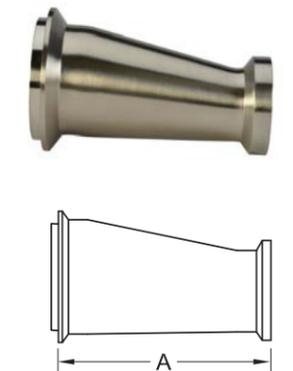
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.365	W43214I-14I-15X1	W63214I-14I-15X1
2" X 1"	5.390	W43214I-14I-2X1	W63214I-14I-2X1
2" X 1-1/2"	3.555	W43214I-14I-2X15	W63214I-14I-2X15
2-1/2" X 1-1/2"	5.613	W43214I-14I-25X15	W63214I-14I-25X15
2-1/2" X 2"	3.638	W43214I-14I-25X2	W63214I-14I-25X2
3" X 1-1/2"	7.665	W43214I-14I-3X15	W63214I-14I-3X15
3" X 2"	5.690	W43214I-14I-3X2	W63214I-14I-3X2
3" X 2-1/2"	3.745	W43214I-14I-3X25	W63214I-14I-3X25
4" X 2"	9.828	W43214I-14I-4X2	W63214I-14I-4X2
4" X 2-1/2"	7.886	W43214I-14I-4X25	W63214I-14I-4X25
4" X 3"	5.938	W43214I-14I-4X3	W63214I-14I-4X3
6" X 3"	7.348	W43214I-14I-6X3	W63214I-14I-6X3
6" X 4"	7.478	W43214I-14I-6X4	W63214I-14I-6X4

FEMALE I-LINE CONCENTRIC REDUCERS 3115I-15I



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.735	W43115I-15I-15X1	W63115I-15I-15X1
2" X 1"	5.825	W43115I-15I-2X1	W63115I-15I-2X1
2" X 1-1/2"	3.990	W43115I-15I-2X15	W63115I-15I-2X15
2-1/2" X 1-1/2"	6.110	W43115I-15I-25X15	W63115I-15I-25X15
2-1/2" X 2"	4.200	W43115I-15I-25X2	W63115I-15I-25X2
3" X 1-1/2"	8.170	W43115I-15I-3X15	W63115I-15I-3X15
3" X 2"	6.260	W43115I-15I-3X2	W63115I-15I-3X2
3" X 2-1/2"	4.380	W43115I-15I-3X25	W63115I-15I-3X25
4" X 2"	10.39	W43115I-15I-4X2	W63115I-15I-4X2
4" X 2-1/2"	8.510	W43115I-15I-4X25	W63115I-15I-4X25
4" X 3"	6.570	W43115I-15I-4X3	W63115I-15I-4X3
6" X 3"	7.845	W43115I-15I-6X3	W63115I-15I-6X3
6" X 4"	7.975	W43115I-15I-6X4	W63115I-15I-6X4

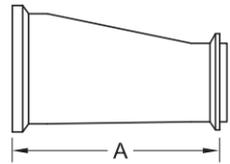
MALE X FEMALE I-LINE ECCENTRIC REDUCERS 3214I-15I



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.550	W43214I-15I-15X1	W63214I-15I-15X1
2" X 1"	5.575	W43214I-15I-2X1	W63214I-15I-2X1
2" X 1-1/2"	3.740	W43214I-15I-2X15	W63214I-15I-2X15
2-1/2" X 1-1/2"	5.798	W43214I-15I-25X15	W63214I-15I-25X15
2-1/2" X 2"	3.888	W43214I-15I-25X2	W63214I-15I-25X2
3" X 1-1/2"	7.858	W43214I-15I-3X15	W63214I-15I-3X15
3" X 2"	5.948	W43214I-15I-3X2	W63214I-15I-3X2
3" X 2-1/2"	6.068	W43214I-15I-3X25	W63214I-15I-3X25
4" X 2"	10.08	W43214I-15I-4X2	W63214I-15I-4X2
4" X 2-1/2"	8.198	W43214I-15I-4X25	W63214I-15I-4X25
4" X 3"	6.250	W43214I-15I-4X3	W63214I-15I-4X3
6" X 3"	7.660	W43214I-15I-6X3	W63214I-15I-6X3
6" X 4"	7.790	W43214I-15I-6X4	W63214I-15I-6X4

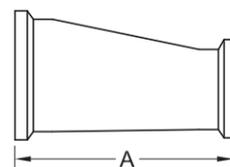
I-LINE REDUCERS

FEMALE X MALE I-LINE ECCENTRIC REDUCERS 3215I-14I



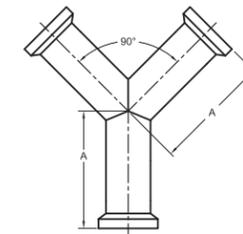
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.550	W43215I-14I-15X1	W63215I-14I-15X1
2" X 1"	5.640	W43215I-14I-2X1	W63215I-14I-2X1
2" X 1-1/2"	3.805	W43215I-14I-2X15	W63215I-14I-2X15
2-1/2" X 1-1/2"	5.925	W43215I-14I-25X15	W63215I-14I-25X15
2-1/2" X 2"	3.950	W43215I-14I-25X2	W63215I-14I-25X2
3" X 1-1/2"	7.985	W43215I-14I-3X15	W63215I-14I-3X15
3" X 2"	6.010	W43215I-14I-3X2	W63215I-14I-3X2
3" X 2-1/2"	4.068	W43215I-14I-3X25	W63215I-14I-3X25
4" X 2"	10.140	W43215I-14I-4X2	W63215I-14I-4X2
4" X 2-1/2"	8.198	W43215I-14I-4X25	W63215I-14I-4X25
4" X 3"	6.250	W43215I-14I-4X3	W63215I-14I-4X3
6" X 3"	7.535	W43215I-14I-6X3	W63215I-14I-6X3
6" X 4"	7.663	W43215I-14I-6X4	W63215I-14I-6X4

FEMALE I-LINE ECCENTRIC REDUCERS 3215I-15I

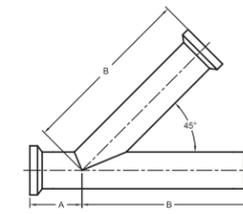


TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	3.550	W43215I-15I-15X1	W63215I-15I-15X1
2" X 1"	5.640	W43215I-15I-2X1	W63215I-15I-2X1
2" X 1-1/2"	3.805	W43215I-15I-2X15	W63215I-15I-2X15
2-1/2" X 1-1/2"	5.925	W43215I-15I-25X15	W63215I-15I-25X15
2-1/2" X 2"	3.950	W43215I-15I-25X2	W63215I-15I-25X2
3" X 1-1/2"	7.985	W43215I-15I-3X15	W63215I-15I-3X15
3" X 2"	6.010	W43215I-15I-3X2	W63215I-15I-3X2
3" X 2-1/2"	4.068	W43215I-15I-3X25	W63215I-15I-3X25
4" X 2"	10.140	W43215I-15I-4X2	W63215I-15I-4X2
4" X 2-1/2"	8.198	W43215I-15I-4X25	W63215I-15I-4X25
4" X 3"	6.250	W43215I-15I-4X3	W63215I-15I-4X3
6" X 3"	7.535	W43215I-15I-6X3	W63215I-15I-6X3
6" X 4"	7.663	W43215I-15I-6X4	W63215I-15I-6X4

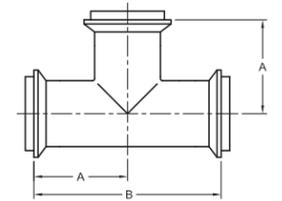
MISCELLANEOUS I-LINE CONFIGURATIONS



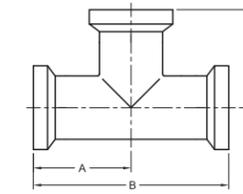
28BI
MALE I-LINE TRUE WYE



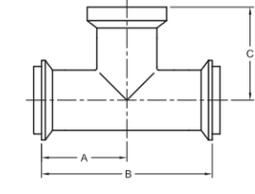
28AI
MALE I-LINE LATERAL WYE



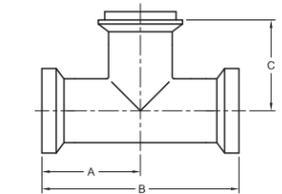
7HI
MALE I-LINE TEE



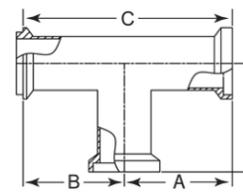
7I
FEMALE I-LINE TEE



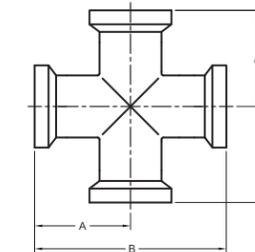
7EI
MALE RUN BY FEMALE
OUTLET TEE



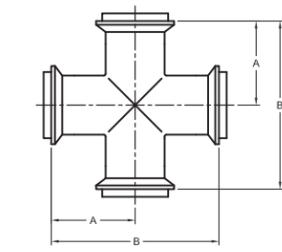
7AI
FEMALE RUN BY
MALE OUTLET TEE



7BI
FEMALE BY MALE RUN BY
FEMALE BRANCH TEE



9HI
FEMALE I-LINE CROSS



9I
MALE I-LINE CROSS

I-LINE GASKETS

I-LINE GASKETS 40I



SIZE	GASKET O.D.	GASKET I.D.	EPDM	PTFE	BUNA	FKM	SILICONE
1"	1.260	.870	40IE-1	40IT-1	40IU-1	40IV-1	40IX-1
1-1/2"	1.750	1.370	40IE-15	40IT-15	40IU-15	40IV-15	40IX-15
2"	2.250	1.870	40IE-2	40IT-2	40IU-2	40IV-2	40IX-2
2-1/2"	2.760	2.370	40IE-25	40IT-25	40IU-25	40IV-25	40IX-25
3"	3.310	2.870	40IE-3	40IT-3	40IU-3	40IV-3	40IX-3
4"	4.310	3.832	40IE-4	40IT-4	40IU-4	40IV-4	40IX-4
6"	6.910	5.782	40IE-6	40IT-6	40IU-6	40IV-6	40IX-6

THESE GASKETS ARE USED FOR MALE AND FEMALE I-LINE APPLICATIONS ONLY.

WAYLAND TUBING

TYPES:

- ASTM A270 Sanitary
- ASTM A249/A269 General Services

GRADES:

- W4 = 304 stainless steel
- W6 = 316L stainless steel

FINISH:

- 3A Polished ID and OD:
20 Ra / 32 Ra
- Unpolished

QUALITY ASSURANCE/ TESTING:

All required ASTM A270 testing, plus additional tests:

- Flare
- Reverse Bend
- Flatten
- Flange

PACKAGING:

- All tubing packaged in protective poly sleeves and end caps.
- Tubing is packaged and shipped in heavy-duty tri-wall cardboard boxes with solid wood ends.
- Other packaging available on request



HOW TO ORDER

W + Alloy + Product Type - Size (in.) - Wall Thickness

4 = 304	A270	.50	.065
6 = 316L	A249	.75	.083
		1.0	.109
		1.5	.120
	

Example:
W + 4 + A270 - 1 - .065
(W4A270-1-.065)

TUBING WEIGHTS & OPERATING PRESSURES

SIZE (TUBE O.D.)	WEIGHT PER FOOT (LBS.)	PRESSURE (PSI)	
		WORKING	BURST
1/2"	0.30	2708	10,833
3/4"	0.48	2167	8,666
1"	0.66	2438	9750
1-1/2"	1.00	1626	6503
2"	1.35	1219	4875
2-1/2"	1.70	975	3900
3"	2.05	812	3248
4"	3.50	683	2730
5"	4.40	546	2184
6"	6.92	636	2543
8"	9.27	477	1907
10"	11.62	382	1526
12"	13.97	318	1271

POLISHED ID & OD SANITARY TUBING

POLISHED TUBING ASTM-A270



SIZE (TUBE O.D.)	GAUGE	WALL THICKNESS (TOLERANCE)		304 PART NUMBER	316L PART NUMBER
1/2"	16	.065	±10%	--	W6A270-.50-.065
3/4"	16	.065	±10%	--	W6A270-.75-.065
1"	16	.065	±10%	W4A270-1-.065	W6A270-1-.065
1-1/2"	16	.065	±10%	W4A270-15-.065	W6A270-15-.065
2"	16	.065	±10%	W4A270-2-.065	W6A270-2-.065
2-1/2"	16	.065	±10%	W4A270-25-.065	W6A270-25-.065
3"	16	.065	±10%	W4A270-3-.065	W6A270-3-.065
4"	14	.083	±10%	W4A270-4-.083	W6A270-4-.083
5"	14	.083	±10%	W4A270-5-.083	--
6"	12	.109	±10%	W4A270-6-.109	W6A270-6-.109
8"	12	.109	±10%	W4A270-8-.109	W6A270-8-.109
10"	12	.109	±10%	W4A270-10-.109	W6A270-10-.109
12"	12	.109	±10%	W4A270-12-.109	W6A270-12-.109

UNPOLISHED ID & OD TUBING

UNPOLISHED TUBING ASTM-A249/A269

SIZE (TUBE O.D.)	GAUGE	WALL THICKNESS (TOLERANCE)		304 PART NUMBER	316L PART NUMBER
1"	16	.065	±10%	W4A249-1-.065	W6A249-1-.065
1-1/2"	16	.065	±10%	W4A249-15-.065	W6A249-15-.065
2"	16	.065	±10%	W4A249-2-.065	W6A249-2-.065
2-1/2"	16	.065	±10%	W4A249-25-.065	W6A249-25-.065
3"	16	.065	±10%	W4A249-3-.065	W6A249-3-.065
4"	14	.083	±10%	W4A249-4-.083	W6A249-4-.083
5"	14	.083	±10%	W4A249-5-.083	--
6"	12	.109	±10%	W4A249-6-.109	W6A249-6-.109
8"	12	.109	±10%	W4A249-8-.109	W6A249-8-.109

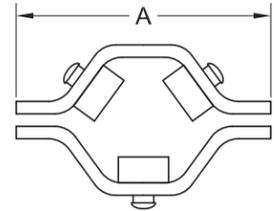
Notes:

Tubing available in 20' lengths only. Tubing ships via truck. Call for pricing & freight allowance details. Other sizes may be available, call. We are unable to accept tubing returns.



TUBE HEX HANGERS

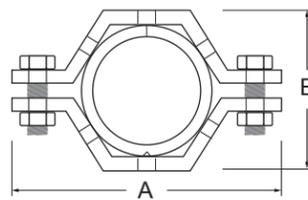
HEX TUBE HANGERS WITH GROMMETS RGHT



TUBE SIZE	A	304 PART NUMBER
1/2"	3.425	RGHT-.50
3/4"	3.425	RGHT-.75
1"	3.625	RGHT-1
1-1/2"	3.625	RGHT-15
2"	4.313	RGHT-2
2-1/2"	4.875	RGHT-25
3"	5.500	RGHT-3
4"	6.563	RGHT-4
6"	9.000	RGHT-6
8"	11.500	RGHT-8
10"	14.500	RGHT-10
12"	16.630	RGHT-12

Temperature Range: -22°F to 158°F
 Rubber Grommets are EPDM
 Imperial - 5/16" Bolts and Nuts

HEX TUBE HANGERS WITH PVC SLEEVE PVCT



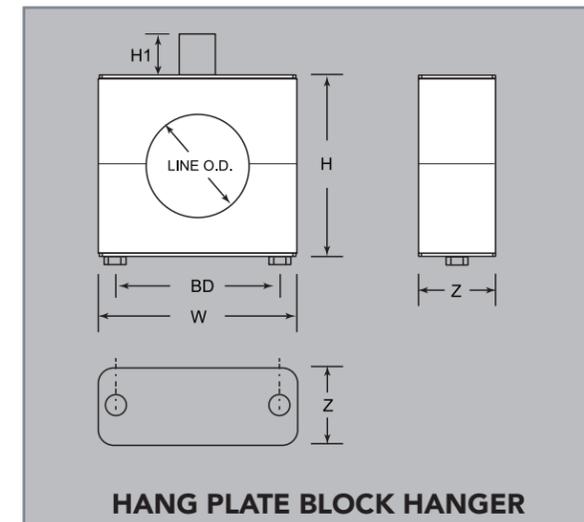
TUBE O.D.	A	B	BOX QUANTITY	304 PART NUMBER
1/2"	2.687	2.000	140	PVCT-.50
3/4"	2.687	1.562	130	PVCT-.75
1"	3.625	2.125	125	PVCT-1
1-1/2"	4.312	2.625	100	PVCT-15
2"	4.312	3.125	100	PVCT-2
2-1/2"	4.850	3.125	90	PVCT-25
3"	5.500	4.250	75	PVCT-3
4"	7.500	5.625	50	PVCT-4
6"	9.750	7.375	25	PVCT-6
8"	11.500	8.625	15	PVCT-8
10"	14.500	10.500	--	PVCT-10
12"	16.625	13.000	--	PVCT-12

Temperature Range: 5°F to 175°F
 Imperial - 5/16" Bolts and Nuts

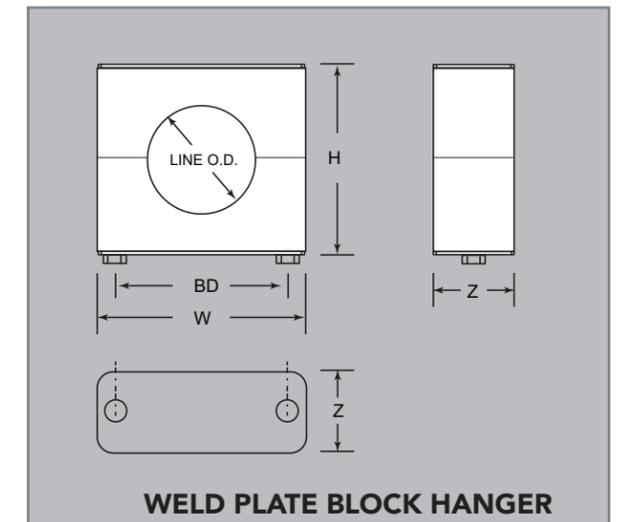
TUBE BLOCK HANGERS

HANG PLATE BLOCK HANGERS 24HP

TUBE O.D.	BD	H	H1	W	LINE O.D.	Z	THREAD	304 PART NUMBER
1/2"	1.44	1.69	0.60	1.93	0.50	0.75	3/8"-16	W424HP-.50
3/4"	1.44	1.69	0.60	1.93	0.75	0.75	3/8"-16	W424HP-.75
1"	1.44	1.69	0.60	1.93	1.00	0.75	3/8"-16	W424HP-1
1-1/2"	1.94	2.19	0.60	2.49	1.50	0.75	3/8"-16	W424HP-15
2"	2.44	2.69	0.60	2.99	2.00	0.88	1/2"-13	W424HP-2
2-1/2"	2.81	3.22	1.21	3.36	2.50	0.88	1/2"-13	W424HP-25
3"	3.44	3.97	1.21	3.99	3.00	0.88	1/2"-13	W424HP-3
4"	4.55	4.85	1.39	5.10	4.00	1.00	5/8"-11	W424HP-4



HANG PLATE BLOCK HANGER



WELD PLATE BLOCK HANGER

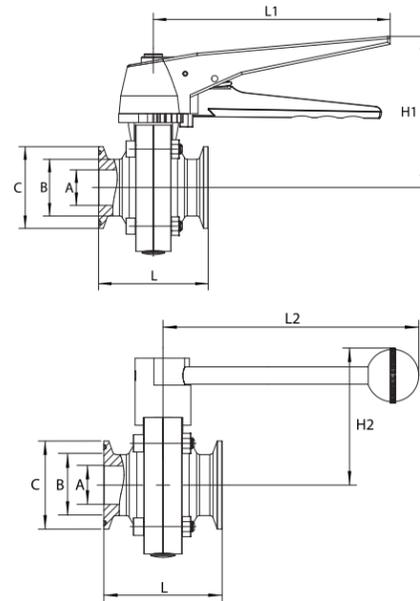
WELD PLATE BLOCK HANGERS 24WP

TUBE O.D.	BD	H	W	LINE O.D.	Z	304 PART NUMBER
1/2"	1.44	1.73	1.93	0.50	0.75	W424WP-.50
3/4"	1.44	1.73	1.93	0.75	0.75	W424WP-.75
1"	1.44	1.73	1.93	1.00	0.75	W424WP-1
1-1/2"	1.94	2.23	2.49	1.50	0.75	W424WP-15
2"	2.44	2.75	2.99	2.00	0.88	W424WP-2
2-1/2"	2.81	3.25	3.36	2.50	0.88	W424WP-25
3"	3.44	3.68	3.99	3.00	0.88	W424WP-3
4"	4.55	4.87	5.10	4.00	1.00	W424WP-4

BUTTERFLY VALVES

FEATURES:

- Material: 304 or 316L forged stainless steel body and disc
- 100% hydraulic tested / 100% inspected
- Field serviceable (no special tools required)
- Vacuum rating: 0.4 inches Hg at 68°F
- Seat options: EPDM (standard), Silicone, FKM
- Low resistance to flow
- Bi-directional flow
- Polyacetal bushings for the valve disc for reduced friction and increased life cycle
- All wetted surfaces are R_a 32 minimum
- Lockout/Tagout handle
- Operating temperature range: 15°F to 200°F



DIMENSIONS

SIZE	A	B	C	L	L1 (TH)	H1 (TH)	L2 (PH)	H2 (PH)
1"	0.870	1.000	1.988	2.677	6.299	3.583	5.000	3.031
1-1/2"	1.370	1.500	1.988	2.756	6.299	3.780	5.039	3.150
2"	1.870	2.000	2.520	2.992	6.299	3.858	5.315	3.465
2-1/2"	2.370	2.500	3.051	3.307	6.299	4.213	5.433	3.740
3"	2.870	3.000	3.583	3.307	6.299	4.528	5.906	4.016
4"	3.835	4.000	4.685	3.622	6.299	4.921	6.339	4.685
6"	5.780	6.000	6.575	4.331	8.268	6.299	6.693	6.299

SPECIFICATIONS

Information below based on water media at 68°F/20°C

SIZE	BREAK TORQUE (IN LBS.)			PRESSURE RATING (PSI)	FLOW COEFFICIENT (C _v)
	SILICONE	EPDM	FKM		
1"	20	75	70	160	23
1-1/2"	40	130	125	160	80
2"	55	165	175	160	230
2-1/2"	70	210	220	140	264
3"	165	350	310	140	372
4"	350	540	450	140	800
6"	700	1550	750	110	1200

BUTTERFLY VALVES

316L CLAMP END BUTTERFLY VALVE WITH STAINLESS STEEL TRIGGER HANDLE BFVTC-TS

SIZE	EPDM SEATS *	SILICONE SEATS	FKM SEATS
	316L	316L	316L
1"	W6BFVTC-E-1-TS	W6BFVTC-S-1-TS	W6BFVTC-V-1-TS
1-1/2"	W6BFVTC-E-15-TS	W6BFVTC-S-15-TS	W6BFVTC-V-15-TS
2"	W6BFVTC-E-2-TS	W6BFVTC-S-2-TS	W6BFVTC-V-2-TS
2-1/2"	W6BFVTC-E-25-TS	W6BFVTC-S-25-TS	W6BFVTC-V-25-TS
3"	W6BFVTC-E-3-TS	W6BFVTC-S-3-TS	W6BFVTC-V-3-TS
4"	W6BFVTC-E-4-TS	W6BFVTC-S-4-TS	W6BFVTC-V-4-TS
6"	W6BFVTC-E-6-TS	W6BFVTC-S-6-TS	W6BFVTC-V-6-TS

* VALVE COMES STANDARD WITH EPDM SEAT
*12 POSITION TRIGGER HANDLE



304 CLAMP END BUTTERFLY VALVE WITH PLASTIC TRIGGER HANDLE BFVTC-TP

NEW!

SIZE	EPDM SEATS *	SILICONE SEATS	FKM SEATS
	304	304	304
1"	W4BFVTC-E-1-TP	W4BFVTC-S-1-TP	W4BFVTC-V-1-TP
1-1/2"	W4BFVTC-E-15-TP	W4BFVTC-S-15-TP	W4BFVTC-V-15-TP
2"	W4BFVTC-E-2-TP	W4BFVTC-S-2-TP	W4BFVTC-V-2-TP
2-1/2"	W4BFVTC-E-25-TP	W4BFVTC-S-25-TP	W4BFVTC-V-25-TP
3"	W4BFVTC-E-3-TP	W4BFVTC-S-3-TP	W4BFVTC-V-3-TP
4"	W4BFVTC-E-4-TP	W4BFVTC-S-4-TP	W4BFVTC-V-4-TP

* VALVE COMES STANDARD WITH EPDM SEAT
* 12 POSITION TRIGGER HANDLE



CLAMP END BUTTERFLY VALVE WITH 4-POSITION PULL HANDLE BFVTC-PH

NEW!

SIZE	EPDM SEATS *		SILICONE SEATS		FKM SEATS	
	304	316L	304	316L	304	316L
1"	W4BFVTC-E-1-PH	W6BFVTC-E-1-PH	W4BFVTC-S-1-PH	W6BFVTC-S-1-PH	W4BFVTC-V-1-PH	W6BFVTC-V-1-PH
1-1/2"	W4BFVTC-E-15-PH	W6BFVTC-E-15-PH	W4BFVTC-S-15-PH	W6BFVTC-S-15-PH	W4BFVTC-V-15-PH	W6BFVTC-V-15-PH
2"	W4BFVTC-E-2-PH	W6BFVTC-E-2-PH	W4BFVTC-S-2-PH	W6BFVTC-S-2-PH	W4BFVTC-V-2-PH	W6BFVTC-V-2-PH
2-1/2"	W4BFVTC-E-25-PH	W6BFVTC-E-25-PH	W4BFVTC-S-25-PH	W6BFVTC-S-25-PH	W4BFVTC-V-25-PH	W6BFVTC-V-25-PH
3"	W4BFVTC-E-3-PH	W6BFVTC-E-3-PH	W4BFVTC-S-3-PH	W6BFVTC-S-3-PH	W4BFVTC-V-3-PH	W6BFVTC-V-3-PH
4"	W4BFVTC-E-4-PH	W6BFVTC-E-4-PH	W4BFVTC-S-4-PH	W6BFVTC-S-4-PH	W4BFVTC-V-4-PH	W6BFVTC-V-4-PH
6"	-	W6BFVTC-E-6-PH	-	W6BFVTC-S-6-PH	-	W6BFVTC-V-6-PH

* VALVE COMES STANDARD WITH EPDM SEAT



HOW TO ORDER

W + Alloy + Product Code + Ends - Seat - Size (in.) Handle

4 = 304
6 = 316L
BFV=Butterfly Valve
TC = Tri-Clamp
E=EPDM
S=Silicone
V=FKM
1
1.5
2
3
4
...
TS=Stainless Steel Trigger
TP=Plastic Trigger
PH=Pull Handle
SRO= Spring Return Open
SRC= Spring Return Closed
DA = Double Acting

Example: **W** + **6** + **BFV** + **TC** - **E** - **3** - **TS**

(W6BFVTC-E-3-TS)



ITEM	DESCRIPTION	MATERIAL
01	Valve Body	SS304/SS316L
02	Seat	Silicone / EPDM / FKM
03	Disc	SS304 / SS316L
04	Bushing	Plastic
05	Nut	SS304
06	Bolt	SS304
07	Support	SS304
08	Trigger Handle	Plastic / SS304
09	Washer	SS304
10	Plastic Plug	Plastic
11	Bolt	SS304
12	Plastic Plug	Plastic

Repair Kit Contains:

- (1) Disc
- (1) Seat
- (2) Bushings

BUTTERFLY VALVE REPAIR KITS AND REPLACEMENT SEATS

SIZE	EPDM (BLACK)		SILICONE (RED)		FKM (BROWN)	
	REPAIR KIT	REPLACEMENT SEAT	REPAIR KIT	REPLACEMENT SEAT	REPAIR KIT	REPLACEMENT SEAT
1"	W4BFV-RK-E-1	WBFV-ST-E-1	W4BFV-RK-S-1	WBFV-ST-S-1	W4BFV-RK-V-1	WBFV-ST-V-1
1-1/2"	W4BFV-RK-E-15	WBFV-ST-E-15	W4BFV-RK-S-15	WBFV-ST-S-15	W4BFV-RK-V-15	WBFV-ST-V-15
2"	W4BFV-RK-E-2	WBFV-ST-E-2	W4BFV-RK-S-2	WBFV-ST-S-2	W4BFV-RK-V-2	WBFV-ST-V-2
2-1/2"	W4BFV-RK-E-25	WBFV-ST-E-25	W4BFV-RK-S-25	WBFV-ST-S-25	W4BFV-RK-V-25	WBFV-ST-V-25
3"	W4BFV-RK-E-3	WBFV-ST-E-3	W4BFV-RK-S-3	WBFV-ST-S-3	W4BFV-RK-V-3	WBFV-ST-V-3
4"	W4BFV-RK-E-4	WBFV-ST-E-4	W4BFV-RK-S-4	WBFV-ST-S-4	W4BFV-RK-V-4	WBFV-ST-V-4
6"	W4BFV-RK-E-6	WBFV-ST-E-6	W4BFV-RK-S-6	WBFV-ST-S-6	W4BFV-RK-V-6	WBFV-ST-V-6

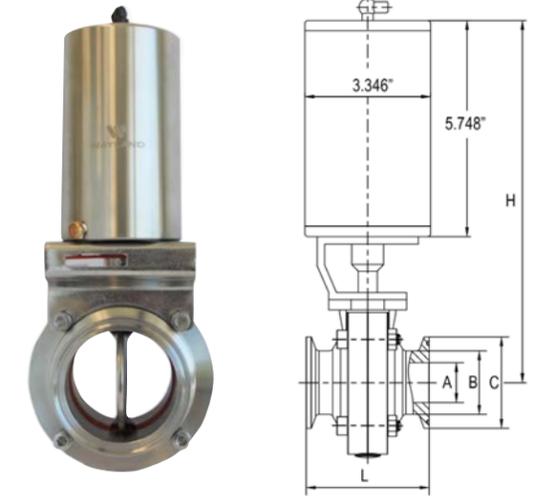
BUTTERFLY VALVE HANDLE REPLACEMENTS

SIZE	304 STAINLESS	BLACK PLASTIC	4 POSITION PULL HANDLE
	12-POSITION TRIGGER HANDLE	12-POSITION TRIGGER HANDLE	
1"			
1-1/2"	WBFV-1/15/2-TS	WBFV-1/15/2-TP	WBFV-1/15/2-PH
2"			
2-1/2"			WBFV-25-PH
3"	WBFV-25/3/4-TS	WBFV-25/3/4-TP	
4"			WBFV-3/4-PH
6"	WBFV-6-TS	N/A	WBFV-6-PH

ACTUATED BUTTERFLY VALVES

FEATURES:

- Material: T304 Stainless Steel
- Field Serviceable
- All wetted surfaces are RA 32 minimum
- Air Supply Pressure: 80 – 100 PSI
- Weight: 5.95 lbs
- Temperature Range: 15° to 200°F.
- Air Fitting Ports: 1/8" FNPT tap
- Air Hose Size: 1/4"
- Can be mounted on all butterfly valves up to 4"
- Available in "Normally Open" , "Normally Closed" & "Dual Acting" actuation



ACTUATED BUTTERFLY VALVES

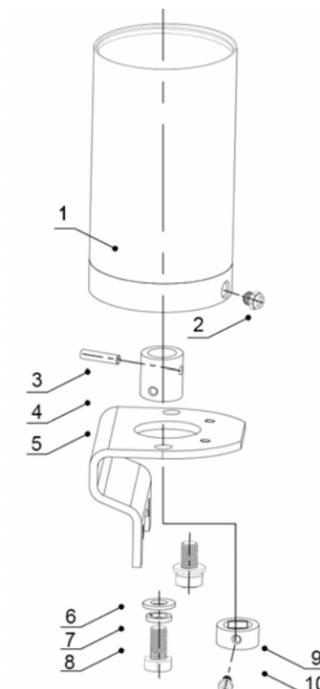
SIZE	DIMENSIONS					PART NUMBERS		
	A	B	C	L	H	SPRING RETURN OPEN	SPRING RETURN CLOSED	DUAL ACTING
1"	0.870	1.000	1.988	2.677	8.937	W6BFVTC-E-1-SRO	W6BFVTC-E-1-SRC	W6BFVTC-E-1-DA
1-1/2"	1.370	1.500	1.988	2.756	9.094	W6BFVTC-E-15-SRO	W6BFVTC-E-15-SRC	W6BFVTC-E-15-DA
2"	1.870	2.000	2.520	2.992	9.331	W6BFVTC-E-2-SRO	W6BFVTC-E-2-SRC	W6BFVTC-E-2-DA
2-1/2"	2.370	2.500	3.051	3.307	9.528	W6BFVTC-E-25-SRO	W6BFVTC-E-25-SRC	W6BFVTC-E-25-DA
3"	2.870	3.000	3.583	3.307	11.142	W6BFVTC-E-3-SRO	W6BFVTC-E-3-SRC	W6BFVTC-E-3-DA
4"	3.835	4.000	4.685	3.622	11.614	W6BFVTC-E-4-SRO	W6BFVTC-E-4-SRC	W6BFVTC-E-4-DA

- * REPLACE E (EPDM) WITH S (SILICONE) OR V (FKM) FOR SEAT PREFERENCE
- * REPLACE W6 (316L) WITH W4 (304) FOR ALLOY PREFERENCE

INDIVIDUAL VERTICAL CANISTER ACTUATOR PART NUMBERS

SPRING RETURN	DUAL ACTING
W4CVA-SR	W4CVA-DA

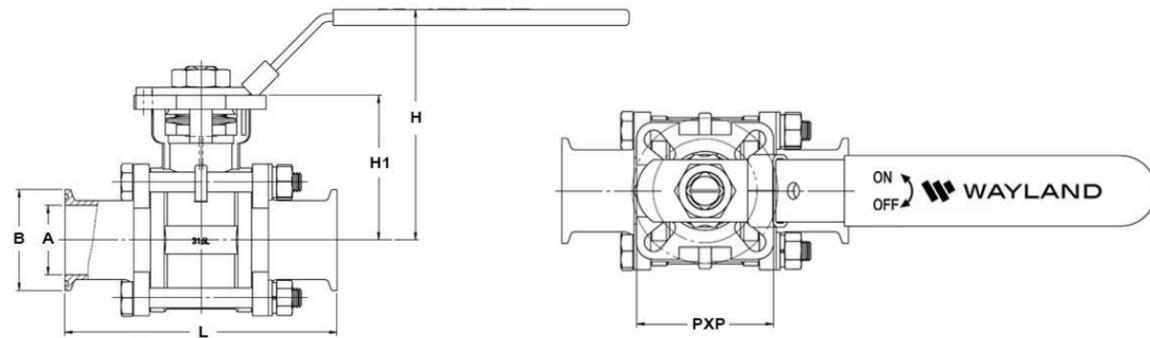
ITEM	DESCRIPTION	MATERIAL	QNTY
1	Actuator Body Component	SUS304	1
2	Muffler	H62	1
3	Connecting Pin	SUS304	1
4	Connecting Shaft	SUS304	1
5	Pneumatic Support	SUS304	1
6	Elastic Washer	65Mn	2
7	Fixed Washer	A2-70	2
8	Hexagon Bolt	A2-70	2
9	Pendulum Needle	Plastic / SS304	1
10	Hex Socket Screw	A2-70	1



ENCAPSULATED 2-WAY BALL VALVES

FEATURES:

- Material: CF8M (316L) stainless steel
- ID polish is R_a 32 minimum
- Blow-out proof stem
- Full port design offers lower pressure drop and less turbulent flow
- Precision stainless steel balls reduce torque and friction losses while extending seat life
- ISO 5211 high mounting pad for direct mount automation
- Maximum temperature: 356°F
- Pressure Rating (Body): 1/2" ~ 2" 1000PSI WOG
2-1/2" ~ 4" 800PSI WOG
6" 700PSI WOG
- Pressure Rating (Clamp End): 200PSI WOG
- Live-loaded stem packing
- Lockable handle can prevent accidental opening and closing
- Fully encapsulated construction
- 100% tested



DIMENSIONS

SIZE	A	B	L	H1	H	PXP	STEM SIZE
1/2"	0.370	0.992	3.543	1.417	2.441	1.654 X 1.654	0.35 X 0.35
3/4"	0.622	0.992	4.016	1.673	2.697	1.654 X 1.654	0.35 X 0.35
1"	0.870	1.988	4.528	2.067	3.504	1.969 X 1.969	0.43 X 0.43
1-1/2"	1.370	1.988	5.433	2.854	4.547	2.559 X 2.559	0.55 X 0.55
2"	1.870	2.520	6.142	3.091	4.783	2.559 X 2.559	0.55 X 0.55
2-1/2"	2.370	3.051	6.693	3.740	5.433	2.559 X 2.559	0.55 X 0.55
3"	2.870	3.583	7.756	4.350	6.496	3.563 X 3.563	0.67 X 0.67
4"	3.835	4.685	9.528	4.823	6.772	3.563 X 3.563	0.67 X 0.67
6"	5.783	6.571	15.512	8.661	9.724	4.685 X 4.685	1.063 X 1.063

ENCAPSULATED 2-WAY BALL VALVES

ENCAPSULATED 2-WAY BALL VALVES BVETC

SEAT MATERIAL	SIZE	WEIGHT (LBS)	BREAK TORQUE (LB-IN)	BALL VALVE PART NUMBER
VIRGIN PTFE	1/2"	1.06	87	W6BVETC-P-.50
	3/4"	1.46	87	W6BVETC-P-.75
	1"	2.51	145	W6BVETC-P-1
	1-1/2"	4.43	203	W6BVETC-P-15
	2"	6.83	290	W6BVETC-P-2
	2-1/2"	11.68	580	W6BVETC-P-25
	3"	18.43	1088	W6BVETC-P-3
	4"	29.32	1595	W6BVETC-P-4
	6"	148	--	W6BVETC-P-6 NEW!

REPAIR KITS AVAILABLE

HOW TO ORDER

W + Alloy + Product Code + Encapsulated + Ends - Seat - Size (in.)

6=316L BV = 3pc 2-way Ball Valve E=Encapsulated, N=Non-Encapsulated TC=Tri-Clamp P=PTFE

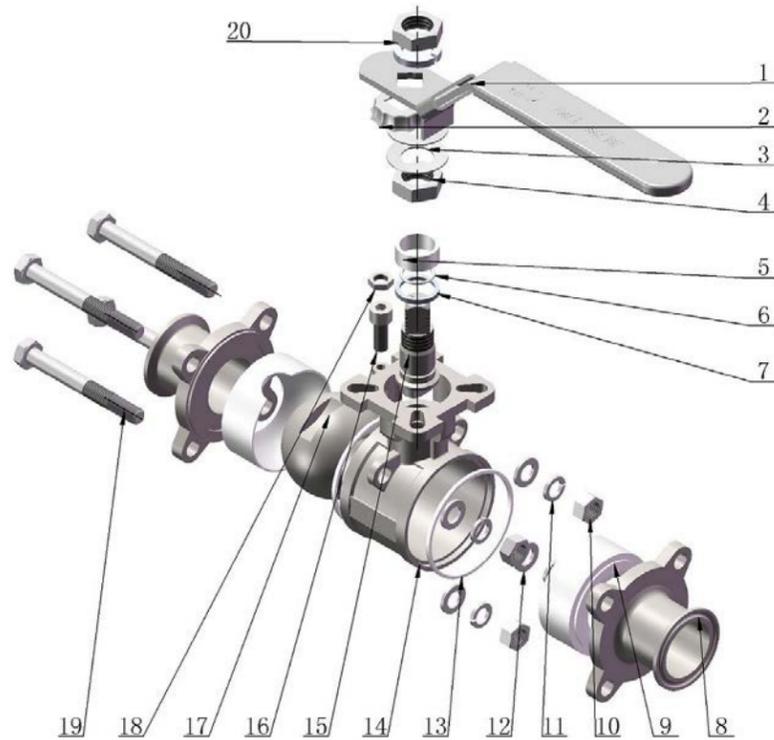
Example: **W + 6 + BV + E + TC - P - 4** (W6BVETC-P-4)



SANITARY VALVES

SANITARY VALVES

ENCAPSULATED 2-WAY BALL VALVES



ITEM	DESCRIPTION	MATERIAL	QNTY
1	Handle	304	1
2	Backstop Pad	304	1
3	Gland Ring	304	2
4	Hex Nut	304	2
5	Stem Packing	PTFE	3
6	O-Ring	VITON	1
7	Stem Seal	PTFE	1
8	Valve End	316L	2
9	Seat (encapsulated)	PTFE	2
10	Hex Nut	304	4
11	Bolt Elastic Washer	304	4
12	Bolt Washer	304	4
13	Body Seal	PTFE	2
14	Valve Body	316L	1
15	Stem	316L	1
16	Stop Pin	304	1
17	Ball	316L	1
18	Hex Nut	304	1
19	Bolt	304	4
20	Bolt Elastic Washer	304	1

ENCAPSULATED BALL VALVE REPAIR KITS

SIZE	PART NUMBER
1/2"	WBVE-RK-P-.50
3/4"	WBVE-RK-P-.75
1"	WBVE-RK-P-1
1.5"	WBVE-RK-P-15
2"	WBVE-RK-P-2
2.5"	WBVE-RK-P-25
3"	WBVE-RK-P-3
4"	WBVE-RK-P-4

Repair Kit Contains:

- (3) Stem Packing
- (1) O-ring
- (1) Stem Seal
- (2) Seat (encapsulated)
- (2) Body Seal

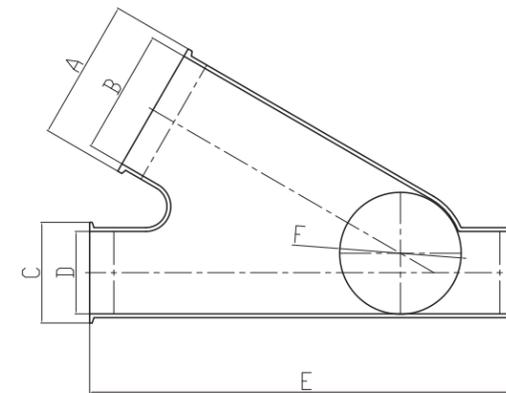
Y-BALL CHECK VALVES

FEATURES:

- Material: All metal product surfaces are 316L stainless steel
- Polished ID and OD to 3A standards
- PTFE ball provides better heat and abrasion resistance
- Easy cleaning without tools
- Air blow check valve can be added
- Operating Temperature Range: 15°F to 200°F
- Maximum Operating Pressure: 150 PSI



REPAIR KITS AVAILABLE



Y-BALL CHECK VALVES 45BY

SIZE	CAP/CLAMP SIZE	WEIGHT (LBS)	316L PART NUMBER
1-1/2"	2.0	2.9	W645BY-15
2"	2.5	4.4	W645BY-2
2-1/2"	4.0	7.3	W645BY-25
3"	4.5	14.5	W645BY-3

DIMENSIONS

VALVE SIZE	A	B	C	D	E	F
1-1/2"	2.520	1.860	1.990	1.370	8.600	1.610
2"	3.051	2.330	2.520	1.810	10.430	2.130
2-1/2"	4.650	3.520	3.050	2.370	11.890	3.540
3"	5.120	4.170	3.580	2.870	14.630	4.090

HOW TO ORDER

W + Alloy + Product Code - Size (in.)

6=316L 45BY=Y-Ball Check Valve 1.5 2 2.5 ...

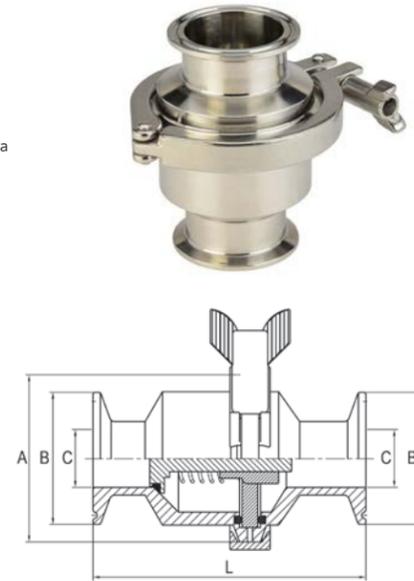
Example: **W + 6 + 45BY - 2**

(W645BY-2)

SPRING CHECK VALVES

FEATURES:

- Material: Forged 316L stainless steel
- Lower resistance to flow
- Suitable for low and medium viscosity fluids
- Full size flow plate
- Long stem bushing for better life cycle
- All wetted surfaces are sanitary finished to $\leq 32R_a$
- Operating temperature range:
 - Silicone: -58°F to 428°F
 - FKM: 0°F to 392°F
 - EPDM: -40 F to 302°F
- Maximum operating pressure: 145 PSI
- Seat and O-ring:
 - Silicone (standard), FKM, or EPDM



SPRING CHECK VALVES 45MP

SIZE	A	B	C	L	CRACKING PRESSURE (PSI)	316L PART NUMBER		
						SILICONE	FKM	EPDM
1/2"	1.988	0.984	0.374	3.500	2.6	W645MP-S-.50	W645MP-V-.50	W645MP-E-.50
3/4"	2.520	0.984	0.622	3.500	2.6	W645MP-S-.75	W645MP-V-.75	W645MP-E-.75
1"	2.520	1.988	0.870	4.126	3.6	W645MP-S-1	W645MP-V-1	W645MP-E-1
1-1/2"	3.051	1.988	1.370	4.563	3.6	W645MP-S-15	W645MP-V-15	W645MP-E-15
2"	3.583	2.520	1.870	5.063	3.6	W645MP-S-2	W645MP-V-2	W645MP-E-2
2-1/2"	4.173	3.051	2.374	5.374	3.6	W645MP-S-25	W645MP-V-25	W645MP-E-25
3"	4.685	3.583	2.874	6.126	4.3	W645MP-S-3	W645MP-V-3	W645MP-E-3
4"	5.689	4.685	3.843	8.126	4.3	W645MP-S-4	W645MP-V-4	W645MP-E-4
6"	8.543	6.567	5.780	10.157	4.7	W645MP-S-6	W645MP-V-6	W645MP-E-6

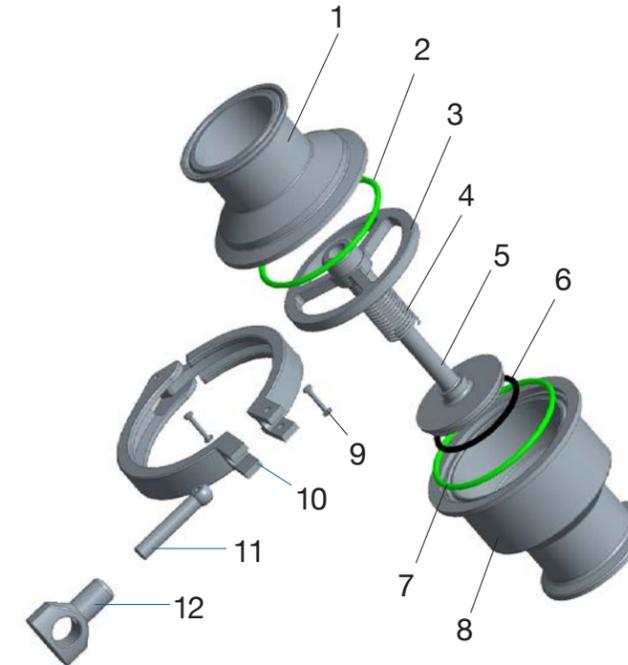
HOW TO ORDER

W + Alloy + Product Code - Seat - Size (in.)

6 = 316L
 45MP = Spring Check Valve
 V = FKM
 S = Silicone
 E = EPDM
 1
 1.5
 2
 2.5
 ...

Example:
W + 6 + 45MP - S - 2
(W645MP-S-2)

SPRING CHECK VALVES



ITEM	DESCRIPTION	MATERIAL	QNTY
1	Up valve body	316L	1
2	Sealing ring	Silicone	1
3	Center Disc of valve body	316L	1
4	Spring	316L	1
5	Valve stem	316L	1
6	Stem gasket	Silicone	1
7	Sealing ring	Silicone	1
8	Under valve body	316L	1
9	Clamp pin	304	2
10	Clamp	304	1
11	Clamp nut	304	1
12	Clamp screw	304	1

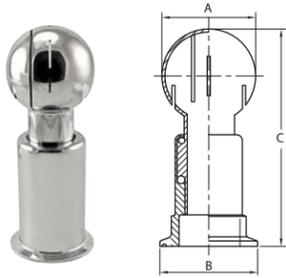
SPRING CHECK VALVE REPLACEMENT SEATS

NEW!

SIZE	SILICONE (black)	FKM (green)	EPDM (black)
1/2"	W45MP-ST-S-.50	W45MP-ST-V-.50	W45MP-ST-E-.50
3/4"	W45MP-ST-S-.75	W45MP-ST-V-.75	W45MP-ST-E-.75
1"	W45MP-ST-S-1	W45MP-ST-V-1	W45MP-ST-E-1
1-1/2"	W45MP-ST-S-15	W45MP-ST-V-15	W45MP-ST-E-15
2"	W45MP-ST-S-2	W45MP-ST-V-2	W45MP-ST-E-2
2-1/2"	W45MP-ST-S-25	W45MP-ST-V-25	W45MP-ST-E-25
3"	W45MP-ST-S-3	W45MP-ST-V-3	W45MP-ST-E-3
4"	W45MP-ST-S-4	W45MP-ST-V-4	W45MP-ST-E-4

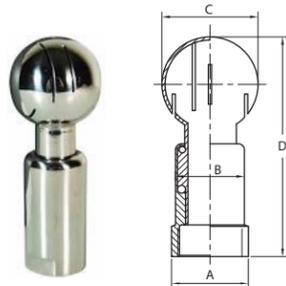
NEW! SPRAY BALLS

TRI-CLAMP ROTATING SPRAY BALL RSB-TC



TUBE O.D.	A	B	C	PRESSURE (PSI)	CLEANING RADIUS (ft)	FLOW RATE (gpm)	316L PART NUMBER
1-1/2"	2.09	1.99	5.65	29.00	4.10	53.00	W6RSB-TC-15

NPT ROTATING SPRAY BALL RSB-NPT

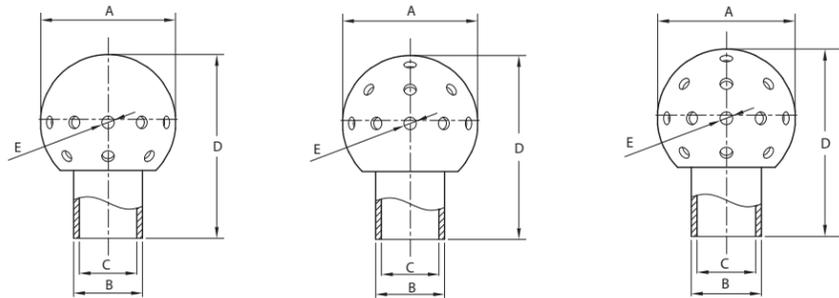


NPT SIZE	A	B	C	D	PRESSURE (PSI)	CLEANING RADIUS (ft)	FLOW RATE (gpm)	316L PART NUMBER
3/4"	1.34	1.26	1.50	4.13	29	4.92	28.6	W6RSB-NPT-75
1-1/2"	2.13	1.89	2.48	6.10	29	5.9	44	W6RSB-NPT-15

WELD END STATIONARY SPRAY BALLS SSB



TUBE O.D.	A	B	C	D	E	180° BOTTOM	180° TOP	360°
1"	1.50	1.00	0.87	2.36	0.07	W6SSB-180B-1	W6SSB-180T-1	W6SSB-360-1
1-1/2"	2.48	1.50	1.34	3.39	0.08	W6SSB-180B-15	W6SSB-180T-15	W6SSB-360-15



TUBE O.D.	PRESSURE (PSI)	CLEANING RADIUS (ft)	FLOW RATE 360 / 180
1"	36.26	3.3 - 4.1	75 / 44
1-1/2"	36.26	4.1 - 5.75	101 / 75

WAYLAND CROSS REFERENCE CHART

TRI-CLAMP FITTINGS

Product Description	Wayland	Alfa Laval	Dixon	VNE	Topline	Sanitary Solutions	Sanitube
Single Pin Heavy Duty Clamp	W13MHM	13MHM	13MHM	13MHM	13MHM	SS13MHM	13MHM
High Pressure Bolted Clamp	W13MHP	13MHP	13MHP	13MHP	13MHP	SS13MHP	13MHP
Short Weld Ferrule	W14WMP	14WMP	14WMP	EG2CS	14WMP	SS14WMP	14WMP
Long Weld Ferrule	W14AM7	L14AM7	L14AM7	EG14AM7	L14AM7	SSL14AM7	14AM7
Roll-On Ferrule	W14RMP	14RMP	14RMP	EG14R	14RMP	SS14RMP	14RMP
Tank Ferrule (Light Duty)	W14WLMP	14WLMP	14WLMP	EG14WL	14WLMP	SS14WLMP	14WLMP
Tank Ferrule (Heavy Duty)	W14MPW	14MPW	14MPW	EG14W	14MPW	SS14MPW	14MPW
Solid End Cap	W16AMP	16AMP	16AMP	EG16A	16AMP	SS16AMP	16AMP
Thermometer Cap	W23BMP	23BMP	B23BMP	EG23B	23BMP	SS23BMP	23BMP
Clamp x Plain Bevel Adapter w/ Hex Nut	W17MP-14	17MP-14	17MP-14	EG17PR	17MP-14	SS17MP-14	17MP-14
Clamp x Thread Bevel Seat Adapter	W17MP-15	17MP-15	17MP-15	EG17TR	17MP-15	SS17MP-15	17MP-15
Tygon™ Hose Adapter	W14MPHT	14MPHT	14MPHT	EG14HT	14MPHT	SS14MPHT	14MPHT
Rubber Hose Adapter	W14MPHR	14MPHR	14MPHR	EG14RT	14MPHR	SS14MPHR	14MPHR
Brewery Hose Barb Adapter	W14MPHRL	14MPHRL	14MPHRL	EG14MPHRL	14MPHRL	SS14MPHRL	14MPHRL
Male NPT x Tri-Clamp Adapter	W21MP	21MP	21MP	EG21	21MP	SS21MP	21MP
Female NPT x Tri Clamp Adapter	W22MP	22MP	22MP	EG22	22MP	SS22MP	22MP
90° Clamp Elbow	W2CMP	2CMP	B2CMP	EG2C	2CMP	SS2CMP	2CMP
90° Reducing Clamp Elbow	W2CMP-31MP	2CMP-31MP	B2CMP31MP	EG2C-31	2CMP-31MP	SS2CMP-31MP	2CMP-31MP
45° Clamp Elbow	W2KMP	2KMP	B2KMP	EG2K	2KMP	SS2KMP	2KMP
90° Clamp x Plain Bevel w/ Hex Nut	W2FMP-14	2FMP-14	B2FMP-14	EG2FPR	2FMP-14	SS2FMP-14	2FMP-14
90° Clamp x Thread Bevel Seat	W2FMP-15	2FMP-15	B2FMP-15	EG2FTR	2FMP-15	SS2FMP-15	2FMP-15
Clamp Tee	W7MP	7MP	B7MP	EG7	7MP	SS7MP	7MP
Clamp Reducing Tee	W7RMP	7RMP	B7RMP	EG7R	7RMP	SS7RMP	7RMP
Clamp Conc Reducer	W31-14MP	31-14MP	B3114MP	EG31CC	31-14MP	SS31-14MP	3114MP
Clamp Ecc Reducer	W32-14MP	32-14MP	B3214MP	EG32CC	32-14MP	SS32-14MP	3214MP
45° Clamp Lateral	W28AMP	28AMP	B28AMP	EG28A	28AMP	SS28AMP	28AMP
Clamp True Wye	W28BMP	28BMP	B28BMP	EG28B	28BMP	SS28BMP	28BMP
Clamp Cross	W9MP	9MP	B9MP	EG9	9MP	SS9MP	9MP
Clamp 180° Return Bend	W2UMP		B2WUMP	EG2WU	2WUMP	SS2WUMP	2WUMP
Clamp Gasket EPDM	40MPE	40MP-E	40MP-E	EG40E	40MP-E	40MPE	40MP-E
Clamp Gasket PTFE	40MPG	40MP-G	40MP-G	EG40T	40MP-G	40MPG	40MP-G
Clamp Gasket FKM (Viton)	40MPSFY	40MP-SFY	40MP-SFY	EG40V	40MP-SFY	40MPSFY	40MP-SFY
Clamp Gasket Black Buna	40MPU	40MP-U	40MP-U	EG40	40MP-U	40MPU	40MP-U
Clamp Gasket White Silicone	40MPX	40MP-X	40MP-X	EG40S	40MP-X	40MPX	40MP-X

BEVEL SEAT FITTINGS

Product Description	Wayland	Alfa Laval	Dixon	VNE	Topline	Sanitary Solutions	Sanitube
Union Hex Nut	W13H	13H	13H	13H	13H	SS13H	13H
Short Plain Bevel Seat Weld Ferrule	W14PRF	14PRF	14PRF	14PR	14PRF	SS14PRF	14PRF
Long Plain Bevel Seat Ferrule	W14A	L14A7	14A	14A	L14A7	SS14A	14A
Short Thread Bevel Seat Ferrule	W15TRF	15TRF	15TRF	15TR	15TRF	SS15TRF	15TRF
Long Thread Bevel Seat Ferrule	W15A	L15A7	15A	15A	L15A7	SS15A	15A
Plain Bevel Seat Solid End Cap	W16A	16A	16A	16A	16A	SS16A	16A
Thread x Thread Bevel 90°	W2C	2C	B2C	2C	2C	SS2C	2C
Thread x Thread Bevel 45°	W2K	2K	B2K	2K	2K	SS2K	2K

WAYLAND CROSS REFERENCE CHART

BEVEL SEAT FITTINGS (CON'T.)

Product Description	Wayland	Alfa Laval	Dixon	VNE	Topline	Sanitary Solutions	Sanitube
Thread x Plain Bevel w/ Hex Nut 90°	W2F	2F	B2F	2F	2F	SS2F	2F
Plain w/ Hex Nut x Plain w/ Hex Nut 90°	W2E	2E	B2E	2E	2E	SS2E	2E
Plain w/ Hex Nut x Thread Bevel 45°	W2P	2P	B2P	2P	2P	SS2P	2P
Thread Bevel x Weld Elbow 90°	W2T	2T	B2T	2T	2T	SS2T	2T
45° Weld x Thread Bevel Seat	W2KT	2KT	B2KT	2KT	2KT	SS2KT	2KT
90° Weld x Plain Bevel w/ Hex Nut	WL2F	L2F	B2F	E2F	L2F	SSL2F	L2F
45° Weld x Plain Bevel w/ Hex Nut	W2KP	2KP	B2KP	2KP	2KP	SS2KP	2KP
Thread Bevel x Weld Conc Reducer	W31T	31T	B31T	31T	31T	SS31T	31T
Thread Bevel x Weld Ecc Reducer	W32T	32T	B32T	32T	32T	SS32T	32T
Plain Bevel x Weld Conc Reducer	W31P	L31P	B31P	E31PW	L31P	SS31P	L31P
Plain Bevel x Weld Ecc Reducer	W32P	L32P	B32P	E32PW	L32P	SS32P	L32P
Thread x Thread Bevel Conc Reducer	W31TT	31TT	31TT	31TT	31TT	SS31TT	31TT
Thread x Plain Bevel w/Hex Nut Conc Red.	W31TP	31TP	31TP	31TP	31TP	SS31TP	31TP
Thread True Wye	W28B	28B	B28B	28B	28B	SS28B	28B
Thread Lateral Wye	W28A	28A	B28A	28A	28A	SS28A	28A
Thread Ends Equal Cross	W9	9	B9	9	9	SS9	9
Thread (3 Ends) x Plain Bevel Seat w/Nut	W9A	9A	B9A	9A	9A	SS9A	9A
Thread x Plain x Thread Outlet Equal Tee	W7B	7B	B7B	7B	7B	SS7B	7B
Thread x Thread x Plain Outlet Equal Tee	W7A	7A	B7A	7A	7A	SS7A	7A
Thread Ends Equal Tee	W7	7	B7	7	7	SS7	7
Bevel Seat Gasket PTFE	40BS-T	40BS-T	40BS-T		40BS-T	40BS-T	40BS-T
Bevel Seat Buna Gasket	40BS-B	40BS-B	40BS-B		40BS-B	40BS-B	40BS-B

BUTT WELD FITTINGS

Product Description	Wayland	Alfa Laval	Dixon	VNE	Topline	Sanitary Solutions	Sanitube
Polished 90° Weld Elbow w/ Tangents	WL2S	L2S	B2S	E2S	L2S	SS2S	L2S
Polished 90° Weld Elbow	W2WCL	2WCL-7	B2WCL	2WCL	2WCL	SS2WCL	2WC
Polished 45° Weld Elbow w/ Tangents	WL2KS	L2KS	B2KS	E2KS	L2KS	SS2KS	L2KS
Polished 45° Weld Elbow	W2WK	2WK-7	B2WK	E2WK	2WK	SS2WK	2WK
Polished 90° Clamp x Weld Elbow	WL2CM	L2CM	B2CM	E2C	L2CM	SS2CM	L2CM
Polished 45° Clamp x Weld Elbow	WL2KM	L2KMW	B2KM	E2KC	L2KM	SS2KM	L2KM
Polished 90° Weld Sweep Elbow	W2SXL		B2SXL			SS2SXL	2SXL
Polished Short Weld Tee	W7WWW	L7WWW	B7WWW	E7WWW	L7WWW	SS7WWW	7WS
Polished Long Weld Tee	W7W	L7W	B7W	E7W	7W	SS7W	7WL
Polished Reducing Short Weld Tee	W7RWWW	L7RWWW	B7RWWW	E7RWWW	L7RWWW	SS7RWWW	7WRT
Thread Run x Weld Branch	W7TTW	L7TTW	B7TTW	E7TTW	7TTW	SS7TTW	7TTW
Weld x Thread Run x Thread Branch	W7WTT	L7WTT	B7WTT	E7WTT	7WTT	SS7WTT	7WTT
Weld x Thread Run x Weld Branch	W7WTW	L7WTW	B7WTW	E7WTW	7WTW	SS7WTW	7WTW
Weld Run x Thread Branch	W7WWT	L7WWT	B7WWT	E7WWT	7WWT	SS7WWT	7WWT
Polished Conc Weld Reducer	W31W	L31	B31W	E31WW	L31	SS31W	31W
Polished Ecc Weld Reducer	W32W	L32	B32W	E32WW	L32	SS32W	32W
Polished Weld Lateral	W28WA	L28WA	B28WA	E28WA	L28WA	SS28WA	28WA
Polished Weld True Wye	W28WB	L28WB	B28WB	E28WB	L28WB	SS28WB	28WB
Polished Weld Cross	W9WWWWW	B9WWWWW	B9WWWWW	E9WWWWW	L9WWWWW	SS9WWWWW	9WWWWW
Polished Weld 180° Return Bend	W2WU	L2WU	B2WUL	E2WU	2WUL	SS2WUL	2WU

WAYLAND CROSS REFERENCE CHART

I-LINE FITTINGS

Product Description	Wayland	Alfa Laval	Dixon	VNE	Topline	Sanitary Solutions	Sanitube
Wing Nut I-Line Clamp	W13IS	HDI-13UD	13ILH	E13IS	13IS	SS13ILC	13IS
Bolted I-Line Clamp	W13I	HDI-13I	13ILB	E13IU	13IU	SS13ILB	13IU
Male I-Line Short Weld Ferrule	W14WI	HDI-14WI	14WI	E14WI	14WI	SS14WI	14WI
Male I-Line Long Weld Ferrule	W14WLI	HDI-14WLI	14WLI	E14WLI	14WLI	SS14WLI	14WLI
Female I-Line Short Weld Ferrule	W15WI	HDI-15WI	15WI	E15WI	15WI	SS15WI	15WI
Female I-Line Long Weld Ferrule	W15WLI	HDI-15WLI	15WLI	E15WLI	15WLI	SS15WLI	15WLI
Male I-Line Solid End Cap	W16AI-14I	HDI-16AI-14I	16AI-14I	E16AI-14I	16AI-14I	SS16AI-14I	16AI-14I
Female I-Line Solid End Cap	W16AI-15I	HDI-16AI-15I	16AI-15I	E16AI-15I	16AI-15I	SS16AI-15I	16AI-15I
Male I-Line x Clamp Adapters	W17-14I-14MP	HDI-17-14I-14MP	17-14I-14MP	E17-14I-14MP	17-14I-14MP	SS17-14I-14MP	17-14I-14MP
Female I-Line x Clamp Adapters	W17-15I-14MP	HDI-17-15I-14MP	17-15I-14MP	E17-15I-14MP	17-15I-14MP	SS17-15I-14MP	17-15I-14MP
90° Female I-Line Elbow	W2CI	HDI-2C	B2CI	E2CI	2CI	SS2CI	2CI
90° Male I-Line Elbow	W2EI	HDI-2E	B2EI	E2EI	2EI	SS2EI	2EI
45° Female I-Line Elbow	W2KI	HDI-2K	B2KI	E2KI	2KI	SS2KI	2KI
45° Male I-Line Elbow	W2HI	HDI-2HI	B2HI	E2HI	2HI	SS2HI	2HI
Female I-Line x Male I-Line 90° Elbow	W2FI	HDI-2F	B2FI	E2FI	2FI	SS2FI	2FI
Female I-Line x Male I-Line 45° Elbow	W2PI	HDI-2P	B2PI	E2PI	2PI	SS2PI	2PI
Male x Male I-Line Conc Reducer	W3114I-14I	HDI-3114I-14I	B3114I-14I	E3114I-14I	3114I-14I	SS3114I-14I	3114I-14I
Male x Female I-Line Conc Reducer	W3114I-15I	HDI-3114I-15I	B3114I-15I	E3114I-15I	3114I-15I	SS3114I-15I	3114I-15I
Female x Male I-Line Conc Reducer	W3115I-14I	HDI-3115I-14I	B3115I-14I	E3115I-14I	3115I-14I	SS3115I-14I	3115I-14I
Female I-Line Conc Reducer	W3115I-15I	HDI-3115I-15I	B3115I-15I	E3115I-15I	3115I-15I	SS3115I-15I	3115I-15I
Male x Male I-Line Ecc Reducer	W3214I-14I	HDI-3214I-14I	B3214I-14I	E3214I-14I	3214I-14I	SS3214I-14I	3214I-14I
Male x Female I-Line Ecc Reducer	W3214I-15I	HDI-3214I-15I	B3214I-15I	E3214I-15I	3214I-15I	SS3214I-15I	3214I-15I
Female x Male I-Line Ecc Reducer	W3215I-14I	HDI-3214I-15I	B3215I-14I	E3215I-14I	3215I-14I	SS3215I-14I	3215I-14I
Female I-Line Ecc Reducer	W3215I-15I	HDI-3214I-15I	B3215I-15I	E3215I-15I	3215I-15I	SS3215I-15I	3215I-15I
Male I-Line True Wye	W28BI	HDI-28BI	B28BI	E28BI	28BI	SS28BI	28BI
Male I-Line Lateral Wye	W28AI	HDI-28AI	B28AI	E28AI	28AI	SS28AI	28AI
Male I-Line Tee	W7HI	HDI-7HI	C7HI	E7HI	7HI	SS7HI	7HI
Female I-Line Tee	W7I	HDI-7	B7I	E7I	7I	SS7I	7I
Male Run x Female Outlet Tee	W7EI	HDI-7E	B7EI	E7EI	7EI	SS7EI	7EI
Female Run x Male Outlet Tee	W7AI	HDI-7A	7AI	E7AI	7AI	SS7AI	7AI
Female x Male Run x Female Branch Tee	W7BI	HDI-7B	B7BI	E7BI	7BI	SS7BI	7BI
Female I-Line Cross	W9HI	HDI-9HI	B9HI	E9HI	9HI	SS9HI	9HI
Male I-Line Cross	W9I	HDI-9	B9I	E9I	9I	SS9I	9I
I-Line Gasket EPDM	40IE	40IE	40IE	E40IE	40IE	40IE	40IE
I-Line Gasket PTFE	40IT	40IT	40IT	E40IT	40IT	40IT	40IT
I-Line Gasket Buna	40IH	40IH	40IH	E40IH	40IH	40IH	40IH
I-Line Gasket Viton	40IV	40IV	40IV	E40IV	40IV	40IV	40IV
I-Line Gasket Silicone	40IX	40IX	40IX	E40IS	40IX	40IX	40IX

MISCELLANEOUS

Product Description	Wayland	Alfa Laval	Dixon	VNE	Topline	Sanitary Solutions	Sanitube
Male NPT x Weld End Adapter	W19WB	19WB	B19WB	19WB	19WB	SS19WB	19WB
Female NPT x Weld End Adapter	W22WB	22WB	B22WB	22WB	22WB	SS22WB	22WB
Dome Cap	W16W	16W	B16W	V16W	16W	SS16W	16W
Tube Flange	W38SL	38SL	B38SL	E38SL	38SL	SS38SL	38SL
Type A Stub End	W14VB	14VB	14VB	V14WA	14VB	SS14VBA	14VB
Weld Neck Flange	W38W	38W	B38W	V38W	38W	SS38W	
Hex Hanger w/ Nitrile Grommets	RGHT		B24RG	E24	C24T	SSTHG	T24RG
Hex Hanger w/ Abs Sleeve	PVCT		B24PS	E24PVC	B24W	SSTHP	T24



FRACTION - DECIMAL - MM CONVERSION CHART

INCH FRACTION	INCH DECIMAL	MILLIMETERS
1/64	0.015625	0.3969
1/32	0.03125	0.7938
3/64	0.046875	1.1906
1/16	0.0625	1.5875
5/64	0.078125	1.9844
3/32	0.09375	2.3813
7/64	0.109375	2.7781
1/8	0.125	3.175
9/64	0.140625	3.5719
5/32	0.15625	3.9688
11/64	0.171875	4.3656
3/16	0.1875	4.7625
13/64	0.203125	5.15940
7/32	0.21875	5.5563
15/64	0.234375	5.9531
1/4	0.25	6.35
17/64	0.265625	6.7469
9/32	0.28125	7.1438
19/64	0.296875	7.5406
5/16	0.3125	7.9375
21/64	0.328125	8.3344
11/32	0.34375	8.7313
23/64	0.359375	9.1281
3/8	0.375	9.525
25/64	0.390625	9.9219
13/32	0.40625	10.3188
27/64	0.421875	10.7156
7/16	0.4375	11.1125
29/64	0.453125	11.5094
15/32	0.46875	11.9063
31/64	0.484375	12.3031
1/2	0.500	12.7001

INCH FRACTION	INCH DECIMAL	MILLIMETERS
33/64	0.515625	13.0969
17/32	0.53125	13.4938
35/64	0.546875	13.8906
9/16	0.5625	14.2875
37/64	0.578125	14.6844
19/32	0.59375	15.0813
39/64	0.609375	15.4781
5/8	0.625	15.8750
41/64	0.640625	16.2719
21/32	0.65625	16.6688
43/64	0.671875	17.0656
11/16	0.6875	17.4625
45/64	0.703125	17.8594
23/32	0.71875	18.2563
47/64	0.734375	18.6531
3/4	0.75	19.05
49/64	0.765625	19.4469
25/32	0.78125	19.8438
51/64	0.796875	20.2406
13/16	0.8125	20.6375
53/64	0.828125	21.0344
27/32	0.84375	21.4313
55/64	0.859375	21.8281
7/8	0.875	22.225
57/64	0.890625	22.6219
29/32	0.90625	23.0188
59/64	0.921875	23.4156
15/16	0.9375	23.8125
61/64	0.953125	24.2094
31/32	0.96875	25.0127
63/64	0.984375	25.0031
1	1.00	25.4001

COMPOUND SELECTION FOR FLUIDS & CHEMICALS

A – SATISFACTORY B – FAIR C – SEVERE EFFECT – EXCEPT FOR SOME STATIC APPLICATIONS D – UNSATISFACTORY E – INSUFFICIENT INFORMATION

FLUID	MATERIAL				
	Buna	EPDM	FKM	PTFE	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
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
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
Butyl Acetate	D	C	D	E	D
Butyl Acetyl Ricinoleate	C	A	A	E	E
Butyl Alcohol	A	B	A	A	B
Butylamine	C	B	D	E	D
Butyl Benzoate	D	B	A	E	E

FLUID	MATERIAL				
	Buna	EPDM	FKM	PTFE	Silicone
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
Carbon Monoxide	A	A	A	A	A
Carbon Tetrachloride	C	D	A	A	D
Castor Oil	A	B	A	A	A
Cellosolve 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
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
Dibromoethyl Benzene (Alkazene)	D	D	B	E	D
Dibutyl Amine	D	C	D	E	C

NOTE: 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. Wayland Industries assumes no responsibility whatsoever.



COMPOUND SELECTION FOR FLUIDS & CHEMICALS

A – SATISFACTORY B – FAIR C – SEVERE EFFECT – EXCEPT FOR SOME STATIC APPLICATIONS D – UNSATISFACTORY E – INSUFFICIENT INFORMATION

MATERIAL

FLUID	Buna	EPDM	FKM	PTFE	Silicone
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
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
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 Pentachlorobenzene	D	D	A	A	D

NOTE: 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. Wayland Industries assumes no responsibility whatsoever.

COMPOUND SELECTION FOR FLUIDS & CHEMICALS

A – SATISFACTORY B – FAIR C – SEVERE EFFECT – EXCEPT FOR SOME STATIC APPLICATIONS D – UNSATISFACTORY E – INSUFFICIENT INFORMATION

MATERIAL

FLUID	Buna	EPDM	FKM	PTFE	Silicone
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
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
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
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 - 20%	B	A	A	E	B

NOTE: 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. Wayland Industries assumes no responsibility whatsoever.

MATERIAL

FLUID	Buna	EPDM	FKM	PTFE	Silicone
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
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
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
Triocetyl 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
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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14MPHT.....	15	28AMP.....	26	31TT.....	63	7WWW.....	34
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14WMP.....	9	2CI.....	71	32P.....	62	ASTM-A270.....	79
14WMV.....	51	2CMP.....	20	32T.....	61	BFVTC.....	83
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14WMZ.....	52	2E.....	59	32W.....	45	L2CM.....	32
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15TRF.....	57	2F.....	58	38SL.....	49	L2KM.....	32
15WI.....	68	2FI.....	72	38W.....	49	L2KS.....	31
15WLI.....	68	2FMP-14.....	21	40BS.....	65	L2KS.....	41
16A.....	57	2FMP-15.....	21	40I.....	77	L2S.....	30
16AI-14I.....	69	2HI.....	72	40MP-42MP.....	28	L2S.....	40
16AI-15I.....	69	2K.....	58	40MP-MD.....	28	PVCT.....	80
16AMP.....	14	2KI.....	71	40MPF.....	28	RGHT.....	80
16AMP-SGL.....	93	2KMP.....	21	40MV.....	54	RSB-NPT.....	94
16AMV.....	52	2KP.....	60	45BY.....	89	RSB-TC.....	94
16W.....	38, 48	2KT.....	60	45MP.....	90	SPOOL.....	27
17-14I-14MP.....	70	2P.....	59	54BMP.....	93	SSB.....	94
17-15I-14MP.....	70	2PI.....	72	7.....	64	SVW.....	92
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Warranty & Limitations of Liability

Subject to the conditions and limitations in this Limited Warranty, WAYLAND INDUSTRIES, warrants to the owner of applicable real property in the United States (including its territories) and Canada that WAYLAND products, when properly installed in piping systems, under normal conditions of use, shall be free from failure caused by manufacturing defects for the applicable Warranty Period. This Limited Warranty is in effect for installations made after February 1, 2019 and applies strictly to products installed in the country which they were purchased.

All products must be installed in accordance with all then applicable codes, in accordance with any local, state, provincial or federal requirements. Products must at all times be used in a manner consistent with their intended use and be used in installations and environments acceptable to their material and design specifications, including not being installed in a system that may operate at temperatures or at pressures that exceed the approved ratings.

If a product is defective; the limitation of liability is to replace our products. There are no warranties, either expressed or implied (including any warranties of merchant ability or fitness for a particular purpose) in connection with our products except as expressly stated herein. We will not pay for charges for labor, expenses or damages occasioned by defective material. We will not be liable, in any case, for consequential or punitive damages. All of the above are in effect for 1 year from the date of shipment from Wayland Industries.

Validation of the Warranty Period is required through proof of purchase. No warranty shall be honored for any product which is modified or changed in any manner after leaving Wayland Industries. The warranty set forth herein also does not cover normal and customary wear and tear.

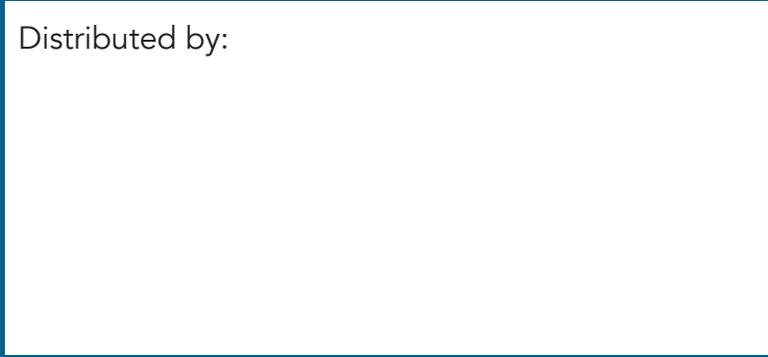
Should any failure to conform to this warranty be discovered within the Warranty Period and written notice of such nonconformity is provided to the Supplier promptly after such discovery and within the Warranty Period, upon return of the defective product to Supplier in accordance with the Supplier's instructions and the reasonable determination by Supplier that the product (a) does not conform to the warranty, Supplier will correct such defects by suitable repair or replacement of the product at Supplier's own expense or refund the portion of the price applicable to the non-conforming portion of the product (which alternative shall be at the sole discretion of Supplier).

No warranty of any kind, whether express or implied shall pass through our initial purchaser to any other person, organization, entity or the like. Except as expressly provided herein, in no event shall any liability or responsibility of Supplier which may arise in any circumstances whatsoever exceed the price to the initial purchaser of the Supplier's product on which liability is based.

Disclaimer: Supplier shall not be liable or responsible for omissions or errors in its catalog. Product information and specifications listed herein are subject to change without notice.



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