



FITTINGS, TUBING & VALVES

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

2025 CATALOG



The Right Way | The Fast Way | The Easy Way



www.WaylandIndustries.com

1.888.798.2653





Our Expertise

Wayland Industries is a leading provider of high-quality stainless steel sanitary fittings, valves, and tubing, serving distributors across 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.

Our Roots

The foundation of Wayland Industries stems from the vision of two brothers, Kevin and Andy Kurstin, whose family history is deeply intertwined with the distribution of industrial pipe, valves, and fittings. Their grandfather was a pioneer in the manufacturing of stainless steel butt-weld fittings on the West Coast, and their father established Smith-Cooper International, a prominent industrial PVF master distributor. Drawing upon four generations of expertise, Kevin and Andy are committed to elevating the standard of quality and service in master distribution.

Our Core Values

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 – We believe in building lasting partnerships grounded in trust and excellence. Our dedication to surpassing customer expectations and an unwavering integrity is at the heart 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 – Recognizing the importance of a seamless customer experience, we offer multi-platform ordering capability backed by a team of highly dedicated and experienced professionals. This allows our customers to effortlessly purchase the sanitary products they need.

At Wayland Industries, we are passionate about exceeding industry standards and delivering the highest quality sanitary fittings, valves, and tubing to our valued customers. Our dedication to excellence and customer satisfaction sets us apart as an industry leader, ready to serve and support our partners across North America.

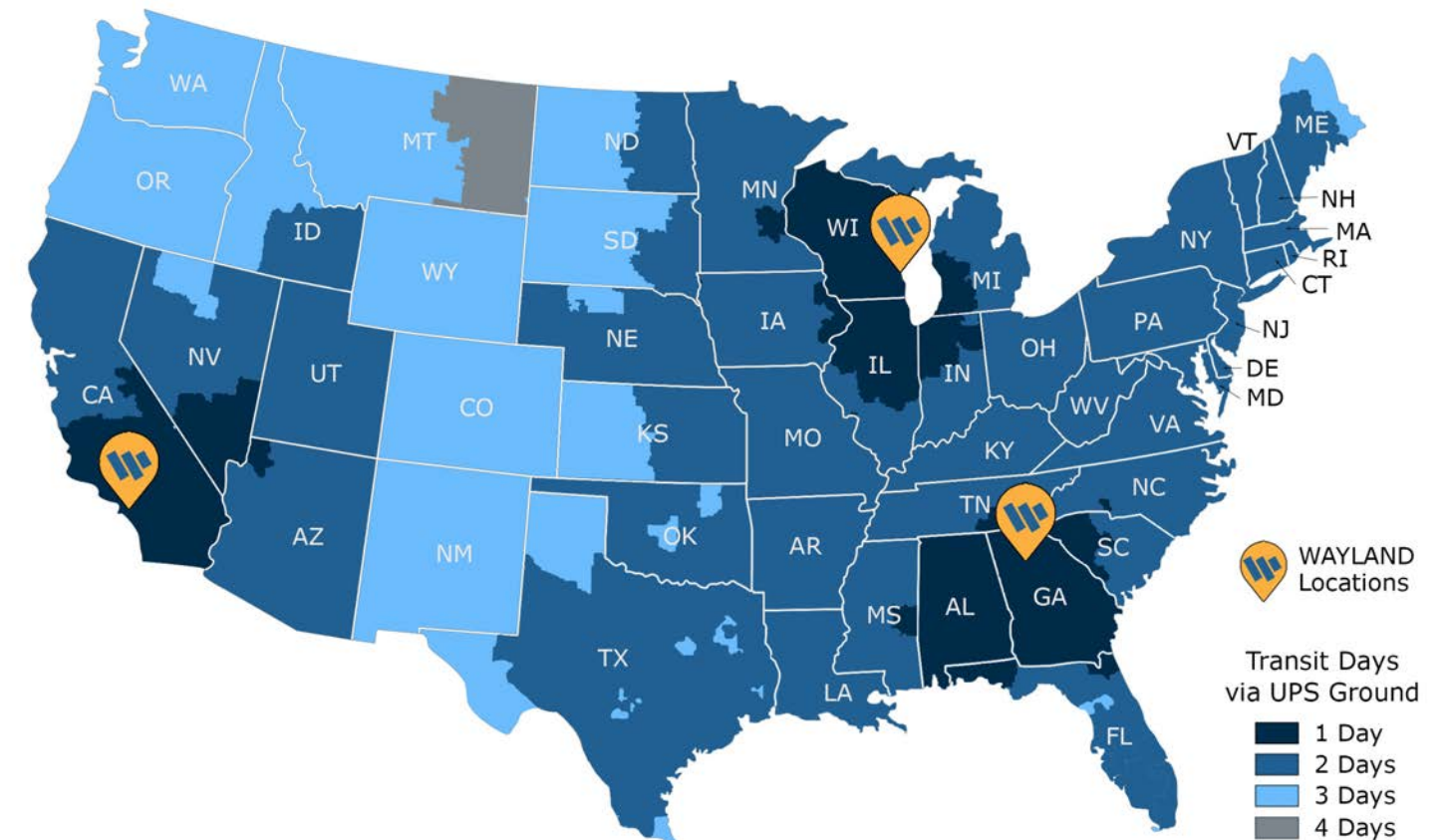
THE RIGHT WAY

THE FAST WAY

THE EASY WAY

UPS SHIPPING CHART

3 Locations to Serve You Better!



Los Angeles, California

10928 Bloomfield Ave
Santa Fe Springs, CA 90670

Milwaukee, Wisconsin

5915 S Pennsylvania Ave
Cudahy, WI 53110

Atlanta, Georgia

2440-D Pleasantdale Road
Atlanta, GA 30340



Industries Served



Food



Beverage



Dairy



Pharmaceutical



Meat and Poultry Processing



Oil Extraction



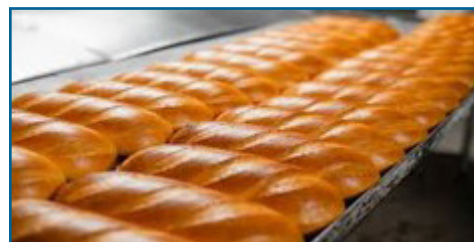
Brewery, Wine & Liquor



Cosmetic



Industrial Markets



Bakery



Agricultural Processing



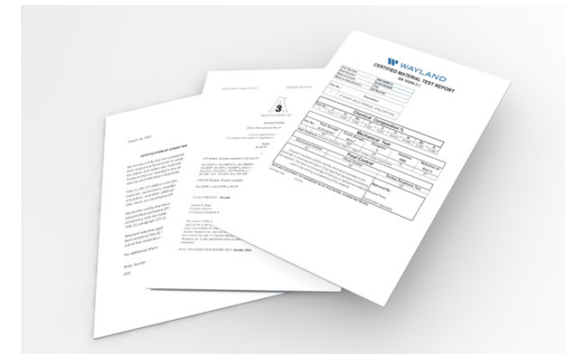
Nutraceuticals

WAYLAND QUALITY ASSURANCE

Wayland Industries provides the highest quality stainless steel sanitary fittings, valves, and tubing to distributors throughout North America. Our products are certified to 3-A sanitary standards. All Wayland products are produced by ISO 9001 certified suppliers. From manufacturing to final packaging, our rigid quality control systems ensure Wayland products always comply to our industry's highest specifications.

FULL TRACEABILITY AND CERTIFICATION

- **Traceability:** 100% of Wayland products are marked with our logo, size, alloy, part number, heat number, country of origin and mill order number for complete traceability of all 304 and 316L alloy parts used in manufacturing.
- **Material Test Reports (MTR):** Any Wayland heat number references it's EN 10204-3.1 material test report. Reports are available upon request for all 304 and 316L products and our website offers these MTRs 24/7.
- **Certification:** Wayland Industries maintains 3-A certifications for all applicable products. All gaskets and seals are FDA certified.



INSPECTION & TESTING

Inspection and testing are performed throughout the entire manufacturing process, from initial raw material inspection through final packaging and pre-shipment verification. Our quality systems and process capabilities ensure Wayland products are manufactured to 3-A Specifications. Wayland Industries products and processes are continuously monitored and follow these quality inspections and tests:

- Suppliers' ISO 9001 quality systems are evaluated and monitored
- Verification of incoming material and markings to mill certifications
- Positive Material Identification (PMI) confirming material chemistry
- Dimensional inspection to Wayland manufacturing tolerances
- Surface finish inspection
- Borescope inspection (tubing)
- Pressure testing (valves)
- Other testing and inspection procedures available per customer request





WAYLAND PART NUMBER BREAKDOWN

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

HOW TO ORDER

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

4 = 304
6 = 316L

L2S
13MHM
14AM7
...

.50
.75
1.0
1.5
...

7 = Polished
1 = Unpolished
**only applicable for weld fittings*

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



NEW WAYLAND PRODUCTS

NEW!



Double Pin Heavy Duty Clamps
(page 14)



Weld Run x Short Outlet Clamp Tees
(page 35)



Weld Run x Short Outlet Clamp Reducing Tees
(page 37)



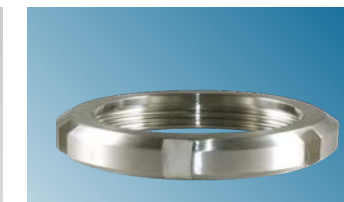
John Perry Fittings
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Q-Line Fittings
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SMS Fittings
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Butt-Weld Butterfly Valves
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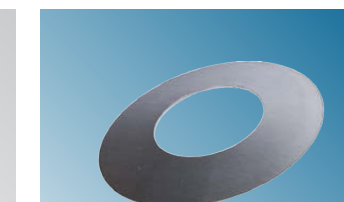
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Air Blow Check Valves
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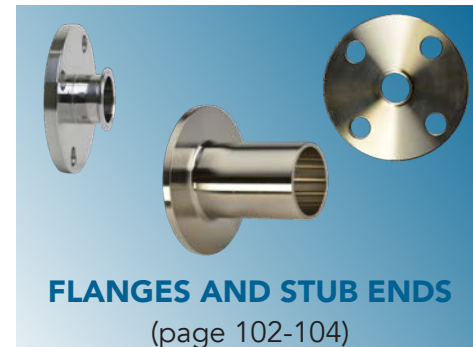
Now stocking butterfly valves in additional sizes of 1/2", 3/4" and 8"



NOW STOCKING
3A Food Grade A270 Tubing
In All Three Distribution Centers
(see page 10)



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WAYLAND TUBING

SPECIFICATIONS:

- 1/2" - 8" - ASTM A270 & ASTM A249/A269/A270 (3-A Certified, 33-03 #3845)
Finish: Polished ID and OD: 20 Ra / 32Ra
- 10" & 12" - ASTM A778
Finish: ID and OD: 32 Ra / 32Ra
- Mechanically Polished

GRADES:

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

QUALITY ASSURANCE/TESTING:

All required ASTM testing, plus additional tests:

- Flare
- Reverse Bend
- Flatten
- Flange

FEATURES

- Surcharges change monthly
- Tubing Available in 20' lengths only
- Broken box charges apply
- Tubing is non returnable

PACKAGING:

- All tubing individually packaged in protective poly sleeves and end caps
- Tubing is packaged and shipped in heavy-duty tri-wall cardboard boxes
- Wooden crates available for additional cost



HOW TO ORDER

W + Alloy	+ Product Type	- Size (in.)	- Wall Thickness
4 = 304L	A270	.50	.065
6 = 316L	A778	.75	.083
	A249	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	3250	19,500
3/4"	0.48	2167	13,000
1"	0.66	2280	9100
1-1/2"	1.00	1520	6100
2"	1.35	1140	4600
2-1/2"	1.70	910	3600
3"	2.05	760	3000
4"	3.50	730	2900
5"	4.40	546	2184
6"	6.92	635	2540
8"	9.27	475	1900
10"	11.62	465	1870
12"	13.97	455	1820



POLISHED ID & OD SANITARY TUBING



POLISHED TUBING

SIZE (TUBE O.D.)	GAUGE	WALL THICKNESS (TOLERANCE)	FEET per BOX	PCS per BOX	BOX Wt. (LB)	304 PART NUMBER	316L PART NUMBER
1/2"	16	.065 ±10%	300	15	105	--	W6A270-.50-.065
3/4"	16	.065 ±10%	300	15	156	--	W6A270-.75-.065
1"	16	.065 ±10%	420 / 1000	21 / 50	302 / 684	W4A270-1-.065	W6A270-1-.065
1-1/2"	16	.065 ±10%	560	28	580	W4A270-15-.065	W6A270-15-.065
2"	16	.065 ±10%	560	28	784	W4A270-2-.065	W6A270-2-.065
2-1/2"	16	.065 ±10%	400	20	724	W4A270-25-.065	W6A270-25-.065
3"	16	.065 ±10%	280	14	614	W4A270-3-.065	W6A270-3-.065
4"	14	.083 ±10%	160	8	588	W4A270-4-.083	W6A270-4-.083
5"	14	.083 ±10%	--	--	--	W4A270-5-.083	W6A270-5-.083
6"	12	.109 ±10%	100	5	984	W4A270-6-.109	W6A270-6-.109
8"	12	.109 ±10%	60	3	879	W4A270-8-.109	W6A270-8-.109
10"	12	.109 ±10%	--	--	--	W4A778-10-.109	W6A778-10-.109
12"	12	.109 ±10%	--	--	--	W4A778-12-.109	W6A778-12-.109

* Unpolished 1/2"-12" ASTM A249/A269 tubing available upon request



Sanitary CLAMP FITTINGS

Clamp fittings are widely popular for their easy assembly and breakdown capability, to allow process lines to be cleaned in place and additional cleaning out of place if necessary.

FEATURES:

- Size Range: 1/2" through 12"
- Alloys Available: 304 & 316L
- Surface Finish: 32R_a ID/OD
- Wall Thickness:
 - 1/2" through 3" 0.065"
 - 4" & 5" 0.083"
 - 6" through 12" 0.109"
- Certification: 3A 63-04 #3756 (Sanitary Fittings)



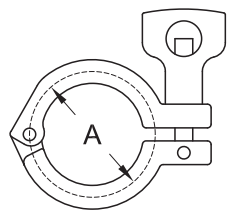
CLAMP FITTINGS

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	1.06	100	W413MHM-.50/.75
1" & 1-1/2"	500	300	2.12	50	W413MHM-1/15
2"	450	250	2.65	50	W413MHM-2
2-1/2"	400	200	3.18	40	W413MHM-25
3"	350	175	3.72	30	W413MHM-3
4"	300	150	4.82	40	W413MHM-4
5"	225	100	5.82	30	W413MHM-5
6"	150	75	6.69	15	W413MHM-6
8"	100	50	8.69	8	W413MHM-8
10"	75	40	10.74	5	W413MHM-10
12"	50	25	12.74	5	W413MHM-12

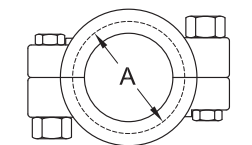
* Wing nut tightened to 25 in. lb. of torque



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	1.06	100	W413MHP-.50/.75
1" & 1-1/2"	1500	1200	2.05	40	W413MHP-1/15
2"	1000	800	2.58	50	W413MHP-2
2-1/2"	1000	800	3.11	40	W413MHP-25
3"	1000	800	3.64	35	W413MHP-3
4"	800	600	4.74	25	W413MHP-4
5"	300	200	5.83	25	W413MHP-5
6"	300	200	6.63	15	W413MHP-6
8"	250	150	8.64	8	W413MHP-8
10"	200	125	10.74	5	W413MHP-10
12"	150	100	12.74	5	W413MHP-12

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



BOLT & NUT SET FOR HIGH PRESSURE CLAMP

NEW!

TUBE O.D.	304 PART NUMBER
1/2" - 3/4"	W413MHP-BN-.50/.75
1" - 1-1/2"	W413MHP-BN-1/15
2"	W413MHP-BN-2
2-1/2"	W413MHP-BN-25
3" & 4"	W413MHP-BN-3-4
6"	W413MHP-BN-6



CLAMPS

THREE SEGMENT CLAMPS 13MHM3P

TUBE O.D.	SERVICE PRESSURE RATING @ 70° F	SERVICE PRESSURE RATING @ 250° F	A	304 PART NUMBER
1" & 1-1/2"	600	300	2.12	W413MHM3P-1/15
2"	550	275	2.65	W413MHM3P-2
2-1/2"	450	225	3.18	W413MHM3P-25
3"	350	175	3.72	W413MHM3P-3
4"	300	150	4.82	W413MHM3P-4

* Wing nut tightened to 25 in. lbs. torque

DOUBLE PIN HEAVY DUTY CLAMPS 13MHHM

NEW!

TUBE O.D.	SERVICE PRESSURE RATING @ 70° F	SERVICE PRESSURE RATING @ 250° F	A	304 PART NUMBER
1" & 1-1/2"	500	300	2.11	W413MHHM-1/15
2"	450	250	2.64	W413MHHM-2
2-1/2"	400	200	3.17	W413MHHM-25
3"	350	175	3.71	W413MHHM-3
4"	300	150	4.81	W413MHHM-4

* Wing nut tightened to 25 in. lbs. torque

CROSS HOLE WING NUT 13WNX

TUBE O.D.	304 PART NUMBER
1/2" - 8"	W413WNX-.50-8
10"	W413WNX-10
12"	W413WNX-12

SERRATED WING NUT 13WNS

TUBE O.D.	304 PART NUMBER
1/2" - 8"	W413WNS

CLAMP FERRULES

SHORT WELD FERRULES 14WMP

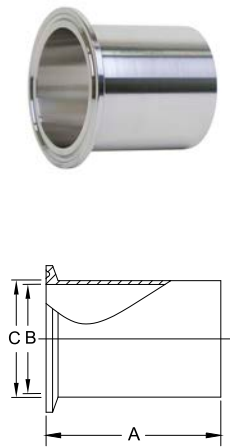
TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2"	0.50	0.37	0.50	--	W614WMP-.50
3/4"	0.50	0.62	0.75	--	W614WMP-.75
1"	0.50	0.87	1.00	W414WMP-1	W614WMP-1
1-1/2"	0.50	1.37	1.50	W414WMP-15	W614WMP-15
2"	0.50	1.87	2.00	W414WMP-2	W614WMP-2
2-1/2"	0.50	2.37	2.50	W414WMP-25	W614WMP-25
3"	0.50	2.87	3.00	W414WMP-3	W614WMP-3
4"	0.62	3.83	4.00	W414WMP-4	W614WMP-4
5"	0.75	4.83	5.00	--	W614WMP-5
6"	0.87	5.78	6.00	W414WMP-6	W614WMP-6
8"	0.87	7.78	8.00	W414WMP-8	W614WMP-8
10"	0.87	9.78	10.00	W414WMP-10	W614WMP-10
12"	0.87	11.78	12.00	W414WMP-12	W614WMP-12

LONG WELD FERRULES 14AM7

TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2"	1.12	0.37	0.50	--	W614AM7-.50
3/4"	1.12	0.62	0.75	--	W614AM7-.75
1"	1.12	0.87	1.00	W414AM7-1	W614AM7-1
1-1/2"	1.12	1.37	1.50	W414AM7-15	W614AM7-15
2"	1.12	1.87	2.00	W414AM7-2	W614AM7-2
2-1/2"	1.12	2.37	2.50	W414AM7-25	W614AM7-25
3"	1.12	2.87	3.00	W414AM7-3	W614AM7-3
4"	1.12	3.83	4.00	W414AM7-4	W614AM7-4
5"	1.12	4.83	5.00	--	W614AM7-5
6"	1.50	5.78	6.00	W414AM7-6	W614AM7-6
8"	1.50	7.78	8.00	W414AM7-8	W614AM7-8
10"	1.75	9.78	10.00	W414AM7-10	W614AM7-10
12"	1.75	11.78	12.00	W414AM7-12	W614AM7-12

CLAMP FERRULES

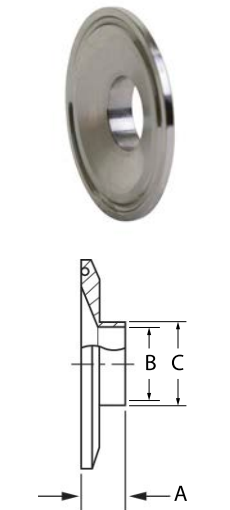
AUTOMATIC WELD FERRULES TL14AM7



TUBE O.D.	A	B	C	316L PART NUMBER
1/2"	1.75	0.37	0.50	W6TL14AM7-.50
3/4"	1.75	0.62	0.75	W6TL14AM7-.75
1"	1.75	0.87	1.00	W6TL14AM7-1
1-1/2"	1.75	1.37	1.50	W6TL14AM7-15
2"	2.25	1.87	2.00	W6TL14AM7-2
2-1/2"	2.25	2.37	2.50	W6TL14AM7-25
3"	2.25	2.87	3.00	W6TL14AM7-3
4"	2.25	3.83	4.00	W6TL14AM7-4
6"	3.00	5.78	6.00	W6TL14AM7-6

• 3A Finish - 32Ra ID/OD polish

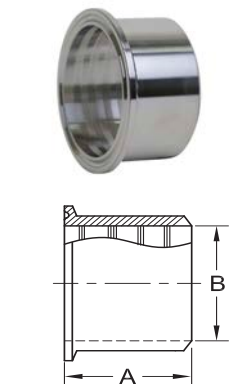
REDUCING FERRULES 31WMP



CLAMP END	TUBE O.D.	A	B	C	316L PART NUMBER
1-1/2"	1"	0.50	0.87	1.00	W631WMP-15X1
2"	1"	0.50	0.87	1.00	W631WMP-2X1
2"	1-1/2"	0.50	1.37	1.50	W631WMP-2X15
2-1/2"	1-1/2"	0.50	1.37	1.50	W631WMP-25X15
2-1/2"	2"	0.50	1.87	2.00	W631WMP-25X2
3"	1-1/2"	0.50	1.37	1.50	W631WMP-3X15
3"	2"	0.50	1.87	2.00	W631WMP-3X2
3"	2-1/2"	0.50	2.37	2.50	W631WMP-3X25
4"	2"	0.62	1.87	2.00	W631WMP-4X2
4"	2-1/2"	0.62	2.37	2.50	W631WMP-4X25
4"	3"	0.62	2.87	3.00	W631WMP-4X3

• Ferrules are tapered

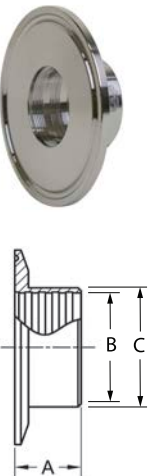
ROLL-ON FERRULES 14RMP



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	.75	1.01	W414RMP-1	W614RMP-1
1-1/2"	1.12	1.51	W414RMP-15	W614RMP-15
2"	1.31	2.01	W414RMP-2	W614RMP-2
2-1/2"	1.37	2.51	W414RMP-25	W614RMP-25
3"	1.44	3.01	W414RMP-3	W614RMP-3
4"	1.50	4.01	W414RMP-4	W614RMP-4
6"	2.00	6.01	W414RMP-6	W614RMP-6

CLAMP FERRULES

REDUCING ROLL-ON FERRULES 31RMP



CLAMP END	TUBE O.D.	A	B	C	316L PART NUMBER
1-1/2"	1"	0.75	1.01	1.16	W631RMP-15X1
2"	1"	0.75	1.01	1.16	W631RMP-2X1
2"	1-1/2"	1.12	1.51	1.68	W631RMP-2X15
2-1/2"	1-1/2"	1.12	1.51	1.68	W631RMP-25X15
2-1/2"	2"	1.12	2.01	2.19	W631RMP-25X2
3"	1-1/2"	1.31	1.51	1.68	W631RMP-3X15
3"	2"	1.31	2.01	2.19	W631RMP-3X2
4"	2-1/2"	1.37	2.51	2.69	W631RMP-4X25
4"	3"	1.37	3.01	3.22	W631RMP-4X3

TANK FERRULES (LIGHT DUTY) 14WLMP

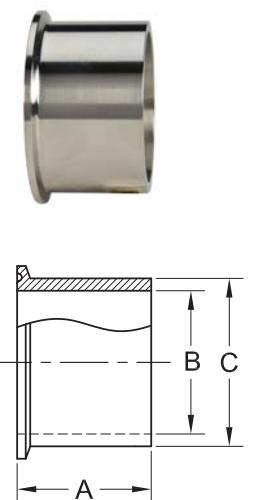


TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2"	3.000	0.37	0.50	--	W614WLMP-.50
3/4"	3.000	0.62	0.75	--	W614WLMP-.75
1"	3.000	0.87	1.00	W414WLMP-1	W614WLMP-1
1-1/2"	3.000	1.37	1.50	W414WLMP-15	W614WLMP-15
2"	3.000	1.87	2.00	W414WLMP-2	W614WLMP-2
2-1/2"	3.000	2.37	2.50	W414WLMP-25	W614WLMP-25
3"	4.000	2.87	3.00	W414WLMP-3	W614WLMP-3
4"	4.000	3.83	4.00	W414WLMP-4	W614WLMP-4
6"	6.000	5.78	6.00	W414WLMP-6	W614WLMP-6
8"	6.000	7.78	8.00	--	W614WLMP-8
10"	6.000	9.78	10.00	--	W614WLMP-10
12"	6.000	11.78	12.00	--	W614WLMP-12

TANK FERRULES (HEAVY DUTY) 14MPW



TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2"	1.62	0.32	0.50	--	W614MPW-.50
3/4"	1.62	0.57	0.75	--	W614MPW-.75
1"	1.62	0.87	1.16	W414MPW-1	W614MPW-1
1-1/2"	1.62	1.37	1.68	W414MPW-15	W614MPW-15
2"	1.75	1.87	2.19	W414MPW-2	W614MPW-2
2-1/2"	1.75	2.37	2.71	W414MPW-25	W614MPW-25
3"	1.81	2.87	3.22	W414MPW-3	W614MPW-3
4"	2.12	3.83	4.26	W414MPW-4	W614MPW-4
6"	2.50	5.76	6.19	W414MPW-6	W614MPW-6
8"	2.50	7.76	8.19	--	W614MPW-8



CLAMP CAPS

SOLID END CAPS 16AMP



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1/2" & 3/4"	0.19	0.99	--	W616AMP-.50/.75
1" & 1-1/2"	0.25	1.98	W416AMP-1/15	W616AMP-1/15
2"	0.25	2.52	W416AMP-2	W616AMP-2
2-1/2"	0.25	3.05	W416AMP-25	W616AMP-25
3"	0.25	3.58	W416AMP-3	W616AMP-3
4"	0.31	4.68	W416AMP-4	W616AMP-4
5"	0.38	5.69	--	W616AMP-5
6"	0.44	6.57	W416AMP-6	W616AMP-6
8"	0.44	8.57	W416AMP-8	W616AMP-8
10"	0.44	10.57	W416AMP-10	W616AMP-10
12"	0.44	12.57	W416AMP-12	W616AMP-12

THERMOMETER CAPS 23BMP

TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2" & 3/4"	1/4"	0.50	0.93	W423BMP-.50/.75X.25	W623BMP-.50/.75X.25
1" & 1-1/2"	1/4"	0.62	1.98	W423BMP-1/15X.25	W623BMP-1/15X.25
	1/2"	0.62	1.98	W423BMP-1/15X.50	W623BMP-1/15X.50
	3/8"	0.62	1.98	W423BMP-1/15X.375	--
	1/2"	0.62	1.98	W423BMP-1/15X.50	--
2"	3/4"	0.62	1.98	W423BMP-1/15X.75	W623BMP-1/15X.75
	3/4"	0.62	2.52	W423BMP-2X.75	W623BMP-2X.75
2-1/2"	3/4"	0.62	3.05	W423BMP-25X.75	W623BMP-25X.75
3"	3/4"	0.62	3.58	W423BMP-3X.75	W623BMP-3X.75
4"	3/4"	0.62	4.68	W423BMP-4X.75	W623BMP-4X.75

TYGON® HOSE ADAPTERS 14MPHT



TUBE O.D.	A	B	C	316L PART NUMBER
1/2"	4.00	0.37	0.50	W614MPHT-.50
3/4"	4.00	0.62	0.75	W614MPHT-.75
1"	4.50	0.87	1.00	W614MPHT-1
1-1/2"	4.50	1.37	1.50	W614MPHT-15
2"	4.50	1.87	2.00	W614MPHT-2
2-1/2"	4.50	2.37	2.50	W614MPHT-25
3"	4.50	2.87	3.00	W614MPHT-3
4"	4.62	3.83	4.00	W614MPHT-4
6"	6.00	5.78	6.00	W614MPHT-6

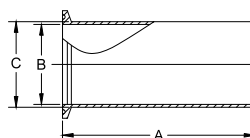
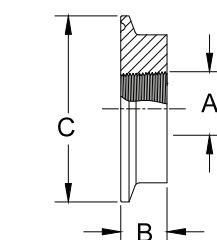
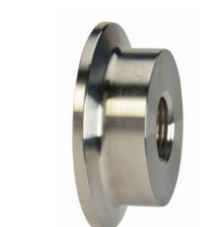
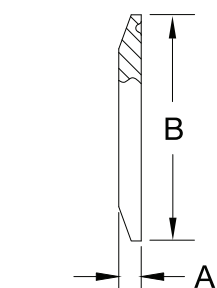
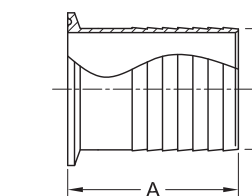
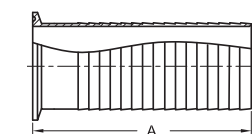
CLAMP ADAPTERS

BREWERY HOSE BARB ADAPTERS 14MPHRL

TUBE O.D.	A	B	304 PART NUMBER
1	3.500	1.03	W414MPHRL-1
1-1/2"	5.000	1.53	W414MPHRL-15
2"	5.000	2.03	W414MPHRL-2
2-1/2"	5.500	2.53	W414MPHRL-25
3"	5.500	3.03	W414MPHRL-3
4"	5.500	4.03	W414MPHRL-4

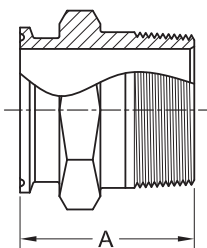
RUBBER HOSE ADAPTERS 14MPHR

TUBE O.D.	HOSE SIZE	A	B	304 PART NUMBER	316L PART NUMBER
1/2"	1/8"	1.25	0.15	--	W614MPHR-.50X.125
	1/4"	1.50	0.28	--	W614MPHR-.50X.25
	3/8"	1.50	0.40	--	W614MPHR-.50X.375
	1/2"	1.50	0.54	--	W614MPHR-.50
	3/4"	1.50	0.77	--	W614MPHR-.50X.75
3/4"	1/4"	1.50	0.28	--	W614MPHR-.75X.25
	3/8"	1.50	0.40	--	W614MPHR-.75X.375
	1/2"	1.50	0.54	--	W614MPHR-.75X.50
1"	3/4"	1.50	0.77	--	W614MPHR-.75
	3/8"	1.50	0.40	--	W614MPHR-1X.375
	1/2"	1.50	0.54	--	W614MPHR-1X.50
	3/4"	1.69	0.77	--	W614MPHR-1X.75
1-1/2"	1"	1.69	1.00	W414MPHR-1	W614MPHR-1
	1/4"	1.50	0.28	--	W614MPHR-15X.25
	3/8"	1.50	0.40	--	W614MPHR-15X.375
	1/2"	1.50	0.54	--	W614MPHR-15X.50
	5/8"	1.50	0.62	--	W614MPHR-15X.625
	3/4"	1.50	0.77	--	W614MPHR-15X.75
	1"	1.69	1.00	--	W614MPHR-15X1
	1-1/2"	1.69	1.50	W414MPHR-15	W614MPHR-15
2"	1/2"	1.81	0.54	--	W614MPHR-2X.50
	1"	2.31	1.00	--	W614MPHR-2X1
	1-1/2"	2.31	1.50	--	W614MPHR-2X15
2-1/2"	2"	2.31	2.00	W414MPHR-2	W614MPHR-2
	2-1/2"	2.34	2.50	W414MPHR-25	W614MPHR-25
3"	3"	3.09	3.00	W414MPHR-3	W614MPHR-3
4"	4"	3.41	4.00	W414MPHR-4	W614MPHR-4
6"	6"	3.41	6.00	--	W614MPHR-6
8"	8"	3.41	8.00	--	W614MPHR-8



CLAMP ADAPTERS

MALE NPT ADAPTERS 21MP



TUBE O.D.	NPT SIZE	A	304 PART NUMBER	316L PART NUMBER
1/2"	1/4"	2.00	--	W621MP-.50X.25
	3/8"	2.00	--	W621MP-.50X.375
	1/2"	2.00	--	W621MP-.50
	3/4"	2.00	--	W621MP-.50X.75
3/4"	1/4"	2.00	--	W621MP-.75X.25
	3/8"	2.00	--	W621MP-.75X.375
	1/2"	2.00	--	W621MP-.75X.50
	3/4"	2.00	--	W621MP-.75
1"	1/2"	2.19	--	W621MP-1X.50
	3/4"	2.19	--	W621MP-1X.75
	1"	2.25	W421MP-1	W621MP-1
	1-1/4"	2.44	--	W621MP-1X1.25
	1-1/2"	2.44	--	W621MP-1X15
	2"	2.64	--	W621MP-1X2
1-1/2"	1/4"	2.16	--	W621MP-15X.25
	3/8"	2.19	--	W621MP-15X.375
	1/2"	2.19	--	W621MP-15X.50
	3/4"	2.19	--	W621MP-15X.75
	1"	2.44	--	W621MP-15X1
	1-1/4"	2.44	--	W621MP-15X1.25
	1-1/2"	2.19	W421MP-15	W621MP-15
	2"	2.62	--	W621MP-15X2
2"	1/2"	2.19	--	W621MP-2X.50
	3/4"	2.19	--	W621MP-2X.75
	1"	2.47	--	W621MP-2X1
	1-1/2"	2.62	--	W621MP-2X15
	2"	2.64	W421MP-2	W621MP-2
2-1/2"	1/2"	2.78	--	W621MP-25X.50
	1"	2.78	--	W621MP-25X1
	1-1/2"	2.78	--	W621MP-25X15
	2"	2.78	--	W621MP-25X2
	2-1/2"	2.87	W421MP-25	W621MP-25
3"	1-1/2"	3.00	--	W621MP-3X15
	2"	3.00	--	W621MP-3X2
	3"	3.17	W421MP-3	W621MP-3
4"	4"	3.15	W421MP-4	W621MP-4

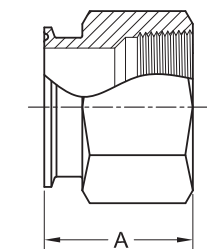
• All sizes have hex wrench flat design

CLAMP ADAPTERS

FEMALE NPT ADAPTERS 22MP

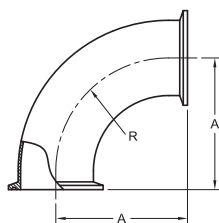
TUBE O.D.	NPT SIZE	A	304 PART NUMBER	316L PART NUMBER
1/2"	1/4"	1.50	--	W622MP-.50X.25
	3/8"	1.50	--	W622MP-.50X.375
	1/2"	1.50	--	W622MP-.50
	3/4"	1.50	--	W622MP-.50X.75
3/4"	1/4"	1.50	--	W622MP-.75X.25
	1/2"	1.63	--	W622MP-.75X.50
	3/4"	1.62	--	W622MP-.75
	1"	1.50	--	W622MP-1X.25
1"	1/2"	1.62	--	W622MP-1X.50
	3/4"	1.62	--	W622MP-1X.75
	1"	1.62	W422MP-1	W622MP-1
	1-1/4"	1.63	--	W622MP-1X1.25
	1-1/2"	1.62	--	W622MP-15X.375
1-1/2"	1/2"	1.62	--	W622MP-15X.50
	3/4"	1.62	--	W622MP-15X.75
	1"	2.25	--	W622MP-15X1
	1-1/2"	2.25	W422MP-15	W622MP-15
	2"	2.25	--	W622MP-15X2
2"	1"	1.69	--	W622MP-2X1
	1-1/2"	2.34	--	W622MP-2X15
	2"	2.41	W422MP-2	W622MP-2
	2-1/2"	2.40	--	W622MP-2X25
2-1/2"	2"	2.09	--	W622MP-25X2
	2-1/2"	2.18	W422MP-25	W622MP-25
3"	2"	2.19	--	W622MP-3X2
	2-1/2"	2.19	--	W622MP-3X25
	3"	2.19	W422MP-3	W622MP-3
4"	4"	3.65	W422MP-4	W622MP-4

• All sizes have hex wrench flat design



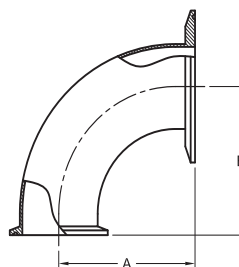
CLAMP ELBOWS

90° CLAMP ELBOWS 2CMP



TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	1.62	1.12	--	W62CMP-.50
3/4"	1.62	1.12	--	W62CMP-.75
1"	2.00	1.50	W42CMP-1	W62CMP-1
1-1/2"	2.75	2.25	W42CMP-15	W62CMP-15
2"	3.50	3.00	W42CMP-2	W62CMP-2
2-1/2"	4.25	3.75	W42CMP-25	W62CMP-25
3"	5.00	4.50	W42CMP-3	W62CMP-3
4"	6.62	6.00	W42CMP-4	W62CMP-4
6"	9.87	9.00	W42CMP-6	W62CMP-6
8"	12.87	12.00	--	W62CMP-8
10"	15.87	15.00	--	W62CMP-10
12"	18.87	18.00	--	W62CMP-12

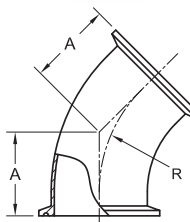
90° NON-TAPERED REDUCING CLAMP ELBOWS 2CMP-31MP



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1-1/2" X 1"	2.00	2.00	W42CMP-31MP-15X1	W62CMP-31MP-15X1
2" X 1"	2.00	2.00	W42CMP-31MP-2X1	W62CMP-31MP-2X1
2" X 1-1/2"	2.75	2.75	W42CMP-31MP-2X15	W62CMP-31MP-2X15
2-1/2" X 1-1/2"	2.75	2.75	W42CMP-31MP-25X15	W62CMP-31MP-25X15
2-1/2" X 2"	3.50	3.50	W42CMP-31MP-25X2	W62CMP-31MP-25X2
3" X 1-1/2"	2.75	2.75	W42CMP-31MP-3X15	W62CMP-31MP-3X15
3" X 2"	3.50	3.50	W42CMP-31MP-3X2	W62CMP-31MP-3X2
3" X 2-1/2"	4.25	4.25	W42CMP-31MP-3X25	W62CMP-31MP-3X25
4" X 2-1/2"	4.25	4.25	W42CMP-31MP-4X25	W62CMP-31MP-4X25
4" X 3"	5.12	5.00	W42CMP-31MP-4X3	W62CMP-31MP-4X3

CLAMP ELBOWS

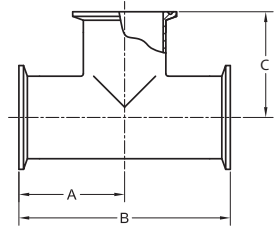
45° CLAMP ELBOWS 2KMP



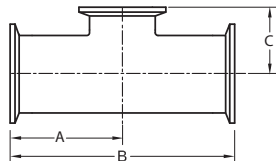
TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	0.97	1.12	--	W62KMP-.50
3/4"	0.97	1.12	--	W62KMP-.75
1"	1.12	1.50	W42KMP-1	W62KMP-1
1-1/2"	1.44	2.25	W42KMP-15	W62KMP-15
2"	1.75	3.00	W42KMP-2	W62KMP-2
2-1/2"	2.06	3.75	W42KMP-25	W62KMP-25
3"	2.37	4.50	W42KMP-3	W62KMP-3
4"	3.12	6.00	W42KMP-4	W62KMP-4
6"	4.62	9.00	W42KMP-6	W62KMP-6
8"	5.87	12.00	--	W62KMP-8
10"	7.12	15.00	--	W62KMP-10
12"	8.37	18.00	--	W62KMP-12

CLAMP TEES

CLAMP TEES 7MP



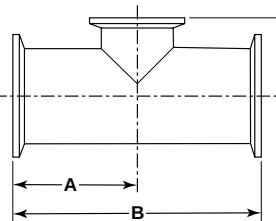
TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
1/2"	2.37	4.75	2.37	--	W67MP-.50
3/4"	2.50	5.00	2.50	--	W67MP-.75
1"	2.37	4.75	2.37	W47MP-1	W67MP-1
1-1/2"	2.75	5.50	2.75	W47MP-15	W67MP-15
2"	3.50	7.00	3.50	W47MP-2	W67MP-2
2-1/2"	3.50	7.00	3.50	W47MP-25	W67MP-25
3"	3.75	7.50	3.75	W47MP-3	W67MP-3
4"	4.50	9.00	4.50	W47MP-4	W67MP-4
6"	6.50	13.00	6.50	W47MP-6	W67MP-6
8"	7.88	15.75	7.88	--	W67MP-8
10"	9.38	18.75	9.38	--	W67MP-10
12"	10.88	21.75	10.88	--	W67MP-12



SHORT OUTLET CLAMP TEES 7MPS



TUBE O.D.	A	B	C	316L PART NUMBER
1"	2.37	4.75	1.13	W67MPS-1
1-1/2"	2.75	5.50	1.38	W67MPS-15
2"	3.50	7.00	1.63	W67MPS-2
2-1/2"	3.50	7.00	1.88	W67MPS-25
3"	3.75	7.50	2.13	W67MPS-3
4"	4.50	9.00	2.75	W67MPS-4



REDUCING SHORT OUTLET CLAMP TEES 7RMPS

NEW!

TUBE O.D.	A	B	C	316L PART NUMBER
1-1/2" X 1"	2.16	4.31	1.37	W67RMPS-15X1
2" X 1"	2.56	5.12	1.62	W67RMPS-2X1
2" X 1-1/2"	2.56	5.12	1.62	W67RMPS-2X15
2-1/2" X 2"	2.84	5.69	1.87	W67RMPS-25X2
3" X 1-1/2"	3.09	6.19	2.12	W67RMPS-3X15
3" X 2"	3.09	6.19	2.12	W67RMPS-3X2
4" X 2"	4.06	8.12	2.62	W67RMPS-4X2
4" X 3"	4.06	8.12	2.62	W67RMPS-4X3

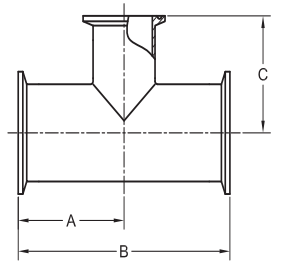
CLAMP TEES

CLAMP REDUCING TEES 7RMP

NEW!

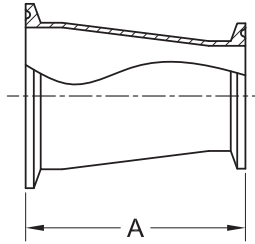


TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.50	5.00	2.50	--	W67RMP-.75X.50
1" X 1/2"	2.62	5.25	2.62	--	W67RMP-1X.50
1" X 3/4"	2.62	5.25	2.62	--	W67RMP-1X.75
1-1/2" X 1/2"	2.87	5.75	2.87	--	W67RMP-15X.50
1-1/2" X 3/4"	2.87	5.75	2.87	--	W67RMP-15X.75
1-1/2" X 1"	2.16	4.31	1.87	W47RMP-15X1	W67RMP-15X1
2" X 1/2"	3.37	6.75	3.12	--	W67RMP-2X.5
2" X 3/4"	3.37	6.75	3.12	--	W67RMP-2X.75
2" X 1"	2.56	5.12	2.13	W47RMP-2X1	W67RMP-2X1
2" X 1-1/2"	2.56	5.12	2.41	W47RMP-2X15	W67RMP-2X15
2-1/2" X 1"	2.84	5.69	2.38	--	W67RMP-25X1
2-1/2" X 1-1/2"	2.84	5.69	2.66	W47RMP-25X15	W67RMP-25X15
2-1/2" X 2"	2.84	5.69	2.81	W47RMP-25X2	W67RMP-25X2
3" X 1"	3.09	6.19	2.62	--	W67RMP-3X1
3" X 1-1/2"	3.09	6.19	2.91	W47RMP-3X15	W67RMP-3X15
3" X 2"	3.09	6.19	3.06	W47RMP-3X2	W67RMP-3X2
3" X 2-1/2"	3.09	6.19	3.09	W47RMP-3X25	W67RMP-3X25
4" X 1"	4.06	8.12	3.13	--	W67RMP-4X1
4" X 1-1/2"	4.06	8.12	3.41	W47RMP-4X15	W67RMP-4X15
4" X 2"	4.06	8.12	3.56	W47RMP-4X2	W67RMP-4X2
4" X 2-1/2"	4.06	8.12	3.59	W47RMP-4X25	W67RMP-4X25
4" X 3"	4.06	8.12	3.59	W47RMP-4X3	W67RMP-4X3
6" X 2"	6.50	13.00	5.00	--	W67RMP-6X2
6" X 3"	6.50	13.00	5.38	--	W67RMP-6X3
6" X 4"	6.50	13.00	5.75	--	W67RMP-6X4
8" X 4"	7.88	15.75	6.75	--	W67RMP-8X4
8" X 6"	7.88	15.75	7.50	--	W67RMP-8X6



CLAMP REDUCERS

CLAMP CONCENTRIC REDUCERS 31-14MP

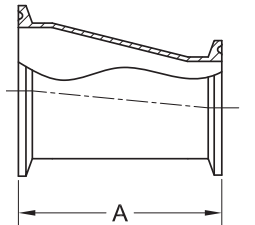


TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.00	--	W631-14MP-.75X.50
1" X 1/2"	3.00	--	W631-14MP-1X.50
1" X 3/4"	2.00	--	W631-14MP-1X.75
1-1/2" X 1/2"	5.00	--	W631-14MP-15X.50
1-1/2" X 3/4"	4.00	--	W631-14MP-15X.75
1-1/2" X 1"	3.00	W431-14MP-15X1	W631-14MP-15X1
2" X 1/2"	7.00	--	W631-14MP-2X.50
2" X 3/4"	6.00	--	W631-14MP-2X.75
2" X 1"	5.00	W431-14MP-2X1	W631-14MP-2X1
2" X 1-1/2"	3.00	W431-14MP-2X15	W631-14MP-2X15
2-1/2" X 1"	7.00	W431-14MP-25X1	W631-14MP-25X1
2-1/2" X 1-1/2"	5.00	W431-14MP-25X15	W631-14MP-25X15
2-1/2" X 2"	3.00	W431-14MP-25X2	W631-14MP-25X2
3" X 1"	9.00	W431-14MP-3X1	W631-14MP-3X1
3" X 1-1/2"	7.00	W431-14MP-3X15	W631-14MP-3X15
3" X 2"	5.00	W431-14MP-3X2	W631-14MP-3X2
3" X 2-1/2"	3.00	W431-14MP-3X25	W631-14MP-3X25
4" X 1"	13.13	W431-14MP-4X1	W631-14MP-4X1
4" X 1-1/2"	11.12	W431-14MP-4X15	W631-14MP-4X15
4" X 2"	9.12	W431-14MP-4X2	W631-14MP-4X2
4" X 2-1/2"	7.12	W431-14MP-4X25	W631-14MP-4X25
4" X 3"	5.12	W431-14MP-4X3	W631-14MP-4X3
6" X 2"	6.87	W431-14MP-6X2	W631-14MP-6X2
6" X 3"	6.87	W431-14MP-6X3	W631-14MP-6X3
6" X 4"	7.00	W431-14MP-6X4	W631-14MP-6X4
8" X 4"	7.50	--	W631-14MP-8X4
8" X 6"	7.75	--	W631-14MP-8X6
10" X 8"	8.75	--	W631-14MP-10X8
12" X 10"	9.75	--	W631-14MP-12X10

NEW!
NEW!

CLAMP REDUCERS

CLAMP ECCENTRIC REDUCERS 32-14MP

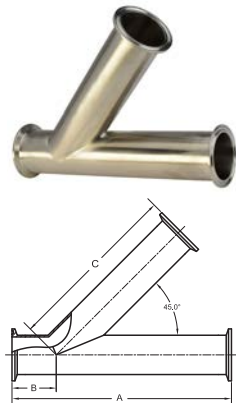


TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.00	--	W632-14MP-.75X.50
1" X 1/2"	3.00	--	W632-14MP-1X.50
1" X 3/4"	2.00	--	W632-14MP-1X.75
1-1/2" X 1/2"	5.00	--	W632-14MP-15X.50
1-1/2" X 3/4"	4.00	--	W632-14MP-15X.75
1-1/2" X 1"	3.00	W432-14MP-15X1	W632-14MP-15X1
2" X 1/2"	7.00	--	W632-14MP-2X.50
2" X 3/4"	6.00	--	W632-14MP-2X.75
2" X 1"	5.00	W432-14MP-2X1	W632-14MP-2X1
2" X 1-1/2"	3.00	W432-14MP-2X15	W632-14MP-2X15
2-1/2" X 1"	7.00	W432-14MP-25X1	W632-14MP-25X1
2-1/2" X 1-1/2"	5.00	W432-14MP-25X15	W632-14MP-25X15
2-1/2" X 2"	3.00	W432-14MP-25X2	W632-14MP-25X2
3" X 1"	9.00	W432-14MP-3X1	W632-14MP-3X1
3" X 1-1/2"	7.00	W432-14MP-3X15	W632-14MP-3X15
3" X 2"	5.00	W432-14MP-3X2	W632-14MP-3X2
3" X 2-1/2"	3.00	W432-14MP-3X25	W632-14MP-3X25
4" X 1"	13.13	W432-14MP-4X1	W632-14MP-4X1
4" X 1-1/2"	11.12	W432-14MP-4X15	W632-14MP-4X15
4" X 2"	9.12	W432-14MP-4X2	W632-14MP-4X2
4" X 2-1/2"	7.12	W432-14MP-4X25	W632-14MP-4X25
4" X 3"	5.12	W432-14MP-4X3	W632-14MP-4X3
6" X 2"	6.87	W432-14MP-6X2	W632-14MP-6X2
6" X 3"	6.87	W432-14MP-6X3	W632-14MP-6X3
6" X 4"	7.00	W432-14MP-6X4	W632-14MP-6X4
8" X 4"	7.50	--	W632-14MP-8X4
8" X 6"	7.75	--	W632-14MP-8X6
10" X 8"	8.75	--	W632-14MP-10X8
12" X 10"	9.75	--	W632-14MP-12X10

NEW!
NEW!

MISCELLANEOUS CLAMP CONFIGURATIONS

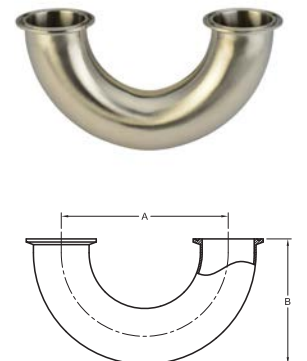
CLAMP LATERALS 28AMP



TUBE O.D.	A	B	C	316L PART NUMBER
1"	7.00	1.50	5.50	W628AMP-1
1-1/2"	8.37	1.69	6.69	W628AMP-15
2"	9.75	2.12	7.62	W628AMP-2
2-1/2"	11.00	2.00	9.00	W628AMP-25
3"	11.75	2.37	9.37	W628AMP-3
4"	14.06	2.64	11.37	W628AMP-4
6"	19.75	4.38	15.38	W628AMP-6

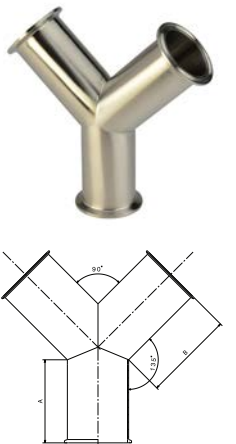
MISCELLANEOUS CLAMP CONFIGURATIONS

CLAMP 180° RETURN BENDS 2UMP



TUBE O.D.	A	B	316L PART NUMBER
1"	3.00	2.50	W62UMP-1
1-1/2"	4.50	3.50	W62UMP-15
2"	6.00	4.50	W62UMP-2
2-1/2"	7.50	5.50	W62UMP-25
3"	9.00	6.50	W62UMP-3
4"	12.00	8.62	W62UMP-4
6"	18.00	12.87	W62UMP-6

CLAMP TRUE WYES 28BMP

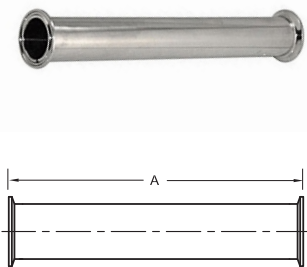


TUBE O.D.	A	B	316L PART NUMBER
1"	2.50	2.94	W628BMP-1
1-1/2"	2.50	2.94	W628BMP-15
2"	3.12	3.75	W628BMP-2
2-1/2"	3.87	4.62	W628BMP-25
3"	4.50	5.37	W628BMP-3
4"	6.00	6.00	W628BMP-4
6"	8.69	9.50	W628BMP-6

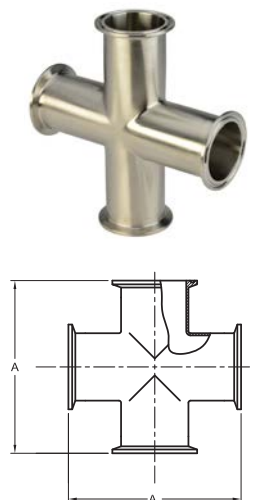
SPOOL ASSEMBLY SPOOL

TUBE O.D.	A (minimum length)	304 PART NUMBER	316L PART NUMBER
1/2"	2.25	--	W6SPOOL*-.50
3/4"	2.25	--	W6SPOOL*-.75
1"	2.25	W4SPOOL*-1	W6SPOOL*-1
1-1/2"	2.25	W4SPOOL*-15	W6SPOOL*-15
2"	2.25	W4SPOOL*-2	W6SPOOL*-2
2-1/2"	2.25	W4SPOOL*-25	W6SPOOL*-25
3"	2.25	W4SPOOL*-3	W6SPOOL*-3
4"	2.25	W4SPOOL*-4	W6SPOOL*-4
6"	3.00	W4SPOOL*-6	W6SPOOL*-6

• Various lengths and end connections available.



CLAMP CROSSES 9MP



TUBE O.D.	A	316L PART NUMBER
1/2"	4.50	W69MP-.50
3/4"	4.75	W69MP-.75
1"	4.75	W69MP-1
1-1/2"	5.50	W69MP-15
2"	7.00	W69MP-2
2-1/2"	7.00	W69MP-25
3"	7.50	W69MP-3
4"	9.00	W69MP-4
6"	12.75	W69MP-6

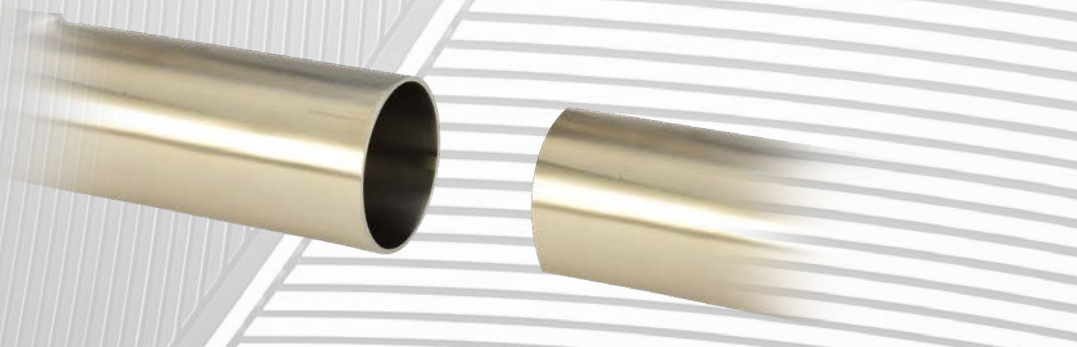
Sanitary POLISHED WELD FITTINGS

Stainless steel sanitary polished weld fittings are used on permanent installations where process piping and equipment can be cleaned in place (CIP) and removal from the system is not required.

FEATURES:

- Size Range: 1/2" through 12"
- Alloys Available: 304 & 316L
- Surface Finish: 32R_a ID/OD
- Wall Thickness:
 - 1/2" through 3" 0.065"
 - 4" & 5" 0.083"
 - 6" through 12" 0.109"
- Certification: 3A 63-04 #3756 (Sanitary Fittings)

Ordering Tip: The "-7" at the end of the Wayland part number indicates a polished #7 finish (32R_a ID/OD).



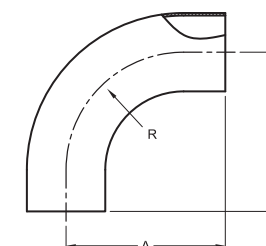
POLISHED WELD FITTINGS

WELD ELBOWS

POLISHED 90° WELD ELBOWS WITH TANGENTS L2S



TUBE O.D.	A	R	BOX QUANTITY	304 PART NUMBER	316L PART NUMBER
1/2"	3.00	1.12	--	--	W6L2S-.50-7
3/4"	3.00	1.12	--	--	W6L2S-.75-7
1"	2.06	1.50	200	W4L2S-1-7	W6L2S-1-7
1-1/2"	2.94	2.25	160	W4L2S-15-7	W6L2S-15-7
2"	4.06	3.00	70	W4L2S-2-7	W6L2S-2-7
2-1/2"	5.19	3.75	30	W4L2S-25-7	W6L2S-25-7
3"	6.31	4.50	20	W4L2S-3-7	W6L2S-3-7
4"	8.31	6.00	8	W4L2S-4-7	W6L2S-4-7
6"	11.25	9.00	2	W4L2S-6-7	W6L2S-6-7

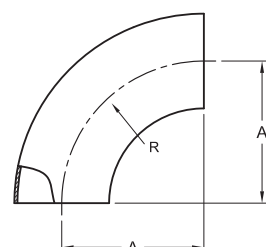


POLISHED
WELD FITTINGS

POLISHED 90° WELD ELBOWS 2WCL



TUBE O.D.	A	R	BOX QUANTITY	304 PART NUMBER	316L PART NUMBER
1/2"	1.12	1.12	--	--	W62WCL-.50-7
3/4"	1.12	1.12	--	--	W62WCL-.75-7
1"	1.50	1.50	200	W42WCL-1-7	W62WCL-1-7
1-1/4"	1.87	1.87	--	--	W62WCL-1.25-7
1-1/2"	2.25	2.25	100	W42WCL-15-7	W62WCL-15-7
2"	3.00	3.00	100	W42WCL-2-7	W62WCL-2-7
2-1/2"	3.75	3.75	50	W42WCL-25-7	W62WCL-25-7
3"	4.50	4.50	32	W42WCL-3-7	W62WCL-3-7
4"	6.00	6.00	12	W42WCL-4-7	W62WCL-4-7
5"	7.50	7.50	6	--	W62WCL-5-7
6"	9.00	9.00	4	W42WCL-6-7	W62WCL-6-7
8"	12.00	12.00	4	W42WCL-8-7	W62WCL-8-7
10"	15.00	15.00	--	--	W62WCL-10-7
12"	18.00	18.00	--	--	W62WCL-12-7

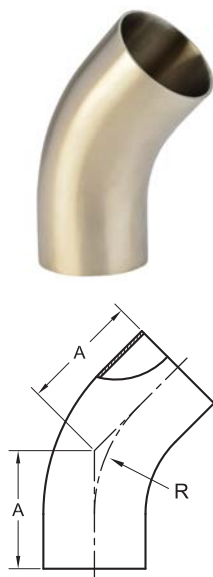


WELD ELBOWS

POLISHED 45° WELD ELBOWS WITH TANGENTS L2KS



TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	2.25	1.12	--	W6L2KS-.50-7
3/4"	2.25	1.12	--	W6L2KS-.75-7
1"	1.19	1.50	W4L2KS-1-7	W6L2KS-1-7
1-1/2"	1.62	2.25	W4L2KS-15-7	W6L2KS-15-7
2"	2.31	3.00	W4L2KS-2-7	W6L2KS-2-7
2-1/2"	3.00	3.75	W4L2KS-25-7	W6L2KS-25-7
3"	3.69	4.50	W4L2KS-3-7	W6L2KS-3-7
4"	4.81	6.00	W4L2KS-4-7	W6L2KS-4-7
6"	6.25	9.00	W4L2KS-6-7	W6L2KS-6-7



POLISHED 45° WELD ELBOWS 2WK



TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	0.47	1.12	--	W62WK-.50-7
3/4"	0.47	1.12	--	W62WK-.75-7
1"	0.62	1.50	W42WK-1-7	W62WK-1-7
1-1/4"	0.78	1.87	--	W62WK-1.25-7
1-1/2"	0.94	2.25	W42WK-15-7	W62WK-15-7
2"	1.25	3.00	W42WK-2-7	W62WK-2-7
2-1/2"	1.56	3.75	W42WK-25-7	W62WK-25-7
3"	1.87	4.50	W42WK-3-7	W62WK-3-7
4"	2.50	6.00	W42WK-4-7	W62WK-4-7
5"	3.12	7.50	--	W62WK-5-7
6"	3.75	9.00	W42WK-6-7	W62WK-6-7
8"	5.00	12.00	W42WK-8-7	W62WK-8-7
10"	6.25	15.00	--	W62WK-10-7
12"	7.50	18.00	--	W62WK-12-7

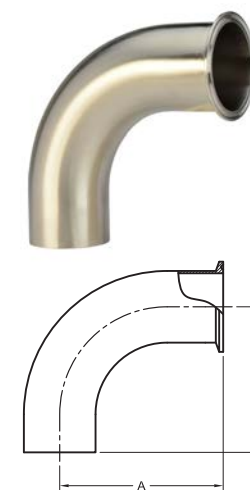


WELD ELBOWS

POLISHED 90° CLAMP X WELD ELBOWS L2CM



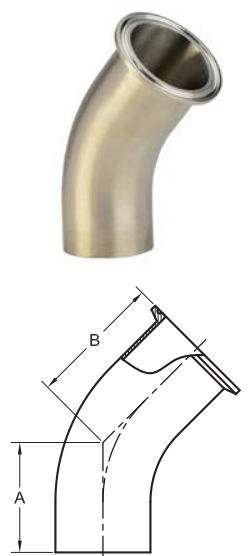
TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	2.56	2.06	W4L2CM-1	W6L2CM-1
1-1/2"	3.44	2.94	W4L2CM-15	W6L2CM-15
2"	4.56	4.06	W4L2CM-2	W6L2CM-2
2-1/2"	5.69	5.19	W4L2CM-25	W6L2CM-25
3"	6.81	6.31	W4L2CM-3	W6L2CM-3
4"	8.94	8.31	W4L2CM-4	W6L2CM-4
6"	12.12	11.25	--	W6L2CM-6



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



SWEEP ELBOWS

POLISHED 90° WELD SWEEP ELBOWS 2SXL



TUBE O.D.	R	A ⁽¹⁾	316L PART NUMBER ⁽²⁾
1/2"	12	16	W62SXL12-.50
3/4"	12	16	W62SXL12-.75
1"	12	16	W62SXL12-1
	24	28	W62SXL24-1
1-1/2"	12	16	W62SXL12-15
	18	22	W62SXL18-15
	24	28	W62SXL24-15
	36	40	W62SXL36-15
2"	12	16	W62SXL12-2
	18	22	W62SXL18-2
	24	28	W62SXL24-2
	36	40	W62SXL36-2
2-1/2"	48	52	W62SXL48-2
	12	16	W62SXL12-25
	18	22	W62SXL18-25
	24	28	W62SXL24-25
3"	36	40	W62SXL36-25
	12	16	W62SXL12-3
	18	22	W62SXL18-3
	24	28	W62SXL24-3
4"	36	40	W62SXL36-3
	48	52	W62SXL48-3
	12	16	W62SXL12-4
	18	22	W62SXL18-4
6"	24	28	W62SXL24-4
	36	40	W62SXL36-4
	48	52	W62SXL48-4
	15	19	W62SXL15-6
6"	24	28	W62SXL24-6
	36	40	W62SXL36-6
	48	52	W62SXL48-6

Other Sweep Elbow Combinations Available:

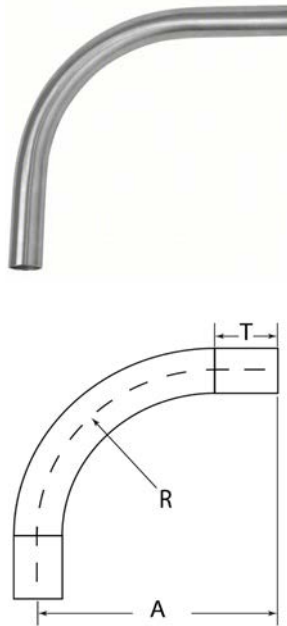
2SXLMP - 90° CLAMP END SWEEP

2KSXL - 45° WELD SWEEP ELBOW

2KSXLMP - 45° CLAMP END SWEEP

(1) Dimensions reflect " Tangents (T), but parts may vary

(2) 304 Polished and 304/316 Unpolished available upon request.



WELD TEES

POLISHED SHORT WELD TEES 7WWW



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.12	2.25	W47WWW-1-7	W67WWW-1-7
1-1/4"	1.56	3.12	--	W67WWW-1.25-7
1-1/2"	1.66	3.31	W47WWW-15-7	W67WWW-15-7
2"	2.06	4.12	W47WWW-2-7	W67WWW-2-7
2-1/2"	2.34	4.69	W47WWW-25-7	W67WWW-25-7
3"	2.59	5.19	W47WWW-3-7	W67WWW-3-7
4"	3.44	6.87	W47WWW-4-7	W67WWW-4-7

WELD RUN X SHORT OUTLET CLAMP TEES 7WWMS

NEW!

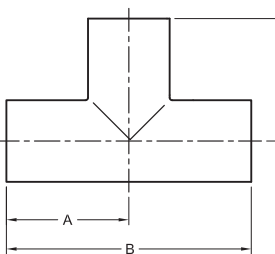
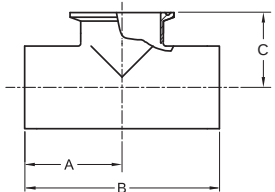
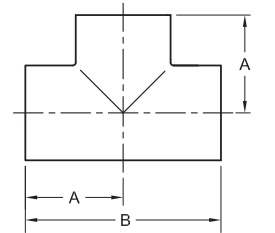


TUBE O.D.	A	B	C	316L PART NUMBER
1"	1.12	2.25	1.125	W67WWMS-1
1-1/2"	1.66	3.31	1.375	W67WWMS-15
2"	2.06	4.12	1.625	W67WWMS-2
2-1/2"	2.34	4.69	1.875	W67WWMS-25
3"	2.59	5.19	2.125	W67WWMS-3
4"	3.44	6.88	2.75	W67WWMS-4

POLISHED LONG WELD TEES 7W

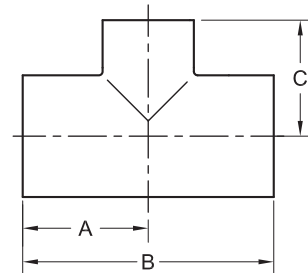


TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1/2"	1.87	3.75	--	W67W-.50-7
3/4"	2.00	4.00	--	W67W-.75-7
1"	1.87	3.75	W47W-1-7	W67W-1-7
1-1/2"	2.25	4.50	W47W-15-7	W67W-15-7
2"	3.00	6.00	W47W-2-7	W67W-2-7
2-1/2"	3.00	6.00	W47W-25-7	W67W-25-7
3"	3.25	6.50	W47W-3-7	W67W-3-7
4"	3.87	7.75	W47W-4-7	W67W-4-7
5"	5.22	10.43	--	W67W-5-7
6"	5.62	11.25	W47W-6-7	W67W-6-7
8"	7.00	14.00	W47W-8-7	W67W-8-7
10"	8.50	17.00	W47W-10-7	W67W-10-7
12"	10.00	20.00	--	W67W-12-7



WELD TEES

POLISHED REDUCING SHORT WELD TEES 7RWWW



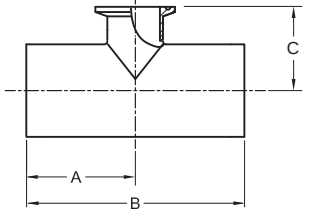
TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.00	4.00	2.00	--	W67RWWW-.75X.50-7
1" X 1/2"	2.12	4.25	2.12	--	W67RWWW-1X.50-7
1" X 3/4"	2.12	4.25	2.12	--	W67RWWW-1X.75-7
1-1/2" X 1/2"	2.37	4.75	2.37	--	W67RWWW-15X.50-7
1-1/2" X 3/4"	2.37	4.75	2.37	--	W67RWWW-15X.75-7
1-1/2" X 1"	1.66	3.31	1.37	W47RWWW-15X1-7	W67RWWW-15X1-7
2" X 1/2"	2.87	5.75	2.63	--	W67RWWW-2X.50-7
2" X 3/4"	2.87	5.75	2.63	--	W67RWWW-2X.75-7
2" X 1"	2.06	4.12	1.62	W47RWWW-2X1-7	W67RWWW-2X1-7
2" X 1-1/2"	2.06	4.12	1.90	W47RWWW-2X15-7	W67RWWW-2X15-7
2-1/2" X 1"	2.34	4.69	1.87	W47RWWW-25X1-7	W67RWWW-25X1-7
2-1/2" X 1-1/2"	2.34	4.69	2.16	W47RWWW-25X15-7	W67RWWW-25X15-7
2-1/2" X 2"	2.34	4.69	2.31	W47RWWW-25X2-7	W67RWWW-25X2-7
3" X 1/2"	2.59	5.19	3.13	--	W67RWWW-3X.50-7
3" X 3/4"	2.59	5.19	3.13	--	W67RWWW-3X.75-7
3" X 1"	2.59	5.19	2.12	W47RWWW-3X1-7	W67RWWW-3X1-7
3" X 1-1/2"	2.59	5.19	2.41	W47RWWW-3X15-7	W67RWWW-3X15-7
3" X 2"	2.59	5.19	2.56	W47RWWW-3X2-7	W67RWWW-3X2-7
3" X 2-1/2"	2.59	5.19	2.59	W47RWWW-3X25-7	W67RWWW-3X25-7
4" X 1/2"	3.44	6.88	3.63	--	W67RWWW-4X.50-7
4" X 3/4"	3.44	6.88	3.63	--	W67RWWW-4X.75-7
4" X 1"	3.44	6.87	2.62	W47RWWW-4X1-7	W67RWWW-4X1-7
4" X 1-1/2"	3.44	6.87	2.91	W47RWWW-4X15-7	W67RWWW-4X15-7
4" X 2"	3.44	6.87	3.06	W47RWWW-4X2-7	W67RWWW-4X2-7
4" X 2-1/2"	3.44	6.87	3.09	W47RWWW-4X25-7	W67RWWW-4X25-7
4" X 3"	3.44	6.87	3.09	W47RWWW-4X3-7	W67RWWW-4X3-7
6" X 1-1/2"	5.62	11.25	3.91	--	W67RWWW-6X15-7
6" X 2"	5.62	11.25	4.50	W47RWWW-6X2-7	W67RWWW-6X2-7
6" X 2-1/2"	5.62	11.25	4.09	--	W67RWWW-6X25-7
6" X 3"	5.62	11.25	4.87	W47RWWW-6X3-7	W67RWWW-6X3-7
6" X 4"	5.62	11.25	5.12	W47RWWW-6X4-7	W67RWWW-6X4-7
8" X 2"	7.00	14.00	6.12	--	W67RWWW-8X2-7
8" X 3"	7.00	14.00	6.12	--	W67RWWW-8X3-7
8" X 4"	7.00	14.00	6.12	--	W67RWWW-8X4-7
8" X 6"	7.00	14.00	6.62	--	W67RWWW-8X6-7
10" X 8"	8.50	17.00	8.50	--	W67RWWW-10X8-7
12" X 10"	10.00	20.00	10.00	--	W67RWWW-12X10-7

NEW!
NEW!

WELD TEES

WELD RUN X SHORT OUTLET CLAMP REDUCING TEES 7RWWMS

NEW!



TUBE O.D.	A	B	C	316L PART NUMBER
1-1/2" X 1"	1.66	3.31	1.37	W67RWWMS-15X1
2" X 1"	2.06	4.12	1.62	W67RWWMS-2X1
2" X 1-1/2"	2.06	4.12	1.62	W67RWWMS-2X15
2-1/2" X 2"	2.34	4.69	1.87	W67RWWMS-25X2
3" X 1-1/2"	2.59	5.19	2.12	W67RWWMS-3X15
3" X 2"	2.59	5.19	2.12	W67RWWMS-3X2
4" X 1-1/2"	3.44	6.87	2.62	W67RWWMS-4X15
4" X 2"	3.44	6.87	2.62	W67RWWMS-4X2
4" X 3"	3.44	6.87	2.62	W67RWWMS-4X3

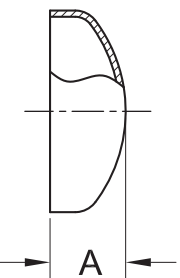
WELD CAPS

POLISHED DOME CAPS 16W



TUBE O.D.	A	316L PART NUMBER
1/2"	0.25	W616W-.50-7
3/4"	0.31	W616W-.75-7
1"	0.37	W616W-1-7
1-1/2"	0.56	W616W-15-7
2"	0.75	W616W-2-7
2-1/2"	1.04	W616W-25-7
3"	1.25	W616W-3-7
4"	1.50	W616W-4-7
6"	1.97	W616W-6-7
8"	2.64	W616W-8-7
10"	3.23	W616W-10-7
12"	3.86	W616W-12-7

• Polished dome caps are mirror finished



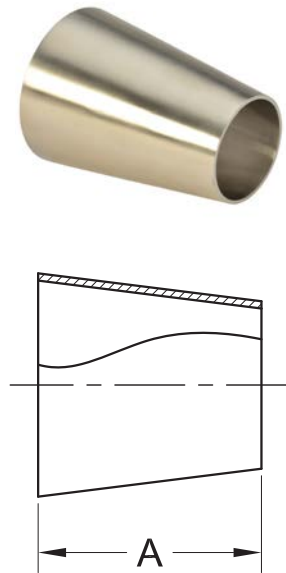
WELD REDUCERS

POLISHED CONCENTRIC WELD REDUCERS 31W



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	1.00	--	W631W-.75X.50-7
1" X 1/2"	2.00	--	W631W-1X.50-7
1" X 3/4"	1.00	--	W631W-1X.75-7
1-1/2" X 1/2"	4.00	--	W631W-15X.50-7
1-1/2" X 3/4"	3.00	--	W631W-15X.75-7
1-1/2" X 1"	2.00	W431W-15X1-7	W631W-15X1-7
1-1/2" X 1-1/4"	1.00	--	W631W-15X1.25-7
2" X 1/2"	6.00	--	W631W-2X.50-7
2" X 3/4"	5.00	--	W631W-2X.75-7
2" X 1"	4.00	W431W-2X1-7	W631W-2X1-7
2" X 1-1/2"	2.00	W431W-2X15-7	W631W-2X15-7
2-1/2" X 1"	6.00	W431W-25X1-7	W631W-25X1-7
2-1/2" X 1-1/2"	4.00	W431W-25X15-7	W631W-25X15-7
2-1/2" X 2"	2.00	W431W-25X2-7	W631W-25X2-7
3" X 1"	8.00	W431W-3X1-7	W631W-3X1-7
3" X 1-1/2"	6.00	W431W-3X15-7	W631W-3X15-7
3" X 2"	4.00	W431W-3X2-7	W631W-3X2-7
3" X 2-1/2"	2.00	W431W-3X25-7	W631W-3X25-7
4" X 1"	12.00	W431W-4X1-7	W631W-4X1-7
4" X 1-1/2"	10.00	W431W-4X15-7	W631W-4X15-7
4" X 2"	8.00	W431W-4X2-7	W631W-4X2-7
4" X 2-1/2"	6.00	W431W-4X25-7	W631W-4X25-7
4" X 3"	4.00	W431W-4X3-7	W631W-4X3-7
5" X 4"	5.00	--	W631W-5X4-7
6" X 2"	5.50	W431W-6X2-7	W631W-6X2-7
6" X 2-1/2"	5.50	--	W631W-6X25-7
6" X 3"	5.50	W431W-6X3-7	W631W-6X3-7
6" X 4"	5.50	W431W-6X4-7	W631W-6X4-7
8" X 3"	6.00	--	W631W-8X3-7
8" X 4"	6.00	W431W-8X4-7	W631W-8X4-7
8" X 6"	6.00	W431W-8X6-7	W631W-8X6-7
10" X 6"	7.00	W431W-10X6-7	W631W-10X6-7
10" X 8"	7.00	W431W-10X8-7	W631W-10X8-7
12" X 6"	8.00	--	W631W-12X6-7
12" X 8"	8.00	--	W631W-12X8-7
12" X 10"	8.00	--	W631W-12X10-7

NEW!



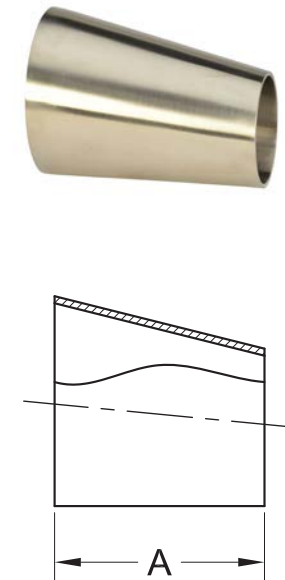
WELD REDUCERS

POLISHED ECCENTRIC WELD REDUCERS 32W



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	1.00	--	W632W-.75X.50-7
1" X 1/2"	2.00	--	W632W-1X.50-7
1" X 3/4"	1.00	--	W632W-1X.75-7
1-1/2" X 1/2"	4.00	--	W632W-15X.50-7
1-1/2" X 3/4"	3.00	--	W632W-15X.75-7
1-1/2" X 1"	2.00	W432W-15X1-7	W632W-15X1-7
2" X 1/2"	6.00	--	W632W-2X.50-7
2" X 3/4"	5.00	--	W632W-2X.75-7
2" X 1"	4.00	W432W-2X1-7	W632W-2X1-7
2" X 1-1/2"	2.00	W432W-2X15-7	W632W-2X15-7
2-1/2" X 1"	6.00	W432W-25X1-7	W632W-25X1-7
2-1/2" X 1-1/2"	4.00	W432W-25X15-7	W632W-25X15-7
2-1/2" X 2"	2.00	W432W-25X2-7	W632W-25X2-7
3" X 1"	8.00	W432W-3X1-7	W632W-3X1-7
3" X 1-1/2"	6.00	W432W-3X15-7	W632W-3X15-7
3" X 2"	4.00	W432W-3X2-7	W632W-3X2-7
3" X 2-1/2"	2.00	W432W-3X25-7	W632W-3X25-7
4" X 1"	12.00	W432W-4X1-7	W632W-4X1-7
4" X 1-1/2"	10.00	W432W-4X15-7	W632W-4X15-7
4" X 2"	8.00	W432W-4X2-7	W632W-4X2-7
4" X 2-1/2"	6.00	W432W-4X25-7	W632W-4X25-7
4" X 3"	4.00	W432W-4X3-7	W632W-4X3-7
5" X 4"	5.00	--	W632W-5X4-7
6" X 2"	5.50	W432W-6X2-7	W632W-6X2-7
6" X 2-1/2"	5.50	--	W632W-6X25-7
6" X 3"	5.50	W432W-6X3-7	W632W-6X3-7
6" X 4"	5.50	W432W-6X4-7	W632W-6X4-7
8" X 3"	6.00	--	W632W-8X3-7
8" X 4"	6.00	W432W-8X4-7	W632W-8X4-7
8" X 6"	6.00	W432W-8X6-7	W632W-8X6-7
10" X 6"	7.00	--	W632W-10X6-7
10" X 8"	7.00	--	W632W-10X8-7
12" X 6"	8.00	--	W632W-12X6-7
12" X 8"	8.00	--	W632W-12X8-7
12" X 10"	8.00	--	W632W-12X10-7

NEW!



WELD ADAPTERS

WELD HOSE ADAPTERS 14WHR

TUBE O.D.	A	316L PART NUMBER
1/2"	1.50	W614WHR-.50
3/4"	1.50	W614WHR-.75
1"	1.69	W614WHR-1
1-1/2"	1.69	W614WHR-15
2"	2.31	W614WHR-2
2-1/2"	2.00	W614WHR-25
3"	3.09	W614WHR-3
4"	3.41	W614WHR-4

MALE NPT X WELD END ADAPTERS - MACHINE FINISH 19WB

TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1/2"	1.62	--	W619WB-.50
3/4"	1.62	--	W619WB-.75
1"	1.75	W419WB-1	W619WB-1
1-1/2"	1.75	W419WB-15	W619WB-15
2"	1.75	W419WB-2	W619WB-2
2-1/2"	2.31	W419WB-25	W619WB-25
3"	2.50	W419WB-3	W619WB-3
4"	2.56	W419WB-4	W619WB-4
6"	2.79	--	W619WB-6

• Machine Finished to 32R_a

FEMALE NPT X WELD END ADAPTERS - MACHINE FINISH 22WB

TUBE O.D.	A	316L PART NUMBER
1/2"	1.25	W622WB-.50
3/4"	1.62	W622WB-.75
1"	1.75	W622WB-1
1-1/2"	1.75	W622WB-15
2"	1.81	W622WB-2
2-1/2"	2.31	W622WB-25
3"	2.50	W622WB-3
4"	2.50	W622WB-4
6"	3.25	W622WB-6

• Machine Finished to 32R_a

MISCELLANEOUS WELD CONFIGURATIONS

POLISHED WELD LATERALS 28WA

TUBE O.D.	A	B	C	316L PART NUMBER
1"	6.00	1.00	5.00	W628WA-1-7
1-1/2"	7.37	1.19	6.19	W628WA-15-7
2"	8.75	1.62	7.12	W628WA-2-7
2-1/2"	10.00	1.50	8.50	W628WA-25-7
3"	10.75	1.87	8.87	W628WA-3-7
4"	12.81	2.01	10.75	W628WA-4-7
6"	18.00	3.50	14.50	W628WA-6-7

POLISHED WELD TRUE WYES 28WB

TUBE O.D.	A	B	316L PART NUMBER
1"	2.00	2.44	W628WB-1-7
1-1/2"	2.00	2.44	W628WB-15-7
2"	2.62	3.25	W628WB-2-7
2-1/2"	3.37	4.12	W628WB-25-7
3"	4.00	4.87	W628WB-3-7
4"	5.37	5.60	W628WB-4-7
6"	7.81	8.62	W628WB-6-7

POLISHED WELD CROSSES 9WWWW

TUBE O.D.	A	316L PART NUMBER
1/2"	1.50	W69WWWWW-.50-7
3/4"	2.25	W69WWWWW-.75-7
1"	2.25	W69WWWWW-1-7
1-1/2"	3.31	W69WWWWW-15-7
2"	4.12	W69WWWWW-2-7
2-1/2"	4.69	W69WWWWW-25-7
3"	5.19	W69WWWWW-3-7
4"	6.87	W69WWWWW-4-7
6"	11.00	W69WWWWW-6-7

POLISHED WELD 180° RETURN BENDS 2WU

TUBE O.D.	A	B	316L PART NUMBER
1"	3.00	2.00	W62WU-1-7
1-1/2"	4.50	3.00	W62WU-15-7
2"	6.00	4.00	W62WU-2-7
2-1/2"	7.50	5.00	W62WU-25-7
3"	9.00	6.00	W62WU-3-7
4"	12.00	8.00	W62WU-4-7
6"	18.00	12.00	W62WU-6-7

• One Piece Construction

UNPOLISHED WELD FITTINGS

Unpolished stainless steel weld fittings are used on permanent installations where sanitary surface finish is not required and where process piping can be cleaned in place.

FEATURES:

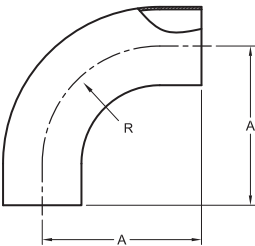
- Size Range: 1/2" through 12"
- Alloys Available: 304 & 316L
- Surface Finish: Annealed, Pickled, or Tumbled Mill Finish ID/OD
- Wall Thickness:
 - 1/2" through 3" 0.065"
 - 4" & 5" 0.083"
 - 6" through 12" 0.109"

Ordering Tip: The "-1" at the end of the Wayland part number indicates an unpolished finish

UNPOLISHED WELD ELBOWS

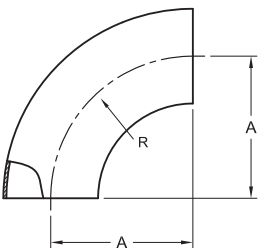
UNPOLISHED 90° WELD ELBOWS WITH TANGENTS L2S

TUBE O.D.	A	R	BOX QUANTITY	304 PART NUMBER	316L PART NUMBER
1/2"	3.00	1.12	--	--	W6L2S-.50-1
3/4"	3.00	1.12	--	--	W6L2S-.75-1
1"	2.06	1.50	200	W4L2S-1-1	W6L2S-1-1
1-1/2"	2.94	2.25	160	W4L2S-15-1	W6L2S-15-1
2"	4.06	3.00	70	W4L2S-2-1	W6L2S-2-1
2-1/2"	5.19	3.75	30	W4L2S-25-1	W6L2S-25-1
3"	6.31	4.50	20	W4L2S-3-1	W6L2S-3-1
4"	8.31	6.00	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"	1.12	1.12	--	--	W62WCL-.50-1
3/4"	1.12	1.12	--	--	W62WCL-.75-1
1"	1.50	1.50	200	W42WCL-1-1	W62WCL-1-1
1-1/2"	2.25	2.25	100	W42WCL-15-1	W62WCL-15-1
2"	3.00	3.00	100	W42WCL-2-1	W62WCL-2-1
2-1/2"	3.75	3.75	50	W42WCL-25-1	W62WCL-25-1
3"	4.50	4.50	32	W42WCL-3-1	W62WCL-3-1
4"	6.00	6.00	12	W42WCL-4-1	W62WCL-4-1
6"	9.00	9.00	4	W42WCL-6-1	W62WCL-6-1
8"	12.00	12.00	4	W42WCL-8-1	W62WCL-8-1
10"	15.00	15.00	--	W42WCL-10-1	W62WCL-10-1
12"	18.00	18.00	--	W42WCL-12-1	W62WCL-12-1



UNPOLISHED WELD ELBOWS

UNPOLISHED 45° WELD ELBOWS WITH TANGENTS L2KS

TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	2.25	1.12	--	W6L2KS-.50-1
3/4"	2.25	1.12	--	W6L2KS-.75-1
1"	1.19	1.50	W4L2KS-1-1	W6L2KS-1-1
1-1/2"	1.62	2.25	W4L2KS-15-1	W6L2KS-15-1
2"	2.31	3.00	W4L2KS-2-1	W6L2KS-2-1
2-1/2"	3.00	3.75	W4L2KS-25-1	W6L2KS-25-1
3"	3.69	4.50	W4L2KS-3-1	W6L2KS-3-1
4"	4.81	6.00	W4L2KS-4-1	W6L2KS-4-1

UNPOLISHED 45° WELD ELBOWS 2WK

TUBE O.D.	A	R	304 PART NUMBER	316L PART NUMBER
1/2"	0.47	1.12	--	W62WK-.50-1
3/4"	0.47	1.12	--	W62WK-.75-1
1"	0.62	1.50	W42WK-1-1	W62WK-1-1
1-1/2"	0.94	2.25	W42WK-15-1	W62WK-15-1
2"	1.25	3.00	W42WK-2-1	W62WK-2-1
2-1/2"	1.56	3.75	W42WK-25-1	W62WK-25-1
3"	1.87	4.50	W42WK-3-1	W62WK-3-1
4"	2.50	6.00	W42WK-4-1	W62WK-4-1
6"	3.75	9.00	W42WK-6-1	W62WK-6-1
8"	5.00	12.00	W42WK-8-1	W62WK-8-1
10"	6.25	15.00	W42WK-10-1	W62WK-10-1
12"	7.50	18.00	W42WK-12-1	W62WK-12-1

UNPOLISHED WELD TEES

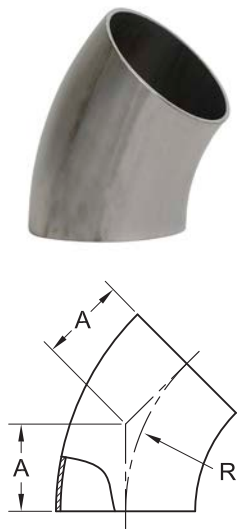
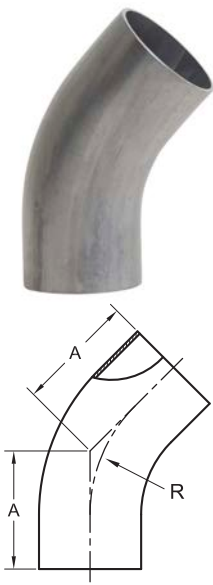
UNPOLISHED SHORT WELD TEES 7WWW

TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.12	2.25	W47WWW-1-1	W67WWW-1-1
1-1/2"	1.66	3.31	W47WWW-15-1	W67WWW-15-1
2"	2.06	4.12	W47WWW-2-1	W67WWW-2-1
2-1/2"	2.34	4.69	W47WWW-25-1	W67WWW-25-1
3"	2.59	5.19	W47WWW-3-1	W67WWW-3-1
4"	3.44	6.87	W47WWW-4-1	W67WWW-4-1

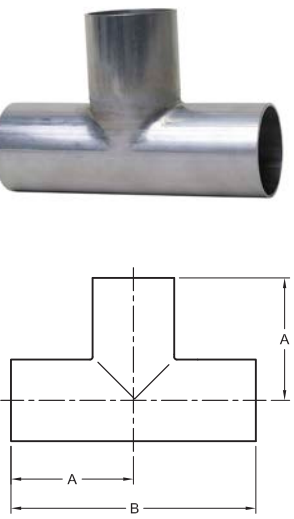
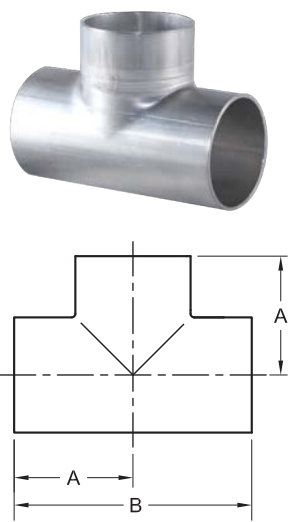
UNPOLISHED LONG WELD TEES 7W

TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1/2"	1.87	3.75	--	W67W-.50-1
3/4"	2.00	4.00	--	W67W-.75-1
1"	1.87	3.75	W47W-1-1	W67W-1-1
1-1/2"	2.25	4.50	W47W-15-1	W67W-15-1
2"	3.00	6.00	W47W-2-1	W67W-2-1
2-1/2"	3.00	6.00	W47W-25-1	W67W-25-1
3"	3.25	6.50	W47W-3-1	W67W-3-1
4"	3.87	7.75	W47W-4-1	W67W-4-1
6"	5.62	11.25	W47W-6-1	W67W-6-1
8"	7.00	14.00	W47W-8-1	W67W-8-1

UNPOLISHED
WELD FITTINGS

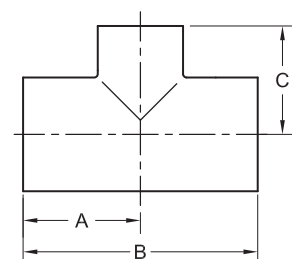


UNPOLISHED
WELD FITTINGS



UNPOLISHED WELD TEES

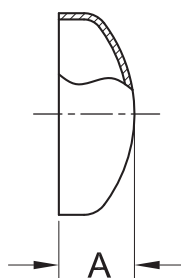
UNPOLISHED REDUCING SHORT WELD TEES 7RWWW



TUBE O.D.	A	B	C	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	2.00	4.00	2.00	--	W67RWWW-.75X.50-1
1-1/2" X 1"	1.66	3.31	1.37	W47RWWW-15X1-1	W67RWWW-15X1-1
2" X 1"	2.06	4.12	1.62	W47RWWW-2X1-1	W67RWWW-2X1-1
2" X 1-1/2"	2.06	4.12	1.90	W47RWWW-2X15-1	W67RWWW-2X15-1
2-1/2" X 1"	2.34	4.69	1.87	W47RWWW-25X1-1	W67RWWW-25X1-1
2-1/2" X 1-1/2"	2.34	4.69	2.16	W47RWWW-25X15-1	W67RWWW-25X15-1
2-1/2" X 2"	2.34	4.69	2.31	W47RWWW-25X2-1	W67RWWW-25X2-1
3" X 1"	2.59	5.19	2.12	W47RWWW-3X1-1	W67RWWW-3X1-1
3" X 1-1/2"	2.59	5.19	2.40	W47RWWW-3X15-1	W67RWWW-3X15-1
3" X 2"	2.59	5.19	2.56	W47RWWW-3X2-1	W67RWWW-3X2-1
3" X 2-1/2"	2.59	5.19	2.59	W47RWWW-3X25-1	W67RWWW-3X25-1
4" X 1"	3.44	6.87	2.62	W47RWWW-4X1-1	W67RWWW-4X1-1
4" X 1-1/2"	3.44	6.87	2.91	W47RWWW-4X15-1	W67RWWW-4X15-1
4" X 2"	3.44	6.87	3.06	W47RWWW-4X2-1	W67RWWW-4X2-1
4" X 2-1/2"	3.44	6.87	3.09	W47RWWW-4X25-1	W67RWWW-4X25-1
4" X 3"	3.44	6.87	3.09	W47RWWW-4X3-1	W67RWWW-4X3-1
6" X 2"	5.62	11.25	4.50	W47RWWW-6X2-1	W67RWWW-6X2-1
6" X 3"	5.62	11.25	4.87	W47RWWW-6X3-1	W67RWWW-6X3-1
6" X 4"	5.62	11.25	5.12	W47RWWW-6X4-1	W67RWWW-6X4-1

UNPOLISHED DOME CAPS

UNPOLISHED DOME CAPS 16W

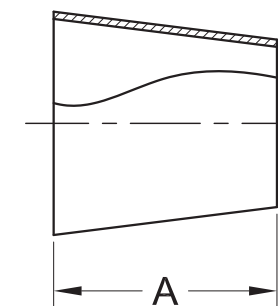


TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1/2"	0.25	--	W616W-.50-1
3/4"	0.31	--	W616W-.75-1
1"	0.37	W416W-1-1	W616W-1-1
1-1/2"	0.56	W416W-15-1	W616W-15-1
2"	0.75	W416W-2-1	W616W-2-1
2-1/2"	1.04	W416W-25-1	W616W-25-1
3"	1.25	W416W-3-1	W616W-3-1
4"	1.50	W416W-4-1	W616W-4-1
6"	1.97	W416W-6-1	W616W-6-1
8"	2.64	W416W-8-1	W616W-8-1
10"	3.23	W416W-10-1	W616W-10-1
12"	3.86	W416W-12-1	W616W-12-1

UNPOLISHED WELD REDUCERS

UNPOLISHED CONCENTRIC WELD REDUCERS 31W

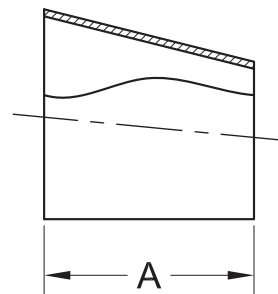
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	1.00	--	W631W-.75X.50-1
1" X 1/2"	2.00	--	W631W-1X.50-1
1" X 3/4"	1.00	--	W631W-1X.75-1
1-1/2" X 1/2"	4.00	--	W631W-15X.50-1
1-1/2" X 3/4"	3.00	--	W631W-15X.75-1
1-1/2" X 1"	2.00	W431W-15X1-1	W631W-15X1-1
2" X 1"	4.00	W431W-2X1-1	W631W-2X1-1
2" X 1-1/2"	2.00	W431W-2X15-1	W631W-2X15-1
2-1/2" X 1-1/2"	4.00	W431W-25X15-1	W631W-25X15-1
2-1/2" X 2"	2.00	W431W-25X2-1	W631W-25X2-1
3" X 1"	8.00	W431W-3X1-1	W631W-3X1-1
3" X 1-1/2"	6.00	W431W-3X15-1	W631W-3X15-1
3" X 2"	4.00	W431W-3X2-1	W631W-3X2-1
3" X 2-1/2"	2.00	W431W-3X25-1	W631W-3X25-1
4" X 1"	12.00	W431W-4X1-1	W631W-4X1-1
4" X 1-1/2"	10.00	W431W-4X15-1	W631W-4X15-1
4" X 2"	8.00	W431W-4X2-1	W631W-4X2-1
4" X 2-1/2"	6.00	W431W-4X25-1	W631W-4X25-1
4" X 3"	4.00	W431W-4X3-1	W631W-4X3-1
6" X 2"	5.50	W431W-6X2-1	W631W-6X2-1
6" X 3"	5.50	W431W-6X3-1	W631W-6X3-1
6" X 4"	5.50	W431W-6X4-1	W631W-6X4-1
8" X 4"	6.00	W431W-8X4-1	W631W-8X4-1
8" X 6"	6.00	W431W-8X6-1	W631W-8X6-1



UNPOLISHED WELD REDUCERS

UNPOLISHED ECCENTRIC WELD REDUCERS 32W

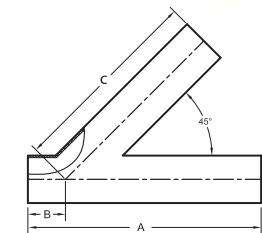
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
3/4" X 1/2"	1.00	--	W632W-.75X.50-1
1" X 1/2"	2.00	--	W632W-1X.50-1
1" X 3/4"	1.00	--	W632W-1X.75-1
1-1/2" X 1/2"	4.00	--	W632W-15X.50-1
1-1/2" X 3/4"	3.00	--	W632W-15X.75-1
1-1/2" X 1"	2.00	W432W-15X1-1	W632W-15X1-1
2" X 1"	4.00	W432W-2X1-1	W632W-2X1-1
2" X 1-1/2"	2.00	W432W-2X15-1	W632W-2X15-1
2-1/2" X 1-1/2"	4.00	W432W-25X15-1	W632W-25X15-1
2-1/2" X 2"	2.00	W432W-25X2-1	W632W-25X2-1
3" X 1"	8.00	W432W-3X1-1	W632W-3X1-1
3" X 1-1/2"	6.00	W432W-3X15-1	W632W-3X15-1
3" X 2"	4.00	W432W-3X2-1	W632W-3X2-1
3" X 2-1/2"	2.00	W432W-3X25-1	W632W-3X25-1
4" X 1"	12.00	W432W-4X1-1	W632W-4X1-1
4" X 1-1/2"	10.00	W432W-4X15-1	W632W-4X15-1
4" X 2"	8.00	W432W-4X2-1	W632W-4X2-1
4" X 2-1/2"	6.00	W432W-4X25-1	W632W-4X25-1
4" X 3"	4.00	W432W-4X3-1	W632W-4X3-1
6" X 2"	5.50	W432W-6X2-1	W632W-6X2-1
6" X 3"	5.50	W432W-6X3-1	W632W-6X3-1
6" X 4"	5.50	W432W-6X4-1	W632W-6X4-1
8" X 4"	6.00	W432W-8X4-1	W632W-8X4-1
8" X 6"	6.00	W432W-8X6-1	W632W-8X6-1



MISCELLANEOUS WELD CONFIGURATIONS

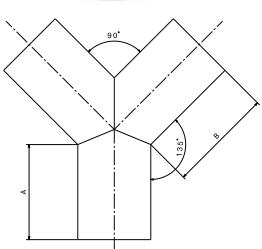
UNPOLISHED WELD LATERALS 28WA

TUBE O.D.	A	B	C	316L PART NUMBER
1"	6.00	1.00	5.00	W628WA-1-1
1-1/2"	7.37	1.19	6.19	W628WA-15-1
2"	8.75	1.62	7.12	W628WA-2-1
2-1/2"	10.00	1.50	8.50	W628WA-25-1
3"	10.75	1.87	8.87	W628WA-3-1
4"	12.81	2.01	10.75	W628WA-4-1
6"	16.50	4.00	14.75	W628WA-6-1



UNPOLISHED WELD TRUE WYES 28WB

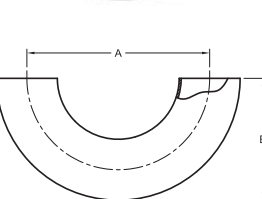
TUBE O.D.	A	B	C	D	316L PART NUMBER
1"	2.00	2.44	2.21	2.64	W628WB-1-1
1-1/2"	2.00	2.44	2.31	2.75	W628WB-15-1
2"	2.62	3.25	3.04	3.66	W628WB-2-1
2-1/2"	3.37	4.12	3.89	4.64	W628WB-25-1
3"	4.00	4.87	4.62	5.50	W628WB-3-1
4"	5.37	5.37	6.20	6.204	W628WB-4-1



UNPOLISHED WELD 180° RETURN BENDS 2WU

TUBE O.D.	A	B	316L PART NUMBER
1"	3.00	2.00	W62WU-1-1
1-1/2"	4.50	3.00	W62WU-15-1
2"	6.00	4.00	W62WU-2-1
2-1/2"	7.50	5.00	W62WU-25-1
3"	9.00	6.00	W62WU-3-1
4"	12.00	8.00	W62WU-4-1

• One Piece Construction



Sanitary PIPE SIZE FITTINGS

Schedule pipe size sanitary clamp and weld fittings are used with stainless steel welded and seamless piping systems where the application requires heavier wall thickness due to higher pressures or abrasive media while still having the ability to assemble or disassemble easily for maintenance or cleaning of the system.

FEATURES:

- Size Range: 1/2" through 8"
- Alloys Available: 304 & 316L
- Surface Finish: 32 Ra ID/OD
- Wall Thickness:
 - 1/2" through 3" 0.065"
 - 4" 0.083"
 - 6" & 8" 0.109"
- Certification: 3A 63-04 #3756 (Sanitary Fittings)

STAINLESS STEEL PIPE SCHEDULES - SIZING CHART

NOMINAL PIPE SIZE	O. D.	NOMINAL WALL THICKNESS		
		SCH 5S	SCH 10S	SCH 40S
1/2"	.840"	.065"	.083"	.109"
3/4"	1.05"	.065"	.083"	.113"
1"	1.31"	.065"	.109"	.133"
1-1/4"	1.66"	.065"	.109"	.140"
1-1/2"	1.90"	.065"	.109"	.145"
2"	2.37"	.065"	.109"	.154"
2-1/2"	2.87"	.083"	.120"	.203"
3"	3.50"	.083"	.120"	.216"
4"	4.50"	.083"	.120"	.237"
5"	5.56"	.109"	.134"	.258"
6"	6.62"	.109"	.134"	.280"
8"	8.62"	.109"	.148"	.322"
10"	10.75"	.134"	.165"	.365"
12"	12.75"	.156"	.180"	.375"



PIPE SIZE FITTINGS

PIPE SIZE CLAMPS

SCHEDULE 5S, 10S & 40S SINGLE PIN CLAMPS 13MHV

PIPE SIZE	A	SERVICE PRESSURE RATING @ 70° F*	304 PART NUMBER
1"	2.12	500	W413MHV-1
1-1/2"	2.65	450	W413MHV-15
2"	3.18	400	W413MHV-2
2-1/2"	3.72	350	W413MHV-25
3"	4.26	250	W413MHV-3
4"	5.26	150	W413MHV-4
6"	7.50	100	W413MHV-6
8"	9.40	75	W413MHV-8

* Wing nut tightened to 25 in. lbs. torque

1" through 2-1/2" pipe size clamps use tube size 13MHM clamps half size larger



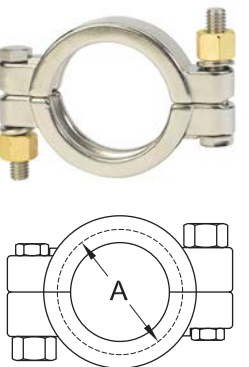
PIPE SIZE FITTINGS

SCHEDULE 5S, 10S & 40S HEAVY DUTY BOLTED CLAMPS 13MHPV

PIPE SIZE	A	SERVICE PRESSURE RATING @ 70° F*	304 PART NUMBER
1"	2.05	750	W413MHPV-1
1-1/2"	2.58	500	W413MHPV-15
2"	3.11	500	W413MHPV-2
2-1/2"	3.46	500	W413MHPV-25

* All nuts tightened to 20 ft. lbs. of torque

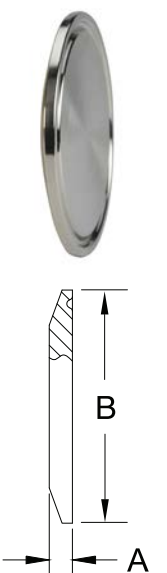
1" through 2-1/2" pipe size clamps use tube size 13MHP clamps half size larger



PIPE SIZE CAPS

SCHEDULE 5S, 10S & 40S SOLID END CAPS 16AMV

PIPE SIZE	A	B	316L PART NUMBER
1"	0.25	1.98	W616AMV-1
1-1/2"	0.25	2.52	W616AMV-15
2"	0.25	3.05	W616AMV-2
2-1/2"	0.25	3.58	W616AMV-25
3"	0.31	4.12	W616AMV-3
4"	0.31	5.12	W616AMV-4
6"	0.44	7.19	W616AMV-6
8"	0.44	9.20	W616AMV-8

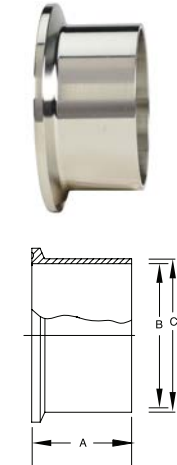
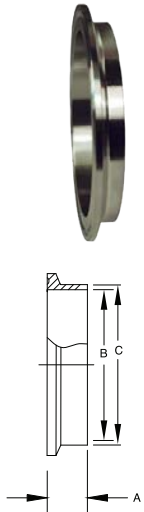


PIPE SIZE FERRULES

SCHEDULE 5S SHORT WELD FERRULES 14WMV



PIPE SIZE	A	B	C	316L PART NUMBER
1"	0.50	1.18	1.31	W614WMV-1
1-1/2"	0.50	1.77	1.90	W614WMV-15
2"	0.50	2.24	2.37	W614WMV-2
2-1/2"	0.50	2.71	2.87	W614WMV-25
3"	0.50	3.33	3.50	W614WMV-3
4"	0.62	4.33	4.50	W614WMV-4
6"	0.87	6.41	6.62	W614WMV-6
8"	0.87	8.41	8.62	W614WMV-8



SCHEDULE 5S LONG WELD FERRULES 14AM7V



PIPE SIZE	A	B	C	316L PART NUMBER
1"	1.12	1.18	1.31	W614AM7V-1
1-1/2"	1.12	1.77	1.90	W614AM7V-15
2"	1.12	2.24	2.37	W614AM7V-2
2-1/2"	1.12	2.71	2.87	W614AM7V-25
3"	1.12	3.33	3.50	W614AM7V-3
4"	1.12	4.33	4.50	W614AM7V-4
6"	1.50	6.41	6.62	W614AM7V-6

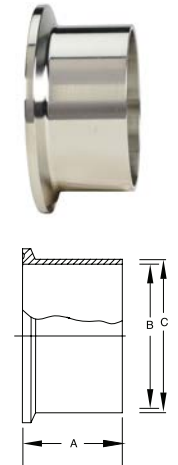
PIPE SIZE FERRULES

SCHEDULE 10S LONG WELD FERRULES 14AM7X



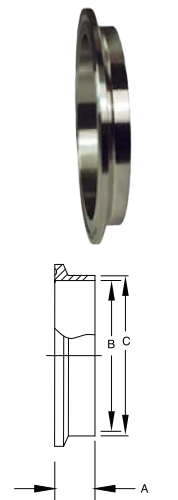
PIPE SIZE	A	B	C	316L PART NUMBER
1"	1.12	1.10	1.31	W614AM7X-1
1-1/2"	1.12	1.68	1.90	W614AM7X-15
2"	1.12	2.16	2.37	W614AM7X-2
2-1/2"	1.12	2.63	2.87	W614AM7X-25
3"	1.12	3.26	3.50	W614AM7X-3
4"	1.12	4.26	4.50	W614AM7X-4
6"	1.50	6.35	6.63	W614AM7X-6

NEW!



SCHEDULE 40S SHORT WELD FERRULES 14WMZ

PIPE SIZE	A	B	C	316L PART NUMBER
1"	0.50	1.05	1.315	W614WMZ-1
1-1/2"	0.50	1.61	1.900	W614WMZ-15
2"	0.50	2.07	2.375	W614WMZ-2
2-1/2"	0.50	2.47	2.875	W614WMZ-25
3"	0.50	3.07	3.500	W614WMZ-3
4"	0.62	4.03	4.500	W614WMZ-4



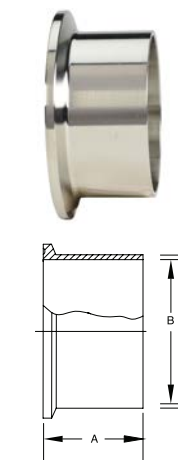
SCHEDULE 10S SHORT WELD FERRULES 14WMX



PIPE SIZE	A	B	C	316L PART NUMBER
1"	0.50	1.10	1.31	W614WMX-1
1-1/2"	0.50	1.68	1.90	W614WMX-15
2"	0.50	2.16	2.37	W614WMX-2
2-1/2"	0.50	2.63	2.87	W614WMX-25
3"	0.50	3.26	3.50	W614WMX-3
4"	0.62	4.26	4.50	W614WMX-4
6"	0.87	6.36	6.62	W614WMX-6
8"	0.87	8.33	8.62	W614WMX-8

SCHEDULE 40S LONG WELD FERRULES 14AM7Z

PIPE SIZE	A	B	C	316L PART NUMBER
1"	1.12	1.05	1.31	W614AM7Z-1
1-1/2"	1.12	1.61	1.90	W614AM7Z-15
2"	1.12	2.07	2.37	W614AM7Z-2
2-1/2"	1.12	2.47	2.87	W614AM7Z-25
3"	1.12	3.07	3.50	W614AM7Z-3
4"	1.12	4.03	4.50	W614AM7Z-4

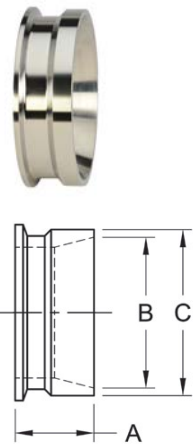


PIPE SIZE ADAPTERS

CLAMP X SCHEDULE 5S WELD ADAPTERS 19MPV



PIPE SIZE	A	B	C	304 PART NUMBER
1/2"	1.12	0.71	0.84	W419MPV-.50
3/4"	1.12	0.92	1.05	W419MPV-.75
1"	1.12	1.18	1.31	W419MPV-1
1-1/2"	1.12	1.77	1.90	W419MPV-15
2"	1.12	2.24	2.37	W419MPV-2
2-1/2"	1.12	2.71	2.87	W419MPV-25
3"	1.12	3.33	3.50	W419MPV-3
4"	1.12	4.33	4.50	W419MPV-4

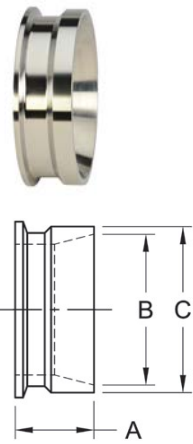


PIPE SIZE
FITTINGS

CLAMP X SCHEDULE 10S WELD ADAPTERS 19MPX

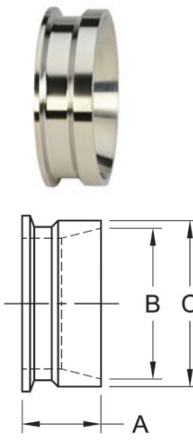


PIPE SIZE	A	B	C	316L PART NUMBER
1/2"	1.50	0.67	0.84	W619MPX-.50
3/4"	1.50	0.88	1.05	W619MPX-.75
1"	1.12	1.10	1.31	W619MPX-1
1-1/2"	1.12	1.68	1.90	W619MPX-15
2"	1.12	2.16	2.37	W619MPX-2
2-1/2"	1.12	2.63	2.87	W619MPX-25
3"	1.12	3.26	3.50	W619MPX-3
4"	1.12	4.26	4.50	W619MPX-4
6"	1.12	6.36	6.63	W619MPX-6



CLAMP X SCHEDULE 40S WELD ADAPTERS 19MPXLI

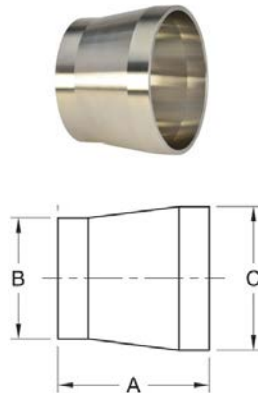
PIPE SIZE	A	B	C	316L PART NUMBER
1"	1.12	1.05	1.31	W619MPXLI-1
1-1/2"	1.12	1.61	1.90	W619MPXLI-15
2"	1.12	2.07	2.37	W619MPXLI-2
2-1/2"	1.12	2.47	2.88	W619MPXLI-25
3"	1.12	3.07	3.50	W619MPXLI-3
4"	1.12	4.03	4.50	W619MPXLI-4



PIPE SIZE ADAPTERS

TUBE OD WELD X SCHEDULE 10S WELD ADAPTERS 19WX

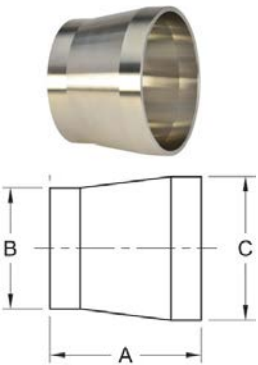
PIPE SIZE	A	B	C	316L PART NUMBER
1/2"	1.50	0.50	0.84	W619WX-.50
3/4"	2.00	0.75	1.05	W619WX-.75
1"	2.00	1.00	1.31	W619WX-1
1-1/2"	2.50	1.50	1.90	W619WX-15
2"	2.50	2.00	2.37	W619WX-2
2-1/2"	2.50	2.50	2.87	W619WX-25
3"	2.50	3.00	3.50	W619WX-3
4"	3.00	4.00	4.50	W619WX-4
6"	3.00	6.00	6.62	W619WX-6



PIPE SIZE
FITTINGS

TUBE OD WELD X SCHEDULE 40S WELD ADAPTERS 19WXLI

PIPE SIZE	A	B	C	316L PART NUMBER
1"	2.00	1.00	1.32	W619WXLI-1
1-1/2"	2.00	1.50	1.90	W619WXLI-15
2"	2.50	2.00	2.37	W619WXLI-2
2-1/2"	2.50	2.50	2.88	W619WXLI-25
3"	3.00	3.00	3.50	W619WXLI-3
4"	3.00	4.00	4.50	W619WXLI-4
6"	4.00	6.00	6.63	W619WXLI-6

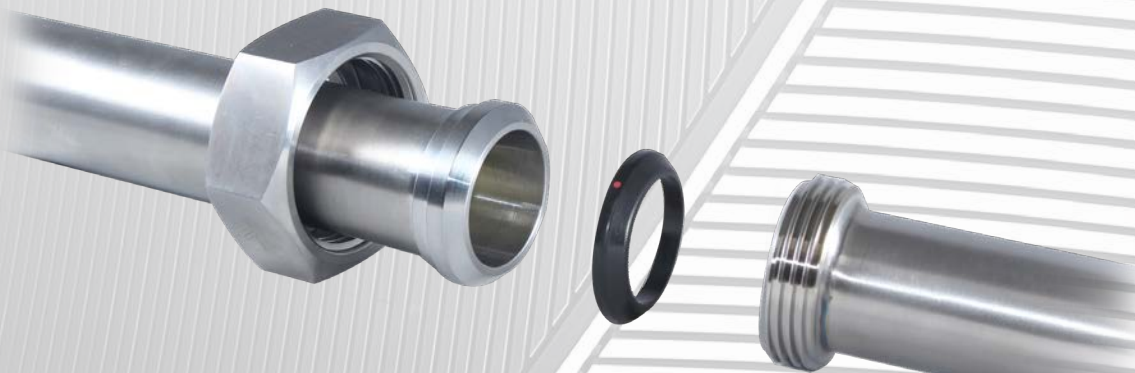


Sanitary BEVEL SEAT FITTINGS

Bevel Seat Fittings are used on process equipment and piping to ensure rigidity of the system. Bevel Seat Unions consist of a Threaded Bevel Ferrule mated with a Plain Bevel Ferrule. Hex Union Nuts are used to complete the union.

FEATURES:

- Size Range: 1" through 4"
- Alloys Available: 304 & 316L
- Surface Finish: 32R_a ID/OD
- Wall Thickness:
 - 1" through 3" 0.065"
 - 4" 0.083"
- Certification: 3A 63-04 #3756 (Sanitary Fittings)



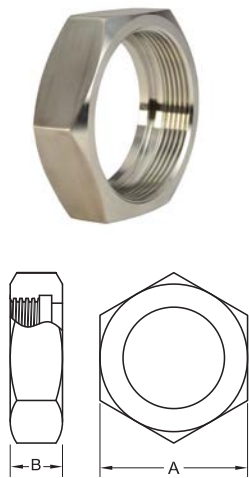
BEVEL SEAT FITTINGS

BEVEL SEAT NUTS

UNION HEX NUTS 13H

TUBE O.D.	A	B	304 PART NUMBER
1"	1.81	0.91	W413H-1
1-1/2"	2.41	0.97	W413H-15
2"	3.00	1.06	W413H-2
2-1/2"	3.59	1.19	W413H-25
3"	4.19	1.28	W413H-3
4"	5.42	1.50	W413H-4

• Max Operational Rating: 400 psi

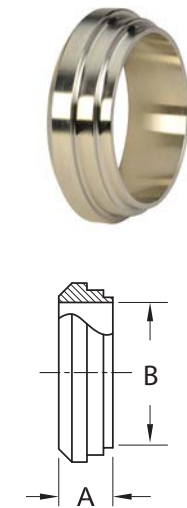


BEVEL SEAT FERRULES

SHORT PLAIN BEVEL SEAT WELD FERRULES 14PRF



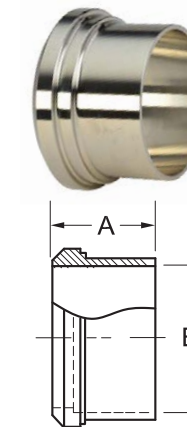
TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	0.72	0.87	W414PRF-1	W614PRF-1
1-1/2"	0.72	1.37	W414PRF-15	W614PRF-15
2"	0.75	1.87	W414PRF-2	W614PRF-2
2-1/2"	0.87	2.37	W414PRF-25	W614PRF-25
3"	0.91	2.87	W414PRF-3	W614PRF-3
4"	1.03	3.83	W414PRF-4	W614PRF-4



LONG PLAIN BEVEL SEAT FERRULES 14A



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.37	0.87	W414A-1	W614A-1
1-1/2"	1.50	1.37	W414A-15	W614A-15
2"	1.50	1.87	W414A-2	W614A-2
2-1/2"	1.75	2.37	W414A-25	W614A-25
3"	1.75	2.87	W414A-3	W614A-3
4"	1.75	3.83	W414A-4	W614A-4

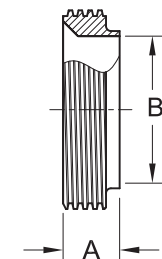


BEVEL SEAT FERRULES

SHORT THREADED BEVEL SEAT FERRULES 15TRF



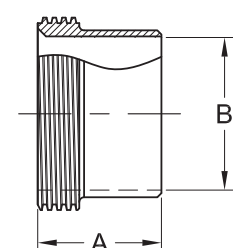
TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	.72	0.87	W415TRF-1	W615TRF-1
1-1/2"	.72	1.37	W415TRF-15	W615TRF-15
2"	.75	1.87	W415TRF-2	W615TRF-2
2-1/2"	.87	2.37	W415TRF-25	W615TRF-25
3"	.91	2.87	W415TRF-3	W615TRF-3
4"	1.03	3.83	W415TRF-4	W615TRF-4



LONG THREADED BEVEL SEAT FERRULES 15A



TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	1.37	0.87	W415A-1	W615A-1
1-1/2"	1.50	1.37	W415A-15	W615A-15
2"	1.50	1.87	W415A-2	W615A-2
2-1/2"	1.75	2.37	W415A-25	W615A-25
3"	1.75	2.87	W415A-3	W615A-3
4"	1.75	3.83	W415A-4	W615A-4

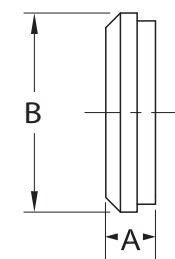


BEVEL SEAT END CAPS

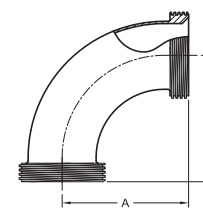
PLAIN BEVEL SEAT SOLID END CAPS 16A



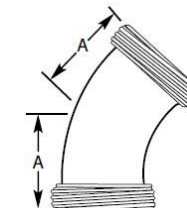
TUBE O.D.	A	B	304 PART NUMBER	316L PART NUMBER
1"	0.47	1.32	W416A-1	W616A-1
1-1/2"	0.56	1.85	W416A-15	W616A-15
2"	0.63	2.38	W416A-2	W616A-2
2-1/2"	0.66	2.91	W416A-25	W616A-25
3"	0.72	3.44	W416A-3	W616A-3
4"	0.81	4.51	W416A-4	W616A-4



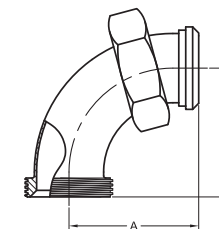
BEVEL SEAT ELBOWS



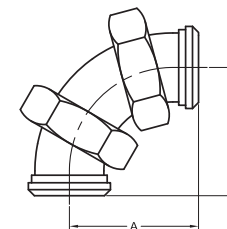
2C
THREADED BEVEL SEAT X
THREADED BEVEL SEAT
90° ELBOWS



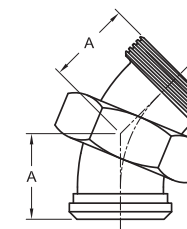
2K
THREADED BEVEL SEAT X
THREADED BEVEL SEAT
45° ELBOWS



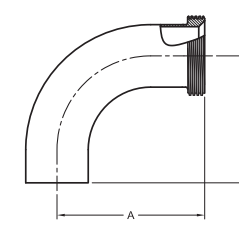
2F
THREADED BEVEL SEAT X
PLAIN BEVEL SEAT WITH
HEX NUT 90° ELBOWS



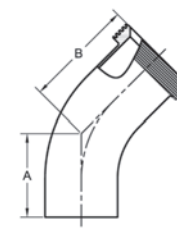
2E
PLAIN BEVEL SEAT WITH HEX
NUT X PLAIN BEVEL SEAT
WITH HEX NUT 90° ELBOWS



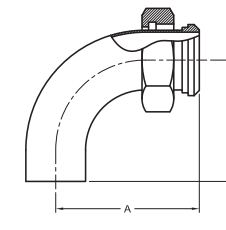
2P
PLAIN BEVEL SEAT WITH
HEX NUT X THREADED
BEVEL SEAT 45° ELBOWS



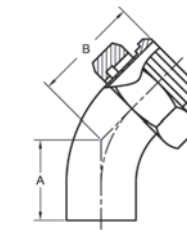
2T
POLISHED 90° THREADED
BEVEL SEAT X WELD
ELBOWS



2KT
45° WELD X THREADED
BEVEL SEAT ELBOWS

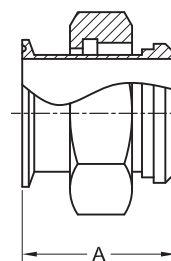


L2F
90° WELD X PLAIN BEVEL
SEAT ELBOWS WITH
HEX NUT

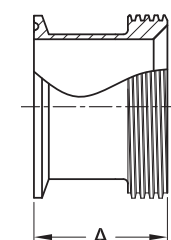


2KP
45° WELD X PLAIN BEVEL
SEAT ELBOWS WITH
HEX NUT

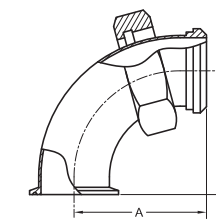
MISCELLANEOUS CLAMP BY BEVEL SEAT CONFIGURATIONS



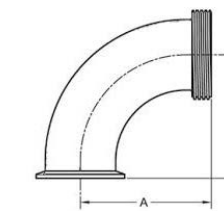
17MP-14
CLAMP X PLAIN BEVEL SEAT
ADAPTERS W/ HEX NUT



17MP-15
CLAMP X THREADED BEVEL
SEAT ADAPTERS

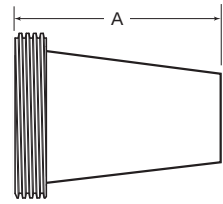


2FMP-14
90° CLAMP BY PLAIN BEVEL
SEAT WITH HEX NUT ELBOWS

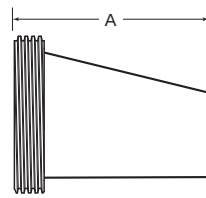


2FMP-15
90° CLAMP BY THREADED
BEVEL SEAT ELBOWS

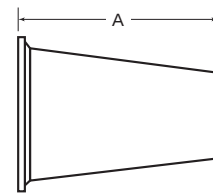
BEVEL SEAT REDUCERS



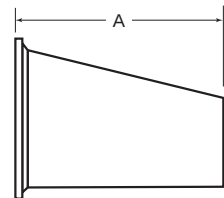
31T
THREADED BEVEL SEAT X WELD
CONCENTRIC REDUCERS



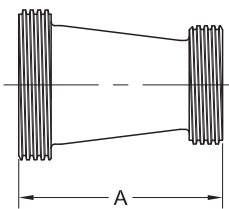
32T
THREADED BEVEL SEAT X WELD EC-
CENTRIC REDUCERS



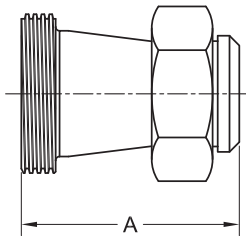
31P
PLAIN BEVEL SEAT X WELD
CONCENTRIC REDUCERS



32P
PLAIN BEVEL SEAT X WELD
ECCENTRIC REDUCERS

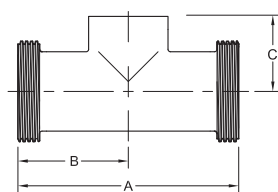


31TT
THREADED BEVEL SEAT X THREADED
BEVEL SEAT CONCENTRIC REDUCERS

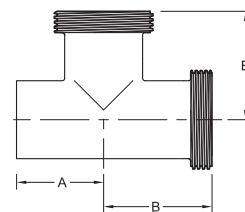


31TP
THREADED BEVEL SEAT X PLAIN BEVEL
W/ HEX NUT CONCENTRIC REDUCERS

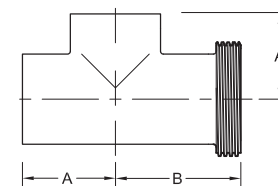
MISCELLANEOUS WELD BY BEVEL SEAT TEE CONFIGURATIONS



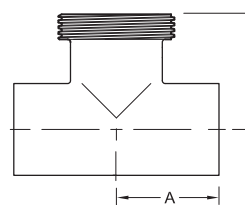
7TTW
THREAD RUN BY WELD BRANCH



7WTT
WELD BY THREAD RUN BY THREAD
BRANCH



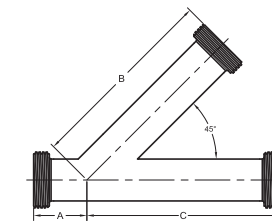
7WTW
WELD BY THREAD RUN
BY WELD BRANCH



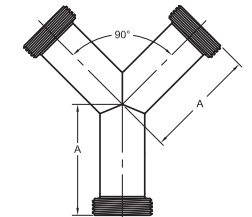
7WWT
WELD RUN
BY THREAD BRANCH

MISCELLANEOUS BEVEL SEAT CONFIGURATIONS

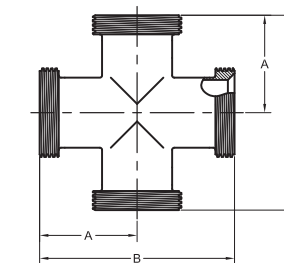
Other types of bevel seat configurations are available.
Call 888-798-2653 for information.



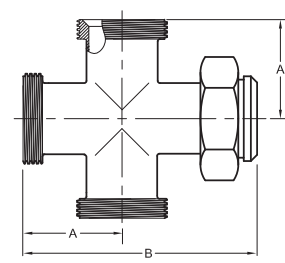
28A
THREADED LATERAL WYE



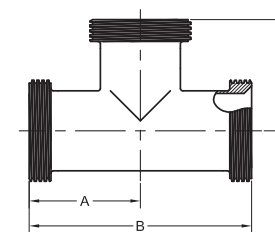
28B
THREADED TRUE WYE



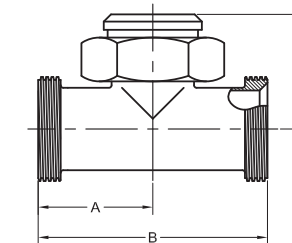
9
THREAD ENDS EQUAL CROSS



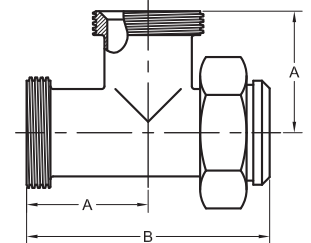
9A
THREAD (3 ENDS) X PLAIN BEVEL
SEAT WITH NUT



7
THREADED ENDS
EQUAL TEE



7A
THREAD X THREAD X
PLAIN OUTLET EQUAL TEE



7B
THREAD X PLAIN X
THREAD OUTLET
EQUAL TEE

Sanitary JOHN PERRY FITTINGS

John Perry fittings are similar to bevel seat, providing a secure, leak-tight, connection using external Acme threads. Designed to work with a metal-to-metal seat, a gasket may be used for additional security.

FEATURES:

- Size Range: 1" through 4"
- Alloys Available: 316L on wetted parts (304 on hex nut)
- Surface Finish: 32Ra ID/OD
- Wall Thickness:
 - 1" through 3" 0.065"
 - 4" 0.083"
- Certification: 3A 63-04 #3756 (Sanitary Fittings)

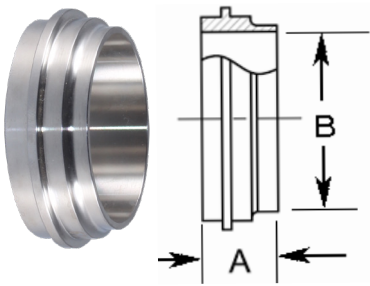


JOHN PERRY FERRULES

JOHN PERRY SHORT PLAIN WELD FERRULE 14PRFJP



TUBE O.D.	A	B	316L PART NUMBER
1"	0.69	0.87	W614PRFJP-1
1-1/2"	0.72	1.37	W614PRFJP-15
2"	0.72	1.87	W614PRFJP-2
2-1/2"	0.84	2.37	W614PRFJP-25
3"	0.91	2.87	W614PRFJP-3
4"	1.22	3.83	W614PRFJP-4

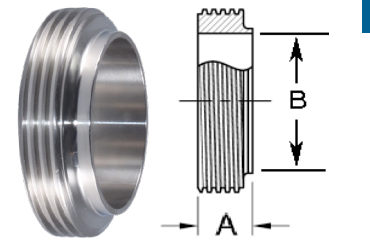


• John Perry connection utilizes the Bevel Seat Nut (13H)

JOHN PERRY THREADED SHORT WELD FERRULE 15TRFJP



TUBE O.D.	A	B	316L PART NUMBER
1"	0.69	0.87	W615TRFJP-1
1-1/2"	0.72	1.37	W615TRFJP-15
2"	0.72	1.87	W615TRFJP-2
2-1/2"	0.84	2.37	W615TRFJP-25
3"	0.91	2.87	W615TRFJP-3
4"	1.22	3.83	W615TRFJP-4

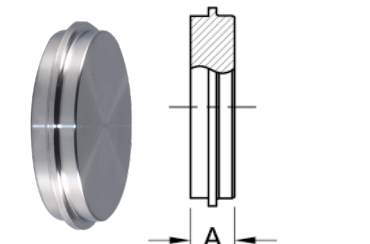


• John Perry connection utilizes the Bevel Seat Nut (13H)

JOHN PERRY SOLID END CAPS

JOHN PERRY SOLID END CAPS 16AJP

TUBE O.D.	A	316L PART NUMBER
1"	0.47	W616AJP-1
1-1/2"	0.48	W616AJP-15
2"	0.53	W616AJP-2
2-1/2"	0.55	W616AJP-25
3"	0.61	W616AJP-3
4"	0.69	W616AJP-4



Sanitary I-LINE / Q-LINE FITTINGS

I-Line fittings consist of interlocking flat face ferrules, a gasket, and a clamp. The metal-to-metal design prevents over compression by the clamp. I-Line fittings can withstand higher vibrations, temperatures, and pressures than other sanitary connections.

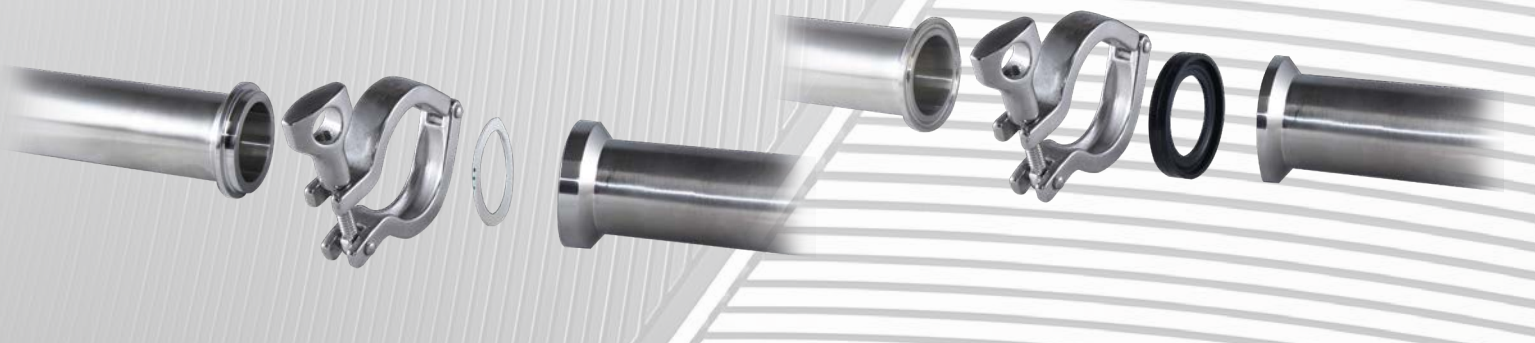
Q-line fittings are similar to clamp fittings with their quick assembly and dis-assembly feature, but are made from heavier construction making them more suitable for challenging environments.

FEATURES: I-LINE

- Size Range: 1" through 8"
- Alloys Available: 304 & 316L
- Surface Finish: 32R_a ID/OD
- Wall Thickness:
 - 1" through 3" 0.065"
 - 4" 0.083"
 - 6" & 8" 0.109"
- Certification: 3A 63-04 #3756 (Sanitary Fittings)

FEATURES: Q-LINE

- Size Range: 1" through 4"
- Alloys Available: 316L
- Surface Finish: 32R_a ID/OD
- Wall Thickness:
 - 1" through 3" 0.065"
 - 4" 0.083"
- Certification: 3A 63-04 #3756 (Sanitary Fittings)



I-LINE FITTINGS

I-LINE and Q-LINE CLAMPS

WING NUT I-LINE & Q-LINE CLAMPS 13IS

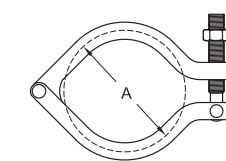
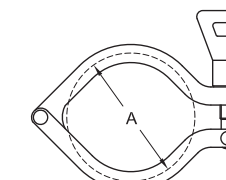
TUBE O.D.	SERVICE PRESSURE RATING @ 70° F*	SERVICE PRESSURE RATING @ 250° F*	A	304 PART NUMBER
1" & 1-1/2"	700 PSI	250 PSI	2.12	W413IS-1/15
2"	450 PSI	250 PSI	2.65	W413IS-2
2-1/2"	450 PSI	200 PSI	3.18	W413IS-25
3"	350 PSI	150 PSI	3.72	W413IS-3
4"	200 PSI	125 PSI	4.82	W413IS-4
6"	150 PSI	100 PSI	7.69	W413IS-6
8"	125 PSI	75 PSI	9.69	W413IS-8

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

BOLTED I-LINE & Q-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	2.12	W413I-1/15
2"	900 PSI	830 PSI	2.65	W413I-2
2-1/2"	720 PSI	660 PSI	3.18	W413I-25
3"	600 PSI	550 PSI	3.72	W413I-3
4"	570 PSI	525 PSI	4.82	W413I-4
6"	300 PSI	200 PSI	7.69	W413I-6
8"	250 PSI	150 PSI	9.69	W413I-8

- Nut tightened to 20 ft. lb. of torque



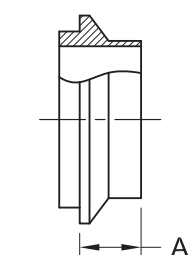
I-LINE / Q-LINE
FITTINGS

I-LINE FERRULES

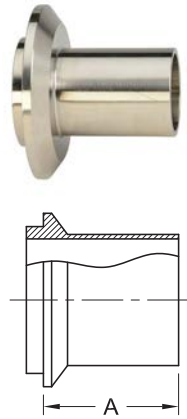
MALE I-LINE SHORT WELD FERRULES 14WI



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	0.60	W414WI-1	W614WI-1
1-1/2"	0.76	W414WI-15	W614WI-15
2"	0.79	W414WI-2	W614WI-2
2-1/2"	0.85	W414WI-25	W614WI-25
3"	0.91	W414WI-3	W614WI-3
4"	1.03	W414WI-4	W614WI-4
6"	0.94	--	W614WI-6
8"	0.94	--	W614WI-8



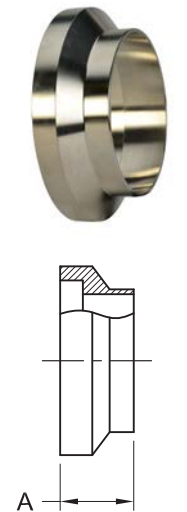
I-LINE FERRULES



MALE I-LINE LONG WELD FERRULES 14WLI



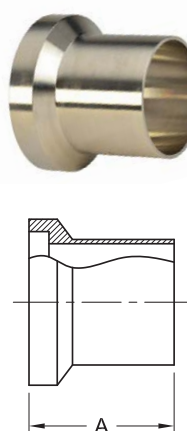
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.57	W414WLI-1	W614WLI-1
1-1/2"	1.84	W414WLI-15	W614WLI-15
2"	2.06	W414WLI-2	W614WLI-2
2-1/2"	2.19	W414WLI-25	W614WLI-25
3"	2.38	W414WLI-3	W614WLI-3
4"	2.69	W414WLI-4	W614WLI-4
6"	2.69	--	W614WLI-6



FEMALE I-LINE SHORT WELD FERRULES 15WI



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	0.79	W415WI-1	W615WI-1
1-1/2"	0.95	W415WI-15	W615WI-15
2"	1.04	W415WI-2	W615WI-2
2-1/2"	1.16	W415WI-25	W615WI-25
3"	1.22	W415WI-3	W615WI-3
4"	1.35	W415WI-4	W615WI-4
6"	1.12	--	W615WI-6
8"	1.13	--	W615WI-8



FEMALE I-LINE LONG WELD FERRULES 15WLI



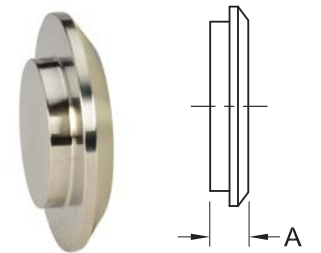
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	1.75	W415WLI-1	W615WLI-1
1-1/2"	2.03	W415WLI-15	W615WLI-15
2"	2.31	W415WLI-2	W615WLI-2
2-1/2"	2.50	W415WLI-25	W615WLI-25
3"	2.69	W415WLI-3	W615WLI-3
4"	3.00	W415WLI-4	W615WLI-4
6"	3.00	--	W615WLI-6

I-LINE END CAPS

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



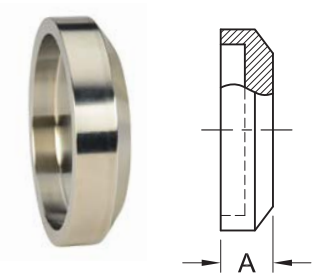
TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	0.50	W416AI-14I-1	W616AI-14I-1
1-1/2"	0.50	W416AI-14I-15	W616AI-14I-15
2"	0.69	W416AI-14I-2	W616AI-14I-2
2-1/2"	0.75	W416AI-14I-25	W616AI-14I-25
3"	0.75	W416AI-14I-3	W616AI-14I-3
4"	0.75	W416AI-14I-4	W616AI-14I-4
6"	0.75	W416AI-14I-6	W616AI-14I-6



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



TUBE O.D.	A	304 PART NUMBER	316L PART NUMBER
1"	0.50	W416AI-15I-1	W616AI-15I-1
1-1/2"	0.50	W416AI-15I-15	W616AI-15I-15
2"	0.56	W416AI-15I-2	W616AI-15I-2
2-1/2"	0.75	W416AI-15I-25	W616AI-15I-25
3"	0.75	W416AI-15I-3	W616AI-15I-3
4"	0.77	W416AI-15I-4	W616AI-15I-4
6"	0.87	W416AI-15I-6	W616AI-15I-6



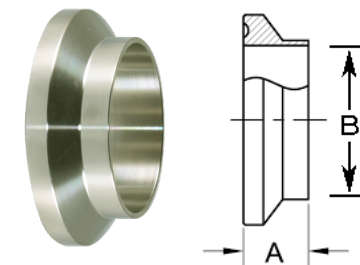
Q-LINE FERRULES

Q-LINE WELD FERRULES 14WQ



TUBE O.D.	A	B	316L PART NUMBER
1"	0.53	0.87	W614WQ-1
1-1/2"	0.56	1.37	W614WQ-15
2"	0.81	1.87	W614WQ-2
2-1/2"	0.94	3.37	W614WQ-25
3"	0.94	2.87	W614WQ-3
4"	1.00	3.83	W614WQ-4

NEW!



• I-Line clamps are compatible with Q-Line fittings

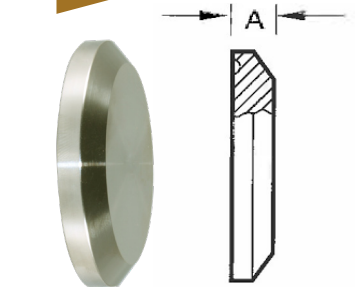
Q-LINE CAPS

Q-LINE SOLID END CAPS 16AQ

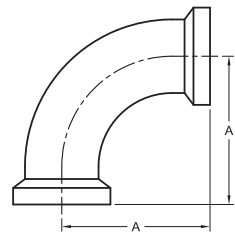


TUBE O.D.	A	316L PART NUMBER
1"	0.31	W616AQ-1
1-1/2"	0.31	W616AQ-15
2"	0.44	W616AQ-2
2-1/2"	0.50	W616AQ-25
3"	0.50	W616AQ-3
4"	0.63	W616AQ-4

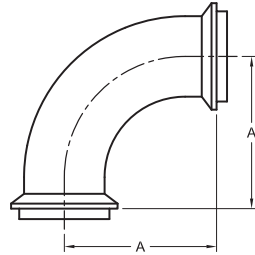
NEW!



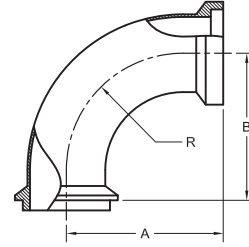
I-LINE ELBOWS



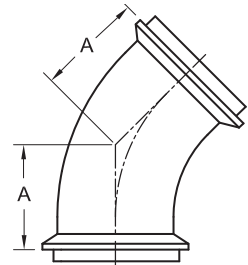
2CI
90° FEMALE I-LINE ELBOWS



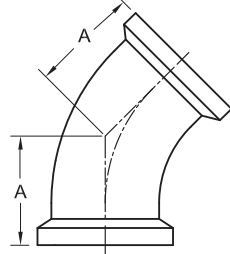
2EI
90° MALE I-LINE ELBOWS



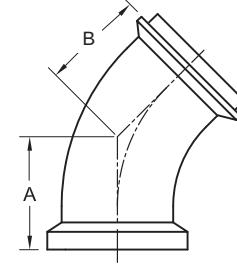
2FI
FEMALE I-LINE X MALE I-LINE
90° ELBOWS



2HI
45° MALE I-LINE ELBOWS

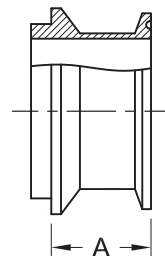


2KI
45° FEMALE I-LINE ELBOWS

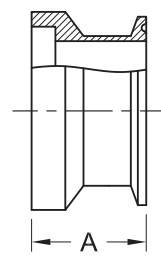


2PI
FEMALE I-LINE X MALE I-LINE
45° ELBOWS

MISCELLANEOUS CLAMP BY I-LINE CONFIGURATIONS

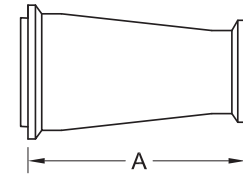


17-14I-14MP
MALE I-LINE X CLAMP ADAPTERS

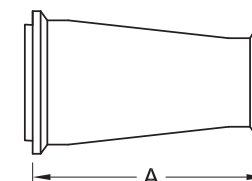


17-15I-14MP
FEMALE I-LINE X CLAMP ADAPTERS

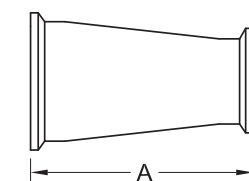
I-LINE REDUCERS



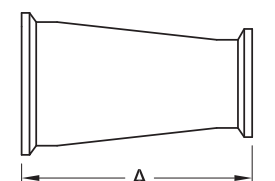
3114I-14I
MALE X MALE I-LINE
CONCENTRIC REDUCERS



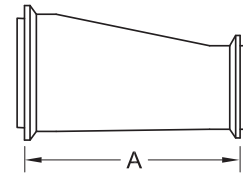
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MALE X FEMALE I-LINE
CONCENTRIC REDUCERS



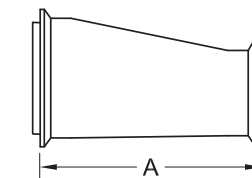
3115I-14I
FEMALE X MALE I-LINE
CONCENTRIC REDUCERS



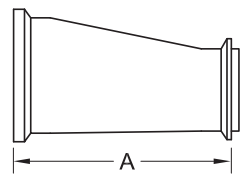
3115I-15I
FEMALE I-LINE
CONCENTRIC REDUCERS



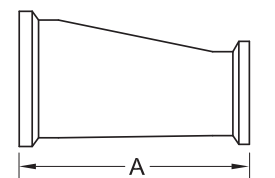
3214I-14I
MALE X MALE I-LINE
ECCENTRIC REDUCERS



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

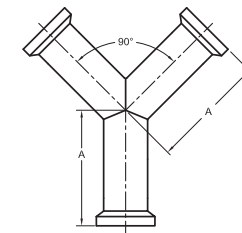


3215I-14I
FEMALE X MALE I-LINE
ECCENTRIC REDUCERS

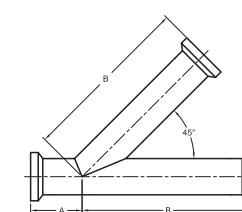


3215I-15I
FEMALE I-LINE
ECCENTRIC REDUCERS

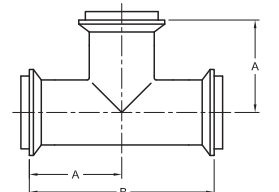
MISCELLANEOUS I-LINE CONFIGURATIONS



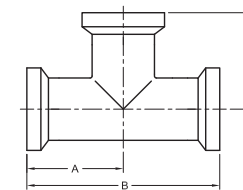
28BI
MALE I-LINE TRUE WYE



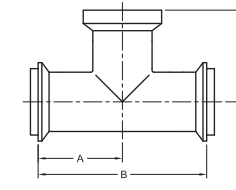
28AI
MALE I-LINE LATERAL WYE



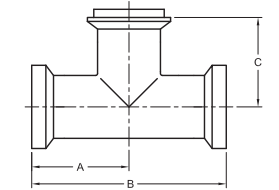
7HI
MALE I-LINE TEE



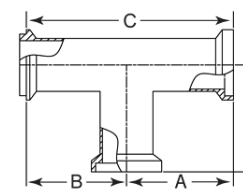
7I
FEMALE I-LINE TEE



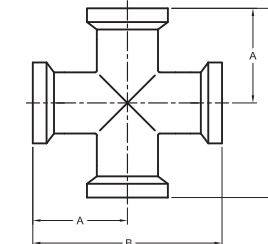
7EI
MALE RUN BY FEMALE OUTLET TEE



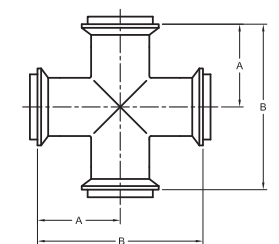
7AI
FEMALE RUN BY
MALE OUTLET TEE



7BI
FEMALE BY MALE RUN BY FEMALE
BRANCH TEE



9HI
FEMALE I-LINE CROSS



9I
MALE I-LINE CROSS

Sanitary

DIN 11851 EUROPEAN FITTINGS (the German Institute for Standardization)

DIN fittings are a European sanitary process connection system used in food and beverage processing around the world and are often found on processing equipment imported to the US. Wayland DIN fittings offered with Imperial connections are a simple solution for a seamless transition to an imperial size piping system.

FEATURES:

- Size Range: 1" through 4"
- Alloys Available: 316L on wetted parts (Round Slotted Nut 304)
- Surface Finish: 32R_a ID/OD
- Specifications: DIN 11851
- Wall Thickness:
1" through 3" 0.065"
4" 0.083"
- For Wayland DIN fittings, the weld side of the fitting is manufactured to Imperial Tube dimensions



DIN FITTINGS

NEW!

DIN & SMS SPANNER WRENCHES SP

USED ON SIZE	PART NUMBER
1" - 1-1/2" (DN25 - DN40)	DIN-SMS-60/90SP
2" - 4" (DN50 - DN100)	DIN-SMS-90/155SP

- Adjustable Spanner Suitable For DIN & SMS Swivel Female Nut
- Nickel Plated Steel

DIN ROUND NUTS 13R-DIN

SIZE	A	B	304 PART NUMBER
1" (DN25)	0.83	Rd 52 x 1/6"	W413R-DIN-1
1-1/2" (DN40)	0.83	Rd 65 x 1/6"	W413R-DIN-15
2" (DN50)	0.87	Rd 78 x 1/6"	W413R-DIN-2
2-1/2" (DN65)	0.98	Rd 95 x 1/6"	W413R-DIN-25
3" (DN80)	1.14	Rd 110 x 1/4"	W413R-DIN-3
4" (DN100)	1.22	Rd 130 x 1/4"	W413R-DIN-4

DIN BLANK CAPS 16AMP-DIN

SIZE	A	316L PART NUMBER
1" (DN25)	0.51	W616AMP-DIN-1
1-1/2" (DN40)	0.51	W616AMP-DIN-15
2" (DN50)	0.55	W616AMP-DIN-2
2-1/2" (DN65)	0.63	W616AMP-DIN-25
3" (DN80)	0.63	W616AMP-DIN-3
4" (DN100)	0.79	W616AMP-DIN-4

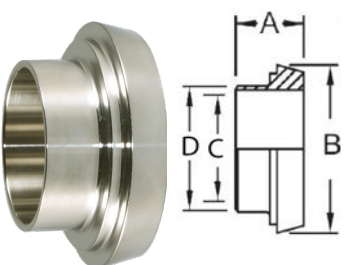
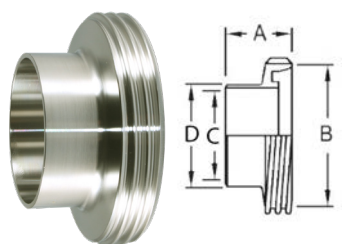
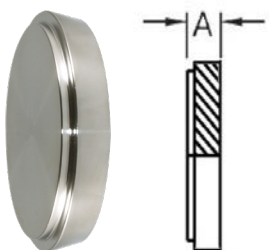
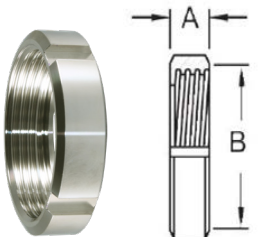
DIN x TUBE O.D. WELDING MALE ADAPTERS 15A-DIN

DIN SIZE x TUBE O.D.	A	B	C	D	316L PART NUMBER
DN25 x 1"	1.14	Rd 52 x 1/6"	0.87	1.00	W615A-DIN-1
DN40 x 1-1/2"	1.30	Rd 65 x 1/6"	1.37	1.50	W615A-DIN-15
DN50 x 2"	1.38	Rd 78 x 1/6"	1.87	2.00	W615A-DIN-2
DN65 x 2-1/2"	1.58	Rd 95 x 1/6"	2.37	2.50	W615A-DIN-25
DN80 x 3"	1.77	Rd 110 x 1/4"	2.87	3.00	W615A-DIN-3
DN100 x 4"	2.13	Rd 130 x 1/4"	3.83	4.00	W615A-DIN-4

DIN x TUBE O.D. WELDING LINER ADAPTERS 14A-DIN

DIN SIZE x TUBE O.D.	A	B	C	D	316L PART NUMBER
DN25 x 1"	0.87	1.73	0.87	1.00	W614A-DIN-1
DN40 x 1-1/2"	1.02	2.21	1.37	1.50	W614A-DIN-15
DN50 x 2"	1.10	2.70	1.87	2.00	W614A-DIN-2
DN65 x 2-1/2"	1.26	3.39	2.37	2.50	W614A-DIN-25
DN80 x 3"	1.46	3.94	2.87	3.00	W614A-DIN-3
DN100 x 4"	1.73	4.76	3.83	4.00	W614A-DIN-4

DIN FITTINGS



Sanitary

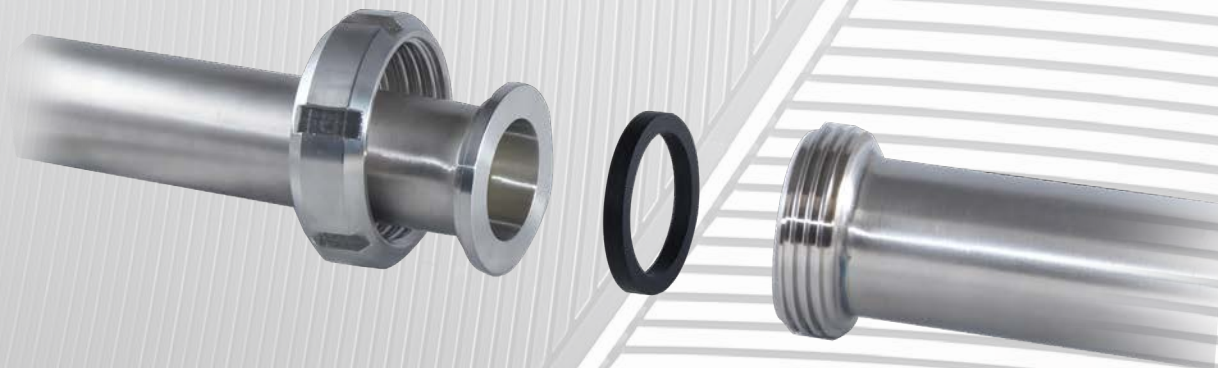
SMS EUROPEAN FITTINGS

(Swedish Milk Standard)

SMS Fittings are commonly used in the UK and throughout Europe. This is a hygienic fitting with a crevice free design and has the added advantage that it is totally removable in position. This feature enhances the union's suitability for use in frequently dismantled systems.

FEATURES:

- Size Range: 1" through 4"
- Alloys Available: 316L on wetted parts (Round Slotted Nut 304ss)
- Surface Finish: 32Ra ID/OD
- Specifications: ISO 2037 and ISO 2851
- Wall Thickness:
 - 1" through 3" 0.065"
 - 4" 0.083"
- For Wayland SMS fittings, the weld side of the fittings is manufactured to Imperial Tube dimensions



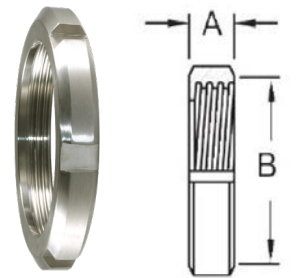
SMS FITTINGS

NEW!

SMS FITTINGS

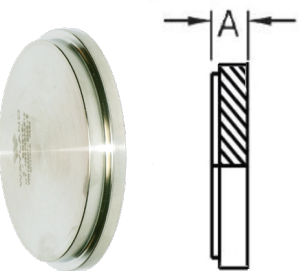
SMS ROUND NUTS 13R-SMS

SIZE	A	B	304 PART NUMBER
1"	0.75	Rd 40 x 1/6"	W413R-SMS-1
1-1/2"	0.91	Rd 60 x 1/6"	W413R-SMS-15
2"	0.95	Rd 70 x 1/6"	W413R-SMS-2
2-1/2"	1.02	Rd 85 x 1/6"	W413R-SMS-25
3"	1.06	Rd 98 x 1/6"	W413R-SMS-3
4"	1.14	Rd 125 x 1/4"	W413R-SMS-4



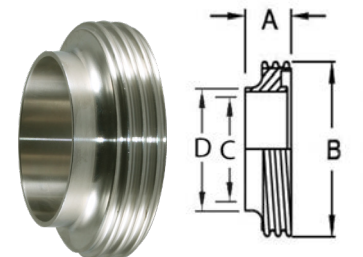
SMS BLANK CAPS 16AMP-SMS

SIZE	A	B	C	316L PART NUMBER
1"	0.32	1.22	1.38	W616AMP-SMS-1
1-1/2"	0.32	1.85	2.17	W616AMP-SMS-15
2"	0.35	2.34	2.56	W616AMP-SMS-2
2-1/2"	0.35	2.87	3.15	W616AMP-SMS-25
3"	0.39	3.39	3.66	W616AMP-SMS-3
4"	0.39	4.39	4.65	W616AMP-SMS-4



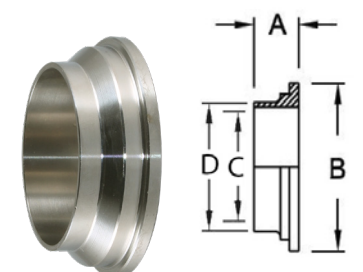
SMS x TUBE O.D. WELDING MALE ADAPTERS 15A-SMS

TUBE O.D.	A	B	C	D	316L PART NUMBER
1"	0.71	Rd 40 x 1/6"	0.87	1.00	W615A-SMS-1
1-1/2"	0.79	Rd 60 x 1/6"	1.37	1.50	W615A-SMS-15
2"	0.79	Rd 70 x 1/6"	1.87	2.00	W615A-SMS-2
2-1/2"	0.87	Rd 85 x 1/6"	2.37	2.50	W615A-SMS-25
3"	0.95	Rd 98 x 1/6"	2.87	3.00	W615A-SMS-3
4"	0.98	Rd 125 x 1/4"	3.83	4.00	W615A-SMS-4



SMS x TUBE O.D. WELDING LINERS 14A-SMS

TUBE O.D.	A	B	C	D	316L PART NUMBER
1"	0.51	1.38	0.87	1.00	W614A-SMS-1
1-1/2"	0.59	2.17	1.37	1.50	W614A-SMS-15
2"	0.59	2.56	1.87	2.00	W614A-SMS-2
2-1/2"	0.59	3.15	2.37	2.50	W614A-SMS-25
3"	0.67	3.66	2.87	3.00	W614A-SMS-3
4"	0.67	4.72	3.83	4.00	W614A-SMS-4



Sanitary GASKETS

Wayland sanitary gaskets are available in a variety of materials and styles, each possessing unique performance characteristics, and should be selected based on the specific demands of the application. Please refer to the following sanitary gasket elastomer characteristics to assist with proper gasket selection. For a specific chemical resistance see our compound selection chart on page 115. Wayland gaskets are manufactured to meet both FDA and 3A sanitary standards.

FEATURES:

- Size range: ½” through 12”
- Elastomers Available: Buna, EPDM, FKM, PTFE, Silicone
- Specifications: FDA CFR 177.2600, FDA CFR 177.1550
- Styles: Tri-Clamp, Bevel Seat, I-Line, Q-line, DIN, SMS, Flanged, Metal Detectable, Mesh, Orifice, Perforated, and Envelope.



GASKET MATERIALS INFORMATION AND 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	GASKET COLOR	DOT COLOR CODE	USEFUL TEMPERATURE
Nitrile Rubber (BUNA)	U	BLACK	RED	-30°F to 200°F
White Nitrile Rubber (BUNA)	UW	WHITE	RED	-30°F to 200°F
EPDM Peroxide Cured	E	BLACK	GREEN	-30°F to 300°F
FKM	SFY	BLACK/BROWN	WHITE / YELLOW	-30°F to 400°F
White FKM	SFYW	WHITE	YELLOW	-30°F to 400°F
Silicone	X	CLEAR	PINK / NO DOT ¹	-40°F to 450°F
White Silicone	XW	WHITE	PINK / NO DOT ¹	-40°F to 450°F
PTFE	G	WHITE	NO DOT	-100°F to 450°F
BUNA Metal Detectable	U-MD	BLUE	BLUE / RED	-30°F to 200°F
EPDM Metal Detectable	E-MD	BLUE	BLUE / GREEN	-30°F to 300°F
FKM Metal Detectable	SFY-MD	BLUE	BLUE / WHITE / YELLOW	-30°F to 400°F
Silicone Metal Detectable	X-MD	BLUE	BLUE / PINK	-40°F to 450°F
PTFE Metal Detectable	G-MD	BLUE	NO DOT	-100°F to 450°F

¹ Pink dot for peroxide cured, no dot for platinum cured

WE ALSO PROVIDE:

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

CALL FOR DETAILS!



ADDITIONAL GASKET INFORMATION

Buna (Nitrile) gaskets are the most popular and economic and are common in food and beverage applications. They have good resistance to oils and animal fats, and good resistance to moderately aggressive chemicals.

EPDM gaskets are also very popular, economic gaskets, and are common in food and beverage, pharmaceutical and cosmetic/personal care applications. They exhibit higher chemical and heat resistance than Buna but are acceptable for steam only intermittently and at lower pressures. They can experience swelling and deformation when exposed to certain oils and animal fats.

FKM (Viton®) gaskets exhibit good all-around characteristics, with good oil, alcohol and acid resistance, and a slightly higher heat and steam tolerance than EPDM.

PTFE (Teflon®) gaskets exhibit exceptional chemical resistance, and extremely high tolerances to heat and steam. However, they're a plastic as opposed to an elastomer, and therefore not as compressible as other gasket materials, which can lead to difficulty in sealing if misaligned. They can experience cold flow, especially if clamps are misaligned or overtightened, resulting in a reduction in sealing pressure.

Silicone gaskets exhibit the widest temperature range. They're often used in place of PTFE gaskets in fluid or steam applications when greater compressibility and leak resistance is required.

CLAMP GASKETS

STANDARD CLAMP GASKETS (TYPE-1) 40MP - 42MP

SIZE	GASKET O.D.	GASKET I.D.	EPDM (BLACK)	PTFE (WHITE)	FKM (BLACK)	FKM (WHITE)	BUNA (BLACK)	BUNA (WHITE)	SILICONE (CLEAR)	SILICONE (WHITE)
1/2"	0.86	0.46	42MPE-.50	42MPG-.50	42MPSFY-.50	42MPSFYW-.50	42MPU-.50	42MPUW-.50	42MPX-.50	42MPXW-.50
3/4"	0.86	0.64	42MPE-.75	42MPG-.75	42MPSFY-.75	42MPSFYW-.75	42MPU-.75	42MPUW-.75	42MPX-.75	42MPXW-.75
1"	1.98	0.87	40MPE-1	40MPG-1	40MPSFY-1	40MPSFYW-1	40MPU-1	40MPUW-1	40MPX-1	40MPXW-1
1-1/2"	1.98	1.37	40MPE-15	40MPG-15	40MPSFY-15	40MPSFYW-15	40MPU-15	40MPUW-15	40MPX-15	40MPXW-15
2"	2.52	1.87	40MPE-2	40MPG-2	40MPSFY-2	40MPSFYW-2	40MPU-2	40MPUW-2	40MPX-2	40MPXW-2
2-1/2"	3.05	2.37	40MPE-25	40MPG-25	40MPSFY-25	40MPSFYW-25	40MPU-25	40MPUW-25	40MPX-25	40MPXW-25
3"	3.58	2.87	40MPE-3	40MPG-3	40MPSFY-3	40MPSFYW-3	40MPU-3	40MPUW-3	40MPX-3	40MPXW-3
4"	4.68	3.83	40MPE-4	40MPG-4	40MPSFY-4	40MPSFYW-4	40MPU-4	40MPUW-4	40MPX-4	40MPXW-4
5"	6.51	5.82	40MPE-5	40MPG-5	40MPSFY-5	40MPSFYW-5	40MPU-5	40MPUW-5	40MPX-5	40MPXW-5
6"	6.56	5.78	40MPE-6	40MPG-6	40MPSFY-6	40MPSFYW-6	40MPU-6	40MPUW-6	40MPX-6	40MPXW-6
8"	8.60	7.78	40MPE-8	40MPG-8	40MPSFY-8	40MPSFYW-8	40MPU-8	40MPUW-8	40MPX-8	40MPXW-8
10"	10.57	9.78	40MPE-10	40MPG-10	40MPSFY-10	40MPSFYW-10	40MPU-10	40MPUW-10	40MPX-10	40MPXW-10
12"	12.57	11.76	40MPE-12	40MPG-12	40MPSFY-12	40MPSFYW-12	40MPU-12	40MPUW-12	40MPX-12	40MPXW-12

FLANGED GASKETS (TYPE-2) 40MPF

SIZE	GASKET O.D.	GASKET I.D.	EPDM (BLACK)	BUNA (BLACK)	FKM (BLACK)	SILICONE (WHITE)
1"	1.98	0.87	40MPFE-1	40MPFU-1	40MPFSFY-1	40MPFX-1
1-1/2"	1.98	1.37	40MPFE-15	40MPFU-15	40MPFSFY-15	40MPFX-15
2"	2.52	1.87	40MPFE-2	40MPFU-2	40MPFSFY-2	40MPFX-2
2-1/2"	3.05	2.37	40MPFE-25	40MPFU-25	40MPFSFY-25	40MPFX-25
3"	3.58	2.87	40MPFE-3	40MPFU-3	40MPFSFY-3	40MPFX-3
4"	4.68	3.83	40MPFE-4	40MPFU-4	40MPFSFY-4	40MPFX-4
6"	6.56	5.78	40MPFE-6	40MPFU-6	40MPFSFY-6	40MPFX-6
8"	8.60	7.78	40MPFE-8	40MPFU-8	40MPFSFY-8	40MPFX-8
10"	10.57	9.78	40MPFE-10	40MPFU-10	40MPFSFY-10	40MPFX-10
12"	12.57	11.76	40MPFE-12	40MPFU-12	40MPFSFY-12	40MPFX-12

- Flanged gaskets are manufactured with flanged design to aid in installation

METAL DETECTABLE CLAMP GASKETS 40MP-MD

SIZE	GASKET O.D.	GASKET I.D.	EPDM (BLUE) ¹	BUNA (BLUE) ¹	FKM (BLUE) ¹	SILICONE (BLUE) ¹	PTFE (BLUE) ¹
1"	1.98	0.87	40MPE-MD-1	40MPU-MD-1	40MPSFY-MD-1	40MPX-MD-1	40MPG-MD-1
1-1/2"	1.98	1.37	40MPE-MD-15	40MPU-MD-15	40MPSFY-MD-15	40MPX-MD-15	40MPG-MD-15
2"	2.52	1.87	40MPE-MD-2	40MPU-MD-2	40MPSFY-MD-2	40MPX-MD-2	40MPG-MD-2
2-1/2"	3.05	2.37	40MPE-MD-25	40MPU-MD-25	40MPSFY-MD-25	40MPX-MD-25	40MPG-MD-25
3"	3.58	2.87	40MPE-MD-3	40MPU-MD-3	40MPSFY-MD-3	40MPX-MD-3	40MPG-MD-3
4"	4.68	3.83	40MPE-MD-4	40MPU-MD-4	40MPSFY-MD-4	40MPX-MD-4	40MPG-MD-4
6"	6.56	5.78	40MPE-MD-6	40MPU-MD-6	40MPSFY-MD-6	40MPX-MD-6	40MPG-MD-6

- Metal Detectable gaskets are impregnated with stainless steel particles to allow pieces to be found with metal detection equipment.

¹ Metal Detectable gaskets come standard in blue color. Other colors available upon request.

PIPE SIZE GASKETS

PIPE SIZE GASKETS 40MV

PIPE SIZE	GASKET O.D.	GASKET I.D.	PTFE (WHITE)	BUNA (BLACK)
1"	1.98	1.10	40MVG-1	40MVU-1
1-1/2"	2.52	1.68	40MVG-15	40MVU-15
2"	3.05	2.16	40MVG-2	40MVU-2
2-1/2"	3.58	2.64	40MVG-25	40MVU-25
3"	4.13	3.26	40MVG-3	40MVU-3
4"	5.13	4.26	40MVG-4	40MVU-4
6"	7.20	6.35	40MVG-6	40MVU-6

BEVEL SEAT GASKETS

BEVEL SEAT GASKETS 40BS

SIZE	GASKET O.D.	GASKET I.D.	EPDM (BLACK)	PTFE (WHITE)	FKM (BLACK)	BUNA (BLACK)	SILICONE (CLEAR)
1"	1.31	.87	40BS-E-1	40BS-T-1	40BS-V-1	40BS-B-1	40BS-X-1
1-1/2"	1.85	1.37	40BS-E-15	40BS-T-15	40BS-V-15	40BS-B-15	40BS-X-15
2"	2.38	1.87	40BS-E-2	40BS-T-2	40BS-V-2	40BS-B-2	40BS-X-2
2-1/2"	2.91	2.37	40BS-E-25	40BS-T-25	40BS-V-25	40BS-B-25	40BS-X-25
3"	3.44	2.87	40BS-E-3	40BS-T-3	40BS-V-3	40BS-B-3	40BS-X-3
4"	4.51	3.83	40BS-E-4	40BS-T-4	40BS-V-4	40BS-B-4	40BS-X-4

JOHN PERRY GASKETS

JOHN PERRY GASKETS 40JP

NEW!

SIZE	GASKET O.D.	GASKET I.D.	EPDM (BLACK)	PTFE (WHITE)	FKM (BLACK)	BUNA (BLACK)
1"	1.21	0.90	40JPE-1	40JPG-1	40JPSFY-1	40JPU-1
1-1/2"	1.80	1.40	40JPE-15	40JPG-15	40JPSFY-15	40JPU-15
2"	2.19	1.89	40JPE-2	40JPG-2	40JPSFY-2	40JPU-2
2-1/2"	2.65	2.37	40JPE-25	40JPG-25	40JPSFY-25	40JPU-25
3"	3.19	2.85	40JPE-3	40JPG-3	40JPSFY-3	40JP-U-3
4"	4.29	3.78	40JPE-4	40JPG-4	40JPSFY-4	40JPU-4

I-LINE GASKETS

I-LINE GASKETS 40I

SIZE	GASKET O.D.	GASKET I.D.	EPDM (WHITE)	PTFE (WHITE)	BUNA (BLACK)	FKM (BLACK)	SILICONE (CLEAR)
1"	1.26	.87	40IE-1	40IT-1	40IU-1	40IV-1	40IX-1
1-1/2"	1.75	1.37	40IE-15	40IT-15	40IU-15	40IV-15	40IX-15
2"	2.25	1.87	40IE-2	40IT-2	40IU-2	40IV-2	40IX-2
2-1/2"	2.76	2.37	40IE-25	40IT-25	40IU-25	40IV-25	40IX-25
3"	3.31	2.87	40IE-3	40IT-3	40IU-3	40IV-3	40IX-3
4"	4.31	3.83	40IE-4	40IT-4	40IU-4	40IV-4	40IX-4
6"	6.91	5.78	40IE-6	40IT-6	40IU-6	40IV-6	40IX-6

Q-LINE GASKETS

Q-LINE GASKETS 40Q

NEW!

SIZE	GASKET O.D.	GASKET I.D.	BUNA (BLACK)	PTFE (WHITE)
1"	2.09	0.90	40QH-1	40QT-1
1-1/2"	2.12	1.40	40QH-15	40QT-15
2"	2.77	1.89	40QH-2	40QT-2
2-1/2"	3.46	2.37	40QH-25	40QT-25
3"	4.00	2.87	40QH-3	40QT-3
4"	5.00	3.87	40QH-4	40QT-4

EUROPEAN FITTINGS GASKETS

SMS EURO GASKETS - L-STYLE 40MP-SMS

NEW!

TUBE O.D.	GASKET O.D.	GASKET I.D.	BUNA (BLACK)
1"	1.26	1.00	40MPU-SMS-1
1-1/2"	1.89	1.50	40MPU-SMS-15
2"	2.40	2.00	40MPU-SMS-2
2-1/2"	2.89	2.50	40MPU-SMS-25
3"	3.39	3.00	40MPU-SMS-3
4"	4.47	4.00	40MPU-SMS-4

DIN EURO GASKETS 40MP-DIN

NEW!

TUBE O.D.	GASKET O.D.	GASKET I.D.	BUNA (BLACK)
1"	1.57	1.18	40MPU-DIN-1
1-1/2"	2.05	1.65	40MPU-DIN-15
2"	2.52	2.13	40MPU-DIN-2
2-1/2"	3.19	2.80	40MPU-DIN-25
3"	3.74	3.35	40MPU-DIN-3
4"	4.49	4.09	40MPU-DIN-4

Sanitary VALVES

Sanitary valves are designed for use in applications requiring clean or sterile processing and used to control, regulate, or direct the flow of liquids, gases, or solids within a system or process.

FEATURES:

- Size Range: 1/2" through 8"
- Operation: Manual & Automated
- Alloys Available: 304 & 316L
- Seat materials: PTFE, EPDM, FKM, Silicone
- End connections: Clamp, Butt weld, I-Line, Bevel Seat, Q-Line, John Perry, Din, SMS
- Surface Finish: 32Ra (all wetted parts)
- Certification: 3A 58-02 #3773 (Vacuum Breakers and Check Valves)



SANITARY VALVES

BUTTERFLY VALVES

FEATURES:

- 100% hydraulic tested / 100% inspected
- Field serviceable (no special tools required)
- Vacuum rating: 0.4 inches Hg at 68°F
- Low resistance to flow
- Bi-directional flow
- Polyacetal bushings for the valve disc for reduced friction and increased life cycle
- All wetted surfaces are ≤ 32Ra
- Lockout/Tagout handle (trigger handle only)

OPTIONS:

- **Material:** 304 or 316L forged stainless steel body and disc
- **Seat:**
 - » EPDM (standard)
 - » Silicone
 - » FKM
 - » All seats are FDA approved
- **Handle:**
 - » 12-position stainless steel trigger handle
 - » 12-position black plastic trigger handle
 - » 4-position pull handle
- **Connection:**
 - » Stocked in clamp and butt weld ends
 - » Other connections available upon request



SPECIFICATIONS

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

SIZE	BREAK TORQUE (in. lbs.)*			PRESSURE RATING (PSI)	FLOW COEFFICIENT (C _v)	WEIGHT (lbs.)		
	SILICONE	EPDM	FKM			STEEL TRIGGER	PLASTIC TRIGGER	PULL HANDLE
1/2"	15	35	25	150	8	3.13	N/A	2.40
3/4"	18	45	35	150	20	3.04	N/A	2.31
1"	20	75	70	160	23	3.57	3.02	3.06
1-1/2"	40	130	125	160	80	3.45	2.90	2.90
2"	55	165	175	160	230	4.23	3.66	3.65
2-1/2"	70	210	220	140	264	4.71	4.12	4.14
3"	165	350	310	140	372	5.50	4.95	4.99
4"	350	540	450	140	800	8.04	7.48	7.82
6"	700	1550	750	110	1200	17.20	N/A	16.54
8"	520	680	550	110	2110	N/A	N/A	28.40

* Torque required to fully open and close valve

TEMPERATURE RATING

SEAT MATERIAL	MIN. MAX TEMPERATURE	RECOMMENDED OPERATING RANGE
EPDM	-40° - 266°F	-4° - 230°F
FKM	-4° - 392°F	-4° - 302°F
SILICONE	-76° - 392°F	-13° - 284°F

CLAMP END BUTTERFLY VALVES

CLAMP END BUTTERFLY VALVE WITH 12 POSITION STAINLESS STEEL TRIGGER HANDLE BFVTC-TS



SIZE	EPDM SEATS *		SILICONE SEATS		FKM SEATS	
	304	316L*	304	316L	304	316L
1/2"	--	W6BFVTC-E-.50-TS	--	W6BFVTC-S-.50-TS	--	W6BFVTC-V-.50-TS
3/4"	--	W6BFVTC-E-.75-TS	--	W6BFVTC-S-.75-TS	--	W6BFVTC-V-.75-TS
1"	W4BFVTC-E-1-TS	W6BFVTC-E-1-TS	W4BFVTC-S-1-TS	W6BFVTC-S-1-TS	W4BFVTC-V-1-TS	W6BFVTC-V-1-TS
1-1/2"	W4BFVTC-E-15-TS	W6BFVTC-E-15-TS	W4BFVTC-S-15-TS	W6BFVTC-S-15-TS	W4BFVTC-V-15-TS	W6BFVTC-V-15-TS
2"	W4BFVTC-E-2-TS	W6BFVTC-E-2-TS	W4BFVTC-S-2-TS	W6BFVTC-S-2-TS	W4BFVTC-V-2-TS	W6BFVTC-V-2-TS
2-1/2"	W4BFVTC-E-25-TS	W6BFVTC-E-25-TS	W4BFVTC-S-25-TS	W6BFVTC-S-25-TS	W4BFVTC-V-25-TS	W6BFVTC-V-25-TS
3"	W4BFVTC-E-3-TS	W6BFVTC-E-3-TS	W4BFVTC-S-3-TS	W6BFVTC-S-3-TS	W4BFVTC-V-3-TS	W6BFVTC-V-3-TS
4"	W4BFVTC-E-4-TS	W6BFVTC-E-4-TS	W4BFVTC-S-4-TS	W6BFVTC-S-4-TS	W4BFVTC-V-4-TS	W6BFVTC-V-4-TS
6"	--	W6BFVTC-E-6-TS	--	W6BFVTC-S-6-TS	--	W6BFVTC-V-6-TS

* 12 position stainless steel trigger handle valve comes standard with EPDM seat and 316L body

CLAMP END BUTTERFLY VALVE WITH 12 POSITION PLASTIC TRIGGER HANDLE BFVTC-TP



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

* 12 position plastic trigger handle valve comes standard with EPDM seat and 304 body

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



SIZE	EPDM SEATS *		SILICONE SEATS		FKM SEATS	
	304	316L	304	316L	304	316L
1/2"	--	W6BFVTC-E-.50-PH	--	W6BFVTC-S-.50-PH	--	W6BFVTC-V-.50-PH
3/4"	--	W6BFVTC-E-.75-PH	--	W6BFVTC-S-.75-PH	--	W6BFVTC-V-.75-PH
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
8"	--	W6BFVTC-E-8-PH	--	W6BFVTC-S-8-PH	--	W6BFVTC-V-8-PH

* 4 position pull handle valve comes standard with EPDM seat

BUTTWELD BUTTERFLY VALVES

BUTT WELD BUTTERFLY VALVE WITH 12 POSITION STAINLESS STEEL TRIGGER HANDLE BFVBW-TS

NEW!



SIZE	EPDM SEATS *	SILICONE SEATS	FKM SEATS
	316L	316L	316L
1"	W6BFVBW-E-1-TS	W6BFVBW-S-1-TS	W6BFVBW-V-1-TS
1-1/2"	W6BFVBW-E-15-TS	W6BFVBW-S-15-TS	W6BFVBW-V-15-TS
2"	W6BFVBW-E-2-TS	W6BFVBW-S-2-TS	W6BFVBW-V-2-TS
2-1/2"	W6BFVBW-E-25-TS	W6BFVBW-S-25-TS	W6BFVBW-V-25-TS
3"	W6BFVBW-E-3-TS	W6BFVBW-S-3-TS	W6BFVBW-V-3-TS
4"	W6BFVBW-E-4-TS	W6BFVBW-S-4-TS	W6BFVBW-V-4-TS
6"	W6BFVBW-E-6-TS	W6BFVBW-S-6-TS	W6BFVBW-V-6-TS

* Valve comes standard with EPDM seat

BUTT WELD BUTTERFLY VALVE WITH 12 POSITION PLASTIC TRIGGER HANDLE BFVBW-TP

NEW!



SIZE	EPDM SEATS *	SILICONE SEATS	FKM SEATS
	316L	316L	316L
1"	W6BFVBW-E-1-TP	W6BFVBW-S-1-TP	W6BFVBW-V-1-TP
1-1/2"	W6BFVBW-E-15-TP	W6BFVBW-S-15-TP	W6BFVBW-V-15-TP
2"	W6BFVBW-E-2-TP	W6BFVBW-S-2-TP	W6BFVBW-V-2-TP
2-1/2"	W6BFVBW-E-25-TP	W6BFVBW-S-25-TP	W6BFVBW-V-25-TP
3"	W6BFVBW-E-3-TP	W6BFVBW-S-3-TP	W6BFVBW-V-3-TP
4"	W6BFVBW-E-4-TP	W6BFVBW-S-4-TP	W6BFVBW-V-4-TP
6"	W6BFVBW-E-6-TP	W6BFVBW-S-6-TP	W6BFVBW-V-6-TP

* Valve comes standard with EPDM seat

BUTT WELD BUTTERFLY VALVE WITH 4 POSITION PULL HANDLE BFVBW-PH

NEW!

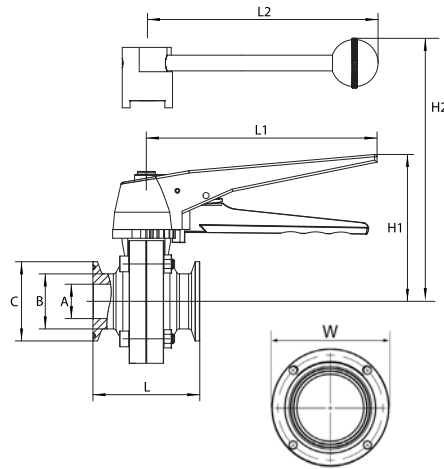


SIZE	EPDM SEATS *	SILICONE SEATS	FKM SEATS
	316L	316L	316L
1"	W6BFVBW-E-1-PH	W6BFVBW-S-1-PH	W6BFVBW-V-1-PH
1-1/2"	W6BFVBW-E-15-PH	W6BFVBW-S-15-PH	W6BFVBW-V-15-PH
2"	W6BFVBW-E-2-PH	W6BFVBW-S-2-PH	W6BFVBW-V-2-PH
2-1/2"	W6BFVBW-E-25-PH	W6BFVBW-S-25-PH	W6BFVBW-V-25-PH
3"	W6BFVBW-E-3-PH	W6BFVBW-S-3-PH	W6BFVBW-V-3-PH
4"	W6BFVBW-E-4-PH	W6BFVBW-S-4-PH	W6BFVBW-V-4-PH
6"	W6BFVBW-E-6-PH	W6BFVBW-S-6-PH	W6BFVBW-V-6-PH

* Valve comes standard with EPDM seat

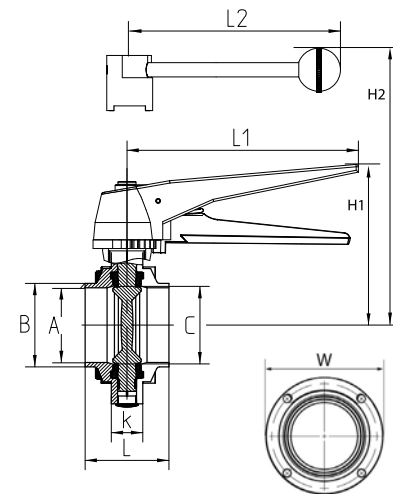
BUTTERFLY VALVE CLAMP ENDS

SIZE	A	B	C	L	L1	L2	H1	H2	W
1/2"	0.37	0.50	0.98	2.76	6.30	5.12	2.81	2.96	3.11
3/4"	0.62	0.75	0.98	2.76	6.30	5.12	2.81	2.96	3.11
1"	0.87	1.00	1.99	2.68	6.30	5.12	3.58	3.03	3.11
1-1/2"	1.37	1.50	1.99	2.76	6.30	5.12	3.78	3.15	3.35
2"	1.87	2.00	2.52	2.99	6.30	5.12	3.86	3.46	3.94
2-1/2"	2.37	2.50	3.05	3.30	6.30	5.90	4.21	3.74	4.33
3"	2.87	3.00	3.58	3.30	6.30	5.90	4.53	4.02	4.92
4"	3.83	4.00	4.68	3.62	6.30	6.30	4.92	4.68	6.10
6"	5.78	6.00	6.57	4.33	8.27	8.46	6.30	6.30	8.46
8"	7.78	8.00	8.56	3.54	11.18	11.18	7.03	7.03	11.09



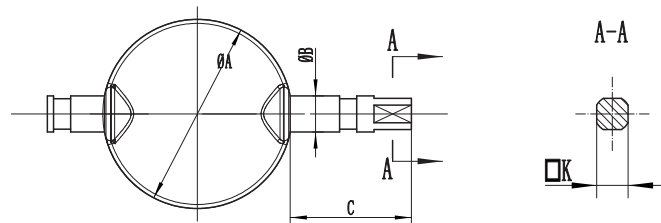
BUTTERFLY VALVE BUTTWELD ENDS

SIZE	A	B	C	K	L	L1	L2	H1	H2	W
1"	0.87	1	0.91	0.87	1.97	6.30	5.51	3.58	3.03	3.11
1-1/2"	1.37	1.5	1.38	0.87	1.97	6.30	5.51	3.78	3.15	3.35
2"	1.87	2	1.90	0.87	2.05	6.30	5.51	3.86	3.46	3.94
2-1/2"	2.37	2.5	2.36	0.87	2.20	6.30	5.91	4.21	3.74	4.33
3"	2.87	3	2.83	0.87	2.20	6.30	5.91	4.53	4.02	4.92
4"	3.83	4	3.94	0.87	2.36	6.30	6.30	4.92	4.68	6.10
6"	5.78	6	5.91	1.02	3.54	7.48	8.46	6.30	6.30	8.46



BUTTERFLY VALVE DISC & STEM DIMENSIONS

SIZE	K	ØA	ØB	C
1/2"	0.31	0.81	0.39	1.46
3/4"	0.31	0.81	0.39	1.46
1"	0.31	0.91	0.39	1.57
1-1/2"	0.31	1.38	0.39	1.45
2"	0.31	1.89	0.39	1.53
2-1/2"	0.39	2.36	0.47	1.46
3"	0.39	2.83	0.47	1.57
4"	0.39	3.94	0.47	1.57
6"	0.55	5.91	0.67	2.16
8"	0.63	7.87	0.79	2.05



ITEM	DESCRIPTION	MATERIAL
01	Valve Body	304/316L
02	Seat	Silicone / EPDM / FKM
03	Disc	304 / 316L
04	Bushing*	Plastic
05	Nut	304
06	Bolt	304
07	Handle Plate	304
08	Handle	Plastic / 304
09	Plastic Plug	Plastic
10	Bolt	304

Repair Kit Contains:

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

*Replacement bushing kit available:
1"-2" BFV-B-1/15/2-KIT
2.5"-4" BFV-B-25/3/4-KIT

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
1/2"	W6BFV-RK-E-.50	WBFV-ST-E-.50	W6BFV-RK-S-.50	WBFV-ST-S-.50	W6BFV-RK-V-.50	WBFV-ST-V-.50
3/4"	W6BFV-RK-E-.75	WBFV-ST-E-.75	W6BFV-RK-S-.75	WBFV-ST-S-.75	W6BFV-RK-V-.75	WBFV-ST-V-.75
1"	W6BFV-RK-E-1	WBFV-ST-E-1	W6BFV-RK-S-1	WBFV-ST-S-1	W6BFV-RK-V-1	WBFV-ST-V-1
1-1/2"	W6BFV-RK-E-15	WBFV-ST-E-15	W6BFV-RK-S-15	WBFV-ST-S-15	W6BFV-RK-V-15	WBFV-ST-V-15
2"	W6BFV-RK-E-2	WBFV-ST-E-2	W6BFV-RK-S-2	WBFV-ST-S-2	W6BFV-RK-V-2	WBFV-ST-V-2
2-1/2"	W6BFV-RK-E-25	WBFV-ST-E-25	W6BFV-RK-S-25	WBFV-ST-S-25	W6BFV-RK-V-25	WBFV-ST-V-25
3"	W6BFV-RK-E-3	WBFV-ST-E-3	W6BFV-RK-S-3	WBFV-ST-S-3	W6BFV-RK-V-3	WBFV-ST-V-3
4"	W6BFV-RK-E-4	WBFV-ST-E-4	W6BFV-RK-S-4	WBFV-ST-S-4	W6BFV-RK-V-4	WBFV-ST-V-4
6"	W6BFV-RK-E-6	WBFV-ST-E-6	W6BFV-RK-S-6	WBFV-ST-S-6	W6BFV-RK-V-6	WBFV-ST-V-6
8"	W6BFV-RK-E-8	WBFV-ST-E-8	W6BFV-RK-S-8	WBFV-ST-S-8	W6BFV-RK-V-8	WBFV-ST-V-8

*Repair kits contain 316L discs. Compatible with 304 valves.

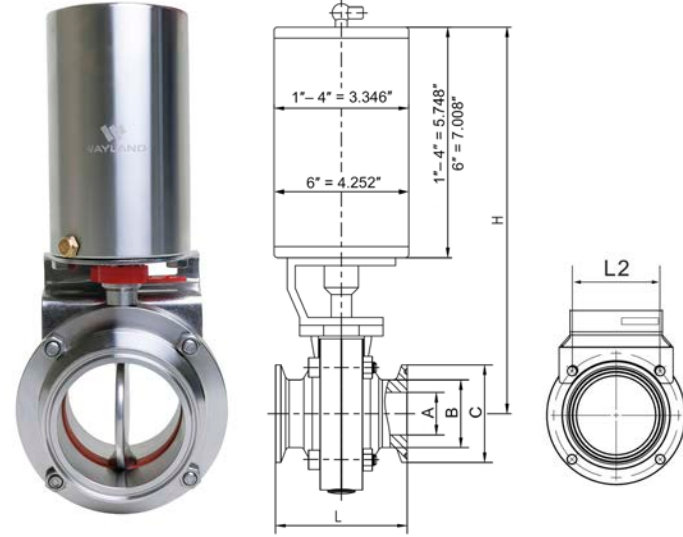
BUTTERFLY VALVE HANDLE REPLACEMENTS

SIZE	304 STAINLESS 12-POSITION TRIGGER HANDLE	BLACK PLASTIC 12-POSITION TRIGGER HANDLE	4 POSITION PULL HANDLE
1/2"	WBFV-TS-.50/.75	N/A	WBFV-PH-.50/.75
3/4"			
1"	WBFV-TS-1/15/2	WBFV-TP-1/15/2	WBFV-PH-1/15/2
1-1/2"			
2"	WBFV-TS-25/3/4	WBFV-TP-25/3/4	WBFV-PH-25/3
2-1/2"			
3"	WBFV-TS-6	N/A	WBFV-PH-4
4"			WBFV-PH-6
6"	N/A	N/A	WBFV-PH-8
8"			

ACTUATED BUTTERFLY VALVES

FEATURES:

- Material: T304 Stainless Steel
- Field Serviceable
- All wetted surfaces are $\leq 32R_a$
- Air Supply Pressure: 80 – 100 PSI
- Weight (actuator only): 1" - 4" = 5.95 lbs.
6" = 11.12 lbs.
- Air Fitting Ports: 1/8" FNPT tap
- Air Hose Size: 1/4"
- Can be mounted on 1" through 6" butterfly valves
- Available in "Normally Open", "Normally Closed" & "Double Acting" actuation



ACTUATED BUTTERFLY VALVES

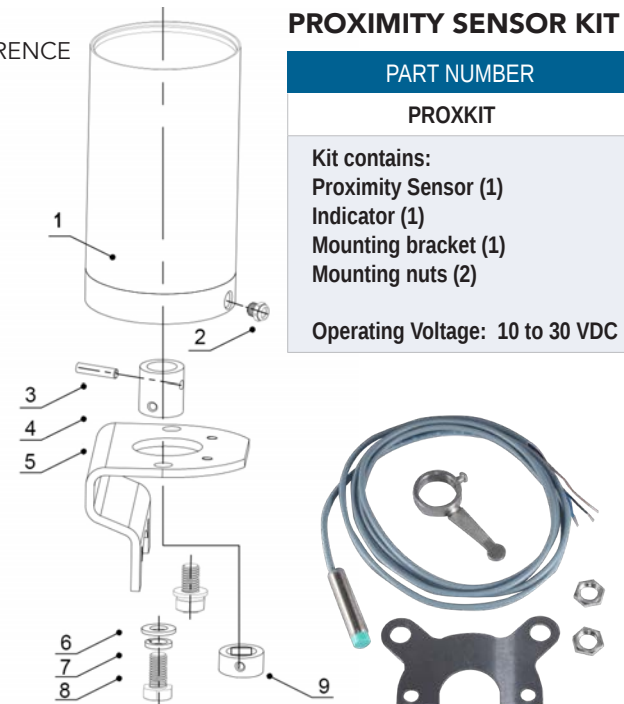
SIZE	DIMENSIONS						PART NUMBERS*		
	A	B	C	L	H	L2	SPRING RETURN OPEN	SPRING RETURN CLOSED	DUAL ACTING
1"	0.87	1.00	1.99	2.68	8.94	1.85	W6BFVTC-E-1-SRO	W6BFVTC-E-1-SRC	W6BFVTC-E-1-DA
1-1/2"	1.37	1.50	1.99	2.76	9.09	2.05	W6BFVTC-E-15-SRO	W6BFVTC-E-15-SRC	W6BFVTC-E-15-DA
2"	1.87	2.00	2.52	2.99	9.33	2.36	W6BFVTC-E-2-SRO	W6BFVTC-E-2-SRC	W6BFVTC-E-2-DA
2-1/2"	2.37	2.50	3.05	3.31	9.53	2.76	W6BFVTC-E-25-SRO	W6BFVTC-E-25-SRC	W6BFVTC-E-25-DA
3"	2.87	3.00	3.58	3.31	11.14	3.05	W6BFVTC-E-3-SRO	W6BFVTC-E-3-SRC	W6BFVTC-E-3-DA
4"	3.83	4.00	4.68	3.62	11.61	3.86	W6BFVTC-E-4-SRO	W6BFVTC-E-4-SRC	W6BFVTC-E-4-DA
6"	5.83	6.00	6.57	4.33	12.83	3.90	W6BFVTC-E-6-SRO	W6BFVTC-E-6-SRC	W6BFVTC-E-6-DA

- * REPLACE E (EPDM) WITH S (SILICONE) OR V (FKM) FOR SEAT PREFERENCE
- * REPLACE W6 (316L) WITH W4 (304) FOR ALLOY PREFERENCE
- * REPLACE TC (TRI CLAMP) WITH BW (BUTT WELD) FOR END PREFERENCE

INDIVIDUAL VERTICAL CANISTER ACTUATOR PART NUMBERS

SPRING RETURN	DUAL ACTING
W4CVA-SR-(size)	W4CVA-DA-(size)

ITEM	DESCRIPTION	MATERIAL	QNTY
1	Actuator Body	304	1
2	Muffler	H62	1
3	Connecting Pin	304	1
4	Shaft Coupler	304	1
5	Support Bracket	304	1
6	Washer	65Mn	2
7	Washer	304	2
8	Hexagon Bolt	304	2
9	Position Indicator	Plastic / 304	1



PROXIMITY SENSOR KIT

PART NUMBER

PROXKIT

Kit contains:
Proximity Sensor (1)
Indicator (1)
Mounting bracket (1)
Mounting nuts (2)

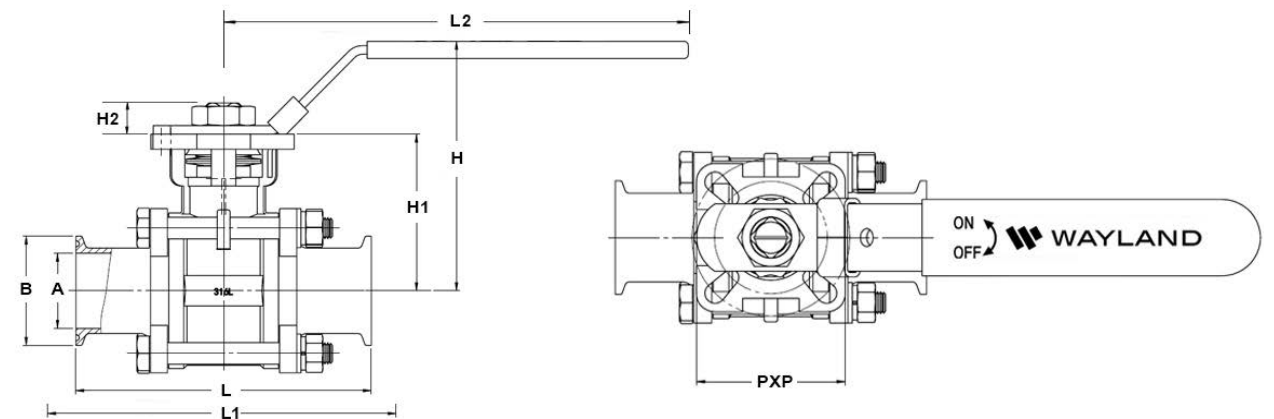
Operating Voltage: 10 to 30 VDC

ENCAPSULATED 2-WAY BALL VALVES

FEATURES:

- Material: CF3M (316L) stainless steel
- ID polish is $\leq 32R_a$
- Blow-out proof stem
- Full port design offers lower pressure drop and less turbulent flow
- Precision stainless steel solid ball reduces torque and friction loss while extending seat life
- All ball valves utilize silicone free lubricant
- ISO 5211 mounting pad for direct mount automation
- Pressure Rating (Body): 1/2" ~ 2" 1000PSI WOG
2-1/2" ~ 4" 800PSI WOG
6" 700PSI WOG
- Vacuum service to 29 inches Hg
- Live-loaded stem packing
- Lockable handle can prevent accidental opening and closing
- Valve body surface is electropolished to improve corrosion resistance

- Fully encapsulated construction
- 100% tested
- Stocked with clamp ends and extended buttweld ends
- Other end connections available upon request
- PTFE seats and gaskets are compliant with FDA specifications



DIMENSIONS (inches)

SIZE	A	B	L	L1*	L2	H2	H1	H	PXP	ISO 5211	STEM SIZE
1/2"	0.37	0.99	3.54	4.72	5.12	0.33	1.42	2.68	1.654 X 1.654	F03 & F04	0.35 X 0.35
3/4"	0.62	0.99	4.02	6.14	5.12	0.51	1.67	2.68	1.654 X 1.654	F03 & F04	0.35 X 0.35
1"	0.87	1.99	4.53	6.46	6.69	0.49	2.07	3.54	1.969 X 1.969	F04 & F05	0.43 X 0.43
1-1/2"	1.37	1.99	5.43	7.64	7.09	0.57	2.85	4.61	2.559 X 2.559	F05 & F07	0.55 X 0.55
2"	1.87	2.52	6.14	8.74	8.46	0.57	3.13	4.92	2.559 X 2.559	F05 & F07	0.55 X 0.55
2-1/2"	2.37	3.05	6.69	9.25	9.84	0.59	3.74	5.51	2.559 X 2.559	F05 & F07	0.55 X 0.55
3"	2.87	3.58	7.76	9.76	12.79	0.81	4.35	6.10	3.563 X 3.563	F07 & F10	0.67 X 0.67
4"	3.83	4.68	9.53	12.80	12.95	0.87	5.04	6.89	3.563 X 3.563	F07 & F10	0.87 X 0.87
6"	5.78	6.57	15.51	--	26.77	1.10	8.66	9.65	4.685 X 4.685	F10 & F12	1.063 X 1.063

*Extended Butt Weld End

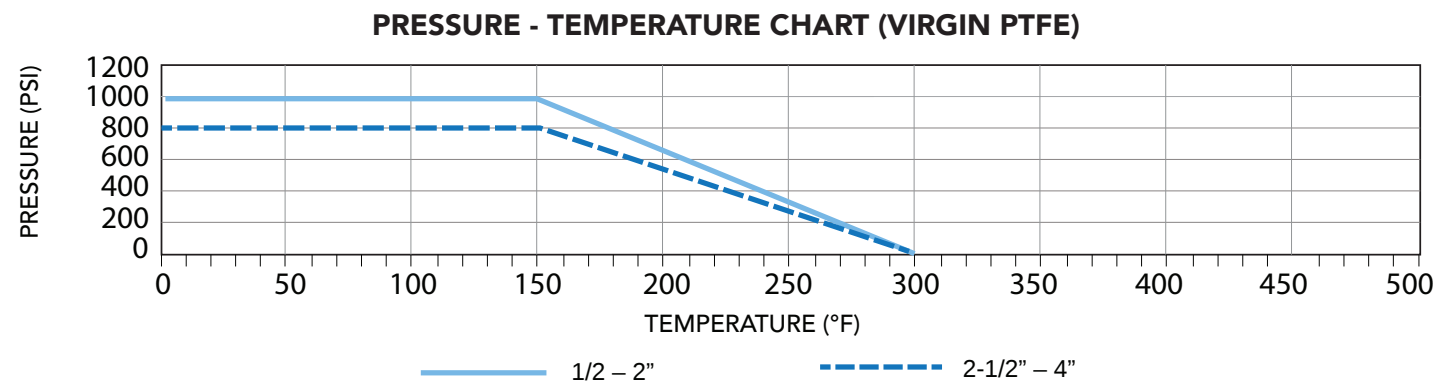
ENCAPSULATED 2-WAY BALL VALVES

NEW!

ENCAPSULATED 2-WAY BALL VALVES BVETC

SEAT MATERIAL	SIZE	WEIGHT (lbs.)	BREAK TORQUE* (in. lbs.)	CLAMP END PART NUMBER	EXTENDED BUTTWELD PART NUMBER
VIRGIN PTFE	1/2"	1.20	124	W6BVETC-P-.50	W6BVEBWE-P-.50
	3/4"	1.70	124	W6BVETC-P-.75	W6BVEBWE-P-.75
	1"	3.10	159	W6BVETC-P-1	W6BVEBWE-P-1
	1-1/2"	5.70	257	W6BVETC-P-15	W6BVEBWE-P-15
	2"	8.60	332	W6BVETC-P-2	W6BVEBWE-P-2
	2-1/2"	14.40	518	W6BVETC-P-25	W6BVEBWE-P-25
	3"	27.25	788	W6BVETC-P-3	W6BVEBWE-P-3
	4"	44.00	885	W6BVETC-P-4	W6BVEBWE-P-4
	6"	148.00	1947	W6BVETC-P-6	W6BVEBWE-P-6

* Torque required to fully open and close valve



HOW TO ORDER

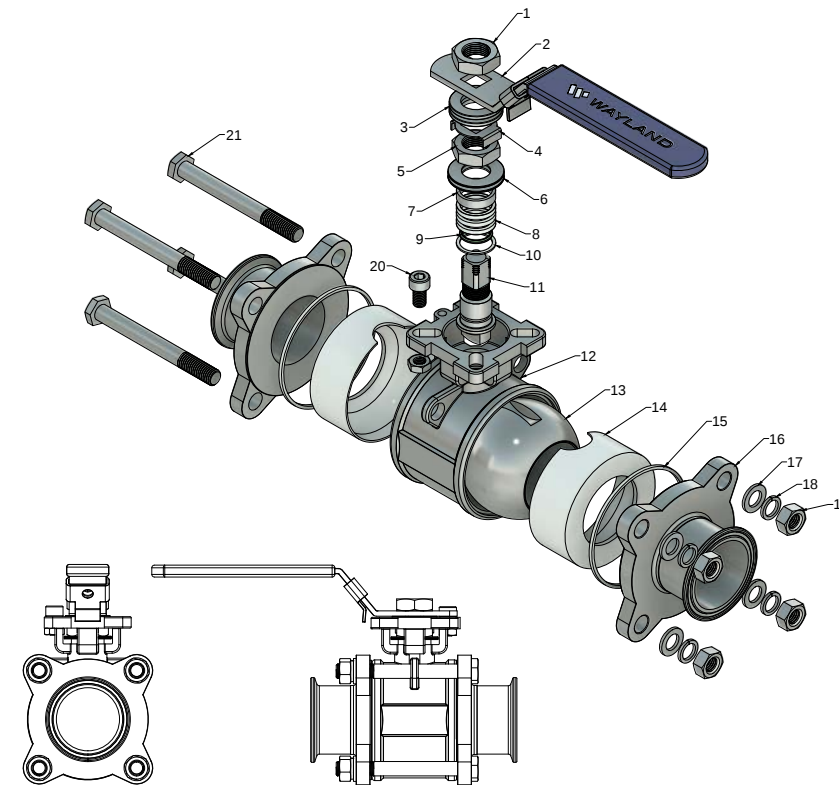
W + Alloy + Product Code + Encapsulated + Ends - Seat - Size (in.)

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

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



ENCAPSULATED 2-WAY BALL VALVES



ITEM	DESCRIPTION	MATERIAL	QNTY
1	Handle Nut	304	1
2	Handle	304	1
3	Flat Washer	304	2
4	Lock Tab Washer	304	1
5	Packing Nut	304	1
6	Belleville Washer	304	2
7	Packing Bushing	304	1
8	Triple Packing	PTFE	3
9	O-Ring	FKM	1
10	Stem Seal	PTFE	1
11	Stem	316L	1
12	Valve Body	316L	1
13	Ball	316L	1
14	Seat	PTFE	2
15	Body Seal	PTFE	2
16	End Piece	316L	2
17	Washer	304	4
18	Lock Washer	304	4
19	Hex Nut	304	4
20	Stop Pin	304	1
21	Body Bolt	304	4

ENCAPSULATED BALL VALVE REPAIR KITS

SIZE	REPAIR KITS PART NUMBER	REPLACEMENT HANDLES PART NUMBER
1/2"	WBVE-RK-P-.50	WBV-H-.50
3/4"	WBVE-RK-P-.75	WBV-H-.75
1"	WBVE-RK-P-1	WBV-H-1
1.5"	WBVE-RK-P-15	WBV-H-15
2"	WBVE-RK-P-2	WBV-H-2
2.5"	WBVE-RK-P-25	WBV-H-25
3"	WBVE-RK-P-3	WBV-H-3
4"	WBVE-RK-P-4	WBV-H-4
6"	WBVE-RK-P-6	WBV-H-6

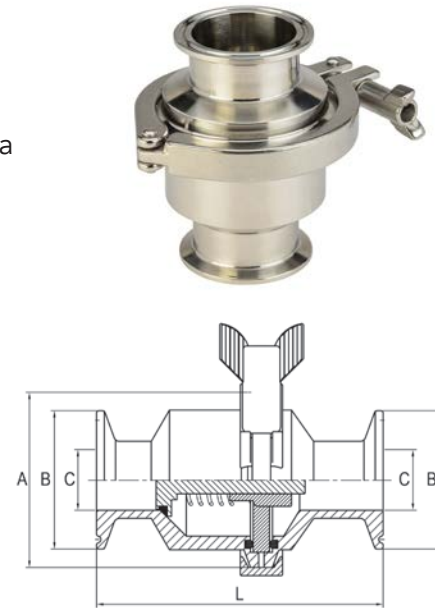
Repair Kit Contains:

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

SPRING CHECK VALVES

FEATURES:

- Forged 316L stainless steel
- Low resistance to flow
- Suitable for low and medium viscosity fluids
- Full size flow plate
- Long stem bushing for longer 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
- 3A certified (58-02) #3773



SPRING CHECK VALVES 45MP

SIZE	A	B	C	L	CRACKING PRESSURE (PSI)*	316L PART NUMBER		
						SILICONE	FKM	EPDM
1/2"	1.99	0.98	0.37	3.50	3.5	W645MP-S-.50	W645MP-V-.50	W645MP-E-.50
3/4"	2.52	0.98	0.62	3.50	1.8	W645MP-S-.75	W645MP-V-.75	W645MP-E-.75
1"	2.52	1.99	0.87	4.13	4.2	W645MP-S-1	W645MP-V-1	W645MP-E-1
1-1/2"	3.05	1.99	1.37	4.56	2.8	W645MP-S-15	W645MP-V-15	W645MP-E-15
2"	3.58	2.52	1.87	5.06	1.3	W645MP-S-2	W645MP-V-2	W645MP-E-2
2-1/2"	4.17	3.05	2.37	5.37	1.3	W645MP-S-25	W645MP-V-25	W645MP-E-25
3"	4.68	3.58	2.87	6.13	0.5	W645MP-S-3	W645MP-V-3	W645MP-E-3
4"	5.69	4.68	3.84	8.13	0.5	W645MP-S-4	W645MP-V-4	W645MP-E-4
6"	8.54	6.57	5.78	10.16	0.6	W645MP-S-6	W645MP-V-6	W645MP-E-6

* Based on vertical application

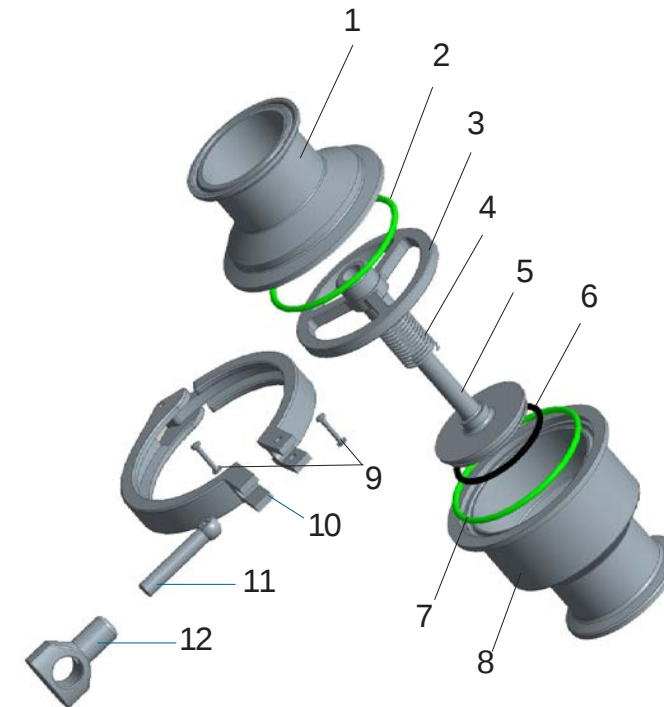
HOW TO ORDER

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	Upper valve body	316L	1
2	Body O-ring	Silicone / FKM / EPDM	1
3	Spider Sprocket	316L	1
4	Spring	316L	1
5	Plunger	316L	1
6	Plunger O-ring	Silicone / FKM / EPDM	1
7	Body O-ring	Silicone / FKM / EPDM	1
8	Lower Valve Body	316L	1
9	Pin	304	2
10	Clamp	304	1
11	Bolt	304	1
12	Wingnut	304	1

SPRING CHECK VALVE REPLACEMENT SEATS

SIZE	SILICONE (RED)	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
6"	W45MP-ST-S-6	W45MP-ST-V-6	W45MP-ST-E-6

- Include (2) Body O-rings and (1) Plunger O-ring

Y-BALL CHECK VALVES

NEW!

FEATURES:

- All metal product contact surface are 316L stainless steel
- Polished 32R_a finish on all wetted surfaces
- PTFE ball
- Two-piece construction
- Repair kits available for seal kits and PTFE ball
- Available with either EPDM or FKM seat material
- Field serviceable (no special tools required)
- Maximum operating pressure 150 PSI
- Operating temperature range 15°F to 200°F
- 3A certified (58-02) #3773



SPECIFICATIONS

VALVE SIZE	WEIGHT (lbs.)	CAP SIZE	CLAMP SIZE	CAP GASKET	BALL DIAMETER	CRACKING PRESSURE INCHES (H ₂ O)		SEATING PRESSURE (PSI)		FLOW COEFFICIENT (C _v)
						VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	
1-1/2"	4.9	2.0	2.0	2.0	1.6	2.0	0.5	3.6	3.9	60
2"	6.6	2.5	2.5	2.5	2.1	2.5	0.5	2.6	3.7	80
2-1/2"	10.5	3.0	3.0	3.0	2.7	3.0	0.5	1.6	2.4	100
3"	17.5	4.0	4.0	4.0	3.6	3.8	0.5	1.9	2.6	140

Y-BALL CHECK VALVES 45BY 3

VALVE SIZE	EPDM	FKM
1-1/2"	W645BY-E-15	W645BY-V-15
2"	W645BY-E-2	W645BY-V-2
2-1/2"	W645BY-E-25	W645BY-V-25
3"	W645BY-E-3	W645BY-V-3

REPLACEMENT PARTS

VALVE SIZE	SEAL KITS EPDM	SEAL KITS FKM	REPLACEMENT BALL PTFE
1-1/2"	W45BY-ST-E-15	W45BY-ST-V-15	W45BY-B-15
2"	W45BY-ST-E-2	W45BY-ST-V-16	W45BY-B-2
2-1/2"	W45BY-ST-E-25	W45BY-ST-V-17	W45BY-B-25
3"	W45BY-ST-E-3	W45BY-ST-V-18	W45BY-B-3

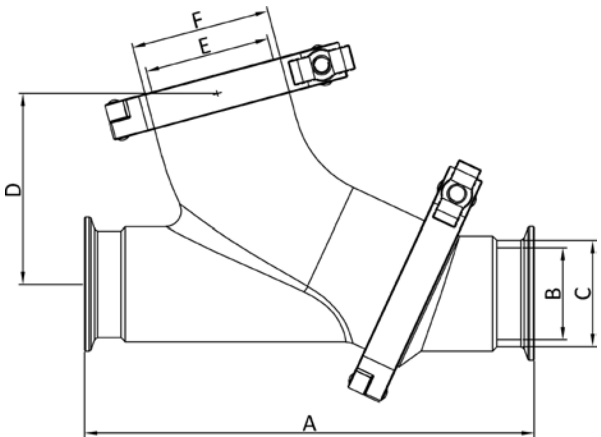
• Seal kit includes (1) EPDM/FKM cap gasket and (1) EPDM/FKM/CF8M Seat

SIZING CHART

When using air blow check valves with ball check valves, refer to the sizing chart

BALL CHECK VALVE SIZE	AIR BLOW CHECK VALVE SIZE
1-1/2"	2"
2"	2-1/2"
2-1/2"	3"
3"	4"

Y-BALL CHECK VALVES



DIMENSIONS (inches)

SIZE	A	B	C	D	E	F
1-1/2"	7.5	1.37	1.5	3.3	1.9	2.5
2"	8.5	1.87	2.0	3.9	2.3	3.0
2-1/2"	10	2.37	2.5	4.5	2.9	3.6
3"	11.5	2.87	3.0	5.3	3.8	4.7



ITEM	DESCRIPTION	MATERIAL	QTY
1	Angle Body	316L	1
2	Inlet Body	316L	1
3	Single Pin Clamp	CF8	2
4	End Cap	316L	1
5	Cap Gasket	EPDM / FKM	1
6	Ball	PTFE	1
7	Seat	EPDM or FKM / 316L	1



AIR BLOW CHECK VALVE

NEW!



FEATURES:

- All metal product contact surfaces are 316L
- Compatible with Wayland Y-Ball Check Valve
- Polished 32R_a finish on all wetted surfaces
- EPDM stem seat and gasket
- Available with 3 end-connections: quick-connect, female NPT, and hose barb
- Field serviceable (no special tools required)
- Maximum operating pressure: 145 PSI
- Maximum operating temperature: 212°F
- 3A certified (58-02) #3773

AIR BLOW CHECK VALVE PART NUMBERS



VALVE SIZE	QUICK-CONNECT	FNPT	HOSE BARB
1-1/2"	W645AB-1/15-QC	W645AB-1/15-FNPT	W645AB-1/15-HB
2"	W645AB-2-QC	W645AB-2-FNPT	W645AB-2-HB
2-1/2"	W645AB-25-QC	W645AB-25-FNPT	W645AB-25-HB
3"	W645AB-3-QC	W645AB-3-FNPT	W645AB-3-HB
4"	W645AB-4-QC	W645AB-4-FNPT	W645AB-4-HB

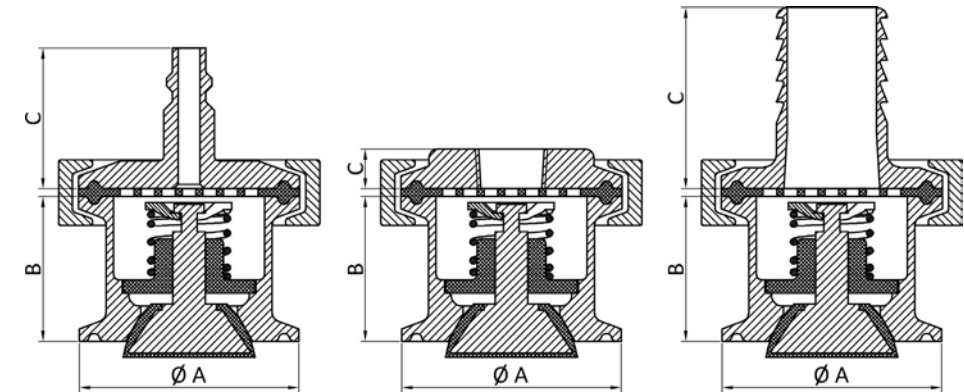


SIZING CHART

When using air blow check valves with ball check valves, refer to the sizing chart

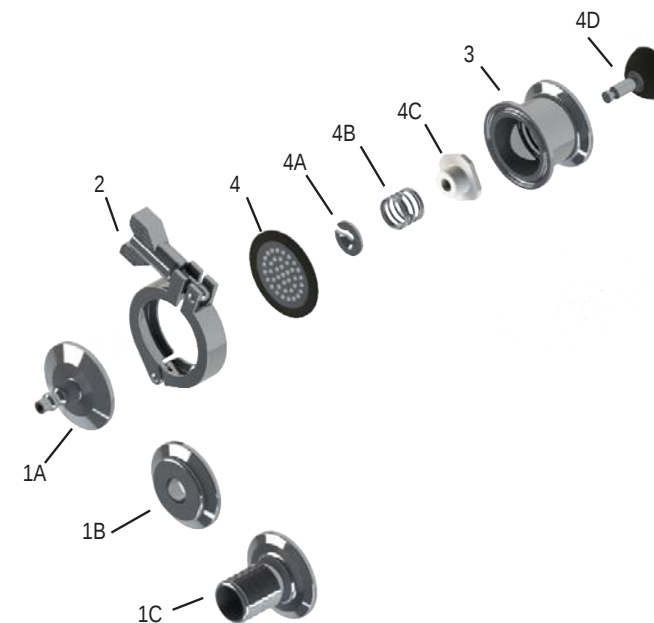
BALL CHECK VALVE SIZE	AIR BLOW CHECK VALVE SIZE
1-1/2"	2"
2"	2-1/2"
2-1/2"	3"
3"	4"

AIR BLOW CHECK VALVE



DIMENSIONS (inches)

SIZE	A	B	C (QUICK CONNECT)	C (FNPT)	C (HOSE BARB)
1-1/2"	1.98	1.30	1.26	0.6	1.7
2"	2.51	1.30	1.26	0.6	1.7
2-1/2"	3.05	1.30	1.26	0.6	1.7
3"	3.58	1.30	1.26	0.6	1.7
4"	4.68	1.30	1.26	0.6	1.7



ITEM	DESCRIPTION	MATERIAL	QTY
1A	1/4" Air Line Quick Connect	316L	1
1B	1/2" NPT Cap	316L	1
1C	1" Hose Barb	316L	1
2	Single Pin Clamp	CF8	1
3	Valve Body	316L	1
4	Perforated Disc	EPDM / 316L	1
4A	Spring Retainer	304	1
4B	Spring	304	1
4C	Stem Guide	Nylon	1
4D	Stem and Plug	316L / EPDM	1

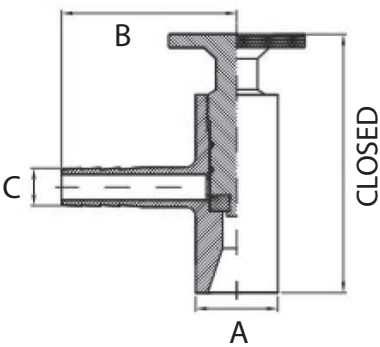
SAMPLE VALVES

- FEATURES:**
- 304 stainless steel
 - Double silicone O-rings
 - PTFE seat ensures a leak-proof shutoff
 - Surface finish polished to sanitary standards
 - Temperature rating: 300°F
 - Pressure rating: 200 PSI
 - Sample port is a hose barb connection

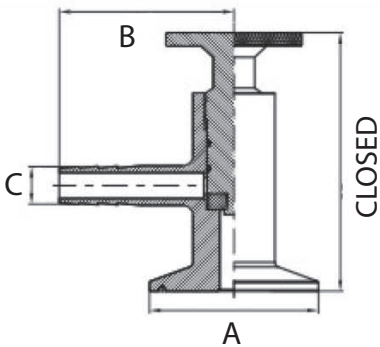


SAMPLE VALVES SVW

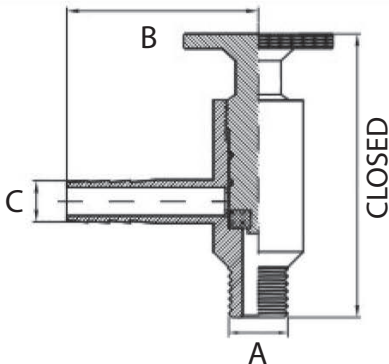
SIZE.	STYLE	SEAT MATERIAL	A	B	C	CLOSED	WEIGHT (LBS)	304 PART NUMBER
1"	BUTT-WELD	PTFE	1.00	2.05	0.47	3.50	0.794	W4SVWW-P-1
1"	CLAMP	PTFE	1.99	2.05	0.47	3.50	0.838	W4SVWC-P-1
3/8"	NPT	PTFE	0.67	2.05	0.47	3.50	0.794	W4SVWN-P-.375



WELD STYLE



CLAMP STYLE



NPT STYLE

HOW TO ORDER

W + Alloy + Product Code + Ends - Seat - Size (in.)
4 = 304 SVW=Sample Valve C = Tri-Clamp P=PTFE 1
W = Butt-Weld N = NPT .375 (NPT)

Example:

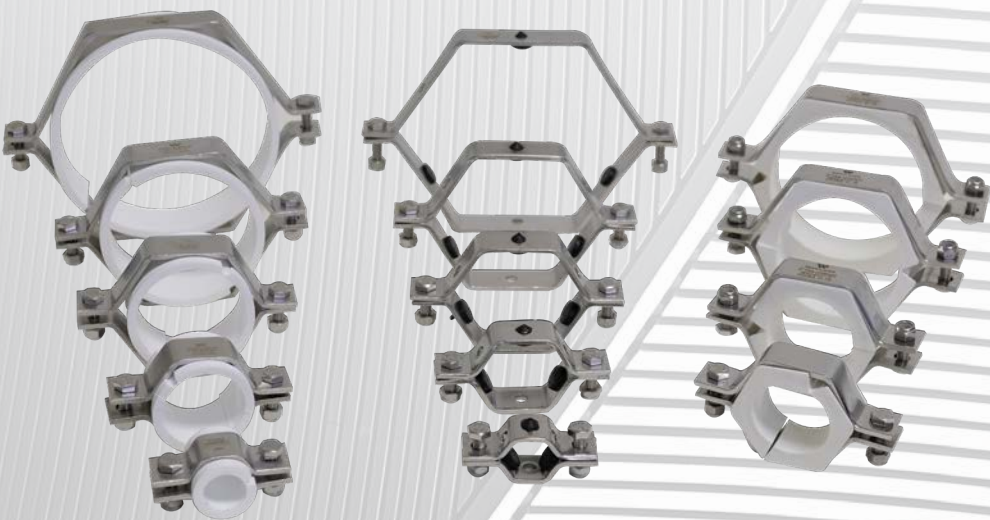
W + 4 + SVW + C - P - 1
(W4SVWC-P-1)

Sanitary
TUBE AND PIPE HANGERS

Wayland sanitary pipe and tube hangers are designed to support process lines in both horizontal and vertical applications and can be installed in a variety of methods either suspended from a rod or welded directly to a surface.

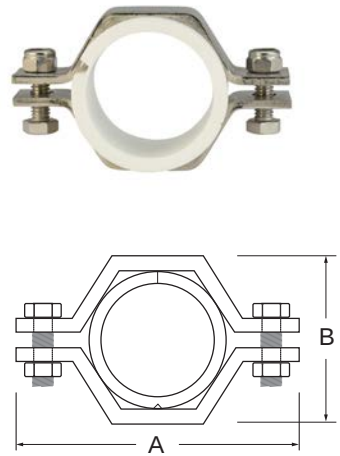
FEATURES:

- Size Range: ½" through 12" (tube & pipe sizes)
- Alloys Available: 304 (brackets and hardware)
- Surface Finish: Tumbled
- Plastic Inserts: PVC, Polypropylene, or Polysulfone for high temperature environments
- Grommets: EPDM (Viton for high temperature requirements)



TUBE HEX HANGERS

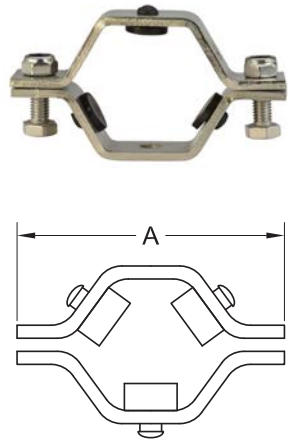
HEX TUBE HANGERS WITH PVC SLEEVE PVCT



TUBE O.D.	A	B	BOX QUANTITY	304 PART NUMBER	PVC COLLAR ONLY
1/2"	2.52	1.00	140	PVCT-.50	PVCTSLV-.50
3/4"	2.94	1.24	130	PVCT-.75	PVCTSLV-.75
1"	3.13	1.50	125	PVCT-1	PVCTSLV-1
1-1/2"	3.70	2.00	100	PVCT-15	PVCTSLV-15
2"	4.28	2.50	100	PVCT-2	PVCTSLV-2
2-1/2"	4.80	2.96	90	PVCT-25	PVCTSLV-25
3"	5.45	3.50	75	PVCT-3	PVCTSLV-3
4"	6.70	4.50	50	PVCT-4	PVCTSLV-4
6"	9.20	6.30	25	PVCT-6	PVCTSLV-6
8"	11.50	8.62	15	PVCT-8	PVCTSLV-8
10"	14.50	10.50	--	PVCT-10	PVCTSLV-10
12"	16.62	13.00	--	PVCT-12	PVCTSLV-12

- Temperature Range: 5°F to 175°F
- Imperial - 5/16"-18 Bolts and Nuts
- Replacement nuts and bolts are available
- Replacement PVC inserts are available

HEX TUBE HANGERS WITH GROMMETS RGHT



TUBE O.D.	A	304 PART NUMBER
1/2"	3.42	RGHT-.50
3/4"	3.42	RGHT-.75
1"	3.62	RGHT-1
1-1/2"	3.62	RGHT-15
2"	4.31	RGHT-2
2-1/2"	4.87	RGHT-25
3"	5.50	RGHT-3
4"	6.56	RGHT-4
6"	9.00	RGHT-6
8"	11.50	RGHT-8
10"	14.50	RGHT-10
12"	16.63	RGHT-12

- Temperature Range: -22°F to 158°F
- Rubber Grommets are EPDM
- Imperial - 5/16"-18 Bolts and Nuts
- Replacement grommets are available

REPLACEMENT PARTS AVAILABLE



PVCTSLV



HEX-BN



RGKIT

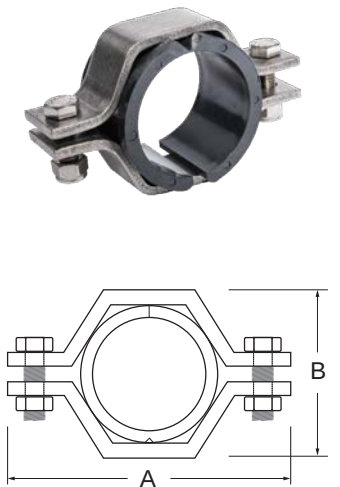
TUBE HEX HANGERS

HEX TUBE HANGERS WITH HIGH TEMPERATURE POLYSULFONE SLEEVE

24HS **NEW!**

TUBE O.D.	A	B	304 PART NUMBER
1/2"	2.25	1.06	W424HS-.50
3/4"	2.63	1.19	W424HS-.75
1"	3.38	1.56	W424HS-1
1-1/2"	3.75	2.13	W424HS-15
2"	4.44	2.63	W424HS-2
2-1/2"	4.94	3.13	W424HS-25
3"	5.56	3.63	W424HS-3
4"	6.63	4.63	W424HS-4
5"	8.13	5.63	W424HS-5
6"	9.19	6.63	W424HS-6

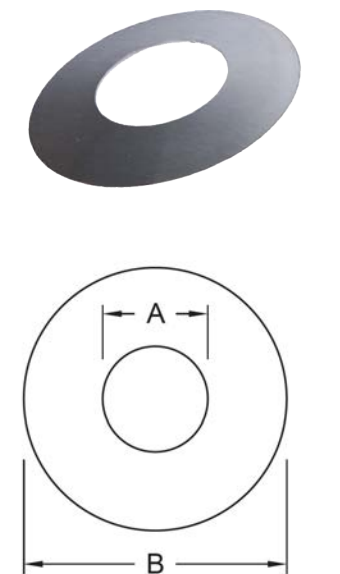
- High temperature sleeve max temp: 325°F



WALL FLANGES 25WF

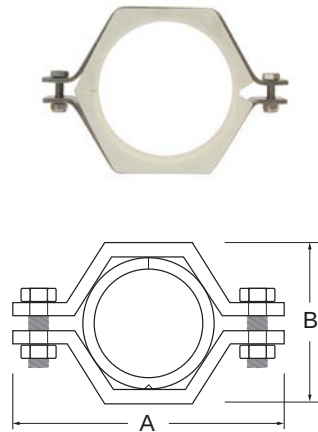
NEW!

TUBE O.D.	A	B	Nominal Wall Thickness	304 PART NUMBER
1/2"	.50	3.00	0.065	W425WF-.50X3
	.50	5.00	0.065	W425WF-.50X5
3/4"	.75	3.00	0.065	W425WF-.75X3
	.75	5.00	0.065	W425WF-.75X5
1"	1.00	3.00	0.065	W425WF-1X3
	1.00	5.00	0.065	W425WF-1X5
1-1/2"	1.50	5.00	0.065	W425WF-15X5
2"	2.00	5.00	0.065	W425WF-2X5
2-1/2"	2.50	5.00	0.065	W425WF-25X5
3"	3.00	6.00	0.065	W425WF-3X6
4"	4.00	7.00	0.065	W425WF-4X7
5"	5.00	8.00	0.065	W425WF-5X8
6"	6.00	10.00	0.065	W425WF-6X10
8"	8.00	12.00	0.065	W425WF-8X12
10"	10.00	14.00	0.065	W425WF-10X14
12"	12.00	16.00	0.065	W425WF-12X16



PIPE HANGERS

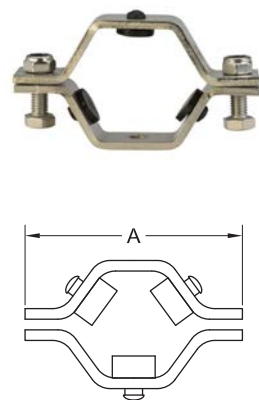
HEX PIPE HANGERS WITH POLYPROPYLENE SLEEVE 24PV



PIPE SIZE	A	B	PART NUMBER
1/2"	3.38	1.63	W424PV-.50
3/4"	3.38	1.63	W424PV-.75
1"	3.75	1.88	W424PV-1
1-1/2"	4.44	2.63	W424PV-15
2"	4.94	3.13	W424PV-2
2-1/2"	5.56	3.78	W424PV-25
3"	6.06	4.25	W424PV-3
4"	7.50	5.18	W424PV-4
5"	8.50	6.38	W424PV-5
6"	9.88	7.38	W424PV-6
8"	11.38	9.38	W424PV-8
10"	15.38	11.50	W424PV-10
12"	17.50	13.88	W424PV-12

- Temperature Range: -22°F to 212°F
- 1/2" through 4" sizes have hex style inserts
- Sizes 5" and up have circular inserts

HEX PIPE HANGERS WITH GROMMETS 24RV



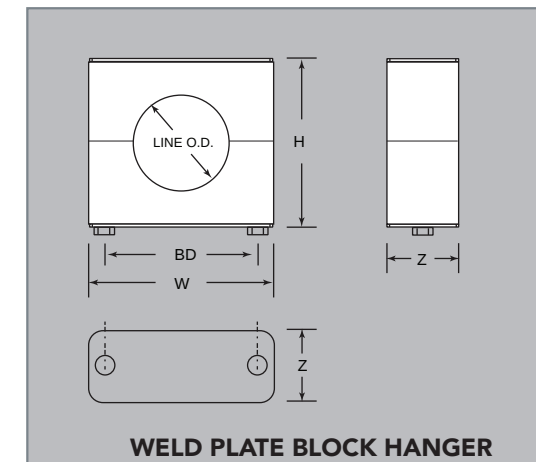
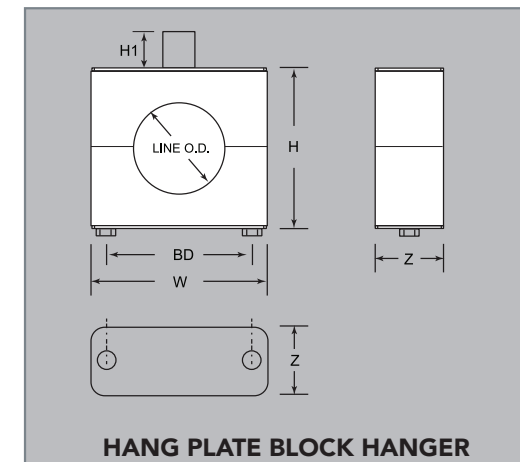
PIPE SIZE	A	PART NUMBER
1/2"	3.38	W424RV-.50
3/4"	3.38	W424RV-.75
1"	3.75	W424RV-1
1-1/4"	3.75	W424RV-1.25
1-1/2"	4.44	W424RV-15
2"	4.94	W424RV-2
2-1/2"	5.56	W424RV-25
3"	6.06	W424RV-3
4"	7.50	W424RV-4
5"	8.50	W424RV-5
6"	9.88	W424RV-6
8"	11.38	W424RV-8
10"	15.38	W424RV-10
12"	17.50	W424RV-12

- 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

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



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

- Materials: 304 and 316 stainless steels
- Inserts are FDA grade silicone rubber
- Specifications: Intermittent temperature from -40°F to 320°F
- Continuous temperatures from -20°F to 302°F.



FLANGES AND STUB ENDS

Wayland offers a comprehensive line of flanges and stub ends for more traditional piping systems. Flanges can either be welded directly to the tubing in a fixed position or use a stub end which will allow the flange to be rotated to facilitate alignment and speed up the installation process. All Wayland flanges are constructed from precision forgings which provide superior resistance to vibration and hammering which extends the life cycle.

FEATURES:

- Options: Slip On, Weld-Neck and Flange to Clamp Adapter
- Size Range: 1/2" through 12"
- Alloys Available: 304 & 316L
- Surface Finish: Machined to 32R_a
- Specifications: ASTM A182

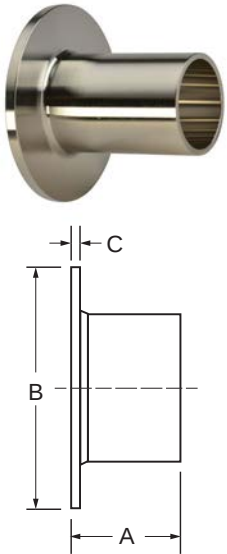


STUB ENDS

TYPE A STUB ENDS - MACHINE FINISH 14VB

TUBE O.D.	A	B	C	316L PART NUMBER
1/2"	2.00	1.50	0.13	W614VB-.50
3/4"	2.00	1.50	0.13	W614VB-.75
1"	1.62	2.00	0.13	W614VB-1
1-1/2"	1.75	2.87	0.13	W614VB-15
2"	1.50	3.62	0.13	W614VB-2
2-1/2"	2.00	4.12	0.13	W614VB-25
3"	2.25	5.00	0.17	W614VB-3
4"	2.62	6.19	0.17	W614VB-4
6"	3.00	8.50	0.22	W614VB-6
8"	3.00	10.62	0.23	W614VB-8
10"	3.50	12.75	0.28	W614VB-10
12"	3.00	15.00	0.28	W614VB-12

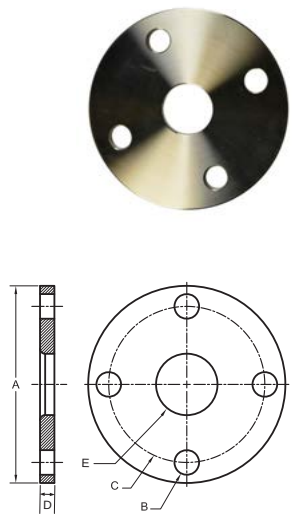
- Compatible with 38SL Tube Flanges
- Machine Finished to 32R_a

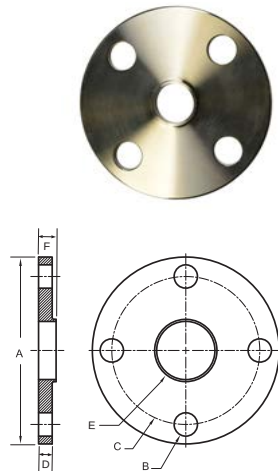


SLIP-ON TUBE FLANGES - MACHINE FINISH 38SL

TUBE O.D.	A	BOLT HOLE (B)	BOLT CIRCLE (C)	D	ID BORE (E)	# BOLT HOLES	304 PART NUMBER	316L PART NUMBER
1/2"	3.50	0.62	2.75	0.50	0.56	4	--	W638SL-.50
3/4"	3.87	0.62	2.75	0.50	0.81	4	--	W638SL-.75
1"	4.25	0.62	3.12	0.50	1.06	4	W438SL-1	W638SL-1
1-1/2"	5.00	0.62	3.87	0.50	1.56	4	W438SL-15	W638SL-15
2"	6.00	0.75	4.75	0.50	2.06	4	W438SL-2	W638SL-2
2-1/2"	7.00	0.75	5.50	0.50	2.56	4	W438SL-25	W638SL-25
3"	7.50	0.75	6.00	0.50	3.06	4	W438SL-3	W638SL-3
4"	9.00	0.75	7.50	0.50	4.06	8	W438SL-4	W638SL-4
5"	10.00	0.87	8.50	0.50	5.06	8	W438SL-5	W638SL-5
6"	11.00	0.87	9.50	0.50	6.06	8	W438SL-6	W638SL-6
8"	13.50	0.87	11.75	0.50	8.06	8	W438SL-8	W638SL-8
10"	16.00	0.98	14.27	0.50	10.06	12	W438SL-10	W638SL-10
12"	19.00	0.98	17.00	0.50	12.06	12	W438SL-12	W638SL-12

- 150# Bolt Pattern
- ASTM A182 forged

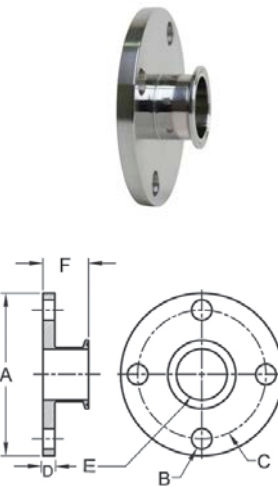




WELD NECK FLANGES - MACHINE FINISH 38W

TUBE O.D.	A	BOLT HOLE (B)	BOLT CIRCLE (C)	D	F	ID BORE (E)	# BOLT HOLES	316L PART NUMBER
1"	4.25	0.62	3.12	0.38	0.50	0.87	4	W638W-1
1-1/2"	5.00	0.62	3.87	0.38	0.50	1.37	4	W638W-15
2"	6.00	0.75	4.75	0.50	0.63	1.87	4	W638W-2
2-1/2"	7.00	0.75	5.50	0.50	0.63	2.37	4	W638W-25
3"	7.50	0.75	6.00	0.50	0.63	2.87	4	W638W-3
4"	9.00	0.75	7.50	0.50	0.63	3.83	8	W638W-4
6"	11.00	0.87	9.50	0.50	0.63	5.78	8	W638W-6

- 150# Bolt Pattern
- ASTM A182 forged



FLANGE BY CLAMP ADAPTERS - MACHINE FINISH 38MP

TUBE O.D.	A	BOLT HOLE (B)	BOLT CIRCLE (C)	D	F	ID BORE (E)	# BOLT HOLES	316L PART NUMBER
1"	4.25	0.62	3.12	0.38	1.62	0.87	4	W638MP-1
1-1/2"	5.00	0.62	3.87	0.38	1.62	1.37	4	W638MP-15
2"	6.00	0.75	4.75	0.50	1.75	1.87	4	W638MP-2
2-1/2"	7.00	0.75	5.50	0.50	1.75	2.37	4	W638MP-25
3"	7.50	0.75	6.00	0.50	1.75	2.87	4	W638MP-3
4"	9.00	0.75	7.50	0.50	1.75	3.83	8	W638MP-4
6"	11.00	0.87	9.50	0.50	2.19	5.78	8	W638MP-6

- 150# Bolt Pattern

CUSTOM CAPABILITIES

Wayland now offers custom fabricated parts which provides our customers with a single source for custom fittings, made to length spools, manifolds, special configurations, custom machined parts, jacketed fittings and sweep elbows.

FEATURES:

- Manual & Orbital Welding ASME B31.3 / AWS D18.1
- Mechanical Polishing
- CNC Machining
- Tee Pulling



ACCESSORIES

Wayland offers the following accessories to complement our line of sanitary fittings, valves & tubing.

FEATURES:

- In-Line Sight Glasses
- Sight Glass End Caps
- Pressure Gauges
- Spray Balls
- Plastic End Caps



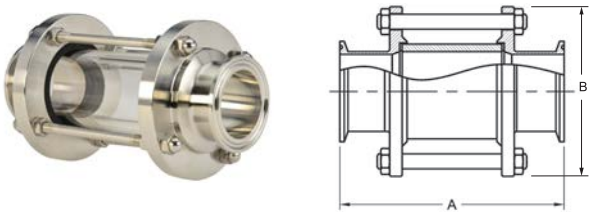
ACCESSORIES

SIGHT GLASSES

CLAMP END SIGHT GLASS 54BMP

TUBE O.D.	A	B	Working Pressure (PSI)	316L PART NUMBER			
				BOROSILICATE GLASS		POLYCARBONATE	
				EPDM	FKM	EPDM	FKM
1"	6.02	3.11	180	W654BMP-E-1	W654BMP-V-1	W654BMP-E-1-LX	W654BMP-V-1-LX
1-1/2"	5.94	3.35	180	W654BMP-E-15	W654BMP-V-15	W654BMP-E-15-LX	W654BMP-V-15-LX
2"	6.10	3.94	150	W654BMP-E-2	W654BMP-V-2	W654BMP-E-2-LX	W654BMP-V-2-LX
2-1/2"	6.02	4.53	135	W654BMP-E-25	W654BMP-V-25	W654BMP-E-25-LX	W654BMP-V-25-LX
3"	6.14	5.00	120	W654BMP-E-3	W654BMP-V-3	W654BMP-E-3-LX	W654BMP-V-3-LX
4"	6.50	6.14	105	W654BMP-E-4	W654BMP-V-4	W654BMP-E-4-LX	W654BMP-V-4-LX
6"	8.07	8.46	75	W654BMP-E-6	W654BMP-V-6	W654BMP-E-6-LX	W654BMP-V-6-LX

- Maximum operating temperature is 200°F
- Glass Thickness: 1"-3" is 5mm, 4"-6" is 10mm
- Working PSI/Temp. assumes absence of thermal shock



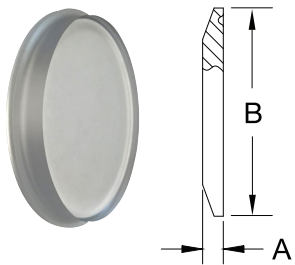
SIGHT GLASS COMPONENT REPLACEMENTS

TUBE O.D.	SEAL KITS		REPLACEMENT GLASS	
	EPDM SEAL KIT	FKM SEAL KIT	BOROSILICATE GLASS	POLYCARBONATE
1" & 1-1/2"	W54BMP-ST-E-1	W54BMP-ST-V-1	W54BMP-PX-1	W54BMP-LX-1
2"	W54BMP-ST-E-2	W54BMP-ST-V-2	W54BMP-PX-2	W54BMP-LX-2
2-1/2"	W54BMP-ST-E-25	W54BMP-ST-V-25	W54BMP-PX-25	W54BMP-LX-25
3"	W54BMP-ST-E-3	W54BMP-ST-V-3	W54BMP-PX-3	W54BMP-LX-3
4"	W54BMP-ST-E-4	W54BMP-ST-V-4	W54BMP-PX-4	W54BMP-LX-4
6"	W54BMP-ST-E-6	W54BMP-ST-V-6	W54BMP-PX-6	W54BMP-LX-6

SIGHT GLASS END CAPS 16AMP-SGL

TUBE O.D.	A	B	PART NUMBER (ACRYLIC)	PART NUMBER (POLYCARBONATE)
1" & 1-1/2"	0.50	1.98	WA16AMP-SGL-1/15	WL16AMP-SGL-1/15
2"	0.50	2.52	WA16AMP-SGL-2	WL16AMP-SGL-2
2-1/2"	0.50	3.05	WA16AMP-SGL-25	WL16AMP-SGL-25
3"	0.50	3.58	WA16AMP-SGL-3	WL16AMP-SGL-3
4"	0.50	4.68	WA16AMP-SGL-4	WL16AMP-SGL-4
6"	0.50	6.57	WA16AMP-SGL-6	WL16AMP-SGL-6

- Offered in Polycarbonate or Acrylic Plastic



3-A SANITARY PRESSURE GAUGES



Available with a 2-1/2" or 4" aluminum dial, our All-Purpose Sanitary Gauges are built to withstand all sanitary applications where 3-A approval is required including food, beverage and dairy installations.

- Food grade glycerin filling standard
- High polish finish
- Industrial grade polycarbonate lens
- Clean-In-Place and Steam-In-Place design
- 0.75", 1.5" and 2" Tri-Clamp connection bottom or back
- ASME 840.100 compliant

PLASTIC CAPS

PLASTIC CAPS WCW, WCC

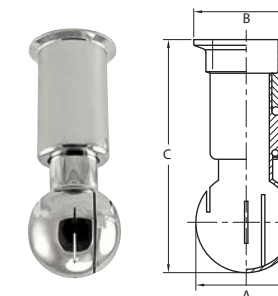
TUBE O.D.	WELD END PART NUMBER	CLAMP END PART NUMBER
1/2"	WCW-.50	WCC-.50/.75
3/4"	WCW-.75	
1"	WCW-1	WCC-1/15
1-1/2"	WCW-15	
2"	WCW-2	WCC-2
2-1/2"	WCW-25	WCC-25
3"	WCW-3	WCC-3
4"	WCW-4	WCC-4
6"	WCW-6	WCC-6
8"	WCW-8	WCC-8
10"	WCW-10	WCC-10
12"	WCW-12	WCC-12

- Use these covers to protect all clamp and butt-weld fittings and valves.
- Low-density polyethylene (LDPE)

SPRAY BALLS

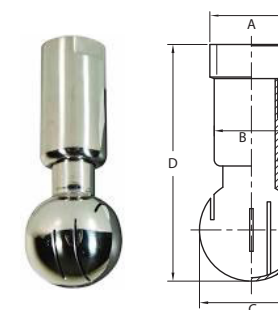
TRI-CLAMP 360° ROTATING SPRAY BALL RSB-TC

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	4	53	W6RSB-TC-15



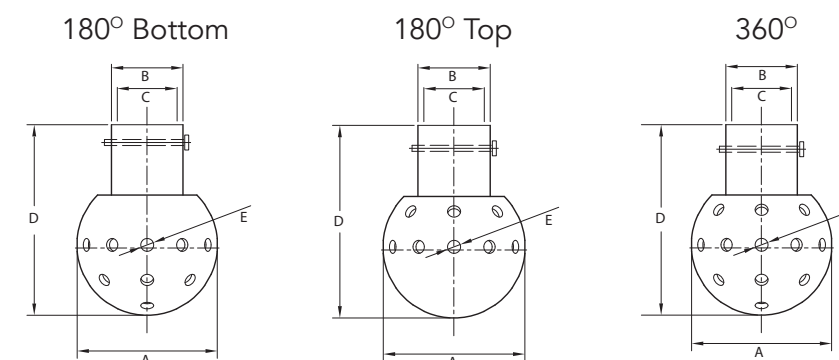
NPT 360° ROTATING SPRAY BALL RSB-NPT

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	5	29	W6RSB-NPT-.75
1-1/2"	2.13	1.89	2.48	6.10	29	6	44	W6RSB-NPT-15



STATIONARY SPRAY BALLS SSB

TUBE O.D.	A	B	C	D	E	180° BOTTOM	180° TOP	360°
1"	2.08	1.18	1.03	2.91	0.07	W6SSB-180B-1	W6SSB-180T-1	W6SSB-360-1
1-1/2"	2.48	1.67	1.51	3.18	0.08	W6SSB-180B-15	W6SSB-180T-15	W6SSB-360-15



TUBE O.D.	PRESSURE (PSI)	CLEANING RADIUS (ft)	FLOW RATE 360 / 180 (gpm)
1"	36	3 - 4	75 / 44
1-1/2"	36	4 - 6	101 / 75



AUSTENITIC STAINLESS STEEL CHEMISTRY

ELEMENT	Carbon (C) max	Manganese (Mn) max	Phosphorus (P) max	Sulfur (S) max	Silicone (Si) max	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
304 * (wt %)	0.080	2.00	0.045	0.03	0.75	18.0-20.0	8.0-10.5	--
304L * (wt %)	0.035	2.00	0.045	0.03	0.75	18.0-20.0	8.0-12.0	--
316L * (wt %)	0.035	2.00	0.045	0.03	0.75	16.0-18.0	10.0-14.0	2.0-3.0

* AISI specifications for wrought material.

FINISH DESIGNATIONS FOR TUBING & FITTINGS

Inside Diameter (ID)		Outside Diameter (OD)		Surface Finish Code		
R _a (Max)	Surface Treatment	R _a (Max)	Surface Treatment	ASME BPE	Industry Surface Finish Designation	Wayland Designation
--	Mill	--	Mill	SF0	PU / #1	-1
--	Mill	32	Mechanical Polish		#5	
20	Mechanical Polish	--	Mill	SF1	PC	
20	Mechanical Polish	32	Mechanical Polish	SF1	PL	-PL
25	Mechanical Polish	32	Mechanical Polish	SF2		
30	Mechanical Polish	32	Mechanical Polish	SF3		
32	Mechanical Polish	--	Mill		#3	
32	Mechanical Polish	32	Mechanical Polish		#7	-7
15	Electropolish	--	Mill	SF4	PD	
15	Electropolish	32	Mechanical Polish	SF4	PM	-PM
10	Electropolish	32	Mechanical Polish		PR	
20	Electropolish	32	Mechanical Polish	SF5		
25	Electropolish	32	Mechanical Polish	SF6		

SURFACE FINISH CONVERSION

Grit	R _a (microinches)	R _a (mircometers)	RMS
150	42	1.1	46
180	32	0.8	35
180 + EP	25	0.6	28
240	20	0.5	22
240 + EP	15	0.4	17
320	10	0.3	11
320 + EP	5-10	0.1-0.3	6-11
400	9	0.2	10
Mirror	4-8	0.1-0.2	4-9

WAYLAND CROSS REFERENCE CHART

TRI-CLAMP FITTINGS

Product Description	Wayland	Alfa Laval	Dixon	VNE
Single Pin Heavy Duty Clamp	W13MHM	13MHM	13MHM	13MHM
High Pressure Bolted Clamp	W13MHP	13MHP	13MHP	13MHP
Short Weld Ferrule	W14WMP	14WMPS	14WMP	EG2CS
Long Weld Ferrule	W14AM7	L14AM7	L14AM7	EG14AM7
Roll-On Ferrule	W14RMP	14RMP	14RMP	EG14R
Tank Ferrule (Light Duty)	W14WLMP	14WLMP	14WLMP	EG14WL
Tank Ferrule (Heavy Duty)	W14MPW	14MPW	14MPW	EG14W
Solid End Cap	W16AMP	16AMP	16AMP	EG16A
Thermometer Cap	W23BMP	23BMP	B23BMP	EG23B
Tygon™ Hose Adapter	W14MPHT	14MPHT	14MPHT	EG14HT
Rubber Hose Adapter	W14MPHR	14MPHR	14MPHR	EG14RT
Brewery Hose Barb Adapter	W14MPHRL	14MPHRL	14MPHRL	EG14MPHRL
Male NPT x Tri-Clamp Adapter	W21MP	21MP	21MP	EG21
Female NPT x Tri Clamp Adapter	W22MP	22MP	22MP	EG22
90° Clamp Elbow	W2CMP	2CMP	B2CMP	EG2C
90° Reducing Clamp Elbow	W2CMP-31MP	2CMP-31MP	B2CM31MP	EG2C-31
45° Clamp Elbow	W2KMP	2KMP	B2KMP	EG2K
Clamp Tee	W7MP	7MP	B7MP	EG7
Clamp Reducing Tee	W7RMP	7RMP	B7RMP	EG7R
Clamp Conc Reducer	W31-14MP	31-14MP	B3114MP	EG31CC
Clamp Ecc Reducer	W32-14MP	32-14MP	B3214MP	EG32CC
45° Clamp Lateral	W28AMP	28AMP	B28AMP	EG28A
Clamp True Wye	W28BMP	28BMP	B28BMP	EG28B
Clamp Cross	W9MP	9MP	B9MP	EG9
Clamp 180° Return Bend	W2UMP		B2WUMP	EG2WU
Clamp Gasket EPDM	40MPE	40MP-E	40MP-E	EG40E
Clamp Gasket PTFE	40MPG	40MP-G	40MP-G	EG40T
Clamp Gasket FKM (Viton)	40MPSFY	40MP-SFY	40MP-SFY	EG40V
Clamp Gasket Black Buna	40MPU	40MP-U	40MP-U	EG40
Clamp Gasket White Silicone	40MPX	40MP-X	40MP-X	EG40S

BEVEL SEAT FITTINGS

Product Description	Wayland	Alfa Laval	Dixon	VNE
Union Hex Nut	W13H	13H	13H	13H
Short Plain Bevel Seat Weld Ferrule	W14PRF	14PRF	14PRF	14PR
Long Plain Bevel Seat Ferrule	W14A	L14A7	14A	14A
Short Thread Bevel Seat Ferrule	W15TRF	15TRF	15TRF	15TR
Long Thread Bevel Seat Ferrule	W15A	L15A7	15A	15A
Plain Bevel Seat Solid End Cap	W16A	16A	16A	16A
Bevel Seat Gasket PTFE	40BS-T	40BS-T	40BS-T	
Bevel Seat Buna Gasket	40BS-B	40BS-B	40BS-B	

WAYLAND CROSS REFERENCE CHART

BUTT WELD FITTINGS

Product Description	Wayland	Alfa Laval	Dixon	VNE
Polished 90° Weld Elbow w/ Tangents	WL2S	L2S	B2S	E2S
Polished 90° Weld Elbow	W2WCL	2WCL-7	B2WCL	2WCL
Polished 45° Weld Elbow w/ Tangents	WL2KS	L2KS	B2KS	E2KS
Polished 45° Weld Elbow	W2WK	2WK-7	B2WK	E2WK
Polished 90° Clamp x Weld Elbow	WL2CM	L2CM	B2CM	E2C
Polished 45°Clamp x Weld Elbow	WL2KM	L2KMW	B2KM	E2KC
Polished Short Weld Tee	W7WWW	L7WWW	B7WWW	E7WWW
Polished Long Weld Tee	W7W	L7W	B7W	E7W
Polished Reducing Short Weld Tee	W7RWWW	L7RWWW	B7RWWW	E7RWWW
Polished Conc Weld Reducer	W31W	L31	B31W	E31WW
Polished Ecc Weld Reducer	W32W	L32	B32W	E32WW
Polished Weld Lateral	W28WA	L28WA	B28WA	E28WA
Polished Weld True Wye	W28WB	L28WB	B28WB	E28WB
Polished Weld Cross	W9WWWV	B9WWWV	B9WWWV	E9WWWV
Polished Weld 180° Return Bend	W2WU	L2WU	B2WUL	E2WU
Male NPT x Weld End Adapter	W19WB	19WB	B19WB	19WB
Female NPT x Weld End Adapter	W22WB	22WB	B22WB	22WB
Dome Cap	W16W	16W	B16W	V16W

I-LINE FITTINGS

Product Description	Wayland	Alfa Laval	Dixon	VNE
Wing Nut I-Line Clamp	W13IS	HDI-13UD	13ILH	E13IS
Bolted I-Line Clamp	W13I	HDI-13I	13ILB	E13IU
Male I-Line Short Weld Ferrule	W14WI	HDI-14WI	14WI	E14WI
Male I-Line Long Weld Ferrule	W14WLI	HDI-14WLI	14WLI	E14WLI
Female I-Line Short Weld Ferrule	W15WI	HDI-15WI	15WI	E15WI
Female I-Line Long Weld Ferrule	W15WLI	HDI-15WLI	15WLI	E15WLI
Male I-Line Solid End Cap	W16AI-14I	HDI-16AI-14I	16AI-14I	E16AI-14I
Female I-Line Solid End Cap	W16AI-15I	HDI-16AI-15I	16AI-15I	E16AI-15I
Male I-Line x Clamp Adapters	W17-14I-14MP	HDI-17-14I-14MP	17-14I-14MP	E17-14I-14MP
Female I-Line x Clamp Adapters	W17-15I-14MP	HDI-17-15I-14MP	17-15I-14MP	E17-15I-14MP
Female I-Line x Male I-Line 45° Elbow	W2PI	HDI-2P	B2PI	E2PI
I-Line Gasket EPDM	40IE	40IE	40IE	E40IE
I-Line Gasket PTFE	40IT	40IT	40IT	E40IT
I-Line Gasket Buna	40IH	40IH	40IH	E40IH
I-Line Gasket Viton	40IV	40IV	40IV	E40IV
I-Line Gasket Silicone	40IX	40IX	40IX	E40IS

Q-LINE

Product Description	Wayland	Alfa Laval	Dixon	VNE
Q-Line Weld Ferrule	W14WQ		14WQ	E14WQ-6L
Q-Line Solid End Caps	W16AQ		16AQ	E16AQ-14Q

WAYLAND CROSS REFERENCE CHART

DIN

Product Description	Wayland	Alfa Laval	Dixon	VNE
DIN Round Nuts	W13R-DIN		13R-DIN	
DIN Blank Caps	W16AMP-DIN		16AMP-DIN	
DIN Welding Males	W15A-DIN		15A-DIN	
DIN Welding Liners	W14A-DIN		14A-DIN	

SMS

Product Description	Wayland	Alfa Laval	Dixon	VNE
SMS Round Nuts	W13R-SMS		13R-SMS	
SMS Blank Caps	W16AMP-SMS		16AMP-SMS	
SMS Welding Males	W15A-SMS		15A-SMS	
SMS Welding Liners	W14A-SMS		14A-SMS	

JOHN PERRY

Product Description	Wayland	Alfa Laval	Dixon	VNE
John Perry Short Plain Weld Ferrule	W14PRF-JP	14PRFJP	14PRFJP	14PRJP
John Perry Short Threaded Weld Ferrule	W15TRF-JP	15TRFJP	15TRFJP	15TRJP
John Perry Solid End Caps	W16AJP	16AJP	16AJP	16AJP

PIPE SIZE

Product Description	Wayland	Alfa Laval	Dixon	VNE
Pipe Size Single Pin Clamps	W13MHV	13MHHV	13MHHV	13MHHM-5
Pipe Size Heavy Duty Bolted Clamps	W13MHPV	13MPHV	13MHPV	
Schedule 5 Short Weld Ferrules	W14WMV		14WMV	EG2CS-5-6L
Schedule 5 Long Weld Ferrules	W14AM7V		14WMX	EG14AM7-5-6L
Sch 10 Short Weld Ferrules	W14WMX		L14AM7V	EG2CS-10-6L
Sch 10 Long Weld Ferrules	W14AM7X		L14AM7X	EG14AM7-10-6L
Schedule 40 Short Weld Ferrules	W14WMZ		L14WMZ	
Schedule 40 Long Weld Ferrules	W14AM7Z		L14AM7Z	
Pipe Size Solid End Caps	W16AMV		16AMV	EG16A-5-6L
Clamp X Sch 5 Weld Adapters	W19MPV		B19MPV	
Clamp X Sch 10 Weld Adapters	W19MPX		B19MPX	
Clamp X Sch 40 Weld Adapters	W19MPXLI		B19MPXLI	
Tube X Sch 10 Weld Adatpers	W19WX		B19WX	
Tube X Sch 40 Weld Adatpers	W19WXL		B19WXL	

MISCELLANEOUS

Product Description	Wayland	Alfa Laval	Dixon	VNE
Slip On Tube Flange	W38SL	38SL	B38SL	E38SL
Type A Stub End	W14VB	14VB	14VB	V14WA
Weld Neck Flange	W38W	38W	B38W	V38W
Hex Hanger w/ Nitrile Grommets	RGHT		B24RG	E24
Hex Hanger w/ Abs Sleeve	PVCT		B24PS	E24PVC

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	24.6063
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.

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.

MATERIAL					
FLUID	Buna	EPDM	FKM	PTFE	Silicone
Ethylene	A	B	A	A	E
Ethylene Chloride	D	C	B	E	D
Ethylene Diamine	A	A	D	E	A
Ethylene Dichloride	D	C	A	A	D
Ethylene Glycol	A	A	A	A	A
Fluoroboric Acid	A	A	E	E	E
Freon 11	B	D	A	A	D
Freon 12	A	B	B	A	D
Freon 22	D	A	D	A	D
Fumaric Acid	A	B	A	E	B
Gallic Acid	B	B	A	A	E
Gasoline	B	D	A	A	D
Glucose	A	A	A	A	A
Glycerin	A	A	A	A	A
Hexane	A	D	A	A	D
Hexyl Alcohol	A	C	A	A	B
Hydrazine	B	A	D	A	C
Hydrobromic Acid	D	A	A	E	D
Hydrocyanic Acid	B	A	A	A	C
Hydrofluoric Acid (conc.) cold	D	C	A	A	D
Hydrofluosilicic Acid	B	B	A	E	D
Hydrogen Gas	A	A	A	A	C
Hydrogen Peroxide (90%)	D	B	B	E	B
Hydrogen Sulfide (wet) cold	D	A	D	E	C
Hydroquinone	C	B	B	A	E
Iodoform	E	D	E	E	E
Isobutyl Alcohol	B	A	A	A	A
Isooctane	A	D	A	E	D
Isopropyl Acetate	D	B	D	A	D
Isopropyl Alcohol	B	A	A	A	A
Isopropyl Chloride	D	D	A	A	D
Isopropyl Ether	B	D	D	A	D
Kerosene	A	D	A	A	D
Lacquers	D	D	D	A	D
Lactic Acid (cold)	A	A	A	A	A
Lead Acetate (aq)	B	A	D	E	D
Lead Nitrite (aq)	A	A	E	E	B
Lime Bleach	A	A	A	E	B
Linoleic Acid	B	D	B	A	B
Maleic Acid	D	B	A	A	E
Malic Acid	A	B	A	E	B
Methane	A	D	B	A	D

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

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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).

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