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1916 – 2016

DIXON SANITARY

DS2016

DIXON SANITARY

The Right Connection®

2016

DIXONVALVE.COM

800.789.1718

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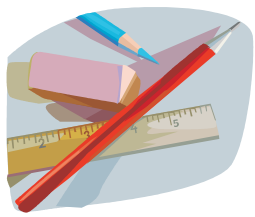

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Dixon Sanitary Quality: maintaining the 3-A standards

3A Certs

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3-A Sanitary Standards, Inc. (3-A SSI) is a non-profit association representing equipment manufacturers, processors, regulatory sanitarians and other public health professionals. Through many decades of cooperation, these groups have established a comprehensive inventory of 3-A Sanitary Standards and 3-A Accepted Practices now known around the world for dairy and food processing equipment and systems.

Dixon Sanitary has earned its 3-A symbols through the 3-A Third Party Verification (TPV) program, requiring a professional assessment rather than voluntary compliance, making certain each product conforms in all respects to the published standards. The 3-A Standards are accepted by USDA and FDA.

Dixon Sanitary holds the following 3-A certification:

- Dixon Sanitary Fittings including BPE meet 3-A Sanitary Standards for Sanitary Fittings, Number 63-03 (Authorization number 621).
- Dixon Sanitary Check Valves meet 3-A Sanitary Standards for Vacuum Breakers and Check Valves, Number 58-00 (Authorization number 1447).
- Dixon Sanitary Pumps meet 3-A Sanitary Standards for Centrifugal Pumps, Number 02-10 (Authorization number 1537).
- Dixon Sanitary Filter/Strainers meet 3-A Sanitary Standards for Filters Using Single Service Media, Number 10-04 (Authorization number 1446).
- Dixon Sanitary Seat Valves meet 3-A Sanitary Standards for Compression - Type Valves, Number 53-06 (Authorization number 1655)

We carry 3-A material from other suppliers who have also earned their 3-A authorizations through the TPV Program:

- United (Authorization 331) Metal Tubing meets 3-A Sanitary Standards for Metal Tubing, Number 33-02.
- CSE (Authorization 850) Gauges meet 3-A Sanitary Standards for Sensors and Sensor Fittings and Connections, Number 74-03.

Visit the Dixon website, dixonvalve.com, to download certificates in PDF format or call Dixon Sanitary at 800.789.1718.

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Stainless Steel Air & Vacuum Relief Tank Vent Valve

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Compact Sight Glasses

Compact Sight Glasses
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Side-Outlet Reverse Entry Strainer

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Stainless Steel Industrial Wafer Ball Valve

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Dixon Sanitary Engineered Products

Actuation

pneumatic

control tops

electric

canister

solenoids

Valves

seat

long stroke

aseptic

mixproof

diaphragm

biocheck

control

Positive Displacement and Centrifugal Pumps

positive displacement

pump carts

centrifugal

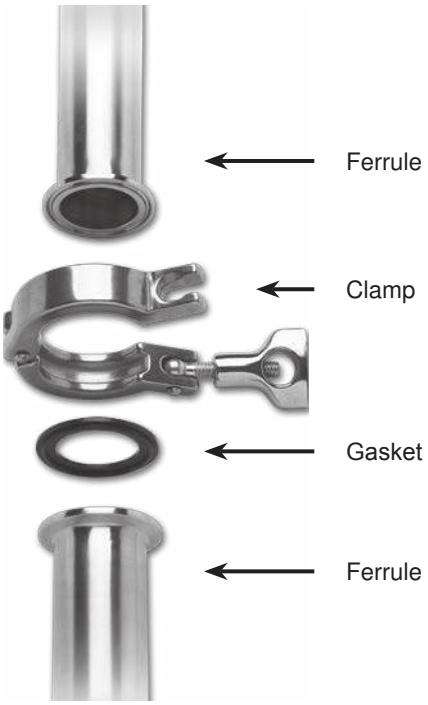
Go to dixonvalve.com to download the latest Engineered Products Catalog

Dixon Sanitary Custom Fabrication

Machined, Welded and Polished Components

Dixon Sanitary Clamp Fittings

A Complete Clamp Connection



Product Specifications

Size range:
- ½" - 12" OD tube

Materials:
- G = 304 stainless steel
- R = 316L stainless steel
- other alloys are available

Finish:
- 3A sanitary finish ID and OD
- other finishes are available

Dimensions of stainless steel tube given in inches

Tube OD	Nominal Wall Thickness (inches)	Gage Number
½"	.065	16
¾"	.065	16
1"	.065	16
1½"	.065	16
2"	.065	16
2½"	.065	16
3"	.065	16
4"	.083	14
5"	.109	12
6"	.109	12
8"	.120	10
10"	.109	12
12"	.120	10

This section contains tube OD materials. Please note in sizes ½" through 12" the pipe is known by its nominal inside diameter, which differs from its actual inside diameter. To distinguish pipe sizes from actual measured diameters as used for tube, the terms *iron pipe size* (IPS) or *nominal pipe size* (NPS) are usually used. For all pipe sizes, the outside diameter (OD) remains constant; the variations in wall thickness affect the inside diameter (ID).

Pipe size and Tube OD size materials are not interchangeable

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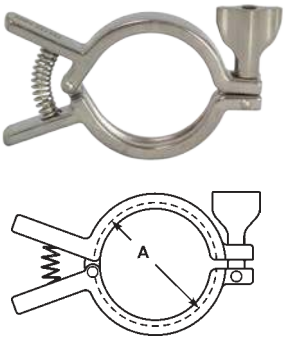
Clamps

Service pressure ratings are based on the following parameters: matching elastomer gaskets and weld ferrules properly aligned and assembled with the clamps tightened to the required torques. Tests are done hydrostatically with no water hammer or shock loads. Please note the pressure ratings of the described unions may be above the recommended pipe line operating pressures.

Single Pin Squeeze Clamps - *13MHHM-Q*

Tube OD	Service Pressure Rating @ 70°F [1]	Service Pressure Rating @ 250°F [1]	A	Part Number
½" - ¾"	1500	1200	1.062	***13MHHM-Q75***
1" - 1½"	500	300	2.122	***13MHHM-Q100150***
2"	450	250	2.654	***13MHHM-Q200***
2½"	400	200	3.185	***13MHHM-Q250***
3"	350	175	3.717	***13MHHM-Q300***
4"	300	150	4.820	***13MHHM-Q400***

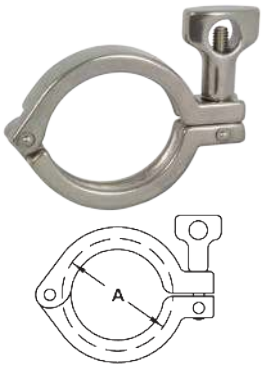
[1] wing nut tightened to 25 in. lb. of torque



Single Pin Heavy Duty Clamps with Cross Hole Wing Nut - *13MHHM*

Tube OD	Service Pressure Rating @ 70°F [1]	Service Pressure Rating @ 250°F [1]	A	Part Number
½" - ¾"	1500	1200	1.062	***13MHHM50-75***
1" - 1½"	500	300	2.122	***13MHHM100-150***
2"	450	250	2.654	***13MHHM200***
2½"	400	200	3.185	***13MHHM250***
3"	350	175	3.717	***13MHHM300***
4"	300	150	4.820	***13MHHM400***
5"	225	100	5.820	***13MHHM500***
6"	150	75	6.695	***13MHHM600***
8"	100	50	8.695	***13MHHM800***

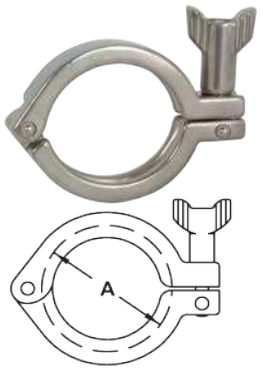
[1] wing nut tightened to 25 in. lb. of torque



Single Pin Heavy Duty Clamps with Serrated Wing Nut - *13MHHM***SN*

Tube OD	Service Pressure Rating @ 70°F [1]	Service Pressure Rating @ 250°F [1]	A	Part Number
½" - ¾"	1500	1200	1.062	***13MHHM50-75SN***
1" - 1½"	500	300	2.122	***13MHHM100-150SN***
2"	450	250	2.654	***13MHHM200SN***
2½"	400	200	3.185	***13MHHM250SN***
3"	350	175	3.717	***13MHHM300SN***
4"	300	150	4.820	***13MHHM400SN***
5"	225	100	5.820	***13MHHM500SN***
6"	150	75	6.695	***13MHHM600SN***
8"	100	50	8.695	***13MHHM800SN***

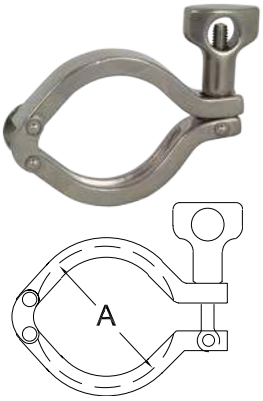
[1] wing nut tightened to 25 in. lb. of torque



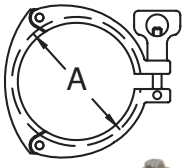
Double Pin Heavy Duty Clamps - *13MHHM-DP*

Tube OD	Service Pressure Rating @ 70°F [1]	Service Pressure Rating @ 250°F [1]	A	Part Number
1" - 1½"	500	300	2.122	***13MHHM-DP100150***
2"	450	250	2.654	***13MHHM-DP200***
2½"	400	200	3.185	***13MHHM-DP250***
3"	350	175	3.717	***13MHHM-DP300***
4"	300	150	4.820	***13MHHM-DP400***
10"	100	50	10.740	***13MHHM-DP1000***

[1] wing nut tightened to 25 in. lb. of torque



Clamps



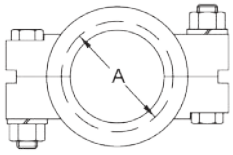
Three Segment Clamps - *13MHHM-3P*

Tube OD	Service Pressure Rating @ 70°F [1]	Service Pressure Rating @ 250°F [1]	A	Part Number
1" - 1½"	600	300	2.122	***13MHHM-3P100150***
2"	550	275	2.654	***13MHHM-3P200***
2½"	450	225	3.185	***13MHHM-3P250***
3"	350	175	3.717	***13MHHM-3P300***
4"	300	150	4.820	***13MHHM-3P400***
12"	75	50	12.740	***13MHHM-3P1200***

[1] wing nut tightened to 25 in. lb. of torque

½" - ¾"

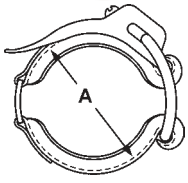
1" - 12"



Bolted Clamps - *13MHP*

Tube OD	Service Pressure Rating @ 70°F [1]	Service Pressure Rating @ 250°F [1]	A	Part Number
½" - ¾"	1500	1200	1.062	***13MHP75***
1" - 1½"	1500	1200	2.046	***13MHP100-150***
2"	1000	800	2.578	***13MHP200***
2½"	1000	800	3.110	***13MHP250***
3"	1000	800	3.640	***13MHP300***
4"	800	600	4.744	***13MHP400***
6"	300	200	6.632	***13MHP600***
8"	250	150	8.638	***13MHP800***
10"	200	125	10.740	***13MHP1000***
12"	150	100	12.740	***13MHP1200***

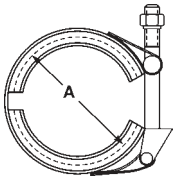
[1] all nuts are tightened to 20 ft. lb. of torque



Toggle Clamps - *13MHLA*

Tube OD	Service Pressure Rating @ 70°F [1]	Service Pressure Rating @ 250°F [1]	A	*304 Stainless Steel* Part Number
1" - 1½"	150	125	2.122	***13MHLA100-150***
2"	150	125	2.654	***13MHLA200***
2½"	150	125	3.185	***13MHLA250***
3"	150	125	3.717	***13MHLA300***
4"	100	75	4.820	***13MHLA400***

[1] screw tightened to maximum



T-bolt Clamps - *13MO*

Tube OD	Service Pressure Rating @ 70°F [1]	Service Pressure Rating @ 250°F [1]	A	*304 Stainless Steel* Part Number
1" - 1½"	500	250	2.080	***13MO100-150***
2"	350	200	2.610	***13MO200***
2½"	300	150	3.140	***13MO250***
3"	200	100	3.670	***13MO300***
4"	100	75	4.780	***13MO400***
6"	75	50	6.690	***13MO600***
8" [2]	50	40	8.690	***13MO800***
10" [2]	40	30	10.690	***13MO1000***
12" [2]	30	25	12.690	***13MO1200***

[1] 1" - 3" nuts tightened to 20 in. lb., 4" to 30 in. lb., 6" to 40 in. lb. and 8" - 12" 50 in. lb. of torque.
[2] 2 bolt configuration

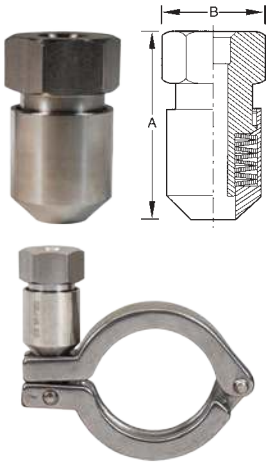
Clamps

Dairy Clamps - *13WGC*

Tube OD	Service Pressure Rating @ 70°F [1]	Service Pressure Rating @ 250°F [1]	A	*304 Stainless Steel* Part Number
1" - 1½"	100	75	2.080	***13WGC100-150***
2"	100	75	2.610	***13WGC200***
2½"	100	75	3.140	***13WGC250***
3"	100	75	3.670	***13WGC300***
4"	100	75	4.780	***13WGC400***

[1] finger tight

Spring Loaded Nut - *13SLN*



Features:

- Lines using PTFE gaskets that are subject to large temperature swings can benefit from this special product. As the PTFE is compressed through the cycling of the lines, the spring load will help keep the connection from leaking.
- If the lines suffer from vibration and bolted clamps are not an option, refitting single pin clamps with this nut will keep the connections from leaking for a longer time than the standard wing nuts.
- If you transport material in tanks via truck, the vibrations can loosen the standard single pin clamps. Spring loaded nuts can add a level of insurance to the shipment.
- *Note:* can be used on all wing nut style clamps
- torque to 50 in. lb.

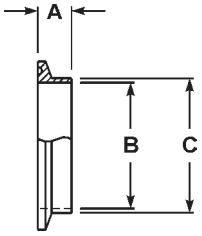
Thread	A	B	*304 Stainless Steel* Part Number
5/16 - 18	1.73	.875	***13SLN***

Accessories

Description	Part Number
Cross hole wing nut 5/16"-18	***13WNX***
Mini cross hole wing nut 5/16"-18 for ½" - ¾" clamps	***13WNXM***
Serrated wing nut 5/16"-18	***13WNS***
Hex wing nut 5/16"-18	***13WNH***
Bronze hex nut 3/8"-16 for bolted clamps	***13BN***
Brass 3/8-16 nuts used on ½" - ¾" and 10" & 12" bolted clamps	***13BNH***
Stainless steel hex nut for bolted clamps	***13SN***
3/8" 304 stainless steel lock washer	***13LW***
Bolt 3/8"-16 x 2¼" for ½ - 1½" bolted clamps	***13CB-2.25***
Bolt 3/8"-16 x 2¾" for 2" and 2½" bolted clamps	***13CB-2.75***
Bolt 3/8"-16 x 3¼" for 3" - 12" bolted clamps	***13CB-3.25***
Rivet pin for ½" - 5" single pin clamps 5/16" x 1"	***13RP***
Rivet pin for 6" and 8" single pin clamps 5/16" x 1-1/8"	***13RP6***
5/16"-18 x 2" threaded eye bolt for ½" - 5" clamps	***13IB***
5/16"-18 x 2½" threaded eye bolt for 6" - 12" clamps	***13IB6***

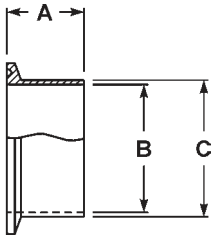
Clamp Ferrules

Short Weld Ferrules - *14WMP*



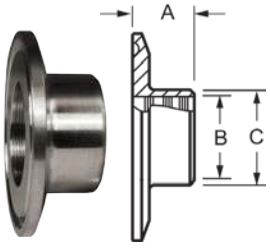
Tube OD	A	B	C	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	.500	.370	.500	***14WMP-G50***	***14WMP-R50***
¾"	.500	.620	.750	***14WMP-G75***	***14WMP-R75***
1"	.500	.870	1.000	***14WMP-G100***	***14WMP-R100***
1½"	.500	1.370	1.500	***14WMP-G150***	***14WMP-R150***
2"	.500	1.870	2.000	***14WMP-G200***	***14WMP-R200***
2½"	.500	2.370	2.500	***14WMP-G250***	***14WMP-R250***
3"	.500	2.870	3.000	***14WMP-G300***	***14WMP-R300***
4"	.625	3.834	4.000	***14WMP-G400***	***14WMP-R400***
5"	.750	4.782	5.000	***14WMP-G500***	***14WMP-R500***
6"	.875	5.782	6.000	***14WMP-G600***	***14WMP-R600***
8"	.875	7.760	8.000	***14WMP-G800***	***14WMP-R800***
10"	.875	9.782	10.000	***14WMP-G1000***	***14WMP-R1000***
12"	.875	11.760	12.000	***14WMP-G1200***	***14WMP-R1200***

Long Weld Ferrules - *L14AM7*



Tube OD	A	B	C	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	1.125	.370	.500	***L14AM7-G50***	***L14AM7-R50***
¾"	1.125	.620	.750	***L14AM7-G75***	***L14AM7-R75***
1"	1.125	.870	1.000	***L14AM7-G100***	***L14AM7-R100***
1½"	1.125	1.370	1.500	***L14AM7-G150***	***L14AM7-R150***
2"	1.125	1.870	2.000	***L14AM7-G200***	***L14AM7-R200***
2½"	1.125	2.370	2.500	***L14AM7-G250***	***L14AM7-R250***
3"	1.125	2.870	3.000	***L14AM7-G300***	***L14AM7-R300***
4"	1.125	3.834	4.000	***L14AM7-G400***	***L14AM7-R400***
5"	1.125	4.782	5.000	***L14AM7-G500***	***L14AM7-R500***
6"	1.500	5.782	6.000	***L14AM7-G600***	***L14AM7-R600***
8"	1.500	7.760	8.000	***L14AM7-G800***	***L14AM7-R800***
10"	1.750	9.782	10.000	***L14AM7-G1000***	***L14AM7-R1000***
12"	1.750	11.760	12.000	***L14AM7-G1200***	***L14AM7-R1200***

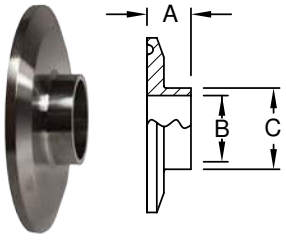
Reducing Roll-on Ferrules for Expanding - *B31RMP*



Clamp End	Tube OD	A	B	C	*304 Stainless Steel* Part Number
1½"	1"	.750	1.007	1.160	***B31RMP-G150100***
2"	1"	.750	1.007	1.160	***B31RMP-G200100***
2"	1½"	1.125	1.507	1.676	***B31RMP-G200150***

* Meets 3-A Standard Number 63-03 when used to modify or repair exisiting on-site farm milk handling systems.

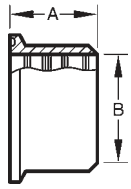
Reducing Ferrules - *B31WMP*



Tube OD	A	B	C	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
2" x 1"	.500	.870	1.000	***B31WMP-G200100***	***B31WMP-R200100***
2½" x 1½"	.500	1.370	1.500	***B31WMP-G250150***	***B31WMP-R250150***
2½" x 2"	.500	1.870	2.000	***B31WMP-G250200***	***B31WMP-R250200***
3" x 2"	.500	1.870	2.000	***B31WMP-G300200***	***B31WMP-R300200***
3" x 2½"	.500	2.370	2.500	***B31WMP-G300250***	***B31WMP-R300250***
4" x 3"	.625	2.870	3.000	***B31WMP-G400300***	***B31WMP-R400300***

Clamp Ferrules

Roll-On Ferrules for Expanding - *14RMP* 3*



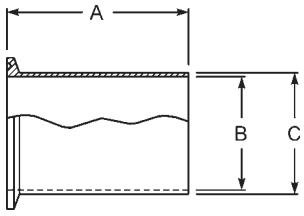
Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.750	1.005	***14RMP-G100***	***14RMP-R100***
1½"	1.125	1.505	***14RMP-G150***	***14RMP-R150***
2"	1.312	2.005	***14RMP-G200***	***14RMP-R200***
2½"	1.375	2.505	***14RMP-G250***	***14RMP-R250***
3"	1.437	3.005	***14RMP-G300***	***14RMP-R300***
4"	1.500	4.005	***14RMP-G400***	***14RMP-R400***
6"	2.000	6.005	***14RMP-G600***	*--*

* Meets 3-A Standard Number 63-03 when used to modify or repair exisiting on-site farm milk handling systems.

Automatic Weld Ferrules - *TL14AM7* 3

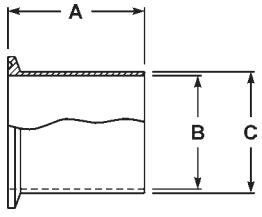
Specification:

- meets ASME BPE-2012 specifications



Tube OD	A	B	C	*316L Stainless Steel* Part Number
½"	1.750	.370	.500	***TL14AM7-050PL***
¾"	1.750	.620	.750	***TL14AM7-075PL***
1"	1.750	.870	1.000	***TL14AM7-100PL***
1½"	1.750	1.370	1.500	***TL14AM7-150PL***
2"	2.250	1.870	2.000	***TL14AM7-200PL***
2½"	2.250	2.370	2.500	***TL14AM7-250PL***
3"	2.250	2.870	3.000	***TL14AM7-300PL***
4"	2.250	3.834	4.000	***TL14AM7-400PL***
6"	3.000	5.782	6.000	***TL14AM7-600PL***

Tank Ferrules (light duty) - *14WLMP* 3

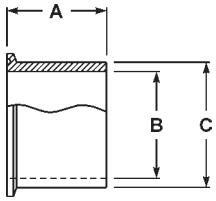


Tube OD	A	B	C	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	3.000	.870	1.000	***14WLMP-G100***	***14WLMP-R100***
1½"	3.000	1.370	1.500	***14WLMP-G150***	***14WLMP-R150***
2"	3.000	1.870	2.000	***14WLMP-G200***	***14WLMP-R200***
2½"	3.000	2.370	2.500	***14WLMP-G250***	***14WLMP-R250***
3"	4.000	2.870	3.000	***14WLMP-G300***	***14WLMP-R300***
4"	4.000	3.834	4.000	***14WLMP-G400***	***14WLMP-R400***
6"	6.000	5.782	6.000	***14WLMP-G600***	***14WLMP-R600***
8"	6.000	7.760	8.000	*--*	***14WLMP-R800***
10"	6.000	9.782	10.000	*--*	***14WLMP-R1000***
12"	6.000	11.760	12.000	*--*	***14WLMP-R1200***

Tank Ferrules (heavy duty) - *14MPW* 3

Specification:

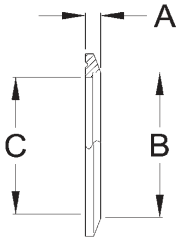
- certified ASME materials



Tube OD	A	B	C	*316L Stainless Steel* Part Number
½"	1.625	.321	.502	***14MPW-R50***
¾"	1.625	.574	.750	***14MPW-R75***
1"	1.625	.870	1.160	***14MPW-R100***
1½"	1.625	1.370	1.676	***14MPW-R150***
2"	1.750	1.870	2.192	***14MPW-R200***
2½"	1.750	2.370	2.708	***14MPW-R250***
3"	1.813	2.870	3.224	***14MPW-R300***
4"	2.125	3.834	4.256	***14MPW-R400***
6"	2.500	5.758	6.192	***14MPW-R600***
8"	2.500	7.758	8.192	***14MPW-R800***

Clamp Ferrules

Quick Weld Ferrules - *14QMP*

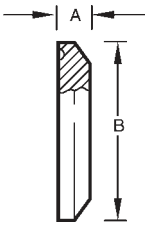


Features:
- 304 stainless construction
- just slip onto sanitary OD tube and weld
- no need to butt weld

Tube OD	A	B	C	*304 Stainless Steel* Part Number
1"	.290	1.005	.870	***14QMP-G100***
1½"	.199	1.505	1.370	***14QMP-G150***
2"	.205	2.005	1.870	***14QMP-G200***
2½"	.210	2.505	2.370	***14QMP-G250***
3"	.257	3.005	2.870	***14QMP-G300***
4"	.235	4.005	3.834	***14QMP-G400***
6"	.321	6.005	5.782	***14QMP-G600***

Clamp Caps

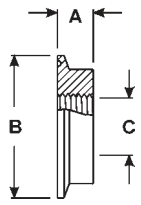
Solid End Caps - *16AMP*



Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½" - ¾"	.187	.992	***16AMP-G50-75***	***16AMP-R50-75***
1" - 1½"	.250	1.984	***16AMP-G100-150***	***16AMP-R100-150***
2"	.250	2.516	***16AMP-G200***	***16AMP-R200***
2½"	.250	3.047	***16AMP-G250***	***16AMP-R250***
3"	.250	3.579	***16AMP-G300***	***16AMP-R300***
4"	.312	4.682	***16AMP-G400***	***16AMP-R400***
5"	.312	5.687	***16AMP-G500***	***16AMP-R500***
6"	.437	6.570	***16AMP-G600***	***16AMP-R600***
8"	.437	8.570	***16AMP-G800***	***16AMP-R800***
10"	.437	10.570	***16AMP-G1000***	***16AMP-R1000***
12"	.437	12.570	***16AMP-G1200***	***16AMP-R1200***

- specify if you are using a piping system or a tubing system when ordering

Thermometer Caps - *B23BMP*



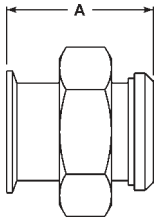
Tube OD	A	B	C [1]	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	.500	.993	¼ NPT	---	***B23BMP-R5014***
¾"	.500	.993	¼ NPT	---	***B23BMP-R7514***
1"	.625	1.984	½ NPT	***B23BMP-G100***	***B23BMP-R100***
1½"	.625	1.984	¾ NPT	***B23BMP-G150***	***B23BMP-R150***
2"	.625	2.516	¾ NPT	***B23BMP-G200***	***B23BMP-R200***
2½"	.625	3.047	¾ NPT	***B23BMP-G250***	***B23BMP-R250***
3"	.625	3.579	¾ NPT	***B23BMP-G300***	***B23BMP-R300***
4"	.625	4.682	¾ NPT	***B23BMP-G400***	***B23BMP-R400***

[1] other NPT tap sizes available, call Dixon Sanitary

Clamp Adapters

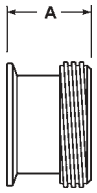
Clamp x Plain Bevel Seat Adapters with Hex Nut - *17MP-14* 3A

Tube OD	A	*304 Stainless Steel* Part Number
1"	3.000	***17MP-14-G100***
1½"	3.000	***17MP-14-G150***
2"	3.000	***17MP-14-G200***
2½"	3.500	***17MP-14-G250***
3"	3.750	***17MP-14-G300***
4"	4.000	***17MP-14-G400***



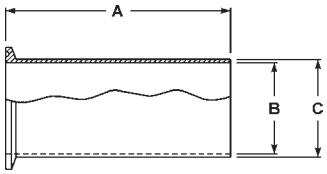
Clamp x Threaded Bevel Seat Adapters - *17MP-15* 3A

Tube OD	A	*304 Stainless Steel* Part Number
1"	1.843	***17MP-15-G100***
1½"	1.843	***17MP-15-G150***
2"	1.875	***17MP-15-G200***
2½"	2.000	***17MP-15-G250***
3"	2.031	***17MP-15-G300***
4"	2.156	***17MP-15-G400***



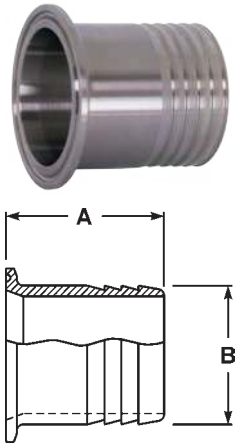
Tygon® Hose Adapters - *14MPHT*

Tube OD	A	B	C	*316L Stainless Steel* Part Number
½"	4.000	.370	.500	***14MPHT-R50***
¾"	4.000	.620	.750	***14MPHT-R75***
1"	4.500	.870	1.000	***14MPHT-R100***
1½"	4.500	1.370	1.500	***14MPHT-R150***
2"	4.500	1.870	2.000	***14MPHT-R200***
2½"	4.500	2.370	2.500	***14MPHT-R250***
3"	4.500	2.870	3.000	***14MPHT-R300***
4"	4.625	3.834	4.000	***14MPHT-R400***
6"	6.000	5.782	6.000	***14MPHT-R600***



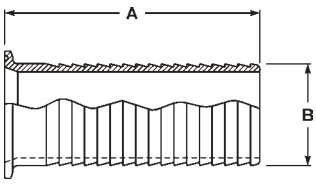
Clamp Adapters

Rubber Hose Adapters - *14MPHR*



Tube OD	Hose Size	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	⅛"	1.250	.125	---	***14MPHR-R50125***
½"	¼"	1.500	.250	---	***14MPHR-R5025***
½"	⅜"	1.500	.375	---	***14MPHR-R50375***
½"	½"	1.500	.500	---	***14MPHR-R50***
½"	¾"	1.500	.750	---	***14MPHR-R5075***
¾"	⅛"	1.500	.125	---	***14MPHR-R75125***
¾"	¼"	1.500	.250	---	***14MPHR-R7525***
¾"	⅜"	1.500	.375	---	***14MPHR-R75375***
¾"	½"	1.500	.500	---	***14MPHR-R7550***
¾"	¾"	1.500	.750	---	***14MPHR-R75***
1"	⅜"	1.500	.375	***14MPHR-G100375***	***14MPHR-R100375***
1"	½"	1.500	.500	***14MPHR-G10050***	***14MPHR-R10050***
1"	¾"	1.688	.750	***14MPHR-G10075***	***14MPHR-R10075***
1"	1"	1.688	1.000	***14MPHR-G100***	***14MPHR-R100***
1½"	⅛"	1.500	.125	***14MPHR-G150125***	***14MPHR-R150125***
1½"	¼"	1.500	.250	---	***14MPHR-R15025***
1½"	⅜"	1.500	.375	***14MPHR-G150375***	***14MPHR-R150375***
1½"	½"	1.500	.500	***14MPHR-G15050***	***14MPHR-R15050***
1½"	⅝"	1.500	.625	***14MPHR-G150625***	***14MPHR-R150625***
1½"	¾"	1.500	.750	***14MPHR-G15075***	***14MPHR-R15075***
1½"	1"	1.687	1.000	***14MPHR-G150100***	***14MPHR-R150100***
1½"	1¼"	1.689	1.250	---	***14MPHR-R150-125***
1½"	1½"	1.687	1.500	***14MPHR-G150***	***14MPHR-R150***
2"	1½"	2.312	1.500	***14MPHR-G200150***	***14MPHR-R200150***
2"	2"	2.312	2.000	***14MPHR-G200***	***14MPHR-R200***
2½"	2½"	2.344	2.500	***14MPHR-G250***	***14MPHR-R250***
3"	3"	3.094	3.000	***14MPHR-G300***	***14MPHR-R300***
4"	4"	3.406	4.000	***14MPHR-G400***	***14MPHR-R400***
6"	6"	3.406	6.000	***14MPHR-G600***	***14MPHR-R600***
8"	8"	3.406	8.000	***14MPHR-G800***	***14MPHR-R800***

Brewery Hose Barb Adapters - *14MPHRL*



Feature:
- suitable for use with band clamps

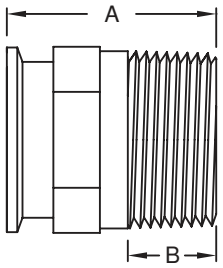
Size	A	B	*304 Stainless Steel* Part Number
1"	3.500	1.045	***14MPHRL100***
1½"	5.000	1.545	***14MPHRL150***
2"	5.000	2.045	***14MPHRL200***
2½"	5.500	2.545	***14MPHRL250***
3"	5.500	3.045	***14MPHRL300***
4"	5.500	4.045	***14MPHRL400***

Use of PVC tubing requires special techniques to prevent leakage. All assembly work must be done with heated tube. Cold durometer is 90 as opposed to rubber hose at 65 to 70 durometer. Banding buckles must be at 180° from one another.

Clamp Adapters

Male NPT Adapters - *21MP*

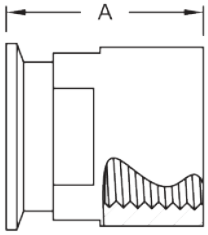
Tube OD	NPT Size	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	⅛"	2.000	.392	---	***21MP-R50125***
½"	¼"	2.000	.595	---	***21MP-R5025***
½"	⅜"	2.000	.600	---	***21MP-R50375***
½"	½"	1.625	.782	---	***21MP-R50***
½"	¾"	2.000	.794	---	***21MP-R5075***
¾"	¼"	2.000	.595	---	***21MP-R7525***
¾"	⅜"	2.000	.600	---	***21MP-R75375***
¾"	½"	2.000	.782	---	***21MP-R7550***
¾"	¾"	1.787	.794	---	***21MP-R75***
¾"	1"	2.250	.985	---	***21MP-R75100***
1"	⅛"	2.187	.392	***21MP-G100-125***	***21MP-R100-125***
1"	¼"	2.161	.595	***21MP-G10025***	***21MP-R10025***
1"	⅜"	2.187	.600	***21MP-G100375***	***21MP-R100375***
1"	½"	2.187	.782	***21MP-G10050***	***21MP-R10050***
1"	¾"	2.187	.794	***21MP-G10075***	***21MP-R10075***
1"	1"	2.250	.985	***21MP-G100***	***21MP-R100***
1"	1¼"	2.438	1.009	***21MP-G100125***	***21MP-R100125***
1"	1½"	2.438	1.025	***21MP-G100150***	***21MP-R100150***
1"	2"	2.625	1.058	***21MP-G100200***	***21MP-R100200***
1½"	⅛"	2.187	.392	---	***21MP-R150-125***
1½"	¼"	2.161	.595	***21MP-G15025***	***21MP-R15025***
1½"	⅜"	2.187	.600	***21MP-G150375***	***21MP-R150375***
1½"	½"	2.187	.782	***21MP-G15050***	***21MP-R15050***
1½"	¾"	2.187	.794	***21MP-G15075***	***21MP-R15075***
1½"	1"	2.437	.985	***21MP-G150100***	***21MP-R150100***
1½"	1¼"	2.438	1.009	***21MP-G150125***	***21MP-R150125***
1½"	1½"	2.250	1.025	***21MP-G150***	***21MP-R150***
1½"	2"	2.625	1.058	***21MP-G150200***	***21MP-R150200***
1½"	2½"	3.281	1.571	***21MP-G150250***	***21MP-R150250***
2"	¼"	2.469	1.009	***21MP-G200125***	***21MP-R200125***
2"	½"	2.188	.782	***21MP-G20050***	***21MP-R20050***
2"	¾"	2.188	.794	***21MP-G20075***	***21MP-R20075***
2"	1"	2.469	.985	***21MP-G200100***	***21MP-R200100***
2"	1½"	2.625	1.009	***21MP-G200150***	***21MP-R200150***
2"	2"	2.638	1.058	***21MP-G200***	***21MP-R200***
2"	2½"	3.125	1.571	***21MP-G200250***	***21MP-R200250***
2"	3"	3.500	1.634	***21MP-G200300***	***21MP-R200300***
2"	4"	3.500	1.734	***21MP-G200400***	***21MP-R200400***
2½"	½"	2.781	.782	***21MP-G25050***	---
2½"	1"	2.781	.782	***21MP-G250100***	***21MP-R250100***
2½"	1½"	2.781	1.025	***21MP-G250150***	***21MP-R250150***
2½"	2"	2.781	1.058	***21MP-G250200***	***21MP-R250200***
2½"	2½"	2.875	1.571	***21MP-G250***	***21MP-R250***
2½"	3"	3.690	1.634	***21MP-G250300***	***21MP-R250300***
3"	1"	3.000	.985	***21MP-G300100***	***21MP-R300100***
3"	1½"	3.000	1.009	***21MP-G300150***	***21MP-R300150***
3"	2"	3.000	1.058	***21MP-G300200***	***21MP-R300200***
3"	2½"	3.000	1.571	***21MP-G300250***	***21MP-R300250***
3"	3"	3.070	1.634	***21MP-G300***	***21MP-R300***
3"	4"	3.500	1.734	***21MP-G300400***	***21MP-R300400***
4"	3"	3.813	1.634	***21MP-G400300***	***21MP-R400300***
4"	4"	3.155	1.734	***21MP-G400***	***21MP-R400***
6"	6"	4.500	1.946	***21MP-G600***	***21MP-R600***



• see pages 242-243 for Pipe Thread data

Clamp Adapters

Female NPT Adapters - *22MP*



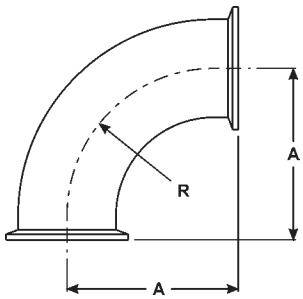
Tube OD	NPT Size	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	⅛"	1.250	---	***22MP-R50-125***
½"	¼"	1.500	---	***22MP-R5025***
½"	⅜"	1.500	---	***22MP-R50375***
½"	½"	1.500	---	***22MP-R50***
½"	¾"	1.500	---	***22MP-R5075***
½"	1"	1.625	---	***22MP-R50100***
½"	1½"	2.250	---	***22MP-R50150***
½"	2"	2.250	---	***22MP-R50200***
¾"	⅛"	1.250	---	***22MP-R75125***
¾"	¼"	1.500	---	***22MP-R7525***
¾"	⅜"	1.500	---	***22MP-R75375***
¾"	½"	1.625	---	***22MP-R7550***
¾"	¾"	1.625	---	***22MP-R75***
¾"	1"	1.625	---	***22MP-R75100***
1"	⅛"	3.281	***22MP-G100-125***	***22MP-R100-125***
1"	¼"	1.625	***22MP-G10025***	***22MP-R10025***
1"	⅜"	1.625	***22MP-G100375***	***22MP-R100375***
1"	½"	1.625	***22MP-G10050***	***22MP-R10050***
1"	¾"	1.625	***22MP-G10075***	***22MP-R10075***
1"	1"	1.625	***22MP-G100***	***22MP-R100***
1"	1¼"	1.625	***22MP-G100125***	***22MP-R100125***
1"	1½"	1.625	***22MP-G100150***	***22MP-R100150***
1"	2"	2.500	***22MP-G100200***	***22MP-R100200***
1½"	⅛"	2.500	***22MP-G150-125***	***22MP-R150-125***
1½"	¼"	1.625	***22MP-G15025***	***22MP-R15025***
1½"	⅜"	1.625	***22MP-G150375***	***22MP-R150375***
1½"	½"	1.625	***22MP-G15050***	***22MP-R15050***
1½"	¾"	1.625	***22MP-G15075***	***22MP-R15075***
1½"	1"	2.250	***22MP-G150100***	***22MP-R150100***
1½"	1¼"	2.250	***22MP-G150125***	***22MP-R150125***
1½"	1½"	2.250	***22MP-G150***	***22MP-R150***
1½"	2"	2.500	***22MP-G150200***	***22MP-R150200***
1½"	2½"	2.500	***22MP-G150250***	---
1½"	3"	2.500	---	***22MP-R150300***
2"	¼"	1.687	***22MP-G20025***	***22MP-R20025***
2"	½"	1.687	***22MP-G20050***	***22MP-R20050***
2"	¾"	1.687	***22MP-G20075***	***22MP-R20075***
2"	1"	1.687	***22MP-G200100***	***22MP-R200100***
2"	1¼"	1.656	***22MP-G200125***	***22MP-R200125***
2"	1½"	2.344	***22MP-G200150***	***22MP-R200150***
2"	2"	2.406	***22MP-G200***	***22MP-R200***
2"	2½"	2.406	***22MP-G200250***	***22MP-R200250***
2"	3"	2.406	***22MP-G200300***	***22MP-R200300***
2"	4"	2.406	***22MP-G200400***	---
2½"	¾"	1.313	***22MP-G25075***	***22MP-R25075***
2½"	1"	1.313	***22MP-G250100***	***22MP-R250100***
2½"	1½"	1.656	***22MP-G250150***	***22MP-R250150***
2½"	2"	2.093	***22MP-G250200***	***22MP-R250200***
2½"	2½"	2.187	***22MP-G250***	***22MP-R250***
2½"	3"	2.187	***22MP-G250300***	***22MP-R250300***
3"	1"	2.187	***22MP-G300100***	***22MP-R300100***
3"	1½"	2.187	***22MP-G300150***	***22MP-R300150***
3"	2"	2.187	***22MP-G300200***	***22MP-R300200***
3"	2½"	2.187	***22MP-G300250***	---
3"	3"	2.187	***22MP-G300***	***22MP-R300***
4"	1½"	2.187	***22MP-G400150***	***22MP-R400150***
4"	2"	2.187	***22MP-G400200***	***22MP-R400200***
4"	2½"	2.187	***22MP-G400250***	***22MP-R400250***
4"	3"	2.187	***22MP-G400300***	***22MP-R400300***
4"	4"	2.625	***22MP-G400***	***22MP-R400***
4"	6"	3.250	***22MP-G400600***	---

• see pages 242-243 for Pipe Thread data

Clamp Elbows

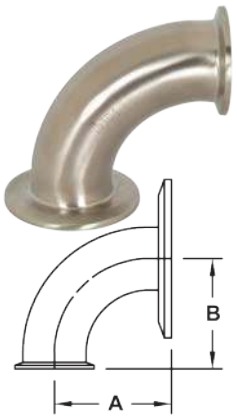
90° Clamp Elbows - *B2CMP*

Tube OD	A	R	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	1.625	1.125	---	***B2CMP-R50***
¾"	1.625	1.125	---	***B2CMP-R75***
½"	3.500	1.125	---	***B2CMPL-R50***
¾"	3.500	1.125	---	***B2CMPL-R75***
1"	2.000	1.500	***B2CMP-G100***	***B2CMP-R100***
1½"	2.750	2.250	***B2CMP-G150***	***B2CMP-R150***
2"	3.500	3.000	***B2CMP-G200***	***B2CMP-R200***
2½"	4.250	3.750	***B2CMP-G250***	***B2CMP-R250***
3"	5.000	4.500	***B2CMP-G300***	***B2CMP-R300***
4"	6.625	6.000	***B2CMP-G400***	***B2CMP-R400***
6"	9.875	9.000	***B2CMP-G600***	***B2CMP-R600***
8"	12.875	12.000	***B2CMP-G800***	***B2CMP-R800***
10"	15.875	15.000	***B2CMP-G1000***	---
12"	18.875	18.000	***B2CMP-G1200***	---



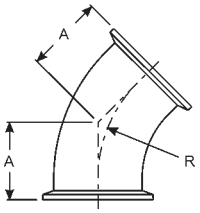
Clamp Elbows

90° Non-Tapered Reducing Clamp Elbows - *B2CM31MP*



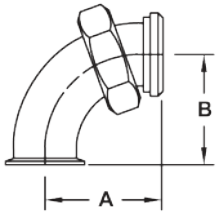
Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
2" x 1½"	2.750	2.750	***B2CM31MPG200150***	***B2CM31MPR200150***
2½" x 2"	3.500	3.500	***B2CM31MPG250200***	***B2CM31MPR250200***
3" x 2"	3.500	3.500	***B2CM31MPG300200***	***B2CM31MPR300200***
3" x 2½"	4.250	4.250	***B2CM31MPG300250***	***B2CM31MPR300250***

45° Clamp Elbows - *B2KMP*



Tube OD	A	R	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	.966	1.125	---	***B2KMP-R50***
¾"	.966	1.125	---	***B2KMP-R75***
1"	1.125	1.500	***B2KMP-G100***	***B2KMP-R100***
1½"	1.437	2.250	***B2KMP-G150***	***B2KMP-R150***
2"	1.750	3.000	***B2KMP-G200***	***B2KMP-R200***
2½"	2.062	3.750	***B2KMP-G250***	***B2KMP-R250***
3"	2.375	4.500	***B2KMP-G300***	***B2KMP-R300***
4"	3.125	6.000	***B2KMP-G400***	***B2KMP-R400***
6"	4.625	9.000	***B2KMP-G600***	***B2KMP-R600***
8"	5.875	12.000	***B2KMP-G800***	***B2KMP-R800***
10"	7.125	15.000	***B2KMP-G1000***	---
12"	8.375	18.000	***B2KMP-G1200***	---

90° Clamp by Plain Bevel Seat with Hex Nut Elbows - *B2FMP-14*



Tube OD	A	B	*304 Stainless Steel* Part Number
1"	2.218	2.000	***B2FMP-14-G100***
1½"	2.968	2.750	***B2FMP-14-G150***
2"	3.750	3.500	***B2FMP-14-G200***
2½"	4.625	4.250	***B2FMP-14-G250***
3"	5.406	5.000	***B2FMP-14-G300***
4"	7.031	6.625	***B2FMP-14-G400***

Other types of elbows available call Dixon Sanitary for information

B2CMP-14

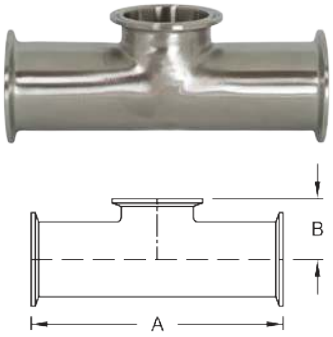
B2FMP-15

B2SXLMP
various radii

Clamp Tees

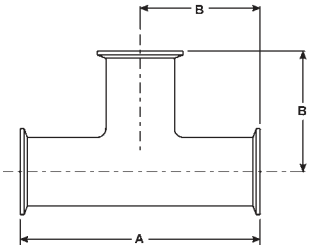
Short Outlet Tees - *B7MPS* 3A

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	4.750	1.125	***B7MPS-G100***	***B7MPS-R100***
1½"	5.500	1.375	***B7MPS-G150***	***B7MPS-R150***
2"	7.000	1.625	***B7MPS-G200***	***B7MPS-R200***
2½"	7.000	1.875	***B7MPS-G250***	***B7MPS-R250***
3"	7.500	2.125	***B7MPS-G300***	***B7MPS-R300***
4"	9.000	2.750	***B7MPS-G400***	***B7MPS-R400***



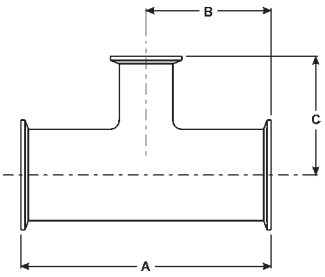
Clamp Tees - *B7MP* 3A

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	4.750	2.375	***---***	***B7MP-R50***
¾"	5.000	2.500	***---***	***B7MP-R75***
1"	4.750	2.375	***B7MP-G100***	***B7MP-R100***
1½"	5.500	2.750	***B7MP-G150***	***B7MP-R150***
2"	7.000	3.500	***B7MP-G200***	***B7MP-R200***
2½"	7.000	3.500	***B7MP-G250***	***B7MP-R250***
3"	7.500	3.750	***B7MP-G300***	***B7MP-R300***
4"	9.000	4.500	***B7MP-G400***	***B7MP-R400***
6"	13.000	6.500	***B7MP-G600***	***B7MP-R600***
8"	15.750	7.875	***B7MP-G800***	***B7MP-R800***
10"	18.750	9.735	***B7MP-G1000***	***---***
12"	21.750	10.735	***B7MP-G1200***	***---***



Clamp Reducing Tees - *B7RMP* 3A

Tube OD	A	B	C	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾" x ½"	5.000	2.500	2.500	***---***	***B7RMP-R7550***
1" x ½"	5.250	2.625	2.625	***---***	***B7RMP-R10050***
1" x ¾"	5.250	2.625	2.625	***---***	***B7RMP-R10075***
1½" x ½"	5.750	2.875	2.875	***---***	***B7RMP-R15050***
1½" x ¾"	5.250	2.875	2.875	***---***	***B7RMP-R15075***
1½" x 1"	4.312	2.156	1.875	***B7RMP-G150100***	***B7RMP-R150100***
2" x ½"	6.750	3.375	3.125	***---***	***B7RMP-R20050***
2" x ¾"	6.750	3.375	3.125	***---***	***B7RMP-R20075***
2" x 1"	5.125	2.562	2.125	***B7RMP-G200100***	***B7RMP-R200100***
2" x 1½"	5.125	2.562	2.406	***B7RMP-G200150***	***B7RMP-R200150***
2½" x 1½"	5.688	2.844	2.656	***B7RMP-G250150***	***B7RMP-R250150***
2½" x 2"	5.688	2.844	2.812	***B7RMP-G250200***	***B7RMP-R250200***
3" x 1½"	6.188	3.093	2.906	***B7RMP-G300150***	***B7RMP-R300150***
3" x 2"	6.188	3.093	3.063	***B7RMP-G300200***	***B7RMP-R300200***
3" x 2½"	6.188	3.093	3.093	***B7RMP-G300250***	***B7RMP-R300250***
4" x 1½"	8.125	4.063	3.406	***B7RMP-G400150***	***B7RMP-R400150***
4" x 2"	8.125	4.063	3.563	***B7RMP-G400200***	***B7RMP-R400200***
4" x 2½"	8.125	4.063	3.594	***B7RMP-G400250***	***B7RMP-R400250***
4" x 3"	8.125	4.063	3.594	***B7RMP-G400300***	***B7RMP-R400300***

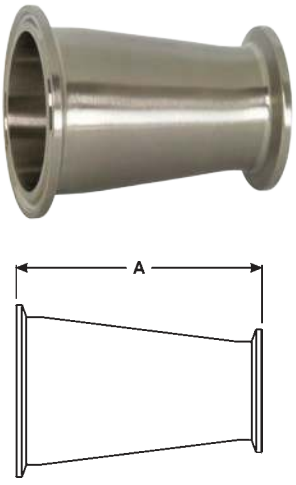


Other types of tees available call Dixon Sanitary for information

B7RMPS

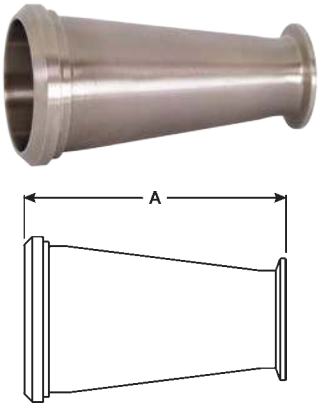
Clamp Reducers

Clamp Concentric Reducers - *B3114MP*



Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾" x ½"	2.000	---	***B3114MP-R7550***
1" x ½"	3.000	---	***B3114MP-R10050***
1" x ¾"	2.000	---	***B3114MP-R10075***
1½" x ½"	5.000	---	***B3114MP-R15050***
1½" x ¾"	4.000	---	***B3114MP-R15075***
1½" x 1"	3.000	***B3114MP-G150100***	***B3114MP-R150100***
2" x ½"	7.000	---	***B3114MP-R20050***
2" x ¾"	6.000	---	***B3114MP-R20075***
2" x 1"	5.000	***B3114MP-G200100***	***B3114MP-R200100***
2" x 1½"	3.000	***B3114MP-G200150***	***B3114MP-R200150***
2½" x 1½"	5.000	***B3114MP-G250150***	***B3114MP-R250150***
2½" x 2"	3.000	***B3114MP-G250200***	***B3114MP-R250200***
3" x 1"	9.000	***B3114MP-G300100***	***B3114MP-R300100***
3" x 1½"	7.000	***B3114MP-G300150***	***B3114MP-R300150***
3" x 2"	5.000	***B3114MP-G300200***	***B3114MP-R300200***
3" x 2½"	3.000	***B3114MP-G300250***	***B3114MP-R300250***
4" x 1½"	11.125	***B3114MP-G400150***	***B3114MP-R400150***
4" x 2"	9.125	***B3114MP-G400200***	***B3114MP-R400200***
4" x 2½"	7.125	***B3114MP-G400250***	***B3114MP-R400250***
4" x 3"	5.125	***B3114MP-G400300***	***B3114MP-R400300***
6" x 2"	6.875	***B3114MP-G600200***	***B3114MP-R600200***
6" x 3"	6.875	***B3114MP-G600300***	***B3114MP-R600300***
6" x 4"	7.000	***B3114MP-G600400***	***B3114MP-R600400***
8" x 4"	7.500	***B3114MP-G800400***	***B3114MP-R800400***
8" x 6"	7.750	***B3114MP-G800600***	***B3114MP-R800600***

Plain Bevel Seat x Clamp Concentric Reducers - *B14C31*



Tube OD	A	*304 Stainless Steel* Part Number
1½" x 1"	3.218	***B14C31-G150100*** [1]
2" x 1½"	3.250	***B14C31-G200150***
2½" x 1½"	5.375	***B14C31-G250150***
2½" x 2"	3.375	***B14C31-G250200***
3" x 1½"	7.406	***B14C31-G300150***
3" x 2"	5.406	***B14C31-G300200***
3" x 2½"	3.406	***B14C31-G300250***

[1] comes with 13H-G150, hex nut cannot be assembled on fitting after welding

Other types of concentric reducers available call Dixon Sanitary for information

B3114

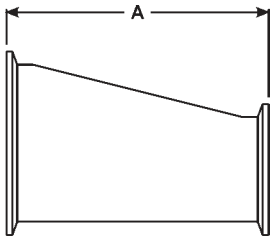
B3115

B15C31

Clamp Reducers

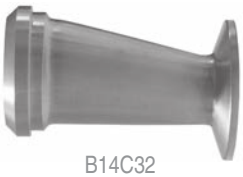
Clamp Eccentric Reducers - *B3214MP*

Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾" x ½"	2.000	---	***B3214MP-R7550***
1" x ½"	3.000	---	***B3214MP-R10050***
1" x ¾"	2.000	---	***B3214MP-R10075***
1½" x ½"	5.000	---	***B3214MP-R15050***
1½" x ¾"	4.000	---	***B3214MP-R15075***
1½" x 1"	3.000	***B3214MP-G150100***	***B3214MP-R150100***
2" x ½"	7.000	---	***B3214MP-R20050***
2" X ¾"	6.000	---	***B3214MP-R20075***
2" x 1"	5.000	***B3214MP-G200100***	***B3214MP-R200100***
2" x 1½"	3.000	***B3214MP-G200150***	***B3214MP-R200150***
2½" x 1½"	5.000	***B3214MP-G250150***	***B3214MP-R250150***
2½" x 2"	3.000	***B3214MP-G250200***	***B3214MP-R250200***
3" x 1"	9.000	***B3214MP-G300100***	***B3214MP-R300100***
3" x 1½"	7.000	***B3214MP-G300150***	***B3214MP-R300150***
3" x 2"	5.000	***B3214MP-G300200***	***B3214MP-R300200***
3" x 2½"	3.000	***B3214MP-G300250***	***B3214MP-R300250***
4" x 1½"	11.125	***B3214MP-G400150***	***B3214MP-R400150***
4" x 2"	9.125	***B3214MP-G400200***	***B3214MP-R400200***
4" x 2½"	7.125	***B3214MP-G400250***	***B3214MP-R400250***
4" x 3"	5.125	***B3214MP-G400300***	***B3214MP-R400300***
6" x 3"	6.875	***B3214MP-G600300***	***B3214MP-R600300***
6" x 4"	7.000	***B3214MP-G600400***	***B3214MP-R600400***
8" x 4"	7.500	***B3214MP-G800400***	***B3214MP-R800400***
8" x 6"	7.750	***B3214MP-G800600***	***B3214MP-R800600***



Other types of eccentric reducers available call Dixon Sanitary for information

B3214



B14C32

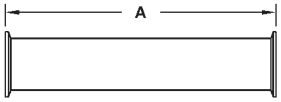
B3215

B15C32

Miscellaneous Clamp Configurations

Spool Assembly - *SPOOL*

Tube OD	A (minimum length)	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	2.25	***SPOOL*-G050***	***SPOOL*-R050***
¾"	2.25	***SPOOL*-G075***	***SPOOL*-R075***
1"	2.25	***SPOOL*-G100***	***SPOOL*-R100***
1½"	2.25	***SPOOL*-G150***	***SPOOL*-R150***
2"	2.25	***SPOOL*-G200***	***SPOOL*-R200***
2½"	2.25	***SPOOL*-G250***	***SPOOL*-R250***
3"	2.25	***SPOOL*-G300***	***SPOOL*-R300***
4"	2.25	***SPOOL*-G400***	***SPOOL*-R400***
6"	3.00	***SPOOL*-G600***	***SPOOL*-R600***

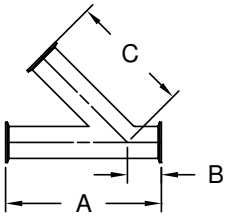


* overall length in inches

Miscellaneous Clamp Configurations

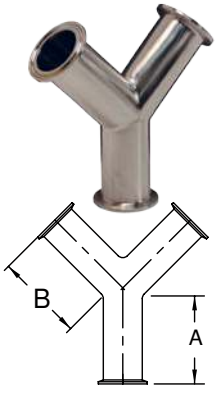
Clamp Laterals - *B28AMP*

Tube OD	A	B	C	*316L Stainless Steel* Part Number
1"	7.000	1.500	5.500	**B28AMP-R100**
1½"	8.375	1.688	6.688	**B28AMP-R150**
2"	9.750	2.125	7.625	**B28AMP-R200**
2½"	11.000	2.000	9.000	**B28AMP-R250**
3"	11.750	2.375	9.375	**B28AMP-R300**
4"	14.062	2.640	11.312	**B28AMP-R400**



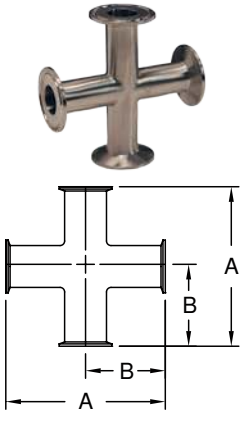
Clamp True Wyes - *B28BMP*

Tube OD	A	B	*316L Stainless Steel* Part Number
1"	2.500	2.938	**B28BMP-R100**
1½"	2.500	2.938	**B28BMP-R150**
2"	3.125	3.750	**B28BMP-R200**
2½"	3.870	4.625	**B28BMP-R250**
3"	4.500	5.375	**B28BMP-R300**
4"	6.000	6.000	**B28BMP-R400**



Clamp Crosses - *B9MP*

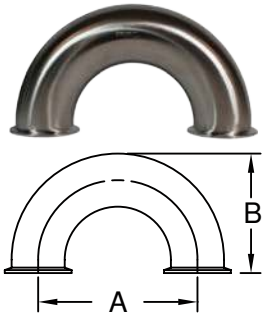
Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	4.750	2.375	**B9MP-G100**	**B9MP-R100**
1½"	5.500	2.750	**B9MP-G150**	**B9MP-R150**
2"	7.000	3.500	**B9MP-G200**	**B9MP-R200**
2½"	7.000	3.500	**B9MP-G250**	**B9MP-R250**
3"	7.500	3.750	**B9MP-G300**	**B9MP-R300**
4"	9.000	4.500	**B9MP-G400**	**B9MP-R400**



Clamp 180° Return Bends - *B2WUMP*

- bends are 1.5 x tube diameter

Tube OD	A	B	*316L Stainless Steel* Part Number
1"	3.000	2.500	**B2WUMP-R100**
1½"	4.500	3.500	**B2WUMP-R150**
2"	6.000	4.500	**B2WUMP-R200**
2½"	7.500	5.500	**B2WUMP-R250**
3"	9.000	6.500	**B2WUMP-R300**
4"	12.000	8.625	**B2WUMP-R400**



Clamp End Protection Covers - *BCC*

Features:
- Use these covers to protect all clamp ends on fittings, valves, filters and pumps.
- vinyl plastic

Size	Part Number
½"	**BCC-050**
¾"	**BCC-075**
1"	**BCC-100**
1½"	**BCC-150**
2"	**BCC-200**
2½"	**BCC-250**
3"	**BCC-300**
4"	**BCC-400**
6"	**BCC-600**
8"	**BCC-800**

Sanitary Breakaway Clamp Version

63-03
621

Applications:
- Minimizes spillage and damage associated with pull away and drive away incidents

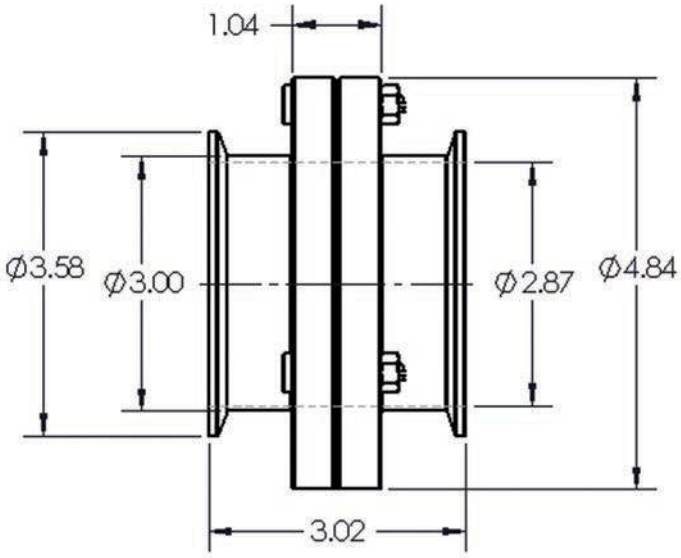
Features:
- designed to be installed between a fixed point and a hose
- coupling breaks away with an excessive load
- EPDM standard clamp gasket, optional material available
- working pressure: 350 PSI @ 70°F
- 13kN break load bolts standard, other break loads available
- 316 stainless steel polished to standard <32R_a, 3A finish

Clamp End

Part Number
SBC-E300CC13

- Other sizes and connections available

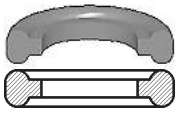
Dimensions



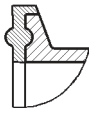
Clamp Gaskets

Feature:

- Gasket material approved by 3A (3A), USDA and complies with FDA's 21CFR177.2600 and 1550. PSI Service Ratings for the sanitary clamps *DO NOT APPLY* to connections (1" and above) using any PTFE gaskets, due to the potential for cold flow under normal operating conditions. PTFE gaskets, when used with any clamp, are likely to leak at pressures far below the published service ratings. This restriction *does not apply* to the fractionally sized ½" and ¾" connections, due to their recessed, fully contained design.


Mini

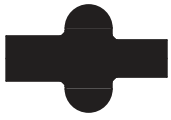
Standard - type 1



Flanged - type 2

Buna-N Clamp Gaskets - *Black*

Type 1 - Standard
½" - ¾"


Type 1 - Standard
1" and larger

Features:

- color code: red dot
- meets 21CFR 177.2600

Size	Part Number
½"	***42MP-U50***
¾"	***42MP-U75***
1"	***40MP-U100***
1½"	***40MP-U150***
2"	***40MP-U200***
2½"	***40MP-U250***
3"	***40MP-U300***
4"	***40MP-U400***
5"	***40MP-U500***
6"	***40MP-U600***
8"	***40MP-U800***

Buna-N Clamp Gaskets - *White*

Type 1 - Standard
½" - ¾"

Type 1 - Standard
1" and larger

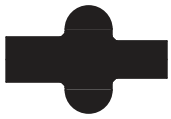
Features:

- color code: red dot
- meets 21CFR 177.2600

Size	Part Number
½"	***42MP-UW50***
¾"	***42MP-UW75***
1"	***40MP-UW100***
1½"	***40MP-UW150***
2"	***40MP-UW200***
2½"	***40MP-UW250***
3"	***40MP-UW300***
4"	***40MP-UW400***
6"	***40MP-UW600***

EPDM Clamp Gaskets - *Black*

Type 1 - Standard
½" - ¾"


Type 1 - Standard
1" and larger

Features:

- color code: three green dots
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

Size	Part Number
½"	***42MP-E50***
¾"	***42MP-E75***
1"	***40MP-E100***
1½"	***40MP-E150***
2"	***40MP-E200***
2½"	***40MP-E250***
3"	***40MP-E300***
4"	***40MP-E400***
5"	***40MP-E500***
6"	***40MP-E600***

Note: see pages 32-33 for sizing charts / refer to pages 236-238 for compatibility information

Clamp Gaskets

FKM Clamp Gaskets - *Black*

Size	Part Number
½"	***42MP-SFY50***
¾"	***42MP-SFY75***
1"	***40MP-SFY100***
1½"	***40MP-SFY150***
2"	***40MP-SFY200***
2½"	***40MP-SFY250***
3"	***40MP-SFY300***
4"	***40MP-SFY400***
6"	***40MP-SFY600***

Type 1 - Standard
½" - ¾"

Type 1 - Standard
1" and larger

Features:
- color code: one white dot and one yellow dot
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

Silicone Clamp Gaskets - *White*

Size	Part Number
½"	***42MP-XW50***
¾"	***42MP-XW75***
1"	***40MP-XW100***
1½"	***40MP-XW150***
2"	***40MP-XW200***
2½"	***40MP-XW250***
3"	***40MP-XW300***
4"	***40MP-XW400***
6"	***40MP-XW600***

Type 1 - Standard
½" - ¾"

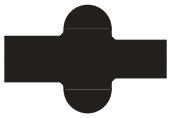
Type 1 - Standard
1" and larger

Features:
- color code: pink dot
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

Silicone Clamp Gaskets - *Clear*

Size	Part Number
½"	***42MP-XC50***
¾"	***42MP-XC75***
1"	***40MP-XC100***
1½"	***40MP-XC150***
2"	***40MP-XC200***
2½"	***40MP-XC250***
3"	***40MP-XC300***
4"	***40MP-XC400***

Type 1 - Standard
½" - ¾"



Type 1 - Standard
1" and larger

Features:
- color code: no dot
- peroxide cured
- meets 21CFR 177.2600

PTFE Clamp Gaskets - *White*

Size	Part Number
½"	***42MP-G50***
¾"	***42MP-G75***
1"	***40MP-G100***
1½"	***40MP-G150***
2"	***40MP-G200***
2½"	***40MP-G250***
3"	***40MP-G300***
4"	***40MP-G400***
5"	***40MP-G500***
6"	***40MP-G600***
8"	***40MP-G800***
10"	***40MP-G1000***
12"	***40MP-G1200***

Type 1 - Standard
½" - ¾"

Type 1 - Standard
1" and larger

Features:
- color code: no dot
- meets 21CFR 177.1550
- passed U.S.P. Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

Note: see pages 32-33 for sizing charts / refer to pages 236-238 for compatibility information

Clamp Gaskets

Metal Detectable Clamp Gaskets

Type 1 - Standard
½" - ¾"

Type 1 - Standard
1" and larger

Feature:
- Metal detectable gaskets are impregnated with stainless steel particles. The addition of stainless steel allows a gasket or gasket pieces to be found with metal detection equipment.

Buna-N - *Metal Detectable Clamp Gaskets*

Features:
- minimum temperature **-20°F**
- maximum temperature **212°F**
- good general use where temperature extremes do not exist

Size	Part Number
1"	***40MP-UZ100***
1½"	***40MP-UZ150***
2"	***40MP-UZ200***
2½"	***40MP-UZ250***
3"	***40MP-UZ300***
4"	***40MP-UZ400***

EPDM - *Metal Detectable Clamp Gaskets*

Features:
- minimum temperature **-70°F**
- maximum temperature **310°F**
- resistant to steam, water and base solutions

Size	Part Number
1"	***40MP-EZ100***
1½"	***40MP-EZ150***
2"	***40MP-EZ200***
2½"	***40MP-EZ250***
3"	***40MP-EZ300***
4"	***40MP-EZ400***

FKM - *Metal Detectable Clamp Gaskets*

Features:
- minimum temperature **-20°F**
- maximum temperature **410°F**
- resistant to steam, heat and high acid solutions

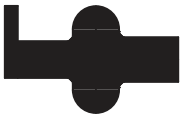
Size	Part Number
1"	***40MP-SFYZ100***
1½"	***40MP-SFYZ150***
2"	***40MP-SFYZ200***
2½"	***40MP-SFYZ250***
3"	***40MP-SFYZ300***
4"	***40MP-SFYZ400***

Note: see pages 32-33 for sizing charts / refer to pages 236-238 for compatibility information

Clamp Flanged Gaskets

Buna-N - *Flanged Clamp Gaskets - Black*

Size	Part Number
1"	***40MPF-U100***
1½"	***40MPF-U150***
2"	***40MPF-U200***
2½"	***40MPF-U250***
3"	***40MPF-U300***
4"	***40MPF-U400***
6"	***40MPF-U600***
8"	***40MPF-U800***
10"	***40MPF-U1000***
12"	***40MPF-U1200***

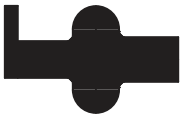


Type 2 - Flanged
1" and larger

Features:
- color code: red dot
- meets 21CFR 177.2600
- not recommended for use with bolted clamps

Buna-N - *Flanged Clamp Gaskets - White*

Size	Part Number
1"	***40MPF-UW100***
1½"	***40MPF-UW150***
2"	***40MPF-UW200***
2½"	***40MPF-UW250***
3"	***40MPF-UW300***
4"	***40MPF-UW400***
6"	***40MPF-UW600***
8"	***40MPF-UW800***

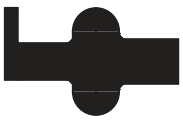


Type 2 - Flanged
1" and larger

Features:
- color code: red dot
- meets 21CFR 177.2600
- not recommended for use with bolted clamps

EPDM - *Flanged Clamp Gaskets - Black*

Size	Part Number
1"	***40MPF-E100***
1½"	***40MPF-E150***
2"	***40MPF-E200***
2½"	***40MPF-E250***
3"	***40MPF-E300***
4"	***40MPF-E400***
6"	***40MPF-E600***
8"	***40MPF-E800***
10"	***40MPF-E1000***
12"	***40MPF-E1200***



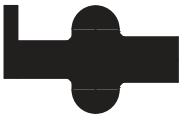
Type 2 - Flanged
1" and larger

Features:
- color code: three green dots
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

Note: see pages 32-33 for sizing charts / refer to pages 236-238 for compatibility information

Clamp Flanged Gaskets

FKM - *Flanged Clamp Gaskets - Black*

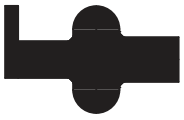


Type 2 - Flanged
1" and larger

Features:
- color code: one white dot, one yellow dot
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

Size	Part Number
1"	***40MPF-SFY100***
1½"	***40MPF-SFY150***
2"	***40MPF-SFY200***
2½"	***40MPF-SFY250***
3"	***40MPF-SFY300***
4"	***40MPF-SFY400***
6"	***40MPF-SFY600***
8"	***40MPF-SFY800***
10"	***40MPF-SFY1000***
12"	***40MPF-SFY1200***

Silicone - *Flanged Clamp Gaskets - White*

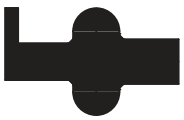


Type 2 - Flanged
1" and larger

Features:
- color code: pink dot
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

Size	Part Number
1"	***40MPF-XW100***
1½"	***40MPF-XW150***
2"	***40MPF-XW200***
2½"	***40MPF-XW250***
3"	***40MPF-XW300***
4"	***40MPF-XW400***
6"	***40MPF-XW600***
8"	***40MPF-XW800***
10"	***40MPF-XW1000***
12"	***40MPF-XW1200***

Silicone - *Flanged Clamp Gaskets - Clear*



Type 2 - Flanged
1" and larger

Features:
- color code: no dot
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

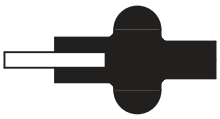
Size	Part Number
1"	***40MPF-XC100***
1½"	***40MPF-XC150***
2"	***40MPF-XC200***
2½"	***40MPF-XC250***
3"	***40MPF-XC300***
4"	***40MPF-XC400***
6"	***40MPF-XC600***
8"	***40MPF-XC800***

Note: see pages 32-33 for sizing charts / refer to pages 236-238 for compatibility information

Clamp Screened Gaskets

Buna-N - Mesh Screen *Clamp Gaskets, 316*

Size	Part Number
1"	***40MPS-U100***
1½"	***40MPS-U150***
2"	***40MPS-U200***
2½"	***40MPS-U250***
3"	***40MPS-U300***
4"	***40MPS-U400***

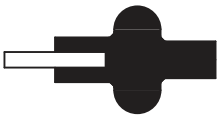


Type 3 - Mesh

Features:
- color code: red dot
- 10 mesh standard, other mesh available, call for details
- meets 21CFR 177.2600

EPDM - Mesh Screen *Clamp Gaskets, 316*

Size	Part Number
1"	***40MPS-E100***
1½"	***40MPS-E150***
2"	***40MPS-E200***
2½"	***40MPS-E250***
3"	***40MPS-E300***
4"	***40MPS-E400***

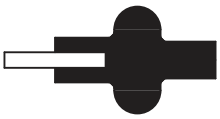


Type 3 - Mesh

Features:
- color code: three green dots
- 10 mesh standard, other materials available, call for details
- peroxide cured
- meets 21CFR 177.2600

FKM - Mesh Screen *Clamp Gaskets, 316*

Size	Part Number
1"	***40MPS-SFY100***
1½"	***40MPS-SFY150***
2"	***40MPS-SFY200***
2½"	***40MPS-SFY250***
3"	***40MPS-SFY300***
4"	***40MPS-SFY400***



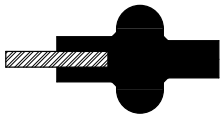
Type 3 - Mesh

Features:
- color code: one white dot, one yellow dot
- 10 mesh standard, other mesh available, call for details
- peroxide cured
- meets 21CFR 177.2600

Note: see pages 32-33 for sizing charts / refer to pages 236-238 for compatibility information / refer to page 235 for additional mesh sizes

Clamp Perforated Gaskets

Buna-N Perforated Clamp Gaskets - *.033" holes*



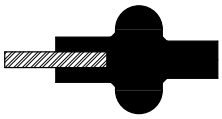
Type 3 - Perforated

Features:
- color code: red dot
- perforated metal disc 316 stainless steel sheet
- meets 21CFR 177.2600

Size	Part Number
1"	***40MP-UP100***
1½"	***40MP-UP150***
2"	***40MP-UP200***
2½"	***40MP-UP250***
3"	***40MP-UP300***
4"	***40MP-UP400***

Clamp **Orifice Gaskets**

Buna-N Orifice Clamp Gaskets - *Black, .125" hole*

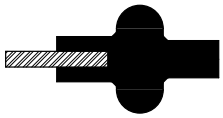


Type 3

Features:
- color code: red dot
- 316 stainless steel sheet;
  other hole sizes available, call for details
- meets 21CFR 177.2600

Size	Part Number
1"	***A80MP-U100***
1½"	***A80MP-U150***
2"	***A80MP-U200***
2½"	***A80MP-U250***
3"	***A80MP-U300***
4"	***A80MP-U400***

FKM Orifice Clamp Gaskets - *.125" hole*



Type 3

Features:
- color code: one white dot, one yellow dot
- 316 stainless steel sheet;
  other hole sizes available, call for details
- peroxide cured
- meets 21CFR 177.2600

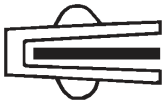
Size	Part Number
1"	***A80MP-SFY100***
1½"	***A80MP-SFY150***
2"	***A80MP-SFY200***
2½"	***A80MP-SFY250***
3"	***A80MP-SFY300***
4"	***A80MP-SFY400***

Note: see pages 32-33 for sizing charts / refer to pages 236-238 for compatibility information

Clamp Envelope Gaskets

PTFE envelope clamp gaskets with EPDM filler

Size	Part Number
½"	***42MP-GRE50***
¾"	***42MP-GRE75***
1"	***40MP-GRE100***
1½"	***40MP-GRE150***
2"	***40MP-GRE200***
2½"	***40MP-GRE250***
3"	***40MP-GRE300***
4"	***40MP-GRE400***
6"	***40MP-GRE600***

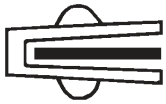


Features:
- color code: usually not marked
- peroxide cured EPDM
- meets 21CFR 177.1550
- PTFE passed USP Class VI Cytotoxicity testing

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

PTFE envelope clamp gaskets with FKM filler

Size	Part Number
½"	***42MP-GR50***
¾"	***42MP-GR75***
1"	***40MP-GR100***
1½"	***40MP-GR150***
2"	***40MP-GR200***
2½"	***40MP-GR250***
3"	***40MP-GR300***
4"	***40MP-GR400***
6"	***40MP-GR600***
8"	***40MP-GR800***

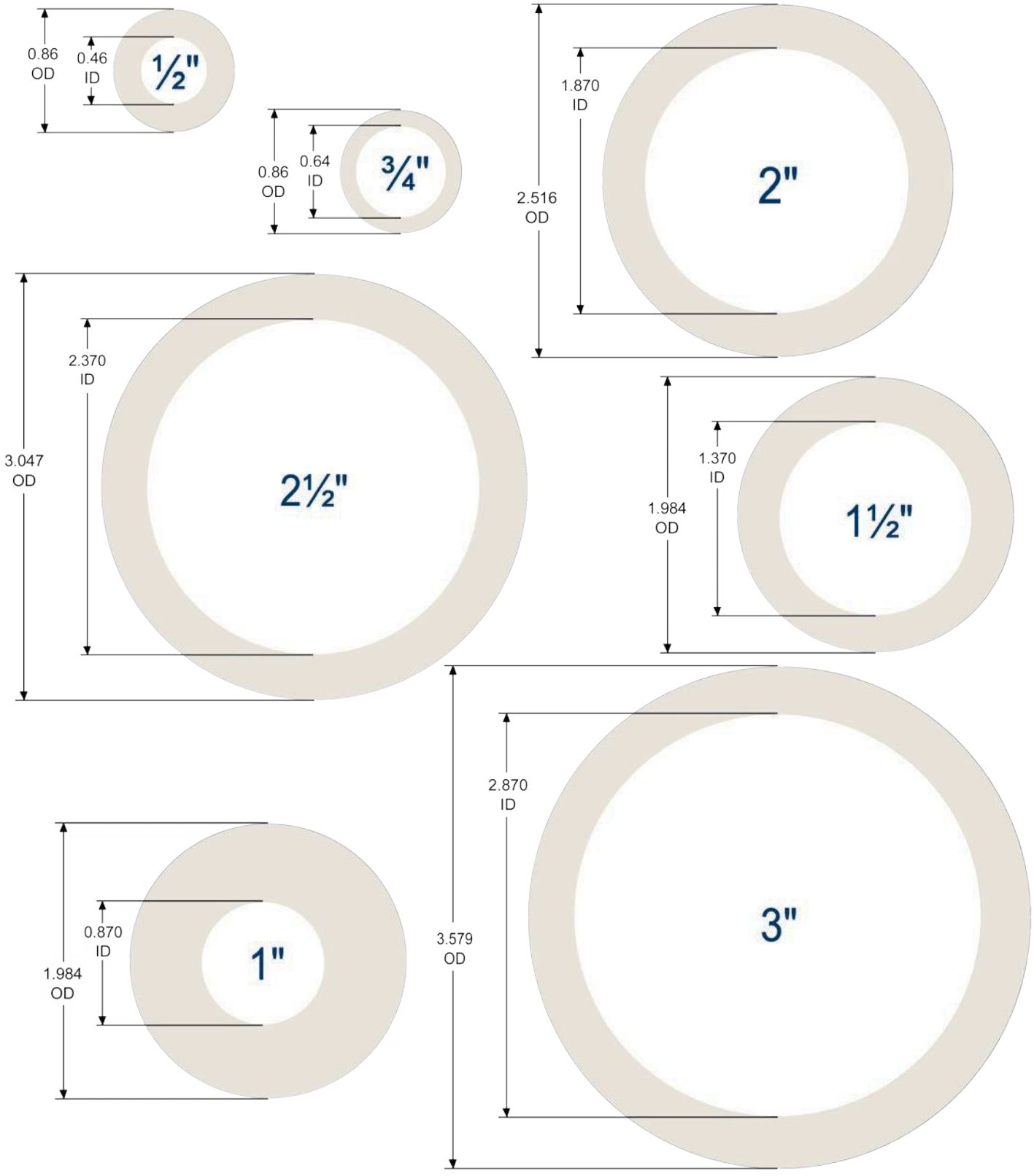


Features:
- color code: usually not marked
- peroxide cured FKM
- meets 21CFR 177.1550
- PTFE passed USP Class VI Cytotoxicity testing

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

Note: see pages 32-33 for sizing charts / refer to pages 236-238 for compatibility information

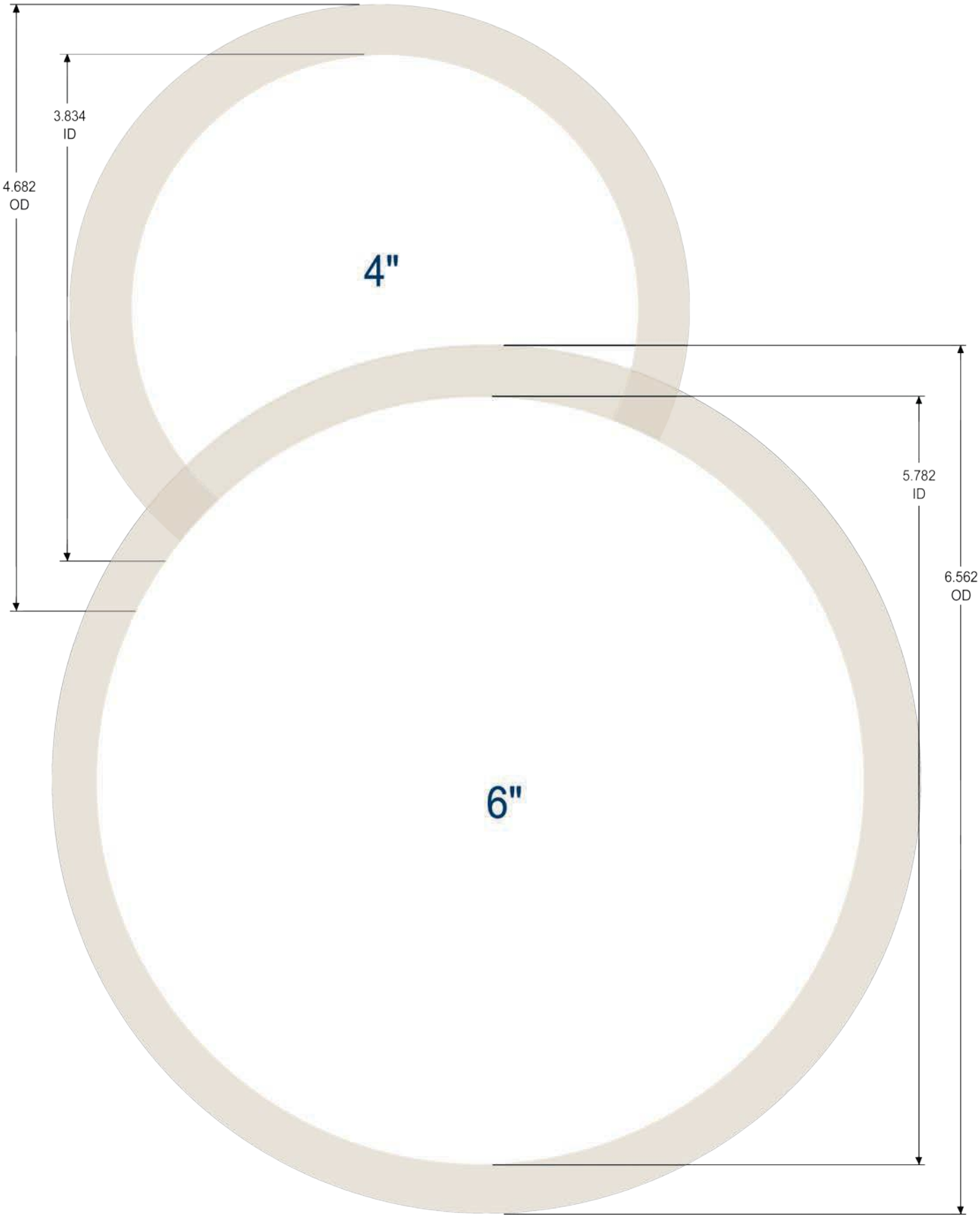
Clamp Fittings and Gasket Sizing Guide



Sanitary Size	OD of Clamp End	ID of Fitting
½"	0.992	0.370
¾"	0.992	0.620
1"	1.984	0.870
1½"	1.984	1.370
2"	2.516	1.870
2½"	3.047	2.370

Sanitary Size	OD of Clamp End	ID of Fitting
3"	3.579	2.870
4"	4.682	3.834
6"	6.562	5.782
8"	8.602	7.782
10"	10.570	9.782
12"	12.570	11.760

Clamp Fittings and Gasket Sizing Guide

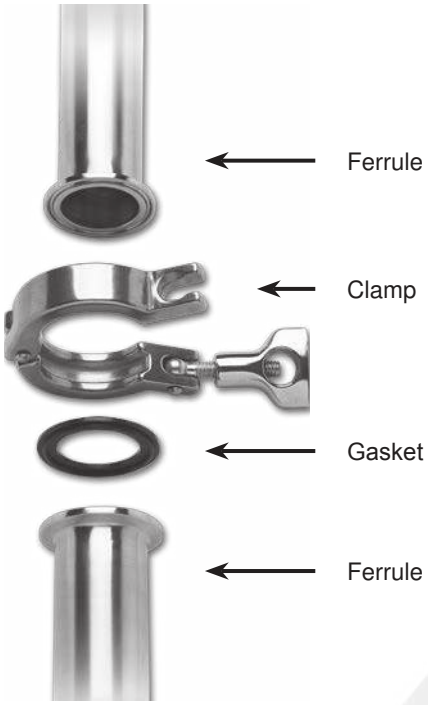


B

3A 63-03 621

Dixon Sanitary Pipe Fittings

A Complete Pipe Clamp Connection



Product Specifications

Size range:
- 1" - 6" nominal pipe

Materials:
- G = 304 stainless steel
- R = 316L stainless steel
- other alloys are available

Finish:
- 3A sanitary finish ID and OD

Dimensions of Stainless Steel Pipe given in inches

Nominal Pipe Size	Outside Diameter	Nominal Wall Thickness (inches)	
		schedule 5S	schedule 10S
1"	1.32	.065	.109
1½"	1.90	.065	.109
2"	2.38	.065	.109
2½"	2.88	.083	.120
3"	3.50	.083	.120
4"	4.50	.083	.120
6"	6.62	.109	.134

This section contains pipe materials. Please note in sizes ½" through 12" pipe is known by its nominal inside diameter, which differs from its actual inside diameter. To distinguish pipe sizes from actual measured diameters as used for tube, the terms *iron pipe size* (IPS) or *nominal pipe size* (NPS) are usually used. For all pipe sizes, the outside diameter (OD) remains constant; the variations in wall thickness affect the inside diameter (ID).

Stainless steel schedule numbers from schedule 5S through schedule 80S are published in ANSI B36.19 for sizes through 12". The addition of the letter "S" after the schedule number identifies it as pertaining to stainless steel.

Pipe size and Tube OD size materials are not interchangeable

Index

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Ferrules 35-36
Caps 36
Adapters 37
Hangers 38-40
Gaskets 40
Pipe Gasket Sizing Chart 41-42

B

Pipe Size Clamps

Schedule 5S and 10S Single Pin Heavy Duty Clamps - *13MHHV*

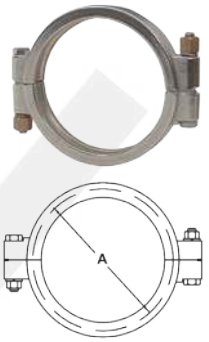
Pipe Size	A	Service pressure rating @ 70°F [1]	Part Number
1"	2.122	500	***13MHHV100***
1½"	2.654	450	***13MHHV150***
2"	3.185	400	***13MHHV200***
2½"	3.717	350	***13MHHV250***
3"	4.263	250	***13MHHV300***
4"	5.263	150	***13MHHV400***
6"	7.500	100	***13MHHV600***

[1] wing nut tightened to 25 in. lbs. of torque

Schedule 5S and 10S Bolted Clamps - *13MHPV*

Pipe Size	A	Service pressure rating @ 70°F [1]	Part Number
1"	2.046	750	***13MHPV100***
1½"	2.578	500	***13MHPV150***
2"	3.110	500	***13MHPV200***
2½"	3.460	500	***13MHPV250***
4"	5.188	400	***13MHPV400***

[1] bronze nuts tightened to 20 ft. lbs. of torque

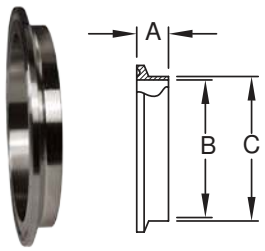


Note: see page 34 for pipe size information

Pipe Size Ferrules

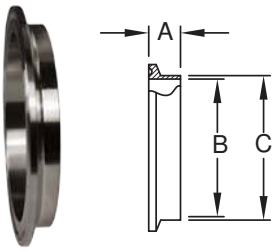
Schedule 5S Short Weld Ferrules - *14WMV* A3

Pipe Size	A	B	C	*316L Stainless Steel* Part Number
1"	.500	1.185	1.315	***14WMV-R100***
1½"	.500	1.770	1.900	***14WMV-R150***
2"	.500	2.245	2.375	***14WMV-R200***
2½"	.500	2.709	2.875	***14WMV-R250***
3"	.500	3.334	3.500	***14WMV-R300***
4"	.625	4.334	4.500	***14WMV-R400***
6"	.875	6.407	6.625	***14WMV-R600***



Schedule 10S Short Weld Ferrules - *14WMX* A3

Pipe Size	A	B	C	*316L Stainless Steel* Part Number
1"	.500	1.097	1.315	***14WMX-R100***
1½"	.500	1.682	1.900	***14WMX-R150***
2"	.500	2.157	2.375	***14WMX-R200***
2½"	.500	2.635	2.875	***14WMX-R250***
3"	.500	3.260	3.500	***14WMX-R300***
4"	.625	4.260	4.500	***14WMX-R400***
6"	.875	6.350	6.625	***14WMX-R600***

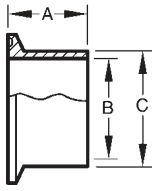


Note: see page 34 for pipe size information

B

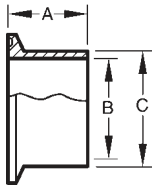
Pipe Size Ferrules

Schedule 5S Long Weld Ferrules - *L14AM7V*



Pipe Size	A	B	C	*316L Stainless Steel* Part Number
1"	1.125	1.185	1.315	***L14AM7V-R100***
1½"	1.125	1.770	1.900	***L14AM7V-R150***
2"	1.125	2.245	2.375	***L14AM7V-R200***
2½"	1.125	2.709	2.875	***L14AM7V-R250***
3"	1.125	3.334	3.500	***L14AM7V-R300***
4"	1.125	4.334	4.500	***L14AM7V-R400***
6"	1.500	6.407	6.625	***L14AM7V-R600***

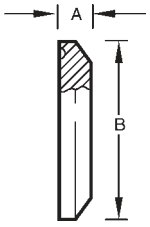
Schedule 10S Long Weld Ferrules - *L14AM7X*



Pipe Size	A	B	C	*316L Stainless Steel* Part Number
1"	1.125	1.097	1.315	***L14AM7X-R100***
1½"	1.125	1.682	1.900	***L14AM7X-R150***
2"	1.125	2.157	2.375	***L14AM7X-R200***
2½"	1.125	2.635	2.875	***L14AM7X-R250***
3"	1.125	3.260	3.500	***L14AM7X-R300***
4"	1.125	4.260	4.500	***L14AM7X-R400***
6"	1.500	6.350	6.625	***L14AM7X-R600***

Pipe Size End Caps

Schedule 5S and 10S Solid End Caps - *16AMV*



Pipe Size	A	B	*316L Stainless Steel* Part Number
1"	.250	1.984	***16AMV-R100***
1½"	.250	2.516	***16AMV-R150***
2"	.250	3.047	***16AMV-R200***
2½"	.250	3.579	***16AMV-R250***
3"	.312	4.125	***16AMV-R300***
4"	.312	5.125	***16AMV-R400***
6"	.437	7.195	***16AMV-R600***

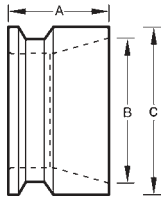
- Specify if you are using a piping system or a tubing system when ordering.

Note: see page 34 for pipe size information

Pipe Size Adapters

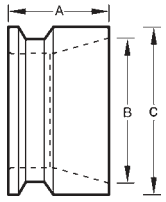
Clamp x Schedule 5S Weld Adapters - *B19MPV*

Pipe Size	A	B	C	Pipe Wall Thickness	*316L Stainless Steel* Part Number
1"	1.125	1.185	1.315	.065	***B19MPV-R100***
1½"	1.125	1.770	1.900	.065	***B19MPV-R150***
2"	1.125	2.245	2.375	.065	***B19MPV-R200***
2½"	1.125	2.709	2.875	.084	***B19MPV-R250***
3"	1.125	3.334	3.500	.084	***B19MPV-R300***
4"	1.125	4.334	4.500	.084	***B19MPV-R400***



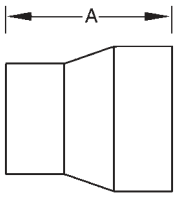
Clamp x Schedule 10S Weld Adapters - *B19MPX*

Pipe Size	A	B	C	Pipe Wall Thickness	*316L Stainless Steel* Part Number
1"	1.125	1.097	1.315	.109	***B19MPX-R100***
1½"	1.125	1.682	1.900	.109	***B19MPX-R150***
2"	1.125	2.157	2.375	.109	***B19MPX-R200***
2½"	1.125	2.635	2.875	.120	***B19MPX-R250***
3"	1.125	3.260	3.500	.120	***B19MPX-R300***
4"	1.125	4.260	4.500	.120	***B19MPX-R400***



Tube O.D. Weld x Schedule 10S Weld Adapters - *B19WX*

Pipe Size	A	Tube Wall Thickness	Pipe Wall Thickness	*316L Stainless Steel* Part Number
1"	2.000	.065	.109	***B19WX-R100***
1½"	2.500	.065	.109	***B19WX-R150***
2"	2.500	.065	.109	***B19WX-R200***
2½"	2.500	.065	.120	***B19WX-R250***
3"	2.500	.065	.120	***B19WX-R300***
4"	3.000	.084	.120	***B19WX-R400***



Other types of schedule 5 and 10 pipe fittings are available call Dixon Sanitary for information

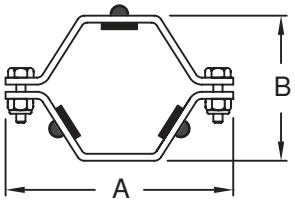
B19W

Note: see page 34 for pipe size information

B

Pipe Size Hangers

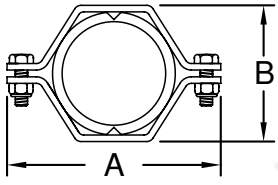
Hex Hanger with Rubber Grommets - *B24RV*[1]



Pipe Size	A	B	*304 Stainless Steel* Part Number
1"	3.625	2.125	***B24RV-G100***
1½"	3.625	2.125	***B24RV-G150***
2"	4.312	2.625	***B24RV-G200***
2½"	4.875	3.125	***B24RV-G250***
3"	5.375	3.625	***B24RV-G300***
4"	6.562	4.750	***B24RV-G400***
6"	9.000	6.625	***B24RV-G600***

[1] for coupler option call Dixon Sanitary

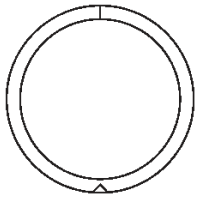
Hex Hanger with Polypropylene Sleeves - *B24PV*[1]



Pipe Size	A	B	*304 Stainless Steel* Part Number
1"	3.625	2.125	***B24PV-G100***
1½"	4.312	2.625	***B24PV-G150***
2"	4.875	3.125	***B24PV-G200***
2½"	4.812	3.125	***B24PV-G250***
3"	6.000	4.250	***B24PV-G300***
4"	7.500	5.625	***B24PV-G400***
6"	9.750	7.375	***B24PV-G600***

[1] for coupler option call Dixon Sanitary

Sleeves - *13PV*



Pipe Size	*Polypropylene* Part Number
1"	***13PV-100***
1½"	***13PV-150***
2"	***13PV-200***
2½"	***13PV-250***
3"	***13PV-300***
4"	***13PV-400***
6"	***13PV-600***

Note: see page 34 for pipe size information

Pipe Size Uni-Hinge Block Hangers

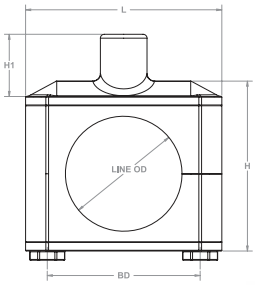
Features:
- support range: 1" - 4"

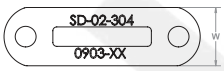
Materials:
- silicone insert: 80 durometer
- intermittent temperatures from -40°F to 320°F
- hardware: 304 and 316 stainless steel

Applications:
- clean rooms and mechanical areas; not limited to: biotech, pharmaceutical, food processing.
- low flow and low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility and instrument lines.

Benefits:
- insulation envelope: reduced OD allows hanger to be buried under the insulation jacket.
- silicone inserts are one piece
- there are no exposed threads or openings in hardware plates
- all plates polished, bolts are cleaned and nuts are lubricated with FDA approved product
- hanger threads match MSS SP-69 rod OD requirements

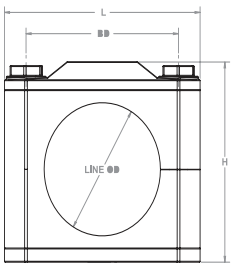
Hang Plate Block Hanger - *B24V-TM*

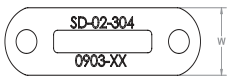




Pipe Size	BD	H	H1	L	Line OD	W	Thread	Part Number
1"	1.94	2.19	0.60	2.49	1.315	0.75	3/8"-16	***B24V-TM-G100***
1½"	2.44	2.69	0.60	2.99	1.900	0.88	3/8"-16	***B24V-TM-G150***
2"	2.81	3.22	1.21	3.36	2.375	0.88	1/2"-13	***B24V-TM-G200***
2½"	3.19	3.66	1.21	3.74	2.875	0.88	1/2"-13	***B24V-TM-G250***
3"	3.92	4.22	1.32	4.48	3.500	1.00	1/2"-13	***B24V-TM-G300***
4"	4.92	5.45	1.39	5.48	4.500	1.00	5/8"-11	***B24V-TM-G400***

Weld Plate Block Hanger - *B24V-WP*

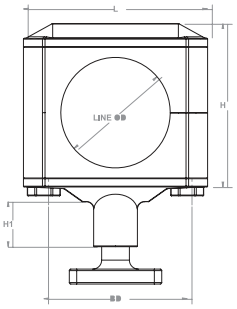




Pipe Size	BD	CL	H	L	Line OD	W	Part Number
1"	1.94	1.03	2.23	2.49	1.315	0.75	***B24V-WP-G100***
1½"	2.44	1.31	2.75	2.99	1.900	0.88	***B24V-WP-G150***
2"	2.81	1.55	3.25	3.36	2.375	0.88	***B24V-WP-G200***
2½"	3.19	1.77	3.68	3.74	2.875	0.88	***B24V-WP-G250***
3"	3.92	2.06	4.25	4.48	3.500	1.00	***B24V-WP-G300***
4"	4.92	2.58	5.27	5.48	4.500	1.00	***B24V-WP-G400***

B

Pipe Size Uni-Hinge Block Hangers

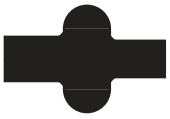


Base Mount Block Hanger - *B24V-BM*

Pipe Size	BD	H	H1	L	Line OD	W	Thread	Part Number
1"	1.94	2.19	0.47	2.49	1.315	0.75	3/8"-16	***B24V-BM-G100***
1½"	2.44	2.69	0.47	2.99	1.900	0.88	3/8"-16	***B24V-BM-G150***
2"	2.81	3.19	0.59	3.36	2.375	0.88	1/2"-13	***B24V-BM-G200***
2½"	3.19	3.63	0.59	3.74	2.875	0.88	1/2"-13	***B24V-BM-G250***

Schedule 5S and 10S Pipe Size Clamp Gaskets

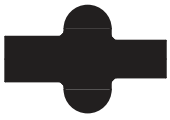
Buna-N Pipe Size Clamp Gaskets - *Black*



Features:
- color code: red dot
- meets 21CFR 177.2600

Pipe Size	Part Number
1"	***40MPV-U100***
1½"	***40MPV-U150***
2"	***40MPV-U200***
2½"	***40MPV-U250***
3"	***40MPV-U300***
4"	***40MPV-U400***
6"	***40MPV-U600***

PTFE Pipe Size Clamp Gaskets



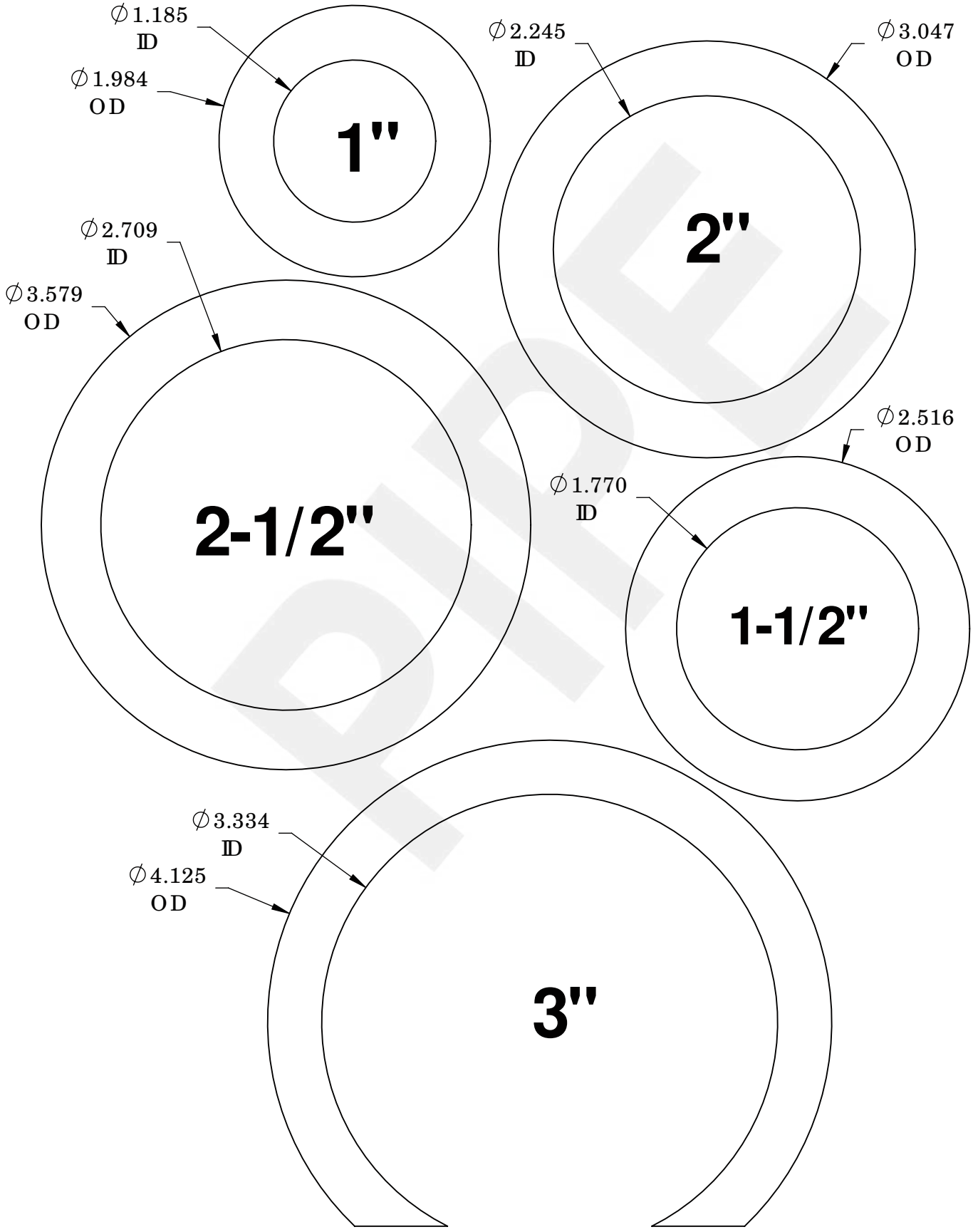
Features:
- color code: no dot
- meets 21CFR 177.1550
- passed U.S.P. Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

Pipe Size	Part Number
1"	***40MPV-G100***
1½"	***40MPV-G150***
2"	***40MPV-G200***
2½"	***40MPV-G250***
3"	***40MPV-G300***
4"	***40MPV-G400***

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

Note: refer to pages 236-238 for compatibility information

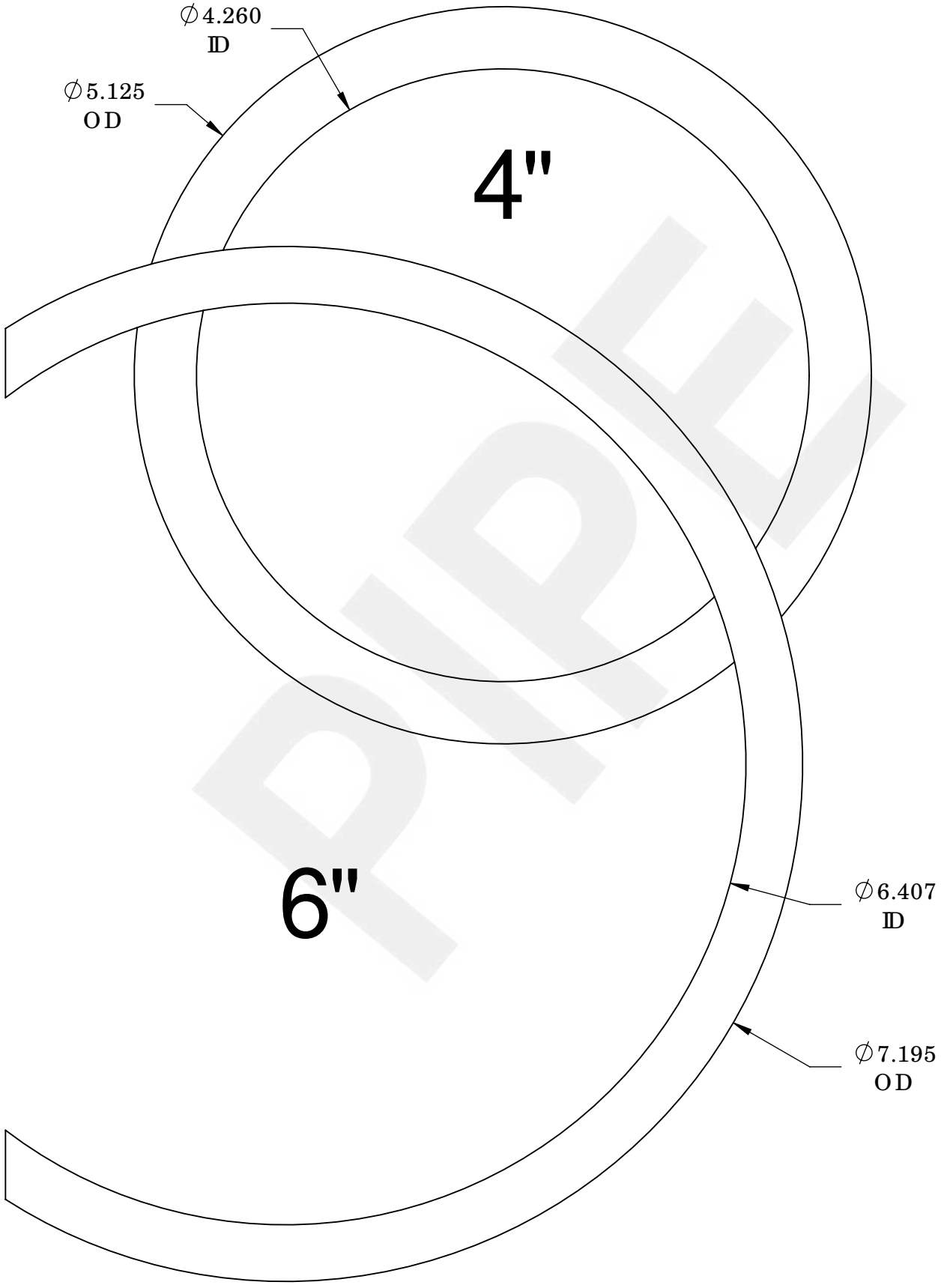
Pipe Gasket Sizing Guide



PDF

B

Pipe Gasket Sizing Guide



Dixon Sanitary Bevel Seat Fittings

A Complete Bevel Seat Connection

Size range:
- 1" - 4" OD tube

Materials:
- G = 304 stainless steel
- R = 316L stainless steel
- other alloys are available

Finish:
- 3A sanitary finish ID and OD

Dimensions of stainless steel tube given in inches

Tube OD	Nominal Wall Thickness (inches)	Gage Number
1"	.065	16
1½"	.065	16
2"	.065	16
2½"	.065	16
3"	.065	16
4"	.083	14

Product Specifications

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Caps 48
Adapters 48
Elbows 49
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Sanitary Breakaway Bevel Seat Version 51
Miscellaneous 52
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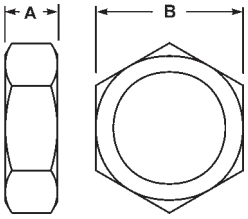
C

Bevel Seat Nuts

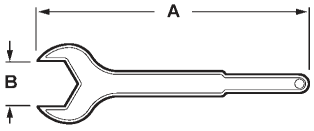


Union Hex Nuts - *13H*

Feature:
- **400 PSI** maximum

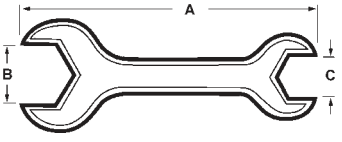
Tube OD	A	B	*304 Stainless Steel (CF8)* Part Number
1"	.906	1.812	***13H-G100***
1½"	.968	2.406	***13H-G150***
2"	1.062	3.000	***13H-G200***
2½"	1.187	3.594	***13H-G250***
3"	1.281	4.188	***13H-G300***
4"	1.500	5.438	***13H-G400***

Bevel Seat Wrenches



Single Side Hex Wrenches - *25H*

Tube OD	A	B	Weight lbs.	*Aluminum* Part Number
1"	10.500	1.812	.64	***25H-100***
1½"	12.000	2.406	.86	***25H-150***
2"	14.000	3.000	1.76	***25H-200***
2½"	16.250	3.594	2.40	***25H-250***
3"	18.500	4.188	3.04	***25H-300***
4"	19.500	5.438	3.62	***25H-400***



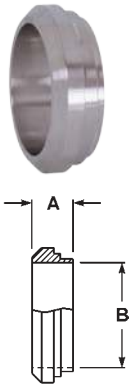
Two Sided Hex Wrenches - *25H*

Tube OD	A	B	C	Weight lbs.	*Aluminum* Part Number
1½" x 1"	12.000	2.406	1.812	1.00	***25H-150100***
2" x 1½"	14.000	3.000	2.406	1.75	***25H-200150***
2½" x 2"	16.500	3.594	3.000	2.80	***25H-250200***
3" x 2"	18.000	4.188	3.000	3.20	***25H-300200***
3" x 2½"	18.000	4.188	3.594	3.70	***25H-300250***

Bevel Seat Ferrules

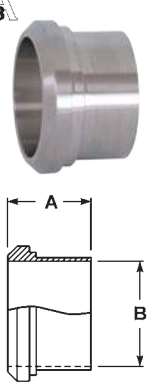
Short Plain Bevel Seat Weld Ferrules - *14PRF*

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.718	.870	***14PRF-G100***	***14PRF-R100***
1½"	.718	1.370	***14PRF-G150***	***14PRF-R150***
2"	.750	1.870	***14PRF-G200***	***14PRF-R200***
2½"	.875	2.370	***14PRF-G250***	***14PRF-R250***
3"	.906	2.870	***14PRF-G300***	***14PRF-R300***
4"	1.031	3.834	***14PRF-G400***	***14PRF-R400***



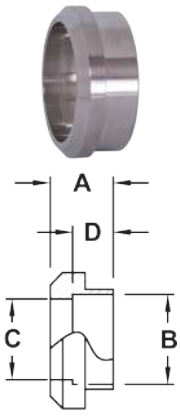
Long Plain Bevel Seat Weld Ferrules - *14A*

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.375	.870	***14A-G100***	***14A-R100***
1½"	1.500	1.370	***14A-G150***	***14A-R150***
2"	1.500	1.870	***14A-G200***	***14A-R200***
2½"	1.750	2.370	***14A-G250***	***14A-R250***
3"	1.750	2.870	***14A-G300***	***14A-R300***
4"	1.750	3.834	***14A-G400***	***14A-R400***



Recessed Plain Bevel Seat Weld Ferrules - *14*

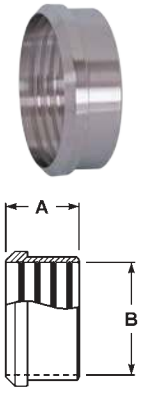
Tube OD	A	B	C	D	*304 Stainless Steel* Part Number
1"	.750	1.000	.870	.500	***14-G100***
1½"	.875	1.500	1.370	.625	***14-G150***
2"	.969	2.000	1.870	.688	***14-G200***
2½"	1.062	2.500	2.370	.750	***14-G250***
3"	1.125	3.000	2.870	.813	***14-G300***
4"	1.250	4.000	3.834	.938	***14-G400***



Recessless Plain Bevel Seat Ferrules for Expanding - *14R*

Tube OD	A	B	*304 Stainless Steel* Part Number
1"	.750	1.000	***14R-G100***
1½"	1.125	1.500	***14R-G150***
2"	1.312	2.000	***14R-G200***
2½"	1.375	2.500	***14R-G250***
3"	1.437	3.000	***14R-G300***
4"	1.500	4.000	***14R-G400***

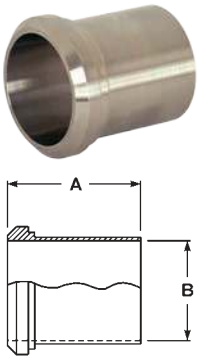
* Meets 3-A Standard Number 63-03 when used to modify or repair existing on-site farm milk handling systems.



C

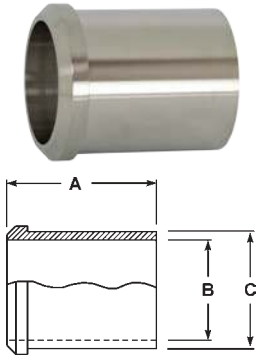
Bevel Seat Ferrules

Light Wall Tank Plain Bevel Seat Ferrules - *14WL*



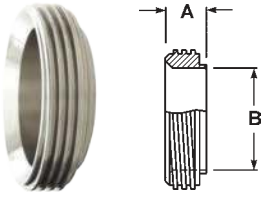
Tube OD	A	B	*304 Stainless Steel* Part Number
1"	2.000	.870	***14WL-G100***
1½"	2.250	1.370	***14WL-G150***
2"	2.500	1.870	***14WL-G200***
2½"	2.750	2.370	***14WL-G250***
3"	3.000	2.870	***14WL-G300***
4"	4.000	3.834	***14WL-G400***

Heavy Wall Tank Plain Bevel Seat Ferrules - *14W*



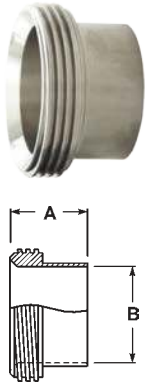
Tube OD	A	B	C	*304 Stainless Steel* Part Number
1"	2.375	.870	1.160	***14W-G100***
1½"	2.531	1.370	1.676	***14W-G150***
2"	2.781	1.870	2.192	***14W-G200***
2½"	3.062	2.370	2.708	***14W-G250***
3"	3.531	2.870	3.224	***14W-G300***
4"	4.312	3.834	4.256	***14W-G400***

Short Threaded Bevel Seat Weld Ferrules - *15TRF*



Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.718	.870	***15TRF-G100***	***15TRF-R100***
1½"	.718	1.370	***15TRF-G150***	***15TRF-R150***
2"	.750	1.870	***15TRF-G200***	***15TRF-R200***
2½"	.875	2.370	***15TRF-G250***	***15TRF-R250***
3"	.906	2.870	***15TRF-G300***	***15TRF-R300***
4"	1.031	3.834	***15TRF-G400***	***15TRF-R400***

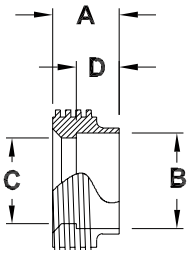
Long Threaded Bevel Seat Weld Ferrules - *15A*



Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.375	.870	***15A-G100***	***15A-R100***
1½"	1.500	1.370	***15A-G150***	***15A-R150***
2"	1.500	1.870	***15A-G200***	***15A-R200***
2½"	1.750	2.370	***15A-G250***	***15A-R250***
3"	1.750	2.870	***15A-G300***	***15A-R300***
4"	1.750	3.834	***15A-G400***	***15A-R400***

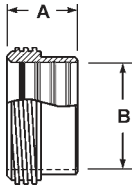
Bevel Seat Ferrules

Recessed Threaded Bevel Seat Ferrules - *15*



Tube OD	A	B	C	D	*304 Stainless Steel* Part Number
1"	.812	1.000	.870	.500	***15-G100***
1½"	.875	1.500	1.370	.625	***15-G150***
2"	1.031	2.000	1.870	.687	***15-G200***
2½"	1.125	2.500	2.370	.750	***15-G250***
3"	1.250	3.000	2.870	.812	***15-G300***
4"	1.375	4.000	3.834	.937	***15-G400***

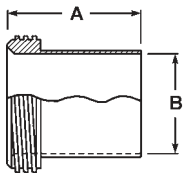
Recessless Threaded Bevel Seat Ferrules for Expanding - *15R* A*



Tube OD	A	B	*304 Stainless Steel* Part Number
1"	.812	1.000	***15R-G100***
1½"	1.125	1.500	***15R-G150***
2"	1.375	2.000	***15R-G200***
2½"	1.500	2.500	***15R-G250***
3"	1.675	3.000	***15R-G300***
4"	1.675	4.000	***15R-G400***

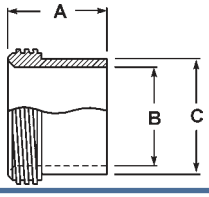
* Meets 3-A Standard Number 63-03 when used to modify or repair existing on-site farm milk handling systems.

Light Wall Tank Threaded Bevel Seat Ferrules - *15WL* A



Tube OD	A	B	*304 Stainless Steel* Part Number
1"	2.000	.870	***15WL-G100***
1½"	2.250	1.370	***15WL-G150***
2"	2.500	1.870	***15WL-G200***
2½"	2.750	2.370	***15WL-G250***
3"	3.000	2.870	***15WL-G300***
4"	4.000	3.834	***15WL-G400***

Heavy Wall Tank Threaded Bevel Seat Ferrules - *15W* A

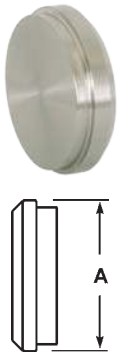


Tube OD	A	B	C	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.500	.870	1.160	***15W-G100***	***15W-R100***
1½"	1.625	1.370	1.676	***15W-G150***	***15W-R150***
2"	1.750	1.870	2.192	***15W-G200***	***15W-R200***
2½"	1.750	2.370	2.708	***15W-G250***	***15W-R250***
3"	1.812	2.870	3.224	***15W-G300***	***15W-R300***
4"	2.125	3.834	4.256	***15W-G400***	***15W-R400***

C

Bevel Seat End Caps

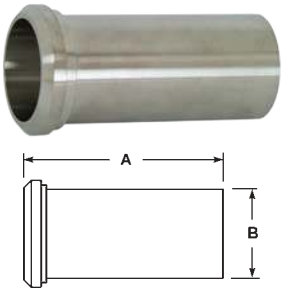
Plain Bevel Seat Solid End Caps - *16A*



Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.312	***16A-G100***	***16A-R100***
1½"	1.843	***16A-G150***	***16A-R150***
2"	2.375	***16A-G200***	***16A-R200***
2½"	2.906	***16A-G250***	***16A-R250***
3"	3.437	***16A-G300***	***16A-R300***
4"	4.500	***16A-G400***	***16A-R400***

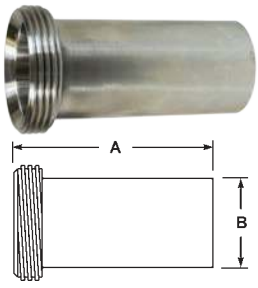
Bevel Seat Adapters

Plain Bevel Seat Tygon® Hose Adapters - *14AHT*



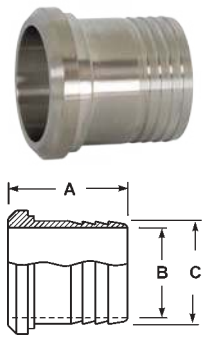
Tube OD	A	B	*304 Stainless Steel* Part Number
1"	4.688	1.000	***14AHT-G100***
1½"	4.719	1.500	***14AHT-G150***
2"	4.719	2.000	***14AHT-G200***
2½"	4.844	2.500	***14AHT-G250***
3"	4.906	3.000	***14AHT-G300***
4"	5.218	4.000	***14AHT-G400***

Threaded Bevel Seat Tygon® Hose Adapters - *15AHT*



Tube OD	A	B	*304 Stainless Steel* Part Number
1"	4.500	1.000	***15AHT-G100***
1½"	4.500	1.500	***15AHT-G150***
2"	4.500	2.000	***15AHT-G200***
2½"	4.500	2.500	***15AHT-G250***
3"	4.500	3.000	***15AHT-G300***
4"	5.000	4.000	***15AHT-G400***

Plain Bevel Seat Rubber Hose Adapters - *14AHR*



Tube OD	A	B	C	*304 Stainless Steel* Part Number
1"	1.687	.870	1.000	***14AHR-G100***
1½"	1.687	1.370	1.500	***14AHR-G150***
2"	2.312	1.870	2.000	***14AHR-G200***
2½"	2.343	2.370	2.500	***14AHR-G250***
3"	3.500	2.870	3.000	***14AHR-G300***
4"	4.000	3.834	4.000	***14AHR-G400***

Other types of bevel seat adapters are available call Dixon Sanitary for information

15AHR

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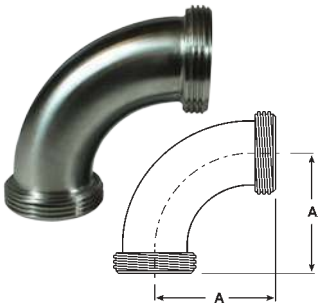
14-18

Bevel Seat Elbows

Threaded Bevel Seat x Threaded Bevel Seat 90° Elbows - *B2C*

Tube OD	A	*304 Stainless Steel* Part Number
1"	2.218	***B2C-G100***
1½"	2.968	***B2C-G150***
2"	3.750	***B2C-G200***
2½"	4.625	***B2C-G250***
3"	5.406	***B2C-G300***
4"	7.031	***B2C-G400***

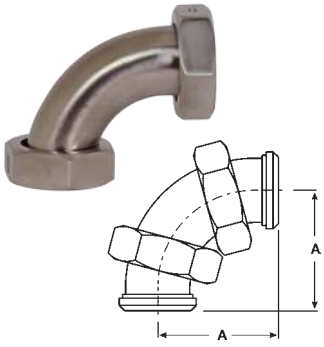


Threaded Bevel Seat x Plain Bevel Seat with Hex Nut 90° Elbows - *B2F*

Tube OD	A	*304 Stainless Steel* Part Number
1"	2.218	***B2F-G100***
1½"	2.968	***B2F-G150***
2"	3.750	***B2F-G200***
2½"	4.625	***B2F-G250***
3"	5.406	***B2F-G300***
4"	7.031	***B2F-G400***

Plain Bevel Seat x Plain Bevel Seat with Hex Nut 90° Elbows - *B2E*

Tube OD	A	*304 Stainless Steel* Part Number
1"	2.218	***B2E-G100***
1½"	2.968	***B2E-G150***
2"	3.750	***B2E-G200***
2½"	4.625	***B2E-G250***
3"	5.406	***B2E-G300***
4"	7.031	***B2E-G400***



Threaded Bevel Seat x Plain Bevel Seat with Hex Nut 45° Elbows - *B2P*

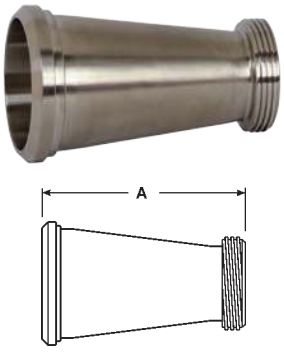
Tube OD	A	*304 Stainless Steel* Part Number
1"	1.343	***B2P-G100***
1½"	1.655	***B2P-G150***
2"	2.000	***B2P-G200***
2½"	2.437	***B2P-G250***
3"	2.781	***B2P-G300***
4"	3.531	***B2P-G400***

Other types of bevel seat elbows are available call Dixon Sanitary for information

B2K

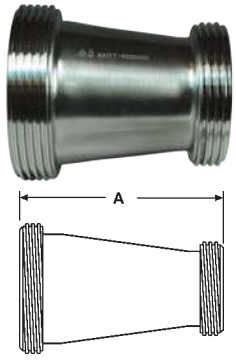
Bevel Seat Reducers

3A Plain Bevel Seat x Threaded Bevel Seat Concentric Reducers - *B3115F*



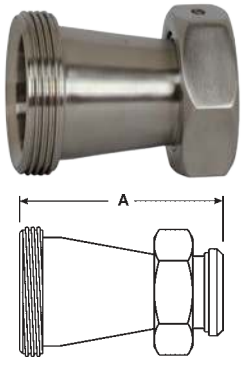
Tube OD	A	*304 Stainless Steel* Part Number
1½" x 1"	3.436	***B3115F-G150100***
2" x 1½"	3.468	***B3115F-G200150***
2½" x 2"	3.625	***B3115F-G250200***
3" x 2"	5.656	***B3115F-G300200***
3" x 2½"	3.781	***B3115F-G300250***
4" x 3"	5.937	***B3115F-G400300***

3A Threaded Bevel Seat x Threaded Bevel Seat Concentric Reducers - *B31TT*



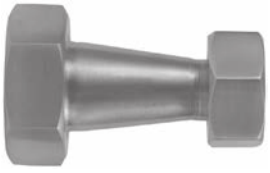
Tube OD	A	*304 Stainless Steel* Part Number
1½" x 1"	3.436	***B31TT-G150100***
2" x 1½"	3.468	***B31TT-G200150***
2½" x 2"	3.625	***B31TT-G250200***
3" x 2"	5.656	***B31TT-G300200***
3" x 2½"	3.781	***B31TT-G300250***
4" x 3"	5.937	***B31TT-G400300***

3A Threaded Bevel Seat x Plain Bevel Seat with Hex Nut Concentric Reducers - *B31TP*



Tube OD	A	*304 Stainless Steel* Part Number
1½" x 1"	3.436	***B31TP-G150100***
2" x 1½"	3.468	***B31TP-G200150***
2½" x 2"	3.625	***B31TP-G250200***
3" x 2"	5.656	***B31TP-G300200***
3" x 2½"	3.781	***B31TP-G300250***
4" x 3"	5.937	***B31TP-G400300***

Other types of bevel seat reducers are available call Dixon Sanitary for information



B3114F

B3215F

B3214F

B32-TT

B32-TP

Sanitary Breakaway Bevel Seat Version

Application:
- Minimizes spillage and damage associated with pull away and drive away incidents

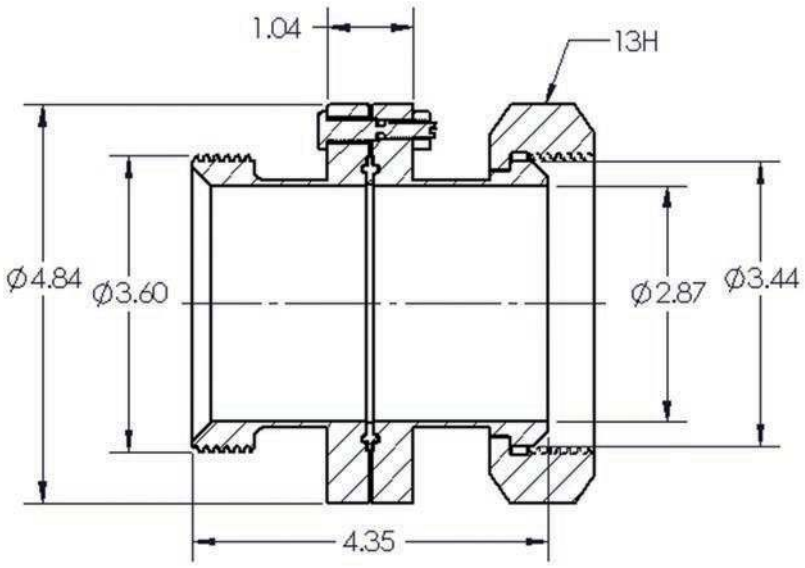
Features:
- designed to be installed between a fixed point and a hose
- coupling breaks away with an excessive load
- EPDM standard clamp gasket, optional material available
- working pressure: **350 PSI @ 70°F**
- 13kN break load bolts standard, other break loads available
- 316 stainless steel polished to standard <32R_a, 3A finish

Bevel Seat End

Part Number

SBC-E300TP13

Dimensions



Miscellaneous Bevel Seat Configurations

Other types of bevel seat configurations are available call Dixon Sanitary for information

C

B7

B7A

B7B

B9

B9A

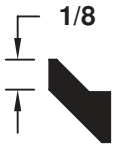
B28A

B28B

Bevel Seat Gaskets

Buna-N Bevel Seat Gaskets - *Black*

Size	Part Number
1"	***40BS-O100***
1½"	***40BS-O150***
2"	***40BS-O200***
2½"	***40BS-O250***
3"	***40BS-O300***
4"	***40BS-O400***



Features:
- color code: red dot
- meets 21CFR 177.2600

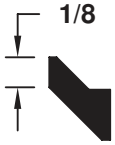
Buna-N Flat Bevel Seat Gaskets - *Black*

Size	Part Number
1"	***40BS-F100***
1½"	***40BS-F150***
2"	***40BS-F200***
2½"	***40BS-F250***
3"	***40BS-F300***
4"	***40BS-F400***

Feature:
- color code: red dot
- meets 21CFR 177.2600

EPDM Bevel Seat Gaskets - *Black*

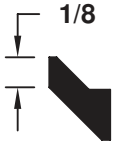
Size	Part Number
1"	***40BS-E100***
1½"	***40BS-E150***
2"	***40BS-E200***
2½"	***40BS-E250***
3"	***40BS-E300***
4"	***40BS-E400***



Features:
- color code: three green dots
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

FKM Bevel Seat Gaskets - *Black*

Size	Part Number
1"	***40BS-Y100***
1½"	***40BS-Y150***
2"	***40BS-Y200***
2½"	***40BS-Y250***
3"	***40BS-Y300***
4"	***40BS-Y400***



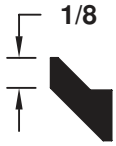
Features:
- color code: one white dot and one yellow dot
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

Note: refer to pages 236-238 for compatibility information

Bevel Seat Gaskets

C

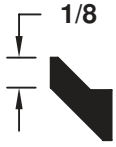
Silicone Bevel Seat Gaskets - *White*



Features:
- color code: no dot
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

Size	Part Number
1"	***40BS-X100***
1½"	***40BS-X150***
2"	***40BS-X200***
2½"	***40BS-X250***
3"	***40BS-X300***
4"	***40BS-X400***

PTFE Bevel Seat Gaskets - *White*

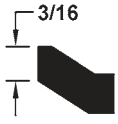


Features:
- color code: no dot
- meets 21CFR 177.1550
- passed U.S.P. Class VI Cytotoxicity testing

Size	Part Number
1"	***40BS-S100***
1½"	***40BS-S150***
2"	***40BS-S200***
2½"	***40BS-S250***
3"	***40BS-S300***
4"	***40BS-S400***

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

Heavy PTFE Bevel Seat Gaskets - *White*



Features:
- color code: no dot
- meets 21CFR 177.1550
- passed U.S.P. Class VI Cytotoxicity testing

Size	Part Number
1"	***40BS-H100***
1½"	***40BS-H150***
2"	***40BS-H200***
2½"	***40BS-H250***
3"	***40BS-H300***
4"	***40BS-H400***

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

Note: refer to pages 236-238 for compatibility information

Dixon Sanitary John Perry Fittings

3A 63-03 621

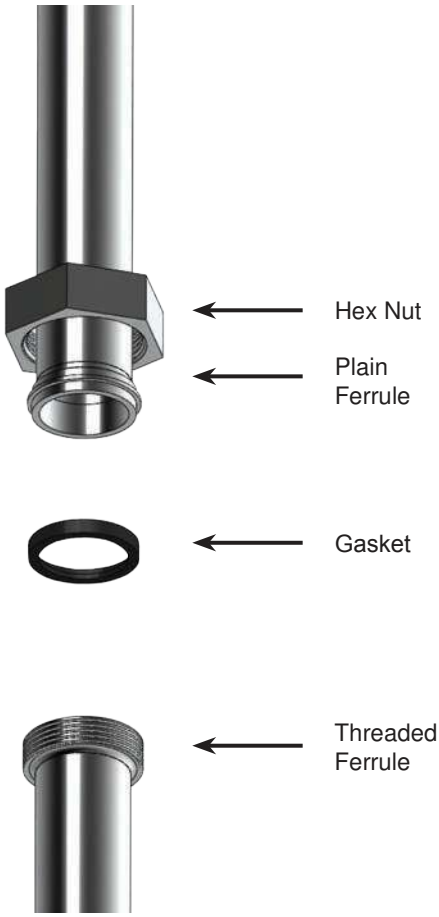
A Complete John Perry Connection

Size range:
- 1" - 4" OD tube

Materials:
- G = 304 stainless steel
- R = 316L stainless steel
- other alloys are available

Finish:
- 3A sanitary finish ID and OD

Product Specifications



Dimensions of stainless steel tube given in inches

Tube OD	Nominal Wall Thickness (inches)	Gage Number
1"	.065	16
1½"	.065	16
2"	.065	16
2½"	.065	16
3"	.065	16
4"	.083	14

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Ferrules 57
Caps 58
Miscellaneous 58
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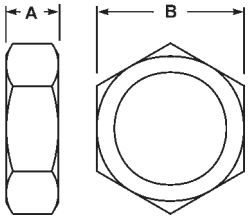
D

John Perry Nuts

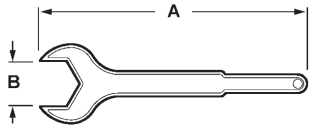


Union Hex Nuts - *13H*

Feature:
- **400 PSI** maximum

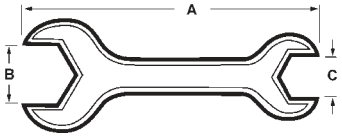
Tube OD	A	B	*304 Stainless Steel (CF8)* Part Number
1"	.906	1.812	***13H-G100***
1½"	.968	2.406	***13H-G150***
2"	1.062	3.000	***13H-G200***
2½"	1.187	3.594	***13H-G250***
3"	1.281	4.188	***13H-G300***
4"	1.500	5.438	***13H-G400***

John Perry Wrenches



Single Side Hex Wrenches - *25H*

Tube OD	A	B	Weight lbs.	*Aluminum* Part Number
1"	10.500	1.812	.64	***25H-100***
1½"	12.000	2.406	.86	***25H-150***
2"	14.000	3.000	1.76	***25H-200***
2½"	16.250	3.594	2.40	***25H-250***
3"	18.500	4.188	3.04	***25H-300***
4"	19.500	5.438	3.62	***25H-400***



Two Sided Hex Wrenches - *25H*

Tube OD	A	B	C	Weight lbs.	*Aluminum* Part Number
1½" x 1"	12.000	2.406	1.812	1.00	***25H-150100***
2" x 1½"	14.000	3.000	2.406	1.75	***25H-200150***
2½" x 2"	16.500	3.594	3.000	2.80	***25H-250200***
3" x 2"	18.000	4.188	3.000	3.20	***25H-300200***
3" x 2½"	18.000	4.188	3.594	3.70	***25H-300250***

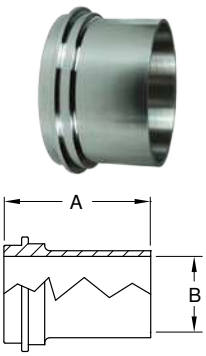
John Perry Ferrules

John Perry Short Plain Weld Ferrules - *14PRFJP*

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.719	.870	***14PRFJP-G100***	***14PRFJP-R100***
1½"	.719	1.370	***14PRFJP-G150***	***14PRFJP-R150***
2"	.750	1.870	***14PRFJP-G200***	***14PRFJP-R200***
2½"	.875	2.370	***14PRFJP-G250***	***14PRFJP-R250***
3"	.906	2.870	***14PRFJP-G300***	***14PRFJP-R300***
4"	1.031	3.834	***14PRFJP-G400***	***14PRFJP-R400***

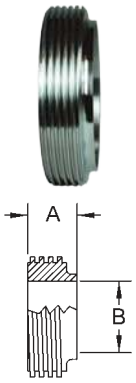
John Perry Long Plain Weld Ferrules - *L14AJP*

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.375	.870	***L14AJP-G100***	***L14AJP-R100***
1½"	1.500	1.370	***L14AJP-G150***	***L14AJP-R150***
2"	1.500	1.870	***L14AJP-G200***	***L14AJP-R200***
2½"	1.750	2.370	***L14AJP-G250***	***L14AJP-R250***
3"	1.750	2.870	***L14AJP-G300***	***L14AJP-R300***
4"	1.750	3.834	***L14AJP-G400***	***L14AJP-R400***



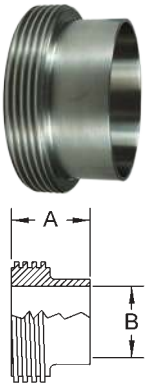
John Perry Threaded Short Weld Ferrules - *15TRFJP*

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.719	.870	***15TRFJP-G100***	***15TRFJP-R100***
1½"	.719	1.370	***15TRFJP-G150***	***15TRFJP-R150***
2"	.750	1.870	***15TRFJP-G200***	***15TRFJP-R200***
2½"	.875	2.370	***15TRFJP-G250***	***15TRFJP-R250***
3"	.906	2.870	***15TRFJP-G300***	***15TRFJP-R300***
4"	1.031	3.834	***15TRFJP-G400***	***15TRFJP-R400***

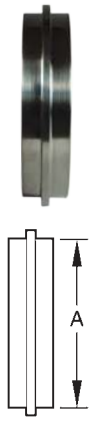


John Perry Threaded Long Weld Ferrules - *L15AJP*

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.375	.870	***L15AJP-G100***	***L15AJP-R100***
1½"	1.500	1.370	***L15AJP-G150***	***L15AJP-R150***
2"	1.500	1.870	***L15AJP-G200***	***L15AJP-R200***
2½"	1.750	2.370	***L15AJP-G250***	***L15AJP-R250***
3"	1.750	2.870	***L15AJP-G300***	***L15AJP-R300***
4"	1.750	3.834	***L15AJP-G400***	***L15AJP-R400***



John Perry End Caps



John Perry Solid End Caps - *16AJP*

Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.125	***16AJP-G100***	***16AJP-R100***
1½"	1.656	***16AJP-G150***	***16AJP-R150***
2"	2.187	***16AJP-G200***	***16AJP-R200***
2½"	2.656	***16AJP-G250***	***16AJP-R250***
3"	3.187	***16AJP-G300***	***16AJP-R300***
4"	4.187	***16AJP-G400***	***16AJP-R400***

Miscellaneous John Perry Configurations

Other types of John Perry configurations are available call Dixon Sanitary for information

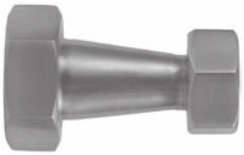
B2CJP

B2PJP

B2EJP

B7JP

B3115FJP


B3114FJP

B31TPJP

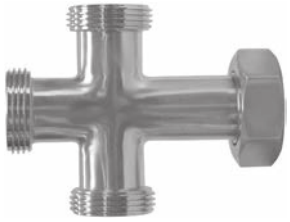
B7AJP

B3215FJP

B3214FJP

B32TPJP

B9JP


B9AJP

B28BJP

B28AJP

John Perry Gaskets

Buna 80 Duro John Perry Gaskets

Size	Part Number
1"	***40JP-U100***
1½"	***40JP-U150***
2"	***40JP-U200***
2½"	***40JP-U250***
3"	***40JP-U300***
4"	***40JP-U400***

Features:
- color code: one red dot
- meets 21CFR 177.2600

EPDM John Perry Gaskets

Size	Part Number
1"	***40JP-E100***
1½"	***40JP-E150***
2"	***40JP-E200***
2½"	***40JP-E250***
3"	***40JP-E300***
4"	***40JP-E400***

Features:
- color code: three green dots
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

FKM John Perry Gaskets

Size	Part Number
1"	***40JP-SFY100***
1½"	***40JP-SFY150***
2"	***40JP-SFY200***
2½"	***40JP-SFY250***
3"	***40JP-SFY300***
4"	***40JP-SFY400***

Features:
- color code: one white dot and one yellow dot
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

Virgin PTFE John Perry Gaskets

Size	Part Number
1"	***40JP-G100***
1½"	***40JP-G150***
2"	***40JP-G200***
2½"	***40JP-G250***
3"	***40JP-G300***
4"	***40JP-G400***

Features:
- color code: no dot
- meets 21CFR 177.1550
- passed U.S.P. Class VI Cytotoxicity testing

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

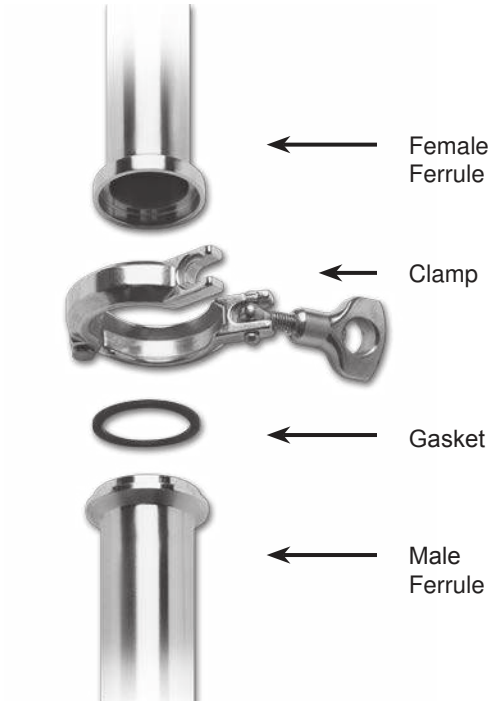
Note: refer to pages 236-238 for compatibility information

A3 63-03 621

Dixon Sanitary I-line & Q-Line Fittings

E

A Complete I-line Connection



Product Specifications

Size range:
- 1" - 8" OD tube I-line*
- 1" - 4" OD tube Q-Line

* stock items to 4", 6" & 8" items are special order

Materials:
- G = 304 stainless steel
- R = 316L stainless steel
- other alloys are available

Finish:
- 3A sanitary finish ID and OD

Dimensions of stainless steel tube given in inches

Tube OD	Nominal Wall Thickness (inches)	Gage Number
1"	.065	16
1½"	.065	16
2"	.065	16
2½"	.065	16
3"	.065	16
4"	.083	14
6"	.109	12
8"	.120	10

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Q-Line Gaskets..... 69

I-line/Q-Line Clamps

Heavy Duty Clamps - *13ILH*

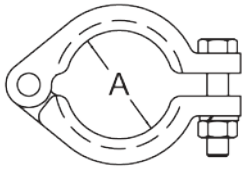
- Q-Line service pressure rating for all sizes: **150 PSI @ 70°F** and **125 PSI @ 250°F**

Tube OD	Service Pressure Rating @ 70°F[1]	Service Pressure Rating @ 250°F[1]	A	Part Number
1"- 1½"	700	250	2.122	***13ILH100-150***
2"	450	250	2.654	***13ILH200***
2½"	450	200	3.185	***13ILH250***
3"	350	150	3.717	***13ILH300***
4"	200	125	4.820	***13ILH400***
6"	150	100	7.689	***13ILH600***
8"	125	75	9.689	***13ILH800***

[1] wing nut tightened to 25 in. lb. of torque

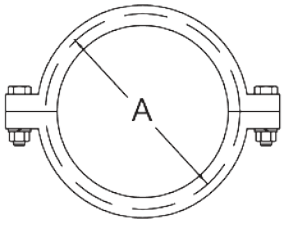
Bolted Clamps - *13ILB*

1" - 4"



Tube OD	Service Pressure Rating @ 70°F[1]	Service Pressure Rating @ 250°F[1]	A	Part Number
1"- 1½"	1220	1100	2.122	***13ILB100-150***
2"	900	830	2.654	***13ILB200***
2½"	720	660	3.185	***13ILB250***
3"	600	550	3.717	***13ILB300***
4"	570	525	4.820	***13ILB400***

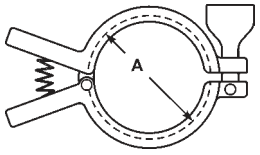
[1] nut tightened to 20 ft. lb. of torque



Tube OD	Service Pressure Rating @ 70°F[1]	Service Pressure Rating @ 250°F[1]	A	Part Number
6"	300	200	7.689	***13ILB600***
8"	250	150	9.689	***13ILB800***

[1] nut tightened to 20 ft. lb. of torque

Squeeze Clamps - *13IL-Q*

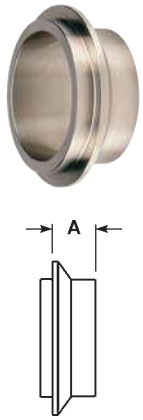


Tube OD	Service Pressure Rating @ 70°F[1]	Service Pressure Rating @ 250°F[1]	A	Part Number
1"- 1½"	700	250	2.122	***13IL-Q100150***
2"	450	250	2.654	***13IL-Q200***

[1] wing nut tightened to 25 in. lb. of torque

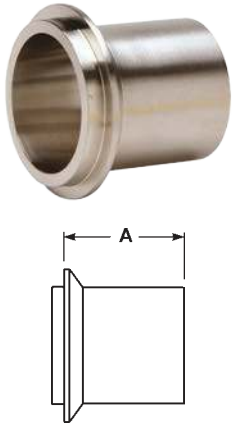
I-line/Q-Line Ferrules

Male I-Line Short Weld Ferrules - *14WI*



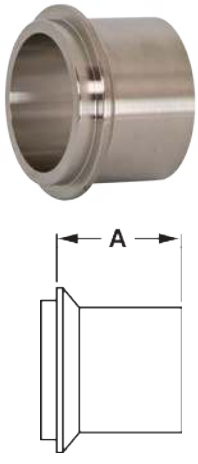
Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.600	***14WI-G100***	***14WI-R100***
1½"	.765	***14WI-G150***	***14WI-R150***
2"	.790	***14WI-G200***	***14WI-R200***
2½"	.848	***14WI-G250***	***14WI-R250***
3"	.906	***14WI-G300***	***14WI-R300***
4"	1.031	***14WI-G400***	***14WI-R400***
6"	.940	***---***	***14WI-R600***
8"	.940	***---***	***14WI-R800***

Male I-Line Long Weld Ferrules - *14WLI*



Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.562	***14WLI-G100***	***14WLI-R100***
1½"	1.843	***14WLI-G150***	***14WLI-R150***
2"	2.062	***14WLI-G200***	***14WLI-R200***
2½"	2.188	***14WLI-G250***	***14WLI-R250***
3"	2.375	***14WLI-G300***	***14WLI-R300***
4"	2.688	***14WLI-G400***	***14WLI-R400***
6"	2.688	***---***	***14WLI-R600***

Male I-Line Heavy Wall Tank Weld Ferrules - *14WHI*

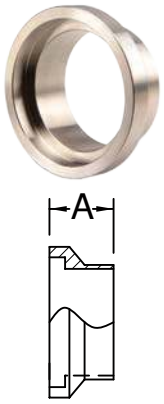


Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.312	***14WHI-G100***	***14WHI-R100***
1½"	1.457	***14WHI-G150***	***14WHI-R150***
2"	1.500	***14WHI-G200***	***14WHI-R200***
2½"	1.437	***14WHI-G250***	***14WHI-R250***
3"	1.500	***14WHI-G300***	***14WHI-R300***
4"	1.812	***14WHI-G400***	***14WHI-R400***

I-line/Q-Line Ferrules

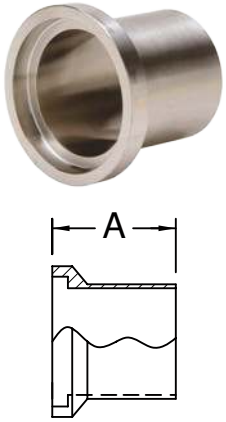
Female I-Line Short Weld Ferrules - *15WI*

Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.785	***15WI-G100***	***15WI-R100***
1½"	.950	***15WI-G150***	***15WI-R150***
2"	1.040	***15WI-G200***	***15WI-R200***
2½"	1.160	***15WI-G250***	***15WI-R250***
3"	1.220	***15WI-G300***	***15WI-R300***
4"	1.350	***15WI-G400***	***15WI-R400***
6"	1.125	---	***15WI-R600***
8"	1.125	---	***15WI-R800***



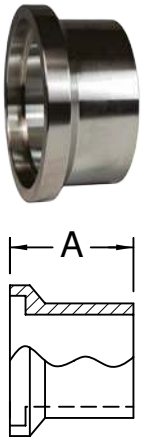
Female I-Line Long Weld Ferrules - *15WLI*

Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.750	***15WLI-G100***	***15WLI-R100***
1½"	2.031	***15WLI-G150***	***15WLI-R150***
2"	2.312	***15WLI-G200***	***15WLI-R200***
2½"	2.500	***15WLI-G250***	***15WLI-R250***
3"	2.688	***15WLI-G300***	***15WLI-R300***
4"	3.000	***15WLI-G400***	***15WLI-R400***
6"	3.000	---	***15WLI-R600***



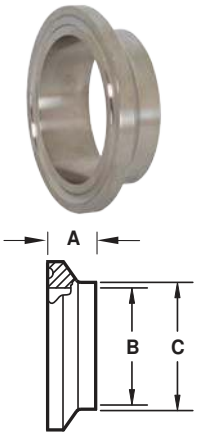
Female I-Line Heavy Wall Tank Weld Ferrules - *15WHI*

Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.500	***15WHI-G100***	***15WHI-R100***
1½"	1.625	***15WHI-G150***	***15WHI-R150***
2"	1.750	***15WHI-G200***	***15WHI-R200***
2½"	1.750	***15WHI-G250***	***15WHI-R250***
3"	1.812	***15WHI-G300***	***15WHI-R300***
4"	2.125	***15WHI-G400***	***15WHI-R400***



E

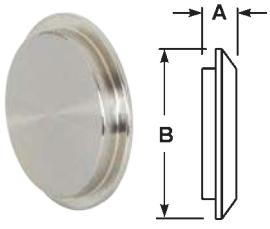
I-line/Q-Line Ferrules



Q-Line Weld Ferrules - *14WQ*

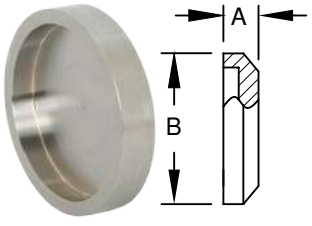
Tube OD	A	B	C	*304 Stainless Steel* Part Number
1"	.531	.870	1.000	***14WQ-G100***
1½"	.563	1.370	1.500	***14WQ-G150***
2"	.813	1.870	2.000	***14WQ-G200***
2½"	.938	2.370	2.500	***14WQ-G250***
3"	.938	2.870	3.000	***14WQ-G300***
4"	1.000	3.834	4.000	***14WQ-G400***

I-line/Q-Line End Caps



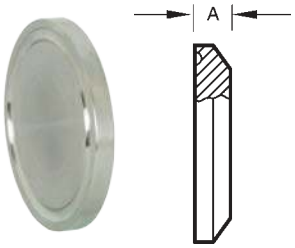
Male I-Line Solid End Caps - *16AI-14I*

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.500	1.985	***16AI-14I100***	***16AI-14I100R***
1½"	.500	1.985	***16AI-14I150***	***16AI-14I150R***
2"	.562	2.640	***16AI-14I200***	***16AI-14I200R***
2½"	.750	3.307	***16AI-14I250***	***16AI-14I250R***
3"	.750	3.870	***16AI-14I300***	***16AI-14I300R***
4"	.750	4.870	***16AI-14I400***	***16AI-14I400R***
6"	.750	7.495	***16AI-14I600***	***16AI-14I600R***
8"	.880	9.495	***---***	***16AI-14I800R***



Female I-Line Solid End Caps - *16AI-15I*

Tube OD	A	B	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.500	1.985	***16AI-15I100***	***16AI-15I100R***
1½"	.500	1.985	***16AI-15I150***	***16AI-15I150R***
2"	.562	2.640	***16AI-15I200***	***16AI-15I200R***
2½"	.750	3.307	***16AI-15I250***	***16AI-15I250R***
3"	.750	3.870	***16AI-15I300***	***16AI-15I300R***
4"	.750	4.870	***16AI-15I400***	***16AI-15I400R***
6"	.750	7.495	***16AI-15I600***	***16AI-15I600R***
8"	.880	9.495	***---***	***16AI-15I800R***



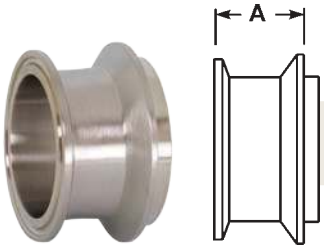
Q-Line Solid End Caps - *16AQ*

Tube OD	A	*304 Stainless Steel* Part Number
1"	.313	***16AQ-G100***
1½"	.313	***16AQ-G150***
2"	.438	***16AQ-G200***
2½"	.500	***16AQ-G250***
3"	.500	***16AQ-G300***
4"	.625	***16AQ-G400***

I-line/Q-Line Adapters

Male I-Line x Clamp Adapters - *17-14I-14MP* A3

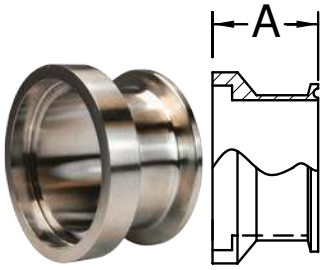
Tube OD	A	*304 Stainless Steel* Part Number
1"	1.093	***17-14I-14MPG100***
1½"	1.265	***17-14I-14MPG150***
2"	1.290	***17-14I-14MPG200***
2½"	1.312	***17-14I-14MPG250***
3"	1.406	***17-14I-14MPG300***
4"	1.656	***17-14I-14MPG400***



E

Female I-Line x Clamp Adapters - *17-15I-14MP* A3

Tube OD	A	*304 Stainless Steel* Part Number
1"	1.281	***17-15I-14MPG100***
1½"	1.450	***17-15I-14MPG150***
2"	1.540	***17-15I-14MPG200***
2½"	1.625	***17-15I-14MPG250***
3"	1.718	***17-15I-14MPG300***
4"	1.968	***17-15I-14MPG400***



Other types of I-line adapters are available call Dixon Sanitary for information

17-14I-15

17-14I-14

17-14I-14I

14HRI

17-15I-15

17-15I-14

17-15I-15I

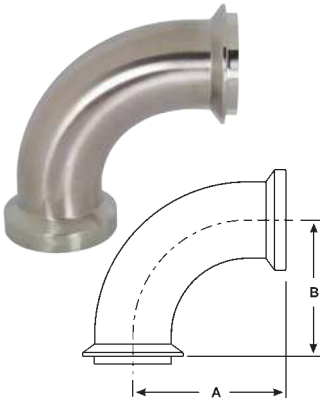
15HRI

17-14I-15I

I-line/Q-Line Elbows

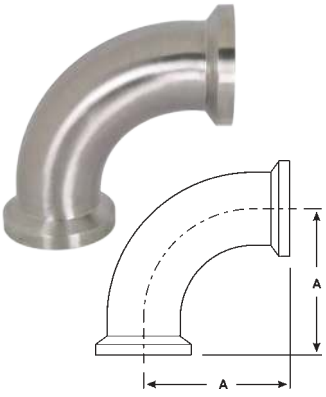
E

90° Female I-Line x Male I-Line Elbows - *B2FI*



Tube OD	A	B	*304 Stainless Steel* Part Number
1"	2.281	2.093	***B2FI-G100***
1½"	3.188	3.000	***B2FI-G150***
2"	4.031	3.781	***B2FI-G200***
2½"	4.906	4.593	***B2FI-G250***
3"	5.718	5.406	***B2FI-G300***
4"	7.344	7.031	***B2FI-G400***

90° Female I-Line Elbows - *B2CI*



Tube OD	A	*304 Stainless Steel* Part Number
1"	2.281	***B2CI-G100***
1½"	3.188	***B2CI-G150***
2"	4.031	***B2CI-G200***
2½"	4.906	***B2CI-G250***
3"	5.718	***B2CI-G300***
4"	7.344	***B2CI-G400***

90° Male I-Line Elbows - *B2EI*

Tube OD	A	*304 Stainless Steel* Part Number
1"	2.093	***B2EI-G100***
1½"	3.000	***B2EI-G150***
2"	3.781	***B2EI-G200***
2½"	4.593	***B2EI-G250***
3"	5.406	***B2EI-G300***
4"	7.031	***B2EI-G400***

Other types of I-line elbows are available call Dixon Sanitary for information

B2HI

B2PI

B2KI

Miscellaneous I-line/Q-Line Configurations

Other types of I-line configurations are available call Dixon Sanitary for information

28BI

28AI

B9I

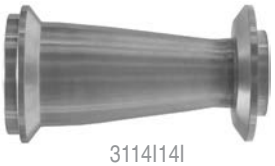
B7HI

B7I

B7EI

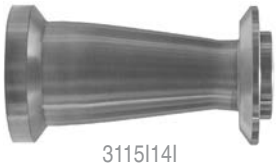
B7AI

B7BI



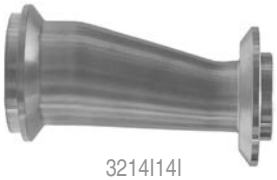
3114I14I

3114I15I



3115I14I

3115I15I



3214I14I

3214I15I

32I15I14I

3215I15I

I-line Gaskets

Buna-N I-Line Gaskets - *Black* 3/32"

Features:
- color code: red dot
- meets 21CFR 177.2600

Size	Part Number
1"	***40IH100***
1½"	***40IH150***
2"	***40IH200***
2½"	***40IH250***
3"	***40IH300***
4"	***40IH400***
6"	***40IH600***
8"	***40IH800***

EPDM I-Line Gaskets - *White* 3/32"

Features:
- color code: three green dots
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

Size	Part Number
1"	***40IE100***
1½"	***40IE150***
2"	***40IE200***
2½"	***40IE250***
3"	***40IE300***
4"	***40IE400***
6"	***40IE600***
8"	***40IE800***

EPDM I-Line Gaskets - *White* 1/16"

Features:
- color code: three green dots
- peroxide cured
- meets 21CFR 177.2600
- passed U.S.P. Class VI Cytotoxicity testing

Size	Part Number
1"	***40IE10016***
1½"	***40IE15016***
2"	***40IE20016***
2½"	***40IE25016***
3"	***40IE30016***
4"	***40IE40016***
6"	***40IE60016***
8"	***40IE80016***

FKM I-Line Gaskets - 1/16"

Features:
- color code: one white dot and one yellow dot
- peroxide cured
- meets 21CFR 177.1550
- passed U.S.P. Class VI Cytotoxicity testing

Size	Part Number
1"	***40IV100***
1½"	***40IV150***
2"	***40IV200***
2½"	***40IV250***
3"	***40IV300***
4"	***40IV400***
6"	***40IV600***
8"	***40IV800***

Note: refer to pages 236-238 for compatibility information

I-line Gaskets

PTFE I-Line Gaskets - 1/16"

Size	Part Number
1"	***40IT100***
1½"	***40IT150***
2"	***40IT200***
2½"	***40IT250***
3"	***40IT300***
4"	***40IT400***
6"	***40IT600***
8"	***40IT800***

Features:
- color code: no dot
- meets 21CFR 177.1550
- passed U.S.P. Class VI Cytotoxicity testing

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

Q-Line Gaskets

Buna-N Q-Line Gaskets - *Black*

Size	Part Number
1"	***40QH100***
1½"	***40QH150***
2"	***40QH200***
2½"	***40QH250***
3"	***40QH300***
4"	***40QH400***

Features:
- color code: red dot
- meets 21CFR 177.2600

PTFE Q-Line Gaskets - *White*

Size	Part Number
1"	***40QT100***
1½"	***40QT150***
2"	***40QT200***
2½"	***40QT250***
3"	***40QT300***
4"	***40QT400***

Features:
- color code: no dot
- meets 21CFR 177.1550
- passed U.S.P. Class VI Cytotoxicity testing

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

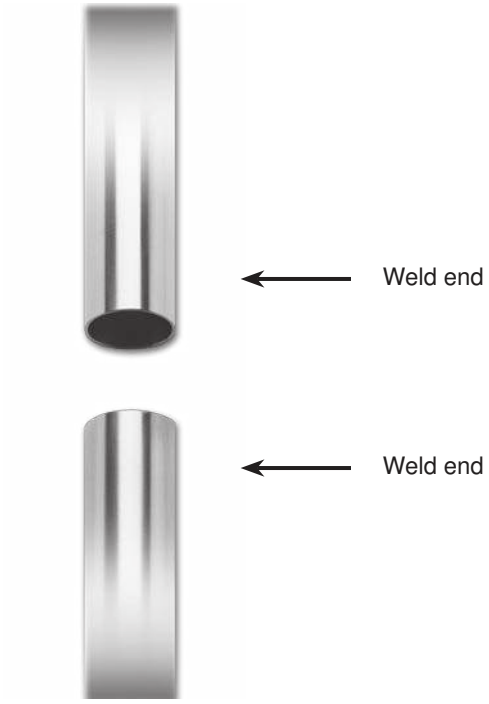
Note: refer to pages 236-238 for compatibility information

A 3 63-03
621

Dixon Sanitary Polished Weld Fittings

F

A Complete Weld Connection



Product Specifications

Size range:
- ½" - 12" OD tube

Materials:
- G = 304 stainless steel
- R = 316L stainless steel
- other alloys are available

Finish:
- 3A sanitary finish ID and OD
- #3, #5 and electropolish finishes are available

Dimensions of stainless steel tube given in inches

Tube OD	Nominal Wall Thickness (inches)	Gage Number
½"	.065	16
¾"	.065	16
1"	.065	16
1½"	.065	16
2"	.065	16
2½"	.065	16
3"	.065	16
4"	.083	14
6"	.109	12
8"	.120	10
10"	.109	12
12"	.120	10

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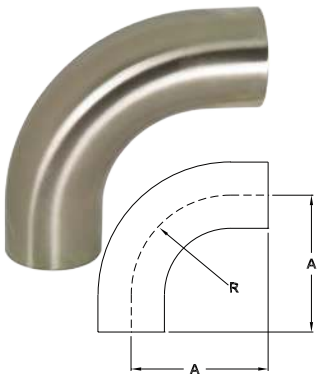
Weld Elbows

Polished 90° Weld Elbows with Tangents - *B2S*

Tube OD	A	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	3.000	1.125	.065	---	B2S-R50P
¾"	3.000	1.125	.065	---	B2S-R75P
1"	2.062	1.500	.065	B2S-G100P	B2S-R100P
1½"	2.937	2.250	.065	B2S-G150P	B2S-R150P
2"	4.062	3.000	.065	B2S-G200P	B2S-R200P
2½"	5.187	3.750	.065	B2S-G250P	B2S-R250P
3"	6.312	4.500	.065	B2S-G300P	B2S-R300P
4"	8.312	6.000	.083	B2S-G400P	B2S-R400P



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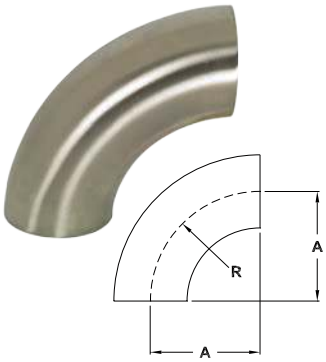
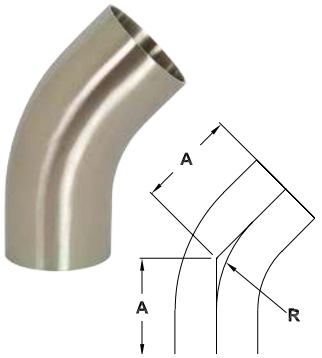
Polished 90° Weld Elbows - *B2WCL*

Tube OD	A	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	1.125	1.125	.065	---	B2WCL-R50P
¾"	1.125	1.125	.065	---	B2WCL-R75P
1"	1.500	1.500	.065	B2WCL-G100P	B2WCL-R100P
1½"	2.250	2.250	.065	B2WCL-G150P	B2WCL-R150P
2"	3.000	3.000	.065	B2WCL-G200P	B2WCL-R200P
2½"	3.750	3.750	.065	B2WCL-G250P	B2WCL-R250P
3"	4.500	4.500	.065	B2WCL-G300P	B2WCL-R300P
4"	6.000	6.000	.083	B2WCL-G400P	B2WCL-R400P
6"	9.000	9.000	.109	B2WCL-G600P	B2WCL-R600P
8"	12.000	12.000	.120	B2WCL-G800P	B2WCL-R800P
10"	15.000	15.000	.109	B2WCL-G1000P	B2WCL-R1000P



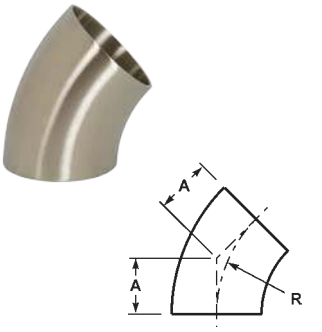
Polished 45° Weld Elbows with Tangents - *B2KS*

Tube OD	A	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	2.250	1.125	.065	---	B2KS-R50P
¾"	2.250	1.125	.065	---	B2KS-R75P
1"	1.188	1.500	.065	B2KS-G100P	B2KS-R100P
1½"	1.625	2.250	.065	B2KS-G150P	B2KS-R150P
2"	2.312	3.000	.065	B2KS-G200P	B2KS-R200P
2½"	3.000	3.750	.065	B2KS-G250P	B2KS-R250P
3"	3.688	4.500	.065	B2KS-G300P	B2KS-R300P
4"	4.812	6.000	.083	B2KS-G400P	B2KS-R400P



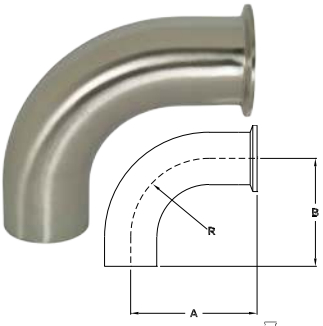
Polished 45° Weld Elbows - *B2WK*

Tube OD	A	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	.466	1.125	.065	---	B2WK-R50P
¾"	.466	1.125	.065	---	B2WK-R75P
1"	.625	1.500	.065	B2WK-G100P	B2WK-R100P
1½"	.937	2.250	.065	B2WK-G150P	B2WK-R150P
2"	1.250	3.000	.065	B2WK-G200P	B2WK-R200P
2½"	1.562	3.750	.065	B2WK-G250P	B2WK-R250P
3"	1.875	4.500	.065	B2WK-G300P	B2WK-R300P
4"	2.500	6.000	.083	B2WK-G400P	B2WK-R400P
6"	3.750	9.000	.109	B2WK-G600P	B2WK-R600P
8"	5.000	12.000	.120	B2WK-G800P	B2WK-R800P
10"	6.250	15.000	.109	B2WK-G1000P	B2WK-R1000P
12"	7.500	18.000	.120	B2WK-G1200P	B2WK-R1200P



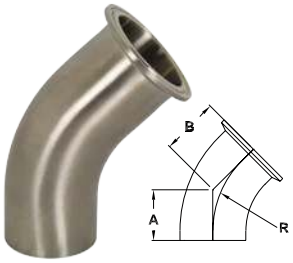
Weld Elbows

Polished 90° Clamp x Weld Elbows - *B2CM*



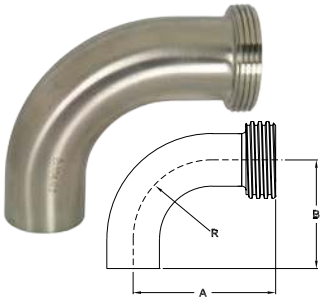
Tube OD	A	B	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	2.562	2.062	1.500	.065	***B2CM-G100***	***B2CM-R100***
1½"	3.438	2.937	2.250	.065	***B2CM-G150***	***B2CM-R150***
2"	4.562	4.062	3.000	.065	***B2CM-G200***	***B2CM-R200***
2½"	5.688	5.187	3.750	.065	***B2CM-G250***	***B2CM-R250***
3"	6.812	6.312	4.500	.065	***B2CM-G300***	***B2CM-R300***
4"	8.937	8.312	6.000	.083	***B2CM-G400***	***B2CM-R400***

Polished 45° Clamp x Weld Elbows - *B2KM*



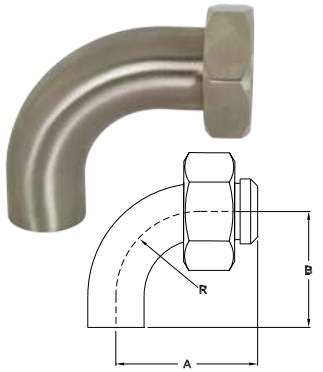
Tube OD	A	B	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	1.188	1.688	1.500	.065	***B2KM-G100***	***B2KM-R100***
1½"	1.625	2.125	2.250	.065	***B2KM-G150***	***B2KM-R150***
2"	2.312	2.812	3.000	.065	***B2KM-G200***	***B2KM-R200***
2½"	3.000	3.500	3.750	.065	***B2KM-G250***	***B2KM-R250***
3"	3.688	4.188	4.500	.065	***B2KM-G300***	***B2KM-R300***
4"	4.812	5.437	6.000	.083	***B2KM-G400***	***B2KM-R400***

Polished 90° Threaded Bevel Seat x Weld Elbows - *B2T*



Tube OD	A	B	R	Nominal Wall	*304 Stainless Steel* Part Number
1"	2.780	2.062	1.500	.065	***B2T-G100***
1½"	3.656	2.937	2.250	.065	***B2T-G150***
2"	4.812	4.062	3.000	.065	***B2T-G200***
2½"	6.062	5.187	3.750	.065	***B2T-G250***
3"	7.218	6.312	4.500	.065	***B2T-G300***
4"	9.343	8.312	6.000	.083	***B2T-G400***

Polished 90° Plain Bevel Seat with Hex Nut x Weld Elbows - *B2FP*



Tube OD	A	B	R	Nominal Wall	*304 Stainless Steel* Part Number
1"	2.780	2.062	1.500	.065	***B2FP-G100***
1½"	3.656	2.937	2.250	.065	***B2FP-G150***
2"	4.812	4.062	3.000	.065	***B2FP-G200***
2½"	6.062	5.187	3.750	.065	***B2FP-G250***
3"	7.218	6.312	4.500	.065	***B2FP-G300***
4"	9.343	8.312	6.000	.083	***B2FP-G400***

Other types of weld elbows are available call Dixon Sanitary for information

B2KT

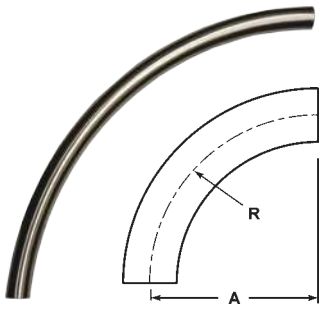
B2KP

Weld Sweep Elbows

- Standard with no tangents. Call Dixon Sanitary for tangents, 45° and other radii.

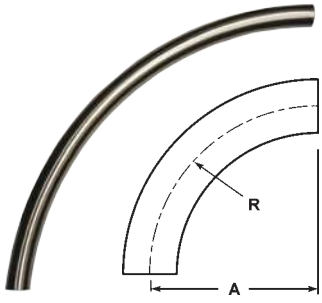
Polished 12" 90° Weld Sweep Elbows - *B2SXL*

Tube OD	A	R	*316L Stainless Steel* Part Number
1½"	12.00	12.00	***B2SXL12-R150***
2"	12.00	12.00	***B2SXL12-R200***
3"	12.00	12.00	***B2SXL12-R300***
4"	12.00	12.00	***B2SXL12-R400***



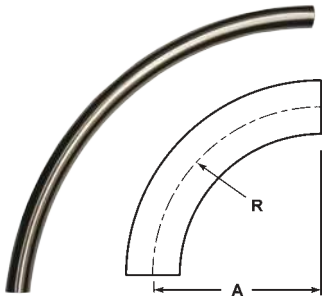
Polished 18" 90° Weld Sweep Elbows - *B2SXL*

Tube OD	A	R	*316L Stainless Steel* Part Number
1½"	18.00	18.00	***B2SXL18-R150***
2"	18.00	18.00	***B2SXL18-R200***
2½"	18.00	18.00	***B2SXL18-R250***
3"	18.00	18.00	***B2SXL18-R300***



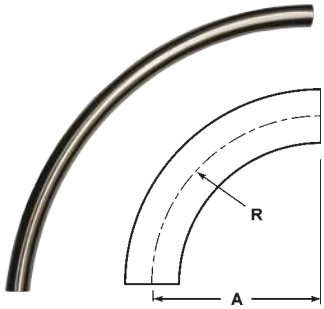
Polished 24" 90° Weld Sweep Elbows - *B2SXL*

Tube OD	A	R	*316L Stainless Steel* Part Number
1½"	24.00	24.00	***B2SXL24-R150***
2"	24.00	24.00	***B2SXL24-R200***
2½"	24.00	24.00	***B2SXL24-R250***
3"	24.00	24.00	***B2SXL24-R300***



Polished 36" 90° Weld Sweep Elbows - *B2SXL*

Tube OD	A	R	*316L Stainless Steel* Part Number
3"	36.00	36.00	***B2SXL36-R300***
4"	36.00	36.00	***B2SXL36-R400***



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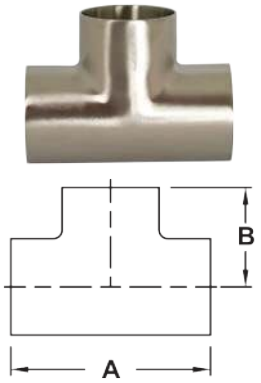
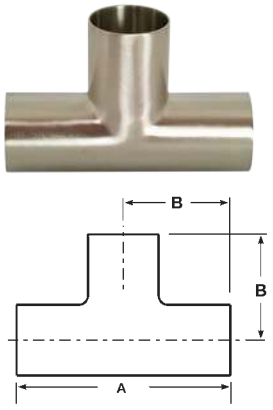
Weld Tees

Polished Short Weld Tees - *B7WWW*



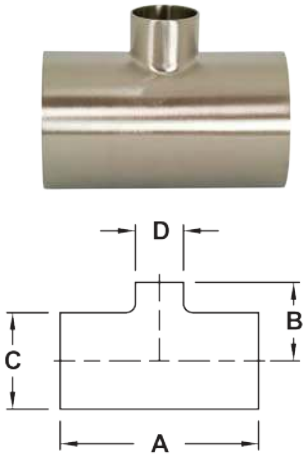
Tube OD	A	B	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	2.250	1.125	.065	***B7WWW-G100P***	***B7WWW-R100P***
1½"	3.312	1.656	.065	***B7WWW-G150P***	***B7WWW-R150P***
2"	4.124	2.062	.065	***B7WWW-G200P***	***B7WWW-R200P***
2½"	4.688	2.344	.065	***B7WWW-G250P***	***B7WWW-R250P***
3"	5.188	2.594	.065	***B7WWW-G300P***	***B7WWW-R300P***
4"	6.876	3.438	.083	***B7WWW-G400P***	***B7WWW-R400P***

Polished Long Weld Tees - *B7W*



Tube OD	A	B	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	3.750	1.875	.065	***---***	***B7W-R50P***
¾"	4.000	2.000	.065	***---***	***B7W-R75P***
1"	3.750	1.875	.065	***B7W-G100P***	***B7W-R100P***
1½"	4.500	2.250	.065	***B7W-G150P***	***B7W-R150P***
2"	6.000	3.000	.065	***B7W-G200P***	***B7W-R200P***
2½"	6.000	3.000	.065	***B7W-G250P***	***B7W-R250P***
3"	6.500	3.250	.065	***B7W-G300P***	***B7W-R300P***
4"	7.750	3.875	.083	***B7W-G400P***	***B7W-R400P***
6"	11.250	5.625	.109	***B7W-G600P***	***B7W-R600P***
8"	14.000	7.000	.120	***B7W-G800P***	***B7W-R800P***

Polished Reducing Weld Tees - *B7RWWW*

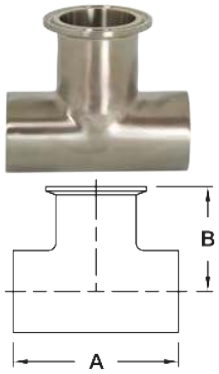


Tube OD	A	B	C	D	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾" x ½"	4.000	2.000	.750	.500	.065	***---***	***B7RWWW-R7550P***
1" x ½"	4.250	2.125	1.000	.500	.065	***---***	***B7RWWW-R10050P***
1" x ¾"	4.250	2.125	1.000	.750	.065	***---***	***B7RWWW-R10075P***
1½" x ½"	4.750	2.375	1.500	.500	.065	***---***	***B7RWWW-R15050P***
1½" x ¾"	4.750	2.375	1.500	.750	.065	***---***	***B7RWWW-R15075P***
1½" x 1"	3.312	1.375	1.500	1.000	.065	***B7RWWW-G150100P***	***B7RWWW-R150100P***
2" x ½"	5.750	2.625	2.000	.500	.065	***---***	***B7RWWW-R20050P***
2" x ¾"	5.750	2.625	2.000	.750	.065	***---***	***B7RWWW-R20075P***
2" x 1"	4.124	1.625	2.000	1.000	.065	***B7RWWW-G200100P***	***B7RWWW-R200100P***
2" x 1½"	4.124	1.906	2.000	1.500	.065	***B7RWWW-G200150P***	***B7RWWW-R200150P***
2½" x 1½"	4.688	2.156	2.500	1.500	.065	***B7RWWW-G250150P***	***B7RWWW-R250150P***
2½" x 2"	4.688	2.312	2.500	2.000	.065	***B7RWWW-G250200P***	***B7RWWW-R250200P***
3" x 1½"	5.188	2.406	3.000	1.500	.065	***B7RWWW-G300150P***	***B7RWWW-R300150P***
3" x 2"	5.188	2.562	3.000	2.000	.065	***B7RWWW-G300200P***	***B7RWWW-R300200P***
3" x 2½"	5.188	2.594	3.000	2.500	.083	***B7RWWW-G300250P***	***B7RWWW-R300250P***
4" x 1½"	6.876	2.906	4.000	1.500	.083	***B7RWWW-G400150P***	***B7RWWW-R400150P***
4" x 2"	6.876	3.062	4.000	2.000	.083	***B7RWWW-G400200P***	***B7RWWW-R400200P***
4" x 2½"	6.876	3.094	4.000	2.500	.083	***B7RWWW-G400250P***	***B7RWWW-R400250P***
4" x 3"	6.876	3.094	4.000	3.000	.083	***B7RWWW-G400300P***	***B7RWWW-R400300P***
6" x 2"	11.250	4.500	6.000	2.000	.109	***B7RWWW-G600200P***	***B7RWWW-R600200P***
6" x 3"	11.250	4.875	6.000	3.000	.109	***B7RWWW-G600300P***	***B7RWWW-R600300P***
6" x 4"	11.250	5.125	6.000	4.000	.109	***B7RWWW-G600400P***	***B7RWWW-R600400P***

Weld Tees

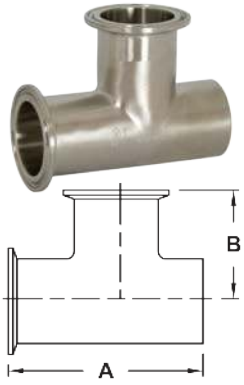
Polished Weld Run x Clamp Branch Tees - *B7WWM* [3]

Tube OD	A	B	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	2.250	1.625	.065	***B7WWM-G100***	***B7WWM-R100***
1½"	3.312	2.156	.065	***B7WWM-G150***	***B7WWM-R150***
2"	4.124	2.562	.065	***B7WWM-G200***	***B7WWM-R200***
2½"	4.688	2.844	.065	***B7WWM-G250***	***B7WWM-R250***
3"	5.188	3.094	.065	***B7WWM-G300***	***B7WWM-R300***
4"	6.876	4.063	.083	***B7WWM-G400***	***B7WWM-R400***



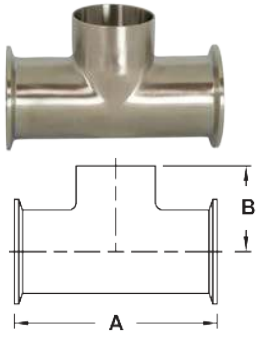
Polished Weld x Clamp Run x Clamp Branch Tees - *B7WMM* [3]

Tube OD	A	B	Nominal Wall	*304 Stainless Steel* Part Number
1"	2.750	1.625	.065	***B7WMM-G100***
1½"	3.812	2.156	.065	***B7WMM-G150***
2"	4.624	2.562	.065	***B7WMM-G200***
2½"	5.188	2.844	.065	***B7WMM-G250***
3"	5.688	3.094	.065	***B7WMM-G300***
4"	7.500	4.063	.083	***B7WMM-G400***



Polished Clamp Run x Weld Branch Tees - *B7MMW* [3]

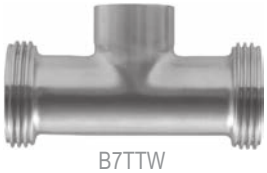
Tube OD	A	B	Nominal Wall	*304 Stainless Steel* Part Number
1"	3.250	1.125	.065	***B7MMW-G100***
1½"	4.312	1.656	.065	***B7MMW-G150***
2"	5.124	2.062	.065	***B7MMW-G200***
2½"	5.688	2.062	.065	***B7MMW-G250***
3"	6.188	2.594	.065	***B7MMW-G300***
4"	8.124	3.438	.083	***B7MMW-G400***



Other types of weld tees are available call Dixon Sanitary for information

B7WWT

B7WTT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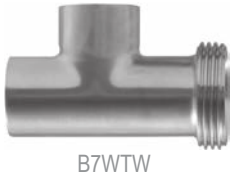
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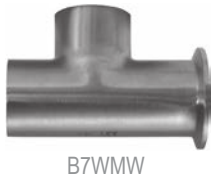
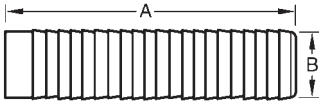

B7WMW

B7RWWWS

F

Weld Adapters

Long Weld Hose Adapters - *14WHRL*

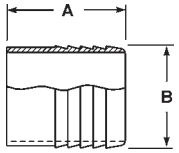


Feature:
- suitable for use with band clamps

Tube OD	A	B	Nominal Wall	*316L Stainless Steel* Part Number
1"	3.000	1.030	.116	***14WHRL-R100***
1½"	4.500	1.530	.116	***14WHRL-R150***
2"	4.500	2.030	.116	***14WHRL-R200***
2½"	5.000	2.530	.116	***14WHRL-R250***
3"	5.000	3.030	.116	***14WHRL-R300***
4"	4.875	4.030	.116	***14WHRL-R400***

Use of PVC tubing requires special techniques to prevent leakage. All assembly work must be done with heated tube. Cold durometer is 90 as opposed to rubber hose at 65 to 70 durometer. Banding buckles must be at 180° from one another.

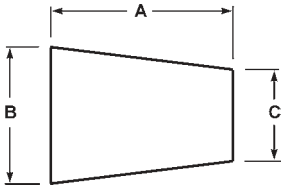
Weld Hose Adapters - *14WHR*



Tube OD	A	B	Nominal Wall	*316L Stainless Steel* Part Number
½"	1.500	.500	.065	***14WHR-R50***
¾"	1.500	.750	.065	***14WHR-R75***
1"	1.688	1.000	.065	***14WHR-R100***
1½"	1.688	1.500	.065	***14WHR-R150***
2"	2.312	2.000	.065	***14WHR-R200***
2½"	2.000	2.500	.065	***14WHR-R250***
3"	3.093	3.000	.065	***14WHR-R300***
4"	3.406	4.000	.083	***14WHR-R400***

Weld Reducers

Polished Concentric Weld Reducers - *B31W*

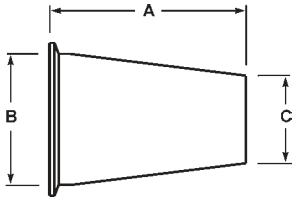


Tube OD	A	B	C	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾" x ½"	1.000	.750	.500	.065	---	***B31W-R7550P***
1" x ½"	2.000	1.000	.500	.065	---	***B31W-R10050P***
1" x ¾"	1.000	1.000	.750	.065	---	***B31W-R10075P***
1½" x ½"	4.000	1.500	.500	.065	---	***B31W-R15050P***
1½" x ¾"	3.000	1.500	.750	.065	---	***B31W-R15075P***
1½" x 1"	2.000	1.500	1.000	.065	***B31W-G150100P***	***B31W-R150100P***
2" x ½"	6.000	2.000	.500	.065	---	***B31W-R20050P***
2" x ¾"	5.000	2.000	.750	.065	---	***B31W-R20075P***
2" x 1"	4.000	2.000	1.000	.065	***B31W-G200100P***	***B31W-R200100P***
2" x 1½"	2.000	2.000	1.500	.065	***B31W-G200150P***	***B31W-R200150P***
2½" x 1½"	4.000	2.500	1.500	.065	***B31W-G250150P***	***B31W-R250150P***
2½" x 2"	2.000	2.500	2.000	.065	***B31W-G250200P***	***B31W-R250200P***
3" x 1"	8.000	3.000	1.000	.065	***B31W-G300100P***	***B31W-R300100P***
3" x 1½"	6.000	3.000	1.500	.065	***B31W-G300150P***	***B31W-R300150P***
3" x 2"	4.000	3.000	2.000	.065	***B31W-G300200P***	***B31W-R300200P***
3" x 2½"	2.000	3.000	2.500	.065	***B31W-G300250P***	***B31W-R300250P***
4" x 1½"	10.000	4.000	1.500	.083	***B31W-G400150P***	***B31W-R400150P***
4" x 2"	8.000	4.000	2.000	.083	***B31W-G400200P***	***B31W-R400200P***
4" x 2½"	6.000	4.000	2.500	.083	***B31W-G400250P***	***B31W-R400250P***
4" x 3"	4.000	4.000	3.000	.083	***B31W-G400300P***	***B31W-R400300P***
6" x 2"	5.500	6.000	2.000	.109	***B31W-G600200P***	***B31W-R600200P***
6" x 3"	5.500	6.000	3.000	.109	***B31W-G600300P***	***B31W-R600300P***
6" x 4"	5.500	6.000	4.000	.109	***B31W-G600400P***	***B31W-R600400P***
8" x 4"	6.000	8.000	4.000	.120	***B31W-G800400P***	***B31W-R800400P***
8" x 6"	6.000	8.000	6.000	.120	***B31W-G800600P***	***B31W-R800600P***

Weld Reducers

Polished Concentric Clamp x Weld Reducers - *B31M*

Tube OD	A	B	C	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾" x ½"	1.500	.750	.500	.065	---	***B31M-R7550***
1" x ½"	2.500	1.000	.500	.065	---	***B31M-R10050***
1" x ¾"	1.500	1.000	.750	.065	---	***B31M-R10075***
1½" x ½"	4.500	1.500	.500	.065	---	***B31M-R15050***
1½" x ¾"	3.500	1.000	.750	.065	---	***B31M-R15075***
1½" x 1"	2.500	1.500	1.000	.065	***B31M-G150100***	***B31M-R150100***
2" x 1"	4.500	2.000	1.000	.065	***B31M-G200100***	***B31M-R200100***
2" x 1½"	2.500	2.000	1.500	.065	***B31M-G200150***	***B31M-R200150***
2½" x 1½"	4.500	2.500	1.500	.065	***B31M-G250150***	***B31M-R250150***
2½" x 2"	2.500	2.500	2.000	.065	***B31M-G250200***	***B31M-R250200***
3" x 1½"	6.500	3.000	1.500	.065	***B31M-G300150***	***B31M-R300150***
3" x 2"	4.500	3.000	2.000	.065	***B31M-G300200***	***B31M-R300200***
3" x 2½"	2.500	3.000	2.500	.065	***B31M-G300250***	***B31M-R300250***
4" x 2"	8.625	4.000	2.000	.083	***B31M-G400200***	***B31M-R400200***
4" x 2½"	6.625	4.000	2.500	.083	***B31M-G400250***	***B31M-R400250***
4" x 3"	4.625	4.000	3.000	.083	***B31M-G400300***	***B31M-R400300***



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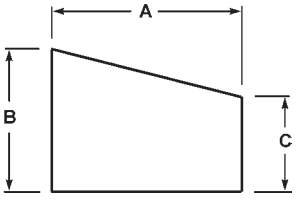
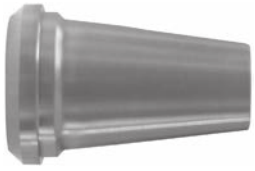
Polished Eccentric Weld Reducers - *B32W*

Tube OD	A	B	C	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾" x ½"	1.000	.750	.500	.065	---	***B32W-R7550P***
1" x ½"	2.000	1.000	.500	.065	---	***B32W-R10050P***
1" x ¾"	1.000	1.000	.750	.065	---	***B32W-R10075P***
1½" x ½"	4.000	1.500	.500	.065	---	***B32W-R15050P***
1½" x ¾"	3.000	1.500	.750	.065	---	***B32W-R15075P***
1½" x 1"	2.000	1.500	1.000	.065	***B32W-G150100P***	***B32W-R150100P***
2" x ½"	6.000	2.000	.500	.065	---	***B32W-R20050P***
2" x ¾"	5.000	2.000	.750	.065	---	***B32W-R20075P***
2" x 1"	4.000	2.000	1.000	.065	***B32W-G200100P***	***B32W-R200100P***
2" x 1½"	2.000	2.000	1.500	.065	***B32W-G200150P***	***B32W-R200150P***
2½" x 1½"	4.000	2.500	1.500	.065	***B32W-G250150P***	***B32W-R250150P***
2½" x 2"	2.000	2.500	2.000	.065	***B32W-G250200P***	***B32W-R250200P***
3" x 1"	8.000	3.000	1.000	.065	***B32W-G300100P***	***B32W-R300100P***
3" x 1½"	6.000	3.000	1.500	.065	***B32W-G300150P***	***B32W-R300150P***
3" x 2"	4.000	3.000	2.000	.065	***B32W-G300200P***	***B32W-R300200P***
3" x 2½"	2.000	3.000	2.500	.065	***B32W-G300250P***	***B32W-R300250P***
4" x 1½"	10.000	4.000	1.500	.083	***B32W-G400150P***	***B32W-R400150P***
4" x 2"	8.000	4.000	2.000	.083	***B32W-G400200P***	***B32W-R400200P***
4" x 2½"	6.000	4.000	2.500	.083	***B32W-G400250P***	***B32W-R400250P***
4" x 3"	4.000	4.000	3.000	.083	***B32W-G400300P***	***B32W-R400300P***
6" x 3"	5.500	6.000	3.000	.109	***B32W-G600300P***	***B32W-R600300P***
6" x 4"	5.500	6.000	4.000	.109	***B32W-G600400P***	***B32W-R600400P***
8" x 4"	6.000	8.000	4.000	.120	***B32W-G800400P***	***B32W-R800400P***
8" x 6"	6.000	8.000	6.000	.120	***B32W-G800600P***	***B32W-R800600P***



Other types of weld reducers are available call Dixon Sanitary for information



B31P

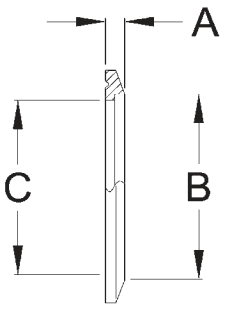
B32M

B32P

Clamp Ferrules

Quick Weld Ferrules- *14QMP*

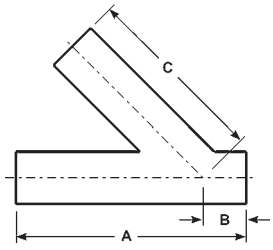
Features:
- 304 stainless construction
- just slip onto sanitary OD tube and weld
- no need to butt weld



Tube OD	A	B	C	*304 Stainless Steel* Part Number
1"	.290	1.005	.870	***14QMP-G100***
1½"	.199	1.505	1.370	***14QMP-G150***
2"	.205	2.005	1.870	***14QMP-G200***
2½"	.210	2.505	2.370	***14QMP-G250***
3"	.257	3.005	2.870	***14QMP-G300***
4"	.235	4.005	3.834	***14QMP-G400***
6"	.321	6.005	5.782	***14QMP-G600***

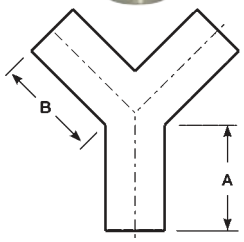
Miscellaneous Weld Configurations

Polished Weld Laterals - *B28WA*



Tube OD	A	B	C	Nominal Wall	*316L Stainless Steel* Part Number
1"	6.000	1.000	5.000	.065	***B28WA-R100P***
1½"	7.375	1.188	6.188	.065	***B28WA-R150P***
2"	8.750	1.625	7.125	.065	***B28WA-R200P***
2½"	10.000	1.500	8.500	.065	***B28WA-R250P***
3"	10.750	1.875	8.875	.065	***B28WA-R300P***
4"	12.812	2.015	10.750	.083	***B28WA-R400P***
6"	18.000	3.500	14.500	.109	***B28WA-R600P***

Polished Weld True Wyes - *B28W*

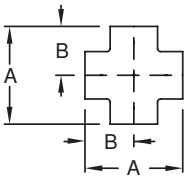


Tube OD	A	B	Nominal Wall	*316L Stainless Steel* Part Number
1"	2.000	2.438	.065	***B28W-R100P***
1½"	2.000	2.438	.065	***B28W-R150P***
2"	2.625	3.250	.065	***B28W-R200P***
2½"	3.370	4.125	.065	***B28W-R250P***
3"	4.000	4.875	.065	***B28W-R300P***
4"	5.375	5.375	.083	***B28W-R400P***

Miscellaneous Weld Configurations

Polished Weld Crosses - *B9WWWW*

Tube OD	A	B	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	2.250	1.125	.065	***B9WWWW-G100P***	***B9WWWW-R100P***
1½"	3.312	1.656	.065	***B9WWWW-G150P***	***B9WWWW-R150P***
2"	4.125	2.062	.065	***B9WWWW-G200P***	***B9WWWW-R200P***
2½"	4.687	2.343	.065	***B9WWWW-G250P***	***B9WWWW-R250P***
3"	5.187	2.593	.065	***B9WWWW-G300P***	***B9WWWW-R300P***
4"	6.875	3.437	.083	***B9WWWW-G400P***	***B9WWWW-R400P***

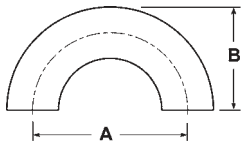


F

Polished Weld 180° Return Bends - *B2WUL*

- bends are standard 1.5 x tube diameter

Tube OD	A	B	*316L Stainless Steel* Part Number
1"	3.000	2.000	***B2WUL-R100P***
1½"	4.500	3.000	***B2WUL-R150P***
2"	6.000	4.000	***B2WUL-R200P***
2½"	7.500	5.000	***B2WUL-R250P***
3"	9.000	6.000	***B2WUL-R300P***
4"	12.000	8.000	***B2WUL-R400P***



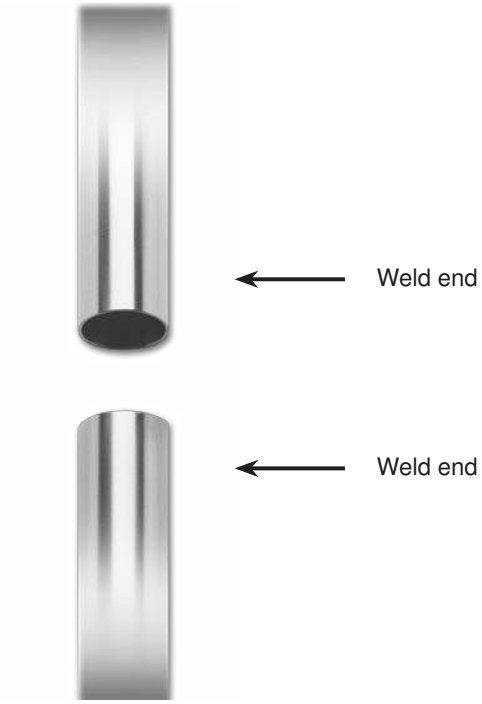
Weld End Blue Protection Covers - *BCW*

Features:
- Use these covers to protect all weld ends on fittings and valves.
- vinyl plastic

Size	Part Number
½"	***BCW-050***
¾"	***BCW-075***
1"	***BCW-100***
1½"	***BCW-150***
2"	***BCW-200***
2½"	***BCW-250***
3"	***BCW-300***
4"	***BCW-400***
6"	***BCW-600***
8"	***BCW-800***

Dixon Sanitary Unpolished Weld Fittings

A Complete Weld Connection



Product Specifications

Size range:
- ½" - 12" OD tube

Materials:
- G = 304 stainless steel
- R = 316L stainless steel
- other alloys are available

Finish:
- unpolished

Dimensions of stainless steel tube given in inches

Tube OD	Nominal Wall Thickness (inches)	Gage Number
½"	.065	16
¾"	.065	16
1"	.065	16
1½"	.065	16
2"	.065	16
2½"	.065	16
3"	.065	16
4"	.083	14
6"	.109	12
8"	.120	10
10"	.109	12
12"	.120	10

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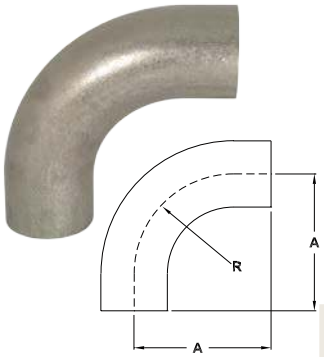
Unpolished Elbows

Unpolished 90° Weld Elbows with Tangents - *B2S*

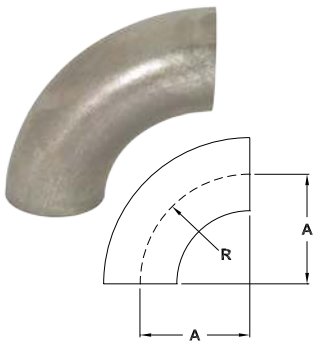
Tube OD	A	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	3.000	1.125	.065	---	B2S-R50U
¾"	3.000	1.125	.065	---	B2S-R75U
1"	2.062	1.500	.065	B2S-G100U	B2S-R100U
1½"	2.937	2.250	.065	B2S-G150U	B2S-R150U
2"	4.062	3.000	.065	B2S-G200U	B2S-R200U
2½"	5.187	3.750	.065	B2S-G250U	B2S-R250U
3"	6.312	4.500	.065	B2S-G300U	B2S-R300U
4"	8.312	6.000	.083	B2S-G400U	B2S-R400U



G

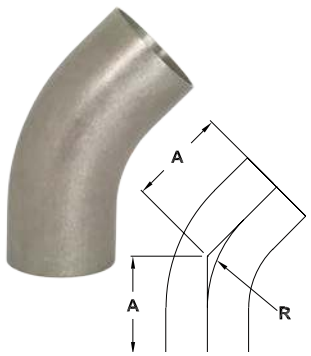
Unpolished 90° Weld Elbows - *B2WCL*

Tube OD	A	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	1.125	1.125	.065	---	B2WCL-R50U
¾"	1.125	1.125	.065	---	B2WCL-R75U
1"	1.500	1.500	.065	B2WCL-G100U	B2WCL-R100U
1½"	2.250	2.250	.065	B2WCL-G150U	B2WCL-R150U
2"	3.000	3.000	.065	B2WCL-G200U	B2WCL-R200U
2½"	3.750	3.750	.065	B2WCL-G250U	B2WCL-R250U
3"	4.500	4.500	.065	B2WCL-G300U	B2WCL-R300U
4"	6.000	6.000	.083	B2WCL-G400U	B2WCL-R400U
6"	9.000	9.000	.109	B2WCL-G600U	B2WCL-R600U
8"	12.000	12.000	.120	B2WCL-G800U	B2WCL-R800U
10"	15.000	15.000	.109	B2WCL-G1000U	B2WCL-R1000U
12"	18.000	18.000	.120	B2WCL-G1200U	B2WCL-R1200U



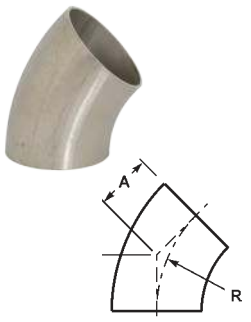
Unpolished 45° Weld Elbows with Tangents - *B2KS*

Tube OD	A	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	2.250	1.125	.065	---	B2KS-R50U
¾"	2.250	1.125	.065	---	B2KS-R75U
1"	1.188	1.500	.065	B2KS-G100U	B2KS-R100U
1½"	1.625	2.250	.065	B2KS-G150U	B2KS-R150U
2"	2.312	3.000	.065	B2KS-G200U	B2KS-R200U
2½"	3.000	3.750	.065	B2KS-G250U	B2KS-R250U
3"	3.688	4.500	.065	B2KS-G300U	B2KS-R300U
4"	4.812	6.000	.083	B2KS-G400U	B2KS-R400U



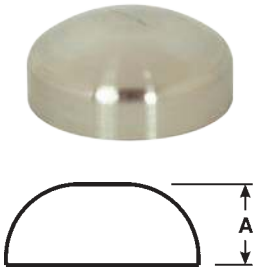
Unpolished 45° Weld Elbows - *B2WK*

Tube OD	A	R	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	.466	1.125	.065	---	B2WK-R50U
¾"	.466	1.125	.065	---	B2WK-R75U
1"	.625	1.500	.065	B2WK-G100U	B2WK-R100U
1½"	.937	2.250	.065	B2WK-G150U	B2WK-R150U
2"	1.250	3.000	.065	B2WK-G200U	B2WK-R200U
2½"	1.562	3.750	.065	B2WK-G250U	B2WK-R250U
3"	1.875	4.500	.065	B2WK-G300U	B2WK-R300U
4"	2.500	6.000	.083	B2WK-G400U	B2WK-R400U
6"	3.750	9.000	.109	B2WK-G600U	B2WK-R600U
8"	5.000	12.000	.120	B2WK-G800U	B2WK-R800U
10"	6.250	15.000	.109	B2WK-G1000U	B2WK-R1000U
12"	7.500	18.000	.120	B2WK-G1200U	B2WK-R1200U



Unpolished End Caps

Unpolished End Caps - *B16W*

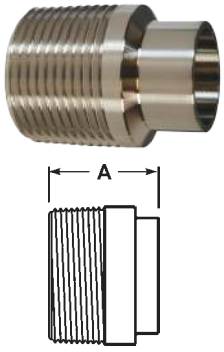


Tube OD	A	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	.250	---	***B16W-R50***
¾"	.312	---	***B16W-R75***
1"	.375	***B16W-G100***	***B16W-R100***
1½"	.562	***B16W-G150***	***B16W-R150***
2"	.750	***B16W-G200***	***B16W-R200***
2½"	1.000	***B16W-G250***	***B16W-R250***
3"	1.250	***B16W-G300***	***B16W-R300***
4"	1.500	***B16W-G400***	***B16W-R400***
6"	1.875	***B16W-G600***	***B16W-R600***
8"	2.500	***B16W-G800***	***B16W-R800***

Unpolished Adapters

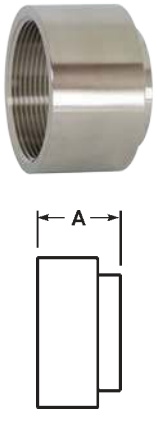
- 32Ra Finish ID

Male NPT x Weld End Adapters - *B19WB*



Tube OD	A	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	1.625	.065	---	***B19WB-R50***
¾"	1.625	.065	---	***B19WB-R75***
1"	1.750	.065	***B19WB-G100***	***B19WB-R100***
1½"	1.750	.065	***B19WB-G150***	***B19WB-R150***
2"	1.812	.065	***B19WB-G200***	***B19WB-R200***
2½"	2.312	.065	***B19WB-G250***	***B19WB-R250***
3"	2.500	.065	***B19WB-G300***	***B19WB-R300***
4"	2.562	.083	***B19WB-G400***	***B19WB-R400***

Female NPT x Weld End Adapters - *B22WB*



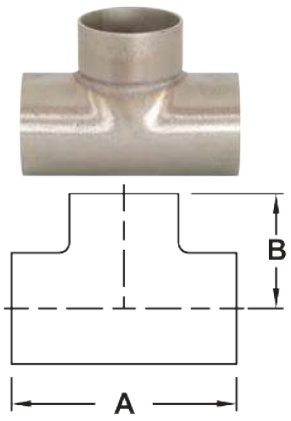
Tube OD	A	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	1.250	.065	---	***B22WB-R50***
¾"	1.625	.065	---	***B22WB-R75***
1"	1.750	.065	***B22WB-G100***	***B22WB-R100***
1½"	1.750	.065	***B22WB-G150***	***B22WB-R150***
2"	1.812	.065	***B22WB-G200***	***B22WB-R200***
2½"	2.312	.065	***B22WB-G250***	***B22WB-R250***
3"	2.500	.065	***B22WB-G300***	***B22WB-R300***
4"	2.500	.083	***B22WB-G400***	***B22WB-R400***

Note: see pages 242-243 for pipe thread information

Unpolished Tees

Unpolished Short Weld Tees - *B7WWW*

Tube OD	A	B	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	2.250	1.125	.065	***B7WWW-G100U***	***B7WWW-R100U***
1½"	3.312	1.656	.065	***B7WWW-G150U***	***B7WWW-R150U***
2"	4.124	2.062	.065	***B7WWW-G200U***	***B7WWW-R200U***
2½"	4.688	2.344	.065	***B7WWW-G250U***	***B7WWW-R250U***
3"	5.188	2.594	.065	***B7WWW-G300U***	***B7WWW-R300U***
4"	6.876	3.438	.083	***B7WWW-G400U***	***B7WWW-R400U***



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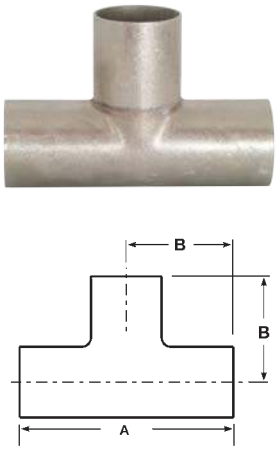
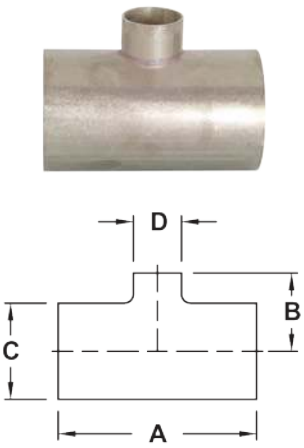
Unpolished Long Weld Tees - *B7W*

Tube OD	A	B	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	3.750	1.875	.065	***---***	***B7W-R50U***
¾"	4.000	2.000	.065	***---***	***B7W-R75U***
1"	3.750	1.875	.065	***B7W-G100U***	***B7W-R100U***
1½"	4.500	2.250	.065	***B7W-G150U***	***B7W-R150U***
2"	6.000	3.000	.065	***B7W-G200U***	***B7W-R200U***
2½"	6.000	3.000	.065	***B7W-G250U***	***B7W-R250U***
3"	6.500	3.250	.065	***B7W-G300U***	***B7W-R300U***
4"	7.750	3.875	.083	***B7W-G400U***	***B7W-R400U***
6"	11.250	5.625	.109	***B7W-G600U***	***B7W-R600U***
8"	14.000	7.000	.120	***B7W-G800U***	***B7W-R800U***



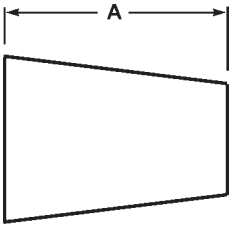
Unpolished Reducing Weld Tees - *B7RWWW*

Tube OD	A	B	C	D	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1½" x ¾"	4.750	2.375	1.500	.750	.065	***---***	***B7RWWW-R15075U***
1½" x 1"	3.312	1.375	1.500	1.000	.065	***B7RWWW-G150100U***	***B7RWWW-R150100U***
2" x ½"	5.750	2.625	2.000	.500	.065	***---***	***B7RWWW-R20050U***
2" x ¾"	5.750	2.625	2.000	.750	.065	***---***	***B7RWWW-R20075U***
2" x 1"	4.124	1.625	2.000	1.000	.065	***B7RWWW-G200100U***	***B7RWWW-R200100U***
2" x 1½"	4.124	1.906	2.000	1.500	.065	***B7RWWW-G200150U***	***B7RWWW-R200150U***
2½" x 1½"	4.688	2.156	2.500	1.500	.065	***B7RWWW-G250150U***	***B7RWWW-R250150U***
2½" x 2"	4.688	2.312	2.500	2.000	.065	***B7RWWW-G250200U***	***B7RWWW-R250200U***
3" x 1½"	5.188	2.406	3.000	1.500	.065	***B7RWWW-G300150U***	***B7RWWW-R300150U***
3" x 2"	5.188	2.562	3.000	2.000	.065	***B7RWWW-G300200U***	***B7RWWW-R300200U***
3" x 2½"	5.188	2.594	3.000	2.500	.065	***B7RWWW-G300250U***	***B7RWWW-R300250U***
4" x 1½"	6.876	2.906	4.000	1.500	.083	***B7RWWW-G400150U***	***B7RWWW-R400150U***
4" x 2"	6.876	3.062	4.000	2.000	.083	***B7RWWW-G400200U***	***B7RWWW-R400200U***
4" x 2½"	6.876	3.094	4.000	2.500	.083	***B7RWWW-G400250U***	***B7RWWW-R400250U***
4" x 3"	6.876	3.094	4.000	3.000	.083	***B7RWWW-G400300U***	***B7RWWW-R400300U***



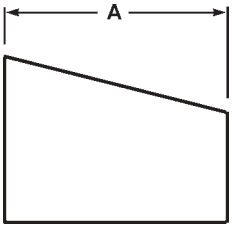
Unpolished Reducers

Unpolished Concentric Weld Reducers - *B31W*



Tube OD	A	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾" x ½"	1.000	.065	---	***B31W-R7550U***
1" x ½"	2.000	.065	---	***B31W-R10050U***
1" x ¾"	1.000	.065	---	***B31W-R10075U***
1½" x ½"	4.000	.065	---	***B31W-R15050U***
1½" x ¾"	3.000	.065	---	***B31W-R15075U***
1½" x 1"	2.000	.065	***B31W-G150100U***	***B31W-R150100U***
2" x ¾"	5.000	.065	---	***B31W-R20075U***
2" x 1"	4.000	.065	***B31W-G200100U***	***B31W-R200100U***
2" x 1½"	2.000	.065	***B31W-G200150U***	***B31W-R200150U***
2½" x 1½"	4.000	.065	***B31W-G250150U***	***B31W-R250150U***
2½" x 2"	2.000	.065	***B31W-G250200U***	***B31W-R250200U***
3" x 1"	8.000	.065	***B31W-G300100U***	***B31W-R300100U***
3" x 1½"	6.000	.065	***B31W-G300150U***	***B31W-R300150U***
3" x 2"	4.000	.065	***B31W-G300200U***	***B31W-R300200U***
3" x 2½"	2.000	.065	***B31W-G300250U***	***B31W-R300250U***
4" x 1½"	10.000	.083	***B31W-G400150U***	***B31W-R400150U***
4" x 2"	8.000	.083	***B31W-G400200U***	***B31W-R400200U***
4" x 2½"	6.000	.083	***B31W-G400250U***	***B31W-R400250U***
4" x 3"	4.000	.083	***B31W-G400300U***	***B31W-R400300U***
6" x 3"	5.500	.109	***B31W-G600300U***	***B31W-R600300U***
6" x 4"	5.500	.109	***B31W-G600400U***	***B31W-R600400U***
8" x 4"	6.000	.120	***B31W-G800400U***	***B31W-R800400U***
8" x 6"	6.000	.120	***B31W-G800600U***	***B31W-R800600U***

Unpolished Eccentric Weld Reducers - *B32W*

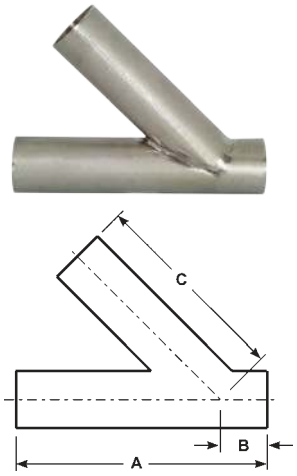


Tube OD	A	Nominal Wall	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾" x ½"	1.000	.065	---	***B32W-R7550U***
1" x ½"	2.000	.065	---	***B32W-R10050U***
1" x ¾"	1.000	.065	---	***B32W-R10075U***
1½" x ½"	4.000	.065	---	***B32W-R15050U***
1½" x ¾"	3.000	.065	---	***B32W-R15075U***
1½" x 1"	2.000	.065	***B32W-G150100U***	***B32W-R150100U***
2" x ¾"	5.000	.065	---	***B32W-R20075U***
2" x 1"	4.000	.065	***B32W-G200100U***	***B32W-R200100U***
2" x 1½"	2.000	.065	***B32W-G200150U***	***B32W-R200150U***
2½" x 2"	2.000	.065	***B32W-G250200U***	***B32W-R250200U***
3" x 1½"	6.000	.065	***B32W-G300150U***	***B32W-R300150U***
3" x 2"	4.000	.065	***B32W-G300200U***	***B32W-R300200U***
3" x 2½"	2.000	.065	***B32W-G300250U***	***B32W-R300250U***
4" x 1½"	10.000	.083	***B32W-G400150U***	***B32W-R400150U***
4" x 2"	8.000	.083	***B32W-G400200U***	***B32W-R400200U***
4" x 3"	4.000	.083	***B32W-G400300U***	***B32W-R400300U***
6" x 4"	5.500	.109	***B32W-G600400U***	***B32W-R600400U***
8" x 6"	6.000	.120	***B32W-G800600U***	***B32W-R800600U***

Miscellaneous Unpolished Configurations

Unpolished Weld Laterals - *B28WA*

Tube OD	A	B	C	Nominal Wall	*316L Stainless Steel* Part Number
1"	6.000	1.000	5.000	.065	***B28WA-R100U***
1½"	7.375	1.188	6.188	.065	***B28WA-R150U***
2"	8.750	1.625	7.125	.065	***B28WA-R200U***
2½"	10.000	1.500	8.500	.065	***B28WA-R250U***
3"	10.750	1.875	8.875	.065	***B28WA-R300U***
4"	12.812	2.015	10.750	.083	***B28WA-R400U***
6"	18.000	3.000	14.500	.109	***B28WA-R600U***



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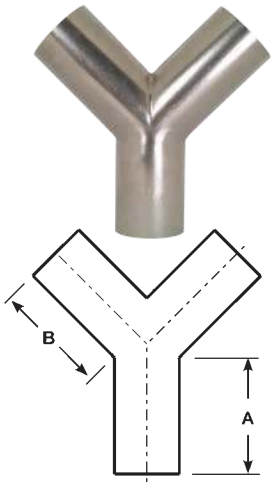
Unpolished Weld True Wyes - *B28W*

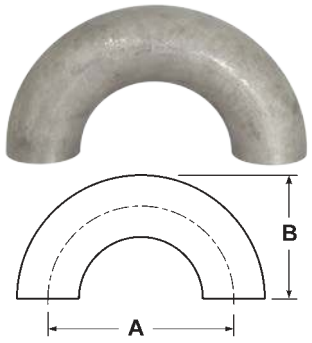
Tube OD	A	B	Nominal Wall	*316L Stainless Steel* Part Number
1"	2.000	2.438	.065	***B28W-R100U***
1½"	2.000	2.438	.065	***B28W-R150U***
2"	2.625	3.250	.065	***B28W-R200U***
2½"	3.370	4.125	.065	***B28W-R250U***
3"	4.000	4.875	.065	***B28W-R300U***
4"	5.375	5.375	.083	***B28W-R400U***



Unpolished Weld 180° Return Bends - *B2WUL*

- bends are standard 1.5 x tube diameter

Tube OD	A	B	Nominal Wall	*316L Stainless Steel* Part Number
1"	3.000	2.000	.065	***B2WUL-R100U***
1½"	4.500	3.000	.065	***B2WUL-R150U***
2"	6.000	4.000	.065	***B2WUL-R200U***
2½"	7.500	5.000	.065	***B2WUL-R250U***
3"	9.000	6.000	.065	***B2WUL-R300U***
4"	12.000	8.000	.083	***B2WUL-R400U***



Weld End Blue Protection Covers - *BCW*

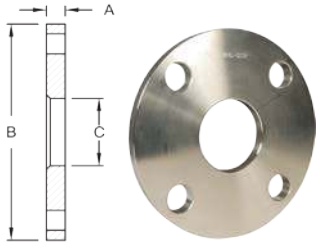
Size	Part Number
½"	***BCW-050***
¾"	***BCW-075***
1"	***BCW-100***
1½"	***BCW-150***
2"	***BCW-200***
2½"	***BCW-250***
3"	***BCW-300***
4"	***BCW-400***
6"	***BCW-600***
8"	***BCW-800***

Features:

- Use these covers to protect all weld ends on fittings and valves.
- vinyl plastic

Unpolished Flanges

Unpolished Slip-On 150# Flanges - *B38SL*

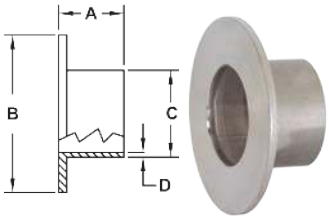


Tube OD	A	B	C	Number & Diameter Bolt Holes	Bolt Circle	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
1"	.375	4.250	1.063	4/.625	3.125	***B38SL-G100***	***B38SL-R100***
1½"	.375	5.000	1.563	4/.625	3.875	***B38SL-G150***	***B38SL-R150***
2"	.437	6.000	2.063	4/.750	4.750	***B38SL-G200***	***B38SL-R200***
2½"	.437	7.000	2.563	4/.750	5.500	***B38SL-G250***	***B38SL-R250***
3"	.500	7.500	3.063	4/.750	6.000	***B38SL-G300***	***B38SL-R300***
4"	.562	9.000	4.063	8/.750	7.500	***B38SL-G400***	***B38SL-R400***
6"	.562	11.000	6.063	8/.875	9.500	***B38SL-G600***	***B38SL-R600***
8"	.687	13.500	8.063	8/.875	11.750	***B38SL-G800***	***B38SL-R800***
10"	.687	16.000	10.063	12/1.000	14.250	***B38SL-G1000***	***B38SL-R1000***

G

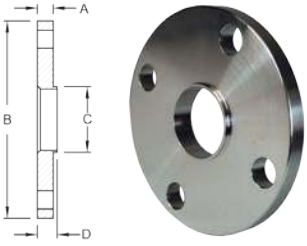
Unpolished Type A Stub Ends - *14VB*

- typically used with B38SL flanges



Tube OD	A	B	C	D	*316L Stainless Steel* Part Number
1"	1.625	2.000	1.000	.065	***14VB-R100***
1½"	1.750	2.875	1.500	.065	***14VB-R150***
2"	1.500	3.625	2.000	.065	***14VB-R200***
2½"	2.000	4.125	2.500	.065	***14VB-R250***
3"	2.250	5.000	3.000	.065	***14VB-R300***
4"	2.625	6.187	4.000	.084	***14VB-R400***
6"	3.000	8.500	6.000	.109	***14VB-R600***
8"	3.000	10.625	8.000	.120	***14VB-R800***
10"	3.500	12.450	10.000	.109	***14VB-R1000***

Unpolished Weld Neck Flanges - *B38W*



Tube OD	A	B	C	D	Number & Diameter Bolt Holes	Bolt Circle	*316L Stainless Steel* Part Number
1"	.375	4.250	1.000	.500	4/.625	3.125	***B38W-R100***
1½"	.375	5.000	1.500	.500	4/.625	3.875	***B38W-R150***
2"	.500	6.000	2.000	.625	4/.750	4.750	***B38W-R200***
2½"	.500	7.000	2.500	.625	4/.750	5.500	***B38W-R250***
3"	.500	7.500	3.000	.625	4/.750	6.000	***B38W-R300***
4"	.500	9.000	4.000	.625	8/.750	7.500	***B38W-R400***
6"	.500	11.000	6.000	.625	8/.875	9.500	***B38W-R600***
8"	.500	13.500	8.000	.625	8/.875	11.750	***B38W-R800***
10"	.500	16.000	10.000	.625	12/1.0	14.250	***B38W-R1000***

Other types of flanges are available call Dixon Sanitary for information

B14UB

Flange Gaskets

Feature:

- standard drop-ring type all 1/16" thick

Size	*Neoprene* Part Number
1"	***NG10***
1¼"	***NG15***
1½"	***NG20***
2"	***NG25***
2½"	***NG30***

Size	*Neoprene* Part Number
3"	***NG35***
4"	***NG40***
5"	***NG50***
6"	***NG60***
8"	***NG80***

Dixon Sanitary Euro Fittings

Product Specifications

Size range:
- 1" - 4" OD tube

Materials:
- G = 304 stainless steel
- R = 316 stainless steel

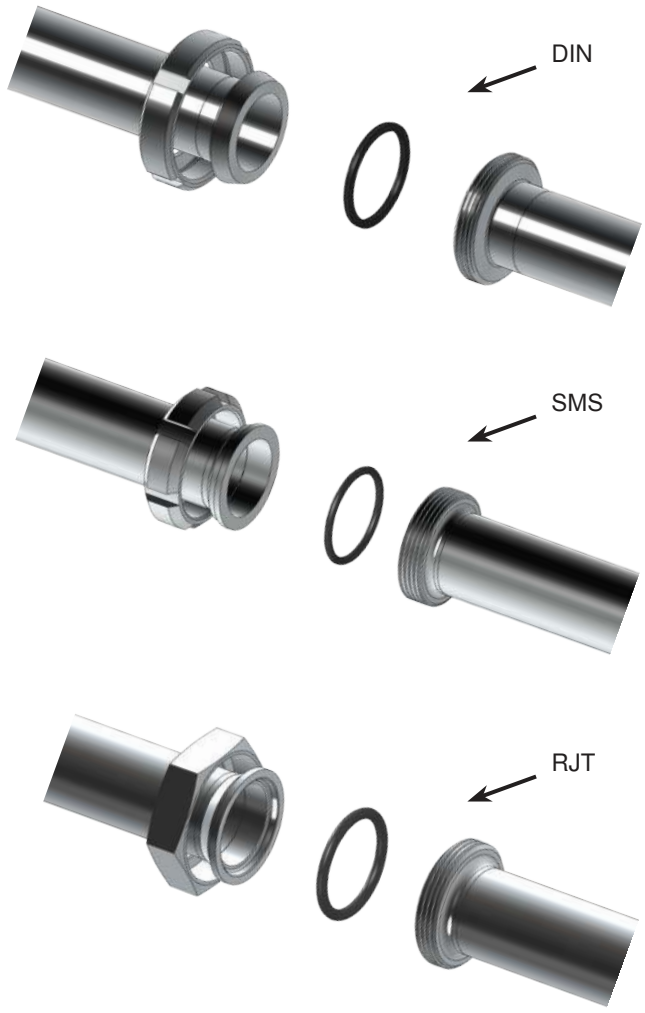
Finish:
- 3A sanitary finish ID and OD

Dimensions of stainless steel tube given in inches

Tube OD[1]	Nominal Wall Thickness (inches)	Gage Number
1"	.065	16
1½"	.065	16
2"	.065	16
2½"	.065	16
3"	.065	16
4"	.083	14

[1] metric tube size available special order only

European Connections



H

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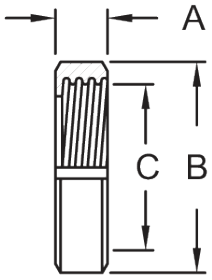
RJT fittings 90
Gaskets 91
Wrenches 89-90

Note: see pages 253-255 and 258 for fittings identification

DIN 11851

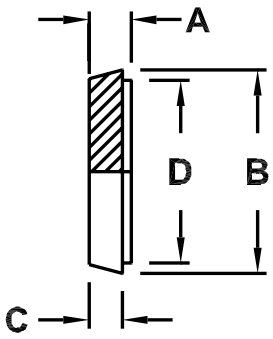
DIN Round Nuts - *13R*



Tube OD	DN Size	A	B	C	*304 Stainless Steel* Part Number
1"	25	.83	2.48	2.05	***13R-G100DIN***
1½"	40	.83	3.07	2.56	***13R-G150DIN***
2"	50	.87	3.62	3.07	***13R-G200DIN***
2½"	65	.98	4.41	3.74	***13R-G250DIN***
3"	80	1.14	5.00	4.33	***13R-G300DIN***
4"	100	1.22	5.83	5.12	***13R-G400DIN***

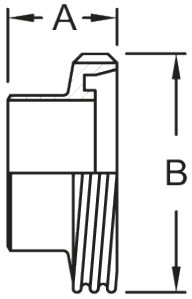
H

DIN Blank Caps - *16AMP*



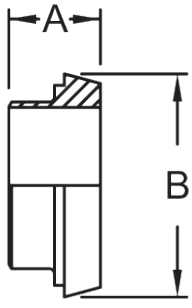
Tube OD	DN Size	A	B	C	D	*316 Stainless Steel* Part Number
1"	25	.51	1.73	.39	1.38	***16AMP-R100DIN***
1½"	40	.51	2.20	.39	1.89	***16AMP-R150DIN***
2"	50	.55	2.68	.43	2.40	***16AMP-R200DIN***
2½"	65	.63	3.39	.47	3.11	***16AMP-R250DIN***
3"	80	.63	3.94	.47	3.66	***16AMP-R300DIN***
4"	100	.79	4.76	.59	4.49	***16AMP-R400DIN***

DIN Welding Males - *15A*



Tube OD	DN Size	A	B	*316 Stainless Steel* Part Number
1"	25	1.14	2.04	***15A-R100DIN***
1½"	40	1.30	2.55	***15A-R150DIN***
2"	50	1.38	3.07	***15A-R200DIN***
2½"	65	1.57	3.74	***15A-R250DIN***
3"	80	1.77	4.31	***15A-R300DIN***
4"	100	2.13	5.12	***15A-R400DIN***

DIN Welding Liners - *14A*

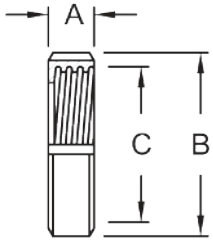


Tube OD	DN Size	A	B	*316 Stainless Steel* Part Number
1"	25	.87	1.73	***14A-R100DIN***
1½"	40	1.02	2.20	***14A-R150DIN***
2"	50	1.10	2.68	***14A-R200DIN***
2½"	65	1.26	3.39	***14A-R250DIN***
3"	80	1.46	3.94	***14A-R300DIN***
4"	100	1.73	4.76	***14A-R400DIN***

SMS

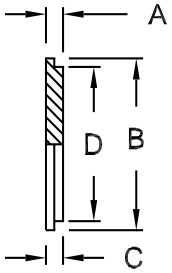
SMS Round Nuts - *13R*

Tube OD	DN Size	A	B	C	*304 Stainless Steel* Part Number
1"	25	.75	2.01	1.57	***13R-G100SMS***
1½"	38	.91	2.91	2.36	***13R-G150SMS***
2"	51	.94	3.31	2.76	***13R-G200SMS***
2½"	63.5	1.10	3.94	3.35	***13R-G250SMS***
3"	76	1.18	4.49	3.86	***13R-G300SMS***
4"	101.6	1.22	5.43	4.92	***13R-G400SMS***



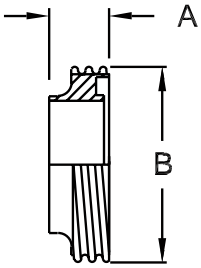
SMS Blank Caps - *16AMP*

Tube OD	DN Size	A	B	C	D	*316 Stainless Steel* Part Number
1"	25	.30	1.40	.14	1.25	***16AMP-R100SMS***
1½"	38	.31	2.20	.16	1.89	***16AMP-R150SMS***
2"	51	.35	2.56	.16	2.38	***16AMP-R200SMS***
2½"	63.5	.35	3.15	.16	2.89	***16AMP-R250SMS***
3"	76	.43	3.66	.20	3.41	***16AMP-R300SMS***
4"	101.6	.43	4.65	.23	4.43	***16AMP-R400SMS***



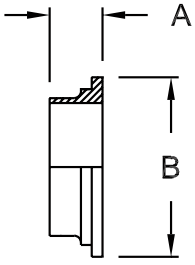
SMS Welding Males - *15A*

Tube OD	DN Size	A	B	*316 Stainless Steel* Part Number
1"	25	.75	1.57	***15A-R100SMS***
1½"	38	.91	2.36	***15A-R150SMS***
2"	51	.91	2.76	***15A-R200SMS***
2½"	63.5	1.06	3.35	***15A-R250SMS***
3"	76	1.06	3.86	***15A-R300SMS***
4"	101.6	1.18	4.92	***15A-R400SMS***



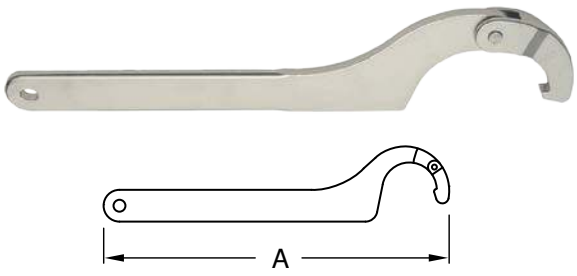
SMS Welding Liners - *14A*

Tube OD	DN Size	A	B	*316 Stainless Steel* Part Number
1"	25	.61	1.40	***14A-R100SMS***
1½"	38	.63	2.17	***14A-R150SMS***
2"	51	.67	2.56	***14A-R200SMS***
2½"	63.5	.67	3.16	***14A-R250SMS***
3"	76	.75	3.66	***14A-R300SMS***
4"	101.6	.75	4.65	***14A-R400SMS***



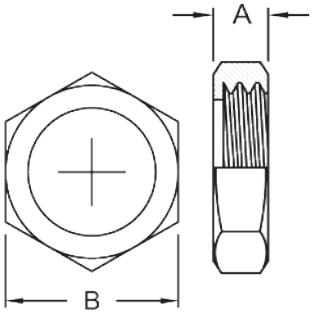
DIN and SMS Spanner Wrenches - *SP*

Used On Sizes	DIN Size	A	*Nickel Plated Steel* Part Number
1" - 1½"	25-40	9.75	***DIN-SMS-60/90SP***
2" - 4"	50-101.6	13.00	***DIN-SMS90/155SP***



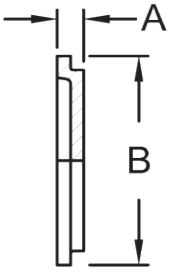
RJT BS:4825

RJT Hex Nuts - *13H*



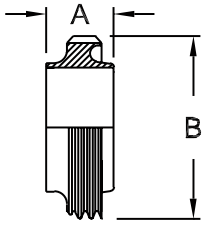
Tube OD	A	B	*304 Stainless Steel* Part Number
1"	.87	2.00	***13H-G100RJT***
1½"	.87	2.56	***13H-G150RJT***
2"	.87	3.12	***13H-G200RJT***
2½"	.87	3.62	***13H-G250RJT***
3"	.87	4.12	***13H-G300RJT***
4"	.87	5.12	***13H-G400RJT***

RJT Blank Caps - *13RBN*



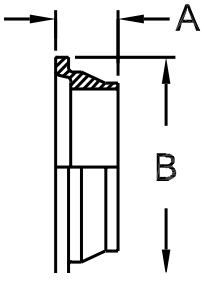
Tube OD	A	B	*304 Stainless Steel* Part Number
1"	.32	1.63	***13RBN-G100RJT***
1½"	.32	2.12	***13RBN-G150RJT***
2"	.32	2.62	***13RBN-G200RJT***
2½"	.32	3.12	***13RBN-G250RJT***
3"	.32	3.63	***13RBN-G300RJT***
4"	.32	4.63	***13RBN-G400RJT***

RJT Welding Males - *15A*



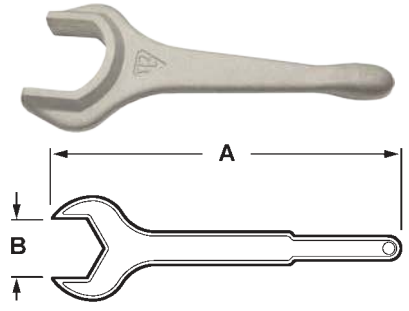
Tube OD	A	B	*316 Stainless Steel* Part Number
1"	1.06	1.80	***15A-R100RJT***
1½"	1.06	2.30	***15A-R150RJT***
2"	1.06	2.86	***15A-R200RJT***
2½"	1.06	3.36	***15A-R250RJT***
3"	1.06	3.86	***15A-R300RJT***
4"	1.06	4.86	***15A-R400RJT***

RJT Welding Liners - *14A*



Tube OD	A	B	*316 Stainless Steel* Part Number
1"	.77	1.63	***14A-R100RJT***
1½"	.77	2.13	***14A-R150RJT***
2"	.77	2.63	***14A-R200RJT***
2½"	.77	3.13	***14A-R250RJT***
3"	.77	3.63	***14A-R300RJT***
4"	.77	4.63	***14A-R400RJT***

RJT Spanner Wrenches - *SP*



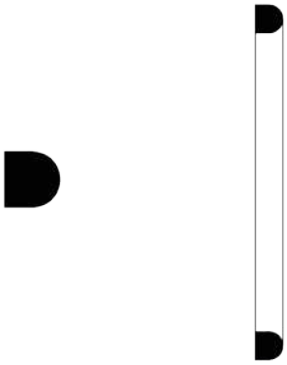
Size	A	B	*Aluminum* Part Number
1"	10.00	2.00	***RJT-100SP***
1½"	11.50	2.56	***RJT-150SP***
2"	12.00	3.12	***RJT-200SP***
2½"	13.50	3.62	***RJT-250SP***
3"	14.50	4.12	***RJT-300SP***
4"	17.50	5.12	***RJT-400SP***

European Gaskets

DIN Buna-N Euro Gaskets - *Black*

Features:
- color code: red dot
- meets 21CFR 177.2600

Tube OD	DN Size	ID	OD	Height	DIN 11851 Part Number
1"	25	1.18	1.57	.20	***40MP-U100DIN***
1½"	40	1.65	2.05	.20	***40MP-U150DIN***
2"	50	2.13	2.52	.20	***40MP-U200DIN***
2½"	65	2.80	3.19	.20	***40MP-U250DIN***
3"	80	3.35	3.74	.20	***40MP-U300DIN***
4"	100	4.09	4.49	.24	***40MP-U400DIN***

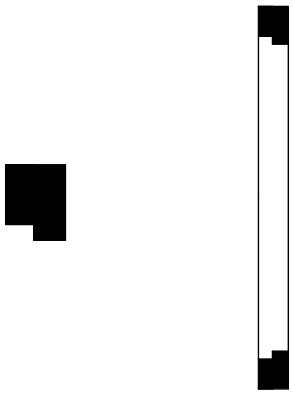


H

SMS Buna-N Euro Gaskets - *Black*

Features:
- color code: red dot
- meets 21CFR 177.2600

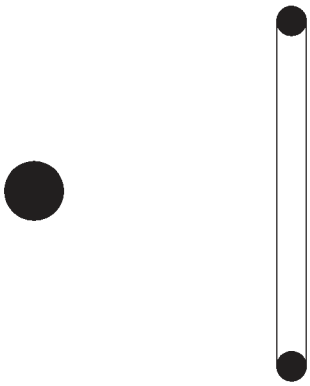
Tube OD	DN Size	ID	OD	L Style Part Number
1"	25	.98	1.26	***40MP-U100SMS***
1½"	38	1.49	1.89	***40MP-U150SMS***
2"	51	2.00	2.40	***40MP-U200SMS***
2½"	63.5	2.50	2.89	***40MP-U250SMS***
3"	76	2.99	3.39	***40MP-U300SMS***
4"	101.6	4.09	4.49	***40MP-U400SMS***



RJT Buna-N Euro Gaskets - *Black*

Features:
- color code: red dot
- meets 21CFR 177.2600

Tube OD	ID	Ø	Part Number
1"	1.06	.25	***40MP-U100RJT***
1½"	1.56	.25	***40MP-U150RJT***
2"	2.06	.25	***40MP-U200RJT***
2½"	2.56	.25	***40MP-U250RJT***
3"	3.06	.25	***40MP-U300RJT***
4"	4.06	.25	***40MP-U400RJT***



Note: refer to pages 236-238 for compatibility information

High Purity
BioPharm Line

Size range:
- ½" - 6" OD tube

Materials:
- 316L stainless steel

Finish:
- PL finish - SF1
- PM finish - SF4

Dimensions of stainless steel tube given in inches

Tube OD	Nominal Wall Thickness (inches)	Gage Number
½"	.065	16
¾"	.065	16
1"	.065	16
1½"	.065	16
2"	.065	16
2½"	.065	16
3"	.065	16
4"	.083	14
6"	.109	12

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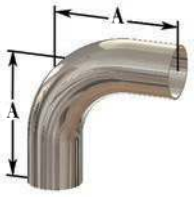
All fittings are manufactured to meet the latest edition of the ASME BPE International Standard, Bioprocessing Equipment.

316L stainless steel material and dimensions meet all orbital welding specifications with controlled sulphur.

High Purity
BioPharm Line

90° Weld Elbows - T2S

Size	A	PL Finish - SF1	PM Finish - SF4
½"	3.000	T2S-050PL	T2S-050PM
¾"	3.000	T2S-075PL	T2S-075PM
1"	3.000	T2S-100PL	T2S-100PM
1½"	3.750	T2S-150PL	T2S-150PM
2"	4.750	T2S-200PL	T2S-200PM
2½"	5.500	T2S-250PL	T2S-250PM
3"	6.250	T2S-300PL	T2S-300PM
4"	8.000	T2S-400PL	T2S-400PM
6"	11.500	T2S-600PL	T2S-600PM



BPE Table DT-4.1.1-1

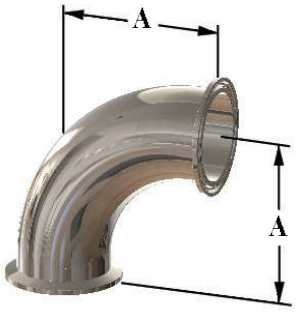
90° Clamp x Weld Elbows - T2CM

Size	A	B	PL Finish - SF1	PM Finish - SF4
½"	3.000	1.625	T2CM-050PL	T2CM-050PM
¾"	3.000	1.625	T2CM-075PL	T2CM-075PM
1"	3.000	2.000	T2CM-100PL	T2CM-100PM
1½"	3.750	2.750	T2CM-150PL	T2CM-150PM
2"	4.750	3.500	T2CM-200PL	T2CM-200PM
2½"	5.500	4.250	T2CM-250PL	T2CM-250PM
3"	6.250	5.000	T2CM-300PL	T2CM-300PM
4"	8.000	6.625	T2CM-400PL	T2CM-400PM
6"	11.500	10.500	T2CM-600PL	T2CM-600PM

BPE Table DT-4.1.1-2

90° Clamp x Clamp Elbows - T2CMP

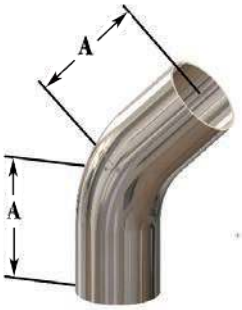
Size	A	PL Finish - SF1	PM Finish - SF4
½"	1.625	T2CMP-050PL	T2CMP-050PM
¾"	1.625	T2CMP-075PL	T2CMP-075PM
1"	2.000	T2CMP-100PL	T2CMP-100PM
1½"	2.750	T2CMP-150PL	T2CMP-150PM
2"	3.500	T2CMP-200PL	T2CMP-200PM
2½"	4.250	T2CMP-250PL	T2CMP-250PM
3"	5.000	T2CMP-300PL	T2CMP-300PM
4"	6.625	T2CMP-400PL	T2CMP-400PM
6"	10.500	T2CMP-600PL	T2CMP-600PM



BPE Table DT-4.1.1-3

45° Weld Elbows - T2KS

Size	A	PL Finish - SF1	PM Finish - SF4
½"	2.250	T2KS-050PL	T2KS-050PM
¾"	2.250	T2KS-075PL	T2KS-075PM
1"	2.250	T2KS-100PL	T2KS-100PM
1½"	2.500	T2KS-150PL	T2KS-150PM
2"	3.000	T2KS-200PL	T2KS-200PM
2½"	3.375	T2KS-250PL	T2KS-250PM
3"	3.625	T2KS-300PL	T2KS-300PM
4"	4.500	T2KS-400PL	T2KS-400PM
6"	6.250	T2KS-600PL	T2KS-600PM



BPE Table DT-4.1.1-4

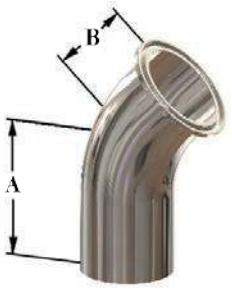
Note: Not all sizes and finishes are stocked

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

High Purity
BioPharm Line

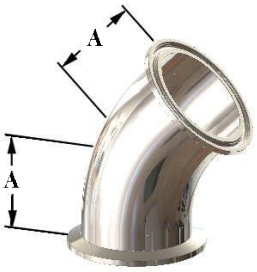
45° Clamp x Weld Elbows - T2KM



BPE Table DT-4.1.1-5

Size	A	B	PL Finish - SF1	PM Finish - SF4
½"	2.250	1.000	T2KM-050PL	T2KM-050PM
¾"	2.250	1.000	T2KM-075PL	T2KM-075PM
1"	2.250	1.125	T2KM-100PL	T2KM-100PM
1½"	2.500	1.438	T2KM-150PL	T2KM-150PM
2"	3.000	1.750	T2KM-200PL	T2KM-200PM
2½"	3.375	2.063	T2KM-250PL	T2KM-250PM
3"	3.625	2.380	T2KM-300PL	T2KM-300PM
4"	4.500	3.125	T2KM-400PL	T2KM-400PM
6"	6.250	5.250	T2KM-600PL	T2KM-600PM

45° Clamp x Clamp Elbows - T2KMP



BPE Table DT-4.1.1-6

Size	A	PL Finish - SF1	PM Finish - SF4
½"	1.000	T2KMP-050PL	T2KMP-050PM
¾"	1.000	T2KMP-075PL	T2KMP-075PM
1"	1.125	T2KMP-100PL	T2KMP-100PM
1½"	1.438	T2KMP-150PL	T2KMP-150PM
2"	1.750	T2KMP-200PL	T2KMP-200PM
2½"	2.063	T2KMP-250PL	T2KMP-250PM
3"	2.375	T2KMP-300PL	T2KMP-300PM
4"	3.125	T2KMP-400PL	T2KMP-400PM
6"	5.250	T2KMP-600PL	T2KMP-600PM

88° Weld Elbows - T2S88

BPE Table DT-4.1.1-1

Size	A	PL Finish - SF1	PM Finish - SF4
½"	3.065	T2S88-050PL	T2S88-050PM
¾"	3.065	T2S88-075PL	T2S88-075PM
1"	3.050	T2S88-100PL	T2S88-100PM
1½"	3.800	T2S88-150PL	T2S88-150PM
2"	4.810	T2S88-200PL	T2S88-200PM
2½"	5.560	T2S88-250PL	T2S88-250PM
3"	6.310	T2S88-300PL	T2S88-300PM
4"	8.070	T2S88-400PL	T2S88-400PM
6"	11.580	T2S88-600PL	T2S88-600PM

92° Weld Elbows - T2S92

BPE Table DT-4.1.1-1

Size	A	PL Finish - SF1	PM Finish - SF4
½"	2.930	T2S92-050PL	T2S92-050PM
¾"	2.930	T2S92-075PL	T2S92-075PM
1"	2.950	T2S92-100PL	T2S92-100PM
1½"	3.700	T2S92-150PL	T2S92-150PM
2"	4.690	T2S92-200PL	T2S92-200PM
2½"	5.440	T2S92-250PL	T2S92-250PM
3"	6.190	T2S92-300PL	T2S92-300PM
4"	7.930	T2S92-400PL	T2S92-400PM
6"	11.410	T2S92-600PL	T2S92-600PM

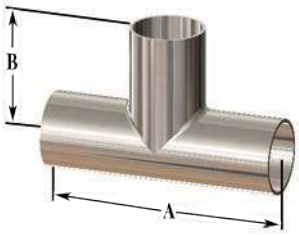
Note: Not all sizes and finishes are stocked

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

High Purity
BioPharm Line
Weld x Weld x Weld Tees - T7WWW

Size	A	B	PL Finish - SF1	PM Finish - SF4
½"	3.750	1.875	*T7WWW-050PL*	*T7WWW-050PM*
¾"	4.000	2.000	*T7WWW-075PL*	*T7WWW-075PM*
1"	4.250	2.125	*T7WWW-100PL*	*T7WWW-100PM*
1½"	4.750	2.375	*T7WWW-150PL*	*T7WWW-150PM*
2"	5.750	2.875	*T7WWW-200PL*	*T7WWW-200PM*
2½"	6.250	3.125	*T7WWW-250PL*	*T7WWW-250PM*
3"	6.750	3.375	*T7WWW-300PL*	*T7WWW-300PM*
4"	8.250	4.125	*T7WWW-400PL*	*T7WWW-400PM*
6"	11.250	5.625	*T7WWW-600PL*	*T7WWW-600PM*



BPE Table DT-4.1.2-1

Weld x Weld x Weld Reducing Tees - T7RWWW

Size	A	B	PL Finish - SF1	PM Finish - SF4
¾" x ½"	4.000	2.000	*T7RWWW-075050PL*	*T7RWWW-075050PM*
1" x ½"	4.250	2.125	*T7RWWW-100050PL*	*T7RWWW-100050PM*
1" x ¾"	4.250	2.125	*T7RWWW-100075PL*	*T7RWWW-100075PM*
1½" x ½"	4.750	2.375	*T7RWWW-150050PL*	*T7RWWW-150050PM*
1½" x ¾"	4.750	2.375	*T7RWWW-150075PL*	*T7RWWW-150075PM*
1½" x 1"	4.750	2.375	*T7RWWW-150100PL*	*T7RWWW-150100PM*
2" x ½"	5.750	2.625	*T7RWWW-200050PL*	*T7RWWW-200050PM*
2" x ¾"	5.750	2.625	*T7RWWW-200075PL*	*T7RWWW-200075PM*
2" x 1"	5.750	2.625	*T7RWWW-200100PL*	*T7RWWW-200100PM*
2" x 1½"	5.750	2.625	*T7RWWW-200150PL*	*T7RWWW-200150PM*
2½" x ¾"	6.250	2.875	*T7RWWW-250075PL*	*T7RWWW-250075PM*
2½" x 1"	6.250	2.875	*T7RWWW-250100PL*	*T7RWWW-250100PM*
2½" x 1½"	6.250	2.875	*T7RWWW-250150PL*	*T7RWWW-250150PM*
2½" x 2"	6.250	2.875	*T7RWWW-250200PL*	*T7RWWW-250200PM*
3" x ½"	6.750	3.125	*T7RWWW-300050PL*	*T7RWWW-300050PM*
3" x ¾"	6.750	3.125	*T7RWWW-300075PL*	*T7RWWW-300075PM*
3" x 1"	6.750	3.125	*T7RWWW-300100PL*	*T7RWWW-300100PM*
3" x 1½"	6.750	3.125	*T7RWWW-300150PL*	*T7RWWW-300150PM*
3" x 2"	6.750	3.125	*T7RWWW-300200PL*	*T7RWWW-300200PM*
3" x 2½"	6.750	3.125	*T7RWWW-300250PL*	*T7RWWW-300250PM*
4" x ½"	8.250	3.625	*T7RWWW-400050PL*	*T7RWWW-400050PM*
4" x ¾"	8.250	3.625	*T7RWWW-400075PL*	*T7RWWW-400075PM*
4" x 1"	8.250	3.625	*T7RWWW-400100PL*	*T7RWWW-400100PM*
4" x 1½"	8.250	3.625	*T7RWWW-400150PL*	*T7RWWW-400150PM*
4" x 2"	8.250	3.875	*T7RWWW-400200PL*	*T7RWWW-400200PM*
4" x 2½"	8.250	3.875	*T7RWWW-400250PL*	*T7RWWW-400250PM*
4" x 3"	8.250	3.875	*T7RWWW-400300PL*	*T7RWWW-400300PM*
6" x 3"	11.250	4.875	*T7RWWW-600300PL*	*T7RWWW-600300PM*
6" x 4"	11.250	5.125	*T7RWWW-600400PL*	*T7RWWW-600400PM*

BPE Table DT-4.1.2-6

Weld x Weld x Clamp Tees - T7WWM

Size	A	B	PL Finish - SF1	PM Finish - SF4
½"	3.750	2.250	*T7WWM-050PL*	*T7WWM-050PM*
¾"	4.000	2.375	*T7WWM-075PL*	*T7WWM-075PM*
1"	4.250	2.625	*T7WWM-100PL*	*T7WWM-100PM*
1½"	4.750	2.875	*T7WWM-150PL*	*T7WWM-150PM*
2"	5.750	3.375	*T7WWM-200PL*	*T7WWM-200PM*
2½"	6.250	3.625	*T7WWM-250PL*	*T7WWM-250PM*
3"	6.750	3.875	*T7WWM-300PL*	*T7WWM-300PM*
4"	8.250	4.750	*T7WWM-400PL*	*T7WWM-400PM*
6"	11.250	7.125	*T7WWM-600PL*	*T7WWM-600PM*

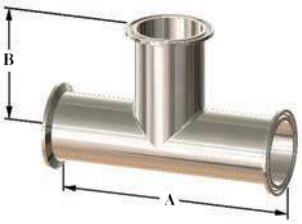
Note: Not all sizes and finishes are stocked

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

High Purity
BioPharm Line

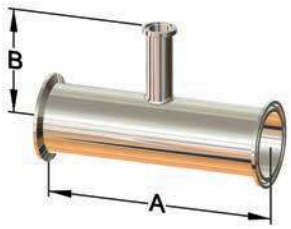
3A Clamp x Clamp x Clamp Tees - T7MP



BPE Table DT-4.1.2-4

Size	A	B	PL Finish - SF1	PM Finish - SF4
½"	4.500	2.250	T7MP-050PL	T7MP-050PM
¾"	4.750	2.375	T7MP-075PL	T7MP-075PM
1"	5.250	2.625	T7MP-100PL	T7MP-100PM
1½"	5.750	2.875	T7MP-150PL	T7MP-150PM
2"	6.750	3.375	T7MP-200PL	T7MP-200PM
2½"	7.250	3.625	T7MP-250PL	T7MP-250PM
3"	7.750	3.875	T7MP-300PL	T7MP-300PM
4"	9.500	4.750	T7MP-400PL	T7MP-400PM
6"	14.250	7.125	T7MP-600PL	T7MP-600PM

3A Clamp x Clamp x Clamp Reducing Tees - T7RMP



BPE Table DT-4.1.2-8

Size	A	B	PL Finish - SF1	PM Finish - SF4
¾" x ½"	5.000	2.500	T7RMP-075050PL	T7RMP-075050PM
1" x ½"	5.250	2.625	T7RMP-100050PL	T7RMP-100050PM
1" x ¾"	5.250	2.625	T7RMP-100075PL	T7RMP-100075PM
1½" x ½"	5.750	2.875	T7RMP-150050PL	T7RMP-150050PM
1½" x ¾"	5.750	2.875	T7RMP-150075PL	T7RMP-150075PM
1½" x 1"	5.750	2.875	T7RMP-150100PL	T7RMP-150100PM
2" x ½"	6.750	3.125	T7RMP-200050PL	T7RMP-200050PM
2" x ¾"	6.750	3.125	T7RMP-200075PL	T7RMP-200075PM
2" x 1"	6.750	3.125	T7RMP-200100PL	T7RMP-200100PM
2" x 1 ½"	6.750	3.125	T7RMP-200150PL	T7RMP-200150PM
2½" x ½"	7.250	3.375	T7RMP-250050PL	T7RMP-250050PM
2½" x ¾"	7.250	3.375	T7RMP-250075PL	T7RMP-250075PM
2½" x 1"	7.250	3.375	T7RMP-250100PL	T7RMP-250100PM
2½" x 1½"	7.250	3.375	T7RMP-250150PL	T7RMP-250150PM
2½" x 2"	7.250	3.375	T7RMP-250200PL	T7RMP-250200PM
3" x ½"	7.750	3.625	T7RMP-300050PL	T7RMP-300050PM
3" x ¾"	7.750	3.625	T7RMP-300075PL	T7RMP-300075PM
3" x 1"	7.750	3.625	T7RMP-300100PL	T7RMP-300100PM
3" x 1 ½"	7.750	3.625	T7RMP-300150PL	T7RMP-300150PM
3" x 2"	7.750	3.625	T7RMP-300200PL	T7RMP-300200PM
3" x 2 ½"	7.750	3.625	T7RMP-300250PL	T7RMP-300250PM
4" x ½"	9.500	4.125	T7RMP-400050PL	T7RMP-400050PM
4" x ¾"	9.500	4.125	T7RMP-400075PL	T7RMP-400075PM
4" x 1"	9.500	4.125	T7RMP-400100PL	T7RMP-400100PM
4" x 1 ½"	9.500	4.125	T7RMP-400150PL	T7RMP-400150PM
4" x 2"	9.500	4.125	T7RMP-400200PL	T7RMP-400200PM
4" x 2 ½"	9.500	4.125	T7RMP-400250PL	T7RMP-400250PM
4" x 3"	9.500	4.125	T7RMP-400300PL	T7RMP-400300PM
6" x 3"	14.250	5.375	T7RMP-600300PL	T7RMP-600300PM
6" x 4"	14.250	5.750	T7RMP-600400PL	T7RMP-600400PM

Note: Not all sizes and finishes are stocked

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

High Purity
BioPharm Line
Weld x Weld x Clamp Short Outlet Tees - T7WWMS

Size	A	B	PL Finish - SF1	PM Finish - SF4
½"	3.750	1.000	T7WWMS-050PL	T7WWMS-050PM
¾"	4.000	1.125	T7WWMS-075PL	T7WWMS-075PM
1"	4.250	1.125	T7WWMS-100PL	T7WWMS-100PM
1½"	4.750	1.375	T7WWMS-150PL	T7WWMS-150PM
2"	5.750	1.625	T7WWMS-200PL	T7WWMS-200PM
2½"	6.250	1.875	T7WWMS-250PL	T7WWMS-250PM
3"	6.750	2.125	T7WWMS-300PL	T7WWMS-300PM
4"	8.250	2.750	T7WWMS-400PL	T7WWMS-400PM
6"	11.250	4.625	T7WWMS-600PL	T7WWMS-600PM

BPE Table DT-4.1.2-2

Weld x Weld x Clamp Short Outlet Reducing Tees - T7RWWMS

Size	A	B	PL Finish - SF1	PM Finish - SF4
¾" x ½"	4.000	1.000	T7RWWMS075050PL	T7RWWMS075050PM
1" x ½"	4.250	1.125	T7RWWMS100050PL	T7RWWMS100050PM
1" x ¾"	4.250	1.125	T7RWWMS100075PL	T7RWWMS100075PM
1½" x ½"	4.750	1.375	T7RWWMS150050PL	T7RWWMS150050PM
1½" x ¾"	4.750	1.375	T7RWWMS150075PL	T7RWWMS150075PM
1½" x 1"	4.750	1.375	T7RWWMS150100PL	T7RWWMS150100PM
2" x 1/2"	5.750	1.625	T7RWWMS200050PL	T7RWWMS200050PM
2" x ¾"	5.750	1.625	T7RWWMS200075PL	T7RWWMS200075PM
2" x 1"	5.750	1.625	T7RWWMS200100PL	T7RWWMS200100PM
2" x 1½"	5.750	1.625	T7RWWMS200150PL	T7RWWMS200150PM
2½" x ½"	6.250	1.875	T7RWWMS250050PL	T7RWWMS250050PM
2½" x ¾"	6.250	1.875	T7RWWMS250075PL	T7RWWMS250075PM
2½" x 1"	6.250	1.875	T7RWWMS250100PL	T7RWWMS250100PM
2½" x 1½"	6.250	1.875	T7RWWMS250150PL	T7RWWMS250150PM
2½" x 2"	6.250	1.875	T7RWWMS250200PL	T7RWWMS250200PM
3" x ½"	6.750	2.125	T7RWWMS300050PL	T7RWWMS300050PM
3" x ¾"	6.750	2.125	T7RWWMS300075PL	T7RWWMS300075PM
3" x 1"	6.750	2.125	T7RWWMS300100PL	T7RWWMS300100PM
3" x 1½"	6.750	2.125	T7RWWMS300150PL	T7RWWMS300150PM
3" x 2"	6.750	2.125	T7RWWMS300200PL	T7RWWMS300200PM
3" x 2½"	6.750	2.125	T7RWWMS300250PL	T7RWWMS300250PM
4" x ½"	8.250	2.625	T7RWWMS400050PL	T7RWWMS400050PM
4" x ¾"	8.250	2.625	T7RWWMS400075PL	T7RWWMS400075PM
4" x 1"	8.250	2.625	T7RWWMS400100PL	T7RWWMS400100PM
4" x 1½"	8.250	2.625	T7RWWMS400150PL	T7RWWMS400150PM
4" x 2"	8.250	2.625	T7RWWMS400200PL	T7RWWMS400200PM
4" x 2½"	8.250	2.625	T7RWWMS400250PL	T7RWWMS400250PM
4" x 3"	8.250	2.625	T7RWWMS400300PL	T7RWWMS400300PM
6" x 3"	11.250	3.625	T7RWWMS600300PL	T7RWWMS600300PM
6" x 4"	11.250	3.750	T7RWWMS600400PL	T7RWWMS600400PM

BPE Table DT-4.1.2-7

Clamp x Clamp x Clamp Short Outlet Tees - T7MPS

Size	A	B	PL Finish - SF1	PM Finish - SF4
½"	4.500	1.000	T7MPS-050PL	T7MPS-050PM
¾"	4.750	1.125	T7MPS-075PL	T7MPS-075PM
1"	5.250	1.125	T7MPS-100PL	T7MPS-100PM
1½"	5.750	1.375	T7MPS-150PL	T7MPS-150PM
2"	6.750	1.625	T7MPS-200PL	T7MPS-200PM
2½"	7.250	1.875	T7MPS-250PL	T7MPS-250PM
3"	7.750	2.125	T7MPS-300PL	T7MPS-300PM
4"	9.500	2.750	T7MPS-400PL	T7MPS-400PM
6"	14.250	4.625	T7MPS-600PL	T7MPS-600PM

BPE Table DT-4.1.2-5

Note: Not all sizes and finishes are stocked

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

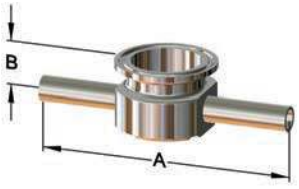
High Purity
BioPharm Line

3A Clamp x Clamp x Clamp Short Outlet Reducing Tees - T7RMPS

BPE Table DT-4.1.2-9

Size	A	B	PL Finish - SF1	PM Finish - SF4
¾" x ½"	5.000	1.000	T7RMPS-075050PL	T7RMPS-075050PM
1" x ½"	5.125	1.125	T7RMPS-100050PL	T7RMPS-100050PM
1" x ¾"	5.125	1.125	T7RMPS-100075PL	T7RMPS-100075PM
1½" x ½"	5.750	1.375	T7RMPS-150050PL	T7RMPS-150050PM
1½" x ¾"	5.750	1.375	T7RMPS-150075PL	T7RMPS-150075PM
1½" x 1"	5.750	1.375	T7RMPS-150100PL	T7RMPS-150100PM
2" x ½"	6.750	1.625	T7RMPS-200050PL	T7RMPS-200050PM
2" x ¾"	6.750	1.625	T7RMPS-200075PL	T7RMPS-200075PM
2" x 1"	6.750	1.625	T7RMPS-200100PL	T7RMPS-200100PM
2" x 1 ½"	6.750	1.625	T7RMPS-200150PL	T7RMPS-200150PM
2½" x ½"	7.250	1.875	T7RMPS-250050PL	T7RMPS-250050PM
2½" x ¾"	7.250	1.875	T7RMPS-250075PL	T7RMPS-250075PM
2½" x 1"	7.250	1.875	T7RMPS-250100PL	T7RMPS-250100PM
2½" x 1½"	7.250	1.875	T7RMPS-250150PL	T7RMPS-250150PM
2½" x 2"	7.250	1.875	T7RMPS-250200PL	T7RMPS-250200PM
3" x ½"	7.750	2.125	T7RMPS-300050PL	T7RMPS-300050PM
3" x ¾"	7.750	2.125	T7RMPS-300075PL	T7RMPS-300075PM
3" x 1"	7.750	2.125	T7RMPS-300100PL	T7RMPS-300100PM
3" x 1 ½"	7.750	2.125	T7RMPS-300150PL	T7RMPS-300150PM
3" x 2"	7.750	2.125	T7RMPS-300200PL	T7RMPS-300200PM
3" x 2 ½"	7.750	2.125	T7RMPS-300250PL	T7RMPS-300250PM
4" x ½"	9.500	2.625	T7RMPS-400050PL	T7RMPS-400050PM
4" x ¾"	9.500	2.625	T7RMPS-400075PL	T7RMPS-400075PM
4" x 1"	9.500	2.625	T7RMPS-400100PL	T7RMPS-400100PM
4" x 1 ½"	9.500	2.625	T7RMPS-400150PL	T7RMPS-400150PM
4" x 2"	9.500	2.625	T7RMPS-400200PL	T7RMPS-400200PM
4" x 2 ½"	9.500	2.625	T7RMPS-400250PL	T7RMPS-400250PM
4" x 3"	9.500	2.625	T7RMPS-400300PL	T7RMPS-400300PM
6" x 3"	14.250	3.625	T7RMPS-600300PL	T7RMPS-600300PM
6" x 4"	14.250	3.750	T7RMPS-600400PL	T7RMPS-600400PM

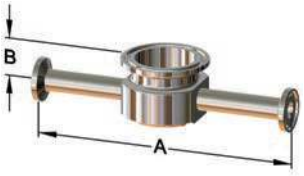
3A Weld x Weld x Clamp Instrument Tees - T7IWWMS



BPE Table DT-4.1.2-10

Size	A	B	PL Finish - SF1	PM Finish - SF4
½" x 1½"	5.000	.875	T7IWWMS050150PL	T7IWWMS050150PM
¾" x 1½"	5.000	1.000	T7IWWMS075150PL	T7IWWMS075150PM
1" x 1½"	5.000	1.125	T7IWWMS100150PL	T7IWWMS100150PM
½" x 2"	5.500	1.000	T7IWWMS050200PL	T7IWWMS050200PM
¾" x 2"	5.500	1.125	T7IWWMS075200PL	T7IWWMS075200PM
1" X 2"	5.500	1.250	T7IWWMS100200PL	T7IWWMS100200PM
1½" X 2"	5.500	1.500	T7IWWMS150200PL	T7IWWMS150200PM

3A Clamp x Clamp x Clamp Instrument Tees - T7IMPS



BPE Table DT-4.1.2-11

Size	A	B	PL Finish - SF1	PM Finish - SF4
½" x 1½"	6.000	.875	T7IMPS-050150PL	T7IMPS-050150PM
¾" x 1½"	6.000	1.000	T7IMPS-075150PL	T7IMPS-075150PM
1" x 1½"	6.000	1.125	T7IMPS-100150PL	T7IMPS-100150PM
½" x 2"	6.500	1.000	T7IMPS-050200PL	T7IMPS-050200PM
¾" x 2"	6.500	1.125	T7IMPS-075200PL	T7IMPS-075200PM
1" X 2"	6.500	1.250	T7IMPS-100200PL	T7IMPS-100200PM
1½" X 2"	6.500	1.500	T7IMPS150200PL	T7IMPS150200PM

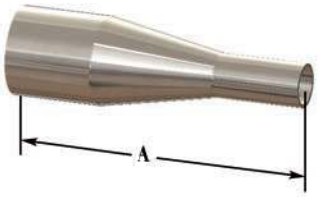
Note: Not all sizes and finishes are stocked

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

High Purity
BioPharm Line
Weld x Weld Concentric Reducers - T31W

Size	A	PL Finish - SF1	PM Finish - SF4
¾" x ½"	4.00	*T31W-075050PL*	*T31W-075050PM*
1" x ½"	4.50	*T31W-100050PL*	*T31W-100050PM*
1" x ¾"	4.00	*T31W-100075PL*	*T31W-100075PM*
1½" x ½"	5.50	*T31W-150050PL*	*T31W-150050PM*
1½" x ¾"	5.00	*T31W-150075PL*	*T31W-150075PM*
1½" x 1"	5.00	*T31W-150100PL*	*T31W-150100PM*
2" x ½"	7.75	*T31W-200050PL*	*T31W-200050PM*
2" x ¾"	7.25	*T31W-200075PL*	*T31W-200075PM*
2" x 1"	7.25	*T31W-200100PL*	*T31W-200100PM*
2" x 1½"	5.25	*T31W-200150PL*	*T31W-200150PM*
2½" x ½"	9.750	*T31W-250050PL*	*T31W-250050PM*
2½" x ¾"	9.250	*T31W-250075PL*	*T31W-250075PM*
2½" x 1"	9.250	*T31W-250100PL*	*T31W-250100PM*
2½" x 1 ½"	7.250	*T31W-250150PL*	*T31W-250150PM*
2½" x 2"	5.500	*T31W-250200PL*	*T31W-250200PM*
3" x 1"	11.250	*T31W-300100PL*	*T31W-300100PM*
3" x 1½"	9.250	*T31W-300150PL*	*T31W-300150PM*
3" x 2"	7.500	*T31W-300200PL*	*T31W-300200PM*
3" x 2½"	5.500	*T31W-300250PL*	*T31W-300250PM*
4" x 1"	15.500	*T31W-400100PL*	*T31W-400100PM*
4" x 1½"	13.500	*T31W-400150PL*	*T31W-400150PM*
4" x 2"	11.750	*T31W-400200PL*	*T31W-400200PM*
4" x 2½"	9.750	*T31W-400250PL*	*T31W-400250PM*
4" x 3"	7.750	*T31W-400300PL*	*T31W-400300PM*
6" x 3"	10.000	*T31W-600300PL*	*T31W-600300PM*
6" x 4"	10.000	*T31W-600400PL*	*T31W-600400PM*



BPE Table DT-4.1.3-1(a)

Clamp x Weld Concentric Reducers - T31M

Size	A	PL Finish - SF1	PM Finish - SF4
¾" x ½"	3.000	*T31M-075050PL*	*T31M-075050PM*
1" x ½"	3.500	*T31M-100050PL*	*T31M-100050PM*
1" x ¾"	3.000	*T31M-100075PL*	*T31M-100075PM*
1½" x ½"	4.500	*T31M-150050PL*	*T31M-150050PM*
1½" x ¾"	4.000	*T31M-150075PL*	*T31M-150075PM*
1½" x 1"	4.000	*T31M-150100PL*	*T31M-150100PM*
2" x ½"	6.500	*T31M-200050PL*	*T31M-200050PM*
2" x ¾"	6.000	*T31M-200075PL*	*T31M-200075PM*
2" x 1"	6.000	*T31M-200100PL*	*T31M-200100PM*
2" x 1½"	4.000	*T31M-200150PL*	*T31M-200150PM*
2½" x ½"	8.500	*T31M-250050PL*	*T31M-250050PM*
2½" x ¾"	8.000	*T31M-250075PL*	*T31M-250075PM*
2½" x 1"	8.000	*T31M-250100PL*	*T31M-250100PM*
2½" x 1 ½"	6.000	*T31M-250150PL*	*T31M-250150PM*
2½" x 2"	4.250	*T31M-250200PL*	*T31M-250200PM*
3" x 1"	10.000	*T31M-300100PL*	*T31M-300100PM*
3" x 1½"	8.000	*T31M-300150PL*	*T31M-300150PM*
3" x 2"	6.250	*T31M-300200PL*	*T31M-300200PM*
3" x 2½"	4.250	*T31M-300250PL*	*T31M-300250PM*
4" x 1"	14.125	*T31M-400100PL*	*T31M-400100PM*
4" x 1½"	12.125	*T31M-400150PL*	*T31M-400150PM*
4" x 2"	10.375	*T31M-400200PL*	*T31M-400200PM*
4" x 2½"	8.375	*T31M-400250PL*	*T31M-400250PM*
4" x 3"	6.375	*T31M-400300PL*	*T31M-400300PM*
6" x 3"	9.000	*T31M-600300PL*	*T31M-600300PM*
6" x 4"	9.000	*T31M-600400PL*	*T31M-600400PM*

BPE Table DT-4.1.3-2(a)

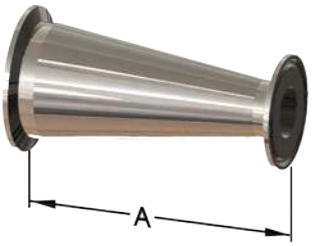
Note: Not all sizes and finishes are stocked

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

High Purity
BioPharm Line

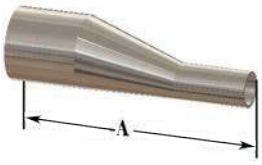
3A Clamp x Clamp Concentric Reducers - T3114MP



BPE Table DT-4.1.3-3(a)

Size	A	PL Finish - SF1	PM Finish - SF4
¾" x ½"	2.000	T3114MP075050PL	T3114MP075050PM
1" x ½"	2.500	T3114MP100050PL	T3114MP100050PM
1" x ¾"	2.000	T3114MP100075PL	T3114MP100075PM
1½" x ½"	3.500	T3114MP150050PL	T3114MP150050PM
1½" x ¾"	3.000	T3114MP150075PL	T3114MP150075PM
1½" x 1"	3.000	T3114MP150100PL	T3114MP150100PM
2" x ½"	5.500	T3114MP200050PL	T3114MP200050PM
2" x ¾"	5.000	T3114MP200075PL	T3114MP200075PM
2" x 1"	5.000	T3114MP200100PL	T3114MP200100PM
2" x 1½"	3.000	T3114MP200150PL	T3114MP200150PM
2½" x ½"	7.500	T3114MP250050PL	T3114MP250050PM
2½" x ¾"	7.000	T3114MP250075PL	T3114MP250075PM
2½" x 1"	7.000	T3114MP250100PL	T3114MP250100PM
2½" x 1 ½"	5.000	T3114MP250150PL	T3114MP250150PM
2½" x 2"	3.000	T3114MP250200PL	T3114MP250200PM
3" x 1"	9.000	T3114MP300100PL	T3114MP300100PM
3" x 1½"	7.000	T3114MP300150PL	T3114MP300150PM
3" x 2"	5.000	T3114MP300200PL	T3114MP300200PM
3" x 2½"	3.000	T3114MP300250PL	T3114MP300250PM
4" x 1"	13.125	T3114MP400100PL	T3114MP400100PM
4" x 1½"	11.125	T3114MP400150PL	T3114MP400150PM
4" x 2"	9.125	T3114MP400200PL	T3114MP400200PM
4" x 2½"	7.125	T3114MP400250PL	T3114MP400250PM
4" x 3"	5.125	T3114MP400300PL	T3114MP400300PM
6" x 3"	7.625	T3114MP600300PL	T3114MP600300PM
6" x 4"	7.625	T3114MP600400PL	T3114MP600400PM

3A Weld x Weld Eccentric Reducers - T32W



BPE Table DT-4.1.3-1(a)

Size	A	PL Finish - SF1	PM Finish - SF4
¾" x ½"	4.000	T32W-075050PL	T32W-075050PM
1" x ½"	4.500	T32W-100050PL	T32W-100050PM
1" x ¾"	4.000	T32W-100075PL	T32W-100075PM
1½" x ½"	5.500	T32W-150050PL	T32W-150050PM
1½" x ¾"	5.000	T32W-150075PL	T32W-150075PM
1½" x 1"	5.000	T32W-150100PL	T32W-150100PM
2" x ½"	7.750	T32W-200050PL	T32W-200050PM
2" x ¾"	7.250	T32W-200075PL	T32W-200075PM
2" x 1"	7.250	T32W-200100PL	T32W-200100PM
2" x 1½"	5.250	T32W-200150PL	T32W-200150PM
2½" x ½"	9.750	T32W-250050PL	T32W-250050PM
2½" x ¾"	9.250	T32W-250075PL	T32W-250075PM
2½" x 1"	9.250	T32W-250100PL	T32W-250100PM
2½" x 1 ½"	7.250	T32W-250150PL	T32W-250150PM
2½" x 2"	5.500	T32W-250200PL	T32W-250200PM
3" x 1"	11.250	T32W-300100PL	T32W-300100PM
3" x 1½"	9.250	T32W-300150PL	T32W-300150PM
3" x 2"	7.500	T32W-300200PL	T32W-300200PM
3" x 2½"	5.500	T32W-300250PL	T32W-300250PM
4" x 1"	15.500	T32W-400100PL	T32W-400100PM
4" x 1½"	13.500	T32W-400150PL	T32W-400150PM
4" x 2"	11.750	T32W-400200PL	T32W-400200PM
4" x 2½"	9.750	T32W-400250PL	T32W-400250PM
4" x 3"	7.750	T32W-400300PL	T32W-400300PM
6" x 3"	9.750	T32W-600300PL	T32W-600300PM
6" x 4"	10.000	T32W-600400PL	T32W-600400PM

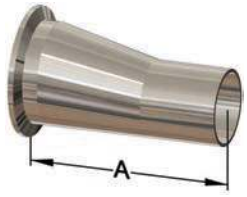
Note: Not all sizes and finishes are stocked

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

High Purity
BioPharm Line
Clamp x Weld Eccentric Reducers - T32M

Size	A	PL Finish - SF1	PM Finish - SF4
¾" x ½"	3.000	T32M-075050PL	T32M-075050PM
1" x ½"	3.500	T32M-100050PL	T32M-100050PM
1" x ¾"	3.000	T32M-100075PL	T32M-100075PM
1½" x ½"	4.500	T32M-150050PL	T32M-150050PM
1½" x ¾"	4.000	T32M-150075PL	T32M-150075PM
1½" x 1"	4.000	T32M-150100PL	T32M-150100PM
2" x ½"	6.500	T32M-200050PL	T32M-200050PM
2" x ¾"	6.000	T32M-200075PL	T32M-200075PM
2" x 1"	6.000	T32M-200100PL	T32M-200100PM
2" x 1½"	4.000	T32M-200150PL	T32M-200150PM
2½" x ½"	8.500	T32M-250050PL	T32M-250050PM
2½" x ¾"	8.000	T32M-250075PL	T32M-250075PM
2½" x 1"	8.000	T32M-250100PL	T32M-250100PM
2½" x 1 ½"	6.000	T32M-250150PL	T32M-250150PM
2½" x 2"	4.250	T32M-250200PL	T32M-250200PM
3" x 1"	10.000	T32M-300100PL	T32M-300100PM
3" x 1½"	8.000	T32M-300150PL	T32M-300150PM
3" x 2"	6.250	T32M-300200PL	T32M-300200PM
3" x 2½"	4.250	T32M-300250PL	T32M-300250PM
4" x 1"	14.125	T32M-400100PL	T32M-400100PM
4" x 1½"	12.125	T32M-400150PL	T32M-400150PM
4" x 2"	10.375	T32M-400200PL	T32M-400200PM
4" x 2½"	8.375	T32M-400250PL	T32M-400250PM
4" x 3"	6.375	T32M-400300PL	T32M-400300PM
6" x 3"	8.750	T32M-600300PL	T32M-600300PM
6" x 4"	9.000	T32M-600400PL	T32M-600400PM



BPE Table DT-4.1.3-2(a)

Clamp x Clamp Eccentric Reducers - T3214MP

Size	A	PL Finish - SF1	PM Finish - SF4
¾" x ½"	2.000	T3214MP075050PL	T3214MP075050PM
1" x ½"	2.500	T3214MP100050PL	T3214MP100050PM
1" x ¾"	2.000	T3214MP100075PL	T3214MP100075PM
1½" x ½"	3.500	T3214MP150050PL	T3214MP150050PM
1½" x ¾"	3.000	T3214MP150075PL	T3214MP150075PM
1½" x 1"	3.000	T3214MP150100PL	T3214MP150100PM
2" x ½"	5.500	T3214MP200050PL	T3214MP200050PM
2" x ¾"	5.000	T3214MP200075PL	T3214MP200075PM
2" x 1"	5.000	T3214MP200100PL	T3214MP200100PM
2" x 1½"	3.000	T3214MP200150PL	T3214MP200150PM
2½" x ½"	7.500	T3214MP250050PL	T3214MP250050PM
2½" x ¾"	7.000	T3214MP250075PL	T3214MP250075PM
2½" x 1"	7.000	T3214MP250100PL	T3214MP250100PM
2½" x 1 ½"	5.000	T3214MP250150PL	T3214MP250150PM
2½" x 2"	3.000	T3214MP250200PL	T3214MP250200PM
3" x 1"	9.000	T3214MP300100PL	T3214MP300100PM
3" x 1½"	7.000	T3214MP300150PL	T3214MP300150PM
3" x 2"	5.000	T3214MP300200PL	T3214MP300200PM
3" x 2½"	3.000	T3214MP300250PL	T3214MP300250PM
4" x 1"	13.125	T3214MP400100PL	T3214MP400100PM
4" x 1½"	11.125	T3214MP400150PL	T3214MP400150PM
4" x 2"	9.125	T3214MP400200PL	T3214MP400200PM
4" x 2½"	7.125	T3214MP400250PL	T3214MP400250PM
4" x 3"	5.125	T3214MP400300PL	T3214MP400300PM
6" x 3"	7.500	T3214MP600300PL	T3214MP600300PM
6" x 4"	7.625	T3214MP600400PL	T3214MP600400PM

BPE Table DT-4.1.3-3(a)

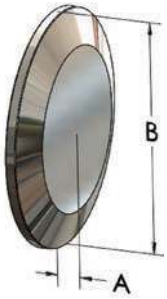
Note: Not all sizes and finishes are stocked

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

High Purity
BioPharm Line

Solid End Caps - T16AMP



BPE Table DT-4.1.5-2

Size	A	B	PL Finish - SF1	PM Finish - SF4
½" - ¾"	0.190	1.000	*T16AMP-050075PL*	*T16AMP-050075PM*
1" - 1½"	0.250	1.990	*T16AMP-100150PL*	*T16AMP-100150PM*
2"	0.250	2.520	*T16AMP-200PL*	*T16AMP-200PM*
2½"	0.250	3.050	*T16AMP-250PL*	*T16AMP-250PM*
3"	0.250	3.580	*T16AMP-300PL*	*T16AMP-300PM*
4"	0.310	4.690	*T16AMP-400PL*	*T16AMP-400PM*
6"	0.440	6.560	*T16AMP-600PL*	*T16AMP-600PM*

Auto Weld Ferrules - TL14AM7

BPE Table DT-4.1.4-1

Size	A	PL Finish - SF1	PM Finish - SF4
½"	1.750	*TL14AM7-050PL*	*TL14AM7-050PM*
¾"	1.750	*TL14AM7-075PL*	*TL14AM7-075PM*
1"	1.750	*TL14AM7-100PL*	*TL14AM7-100PM*
1½"	1.750	*TL14AM7-150PL*	*TL14AM7-150PM*
2"	2.250	*TL14AM7-200PL*	*TL14AM7-200PM*
2½"	2.250	*TL14AM7-250PL*	*TL14AM7-250PM*
3"	2.250	*TL14AM7-300PL*	*TL14AM7-300PM*
4"	2.250	*TL14AM7-400PL*	*TL14AM7-400PM*
6"	3.000	*TL14AM7-600PL*	*TL14AM7-600PM*

Weld Caps - T16W

BPE Table DT-4.1.5-1

Size	A	PL Finish - SF1	PM Finish - SF4
½"	1.500	*T16W-050PL*	*T16W-050PM*
¾"	1.500	*T16W-075PL*	*T16W-075PM*
1"	1.500	*T16W-100PL*	*T16W-100PM*
1½"	1.500	*T16W-150PL*	*T16W-150PM*
2"	1.500	*T16W-200PL*	*T16W-200PM*
2½"	1.500	*T16W-250PL*	*T16W-250PM*
3"	1.500	*T16W-300PL*	*T16W-300PM*
4"	2.000	*T16W-400PL*	*T16W-400PM*
6"	2.500	*T16W-600PL*	*T16W-600PM*

Note: Not all sizes and finishes are stocked

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished

High Purity
BioPharm Line

Clamp Adapter x Male NPT - T21MP

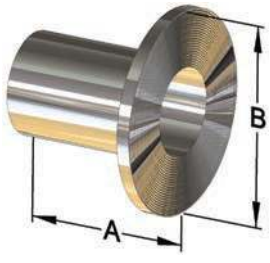
Size	A	PL Finish - SF1
½" x ¼"	2.000	*T21MP-050025PL*
½" x ⅜"	2.000	*T21MP-050375PL*
½"	1.625	*T21MP-050PL*
½" x ¾"	2.000	*T21MP-050075PL*
¾" x ¼"	2.000	*T21MP-075025PL*
¾" x ⅜"	2.000	*T21MP-075375PL*
¾" x ½"	2.000	*T21MP-075050PL*
¾"	2.250	*T21MP-075PL*
1"	2.250	*T21MP-100PL*
1½"	2.250	*T21MP-150PL*
2"	2.638	*T21MP-200PL*
2½"	2.875	*T21MP-250PL*
3"	3.070	*T21MP-300PL*
4"	3.155	*T21MP-400PL*

Clamp Adapter x Female NPT - T22MP

Size	A	PL Finish - SF1
½" x ⅛"	1.250	*T22MP-050125PL*
½" x ¼"	1.500	*T22MP-050025PL*
½" x ⅜"	1.500	*T22MP-050375PL*
½"	1.500	*T22MP-050PL*
½" x ¾"	1.500	*T22MP-050075PL*
¾" x ¼"	1.500	*T22MP-075025PL*
¾" x ⅜"	1.500	*T22MP-075375PL*
¾" x ½"	1.625	*T22MP-075050PL*
¾"	1.625	*T22MP-075PL*
1"	1.625	*T22MP-100PL*
1½"	2.250	*T22MP-150PL*
2"	2.406	*T22MP-200PL*
2½"	2.187	*T22MP-250PL*
3"	2.187	*T22MP-300PL*
4"	2.625	*T22MP-400PL*

Stub Adapters - T14VB

Size	A	B	PL Finish - SF1
½"	2.000	1.625	*T14VB-050PL*
¾"	2.000	1.687	*T14VB-075PL*
1"	2.000	2.000	*T14VB-100PL*
1½"	2.000	2.875	*T14VB-150PL*
2"	2.500	2.625	*T14VB-200PL*
2½"	2.500	4.125	*T14VB-250PL*
3"	2.500	5.000	*T14VB-300PL*
4"	2.500	6.187	*T14VB-400PL*
6"	3.000	8.500	*T14VB-600PL*

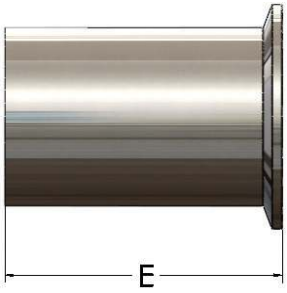


All Fittings Comply with ASME BPE-2012 - Table DT-3-1
Final Tolerances for
Mechanically Polished Fittings and Process Components (inches)

Nominal Size	OD	Wall Thickness	Squareness Face to Tangent (B)	Off Angle (O)	Tolerance on End-to-End (E) and Center-to-End (A)	Off Plane (P)
½"	±0.005	+0.005/-0.008	0.005	0.014	0.050	0.030
¾"	±0.005	+0.005/-0.008	0.005	0.018	0.050	0.030
1"	±0.005	+0.005/-0.008	0.008	0.025	0.050	0.030
1½"	±0.008	+0.005/-0.008	0.008	0.034	0.050	0.050
2"	±0.008	+0.005/-0.008	0.008	0.043	0.050	0.050
2½"	±0.010	+0.005/-0.008	0.010	0.054	0.050	0.050
3"	±0.010	+0.005/-0.008	0.016	0.068	0.050	0.050
4"	±0.015	+0.008/-0.010	0.016	0.086	0.050	0.060

Squareness to Face

Off Angle



End-to-End

Off Plane

Off Angle

Center-to-End

Technical Specifications

Weld End chemical analysis (%) per ASME BPE 2012 Table MM - 2.1-1 and MM - 5.1.1

Element	C	Mn	P	S	Si	Cr	Ni	Mo
minimum	---	---	---	0.005	---	16.00	10.00	2.00
maximum	0.030	2.00	0.045	0.017	1.00	18.00	15.00	3.00

BPE Surface Finish Requirements (Table SF-2.4-1)

Surface designation	Mechanically Polished ID and OD R_a Maximum		Dixon Sanitary High Purity code
	ID µ-in.	OD µ-in	
SF0	no finish requirement	no finish requirement	
SF1	20	32	***PL***
SF2	25	32	
SF3	30	32	

Surface designation	Mechanically Polished OD and Electropolished ID R_a Maximum		
	ID µ-in.	OD µ-in	
SF4	15	32	***PM***
SF5	20	32	
SF6	25	32	

Acceptance Criteria for Stainless Steel Mechanically Polished Product Contact Surface Finishes

Anomaly or Indication	Acceptance Criteria
Pits	If diameter <0.020" and bottom is shiny [Notes (2) and (4)]. Pits <0.003" Diameter is irrelevant and acceptable.
Cluster of pits	No more than 4 pits per each ½" x ½" inspection window. The cumulative total of all relevant pits shall not exceed 0.040".
Dents	None accepted [note (1)]
Finishing marks	If R_a maximum is met
Welds	As welded shall meet requirements of MJ-6. If welds are finished, then shall be smooth and blended.
Nicks	None accepted
Scratches	For tubing, if cumulative length is <12.0" per 20' tube length or prorated and if depth is <0.003" For fittings, valves and other process components, if length is <0.25" cumulatively, depth <0.003" and R_a max. is met. For vessels, if length <0.50" at 0.003 depth and if <3 per inspection window [Note (3)].
Surface cracks	None accepted
Surface inclusions	If R_a max. is met
Surface residuals	None accepted, visual inspection
Surface roughness (R_a)	See Table SF-3 (see above)
Weld slag	For tubing, up to 3 per 20' length or prorated, if <75% of the width of the weld bead. For fittings, valves, vessels and other process components, none accepted (as welded shall meet the requirements of MJ-6 and Table MJ-3).
Porosity	None open to the surface

Notes:
1. For vessels, dents in the area covered by and resulting from welding dimple heat transfer jackets are acceptable.
2. Black bottom pit of any depth is not acceptable.
3. An inspection window is defined as an area 4" x 4".
4. Pits in super-austenitic and nickel alloys may exceed this value. Acceptance criteria for pit size shall be established by agreement between owner/user and manufacturer. All other pit criteria remain the same.

Packaging

Product markings per ASME BPE 2012 DT-10.1

- Dixon Sanitary
- job number
- 316L stainless steel
- Dixon Sanitary part number
- heat number(s)
- surface finish code
- ASME BPE

Per the specification, the size of the fitting may limit the space available for markings. When that occurs, the markings starting at the bottom of the list are not applied. The Dixon Sanitary part number will describe the part configuration and size.

MTR certifications are included inside the resealable bag with each fitting. The MTRs are traceable through the Job Number found on each fitting. All fittings are capped to prevent damage and contamination. For easy identification each finish will have a different color cap.

Finish [1]	Color Caps
PL/SF1	blue
PM/SF4	white

[1] see page 106 for finish standards

Dixon Sanitary High Purity

BioPharm Fittings

316L (S31603) Stainless Steel Material Test Report

Job Number	AB242

Bradford™ Part Number	Description	Size	Surface finish
T7RWWW-100075PL	Automatic Weld Reducing Tee per Table DT-4.1.2-6	1"x¾"	SF1 (20Ra)

Chemical analysis (%) per ASME BPE 2012 Table MM-2.1-1 and Section MM-5.1.1

Item	Heat number	C	Mn	P	S	Si	Cr	Ni	Mo	N
					0.005		16.00	10.00	2.00	
		0.030	2.00	0.045	0.017	1.00	18.00	15.00	3.00	0.11
M	952662	0.018	1.53	0.032	0.012	0.42	16.80	10.10	2.03	0.06
B	H4V0	0.019	1.46	0.035	0.015	0.25	16.70	10.10	2.05	0.05

Mechanical Test Results

Item	Yield Strength (0.2%), MPa	Tensile Strength, MPa	Elongation, %	Hardness, HRB	Specification
	170 minimum	485 minimum	35 minimum	90 maximum	
M	330	600	62.0	84	ASTM A270/A270M S2
B	387	621	50.0	85	ASTM A270/A270M S2

Product of Thailand

We certify that the above is a true copy of the test results issued by the material supplier. This MTR conforms to EN10204-3.1. All fittings supplied by Dixon Sanitary conform to the requirements of the European Union Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).

James G. LeClair
VP / Division Manager

Dixon Sanitary
N25 W23040 Paul Rd.
Pewaukee, WI 53072
USA
800-789-1718

DIXON
The Right Connection®

Dixon Sanitary Tubing

Product Specifications

Size range:
- ½" - 6" OD tube

Materials:
- G = 304 stainless steel
- R = 316L stainless steel

Finish:
- 3A sanitary finish ID and OD; Typical 20Ra ID, 32Ra OD
- unpolished
- BPE finishes are available

Notes:
- tubing available in 20' lengths only
- surcharges change MONTHLY
- broken box charges will apply
- tubing only ships via truck
- call Dixon Sanitary for pricing and full freight allowance
- other sizes may be available, call Dixon Sanitary for information
- tubing is NOT returnable

Tube OD	Nominal Wall Thickness (inches)	Gage Number	Wt. Pounds per Ft.
½"	.065	16	0.31
¾"	.065	16	0.49
1"	.065	16	0.67
1½"	.065	16	1.02
2"	.065	16	1.36
2½"	.065	16	1.71
3"	.065	16	2.06
4"	.083	14	3.45
6"	.109	12	6.92

J

Operating Pressures

304 Stainless Steel Tube

Tube OD Size	Nominal Wall Thickness (inches)	Pressure (**PSI**)		
		working	*yield*	*burst*
½"	.065	4,870	7,800	19,500
¾"	.065	3,250	5,200	13,000
1"	.065	2,440	3,900	9,800
1½"	.065	1,630	2,600	6,500
2"	.065	1,220	2,000	4,900
2½"	.065	980	1,600	3,900
3"	.065	810	1,300	3,300
4"	.083	780	1,200	3,100
6"	.109	680	1,090	2,720

The pressures shown in the table above are calculated using Barlow's Formula and the following properties:
- material: 304
- yield strength (**PSI**): **30,000**
- tensile strength (**PSI**): **75,000**

Working Pressure = ¼ of Burst Pressure, these calculate from **-20°F** to **100°F**.

316L Stainless Steel Tube

Tube OD Size	Nominal Wall Thickness (inches)	Pressure (**PSI**)		
		working	*yield*	*burst*
½"	.065	3,250	6,500	19,500
¾"	.065	2,167	4,330	13,000
1"	.065	2,280	3,300	9,100
1½"	.065	1,520	2,200	6,100
2"	.065	1,140	1,600	4,600
2½"	.065	910	1,300	3,600
3"	.065	760	1,100	3,000
4"	.083	730	1,000	2,900
6"	.109	635	900	2,540

The pressures shown in the table above are calculated using Barlow's Formula and the following properties:
- material: 316L
- yield strength (**PSI**): **25,000**
- tensile strength (**PSI**): **70,000**

Working Pressure = ¼ of Burst Pressure, these calculate from **-20°F** to **100°F**.

Pipe size and Tube OD size materials are not interchangable

Index

A270 tubing 108
A269 tubing 108

ASTM-A270 Polished ID and OD Tubing

Polished ID and OD - *ASTM-A270*

Size	Packaged	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
½"	100'	---	***A270-R50P***
¾"	100'	---	***A270-R75P***
1"	280'	***A270-G100P***	***A270-R100P***
1½"	340'	***A270-G150P***	***A270-R150P***
2"	340'	***A270-G200P***	***A270-R200P***
2½"	220'	***A270-G250P***	***A270-R250P***
3"	220'	***A270-G300P***	***A270-R300P***
4"	100'	***A270-G400P***	***A270-R400P***
6"	40'	***A270-G600P***	***A270-R600P***

Tolerances for Welded Tubing - *ASTM-A270*

Tube OD Size	Nominal Wall Thickness (inches)	OD Tolerance	Wall Thickness Tolerance	Ovality Allowance
½"	.065	+ .002 / - .008	± .008	± .010
¾"	.065	+ .002 / - .008	± .008	± .010
1"	.065	+ .002 / - .008	± .008	± .010
1½"	.065	+ .002 / - .008	± .008	± .020
2"	.065	+ .002 / - .011	± .008	± .020
2½"	.065	+ .002 / - .011	± .008	± .020
3"	.065	+ .003 / - .012	± .008	± .020
4"	.083	+ .003 / - .015	± .010	± .020
6"	.109	+ .030 / - .030	± .014	± .030

Features:
- ASTM-A270-02 welded austenitic stainless steel sanitary tubing

J

ASTM-A269 Unpolished ID and OD Tubing

Unpolished ID and OD - *ASTM-A269*

Size	Packaged	*304 Stainless Steel* Part Number	*316 Stainless Steel* Part Number
1"	280'	***A269-G100U***	***A269-R100U***
1½"	340'	***A269-G150U***	***A269-R150U***
2"	340'	***A269-G200U***	***A269-R200U***
2½"	220'	***A269-G250U***	***A269-R250U***
3"	220'	***A269-G300U***	***A269-R300U***
4"	100'	***A269-G400U***	***A269-R400U***
6"	40'	***A269-G600U***	***A269-R600U***

Tolerances for Welded Tubing - *ASTM-A269*

Tube OD Size	Nominal Wall Thickness (inches)	OD Tolerance	Wall Thickness Tolerance	Ovality Allowance
1"	.065	± .005	± .006	± .010
1½"	.065	± .010	± .006	± .020
2"	.065	± .010	± .006	± .020
2½"	.065	± .010	± .006	± .020
3"	.065	± .010	± .006	± .020
4"	.083	± .015	± .008	± .030
6"	.109	± .030	± .010	± .030

Features:
- ASTM-A269-02 welded austenitic stainless steel sanitary tubing for general service
- other sizes and materials available, call Dixon Sanitary for information

Dixon Sanitary Tube Hangers

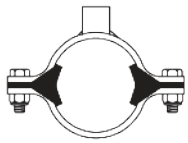
Product Specifications

Size range:
- ½" - 12" OD tube

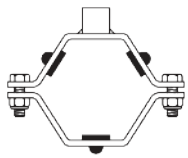
Materials:
- hanger base: 304 stainless steel
- hanger inserts: nitrile..... rated to 230°F
  ABS (sleeve)..... rated to 230°F
  FKM..... rated to 400°F
  Polypropylene ..... rated to 212°F
  Polysulfone..... rated to 325°F
  Silicone..... rated to 320°F

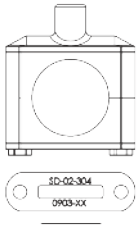
Tube OD	Nominal Wall Thickness (inches)	Gage Number
½"	.065	16
¾"	.065	16
1"	.065	16
1½"	.065	16
2"	.065	16
2½"	.065	16
3"	.065	16
4"	.083	14
5"	.109	12
6"	.109	12
8"	.120	10
10"	.109	12
12"	.120	10

Complete Support

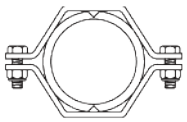

round hanger with coupler

hex hanger


hex hanger with coupler



block hanger


hex hanger with sleeve

K

Support Recommendations

Lines are not to be rigidly anchored to equipment. Lines must be allowed to float. Temperatures cause expansion and contraction and if mounted incorrectly will cause distortion and possibly leakage.

Proper Installation:
- straight sections need support every 10 feet
- each side of every valve (as close as possible to the connection) needs support
- support each change of directions

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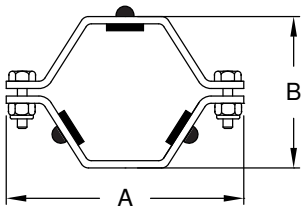
Hex Hangers..... 110-112
Grommets.....111
Nuts and Bolts 111
Sleeves..... 112
Round Hangers 112
Block Hangers 113-114
Wall Flanges..... 114

Tube Hex Hangers

Hex Hanger with Nitrile Grommets - *B24RG*

Features:

- Nitrile grommets maximum temperature: **230°F**
- All hex and round style hangers can be equipped with the following coupler options:
  - 3/8 NPT
  - all thread: 3/8-16 or 1/2-13

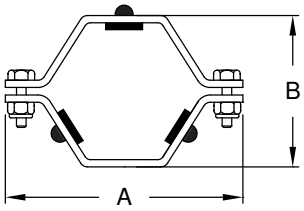


Tube OD	A	B	*304 Stainless Steel* Part Number
½" - ¾"	3.425	1.450	***B24RG-G75***
1"	3.425	1.450	***B24RG-G100***
1½"	4.000	2.125	***B24RG-G150***
2"	4.500	2.500	***B24RG-G200***
2½"	4.950	3.125	***B24RG-G250***
3"	5.500	3.750	***B24RG-G300***
4"	6.950	4.750	***B24RG-G400***
5"	8.000	5.625	***B24RG-G500***
6"	9.250	6.625	***B24RG-G600***
8"	11.500	8.625	***B24RG-G800***
10"	14.500	10.500	***B24RG-G1000***
12"	16.750	12.625	***B24RG-G1200***

Hex Hanger with FKM Grommets - *B24RGSFY*

Features:

- FKM grommets maximum temperature: **392°F**
- All hex and round style hangers can be equipped with the following coupler options:
  - 3/8 NPT
  - all thread: 3/8-16 or 1/2-13

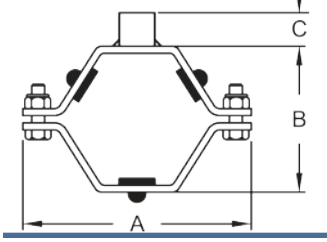


Tube OD	A	B	*304 Stainless Steel* Part Number
½"	3.625	2.125	***B24RGSFY-G50***
¾"	3.625	2.125	***B24RGSFY-G75***
1"	3.625	2.125	***B24RGSFY-G100***
1½"	3.625	2.125	***B24RGSFY-G150***
2"	4.313	2.625	***B24RGSFY-G200***
2½"	4.875	3.125	***B24RGSFY-G250***
3"	5.375	3.625	***B24RGSFY-G300***
4"	6.563	4.750	***B24RGSFY-G400***
6"	9.000	6.625	***B24RGSFY-G600***
8"	11.250	8.750	***B24RGSFY-G800***
10"	14.500	10.500	***B24RGSFY-G1000***
12"	16.750	12.625	***B24RGSFY-G1200***

Hex Hanger with Nitrile Grommets and Coupler - *B24RGC*

Features:

- Nitrile grommets maximum temperature: **230°F**
- Coupler has 3/8 NPT

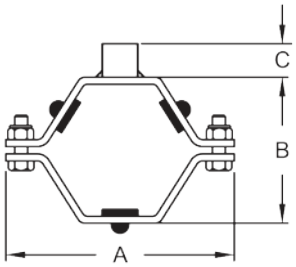


Tube OD	A	B	C	*304 Stainless Steel* Part Number
½" - ¾"	3.425	1.450	.750	***B24RGC-G75***
1"	3.425	1.450	.750	***B24RGC-G100***
1½"	4.000	2.125	.750	***B24RGC-G150***
2"	4.500	2.500	.750	***B24RGC-G200***
2½"	4.750	3.125	.750	***B24RGC-G250***
3"	5.500	3.750	.750	***B24RGC-G300***
4"	6.750	4.750	.750	***B24RGC-G400***
6"	9.250	6.625	.750	***B24RGC-G600***
8"	11.500	8.625	.750	***B24RGC-G800***

Tube Hex Hangers

Hex Hanger with Nitrile Grommets and All Thread Coupler - *B24RGC16*

Features:
- Nitrile grommets maximum temperature: **230°F**
- Coupler is all thread 3/8-16



Tube OD	A	B	C	*304 Stainless Steel* Part Number
½" - ¾"	3.425	1.450	.750	***B24RGC16-G75***
1"	3.425	1.450	.750	***B24RGC16-G100***
1½"	4.000	2.125	.750	***B24RGC16-G150***
2"	4.500	2.500	.750	***B24RGC16-G200***
2½"	4.750	3.125	.750	***B24RGC16-G250***
3"	5.500	3.750	.750	***B24RGC16-G300***
4"	6.750	4.750	.750	***B24RGC16-G400***
6"	9.250	6.625	.750	***B24RGC16-G600***
8"	11.500	8.625	.750	***B24RGC16-G800***

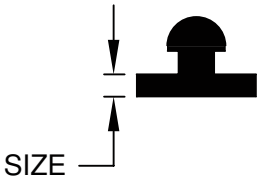
Nuts and Bolts - *13NHN*

Features:
- All sizes hex hangers with grommets and round hangers 1" to 4" use 13NHN-G100-600 fastener sets
- ½" and ¾" round and sleeved hangers use 13NHN-G75 fastener sets
- 2 nuts and bolts supplied to a set

Size	Description	*304 Stainless Steel* Part Number
½" - ¾"	1/4-20 x 3/4" bolt with nylock nut	***13NHN-G75***
1" - 12"	5/16-18 x 1" bolt with nylock nut	***13NHN-G100-600***

Grommets - *13RG*

Features:
- Nitrile grommets maximum temperature: **230°F**
- FKM grommets maximum temperature: **392°F**



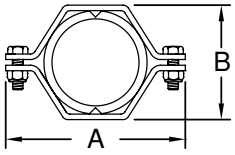
Size	*Nitrile* Part Number	*FKM* Part Number
⅛"[1]	***13RG18***	***13RGV18***
¼"	***13RG14***	***13RGV14***
1/2"	***13RG12***	***13RGV12***
3/8"[2]	***13RG3/8***	***13RGV38***
5/8"	***13RG58***	***13RGV58***

[1] for 1" hangers and larger
[2] for ½" and ¾" hangers

Tube Hex Hangers

Hex Hanger with ABS Sleeve - *B24PS*

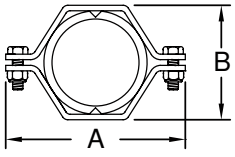
Feature:
- ABS sleeve maximum temperature: **230°F**



Tube OD	A	B	*304 Stainless Steel* Part Number
½"	2.800	1.150	***B24PS-G50***
¾"	2.800	1.150	***B24PS-G75***
1"	3.425	1.450	***B24PS-G100***
1½"	4.000	2.125	***B24PS-G150***
2"	4.500	2.500	***B24PS-G200***
2½"	4.950	3.125	***B24PS-G250***
3"	5.500	3.750	***B24PS-G300***
4"	6.950	4.750	***B24PS-G400***
5"	8.063	5.625	***B24PS-G500***
6"	9.250	6.625	***B24PS-G600***
8"	11.500	8.625	***B24PS-G800***
10"	14.500	10.500	***B24PS-G1000***
12"	16.625	13.000	***B24PS-G1200***

Hex Hanger with High Temperature Polysulfone Sleeve - *B24HS*

Feature:
- High temperature sleeve maximum temperature: **325°F**



Tube OD	A	B	*304 Stainless Steel* Part Number
½"	2.375	1.062	***B24HS-G50***
¾"	2.625	1.188	***B24HS-G75***
1"	2.688	1.563	***B24HS-G100***
1½"	3.625	2.125	***B24HS-G150***
2"	4.625	2.625	***B24HS-G200***
2½"	4.813	3.125	***B24HS-G250***
3"	5.375	3.625	***B24HS-G300***
4"	6.625	4.625	***B24HS-G400***
6"	9.000	6.625	***B24HS-G600***

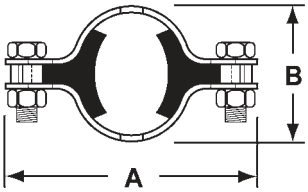
Sleeves - *13*S*

Features:
- ABS sleeve maximum temperature: **230°F**
- High temperature sleeve maximum temperature: **325°F**

Size	*ABS* Part Number	*High Temperature* Part Number
½"	***13PS-50***	***13HS-50***
¾"	***13PS-75***	***13HS-75***
1"	***13PS-100***	***13HS-100***
1½"	***13PS-150***	***13HS-150***
2"	***13PS-200***	***13HS-200***
2½"	***13PS-250***	***13HS-250***
3"	***13PS-300***	***13HS-300***
4"	***13PS-400***	***13HS-400***
5"	***13PS-500***	---
6"	***13PS-600***	***13HS-600***
8"	***13PS-800***	---
10"	***13PS-1000***	---
12"	***13PS-1200***	---

Round Hanger with Nitrile Inserts - *B24RPH*

Features:
- Nitrile inserts maximum temperature: **230°F**
- All hex and round style hangers can be equipped with the following coupler options: 3/8 NPT or all thread: 3/8-16 or 1/2-13



Tube OD	A	B	*304 Stainless Steel* Part Number
½"	2.750	1.125	***B24RPH-G50***
¾"	2.750	1.125	***B24RPH-G75***
1"	3.310	1.500	***B24RPH-G100***
1½"	3.810	2.000	***B24RPH-G150***
2"	4.250	2.562	***B24RPH-G200***
2½"	5.000	3.000	***B24RPH-G250***
3"	5.500	3.562	***B24RPH-G300***
4"	6.500	4.688	***B24RPH-G400***

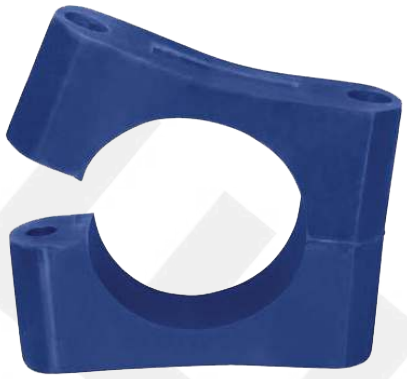
Tube Uni-Hinge Block Hangers

Features:
- support range: 1½" - 4", optional 6" - contact Dixon Sanitary

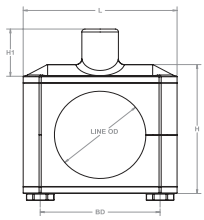
Materials:
- silicone insert - 80 durometer; color: blue
- intermittent temperatures from -40°F to 320°F
- hardware - 304 & 316 stainless steel

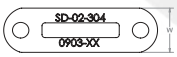
Applications:
- clean rooms and mechanical areas; not limited to: biotech, pharmaceutical, food processing.
- low flow and low pressure systems with moderate vibration: WFI, SIP, CIP, process, utility and instrument lines.

Benefits:
- insulation envelope: reduced OD allows hanger to be buried under the insulation jacket.
- silicone inserts are one piece
- there are no exposed threads or openings in hardware plates
- all plates polished, bolts are cleaned and nuts are lubricated with FDA approved product
- hanger threads match MSS SP-69 rod OD requirements



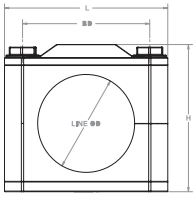
Hang Plate Block Hanger - *B24-HP*

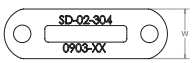




Tube OD	BD	H	H1	L	Line OD	W	Thread	Part Number
½"	1.44	1.69	0.60	1.93	0.50	0.75	3/8"-16	***B24-HP-G050***
¾"	1.44	1.69	0.60	1.93	0.75	0.75	3/8"-16	***B24-HP-G075***
1"	1.44	1.69	0.60	1.93	1.00	0.75	3/8"-16	***B24-HP-G100***
1½"	1.94	2.19	0.60	2.49	1.50	0.75	3/8"-16	***B24-HP-G150***
2"	2.44	2.69	0.60	2.99	2.00	0.88	1/2"-13	***B24-HP-G200***
2½"	2.81	3.22	1.21	3.36	2.50	0.88	1/2"-13	***B24-HP-G250***
3"	3.44	3.97	1.21	3.99	3.00	0.88	1/2"-13	***B24-HP-G300***
4"	4.55	4.85	1.39	5.10	4.00	1.00	5/8"-11	***B24-HP-G400***

Weld Plate Block Hanger - *B24-WP*

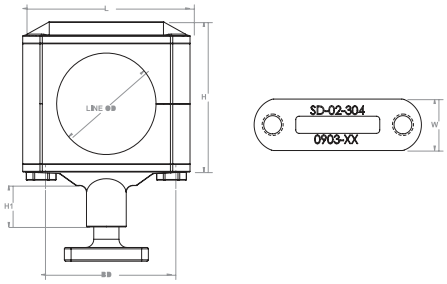




Tube OD	BD	CL	H	L	Line OD	W	Part Number
½"	1.44	0.79	1.73	1.93	0.50	0.75	***B24-WP-G050***
¾"	1.44	0.79	1.73	1.93	0.75	0.75	***B24-WP-G075***
1"	1.44	0.79	1.73	1.93	1.00	0.75	***B24-WP-G100***
1½"	1.94	1.03	2.23	2.49	1.50	0.75	***B24-WP-G150***
2"	2.44	1.31	2.75	2.99	2.00	0.88	***B24-WP-G200***
2½"	2.81	1.55	3.25	3.36	2.50	0.88	***B24-WP-G250***
3"	3.44	1.93	3.68	3.99	3.00	0.88	***B24-WP-G300***
4"	4.55	2.39	4.87	5.10	4.00	1.00	***B24-WP-G400***

Tube Uni-Hinge Block Hangers

Base Mount Block Hanger - *B24-BM*

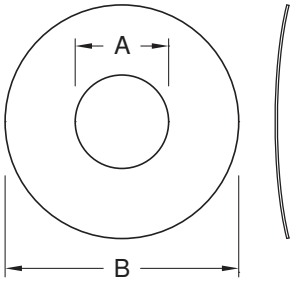


Tube OD	BD	H	H1	L	Line OD	W	Thread	Part Number
½"	1.44	1.70	0.47	1.93	0.50	0.75	3/8"-16	***B24-BM-G050***
¾"	1.44	1.70	0.47	1.93	0.75	0.75	3/8"-16	***B24-BM-G075***
1"	1.44	1.70	0.47	1.93	1.00	0.75	3/8"-16	***B24-BM-G100***
1½"	1.94	2.19	0.47	2.49	1.50	0.75	3/8"-16	***B24-BM-G150***
2"	2.44	2.69	0.47	2.99	2.00	0.88	1/2"-13	***B24-BM-G200***
2½"	2.81	3.19	0.59	3.36	2.50	0.88	1/2"-13	***B24-BM-G250***
3"	3.44	3.97	0.59	3.99	3.00	0.88	1/2"-13	***B24-BM-G300***

Wall Flanges

K

Flanges - *B25*



Tube OD	A	B[1]	Wall Thickness	*304 Stainless Steel* Part Number
½"	.50	3.00	.065	***B25-G050300***
½"	.50	5.00	.065	***B25-G050500***
¾"	.75	3.00	.065	***B25-G075300***
¾"	.75	5.00	.065	***B25-G075500***
1"	1.00	3.00	.065	***B25-G100300***
1"	1.00	5.00	.065	***B25-G100500***
1½"	1.50	5.00	.065	***B25-G150500***
2"	2.00	5.00	.065	***B25-G200500***
2½"	2.50	5.00	.065	***B25-G250500***
3"	3.00	6.00	.065	***B25-G300600***
4"	4.00	7.00	.065	***B25-G400700***
5"	5.00	8.00	.065	***B25-G500800***
6"	6.00	10.00	.065	***B25-G6001000***
8"	8.00	12.00	.065	***B25-G8001200***
10"	10.00	14.00	.065	***B25-G10001400***
12"	12.00	16.00	.065	***B25-G12001600***

[1] Square wall flanges are also available, call Dixon Sanitary for information.

Dixon Sanitary Sight Glasses

Product Specifications

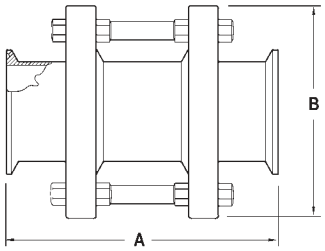
Size Range:
- size range: 1" - 6" OD tube

Material:
- 316L stainless steel
- Borosilicate glass
- white Buna gaskets

Finish:
- 32R_a sanitary finish, ID and OD

In-Line Sight Glass - *B54BMP*

Features:
- various end configurations are available: clamp, weld, bevel seat, John Perry, I-Line and Q-Line
- maximum temperature: **200°F**



Tube OD	A	B	Working Pressure	*316L Stainless Steel* Part Number
1"	5.625	3.250	145	***B54BMP-R100***
1½"	5.625	4.000	145	***B54BMP-R150***
2"	5.625	4.250	145	***B54BMP-R200***
2½"	6.125	4.750	120	***B54BMP-R250***
3"	7.250	5.500	120	***B54BMP-R300***
4"	7.375	6.500	95	***B54BMP-R400***
6"	7.625	9.500	80	***B54BMP-R600***

L

Kits and Replacement Parts

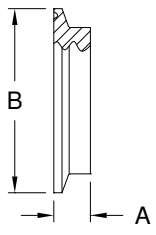
Size	*Seal Kit* Part Number	*Replacement Glass* Part Number
1"	***B54BMP-SK100***	***B54G-P100***
1½"	***B54BMP-SK150***	***B54G-P150***
2"	***B54BMP-SK200***	***B54G-P200***
2½"	***B54BMP-SK250***	***B54G-P250***

Size	*Seal Kit* Part Number	*Replacement Glass* Part Number
3"	***B54BMP-SK300***	***B54G-P300***
4"	***B54BMP-SK400***	***B54G-P400***
6"	***B54BMP-SK600***	***B54G-P600***

Seal Kit Contains: (2) white Buna gaskets

Acrylic Sight Glass End Caps - *B5416MP*

Features:
- for use on any line with a clamp and gasket
- maximum temperature: **150°F**
- maximum operating pressure: **100 PSI**



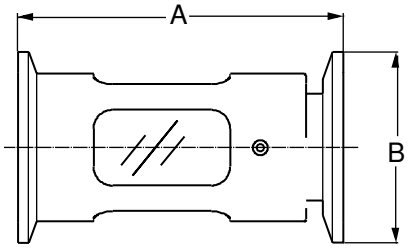
Tube OD	A	B	*Acrylic plastic* Part Number
1" - 1½"	.438	1.984	***B5416MP-A100150***
2"	.438	2.516	***B5416MP-A200***
2½"	.438	3.047	***B5416MP-A250***
3"	.438	3.579	***B5416MP-A300***
4"	.438	4.682	***B5416MP-A400***
6"	.438	6.562	***B5416MP-A600***

Compact Sight Glasses

Applications:
- Used widely in the food, dairy and beverage sanitary processes to view products and fluids. This design is perfect for hoses.

Features:
- easier to clean than bolted styles
- less cost to repair than bolted styles
- clamp connections standard
- sizes available: 1", 1½", 2", 3"
- maximum temperature: **200°F**
- maximum pressure: **100 PSI**

Materials:
- body: 316L stainless steel
- sight glass: Borosilicate glass
- gasket: Buna



Tube OD	Dimensions A	Dimensions B	*316L Stainless Steel* Part #
1"	3.375	1.980	***B54BMPS-R100***
1½"	3.640	1.980	***B54BMPS-R150***
2"	3.830	2.516	***B54BMPS-R200***
3"	4.130	3.800	***B54BMPS-R300***
4"	4.340	4.680	***B54BMPS-R400***

Kits and Replacement Parts

Size	Seal Kit Part Number	Replacement Glass Part #
1"	***B54BMPS-SK100***	***B54BMPS-GL100***
1½"	***B54BMPS-SK150***	***B54BMPS-GL150***
2"	***B54BMPS-SK200***	***B54BMPS-GL200***
3"	***B54BMPS-SK300***	***B54BMPS-GL300***
4"	***B54BMPS-SK400***	***B54BMPS-GL400***

Dixon Sanitary Strainers

3A 10-04
1446

Product Specifications

Size range:
- 1" - 3" clamp

Type:
- Inline
  - short
  - long
- Side Entry
  - long
  - side outlet

Material:
- 316L stainless steel

Finish:
- 3A sanitary, ID and OD

What Are Strainers Used For?

Strainer Definition
A strainer is a device used to separate solids from fluids. Here it is used for larger particulate matter from liquid or gas. It uses cleanable media.

Filter Definition
A filter uses a disposable media to remove finer particulate from the stream. Dixon Sanitary holds Authorization Number 1446 for the 3A Sanitary Standard for Filters using Single Service Filter Media, Number: 10-4. Vertical mounting is necessary to meet 3A 10-04 requirements for minimal product clingage.

M

Full Flow Coarse Strainers -
¼" or ⅛" perforations.
(⅛" not 3A)

Full Flow Fine/Medium Strainers -
Can be equipped with a variety of mesh screens for removing finer particles (20 to 100 mesh). See chart on page 365.
(not 3A)

Full Flow Filters -
Can be equipped with a variety of filtering media, down to 40 microns, media includes polyester, cotton cheesecloth and nylon mesh.
See chart on page 122.

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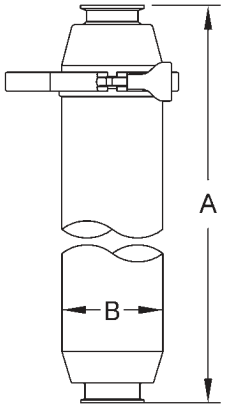
Strainers

In-line Strainer - *BSCCQ*



Feature:

- Bevel seat, I-line and weld ends available, call Dixon Sanitary for information
- In-line units ship standard with the following: spring, distributor cap, clamp gasket, ¼" perforated back-up tube, inlet and outlet bodies and squeeze clamp
- ⅛" perforated back-up tube available, must specify when ordering (not 3A certified)
- must be vertical mount for 3A usage

Size	A short	A long	B	*Short* *316L Stainless Steel* Part Number	*Long* *316L Stainless Steel* Part Number
1"	15.75	--	4.00	***BSCCQ1-R100***	***---***
1½"	15.75	35.375	4.00	***BSCCQ1-R150***	***BSCCQ2-R150***
2"	15.75	35.375	4.00	***BSCCQ1-R200***	***BSCCQ2-R200***
2½"	15.75	--	4.50	***BSCCS1-R250***	***---***
3"	15.75	35.375	4.50	***BSCCS1-R300***	***BSCCS2-R300***

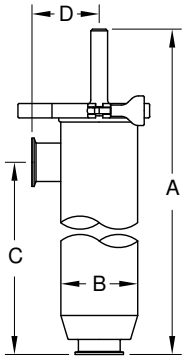
Strainers

Bill of Materials

Item #	Description	Short Part #	Long Part #	Material	Qty
1	1" strainer outlet	BS-01-R100	---	316L stainless steel	1
	1½" strainer outlet	BS-01-R150			
	2" strainer outlet	BS-01-R200			
	2½" strainer outlet	BS-01-R250	---		
	3" strainer outlet	BS-01-R300			
2	1" - 2" strainer spring	BS-02-R100-200		316L stainless steel	1
	2½" - 3" strainer spring	BS-02-R250-300			
3	1" - 2" (4") clamp gasket	40MP-U400		Buna	1
	2½" - 3" (4") schedule 5 clamp gasket	40MPV-U400			
4	1" - 2" back-up tube with ⅛" perforations	BS-1418-R100200	BS-2418-R100200	316L stainless steel	1
	2½" - 3" back-up tube with ⅛" perforations	BS-1418-R250300	BS-2418-R250300		
	1" - 2" back-up tube with ¼" perforations	BS-1425-R100200	BS-2425-R100200		
	2½" - 3" back-up tube with ¼" perforations	BS-1425-R250300	BS-2425-R250300		
5	1" - 2" strainer cap	BS-05-R100-200		316L stainless steel	1
	2½" - 3" strainer cap	BS-05-R250-300			
6	1" strainer inlet	BS-16-R100	---	316L stainless steel	1
	1½" strainer inlet	BS-16-R150	BS-26-R150		
	2" strainer inlet	BS-16-R200	BS-26-R200		
	2½" strainer inlet	BS-16-R250	---		
	3" strainer inlet	BS-16-R300	BS-26-R300		
7	1" - 3" various mesh over screens (short/long)	part number on page 124		316 stainless steel	1
8	1" - 3" various filter bag (short/long)	part number on page 124		various	1
9	1" - 2" retaining ring used with filter bags	BS-09-U100-200		Buna	2
	2½" - 3" retaining ring used with filter bags	BS-09-U250-300			
10	1" - 2" (4") squeeze clamp	13MHHM-Q400		CF8	1
	2½" - 3" (4") schedule 5 squeeze clamp	13MHHV-Q400			

Strainers

Side-Entry Strainer - *BSCCQ*



Features:

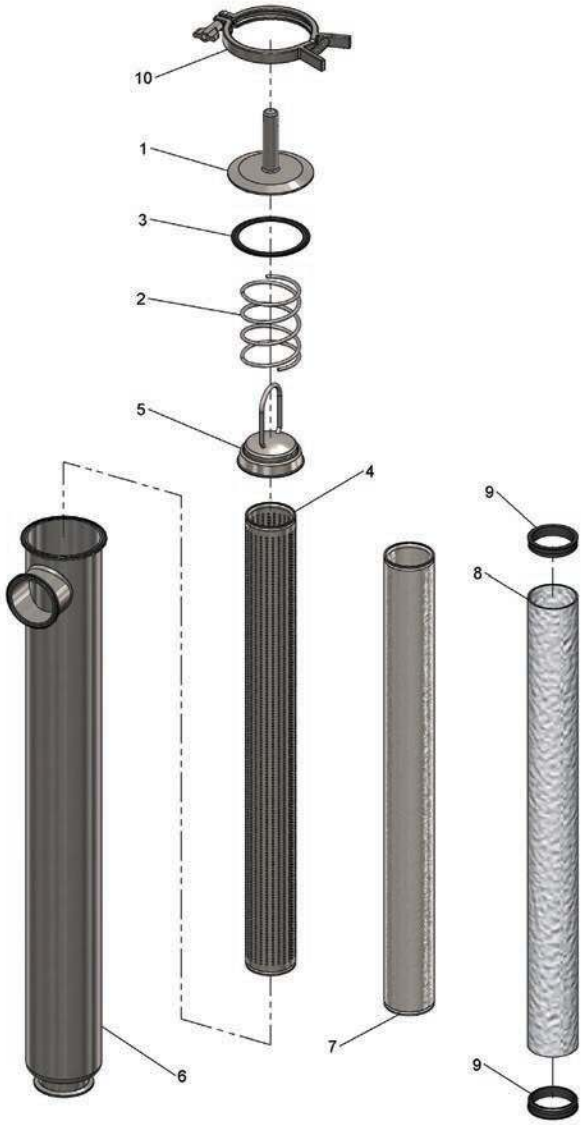
- bevel seat, I-line and weld ends available, call Dixon Sanitary for information
- serviceable without removing from the line
- Side entry units ship standard with the following: spring, end cap with handle, distributor cap, clamp gasket, ¼" perforated back-up tube, body and squeeze clamp
- ⅛" perforated back-up tube available, must specify when ordering (not 3A authorized)
- must be vertical mount for 3A usage

M

Size	A	B	C	D	*316L Stainless Steel* Part #
1½"	41.90	4.00	35.00	3.50	***BSCCQ3-R150***
2"	41.90	4.00	35.00	3.50	***BSCCQ3-R200***
3"	41.90	4.50	35.00	3.75	***BSCCQ3-R300***

Strainers

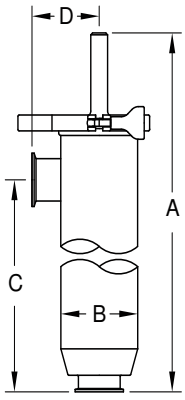
Bill of Materials



Item #	Description	1½" and 2" Part #	3" Part #	Material	Qty
1	end cap with handle	***BS-31-R100-200***	***BS-31-R250-300***	316L stainless steel	1
2	strainer spring	***BS-32-R100-200***	***BS-32-R250-300***	316L stainless steel	1
3	clamp gasket	***40MP-U400***	***40MPV-U400***	Buna	1
4	back-up tube with ⅛" perforations	***BS-1418-R100200***	***BS-2418-R250300***	316L stainless steel	1
	back-up tube with ¼" perforations	***BS-1425-R100200***	***BS-2425-R250300***		
5	distributor cap	***BS-35-R100-200***	***BS-35-R250-300***	316L stainless steel	1
6	1½" strainer body	***BS-36-R150***	***---***	316L stainless steel	1
	2" strainer body	***BS-36-R200***	***---***		
	3" strainer body	***---***	***BS-36-R300***		
7	various mesh over screens	part number on page 124		316 stainless steel	1
8	various filter bag	part number on page 124		various	1
9	retaining ring used with filter bags	***BS-09-U100-200***	***BS-09-U250-300***	Buna	2
10	squeeze clamp for assembly	***13MHHM-Q400***	***13MHHV-Q400***	CF8	1

Strainers

Side-Outlet Reverse Strainer - *BSCCQ*

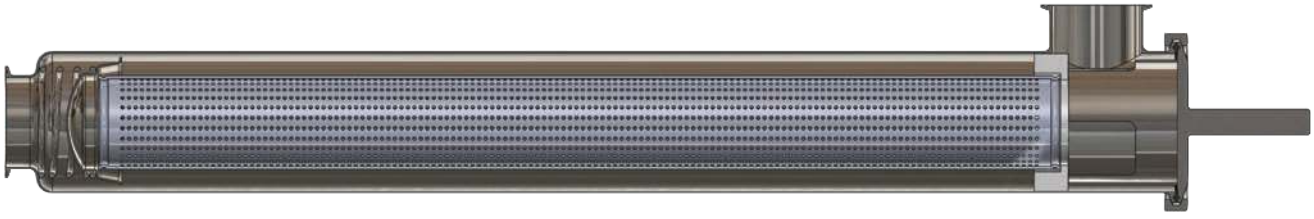


Features:

- Ships standard with: spring, end cap with handle, distributor cap, clamp gasket, ¼" perforated back-up tube, body and squeeze clamp
- ⅛" perforated back-up tube available (not 3A certified)
- Bevel seat, I-line and weld ends available, call Dixon Sanitary for information
- Can be serviced in-line

M

Size	A	B	C	D	*316L Stainless Steel* Part #
1½"	41.90	4.00	35.00	3.50	***BSCCQ4-R150***
2"	41.90	4.00	35.00	3.50	***BSCCQ4-R200***
3"	41.90	4.50	35.00	3.75	***BSCCQ4-R300***



Strainers

Bill of Materials

Item #	Description	1½" and 2" Part #	3" Part #	Material	Qty
1	end cap with handle	***BS-31-R100-200***	***BS-31-R250-300***	316L stainless steel	1
2	strainer spring	***BS-02-R100-200***	***BS-02-R250-300***	316L stainless steel	1
3	clamp gasket	***40MP-U400***	***40MPV-U400***	Buna	1
4	back-up tube with ⅛" perforations	***BS-1418-R100200***	***BS-2418-R250300***	316L stainless steel	1
	back-up tube with ¼" perforations	***BS-1425-R100200***	***BS-2425-R250300***		
5	distributor cap	***BS-05-R100-200***	***BS-05-R250-300***	316L stainless steel	1
6	1½" strainer body	***BS-36-R150***	***---***	316L stainless steel	1
	2" strainer body	***BS-36-R200***	***---***		
	3" strainer body	***---***	***BS-36-R300***		
7	various mesh over screens [1]	***---***		316 stainless steel	1
8	various filter bag [1]	***---***		various	1
9	retaining ring used with filter bags [1]	***BS-09-U100-200***	***BS-09-U250-300***	Buna	2
10	squeeze clamp for assembly	***13MHHM-Q400***	***13MHHV-Q400***	CF8	1
11	stand off tube	***BS-411-R100-200***	***BS-411-R250-300***	316L stainless steel	1
12	retainer ring	***BS-412-R100-200***	***BS-412-R250-300***	PTFE	1

[1] Not included, must be ordered separately

Conversion Kit (to convert side entry to side outlet) - includes item numbers 2, 5, 11 and 12.
BS-Q4KIT-100200, ***BS-Q4KIT-250300***

M

Strainers

Filters

- Filter medium are special order and minimum quantities apply. Not included with base unit.
- Filters require retaining ring. See pages 119, 121 and 123 for part numbers.

Size	Micron Rating	Description	*Short* Part Number	*Long/Side Entry* Part Number
1" - 2"	38	nonwoven rayon (glued seam)	***BF30A-100-200***	**---**
2½" - 3"	38	nonwoven rayon (glued seam)	***BF30A-250-300***	**---**
1" - 2"	513	woven knapped cotton flannel	***BF30B-100-200***	**---**
2½" - 3"	513	woven knapped cotton flannel	***BF30B-250-300***	**---**
1" - 2"	300	cheese cloth, single thickness cotton	***BF30C-100-200***	**---**
2½" - 3"	300	cheese cloth, single thickness cotton	***BF30C-250-300***	**---**
1" - 2"	765	nylon, 26/29 mesh, rectangular opening, (.025 x .030)	***BF30D-100-200***	**---**
2½" - 3"	765	nylon, 26/29 mesh, rectangular opening, (.025 x .030)	***BF30D-250-300***	**---**
1" - 2"	40-42	nonwoven rayon	***BF30E-100-200***	***BF302E-100-200***
2½" - 3"	40-42	nonwoven rayon	***BF30E-250-300***	***BF302E-250-300***
1" - 2"	40	nonwoven rayon	***BF30F-100-200***	**---**
1" - 2"	420	woven nylon, 40 mesh	***BF30G-100-200***	**---**
2½" - 3"	420	woven nylon, 40 mesh	***BF30G-250-300***	***BF302G-250-300***

316 Stainless Wire Cloth Mesh Over Screens

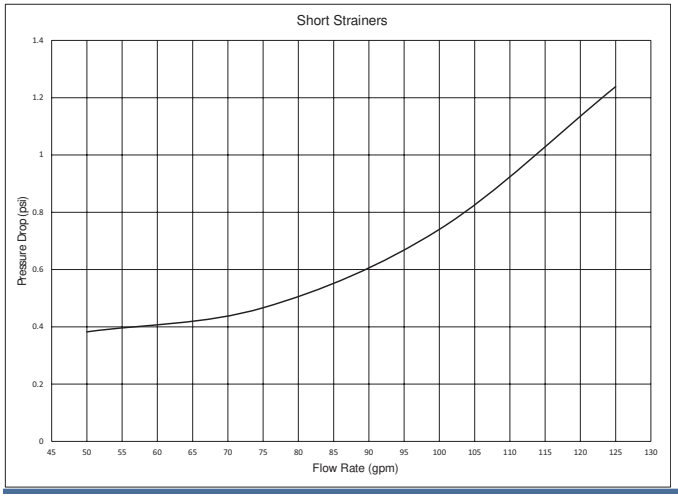
- Not all sizes are stocked, additional sizes are available (5 piece minimum), call Dixon Sanitary. Not included with base unit.
- Not 3A compatible

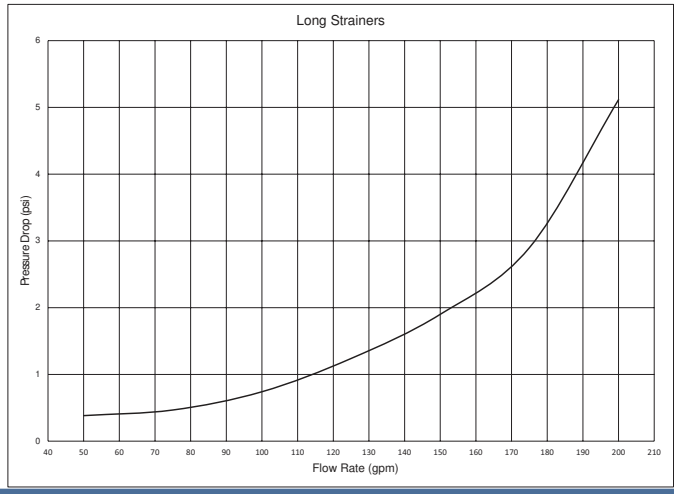
Size	Micron Rating	Square Mesh	Space Between Wires	Percent of Open Area	*Short* Part Number	*Long/Side Entry* Part Number
1" - 2"	864	20	0.034	46.2	***BS20-100-200***	***BS202-100-200***
2½" - 3"	864	20	0.034	46.2	***BS20-250-300***	***BS202-250-300***
1" - 2"	381	40	0.015	36.0	***BS40-100-200***	***BS402-100-200***
2½" - 3"	381	40	0.015	36.0	***BS40-250-300***	***BS402-250-300***
1" - 2"	229	60	0.009	30.3	***BS60-100-200***	***BS602-100-200***
2½" - 3"	229	60	0.009	30.3	***BS60-250-300***	***BS602-250-300***
1" - 2"	178	80	0.007	31.4	***BS80-100-200***	***BS802-100-200***
2½" - 3"	178	80	0.007	31.4	***BS80-250-300***	***BS802-250-300***
1" - 2"	140	100	0.006	30.3	***BS100-100-200***	***BS1002-100-200***
2½" - 3"	140	100	0.006	30.3	***BS100-250-300***	***BS1002-250-300***

Pressure Drop Curves for Strainer

Water at ambient temperature

- maximum flow for short units is 125 GPM
- maximum flow for long units is 175 GPM





Dual Strainers

Application:

- Use when system needs to be cleaned regularly but product flow needs to be maintained. Short, long and side entry dual units are available with manual or actuated valves, contact Dixon Sanitary for information.

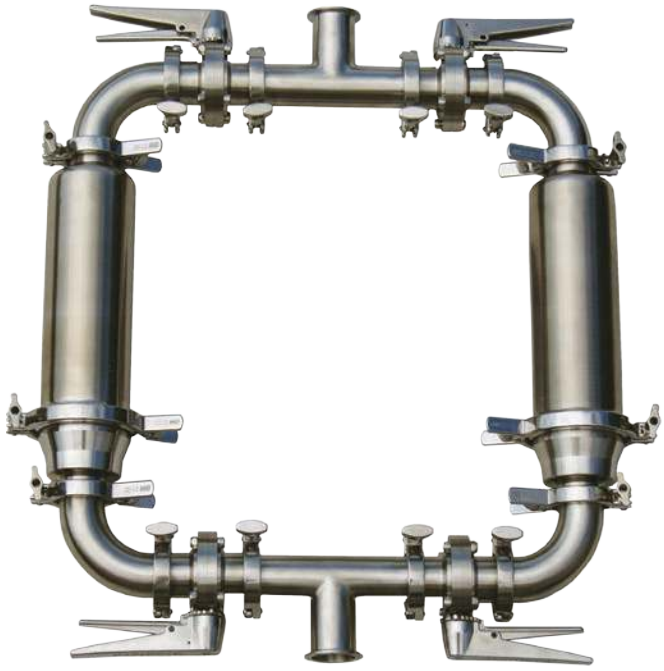
Design Using 3-way Ball Valves

Description	Part #	Qty
3-way L port ball valves, sizes 1" - 3"	***BV3SVLF***	2
squeeze clamps, sizes 1" - 3"	***13MHHM-Q***	4
single pin clamps, sizes 1" to 3"	***13MHHM***	4
clamp 90° elbow, sizes 1" - 3"	***B2CMP-R***	4
clamp gaskets in various materials, sizes 1" - 3"	***40MP***	8

M

Design Using Butterfly Valves

Description	Part #	Qty
butterfly valve, various handles, actuation and seat materials, sizes 1" - 3"	***B5101***	4
clamp tee, sizes 1" - 3"	***B7MP***	2
clamp 90° elbow, sizes 1"- 3"	***B2CMP***	4
squeeze clamps, sizes 1"- 3"	***13MHHM-Q***	4
single pin clamps, sizes 1" - 3"	***13MHHM***	8
clamp gaskets in various materials, sizes 1"- 3"	***40MP***	12

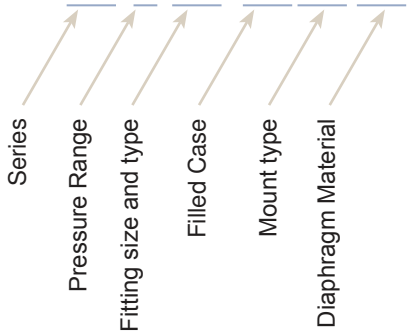


3 74-03
850

Dixon Sanitary Gauges

Model Number Breakdown

3S-E-2U-GFBTSS



Product Specifications

Size range:
- 1½", 2", 2½" or 3"

Material:
- 316L stainless steel

Finishes:
- 3A sanitary
- pharmaceutical

Ordering Information

Series
- ***3S***.....3½" Sanitary pressure gauge
- ***5S***.....5" Sanitary pressure gauge
- ***3P***.....3½" Pharmaceutical pressure gauge
- ***5P***.....5" Pharmaceutical pressure gauge

Pressure Range [1]
- ***B***.....0 to 30 PSI (2 BAR)
- ***C***.....0 to 60 PSI (4 BAR)
- ***D***.....0 to 100 PSI (7 BAR)
- ***E***.....0 to 160 PSI (11 BAR)
- ***F***.....0 to 200 PSI (14 BAR)
- ***G***.....0 to 300 PSI (21 BAR)
- ***H***.....0 to 400 PSI (28 BAR)
- ***I***.....0 to 600 PSI (41 BAR)
- ***K***.....0 to 1,000 PSI (70 BAR)

[1] Standard scales are in PSI only. For dual scales, add the letter B for PSI/BAR after the pressure range letter.

Fitting Type [2]
specify size in inches: 15, 2, 25 or 3
- ***I***.....male I-Line
- ***J***.....female I-Line
- ***R***.....RJT
- ***S***.....#15 Bevel Seat sanitary male thread
- ***T***.....#13H captive nut and #14 Bevel Seat
- ***U***.....clamp
- ***DIN***.....DIN according to DIN 11851 (*specify DIN40 or DIN50*)
- ***SMS***.....SMS (*specify SMS38 or SMS51*)

[2] specify size then type, i.e. 1½" = 15

Filled Case
- ***GF***.....glycerine filled
- ***NF***.....no fill (dry)

Mount type
- ***BT***.....bottom
- ***RT***.....right side
- ***LF***.....left side
- ***TP***.....top
- ***BK***.....back

Diaphragm Material
- ***SS***.....stainless steel

N

Index

Sanitary 127-127
Pharmaceutical.....129
Homogenizer pressure gauges 130-131
Thermometers 132
Sanitary RTD's and temperature transmitters 133-134

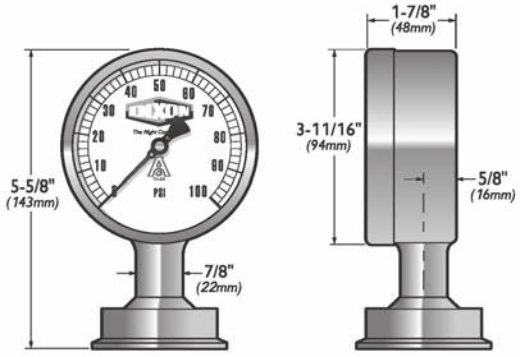
Sanitary Pressure Gauges

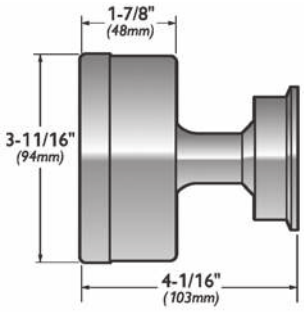
Product Specifications:

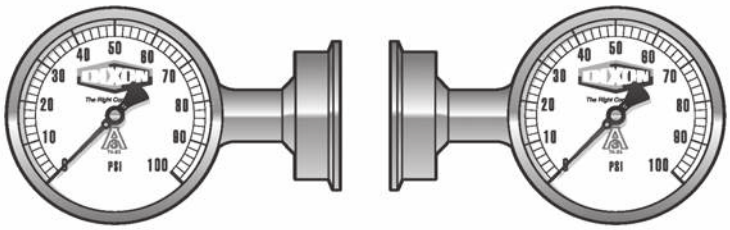
- accuracy: ± 1.5% of full scale
- over range capacity: 30%
- wetted surfaces: 316L stainless steel
- surface finishes (wetted parts): R_a max = 25 microinches
- case material: 304 stainless steel
- dial size: 3½" or 5" diameter
- lens material: polycarbonate
- temperature limits: **0°F (-18°C)** to **250°F (121°C)**
- standard fill: food grade glycerin
- rezero feature: standard on pointer
- shipping weight: approximately 3 lbs. (1.3 kg)

3S-EB-2U-GFBTSS

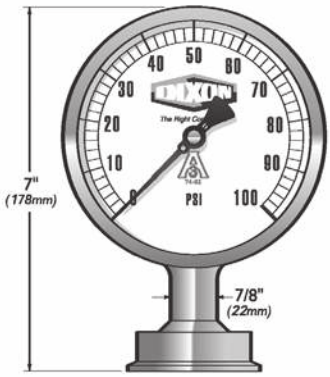
3½" Gauge - *(90 mm)*

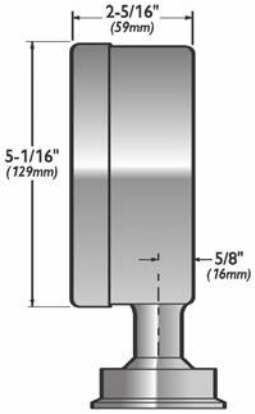






5" Gauge - *(120 mm)*





shown with 2" clamp

N

Sanitary Pressure Gauges

Part #	Dial Size	Pressure Range (PSI)	Clamp Size	Mount
3S-B-15U-GFBTSS	3.5"	0-30	1½"	bottom
3S-C-15U-GFBTSS	3.5"	0-60	1½"	bottom
3S-D-15U-GFBTSS	3.5"	0-100	1½"	bottom
3S-E-15U-GFBTSS	3.5"	0-160	1½"	bottom
3S-F-15U-GFBTSS	3.5"	0-200	1½"	bottom
3S-G-15U-GFBTSS	3.5"	0-300	1½"	bottom
3S-B-15U-GFBKSS	3.5"	0-30	1½"	back
3S-C-15U-GFBKSS	3.5"	0-60	1½"	back
3S-D-15U-GFBKSS	3.5"	0-100	1½"	back
3S-E-15U-GFBKSS	3.5"	0-160	1½"	back
3S-F-15U-GFBKSS	3.5"	0-200	1½"	back
3S-G-15U-GFBKSS	3.5"	0-300	1½"	back
3S-B-2U-GFBTSS	3.5"	0-30	2"	bottom
3S-C-2U-GFBTSS	3.5"	0-60	2"	bottom
3S-D-2U-GFBTSS	3.5"	0-100	2"	bottom
3S-E-2U-GFBTSS	3.5"	0-160	2"	bottom
3S-F-2U-GFBTSS	3.5"	0-200	2"	bottom
3S-G-2U-GFBTSS	3.5"	0-300	2"	bottom
3S-B-2U-GFBKSS	3.5"	0-30	2"	back
3S-C-2U-GFBKSS	3.5"	0-60	2"	back
3S-D-2U-GFBKSS	3.5"	0-100	2"	back
3S-E-2U-GFBKSS	3.5"	0-160	2"	back
3S-F-2U-GFBKSS	3.5"	0-200	2"	back
3S-G-2U-GFBKSS	3.5"	0-300	2"	back

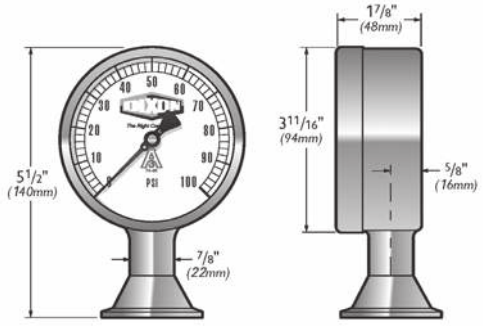
Pharmaceutical Pressure Gauges

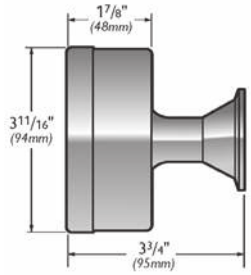
Product Specifications:

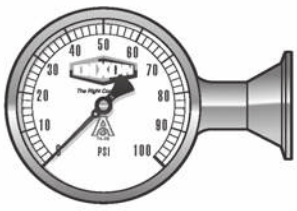
- accuracy: ± 0.75% of full scale
- over range capacity: 30%
- wetted surfaces: 316L stainless steel
- surface finishes (wetted parts): R_a max = 8 microinches
- case material: 304 stainless steel
- dial size: 3½" or 5" diameter
- lens material: polycarbonate
- temperature limits: **0°F (-18°C)** to **250°F (121°C)**
- standard fill: food grade glycerin
- rezero feature: standard on pointer
- shipping weight: approximately 3 lbs. (1.3 kg)
- dial size: 3½" diameter

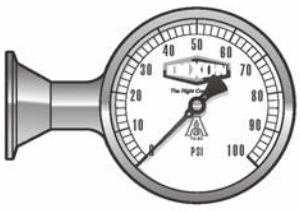
3P-D-15U-GFBT

3½" Gauge - *(90 mm)*

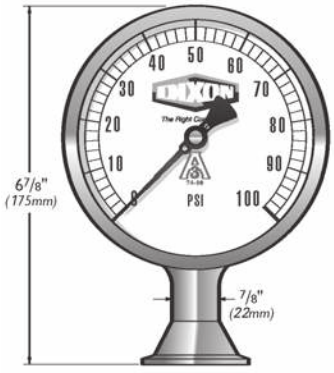


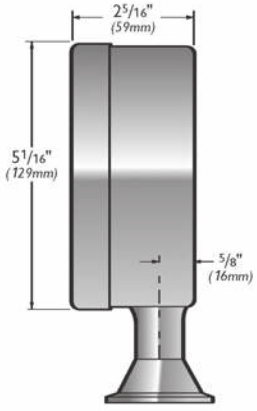






5" Gauge - *(120 mm)*





N

Homogenizer Pressure Gauges

Model Number Breakdown

5H - V - 03

Series

Pressure Range

Flange

Ordering Information

Series

5H.....5" Sani-Flow Homogenizer Pressure Gauge

Pressure Range [1]

K.....0 to 1,000 PSI (70 BAR)
T.....0 to 2,500 PSI (170 BAR)
U.....0 to 3,000 PSI (205 BAR)
V.....0 to 5,000 PSI (350 BAR)
Y.....0 to 7,500 PSI (520 BAR)
W.....0 to 10,000 PSI (700 BAR)
X.....0 to 15,000 PSI (1000 BAR)

[1] Standard scales are in PSI only. For dual scales, after the pressure range add the letter B for PSI/BAR, K for PSI/Kg/cm3, P for PSI/KPa (see examples below).

Examples

5H-V-03 - describes a 5" sani-flow homogenizer pressure gauge, 0 to 5,000 PSI, a 1-⅛" thick flange, and a glycerine filled case

5H-WB-01 - describes a 5" sani-flow homogenizer pressure gauge, dual scale 0 to 10,000 PSI/0 to 700 BAR, no flange, and a glycerine filled case

Flange

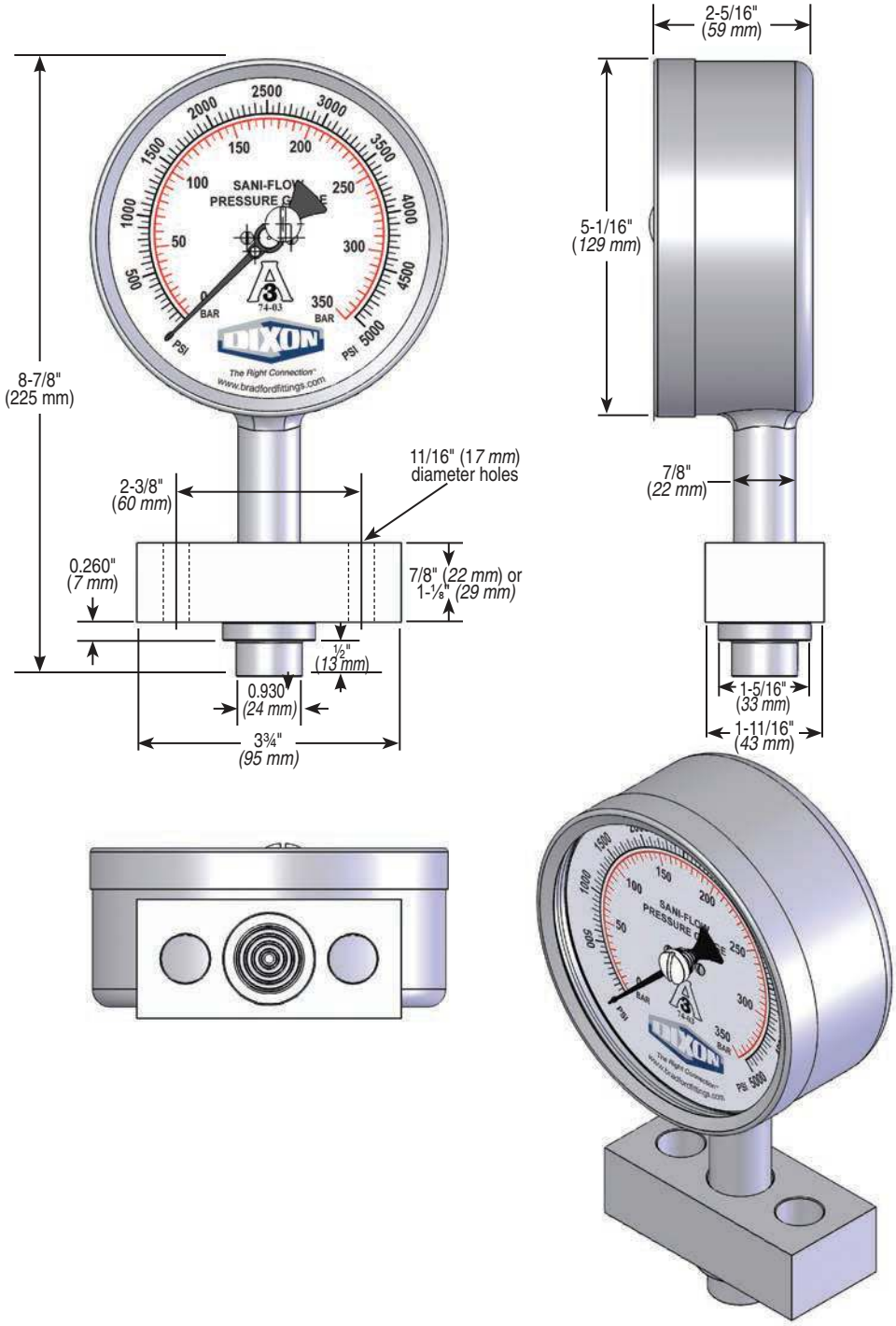
01 .....no flange
02 .....⅞" thick 2 bolt flange
03 .....1⅛" thick 2 bolt flange
04 .....Waukesha 1/2" thick 4 bolt flange
05 .....Waukesha 3/4" thick 4 bolt flange
09 .....1.66" thick laboratory homogenizer flange

N

Homogenizer Pressure Gauges

Product Specifications:

- 316L stainless steel wetted surfaces
- 304 stainless steel case
- Lexan® lens virtually impervious to cracks and breakage
- unique pulsation dampening system insulates the gauge movement from the punishing pulsations of a homogenizer
- ranges up to **15,000 PSI**
- dial size: 5"
- glycerine fill standard
- waterproof construction
- CIP-able
- maximum temperature: **250°F**
- true zero with re-zero standard



N

Sanitary Digital Thermometers

Model Number Breakdown

DT-2U-BT-DF-10

- Series
- Fitting Size and Type
- Mount Type
- Display
- Up-Date Interval

Product Specifications:

- accuracy: ±1°
- wetted surfaces: 316L stainless steel
- surface finish: R_a max.is 8 microinches
- case material: 304 stainless steel
- dial size: 3½" diameter
- lens material: ¼" polycarbonate
- temperature limits: **-58°F to 302°F**
- ambient operating limits: **-4°F to 140°F**
- LCD display: 0.6"
- resolution: **0.1° (-58° thru 199.9°)**
- battery size / life: standard AAA/3 years
- shipping weight: approximately 3 lbs.

Ordering Information

Series

DT.....Sanitary digital thermometer

Fitting Type [1]

sizes available: 75, 15, 2, 25, 3 and 4

I.....male I-Line
T.....#13H captive nut and #14 bevel seat
U.....clamp

[1] specify size then type, i.e. 1½" = 15U

Mount type

BT.....bottom
RT.....right side
LF.....left side
TP.....top
BK.....back
BTR.....remote fitting

Display

DF.....F (Fahrenheit) *standard*
DC.....C (Celsius)

Up-Date Interval

1.....one second (*1 year battery life*)
10.....ten second (*3 year battery life*)

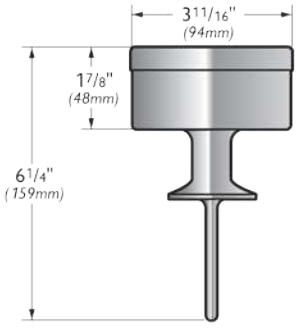
N

Dimensions

LEFT SIDE MOUNT

RIGHT SIDE MOUNT

BACK MOUNT



BOTTOM MOUNT

Ordering code shown with clamp configuration "U". See ordering information for other types available.

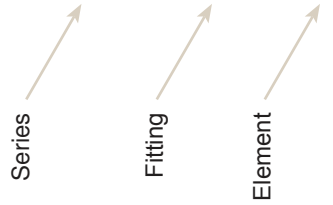
Size	Probe Length [2]	Code
¾"	2-3/8"	75U
1"	2-5/8"	1U
1½"	2-3/4"	15U
2"	3-1/2"	2U
2½"	3-1/2"	25U
3"	3-3/4"	3U
4"	4-1/2"	4U

[2] custom probe lengths are available

Sanitary RTDs and Temperature Transmitters

Model Number Breakdown

RTD - 15U - E1



Ordering Information

Series

RTD.....Sani-Flow resistive temperature device
TT.....Sani-Flow temperature transmitter

Sanitary Fittings

fittings available in 5, 75, 15, 20, 25, 30 and 40

H.....G & H 'H' line male
I.....Cherry-Burrell male I-line
K.....APC 'K' clamp
Q.....Cherry-Burrell Q-line
T.....#13H captive nut and #14 bevel seat
U.....Tri-clamp®

- Specify size, then adapter type such as 15U for 1½" Tri-clamp® adapter
- For special probes add SP and the required probe length at the end of the part number; such as SP2.75 for a 2¾" long probe.

Other Fittings

Specify probe length

A.....air space
M.....umbrella fittings
NPT.....¼", ⅜", ½", ⅝" or ¾" pipe thread
PW.....projectile well with 1¼"-18 UNEF male thread
SP.....split ferrule
VP.....VAT well fitting with #13H captive nut
OF.....no fitting

Element [1]

E1.....single element
E2.....dual element

[1] available for RTD only

N

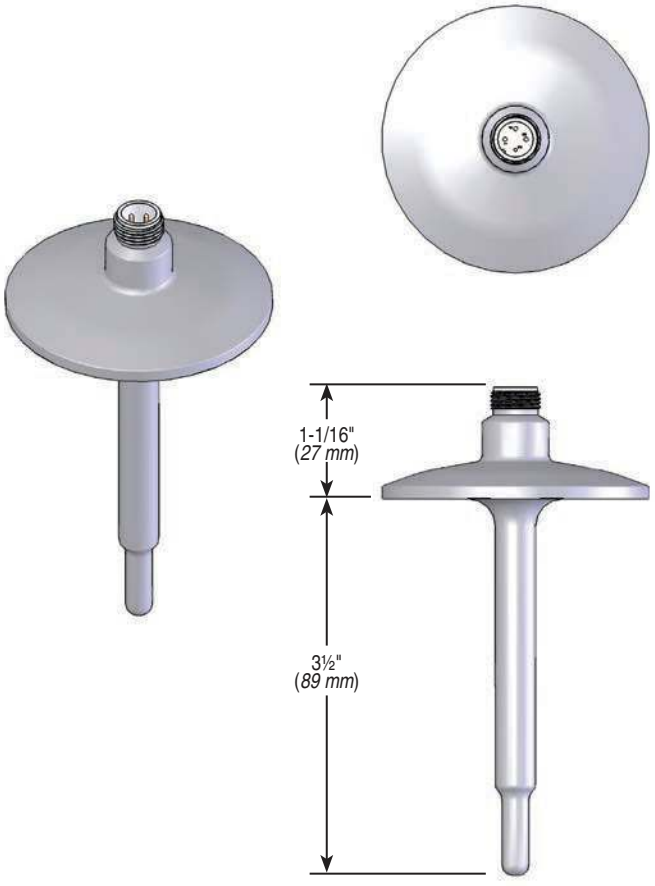
Sanitary RTDs & Temperature Transmitters

sanitary RTD

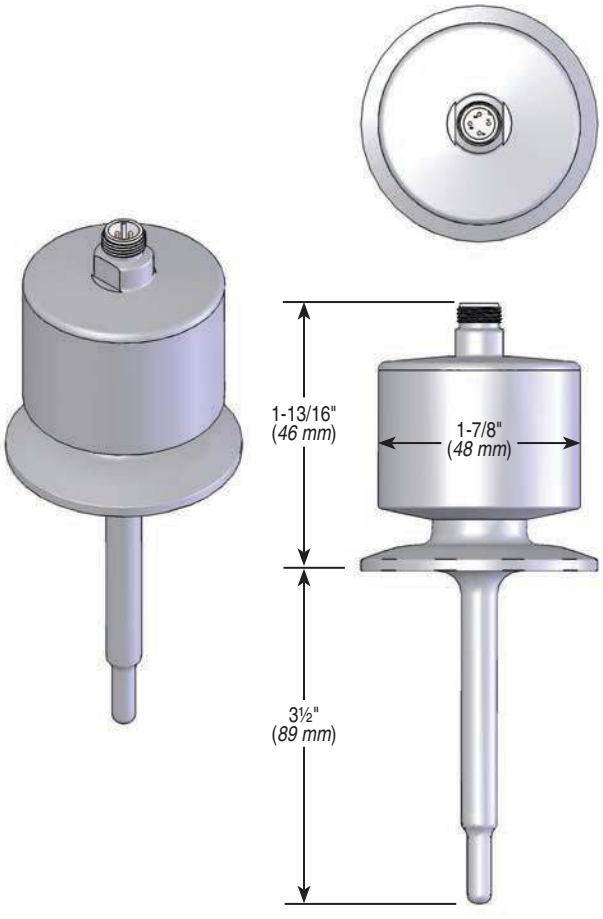
temperature transmitter

Product Specifications:

- 316L wetted surfaces
- exterior surfaces 316L with a near mirror finish
- standard 12mm industrial connector with gold plated contacts for maximum corrosion resistance and cleanability
- sensor elements are accurate up to +/-0.1C
- RTD – temperature range: **-58°F to 392°F**
- TT – temperature range: **-22°F to 302°F**



RTD-20GI-38



TT-20-G1

- *Note: custom lengths are available*

Dixon Sanitary Spray Balls

Product Specifications

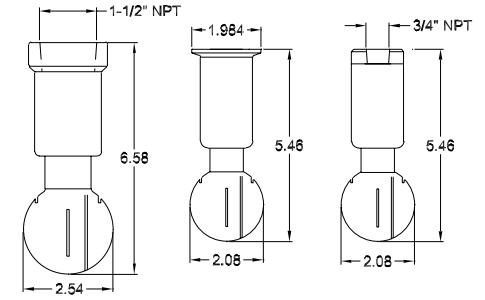
Size range:
- ¾" and 1½" NPT
- 1" and 1½" OD tube
- 1½" clamp

Materials:
- 304 stainless steel
- 316L stainless steel

Finishes:
- mirror-like finish OD

Rotating Spray Balls - *SRH*

Features:
- stainless steel ball bearings to eliminate rust
- ideal for cleaning all types of tanks and vessels
- cleaning solution used to lubricate unit
- connections available: clamp and NPT
- mirror-like finish OD
- spray pattern: 360°



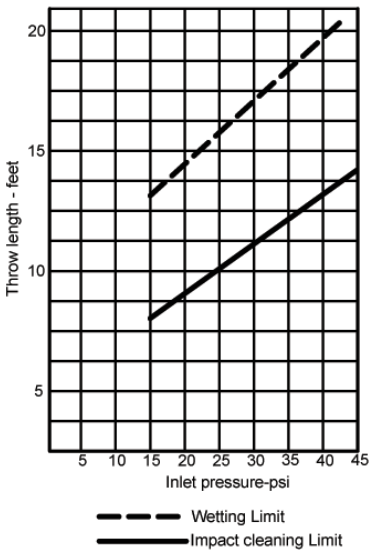
SRH360NPT-R150 SRH360CMP-G150 SRH360NPT-R075
SRH360CMP-R150

Size	Type	*304 Stainless Steel* Part Number	*316L Stainless Steel* Part Number
¾"	NPT	***SRH360NPT-G075***	*---*
1½"	NPT	*---*	***SRH360NPT-R150***
1½"	Clamp	***SRH360CMP-G150***	***SRH360CMP-R150***

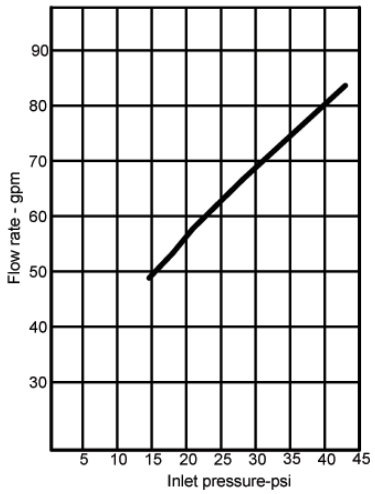
Dimensions are approximate. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Technical Data

Cleaning Radius



Flow Rate



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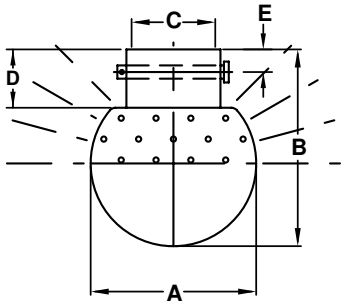
Spray Balls

Stationary Spray Balls - *STC*

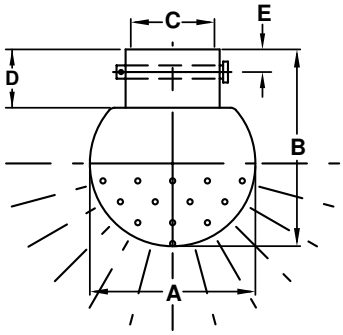
Features:

- typically used in food and beverage for cleaning storage tanks
- various spray patterns available (blanks available as special order)
- stationary - designed to be mounted to a tube or pipe
- 2mm spray holes

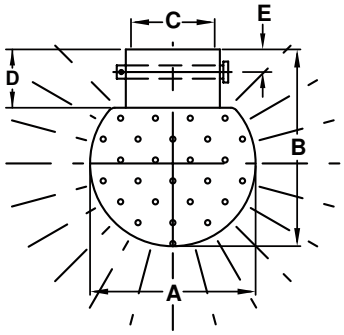
Size	Pin Length	Spray Pattern	A	B	C	D	E	Pin Size	*316L Stainless Steel* Part Number
1"	1.47	360°	2.50	3.04	1.005	.975	.445	.226	***STC-360-R100***
1½"	1.95	360°	2.95	3.55	1.505	1.050	.445	.226	***STC-360-R150***
1"	1.47	180° bottom	3.54	2.95	1.005	.975	.445	.226	***STC-180B-R100***
1½"	1.95	180° bottom	3.54	2.95	1.505	.975	.445	.226	***STC-180B-R150***
1"	1.47	180° top	3.54	2.95	1.005	.975	.445	.226	***STC-180T-R100***
1½"	1.95	180° top	3.54	2.95	1.505	.975	.445	.226	***STC-180T-R150***



180° Top Pattern



180° Bottom Pattern



360° Pattern

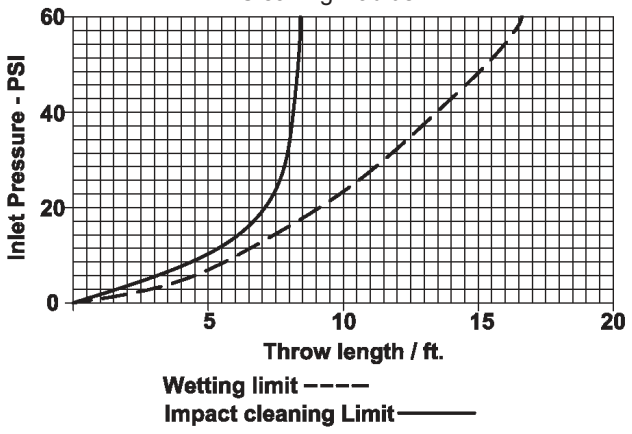
Repair Kits

Size	Part Number
1"	***STC-RK100***
1½"	***STC-RK150***

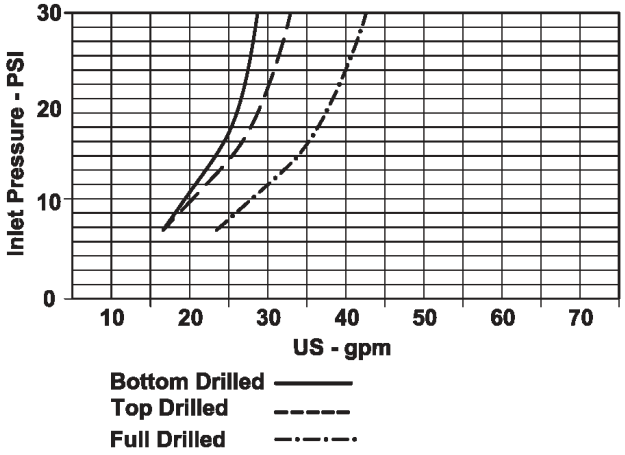
Repair kits contain:
(1) pin
(1) R clip

Technical Data

Cleaning Radius



Flow Rate



Washdown Accessories

Spray Nozzles - AWSG/*BWSG*

Applications:
- For low pressure cleaning, tank and drum cleaning and chemical manufacturing.

Features:
- efficient design for operator comfort
- variable spray pattern from solid stream to 50° hollow cone
- hose connects at base of gun for easy maneuvering
- ½" female NPT inlet
- rubber coated handle protects hands from water temperatures to **150°F**
- **12.5 GPM** flow capacity at **150 PSI**
- *Do not use with steam lines.*

Cover color	Aluminum Part Number	*Brass* Part Number
black	**AWSG**	***BWSG***
white	**AWSG-W**	***BWSG-W***

Swivel Connectors - SSA/BNS/BMAS

Ball Type Swivel x Hose Shank

NPT	Hose ID	Part Number
½"	½"	***SSA44***
½"	⅝"	***SSA54***
½"	¾"	***SSA64***

Features:
- 300 series stainless steel swivel connector for stainless spray nozzles
- 360° ball type swivel adapter helps prevent hose kinking

Straight Swivel x Hose Shank

NPT	Hose ID	Part Number
½"	½"	***BNS44***
¾"	¾"	***BNS64***

Features:
- swivel body
- stainless steel hose shank
- EPDM gasket

Straight Swivel x GHT Thread

NPT	Female GHT	Part Number
½"	¾"	***BMAS974***

Hot Water Washdown Hose - *SWDSHOSE*

Features:
- smooth extruded Chlorobutyl tube
- white, wrapped Neoprene cover (.075" thick), braided textile reinforcement
- furnished with internal stainless steel spring guards at both ends
- ¾" male on one end and ½" male on the other
- working pressure: **250 PSI**
- temperature to: **200°F**

Size	Part Number
⅝" x 25'	***SWDSHOSE25***
⅝" x 50'	***SWDSHOSE50***

O

Washdown Accessories

Stainless Mini Spray Nozzle

Features:
- ½" female NPT inlet
- not for use with steam
- specifically designed as an industrial lightweight nozzle with heavyweight performance
- Nozzle cover is not only durable, but also protects the user from hot surfaces produced by high temperature wash down applications.
- reduces hand fatigue and offers smooth lever action
- variable spray patterns, from fan spray to solid stream
- Water conservation is assured upon release of the lever by the drip-free automatic shutoff feature.
- rated to **150 PSI** / **200°F**
- **9.6 GPM** flow capacity at **100 PSIG**

Stainless Steel with Dark Blue Cover

Part #

DM150SDB

Stainless Spray Nozzle

Features:
- ½" female NPT inlet
- specifically designed to prevent accidental spray
- durable dark blue cover design prevents front-mounted lever from being accidentally activated if nozzle is dropped
- design also reduces hand fatigue and offers smooth lever action
- trigger locking mechanism provides safe and secure method of keeping the nozzle open during any spray pattern
- variable spray patterns, from fan spray to solid stream
- drip-free automatic shut-off feature
- rated to **150 PSI** / **200°F**
- **9.6 GPM** flow capacity at **100 PSIG**

Stainless

Part #

D150SDB

O

Washdown Wand

Features:
- Designed to provide user with a means of 'reaching' desired washdown locations previously deemed unreachable by extending the nozzle by 3'.
- Adjustable spray tip can be changed from fan to solid spray by twisting the tip until the desired flow pattern is achieved.
- quick disconnect feature allows user to quickly connect wand to the nozzles above
- *Minimum pressure is **75 PSI**, wand is not for use with steam.*

300 Series Stainless Steel

Part #

D150S-WAND

Water-Steam Washdown Station

Fail-safe mixing station safely blends steam and cold water for hot water on demand. Should cold water fail, the steam is instantly shut-off.

Features:
- bronze, wall-mounted, control valves
- dial thermometer
- in-line check valves
- ¾" inlet and outlet
- stainless steel hose rack
- mounting plate and hardware
- **150 PSI** maximum, **200°F** maximum.

Part Number
SWDS

Pressure Requirements

Steam Pressure		*Water* Pressure	
Minimum	Maximum	Minimum	Maximum
80 PSI	**150 PSI**	**50 PSI**	**80 PSI**

Hot and Cold Water Mixing Station

Features:
- hot and cold water mixing station
- bronze, wall mounted, control valves (globe style)
- **150 PSI** maximum, **200°F** maximum
- in-line check valves
- ¾" inlet and outlet
- stainless steel hose rack
- mounting plate and hardware

Part Number
WDS1

Rack for Mixing Station

Application:
- designed to hold 50' of ¾" heavy duty industrial grade hose

Features:
- heavy duty stainless steel construction
- stainless steel lag screws
- heavy duty solid brass mounting crowns
- supplied with mounting hardware
- rack fits SWDS and WDS1 mixing stations

Part Number
WDSR

Maintenance

Jax Food Grade Penetrating Oil

Features:
- NSF H1 registered for incidental food contact
- colorless, odorless and tasteless
- quickly frees corroded parts
- protects metal from corrosion
- lubricates moving parts

Description	Part Number
16 fl.oz. trigger spray bottle	***LUPO-16***

PurGel Klear

Features:
- meets FDA 21 CFR Part 172: Food Additive Permitted for direct addition to food for human consumption and Part 178: Indirect Food Additives
- pure white, FDA approved kosher petrolatum for use as a release agent
- use for any assembly, barrier or release applications holding O-rings, gaskets, coating cutting blades or augers

Description	Part Number
8 oz. squeeze tube	***LUPG-08***

Food Grade Anti-Seize

Features:
- NSF H1 registered for incidental food contact
- non-toxic and non-drying
- lubricates threads
- forms leak-proof seals
- prevents corrosion
- resists water and steam

Description	Part Number
8 oz. bottle with brush-top cap	***LUAS-08***

Stainless Steel Cleaner & Polish

Features:
- A7 Registered for use in federally-inspected facilities
- repels water – beads up like wax
- provides high-gloss protective shield
- dissolves tarnish
- rubs in completely, with no dust or residue

Description	Part Number
14 oz. aerosol can	***LUCP-14***

All products shipped with MSDS (Material Safety Data Sheets)

Swivels

Product Specifications

Size range:
- 1" - 4" Tube OD

Materials:
- 316L stainless steel
- PTFE with silicone seals

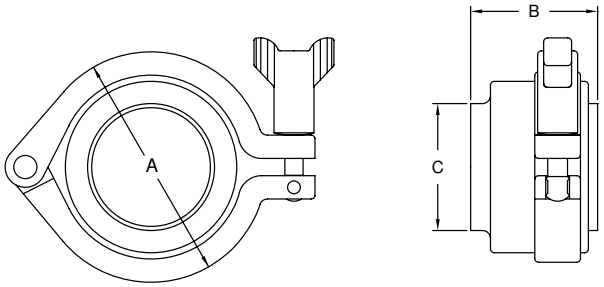
Finish:
- sanitary finish ID and OD

Features:
- available in clamp and weld configurations
- optional elastomers available

pressure ratings

Size	PSI at 70°F	PSI at 250°F
1"	500	300
1½"	500	300
2"	450	250
2½"	400	200
3"	350	175
4"	300	150

Straight Swivel - SJSS



straight clamp dimensions - style 20

Part Number	Size	A	B	C
SJSS100CC-20	1.00	2.56	3.00	1.00
SJSS150CC-20	1.50	2.56	3.00	1.50
SJSS200CC-20	2.00	3.09	3.00	2.00
SJSS250CC-20	2.50	3.44	3.00	2.50
SJSS300CC-20	3.00	3.94	3.00	3.00
SJSS400CC-20	4.00	5.08	4.19	4.00

straight weld connection dimensions - style 20

Part Number	Size	A	B	C
SJSS100BB-20	1.00	2.56	2.00	1.00
SJSS150BB-20	1.50	2.56	2.00	1.50
SJSS200BB-20	2.00	3.09	2.00	2.00
SJSS250BB-20	2.50	3.44	2.00	2.50
SJSS300BB-20	3.00	3.94	2.00	3.00
SJSS400BB-20	4.00	5.08	2.94	4.00

P

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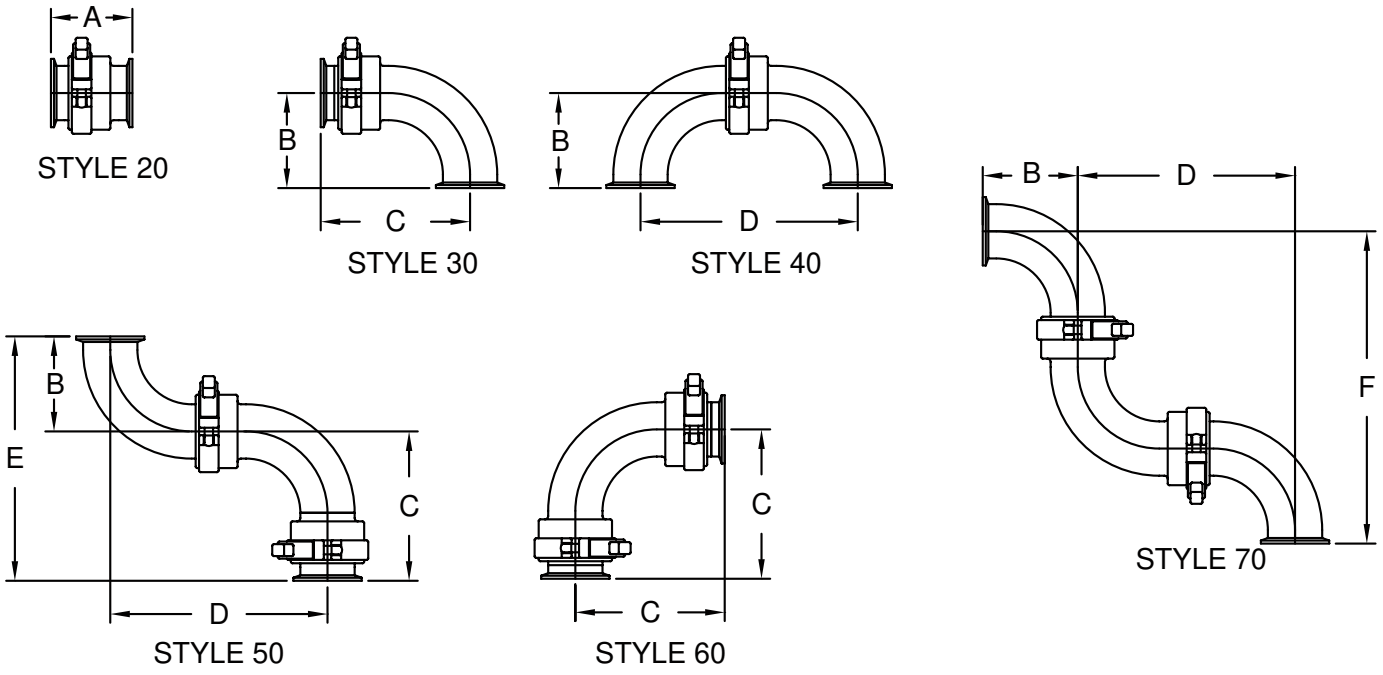
All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Straight Swivels - SJSS
Configurations



clamp joint dimensions

Part Number	Size	A	B	C	D	E	F
SJSS100CC-*	1"	3.00	2.00	4.00	5.00	6.00	7.00
SJSS150CC-*	1½"	3.00	2.75	4.75	6.50	7.50	9.25
SJSS200CC-*	2"	3.00	3.50	5.50	8.00	9.00	11.50
SJSS250CC-*	2½"	3.00	4.25	6.25	9.50	10.50	13.75
SJSS300CC-*	3"	3.00	5.00	7.00	11.00	12.00	16.00
SJSS400CC-*	4"	5.19	6.63	9.63	14.94	15.94	21.56

P

* For all other styles, please contact Dixon Sanitary for pricing

Swivels

Bill of Material

Item	Description	Material	Quantity
1	clamp	304	1
2	collar cap	316L	1
3	collar	PTFE	1
4	male end	316L	1
5	diameter seal	Silicone	1
6	friction seal	PTFE	1
7	female seal	Silicone	1
8	female end	316L	1

P

Cam and Groove

Cam & Groove Fitting Selection

Product Specifications

Size range:
- 1" - 4"

Materials:
- 316L stainless steel
- (316) CF8M
- aluminum

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Q

Cam and Groove

Dixon

Features:
- precision machined to rigid tolerances
- durable stainless steel cam arm pins will not rust or bind, for greater strength and safety
- recess holds gasket firmly in place - ensures proper placement
- long shank design allows proper banding, thus eliminating the major cause of hose damage

Operation of Cam and Groove

1. To make connection, simply slide the adapter into the coupler and with normal hand pressure, press the cam levers down.
2. Uncoupling is as quick and simple as coupling. Just lift the cam arms and remove the adapter.

Ordering System

200 - A - AL

- material
- style
- size

Size represents the coupler or adapter and hose or pipe end. (i.e. 200 = 2") If the coupling is a reducing size, the coupler or adapter is the first size. (i.e. 4030-C is 4" coupler to 3" hose shank).

Specifications on Dixon Cam and Groove

Q

Specifications:
- Dixon cam and groove couplers and adapters are produced to interchange with all product produced to Commercial Item Description A-A-59326B.
- No standard exists for the ½" and 8" fittings, and generally these sizes do not interchange with other manufacturers.
- Dust caps and dust plugs are ***not*** to be used in pressure applications for safety and environmental reasons.
- *Designed for use with liquids*, consult Dixon for specific recommendations.

Pressure Ratings:

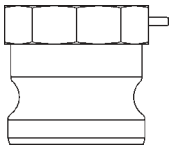
Recommendations based on the use of mating Dixon fittings at ambient temperature (**70°F**) with standard Buna-N Seal installed. For use at elevated temperature or other unusual operating conditions, consult the factory. Dixon, Boss-Lock and EZ Boss-Lock couplers and adapters maximum working pressure are as follows:

Size	½"	¾" thru 2"	2½"	3"	4"	5" and 6"	8"
PSI	**150**	**250**	**150**	**125**	**100**	**75**	**50**
PSI (working pressure with King Crimp ferrule system)	**150**	**250**	**150**	**150**	**150**	**75**	**50**

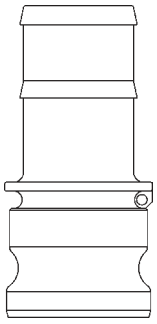
All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Cam and Groove Line Drawings

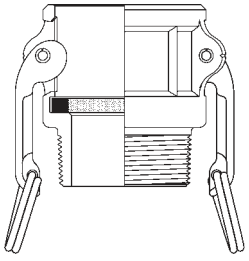
Line drawings are representative of the Dixon line of cam and groove.



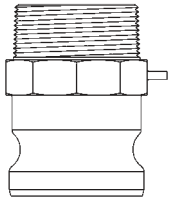
Type A
female NPT x male adapter



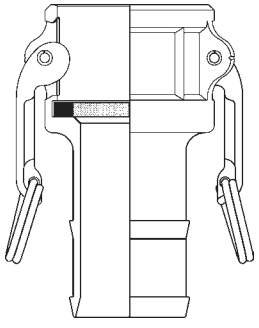
Type E
hose shank x male adapter



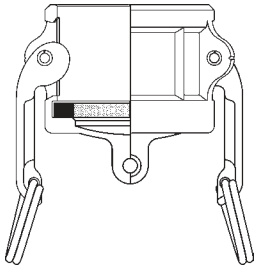
Type B
female coupler x male NPT



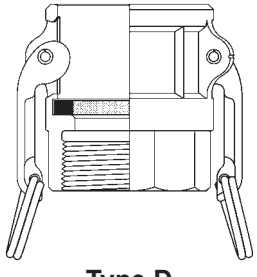
Type F
male NPT x male adapter



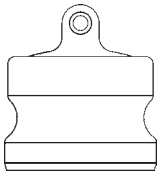
Type C
female coupler x hose shank



Type DC
dust cap



Type D
female coupler x female NPT



Type DP
dust plug

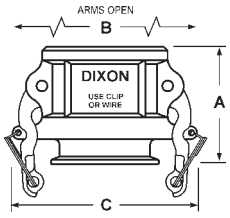
Dust caps and dust plugs are ***not*** to be used in pressure applications for safety and environmental reasons.

Under no circumstances should cam and groove couplings be used for compressed air or steam service**!**

Cam and Groove Clamp Adapters

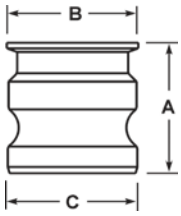
Coupler x Clamp End - *RC*

Tube OD	A	B	C	*316 Stainless Steel* Part Number
1½"	2.687	7.875	3.937	***RC150SE***
2"	2.812	8.250	4.312	***RC200SE***
3"	3.000	10.000	5.625	***RC300SE***



Adapter x Clamp End - *RE*

Tube OD	A	B	C	*316 Stainless Steel* Part Number
1½"	2.281	2.000	2.093	***RE150SE***
2"	2.593	2.500	2.468	***RE200SE***
3"	2.750	3.562	3.593	***RE300SE***



Dixon Weld to Tube Cam and Groove

Features:

- 316 stainless steel investment casting
- designed to be welded to standard sanitary tubing

Boss-Lock coupler x weld to tube end

Size	*316 Stainless Steel* Part Number
1"	***RC100BT***
1½"	***RC150BT***
2"	***RC200BT***
3"	***RC300BT***

Adapter x weld to tube end

Size	*316 Stainless Steel* Part Number
1"	***RE100BT***
1½"	***RE150BT***
2"	***RE200BT***
3"	***RE300BT***

Global Type A Adapters

Size	*A380 Permanent Mold Aluminum* Part Number	*316 Investment Cast Stainless Steel* Part Number
½"	***G50-A-AL***	***---***
¾"	***G75-A-AL***	***G75-A-SS***
1"	***G100-A-AL***	***G100-A-SS***
1¼"	***G125-A-AL***	***G125-A-SS***
1½"	***G150-A-AL***	***G150-A-SS***
2"	***G200-A-AL***	***G200-A-SS***
2½"	***G250-A-AL***	***G250-A-SS***
3"	***G300-A-AL***	***G300-A-SS***
4"	***G400-A-AL***	***G400-A-SS***

Global Type E Adapters

Size	*A380 Permanent Mold Aluminum* Part Number	*316 Investment Cast Stainless Steel* Part Number
½"	***G50-E-AL***	***---***
¾"	***G75-E-AL***	***G75-E-SS***
1"	***G100-E-AL***	***G100-E-SS***
1¼"	***G125-E-AL***	***G125-E-SS***
1½"	***G150-E-AL***	***G150-E-SS***
2"	***G200-E-AL***	***G200-E-SS***
2½"	***G250-E-AL***	***G250-E-SS***
3"	***G300-E-AL***	***G300-E-SS***
4"	***G400-E-AL***	***G400-E-SS***

Global Type F Adapters

Size	*A380 Permanent Mold Aluminum* Part Number	*316 Investment Cast Stainless Steel* Part Number
½"	***G50-F-AL***	***---***
¾"	***G75-F-AL***	***G75-F-SS***
1"	***G100-F-AL***	***G100-F-SS***
1¼"	***G125-F-AL***	***G125-F-SS***
1½"	***G150-F-AL***	***G150-F-SS***
2"	***G200-F-AL***	***G200-F-SS***
2½"	***G250-F-AL***	***G250-F-SS***
3"	***G300-F-AL***	***G300-F-SS***
4"	***G400-F-AL***	***G400-F-SS***

Global Type DP Dust Plugs

Size	*A380 Permanent Mold Aluminum* Part Number	*316 Investment Cast Stainless Steel* Part Number
½"	***G50-DP-AL***[1]	**---**
¾"	***G75-DP-AL***	***G75-DP-SS***
1"	***G100-DP-AL***	***G100-DP-SS***
1¼"	***G125-DP-AL***	***G125-DP-SS***
1½"	***G150-DP-AL***	***G150-DP-SS***
2"	***G200-DP-AL***	***G200-DP-SS***
2½"	***G250-DP-AL***	***G250-DP-SS***
3"	***G300-DP-AL***	***G300-DP-SS***
4"	***G400-DP-AL***	***G400-DP-SS***

[1] *Does not interchange in the ½" size* with Dixon or Boss-Lock style cam and groove.

Global Type B Couplers

Size	*A380 Permanent Mold Aluminum* Part Number	*316 Investment Cast Stainless Steel* Part Number
½"	***G50-B-AL***[1, 2]	**---**
¾"	***G75-B-AL***[2]	***G75-B-SS***
1"	***G100-B-AL***[2]	***G100-B-SS***
1¼"	***G125-B-AL***	***G125-B-SS***
1½"	***G150-B-AL***	***G150-B-SS***
2"	***G200-B-AL***	***G200-B-SS***
2½"	***G250-B-AL***	***G250-B-SS***
3"	***G300-B-AL***	***G300-B-SS***
4"	***G400-B-AL***	***G400-B-SS***

[1] *Does not interchange in the ½" size* with Dixon or Boss-Lock style cam and groove.
[2] supplied with stainless steel handles

Global Type C Couplers

Size	*A380 Permanent Mold Aluminum* Part Number	*316 Investment Cast Stainless Steel* Part Number
½"	***G50-C-AL***[1, 2]	**---**
¾"	***G75-C-AL***[2]	***G75-C-SS***
1"	***G100-C-AL***[2]	***G100-C-SS***
1¼"	***G125-C-AL***	***G125-C-SS***
1½"	***G150-C-AL***	***G150-C-SS***
2"	***G200-C-AL***	***G200-C-SS***
2½"	***G250-C-AL***	***G250-C-SS***
3"	***G300-C-AL***	***G300-C-SS***
4"	***G400-C-AL***	***G400-C-SS***

[1] *Does not interchange in the ½" size* with Dixon or Boss-Lock style cam and groove.
[2] supplied with stainless steel handles

Global Type D Couplers

Size	*A380 Permanent Mold Aluminum* Part Number	*316 Investment Cast Stainless Steel* Part Number
½"	***G50-D-AL***[1, 2]	**---**
¾"	***G75-D-AL***[2]	***G75-D-SS***
1"	***G100-D-AL***[2]	***G100-D-SS***
1¼"	***G125-D-AL***	***G125-D-SS***
1½"	***G150-D-AL***	***G150-D-SS***
2"	***G200-D-AL***	***G200-D-SS***
2½"	***G250-D-AL***	***G250-D-SS***
3"	***G300-D-AL***	***G300-D-SS***
4"	***G400-D-AL***	***G400-D-SS***

[1] *Does not interchange in the ½" size* with Dixon or Boss-Lock style cam and groove.
[2] come with stainless steel handles

Global Type DC Dust Caps

Size	*A380 Permanent Mold Aluminum* Part Number	*316 Investment Cast Stainless Steel* Part Number
½"	***G50-DC-AL***[1, 2]	**---**
¾"	***G75-DC-AL***[2]	***G75-DC-SS***
1"	***G100-DC-AL***[2]	***G100-DC-SS***
1¼"	***G125-DC-AL***	***G125-DC-SS***
1½"	***G150-DC-AL***	***G150-DC-SS***
2"	***G200-DC-AL***	***G200-DC-SS***
2½"	***G250-DC-AL***	***G250-DC-SS***
3"	***G300-DC-AL***	***G300-DC-SS***
4"	***G400-DC-AL***	***G400-DC-SS***

[1] *Does not interchange in the ½" size* with Dixon or Boss-Lock style cam and groove.
[2] come with stainless steel handles

Replacement Handle Assemblies for Global Couplers

For Aluminum and Brass Global Couplers

investment stainless

Fits on Sizes	*Investment Stainless* Part Number
¾"	***G75HRP***
1"	***G100HRP***
1½" - 2½"	***G152HRPSI***
3" and 4"	***G34HRPSI***

forged brass

Fits on sizes	*Forged Brass* Part #
1¼" - 2½"	***G152HRP***
3" and 4"	***G34HRP***

For Stainless Steel Global Couplers

investment stainless

Fits on Sizes	*Investment Stainless* Part Number
¾"	***G75HRPSS***
1"	***G100HRPSS***
1¼" - 2½"	***G125250HRPSS***
3" and 4"	***G300400HRPSS***

Q

Reducing Cam and Groove Couplings

- In reducing couplings, the cam and groove end is the first size given in the part number (i.e. a 4030-C-AL is a 4" coupler to a 3" hose shank.

Type A

- Pressure rating is based on the seal of the mating part. See ratings on page 145.

male adapter x female NPT

Size	*356T6 Aluminum* Part Number	*316 Stainless Steel* Part Number
2" x 3"	***2030-A-AL***	***2030-A-SS***
3" x 2"	***3020-A-AL***	***3020-A-SS***
3" x 4"	***3040-A-AL***	***---***
4" x 3"	***4030-A-AL***	***4030-A-SS*** [1]

[1] Part produced as a welded fabrication.

Type F

- Pressure rating is based on the seal of the mating part. See ratings on page 145.

male adapter x male NPT

Size	*356T6 Aluminum* Part Number	*316 Stainless Steel* Part Number
1½" x 2"	***1520-F-AL***	***---***
3" x 2"	***3020-F-AL***	***3020-F-SS***
3" x 4"	***3040-F-AL***	***---***
4" x 3"	***4030-F-AL***	***4030-F-SS*** [1]

[1] Part produced as a welded fabrication.

Type B

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 153-154.

female coupler x male NPT

Size	*356T6 Aluminum* Part Number	*316 Stainless Steel* Part Number
3" x 2"	***3020-B-AL***	***3020-B-SS*** [1]
3" x 4"	***3040-B-AL***	***---***
4" x 3"	***4030-B-AL***	***4030-B-SS*** [1]

[1] Parts are produced as a welded fabrication.

Q

Dixon Reducing Cam and Groove Couplings

Features:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 153-154.
- In reducing cam and groove couplings, the coupler is the first size in the part number.

female coupler x male NPT

Size	*356T6 Aluminum* Part Number	*316 Stainless Steel* Part Number
1½" x 2"	***1520-DA-AL***	***1520-DA-SS***
2" x 1½"	***2015-DA-AL***	***2015-DA-SS***
2" x 3"	***2030-DA-AL***	***2030-DA-SS***
3" x 2"	***3020-DA-AL***	***3020-DA-SS***
3" x 4"	***3040-DA-AL***	***3040-DA-SS***
4" x 2"	***4020-DA-AL***	***4020-DA-SS*** [1]
4" x 3"	***4030-DA-AL***	***4030-DA-SS***

[1] Part produced as a welded fabrication.

Dixon Spool Adapters

increaser / reducer

same size

Feature:
- Pressure rating is based on the seal of the mating part. See ratings on page 145.

adapter x adapter

Size	*356T6 Aluminum* Part Number	*316 Stainless Steel* Part Number
2"	***200-AA-AL***	***200-AA-SS***
2" x 3"	***2030-AA-AL***	***2030-AA-SS***
3"	***300-AA-AL***	***300-AA-SS***
3" x 4"	***3040-AA-AL***	***3040-AA-SS***[1]
4"	***400-AA-AL***	***400-AA-SS***

[1] Part produced as a welded fabrication.

Dixon Spool Couplers

reducer / increaser

same size

Feature:
- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 153-154.

coupler x coupler

Size	*356T6 Aluminum* Part Number	*316 Stainless Steel* Part Number
2"	***200-DD-AL***	***200-DD-SS***
2" x 3"	***2030-DD-AL***	***2030-DD-SS***
3"	***300-DD-AL***	***300-DD-SS***
3" x 4"	***3040-DD-AL***	***3040-DD-SS***[1]
4"	***400-DD-AL***	***400-DD-SS***

[1] Part produced as a welded fabrication.

Q

Adapters and Couplers x 150# Flanged Drilling

Features:
- Aluminum flanges are flat faced.
- Stainless steel flanges are raised face.
- Flanges have the same bolt hole pattern as an ANSI 150 lb flange. The thickness may vary.

Dixon adapter x 150# flange

Size	*Aluminum* Part Number	Approximate Flange Thickness	*316 Stainless Steel* Part Number	Approximate Flange Thickness
1½"	**---**	---	***150-AL-SS***	11/16"
2"	***200-AL-AL***	3/4"	***200-AL-SS***	7/16"
3"	***300-AL-AL***	5/8"	***300-AL-SS***	7/16"
4"	***400-AL-AL***	5/8"	***400-AL-SS***	7/16"

Feature:
- global product made to Dixon specifications

Global Dixon adapter x 150# ANSI flange

Size	*316 Stainless Steel* Part #	Flange Thickness
2"	***200-AL-SSANSI***	¾"
3"	***300-AL-SSANSI***	15/16"

Feature:
- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 153-154.

Dixon coupler x 150# flange

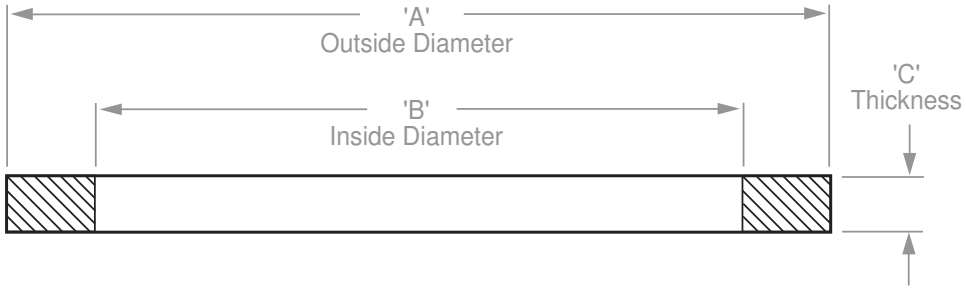
Size	*356T6 Aluminum* Part Number	Approximate Flange Thickness	*316 Stainless Steel* Part Number	Approximate Flange Thickness
1½"	**---**	---	***150-DL-SS***	25/32"
2"	***200-DL-AL***	3/4"	***200-DL-SS***	7/16"
3"	***300-DL-AL***	15/16"	***300-DL-SS***	7/16"
4"	***400-DL-AL***	15/16"	***400-DL-SS***	7/16"

Cam and Groove Gaskets

Feature:
- White neoprene and white Buna-N gaskets all contain FDA approved materials.

Size	*Buna-N* Part Number	*FKM* Part Number	*Neoprene* Part Number	*white Neoprene* Part Number	*white Buna-N* Part Number	*Silicone* Part Number
½"	***50-G-BU***	***50-G-VI***	**---**	**---**	**---**	**---**
¾"	***75-G-BU***	***75-G-VI***	***75-G-NE***	**---**	**---**	**---**
1"	***100-G-BU***	***100-G-VI***	***100-G-NE***	**---**	**---**	**---**
1¼"	***125-G-BU***	***125-G-VI***	***125-G-NE***	**---**	**---**	**---**
1½"	***150-G-BU***	***150-G-VI***	***150-G-NE***	***150-G-WNE***	**---**	***150-G-SIL***
2"	***200-G-BU***	***200-G-VI***	***200-G-NE***	***200-G-WNE***	**---**	***200-G-SIL***
2½"	***250-G-BU***	***250-G-VI***	***250-G-NE***	**---**	**---**	**---**
3"	***300-G-BU***	***300-G-VI***	***300-G-NE***	***300-G-WNE***	***300-G-WB***	***300-G-SIL***
4"	***400-G-BU***	***400-G-VI***	***400-G-NE***	***400-G-WNE***	***400-G-WB***	***400-G-SIL***

Dixon Cam and Groove Gasket Dimensions



Features:

- The following are the nominal dimensions for Dixon's elastomeric cam and groove gaskets.
- The ID's of the PTFE envelope gaskets and the PTFE accordion gaskets are *1/16" smaller than* the ID's for the elastomeric gaskets shown below.
- Thickness of PTFE accordion gaskets may vary from chart below.

Size	Part Number	'A'	'B'	'C'
½"	***50-G***[1]	1-1/32"	11/16"	.156"
¾"	***75-G***	1-3/8"	7/8"	.218"
1"	***100-G***	1-9/16"	1-1/16"	.250"
1¼"	***125-G***	1-15/16"	1-23/64"	.250"
1½"	***150-G***	2-3/16"	1-5/8"	.250"
2"	***200-G***	2-5/8"	2"	.250"
2½"	***250-G***	3-⅛"	2-3/8"	.250"
3"	***300-G***	3-23/32"	3"	.250"
4"	***400-G***	4-7/8"	4"	.250"

[1] No interchange standard exists for the ½" fittings. Generally, these sizes do not interchange with other manufacturer's products. As such, the gaskets in these sizes are not suitable for use in other manufacturers' couplings.

Dixon Cam and Groove Gasket Color Codes

Gasket Code	Gasket Material	Material Color	Color code stripes (*appear on the OD of the gasket or filler*)
-BU	Buna-N (*standard in all metal fittings*)	black	1 blue
-VI	FKM	black	1 yellow
-NE	Neoprene	black	1 red
-WNE	White Neoprene, *FDA approved material*	white	none
-WB	White Buna N, *FDA approved material*	white	blue
-SIL	Silicone	red	none

Since other manufacturer's coding systems vary,
this chart should not be used as a reference in identifying gaskets of unknown origin.

Hose Fittings

Product Specifications

Size range:
- fittings: 1" - 4"
- clamps: 7/32" - 13"
- tubing: 3/8" OD - 2" OD

Materials:
- fittings: 304 stainless steel, 316 stainless steel, plated steel
- clamps: SAE 300 series stainless steel
- tubing: clear PVC

Hose Fitting Selection

Index

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Internal Expansion Ferrules.....157
Crimp Stems.....159
Crimp Ferrules.....160
Crimp Recommendations.....161-163

R

True ID

Application:
- Suitable for conveying acids, chemicals, foods and pharmaceuticals.

Features:
- range: ¼" to 2"
- operating temperature: **-100°F** to +**450°F** (-73°C to +232°C)
- **boxed coils (bulk, per ft. lengths and full reels available from Maryland and Texas, call Dixon Specialty Products at 888.226.4673)**
- stainless braided
- Other braids including synthetic, extruded and heat shrink coverings are available upon request.

True ID Fittings

Crimp collars for all True ID fittings are sold separately

Mini Sanitary Tri-Clamp

Size	*316 Stainless Steel* Part #	Box Qty
1/2"	***TCMR-T08***	10
3/4"	***TCMR-T12***	10

- contact Dixon Specialty Products for GSM and PTFE hose assemblies

Sanitary Tri-Clamp

Hose Size	Clamp Size	*316 Stainless Steel* Part #	Box Qty
1/2"	1"	***TCR-T08-16***	10
1/2"	1½"	***TCR-T08-24***	10
3/4"	1½"	***TCR-T12-24***	10
1"	1"	***TCR-T16-16***	10
1"	1½"	***TCR-T16-24***	10
1½"	1½"	***TCR-T24-24***	10
2"	2"	***TCR-T32-32***	10

Flange Retainers

- for use with lap joint flanges, see page 726 in DPL116

Size	*316 Stainless Steel* Part #	*316 Stainless Steel PTFE Encapsulated* Part #	Box Qty
1/2"	***FRR-T08***	***---***	10
3/4"	***FRR-T12***	***FRRE-T12***	10
1"	***FRR-T16***	***FRRE-T16***	10
1¼"	***FRR-T20***	***FRRE-T20***	10
1½"	***FRR-T24***	***FRRE-T24***	10
2"	***FRR-T32***	***FRRE-T32***	10

R

CIP Internal Expansion (IX) Sanitary Style Hose Couplings

Application:
- Flow Chief Sanitary fittings are used in the food, dairy and beverage industries.

Features:
- Clean-In-Place (CIP) compliant
- Flow Chief internal expansion (IX) fittings are only to be used with Flow Chief stainless steel ferrules.

Sanitary Clamp End Stems

Features:
- see pages 26-32 for sanitary style gaskets
- see pages 7-9 for sanitary style clamps
- special plug is required to expand CIP compliant fittings
- special adapter plate is required to expand 1½" CIP compliant fittings
- 3A compliant when assembled by 3A authorized hose shop

Size	*304 Stainless Steel* Part #
1½"	***IXSE24-3A***
2"	***IXSE32-3A***
3"	***IXSE48-3A***

Tube Weld End Stem

Feature:
- special plug is required to expand CIP compliant fittings

Size	*304 Stainless Steel* Part #
2"	***IXPE32-3A***

Special Expansion Plug for CIP Compliant IX Fittings

Hose Size	*304 Stainless Steel* Part #
1½"	***IXFDPLG137***
2"	***IXFDPLG187***
3"	***IXFDPLG287***

Flow Chief Ferrules

Feature:
- the ferrule ID's are designed in increments of 1/16"

Size	Hose OD From:	Hose OD To:	*304 Stainless Steel* Part #
1½"	1-56/64"	1-59/64"	***24PFX1.937***
	1-60/64"	1-63/64"	***24PFX2.000***
	2"	2-3/64"	***24PFX2.062***
	2-4/64"	2-7/64"	***24PFX2.125***
	2-8/64"	2-11/64"	***24PFX2.187***
	2-12/64"	2-15/64"	***24PFX2.250***
	2-16/64"	2-19/64"	***24PFX2.312***[2]
2"	2-28/64"	2-31/64"	***32PFX2.500***
	2-32/64"	2-35/64"	***32PFX2.562***
	2-36/64"	2-39/64"	***32PFX2.625***
	2-40/64"	2-43/64"	***32PFX2.687***
	2-44/64"	2-47/64"	***32PFX2.750***
	2-48/64"	2-51/64"	***32PFX2.812***
	2-52/64"	2-55/64"	***32PFX2.875***
	2-56/64"	2-59/64"	***32PFX2.937***
3"	3"	3-3/64"	***40PFX3.062***
	3-4/64"	3-7/64"	***40PFX3.125***

Size	Hose OD From:	Hose OD To:	*304 Stainless Steel* Part #
3"	3-8/64"	3-11/64"	***40PFX3.187***
	3-12/64"	3-15/64"	***40PFX3.250***
	3-16/64"	3-19/64"	***40PFX3.312***
	3-20/64"	3-23/64"	***40PFX3.375***
	3-28/64"	3-31/64"	***40PFX3.500***
	3-32/64"	3-35/64"	***48PFX3.562***
	3-36/64"	3-39/64"	***48PFX3.625***
	3-40/64"	3-43/64"	***48PFX3.687***
	3-44/64"	3-47/64"	***48PFX3.750***
	3-48/64"	3-51/64"	***48PFX3.812***
	3-52/64"	3-55/64"	***48PFX3.875***
	3-56/64"	3-59/64"	***48PFX3.937***
	3-60/64"	3-63/64"	***48PFX4.000***
4"	4"	4-3/64"	***48PFX4.062***
	4-4/64"	4-7/64"	***48PFX4.125***
	4-36/64"	4-39/64"	***64PFX4.625***
	4-40/64"	4-43/64"	***64PFX4.687***
	4-44/64"	4-47/64"	***64PFX4.750***
	4-48/64"	4-51/64"	***64PFX4.812***
	4-52/64"	4-55/64"	***64PFX4.875***
	4-56/64"	4-59/64"	***64PFX4.937***

[1] 1½" and 2" ferrules do not have serrations on the ID
[2] consult Dixon factory for working pressure
[3] Flow Chief stainless steel ferrules are only to be used with Flow Chief internal expansion (IX) fittings

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Internal Expansion (IX) Sanitary Style Hose Couplings

Features:
- sanitary clamp style end
- Flow Chief internal expansion (IX) fittings are only to be used with Flow Chief stainless steel ferrules.
- see pages 26-32 for sanitary style gaskets
- see pages 7-9 for sanitary style clamps

Size	*304 Stainless Steel* Part #
1½"	***IXSE24***
2"	***IXSE32***
2½"	***IXSE40***
3"	***IXSE48***
4"	***IXSE64***

Internal Expansion (IX) Male NPT Hose Couplings

Feature:
- Flow Chief internal expansion (IX) fittings are only to be used with Flow Chief stainless steel ferrules.

Size	*304 Stainless Steel* Part #
1½"	***IXMS24***
2"	***IXMS32***
2½"	***IXMS40***
3"	***IXMS48***
4"	***IXMS64***

Internal Expansion (IX) Bevel Seat Hose Couplings

Features:
- Flow Chief internal expansion (IX) fittings are only to be used with Flow Chief stainless steel ferrules
- see page 53-54 for bevel seat gaskets

Female Shank

Feature:
- only use with the IXAN nuts shown below

Size	*304 Stainless Steel* Part #
1½"	***IXFS24***
2"	***IXFS32***
2"	***IXFS32-3A***[1]
2½"	***IXFS40***
3"	***IXFS48***
4"	***IXFS64***

[1] must use plug part # IXFDPLG187

Threaded Hex Nuts

series 13H *(modified)*

Size	*304 Stainless Steel* Part #
1½"	***IXAN24***
2"	***IXAN32***
2½"	***IXAN40***
3"	***IXAN48***[1]
4"	***IXAN64***

[1] modified for use on CBSR300: ***IXAN300***

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Sanitary Style Crimp Stems

Sanitary End x Hose Shank

Features:
- sanitary style end
- Dixon's sanitary crimp stems are only to be used with Dixon sanitary stainless steel crimp ferrules

Size	*316 Stainless Steel* Part Number
1"	***CSSR100***
1½"	***CSSR150***
2"	***CSSR200***
3"	***CSSR300***
4"	***CSSR400***

Female Bevel Seat End x Hose Shank

- only to be used with IXAN nuts on page 158

Size	Nut Used	*316 Stainless Steel* Part Number
1"	13H-G100	***CBSR100***
1½"	IXAN24	***CBSR150***
2"	IXAN32	***CBSR200***
3"	IXAN300	***CBSR300***
4"	IXAN64	***CBSR400***

Female I-Line End x Hose Shank

Size	*316 Stainless Steel* Part Number
1½"	***CILR150***
2"	***CILR200***
3"	***CILR300***
4"	***CILR400***

Tube Weld End x Hose Shank

Size	*316 Stainless Steel* Part Number
1½"	***CTER150***
2"	***CTER200***
3"	***CTER300***
4"	***CTER400***

Holedall DIN External Crimp Stems

Male Stem

Size	*316 Stainless Steel* Part #
1½"	***HA0235***
2"	***HA0236***
3"	***HA0238***

Female Stem

Size	*316 Stainless Steel* Part #
1½"	***HA0240***
2"	***HA0241***
3"	***HA0243***

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Sanitary Crimp Ferrules

Features:
- manufactured in AISI 304 stainless steel
- ferrules have a surface finish of 63 or better

Hose ID	Hose OD from	Hose OD to	*304 Stainless Steel* Part Number
1"	1-26/64"	1-28/64"	***F16G-1453***
	1-29/64"	1-31/64"	***F16G-1500***
	1-32/64"	1-34/64"	***F16G-1547***
	1-35/64"	1-37/64"	***F16G-1594***
	1-38/64"	1-40/64"	***F16G-1641***
	1-58/64"	1-61/64"	***F24G-1969***
1½"	1-62/64"	2-1/64"	***F24G-2031***
	2-2/64"	2-5/64"	***F24G-2094***
	2-6/64"	2-9/64"	***F24G-2156***
2"	2-30/64"	2-33/64"	***F32G-2531***
	2-34/64"	2-37/64"	***F32G-2594***
	2-38/64"	2-41/64"	***F32G-2656***
	2-42/64"	2-45/64"	***F32G-2719***
3"	3-39/64"	3-42/64"	***F48G-3625***
	3-40/64"	3-43/64"	***F48G-3688***
	3-44/64"	3-47/64"	***F48G-3750***
	3-48/64"	3-51/64"	***F48G-3813***
	3-52/64"	3-55/64"	***F48G-3875***
	3-56/64"	3-59/64"	***F48G-3938***
4"	4-40/64"	4-43/64"	***F64G-4688***
	4-44/64"	4-47/64"	***F64G-4750***
	4-48/64"	4-51/64"	***F64G-4813***
	4-52/64"	4-55/64"	***F64G-4875***
	4-56/64"	4-59/64"	***F64G-4938***

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Crimp Sanitary Recommendation Guide

1" and 1½" Crimped Sanitary Fittings

Hose ID	Stem Part #	Ferrule Part #	Hose OD		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
1"	CSSR100 CBSR100	F16G-1453	1-26/64 1-27/64 1-28/64	1.406 1.422 1.438	1.565 1.577 1.589	23% 23% 23%
		F16G-1500	1-29/64 1-30/64 1-31/64	1.453 1.469 1.484	1.601 1.613 1.625	23% 23% 23%
		F16G-1547	1-32/64 1-33/64 1-34/64	1.500 1.516 1.531	1.637 1.649 1.661	23% 23% 23%
		F16G-1594	1-35/64 1-36/64 1-37/64	1.547 1.563 1.578	1.673 1.685 1.697	23% 23% 23%
		F16G-1641	1-38/64 1-39/64 1-40/64	1.594 1.609 1.625	1.709 1.721 1.733	23% 23% 23%
1½"	CSSR150 CBSR150 CILR150 CTER150 HA0240 HA0235	F24G-1969	1-58/64 1-59/64 1-60/64 1-61/64	1.906 1.922 1.938 1.953	2.063 2.075 2.087 2.099	23% 23% 23% 23%
		F24G-2031	1-62/64 1-63/64 2 2-1/64	1.969 1.984 2.000 2.016	2.111 2.123 2.135 2.147	23% 23% 23% 23%
		F24G-2094	2-2/64 2-3/64 2-4/64 2-5/64	2.031 2.047 2.063 2.078	2.159 2.171 2.183 2.195	23% 23% 23% 23%
		F24G-2156	2-6/64 2-7/64 2-8/64 2-9/64	2.094 2.109 2.125 2.141	2.207 2.219 2.231 2.243	23% 23% 23% 23%
		F24G-2250	2 (12/64) 2 (13/64) 2 (14/64) 2 (15/64)	2.187 2.203 2.218 2.234	2.279 2.291 2.303 2.315	23% 23% 23% 23%
		F24G-3125	2 (16/64) 2 (17/64) 2 (18/64) 2 (19/64)	2.250 2.265 2.281 2.296	2.328 2.339 2.351 2.363	23% 23% 23% 23%

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Crimp Sanitary Recommendation Guide

2" Crimped Sanitary Fittings

Hose ID	Stem Part #	Ferrule Part #	Hose OD Fractional	Hose OD Decimal	Crimp Diameter (±0.005)	% Reduction
2"	CSSR200 CBSR200 CILR200 CTER200 HA0236 HA0341	F24G-2250	2-12/64	2.187	2.279	23%
			2-13/64	2.203	2.291	23%
			2-14/64	2.218	2.303	23%
			2-15/64	2.234	2.315	23%
		F24G-3125	2-16/64	2.250	2.328	23%
			2-17/64	2.265	2.339	23%
			2-18/64	2.281	2.351	23%
			2-19/64	2.296	2.363	23%
		F32G-2531	2-30/64	2.469	2.611	23%
			2-31/64	2.484	2.623	23%
			2-32/64	2.500	2.635	23%
			2-33/64	2.516	2.647	23%
		F32G-2594	2-34/64	2.531	2.659	23%
			2-35/64	2.547	2.671	23%
			2-36/64	2.563	2.683	23%
			2-37/64	2.578	2.695	23%
		F32G-2656	2-38/64	2.594	2.707	23%
			2-39/64	2.609	2.719	23%
			2-40/64	2.625	2.731	23%
			2-41/64	2.641	2.743	23%
		F32G-2719	2-42/64	2.656	2.755	23%
			2-43/64	2.672	2.767	23%
			2-44/64	2.688	2.779	23%
			2-45/64	2.703	2.791	23%
		F32G-2875	2-52/64	2.812	2.876	23%
			2-53/64	2.828	2.888	23%
			2-54/64	2.843	2.899	23%
			2-55/64	2.859	2.911	23%
		F32G-2938	2-56/64	2.875	2.924	23%
			2-57/64	2.890	2.935	23%
			2-58/64	2.906	2.948	23%
			2-59/64	2.921	2.959	23%

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Crimp Sanitary Recommendation Guide

3" and 4" Crimped Sanitary Fittings

Hose ID	Stem Part #	Ferrule Part #	Hose OD		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
3"	CSSR300 CBSR300 CILR300 CTER300 HA0238 HA0243	F48G-3625	3-36/64 3-37/64 3-38/64 3-39/64	3.563 3.578 3.594 3.609	3.683 3.695 3.707 3.719	23% 23% 23% 23%
		F48G-3688	3-40/64 3-41/64 3-42/64 3-43/64	3.625 3.641 3.656 3.672	3.731 3.743 3.755 3.767	23% 23% 23% 23%
		F48G-3750	3-44/64 3-45/64 3-46/64 3-47/64	3.688 3.703 3.719 3.734	3.779 3.791 3.803 3.815	23% 23% 23% 23%
		F48G-3813	3-48/64 3-49/64 3-50/64 3-51/64	3.750 3.766 3.781 3.797	3.828 3.840 3.852 3.864	23% 23% 23% 23%
		F48G-3875	3-52/64 3-53/64 3-54/64 3-55/64	3.813 3.828 3.844 3.859	3.876 3.888 3.900 3.912	23% 23% 23% 23%
		F48G-3938	3-56/64 3-57/64 3-58/64 3-59/64	3.875 3.891 3.906 3.922	3.924 3.936 3.948 3.960	23% 23% 23% 23%
		F48G-4106	4-3/64 4-4/64 4-5/64 4-6/64	4.046 4.062 4.078 4.093	4.056 4.069 4.080 4.092	23% 23% 23% 23%
4"	CSSR400 CBSR400 CILR400 CTER400	F64G-4688	4-40/64 4-41/64 4-42/64 4-43/64	4.625 4.641 4.656 4.672	4.857 4.869 4.881 4.893	23% 23% 23% 23%
		F64G-4750	4-44/64 4-45/64 4-46/64 4-47/64	4.688 4.703 4.719 4.734	4.905 4.917 4.929 4.941	23% 23% 23% 23%
		F64G-4813	4-48/64 4-49/64 4-50/64 4-51/64	4.750 4.766 4.781 4.797	4.954 4.966 4.978 4.990	23% 23% 23% 23%
		F64G-4875	4-52/64 4-53/64 4-54/64 4-55/64	4.813 4.828 4.844 4.859	5.002 5.014 5.026 5.038	23% 23% 23% 23%
		F64G-4938	4-56/64 4-57/64 4-58/64 4-59/64	4.875 4.891 4.906 4.922	5.050 5.062 5.074 5.086	23% 23% 23% 23%
		F64G-5141	5-5/64 5-6/64 5-7/64 5-8/64	5.078 5.093 5.109 5.125	5.205 5.218 5.230 5.242	23% 23% 23% 23%

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Air Fittings

Air Fitting Selection

Product Specifications

Size range:
- Fittings: ⅛" - 1/2"
- Tubing: ¼" OD - 1/2" OD

Materials:
- Fittings: 303 stainless steel, nylon/nickel-plated brass, nickel-plated brass,
- Tubing: polyethylene

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Wilkerson FRLs 166-170

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Tubing

Polyethylene Tubing

Features:
- designed for FDA applications
- temperature range: **-50°F** to **140°F** (working pressure given at 70°F)
- designed for use with the push-in fittings
- flexible, lightweight, low-density polyethylene (LDPE) tubing
- for use with plastic or metal inserts with outer sleeve; ferrule or clamps
- formulated to resist stress cracking

Size OD	Size ID	Wall Thickness	Working Pressure @ 75°F	Length	Tubing Color	Part Number
¼"	.125"	.062	**150**	*100' roll*	natural	***0804***
¼"	.170"	.040	**150**	*100' roll*	natural	***0817***
3/8"	.250"	.062	**150**	*100' roll*	natural	***1208***
1/2"	.375"	.062	**125**	*100' roll*	natural	***1612***

Size OD	Size ID	Wall Thickness	Working Pressure @ 75°F	Length	Tubing Color	Part Number
¼"	.170"	.040	**150**	*100' roll*	blue	***0817BL100***
¼"	.170"	.040	**150**	*500' roll*	blue	***0817BL***
¼"	.170"	.040	**150**	*500' roll*	black	***0817BR***
¼"	.170"	.040	**150**	*500' roll*	natural	***0817CR***
3/8"	.250"	.062	**150**	*500' roll*	black	***1208BR***
3/8"	.250"	.062	**150**	*500' roll*	natural	***1208CR***

Nylon 12 Tubing

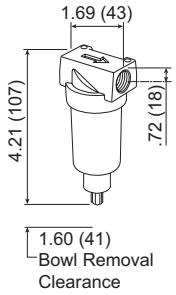
Features:
- naturally transparent
- temperature range: **-40°F** to **180°F** (working pressure given at 75°F)
- designed for use with the push-in fittings
- recommended for applications requiring low density, lightweight toughness, flexibility and chemical resistance
- 100' lengths are packaged in plastic bags.

Size OD	Size ID	Wall Thickness	Working Pressure @ 75°F	Length	Part #
⅛"	.093"	.016	**225**	*100' roll*	***04093***
5/32"	.106"	.025	**275**	*100' roll*	***05106***
3/16"	.138"	.025	**225**	*100' roll*	***06138***
¼"	.170"	.040	**265**	*100' roll*	***08170***
¼"	.180"	.035	**250**	*100' roll*	***08180***
3/8"	.275"	.050	**220**	*100' roll*	***12275***
1/2"	.375"	.062	**200**	*100' roll*	***16375***

S

Wilkerson Miniature Filters

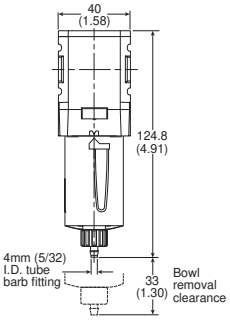
transparent bowl



Features:
- excellent water removal efficiency
- 5 micron element
- .5 oz. bowl
- maximum operating conditions:
  transparent bowl: **150 PSIG** (10 bar) and **32°F** to **125°F** (0°C to 52°C)
  metal bowl: **250 PSIG** (17 bar) and **32°F** to **175°F** (0°C to 80°C)

Size	SCFM	With Transparent Bowl		With Metal Bowl	
		Automatic Drain Part #	Manual Drain Part #	Automatic Drain Part #	Manual Drain Part #
⅛"	22	***F03-01A***	***F03-01M***	***F03-01AMB***	***F03-01MMB***
¼"	24	***F03-02A***	***F03-02M***	***F03-02AMB***	***F03-02MMB***

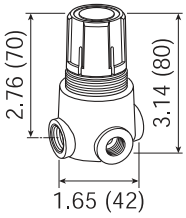
transparent bowl with guard



Features:
- 5 micron element
- .4 oz. bowl
- maximum operating conditions:
  transparent bowl: **150 PSIG** (10 bar) and **32°F** to **125°F** (0°C to 52°C)
  metal bowl: **250 PSIG** (17 bar) and **32°F** to **150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl and Guard		With Metal Bowl	
		Automatic Drain Part #	Manual Drain Part #	Automatic Drain Part #	Manual Drain Part #
¼"	50	***F08-02A***	***F08-02M***	***F08-02AMB***	***F08-02MMB***

Wilkerson Miniature Regulators



Features:
- 2-125 PSI adjusting range
- balanced valve design
- self-relieving standard
- non-rising push/pull locking adjustment knob
- two ⅛" NPT gauge ports standard on models without gauge, one ⅛" NPT gauge port standard on models with gauge - can be used for additional outlet ports.
- models supplied without gauge use a GC620 gauge.
- panel mount nuts sold separately
- maximum operating conditions:
  300 PSIG (20.17 bar) and **32°F** to **125°F** (0°C to 52°C)

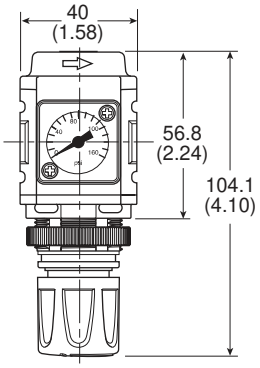
Size	SCFM	With Gauge Part #	Without Gauge Part #
⅛"	13	***R03-01RG***	***R03-01R***
¼"	15	***R03-02RG***	***R03-02R***

FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Miniature Regulators

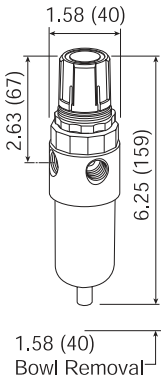
Features:
- 0-125 PSI adjusting range
- balanced valve design
- self-relieving standard
- non-rising push/pull locking adjustment knob
- two ⅛" NPT gauge ports standard on models without gauge, one ⅛" NPT gauge port standard on models with gauge - can be used for additional outlet ports.
- models with gauge are supplied with a 0-160 flush mount style gauge
- models supplied without gauge use a GC620 gauge.
- panel mount nuts sold separately
- maximum operating conditions:
  300 PSIG (20.7 bar) and **32°F** to **150°F** (0°C to 65.5°C)



Size	SCFM	With Gauge Part #	Without Gauge Part #
¼"	44	***R08-02RG***	***R08-02R***

Wilkerson Miniature Filter / Regulators

Features:
- 2-125 PSI adjusting range
- 5 micron element
- .5 oz. bowl
- self-relieving
- supplied with a GC620 gauge
- maximum operating conditions:
  transparent bowl: **125 PSIG** (8.6 bar) and **40°F** to **125°F** (4.4°C to 52°C)
  metal bowl: **300 PSIG** (20.7 bar) and **40°F** to **125°F** (4.4°C to 52°C)



transparent bowl

Size	SCFM	With Transparent Bowl and Guard		With Metal Bowl	
		Automatic Drain Part #	Manual Drain Part #	Automatic Drain Part #	Manual Drain Part #
⅛"	13	***BB3-01AG***	***BB3-01MG***	***BB3-01AGMB***	***BB3-01MGMB***
¼"	16	***BB3-02AG***	***BB3-02MG***	***BB3-02AGMB***	***BB3-02MGMB***

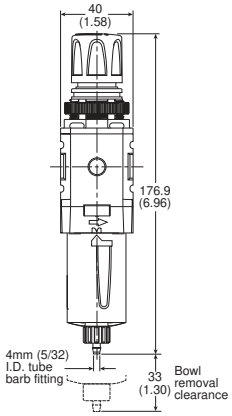
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

S

Wilkerson Miniature Filter / Regulators

transparent bowl with guard

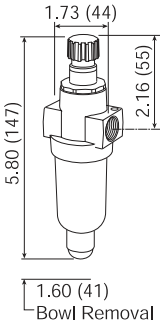


Features:
- 0-125 PSI adjusting range
- 5 micron element
- .4 oz. bowl
- self-relieving
- supplied with a 0-160 PSI flush mount style gauge
- maximum operating conditions:
  - transparent bowl: **150 PSIG** (10.3 bar) and **32°F** to **125°F** (0°C to 52°C)
  - metal bowl: **250 PSIG** (17.2 bar) and **32°F** to **150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl and Guard		With Metal Bowl	
		Automatic Drain Part #	Manual Drain Part #	Automatic Drain Part #	Manual Drain Part #
¼"	42.1	***B08-02AG***	***B08-02MG***	***B08-02AGMB***	***B08-02MGMB***

Wilkerson Miniature Lubricators

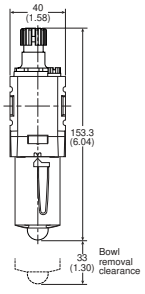
transparent bowl



Features:
- 1 oz. bowl
- adjustable oil feed
- full view sight dome
- *Do not fill under pressure. Air supply must be turned off and pressure bled from unit prior to adding oil.*
- maximum operating conditions:
  transparent bowl: **150 PSIG** (10.3 bar) and **32°F** to **125°F** (0°C to 52°C)
  metal bowl: **250 PSIG** (17.2 bar) and **32°F** to **175°F** (0°C to 80°C)

Size	SCFM	With Transparent Bowl Part #	With Metal Bowl Part #
⅛"	20	***L03-01A***	***L03-01AMB***
¼"	20	***L03-02A***	***L03-02AMB***

transparent bowl with guard



Features:
- .6 oz. bowl
- adjustable oil feed
- full view sight dome
- fill under pressure design
- maximum operating conditions:
  - transparent bowl: **150 PSIG** (10.3 bar) and **32°F** to **125°F** (0°C to 52°C)
  - metal bowl: **250 PSIG** (17.2 bar) and **32°F** to **150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl Part #	With Metal Bowl Part #
¼"	57.5	***L08-02A***	***L08-02AMB***

FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

S

Wilkerson Miniature Combination Units

(Filter, Regulator, Lubricator)

Features:

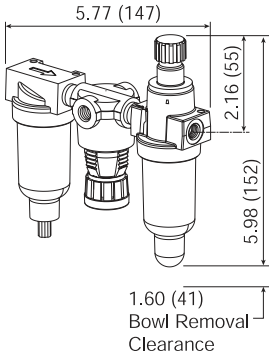
- maximum operating conditions:
  transparent bowl: **150 PSIG** (10.3 bar) and **32°F** to **125°F** (0°C to 52°C)
  metal bowl: **250 PSIG** (17.2 bar) and **32°F** to **175°F** (0°C to 80°C)

Filter series F03:
- 5 micron element
- .5 oz. bowl

Regulator series R03:
- 2-125 PSI adjusting range
- balanced valve design
- self-relieving
- supplied with a GC620 gauge
- Regulator can be mounted with knob in up or down position.

Lubricator series L03:
- 1 oz. bowl
- adjustable oil feed
- full view sight dome

Included components:
- (2) adapters



transparent bowl

Size	SCFM	With Transparent Bowl and Guard		With Metal Bowl	
		Automatic Drain Part #	Manual Drain Part #	Automatic Drain Part #	Manual Drain Part #
⅛"	20	***C03-01A***	***C03-01M***	***C03-01AMB***	***C03-01MMB***
¼"	20	***C03-02A***	***C03-02M***	***C03-02AMB***	***C03-02MMB***

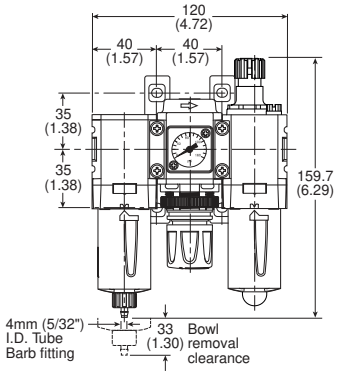
Features:

- maximum operating conditions:
  - transparent bowl: **150 PSIG** (10.3 bar) and **32°F** to **125°F** (0°C to 52°C)
  - metal bowl: **250 PSIG** (17.2 bar) and **32°F** to **150°F** (0°C to 65.5°C)
- Included components: (2) mounting brackets with joiner set

Filter series F08:
- 5 micron element
- .4 oz. bowl

Regulator series R08:
- 0-125 PSI adjusting range
- balanced valve design
- self-relieving
- supplied with a 0-160 PSI flush mount style gauge

Lubricator series L08:
- .6 oz. bowl
- adjustable oil feed
- full view sight dome



transparent bowl with guard

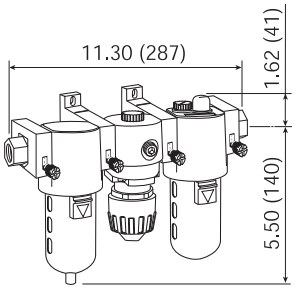
Size	SCFM	With Transparent Bowl and Guard		With Metal Bowl	
		Automatic Drain Part #	Manual Drain Part #	Automatic Drain Part #	Manual Drain Part #
¼"	44	***C08-02A***	***C08-02M***	***C08-02AMB***	***C08-02MMB***

FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Compact Combination Units

with metal bowl



Features:

- maximum operating conditions:
  transparent bowl: **150 PSIG** (10.3 bar) and **32°F** to **125°F** (0°C to 52°C)
  metal bowl: **200 PSIG** (13.8 bar) and **32°F** to **175°F** (0°C to 80°C)

Filter series F16:
- 5 micron element
- 5 oz. bowl

Regulator series R16:
- 0-125 PSI adjusting range
- self-relieving
- supplied with a GC230 gauge

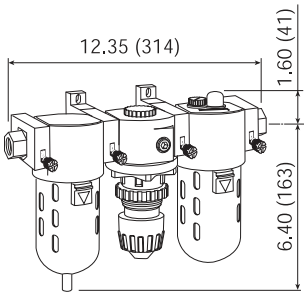
Lubricator series L16:
- 5 oz. bowl
- adjustable oil feed
- full view sight dome

Included components:
- (2) modular sleeves
- (2) mounting brackets (sleeve and bracket)
- (2) end blocks

Size	SCFM	With Transparent Bowl and Guard		Metal Bowl with Sight Glass	
		Automatic Drain Part #	Manual Drain Part #	Automatic Drain Part #	Manual Drain Part #
¼"	36.1	***C16-02A***	***C16-02M***	***C16-02AMB***	***C16-02MMB***
3/8"	58.5	***C16-03A***	***C16-03M***	***C16-03AMB***	***C16-03MMB***
1/2"	64.0	***C16-04A***	***C16-04M***	***C16-04AMB***	***C16-04MMB***

Wilkerson Standard Combination Units

with metal bowl



Features:

- maximum operating conditions:
  transparent bowl: **150 PSIG** (10.3 bar) and **32°F** to **125°F** (0°C to 52°C)
  metal bowl: **200 PSIG** (13.8 bar) and **32°F** to **175°F** (0°C to 80°C)

Filter series F26:
- 5 micron element
- 10 oz. bowl

Regulator series R26:
- 0-125 PSI adjusting range
- self-relieving
- supplied with a GC230 gauge

Lubricator series L26:
- 10 oz. bowl
- adjustable oil feed
- full view sight dome

Included components:
- (2) modular sleeves
- (2) mounting brackets (sleeve and bracket)
- (2) end blocks

Size	SCFM	With Transparent Bowl and Guard		**With Metal Bowl**	
		Automatic Drain Part #	Manual Drain Part #	Automatic Drain Part #	Manual Drain Part #
¼"	35	***C26-02A***	***C26-02M***	***C26-02AMB***	***C26-02MMB***
3/8"	60	***C26-03A***	***C26-03M***	***C26-03AMB***	***C26-03MMB***
1/2"	128	***C26-04A***	***C26-04M***	***C26-04AMB***	***C26-04MMB***

S

FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Dixon Sanitary Ball Valves

Product Specifications

Size range:
- ½" - 4" OD tube
- ¼" - 4" nominal pipe

Materials:
- CF8M stainless steel
- brass

Ball Valve Selection

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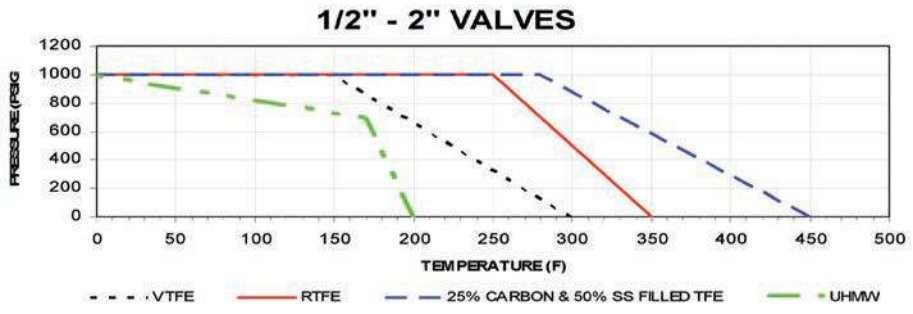
T

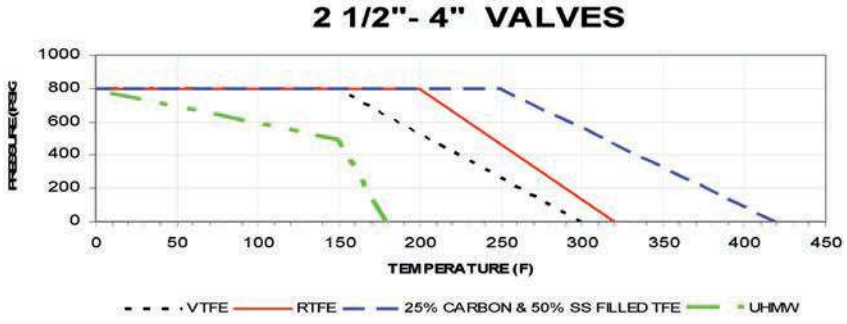
Technical Information

Seal Materials

Code	Designation	Material	Applications
V	Virgin PTFE	Virgin polytetrafluoroethylene	100% PTFE- Our standard seat material. Ideal for most sanitary services. Specified for applications requiring a low co-efficient of friction. **Food Grade Material**
G	RTFE	15% glass reinforced tetrafluoroethylene	15% glass filled + 85% PTFE - Slightly higher temperature and pressure rating than PTFE. Specified for applications requiring higher cycle life than PTFE. **Food Grade Material**
C	25% Carbon PTFE	25% carbon reinforced tetrafluoroethylene	25% carbon +75% PTFE - Specified for higher temperature pressure applications. Ideal for steam and thermal fluid applications. Higher cycle life than RTFE.
S	Stainless Steel PTFE	50% stainless steel filled tetrafluoroethylene	50% stainless steel + 50% PTFE - Specified for higher temperature pressure applications in a sanitary process. **Food Grade Material**
U	UHMW	Ultra-high molecular weight polyethylene	Specified for its low modulus of abrasion and minimal property degradation when exposed to moderate levels of radiation. Ideal for applications where fluorocarbons are not acceptable. **Food Grade Material**

Pressure Temperature Charts



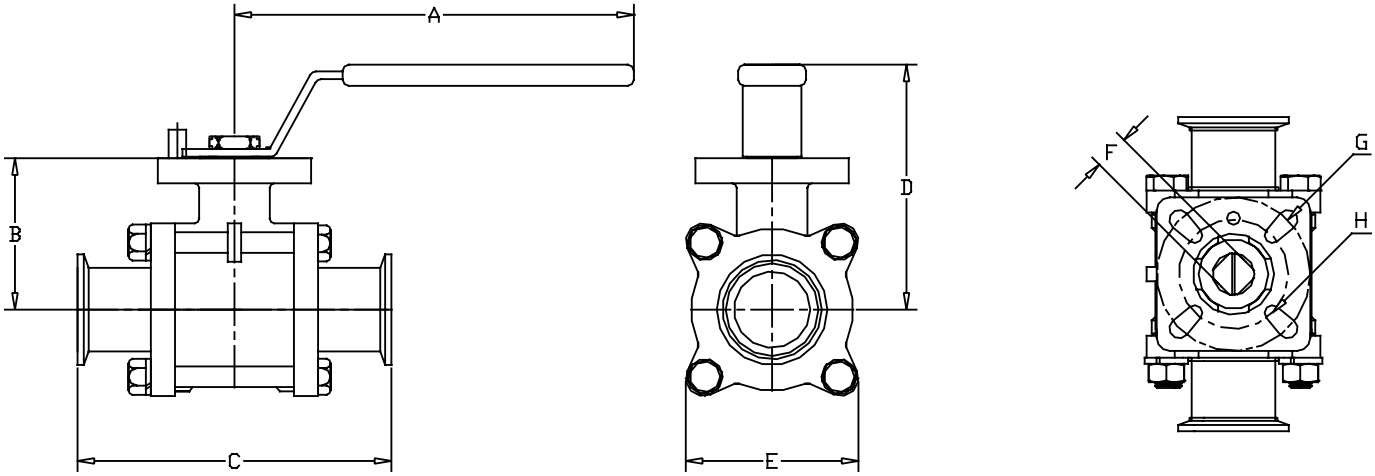


T

2-Way Encapsulated Sanitary 3 Piece Stainless Steel Ball Valves

Features:

- ½" - 2" rated at **1,000 PSI** WOG; 2½" - 4" rated at **800 PSI** WOG
- balanced encapsulated construction minimizes cold flow
- live-loaded stem packing
- precision stainless steel balls reduce torque and friction losses while extending seat life
- integral ISO 5211 mounting pad
- ID polish is R_a 32 minimum
- lockable handle can prevent accidental actuation
- standard internal entry blow out proof stem design
- full port design matches ball and seat ports to tube ID for lower pressure drop and less turbulent flow
- compact design for areas with tight space restrictions
- fully encapsulated construction produces bubble tight seal
- identification tagging available



Size	A	B	C	D	E	F (mm)	G	H
½"	4.9	1.5	4.3	3.0	1.9	9	F04	F03
¾"	4.9	1.8	4.7	3.3	2.2	9	F04	F03
1"	5.6	2.1	4.9	3.6	2.4	11	F05	F04
1½"	9.5	2.7	5.6	4.4	3.1	14	F07	F05
2"	9.5	3.1	6.4	4.8	3.7	14	F07	F05
2½"	18.0	3.8	7.8	5.2	4.8	17	F10	F07
3"	18.0	4.2	9	5.7	5.4	17	F10	F07
4"	18.0	5.3	9.5	6.8	8.8	22	F12	F10

Dimensions are approximate. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

T

Handle Kits

Size	Part Number
½" - ¾"	***BV-23-HA050-075***
1"	***BV-23-HA100***
1½" - 2"	***BV-23-HA150-200***
2½"	***BV-23-HA250***
3" - 4"	***BV-23-HA300-400***

kit contains:
(1) lock washer
(1) handle
(1) nut

- private label handle covers available, see page 187

Repair Kits

kit contains:
(1) O-ring
(1) thrust washer
(3) stem packings
(2) encapsulated seats
(2) body seals

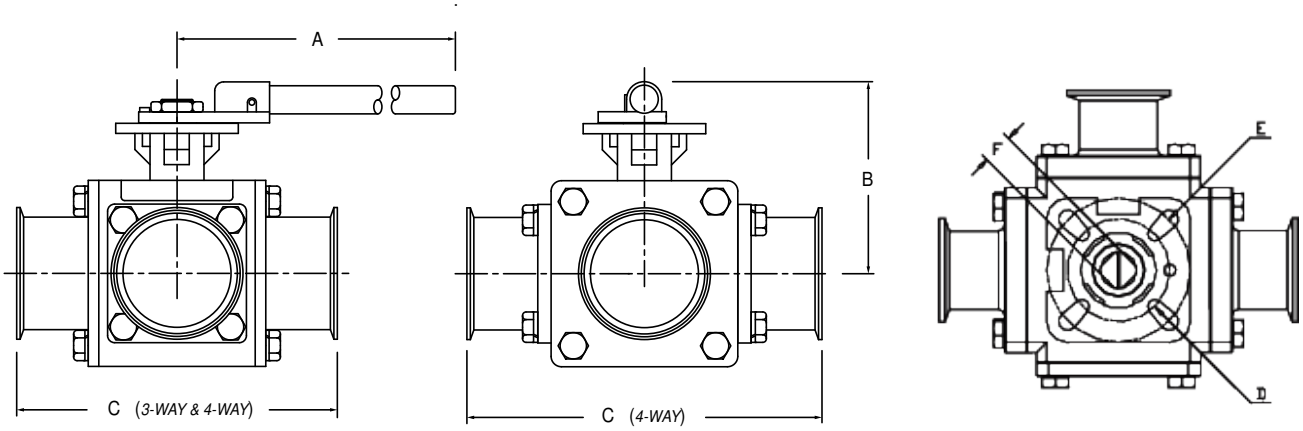
- see page 174 for part numbers

2-Way Encapsulated Sanitary 3 Piece Stainless Steel Ball Valves

Size	Ball Valve Part #	Repair Kit Part #	Break Torque (in-lb)	Code ID	Seat material
½"	***BV2CV-050CC-A***	***BV-2C-VK050***	31	V	Virgin PTFE
¾"	***BV2CV-075CC-A***	***BV-2C-VK075***	47		
1"	***BV2CV-100CC-A***	***BV-2C-VK100***	105		
1½"	***BV2CV-150CC-A***	***BV-2C-VK150***	238		
2"	***BV2CV-200CC-A***	***BV-2C-VK200***	256		
2½"	***BV2CV-250CC-A***	***BV-2C-VK250***	900		
3"	***BV2CV-300CC-A***	***BV-2C-VK300***	1650		
4"	***BV2CV-400CC-A***	***BV-2C-VK400***	2027		
½"	***BV2CG-050CC-A***	***BV-2C-GK050***	34	G	15% glass reinforced RTFE
¾"	***BV2CG-075CC-A***	***BV-2C-GK075***	51		
1"	***BV2CG-100CC-A***	***BV-2C-GK100***	116		
1½"	***BV2CG-150CC-A***	***BV-2C-GK150***	261		
2"	***BV2CG-200CC-A***	***BV-2C-GK200***	281		
2½"	***BV2CG-250CC-A***	***BV-2C-GK250***	990		
3"	***BV2CG-300CC-A***	***BV-2C-GK300***	1815		
4"	***BV2CG-400CC-A***	***BV-2C-GK400***	2229		
½"	***BV2CC-050CC-A***	***BV-2C-CK050***	37	C	25% carbon reinforced PTFE
¾"	***BV2CC-075CC-A***	***BV-2C-CK075***	57		
1"	***BV2CC-100CC-A***	***BV-2C-CK100***	127		
1½"	***BV2CC-150CC-A***	***BV-2C-CK150***	287		
2"	***BV2CC-200CC-A***	***BV-2C-CK200***	309		
2½"	***BV2CC-250CC-A***	***BV-2C-CK250***	1089		
3"	***BV2CC-300CC-A***	***BV-2C-CK300***	1997		
4"	***BV2CC-400CC-A***	***BV-2C-CK400***	2452		
½"	***BV2CS-050CC-A***	***BV-2C-SK050***	41	S	50% stainless steel reinforced PTFE
¾"	***BV2CS-075CC-A***	***BV-2C-SK075***	62		
1"	***BV2CS-100CC-A***	***BV-2C-SK100***	140		
1½"	***BV2CS-150CC-A***	***BV-2C-SK150***	316		
2"	***BV2CS-200CC-A***	***BV-2C-SK200***	340		
2½"	***BV2CS-250CC-A***	***BV-2C-SK250***	1198		
3"	***BV2CS-300CC-A***	***BV-2C-SK300***	2196		
4"	***BV2CS-400CC-A***	***BV-2C-SK400***	2698		
½"	***BV2CU-050CC-A***	***BV-2C-UK050***	31	U	UHMW
¾"	***BV2CU-075CC-A***	***BV-2C-UK075***	47		
1"	***BV2CU-100CC-A***	***BV-2C-UK100***	105		
1½"	***BV2CU-150CC-A***	***BV-2C-UK150***	238		
2"	***BV2CU-200CC-A***	***BV-2C-UK200***	256		
2½"	***BV2CU-250CC-A***	***BV-2C-UK250***	900		
3"	***BV2CU-300CC-A***	***BV-2C-UK300***	1650		
4"	***BV2CU-400CC-A***	***BV-2C-UK400***	2027		

Multi-port Sanitary Stainless Steel Ball Valves

Features:
- full port design on ½" thru 3"
- reduced port design on 4"
- blow-out proof stem
- live-loaded stem packing
- CF8M stainless body, ends and ball
- ISO 5211 mounting pad
- lock-out, tag out
- rated to ½" - 2" **1,000 PSI** WOG
  2½" - 4" **800 PSI** WOG



Size	A	B	C	D	E	F	Weight (lbs.)
½"	4.9	3.2	4.6	F03	F04	9	3.6
¾"	4.9	4.3	5.1	F03	F04	9	4.3
1"	5.6	3.8	6.0	F04	F05	11	6.8
1½"	9.5	4.5	6.9	F05	F07	14	12.6
2"	9.5	5.0	7.5	F05	F07	14	21.6
2½"	18.0	5.3	8.4	F07	F10	17	33.7
3"	18.0	6.4	9.6	F10	F12	22	56.4
4"	18.0	6.8	11.5	F10	F12	22	85.4

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Handle Kits

Size	Part Number
½" - ¾"	***BV-23-HA050-075***
1"	***BV-23-HA100***
1½" - 2"	***BV-23-HA150-200***
2½"	***BV-23-HA250***
3" - 4"	***BV-23-HA300-400***

Kit contains:
(1) lock washer
(1) handle
(1) nut

- private label handle covers available, see page 187

Repair Kits

Kit contains:
(2) encapsulated seat small
(2) encapsulated seat large
(2) body seals
(1) thrust washer
(1) O-ring
(3) stem packings
(1) plug (3-way only)

- see page 176 for part numbers

T

3-way Multi-port Sanitary Stainless Steel Ball Valves

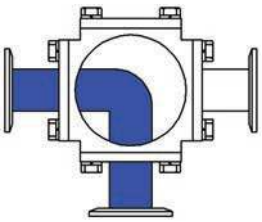
Size	"L" port Ball Valve Part #	"T" port Ball Valve Part #	Repair Kit Part #	"L" Port Break Torque (in-lb)	"T" Port Break Torque (in-lb)	Code ID	Seat material
½"	***BV3SVLF050C-A***	***BV3SVTF050C-A***	***BV-3SVFRK050***	65	44	V	Virgin PTFE
¾"	***BV3SVLF075C-A***	***BV3SVTF075C-A***	***BV-3SVFRK075***	76	76		
1"	***BV3SVLF100C-A***	***BV3SVTF100C-A***	***BV-3SVFRK100***	171	171		
1½"	***BV3SVLF150C-A***	***BV3SVTF150C-A***	***BV-3SVFRK150***	356	297		
2"	***BV3SVLF200C-A***	***BV3SVTF200C-A***	***BV-3SVFRK200***	553	553		
2½"	***BV3SVLF250C-A***	***BV3SVTF250C-A***	***BV-3SVFRK250***	1114	1114		
3"	***BV3SVLF300C-A***	***BV3SVTF300C-A***	***BV-3SVFRK300***	1875	1400		
4"	***BV3SVLR400C-A***	***BV3SVTR400C-A***	***BV-3SVRRK400***	2241	2050		
½"	***BV3SGLF050C-A***	***BV3SGTF050C-A***	***BV-3SGRK050***	71	48	G	15% glass reinforced RTFE
¾"	***BV3SGLF075C-A***	***BV3SGTF075C-A***	***BV-3SGRK075***	83	84		
1"	***BV3SGLF100C-A***	***BV3SGTF100C-A***	***BV-3SGRK100***	188	188		
1½"	***BV3SGLF150C-A***	***BV3SGTF150C-A***	***BV-3SGRK150***	392	327		
2"	***BV3SGLF200C-A***	***BV3SGTF200C-A***	***BV-3SGRK200***	608	608		
2½"	***BV3SGLF250C-A***	***BV3SGTF250C-A***	***BV-3SGRK250***	1226	1225		
3"	***BV3SGLF300C-A***	***BV3SGTF300C-A***	***BV-3SGRK300***	2063	1540		
4"	***BV3SGLR400C-A***	***BV3SGTR400C-A***	***BV-3SGRK400***	2465	2255		
½"	***BV3SCLF050C-A***	***BV3SCTF050C-A***	***BV-3SCRK050***	78	53	C	25% carbon reinforced PTFE
¾"	***BV3SCLF075C-A***	***BV3SCTF075C-A***	***BV-3SCRK075***	91	92		
1"	***BV3SCLF100C-A***	***BV3SCTF100C-A***	***BV-3SCRK100***	207	207		
1½"	***BV3SCLF150C-A***	***BV3SCTF150C-A***	***BV-3SCRK150***	431	359		
2"	***BV3SCLF200C-A***	***BV3SCTF200C-A***	***BV-3SCRK200***	669	669		
2½"	***BV3SCLF250C-A***	***BV3SCTF250C-A***	***BV-3SCRK250***	1348	1348		
3"	***BV3SCLF300C-A***	***BV3SCTF300C-A***	***BV-3SCRK300***	2269	1694		
4"	***BV3SCLR400C-A***	***BV3SCTR400C-A***	***BV-3SCRK400***	2712	2481		
½"	***BV3SSLF050C-A***	***BV3SSTF050C-A***	***BV-3SSRK050***	86	59	S	50% stainless steel reinforced PTFE
¾"	***BV3SSLF075C-A***	***BV3SSTF075C-A***	***BV-3SSRK075***	101	101		
1"	***BV3SSLF100C-A***	***BV3SSTF100C-A***	***BV-3SSRK100***	228	228		
1½"	***BV3SSLF150C-A***	***BV3SSTF150C-A***	***BV-3SSRK150***	474	395		
2"	***BV3SSLF200C-A***	***BV3SSTF200C-A***	***BV-3SSRK200***	736	736		
2½"	***BV3SSLF250C-A***	***BV3SSTF250C-A***	***BV-3SSRK250***	1483	1483		
3"	***BV3SSLF300C-A***	***BV3SSTF300C-A***	***BV-3SSRK300***	2496	1863		
4"	***BV3SSLR400C-A***	***BV3SSTR400C-A***	***BV-3SSRK400***	2983	2729		
½"	***BV3SULF050C-A***	***BV3SUTF050C-A***	***BV-3SURK050***	65	44	U	UHMW
¾"	***BV3SULF075C-A***	***BV3SUTF075C-A***	***BV-3SURK075***	76	76		
1"	***BV3SULF100C-A***	***BV3SUTF100C-A***	***BV-3SURK100***	171	171		
1½"	***BV3SULF150C-A***	***BV3SUTF150C-A***	***BV-3SURK150***	356	297		
2"	***BV3SULF200C-A***	***BV3SUTF200C-A***	***BV-3SURK200***	553	553		
2½"	***BV3SULF250C-A***	***BV3SUTF250C-A***	***BV-3SURK250***	1114	1114		
3"	***BV3SULF300C-A***	***BV3SUTF300C-A***	***BV-3SURK300***	1875	1400		
4"	***BV3SULR400C-A***	***BV3SUTR400C-A***	***BV-3SURK400***	2241	2050		

- 4-way available upon request

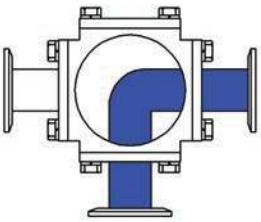
Multi-port Sanitary Stainless Steel Ball Valves

Flow Options

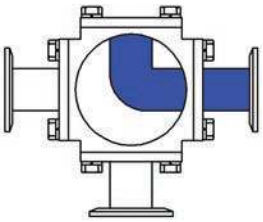
3-way 'L'-port
position A



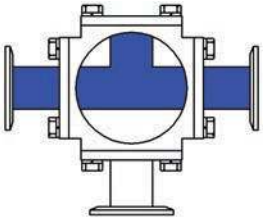
3-way 'L'-port
position B



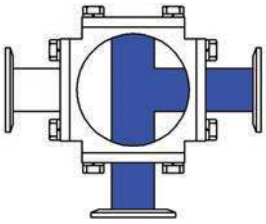
3-way 'L'-port
position C



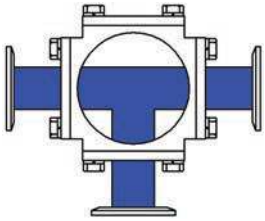
3-way 'T'-port
position A



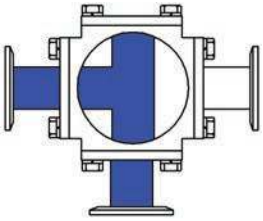
3-way 'T'-port
position B



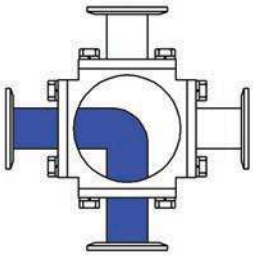
3-way 'T'-port
position C



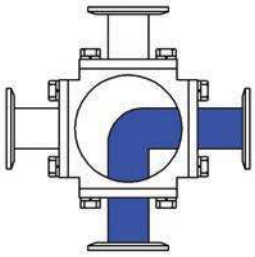
3-way 'T'-port
position D



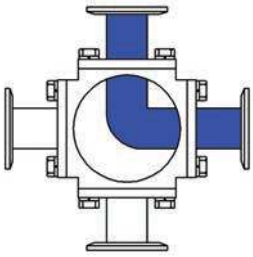
4-way 'L'-port
position A



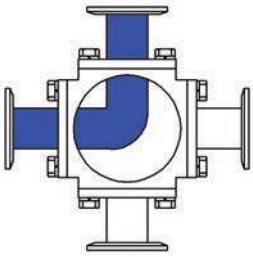
4-way 'L'-port
position B



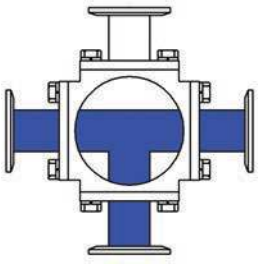
4-way 'L'-port
position C



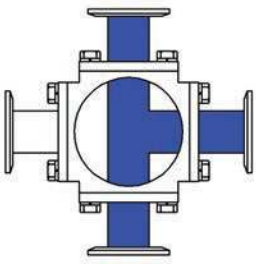
4-way 'L'-port
position D



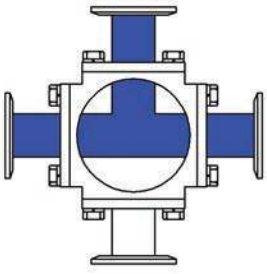
4-way 'T'-port
position A



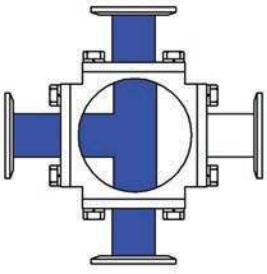
4-way 'T'-port
position B



4-way 'T'-port
position C



4-way 'T'-port
position D



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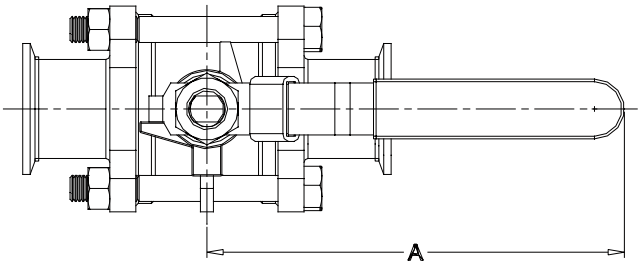
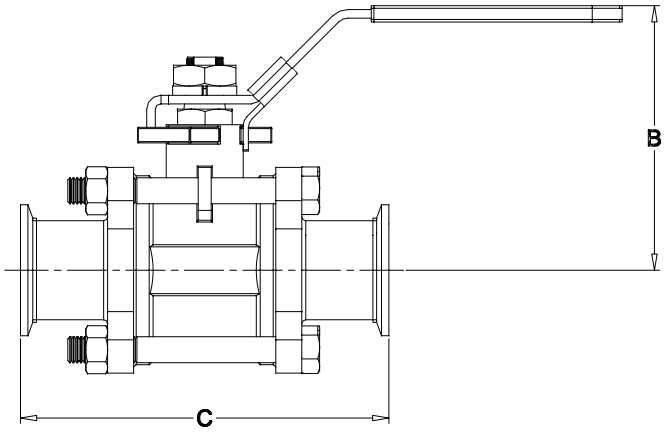
Non-Encapsulated 2-way 3 Piece Stainless Steel Ball Valves

Features:

- blow-out proof stem
- live-loaded stem packing
- 15% glass reinforced PTFE seats
- CF8M stainless body, ends and ball
- ID polish is R_a 32
- lockable handle
- rated to ½" - 2" **1,000 PSI** WOG
  2½" - 4" **800 PSI** WOG
- maximum temperature: **300°F**





Size	A	B	C	Break Torque (in-lbs.)	Weight (lbs.)	*316 Stainless Steel* Part Number
½"	4.1	2.3	4.6	55	1.4	***BV2GG-050CC-A***
¾"	4.1	2.5	4.7	71	1.8	***BV2GG-075CC-A***
1"	5.0	2.8	4.9	101	2.6	***BV2GG-100CC-A***
1½"	6.1	3.5	5.6	221	4.6	***BV2GG-150CC-A***
2"	7.6	3.9	6.4	345	8.5	***BV2GG-200CC-A***
2½"	7.6	4.4	7.8	883	17.8	***BV2GG-250CC-A***
3"	10.9	4.9	9.0	830	28.2	***BV2GG-300CC-A***
4"	13.2	6.6	9.6	1323	41.4	***BV2GG-400CC-A***

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Repair Kits

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Repair kit contains:
(2) RTFE seats
(2) RTFE gaskets
(1) RTFE thrust washer
(3) RTFE stem packing

- private label handle covers available, see page 187

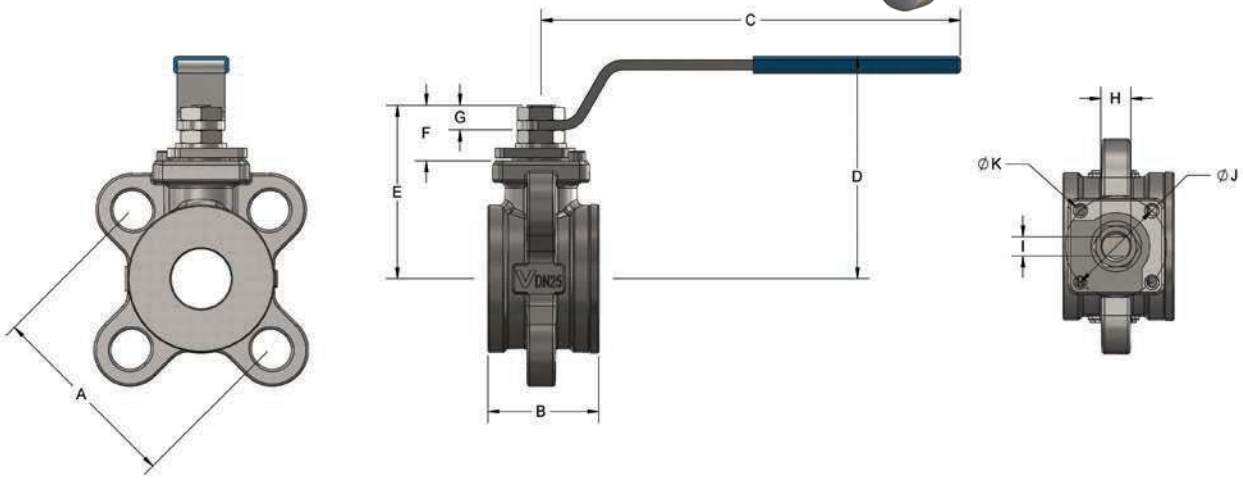
Size	Part Number
½"	***BV-2G-GK050***
¾"	***BV-2G-GK075***
1"	***BV-2G-GK100***
1½"	***BV-2G-GK150***
2"	***BV-2G-GK200***
2½"	***BV-2G-GK250***
3"	***BV-2G-GK300***
4"	***BV-2G-GK400***

Industrial Stainless Steel Wafer Ball Valve

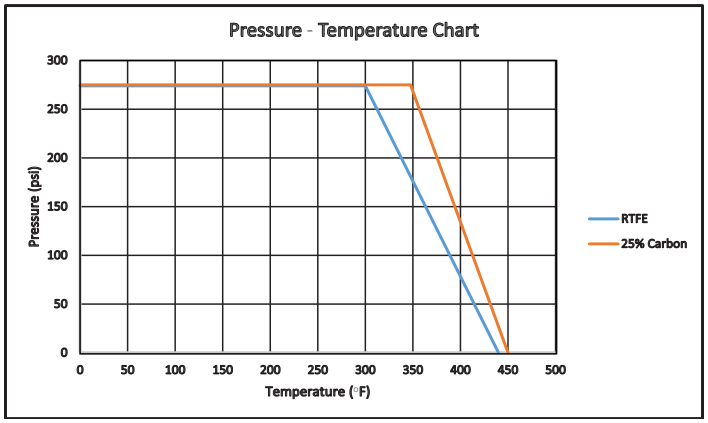
NEW

Features:
- ANSI Class 150 wafer style ball valve
- full port, sizes 1" to 4"
- blow out proof stem
- ideal option to high performance butterflies
- space saving design
- antistatic stem design
- locking plate included

Materials:
- body – CF8M
- ball and end connection – 316 stainless steel
- elastomers – FKM
- stem Seal – PTFE



Size	A	B	C	D	E	F	G	H	I	J	K	Cv	Weight (lb)	Break Torque (in/lb)
1.00	ANSI 150	1.81	6.85	3.58	2.81	0.90	0.41	M12	0.31	F04	4xM5	49.88	2.86	124
1.25	ANSI 150	2.12	6.85	3.74	2.95	0.90	0.41	M12	0.31	F04	4xM5	103.24	3.64	150
1.50	ANSI 150	2.50	9.84	4.33	3.34	1.10	0.59	M16	0.39	F05	4xM6	266.80	4.74	195
2.00	ANSI 150	3.23	9.84	4.68	3.68	1.10	0.59	M16	0.39	F05	4xM6	307.40	8.27	292
2.50	ANSI 150	4.05	12.63	5.70	4.78	1.31	0.70	M20	0.55	F07	4xM8	626.40	16.20	540
3.00	ANSI 150	4.80	12.63	6.06	5.15	1.31	0.70	M20	0.55	F07	4xM8	1012.68	22.71	637
4.00	ANSI 150	5.60	12.53	6.57	5.67	1.31	0.70	M20	0.55	F10	4xM8	1612.40	35.28	956



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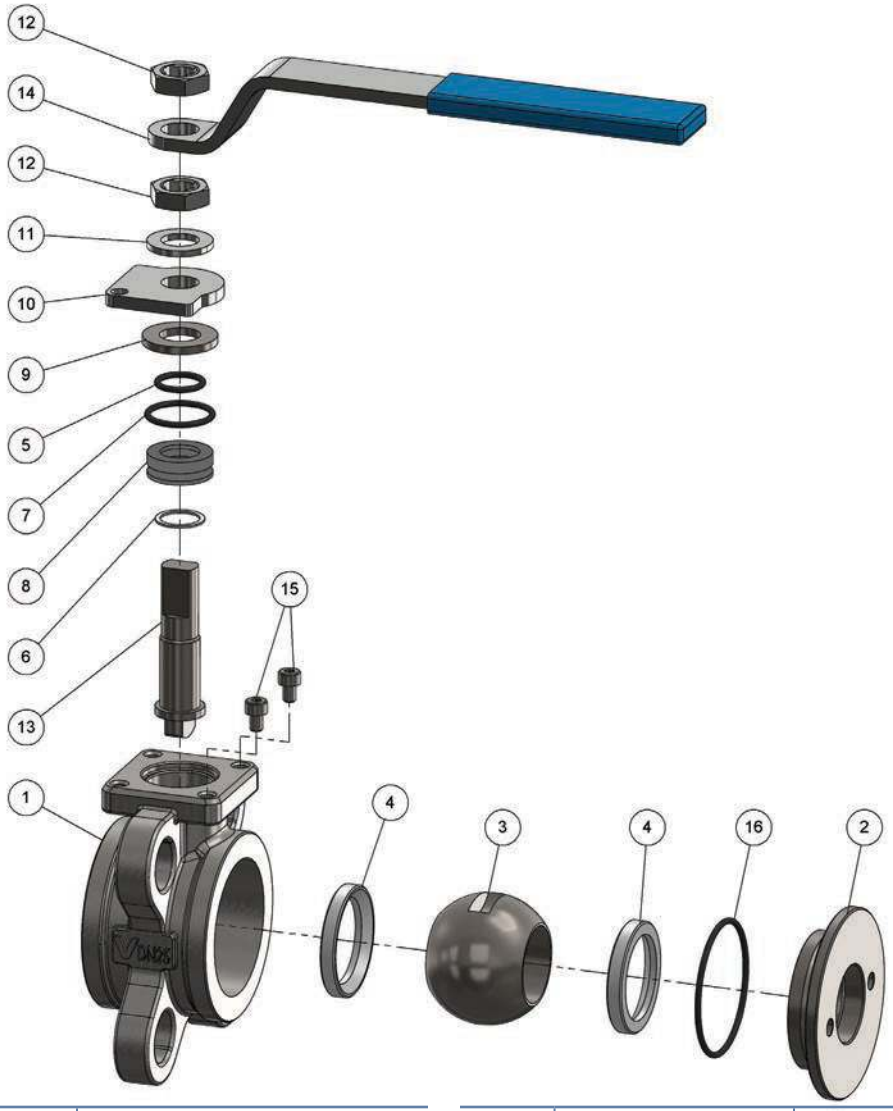
Industrial Wafer Ball Valve - Exploded View



Size	Part Number
1"	***BV2IC-100WW-A***
1¼"	***BV2IC-125WW-A***
1½"	***BV2IC-150WW-A***
2"	***BV2IC-200WW-A***
2½"	***BV2IC-250WW-A***
3"	***BV2IC-300WW-A***
4"	***BV2IC-400WW-A***

Note: also option for RTFE (BV2IG)

Item #	Description	Material	Qty
1	body	316 SS	1
2	end connection	316 SS	1
3	ball	316 SS	1
4	ball seats	25% Carbon PTFE	2
5	O-ring	FKM	1
6	thrust washer	PTFE	1
7	ring	FKM	1
8	stem seal	PTFE	1
9	packing gland	316 SS	1
10	end stop	Carbon Steel	1
11	spring washer	Carbon Steel	2
12	nut	Carbon Steel	2
13	stem	316 SS	1
14	handle	Carbon Steel	1
15	screw	Carbon Steel	2
16	O-ring	FKM	1

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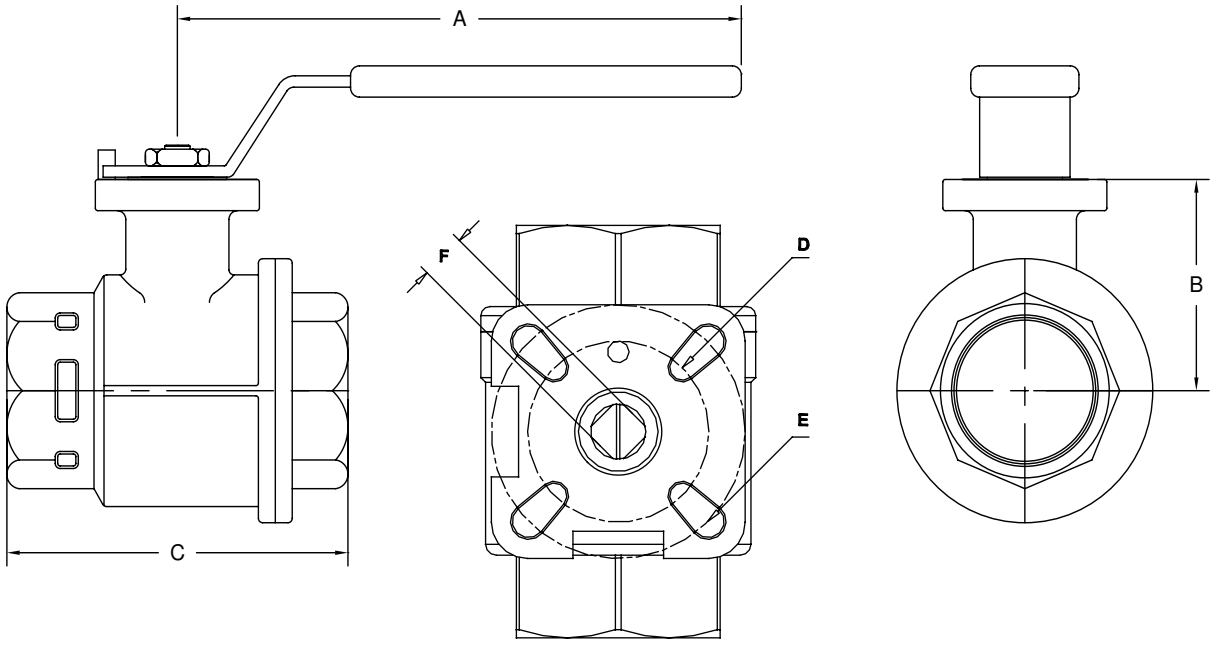
2 Piece Industrial Stainless Steel Ball Valves

Features:
- full port stainless steel ball valves with FNPT ends
- blow-out proof stem
- ISO 5211 mounting pad
- CF8M stainless body, ends and ball
- RTFE seats and PTFE seals
- private label handle covers available, see page 187
- maximum pressure: ½" - 2" **1,000 PSI** WOG
  2½" - 3" **800 PSI** WOG
- maximum temperature: **350°F**



Size	A	B	C	D	E	F	Break Torque (in-lbs.)	Weight (lbs.)	*Stainless Steel* Part Number
¼"	n/a	1.06	2.17	F03	F04	9	65	0.53	***BV2HG-02511-A***
⅜"	n/a	1.06	2.17	F03	F04	9	86	0.53	***BV2HG-03811-A***
½"	n/a	1.18	2.41	F03	F04	9	86	0.66	***BV2HG-05011-A***
¾"	n/a	1.29	2.99	F03	F04	9	97	1.12	***BV2HG-07511-A***
1"	n/a	1.72	3.43	F04	F05	9	160	1.87	***BV2HG-10011-A***
1¼"	5.35	1.86	3.93	F04	F05	9	239	2.76	***BV2HG-12511-A***
1½"	9.17	2.34	4.48	F05	F07	11	398	4.45	***BV2HG-15011-A***
2"	9.17	2.74	5.21	F05	F07	11	600	6.3	***BV2HG-20011-A***
2½"	17.32	3.29	6.33	F07	F10	14	980	11.62	***BV2HG-25011-A***
3"	17.32	4.67	7.34	F07	F10	17	1000	24.69	***BV2HG-30011-A***

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

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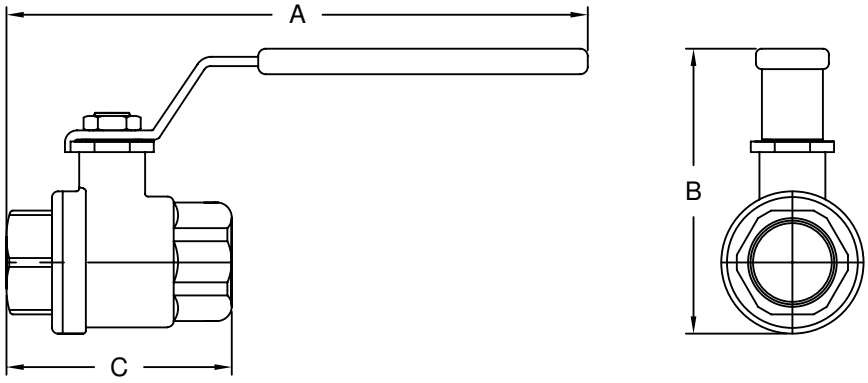
Full Port Stainless Steel Ball Valves

Features:

- for use in water, oil and gas
- ¼" - 2" rated to **1000 PSI** WOG (CWP); 2½" - 3" rated to **800 PSI** WOG (CWP); **100 PSI** saturated steam
- 316 stainless steel body, ball and stem
- PTFE seat, joint gasket and thrust washer
- private label handle covers available, see page 187
- blow-out proof stem design
- full port
- temperature range **-20°F** to **300°F**



Size	A	B	C	*316 Stainless Steel* Part Number
¼"	5.25	2.75	1.25	***SSBV25***
⅜"	5.25	3.00	2.25	***SSBV38***
½"	6.50	3.25	2.75	***SSBV50***
¾"	6.75	3.50	3.00	***SSBV75***
1"	8.25	4.00	3.50	***SSBV100***
1¼"	8.75	4.50	4.00	***SSBV125***
1½"	9.75	5.00	4.50	***SSBV150***
2"	10.00	5.75	5.00	***SSBV200***
2½"	13.50	7.75	6.50	***SSBV250***
3"	14.00	8.50	7.00	***SSBV300***

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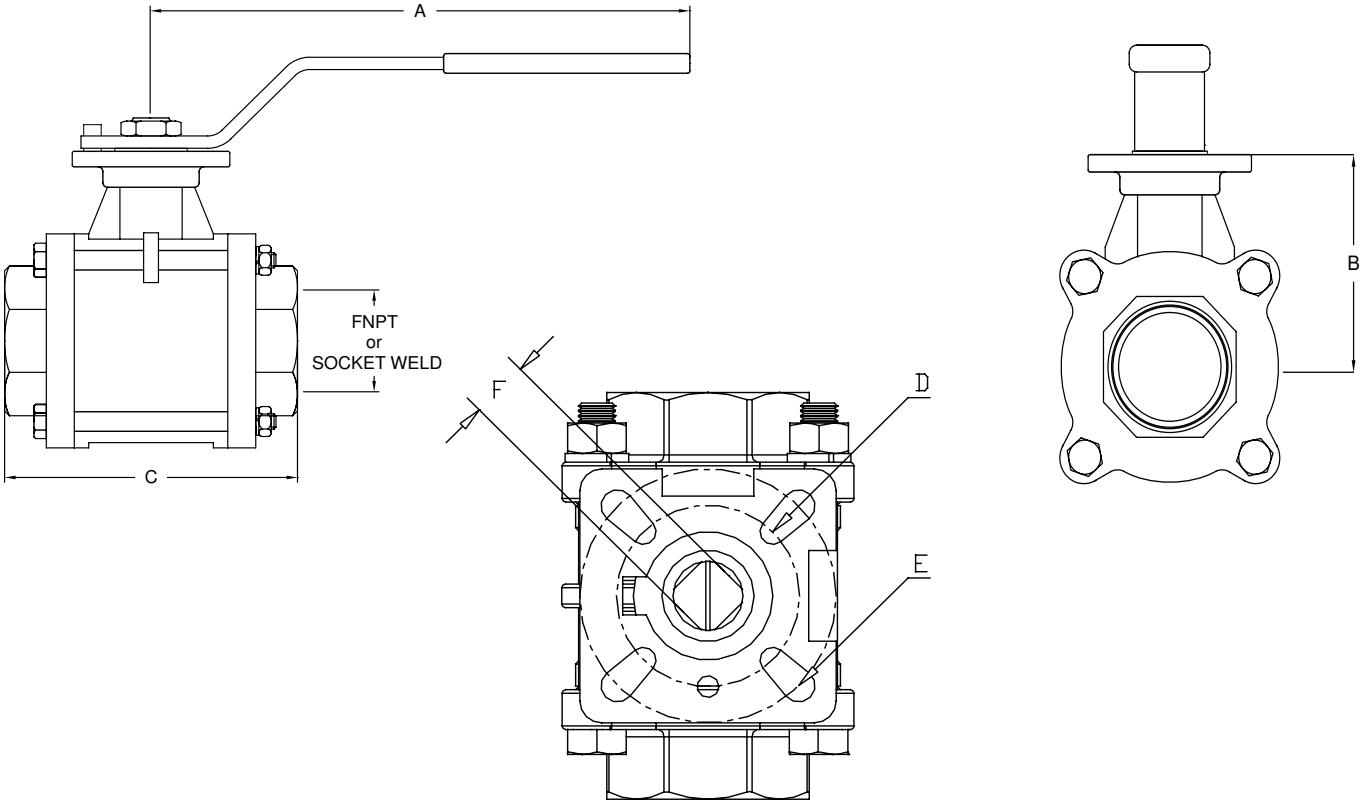
All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

3 Piece Industrial Stainless Steel Ball Valves

Features:

- full port stainless steel ball valves with FNPT ends or socket weld
- blow-out proof stem
- live-loaded stem packing
- 316 stainless steel stem
- swing out design for easy maintenance
- ISO 5211 mounting pad
- CF8M stainless steel body and ball
- private label handle covers available, page 187
- maximum pressure: ½" - 2" **1,000 PSI** WOG at 65°F
  2½" - 3" **800 PSI** WOG at 65°F
  4" **600 PSI** WOG at 65°F
- maximum temperature: **400°F**



Size	A	B	C	D	E	F	FNPT	Socket Weld	FNPT Part Number	Socket Weld Part Number
¼"	4.72	1.52	2.51	F03	F04	9	0.25	n/a	***BV2I*-02511-A***	***BV2I*-02533-A***
⅜"	4.72	1.52	2.51	F03	F04	9	0.38	0.71	***BV2I*-03811-A***	***BV2I*-03833-A***
½"	4.72	1.67	2.84	F03	F04	9	0.50	0.88	***BV2I*-05011-A***	***BV2I*-05033-A***
¾"	4.72	1.91	3.11	F03	F04	9	0.75	1.09	***BV2I*-07511-A***	***BV2I*-07533-A***
1"	5.35	2.17	3.29	F04	F05	11	1.00	1.35	***BV2I*-10011-A***	***BV2I*-10033-A***
1¼"	5.35	2.35	4.14	F04	F05	11	1.25	1.70	***BV2I*-12511-A***	***BV2I*-12533-A***
1½"	9.17	2.77	4.41	F05	F07	14	1.50	1.94	***BV2I*-15011-A***	***BV2I*-15033-A***
2"	9.17	3.38	5.13	F05	F07	14	2.00	2.44	***BV2I*-20011-A***	***BV2I*-20033-A***
2½"	17.32	4.29	6.64	F07	F10	17	2.50	3.01	***BV2I*-25011-A***	***BV2I*-25033-A***
3"	17.32	4.67	7.34	F07	F10	17	3.00	3.52	***BV2I*-30011-A***	***BV2I*-30033-A***
4"	17.32	4.54	8.88	F07	F10	17	4.00	4.52	***BV2I*-40011-A***	***BV2I*-40033-A***

* Use G or C; G = RTFE, C = 25% Carbon PTFE

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

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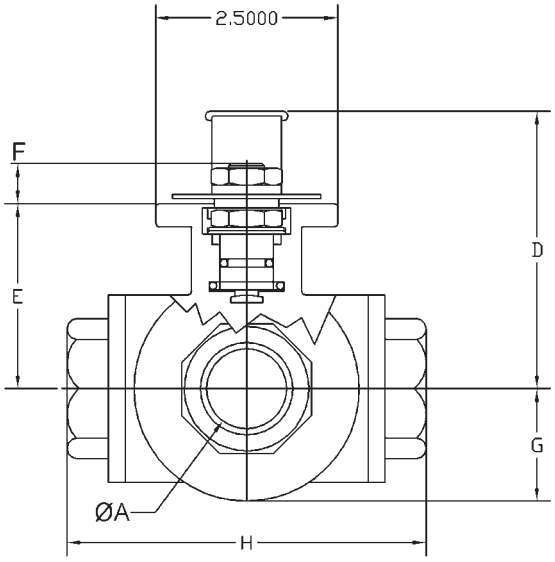
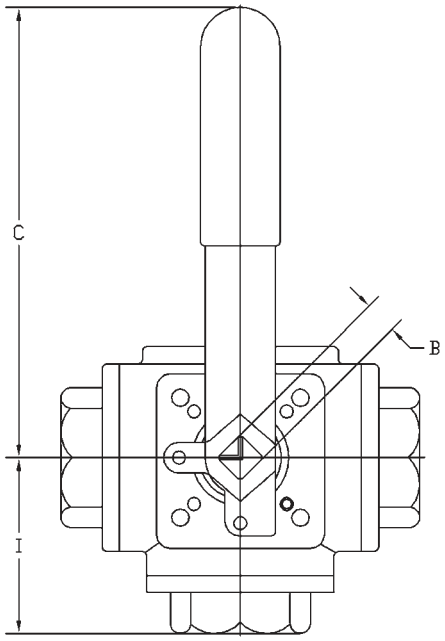
3-way Industrial Stainless Steel Ball Valves

Features:

- full port stainless steel ball valves with FNPT ends
- blow-out proof stem
- ISO 5211 mounting pad
- CF8M stainless steel body and ball
- RTFE seats and seals
- live-loaded stem packing
- for flow options see page 177
- private label handle covers available, page 187
- maximum pressure: ¼" - 1" **1,000 PSI** WOG
  1¼" - 2" **800 PSI** WOG
- maximum temperature: **350°F**





Size	A	B (mm)	C	D	E	F	G	H	I	Break Torque (in-lbs.)	*Stainless Steel* 'L' port Part Number	*Stainless Steel* 'T' port Part Number
¼"	.43	9	5.12	2.44	1.45	.40	.78	2.83	1.41	157	***BV3IGLF-0251-A***	***BV3IGTF-0251-A***
⅜"	.47	9	5.12	2.44	1.45	.40	.78	2.83	1.41	157	***BV3IGLF-0381-A***	***BV3IGTF-0381-A***
½"	.59	9	5.12	2.51	1.65	.45	.91	3.26	1.63	207	***BV3IGLF-0501-A***	***BV3IGTF-0501-A***
¾"	.78	11	6.49	3.22	1.65	.59	1.10	3.89	1.94	276	***BV3IGLF-0751-A***	***BV3IGTF-0751-A***
1"	.98	11	6.49	3.50	2.18	.55	1.33	4.40	2.20	484	***BV3IGLF-1001-A***	***BV3IGTF-1001-A***
1¼"	1.25	14	8.07	3.85	2.48	.64	1.53	4.92	2.46	692	***BV3IGLF-1251-A***	***BV3IGTF-1251-A***
1½"	1.50	14	8.07	4.25	2.88	.62	1.88	5.86	2.93	950	***BV3IGLF-1501-A***	***BV3IGTF-1501-A***
2"	2.0	17	12.79	5.51	3.63	.88	2.36	6.85	3.42	1555	***BV3IGLF-2001-A***	***BV3IGTF-2001-A***

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

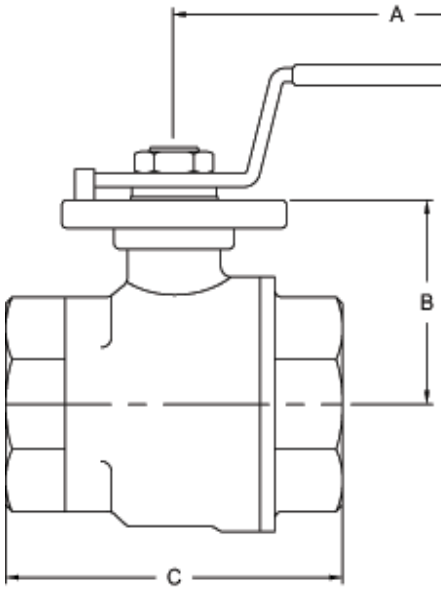
T

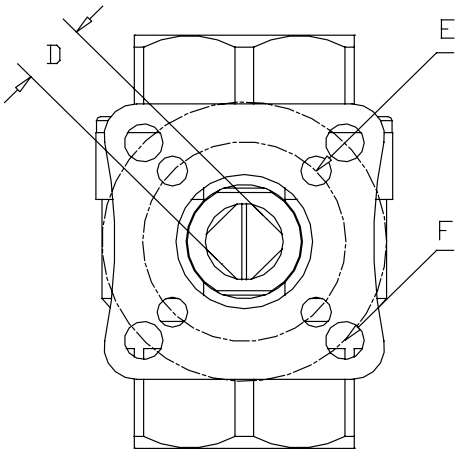
2 Piece Industrial Brass Ball Valves

Features:
- full port brass ball valves with FNPT ends
- blow-out proof stem
- ISO 5211 mounting pad
- PTFE seats
- private label handle covers available, see page 187
- maximum pressure: **600 PSI** WOG
- maximum temperature: **300°F**

¼" - 2"

2½" - 4"





Size	A	B	C	D (mm)	E	F	Break Torque (in-lbs.)	Weight (lbs.)	*Brass* Part Number
½"	4.40	1.51	2.16	9	F04	n/a	86	0.86	***BV2BV-05011-A***
¾"	4.40	1.63	2.80	11	F04	F05	149	0.91	***BV2BV-07511-A***
1"	5.40	1.76	3.23	11	n/a	F05	193	1.55	***BV2BV-10011-A***
1¼"	7.30	2.13	3.58	11	F05	F07	290	2.14	***BV2BV-12511-A***
1½"	7.80	2.32	4.06	14	F05	F07	470	3.71	***BV2BV-15011-A***
2"	7.80	2.65	4.76	14	F05	F07	634	5.52	***BV2BV-20011-A***
2½"	10.40	3.84	6.22	17	n/a	F07	699	8.83	***BV2BV-25011-A***
3"	10.40	4.17	7.40	17	n/a	F07	722	13.29	***BV2BV-30011-A***
4"	12.80	4.76	8.74	17	n/a	F07	1472	18.32	***BV2BV-40011-A***

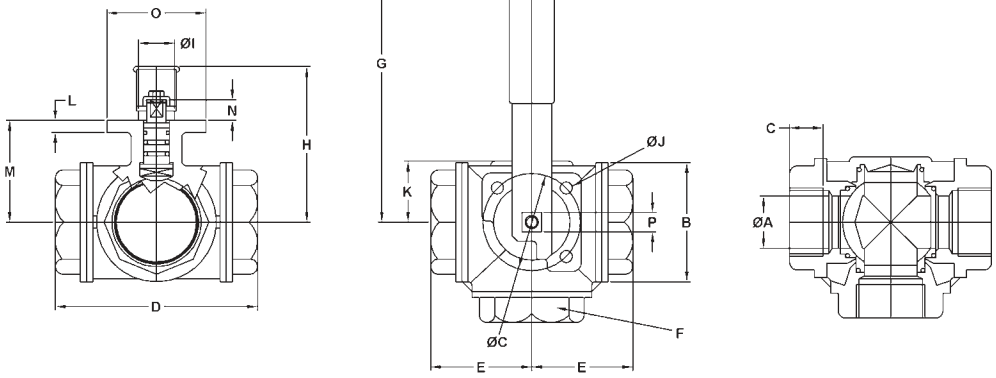
T

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

3-way Industrial Brass Ball Valves

Features:

- reduced port brass ball valves with FNPT ends
- blow-out proof stem
- ISO 5211 mounting pad
- PTFE seats with O-ring backing
- double O-ring stem packing
- for flow options see page 177
- private label handle covers available, see page 187
- maximum pressure: **400 PSI** WOG
- maximum temperature: **300°F**



Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P (mm)
¼"	4.8	2.4	2.6	2.64	1.32	.86	4.72	2.44	.87	.23	.77	.20	1.20	.35	1.49	9
⅜"	4.8	2.4	2.6	2.64	1.32	.86	4.72	2.44	.87	.23	.77	.20	1.20	.35	1.49	9
½"	4.8	2.4	2.9	2.87	1.44	1.06	4.72	2.44	.87	.23	.77	.20	1.20	.35	1.49	9
¾"	4.8	2.5	3.2	3.19	1.60	1.25	4.72	2.52	.87	.23	.87	.20	1.29	.35	1.49	9
1"	6.7	3.0	3.7	3.74	1.87	1.61	6.69	2.95	.94	.27	1.00	.28	1.63	.43	1.97	11
1¼"	6.7	3.2	4.4	4.39	2.20	1.96	6.69	3.17	.94	.27	1.22	.28	1.85	.43	1.97	11
1½"	6.7	3.7	4.9	4.86	2.43	2.16	6.69	3.66	1.26	.27	1.79	.28	2.34	.43	1.97	11
2"	9.1	4.4	5.7	5.73	2.87	2.75	9.05	4.43	1.46	.35	1.75	.32	2.90	.59	2.75	14
2½"	9.1	4.9	6.9	6.93	3.47	3.34	9.05	4.86	1.46	.35	2.20	.32	3.35	.59	2.75	14
3"	9.1	4.9	7.1	7.08	3.54	4.13	9.05	4.86	1.46	.35	2.20	.32	3.35	.59	2.75	14

Size	Break Torque (in-lbs.)	Weight (lbs.)	*Brass* 'L' port Part Number	*Brass* 'T' port Part Number
¼"	79	1.22	***BV3BVLR-0251-A***	***BV3BVTR-0251-A***
⅜"	79	1.16	***BV3BVLR-0381-A***	***BV3BVTR-0381-A***
½"	79	1.21	***BV3BVLR-0501-A***	***BV3BVTR-0501-A***
¾"	79	1.44	***BV3BVLR-0751-A***	***BV3BVTR-0751-A***
1"	225	2.64	***BV3BVLR-1001-A***	***BV3BVTR-1001-A***
1¼"	225	4.15	***BV3BVLR-1251-A***	***BV3BVTR-1251-A***
1½"	225	6.02	***BV3BVLR-1501-A***	***BV3BVTR-1501-A***
2"	412	9.08	***BV3BVLR-2001-A***	***BV3BVTR-2001-A***
2½"	570	16.33	***BV3BVLR-2501-A***	***BV3BVTR-2501-A***
3"	570	19.55	***BV3BVLR-3001-A***	***BV3BVTR-3001-A***

T

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Private Label Vinyl Handle Covers

Ordering Information

- 100 pieces per size minimum order
- customer to supply artwork for screen printing

BHC-SR-W

- Dxion Sanitary Handle Cover
- Size
- Cover Color
- Screenprint Color

Size

S .....small
M.....medium
L .....large

Cover Color

R.....red
Y.....yellow
B.....blue
G.....green
BK.....black

Screenprint Color

W.....white
BK.....black
N.....none

Product Specifications

Size	Length	Width	Thickness
small	3.503	0.866	0.067
medium	4.409	1.102	0.071
large	9.251	1.535	0.084

T

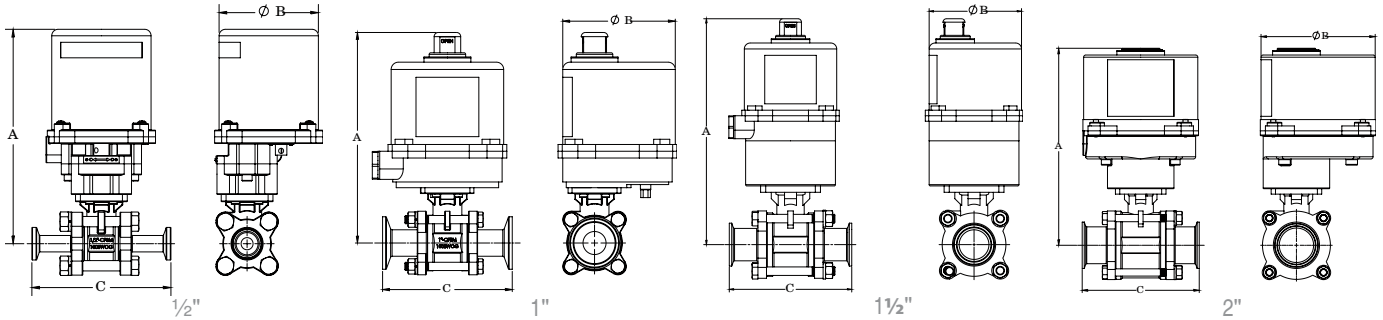
Electrically Actuated 3-Piece Sanitary Ball Valves

Features and Benefits:

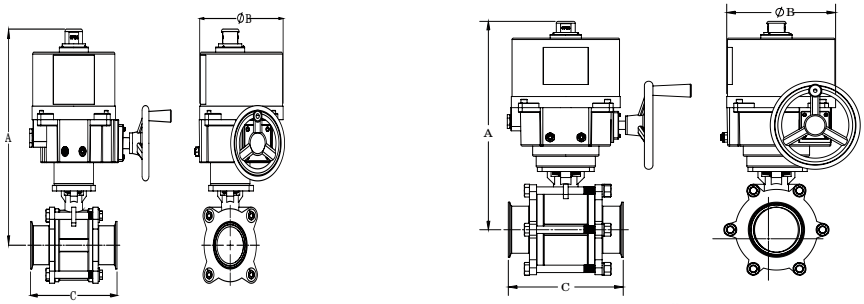
- compact design for areas with tight space restrictions
- full port design offers lower pressure drop and a less turbulent flow
- balanced encapsulated construction minimizes cold- flow of seats
- precision stainless steel balls reduce torque and friction losses while extending seat life
- blow-out proof stem
- live-loaded stem packing
- ID polish is R_a 32 minimum
- pressure rating: ½" - 2" **1000 PSI** WOG, 2½" - 4" **800 PSI** WOG
- Virgin PTFE seats

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F** to **140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant



½" 1" 1½" 2"



2½" 4"

Size	A	B	C	Override	*316 Stainless Steel* Part # 110 VAC
½"	6.53	3.07	4.33	LEVER	***BV2CV-050CC-EA***
¾"	6.83	3.07	4.69	LEVER	***BV2CV-075CC-EA***
1"	7.96	4.25	4.89	HEX	***BV2CV-100CC-EA***
1½"	10.45	4.25	5.64	OPTIONAL	***BV2CV-150CC-EA***
2"	10.69	6.22	6.38	N/A	***BV2CV-200CC-EA***
2½"	13.88	7.48	7.76	HANDWHEEL	***BV2CV-250CC-EA***
3"	14.22	7.48	9.13	HANDWHEEL	***BV2CV-300CC-EA***
4"	17.7	9.06	9.56	HANDWHEEL	***BV2CV-400CC-EA***

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• A wide variety of options are available: modulating, extra switches, transmitters, potentiometer and seat material. Contact Dixon Sanitary Engineering for further assistance.

Pneumatically Actuated 3-Piece Stainless Ball Valves

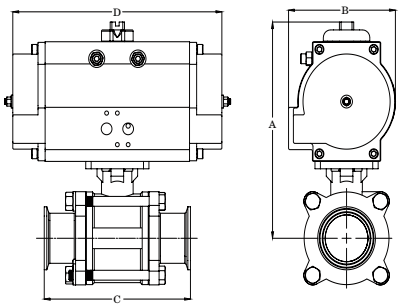
Features and Benefits:

- compact design for areas with tight space restrictions
- full port design offers lower pressure drop and a less turbulent flow
- balanced encapsulated construction minimizes cold- flow of seats
- precision stainless steel balls reduce torque and friction losses while extending seat life
- blow-out proof stem
- live-loaded stem packing
- ID polish is R_a 32 minimum
- pressure rating: ½" - 2" **1000 PSI** WOG, 2½" - 4" **800 PSI** WOG
- Virgin PTFE seats

Rack and Pinion Actuator:

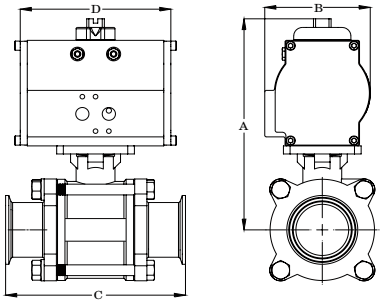
- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for ±5º travel adjustment
- **80 PSI** plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40ºF** to **200ºF**
- tested to one million cycles

Spring Return



Size	A	B	C	D	*316 Stainless Steel* Part #
½"	5.26	3.21	4.33	6.84	***BV2CV-050CC-BBC***
¾"	5.68	3.21	4.69	6.84	***BV2CV-075CC-BBC***
1"	6.00	3.21	4.89	6.84	***BV2CV-100CC-BBC***
1½"	7.37	3.74	5.64	7.44	***BV2CV-150CC-BBC***
2"	8.64	4.66	6.38	9.28	***BV2CV-200CC-BBC***
2½"	10.21	5.48	7.76	13.25	***BV2CV-250CC-BBC***
3"	10.54	5.48	9.13	13.25	***BV2CV-300CC-BBC***
4"	13.83	8.00	9.56	18.00	***BV2CV-400CC-BBC***

Double Acting



Size	A	B	C	D	*316 Stainless Steel* Part #
½"	4.93	2.90	4.33	4.73	***BV2CV-050CC-BCC***
¾"	5.23	2.90	4.69	4.73	***BV2CV-075CC-BCC***
1"	5.98	3.23	4.89	5.58	***BV2CV-100CC-BCC***
1½"	7.36	3.74	5.64	5.78	***BV2CV-150CC-BCC***
2"	7.72	3.74	6.38	5.78	***BV2CV-200CC-BCC***
2½"	9.41	4.66	7.76	7.25	***BV2CV-250CC-BCC***
3"	10.54	5.48	9.13	10.63	***BV2CV-300CC-BCC***
4"	10.54	5.48	9.56	10.63	***BV2CV-400CC-BCC***

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• A wide variety of seat options, switches, solenoids, positioners, etc. are available. Contact Dixon Sanitary Engineering for further assitance.

Electrically Actuated 2-Piece Stainless Ball Valves

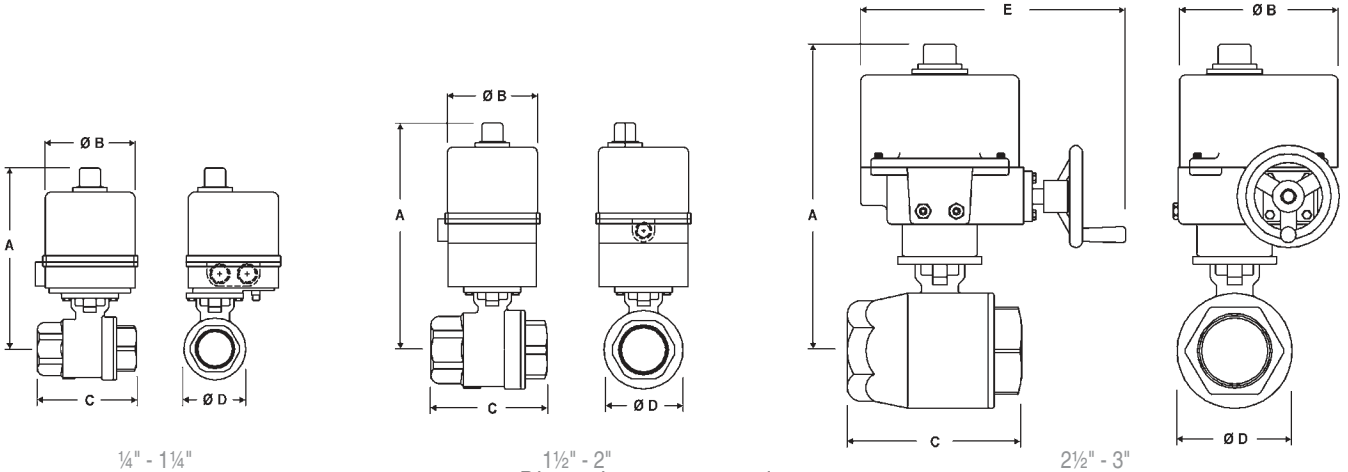
Features:

2-Piece Stainless Ball Valve

- RTFE seats and seals
- blow-out proof stem
- live-loaded stem packing
- ISO 5211 mounting pad
- pressure rating: ¼" - 2" **1000 PSI** WOG, 2½" - 3" **800 PSI** WOG
- temperature range: **-40°F** to **350°F**

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F** to **140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant



¼" - 1¼" 1½" - 2" 2½" - 3"

Dimensions are approximate.

Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	E	Override	*316 Stainless Steel* Part #
¼"	7.79	4.50	2.56	1.40	NA	standard	***BV2HG-02511***
⅜"	7.79	4.50	2.56	1.40	NA	standard	***BV2HG-03811***
½"	7.74	4.50	2.95	1.40	NA	standard	***BV2HG-05011***
¾"	7.84	4.50	3.15	1.75	NA	standard	***BV2HG-07511***
1"	8.09	4.50	3.54	1.75	NA	standard	***BV2HG-10011***
1¼"	8.29	4.50	4.33	2.58	NA	standard	***BV2HG-12511***
1½"	8.69	4.50	4.72	2.97	NA	N/A	***BV2HG-15011***
2"	11.13	4.50	5.51	2.73	NA	N/A	***BV2HG-20011***
2½"	13.72	7.08	7.28	4.68	12.83	handwheel	***BV2HG-25011-EP***[1]
2½"	10.69	6.06	7.28	4.68	NA	N/A	***BV2HG-25011***
3"	13.72	7.08	8.07	5.44	12.83	handwheel	***BV2HG-30011***

[1] for 110VAC 2½" with manual override use EP

A wide variety of options are available: modulating, extra switches, transmitters, potentiometer, etc.
Contact Dixon Sanitary at 800.789.1718 or visit dixonvalve.com for details.

Caution !

Even though there are torque safety factors built into our automated ball valve packages, actual service conditions must also be considered when selecting the proper product for the appropriate application.

For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult Dixon when dealing with these types of applications.

T

Pneumatically Actuated 2-Piece Stainless Ball Valves

Features:

2-Piece Stainless Ball Valve

- RTFE seats and seals
- blow-out proof stem
- live-loaded stem packing
- ISO 5211 mounting pad
- pressure rating: ¼" - 2" **1000 PSI** WOG, 2½" - 3" **800 PSI** WOG
- temperature range: ¼" - 2" - **-40°F** to **350°F,** 2½" - 3" -**-40°F** to **325°F**

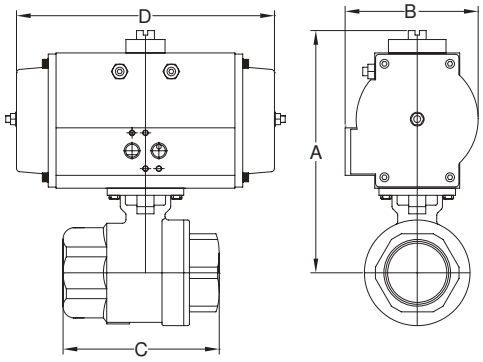
Rack and Pinion Actuator

- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for ±5º travel adjustment
- **80 PSI** plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40ºF** to **200ºF**
- tested to one million cycles

Spring Return (normally closed)

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

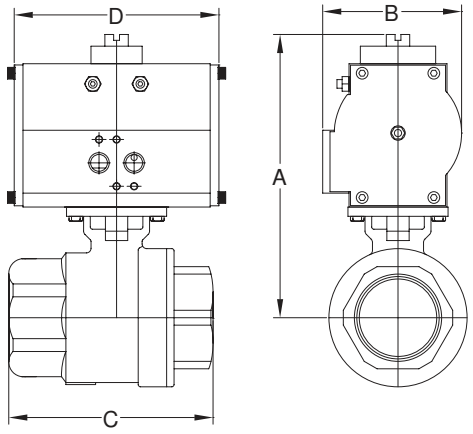
Size	A	B	C	D	*316 Stainless Steel* Part #
¼"	5.21	2.80	2.56	5.49	***BV2HG-02511-BBC***
⅜"	5.21	2.80	2.56	5.49	***BV2HG-03811-BBC***
½"	5.16	2.80	2.95	5.49	***BV2HG-05011-BBC***
¾"	5.26	2.80	3.15	5.49	***BV2HG-07511-BBC***
1"	6.64	3.74	3.54	8.09	***BV2HG-10011-BBC***
1¼"	6.84	3.74	4.33	8.09	***BV2HG-12511-BBC***
1½"	8.14	4.69	4.72	9.84	***BV2HG-15011-BBC***
2"	8.69	4.69	5.51	9.84	***BV2HG-20011-BBC***
2½"	9.54	5.53	7.28	13.98	***BV2HG-25011-BBC***
3"	11.39	7.29	8.07	16.61	***BV2HG-30011-BBC***



Double Acting

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	*316 Stainless Steel* Part #
¼"	4.25	1.77	2.56	4.33	***BV2HG-02511-BCC***
⅜"	4.25	1.77	2.56	4.33	***BV2HG-03811-BCC***
½"	4.20	1.77	2.95	4.33	***BV2HG-05011-BCC***
¾"	4.30	1.77	3.15	4.33	***BV2HG-07511-BCC***
1"	5.89	3.20	3.54	5.68	***BV2HG-10011-BCC***
1¼"	6.09	3.20	4.33	5.68	***BV2HG-12511-BCC***
1½"	7.24	3.74	4.72	5.87	***BV2HG-15011-BCC***
2"	7.79	3.74	5.51	5.87	***BV2HG-20011-BCC***
2½"	8.75	4.69	7.28	7.20	***BV2HG-25011-BCC***
3"	10.01	5.53	8.07	10.22	***BV2HG-30011-BCC***



A wide variety of switches, solenoids, positioners, etc., are available.
Contact Dixon Sanitary at 800.789.1718 or visit dixonvalve.com for details.

Caution !

Even though there are torque safety factors built into our automated ball valve packages, actual service conditions must also be considered when selecting the proper product for the appropriate application.

For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult Dixon when dealing with these types of applications.

T

Electrically Actuated 3-Piece Stainless Ball Valves

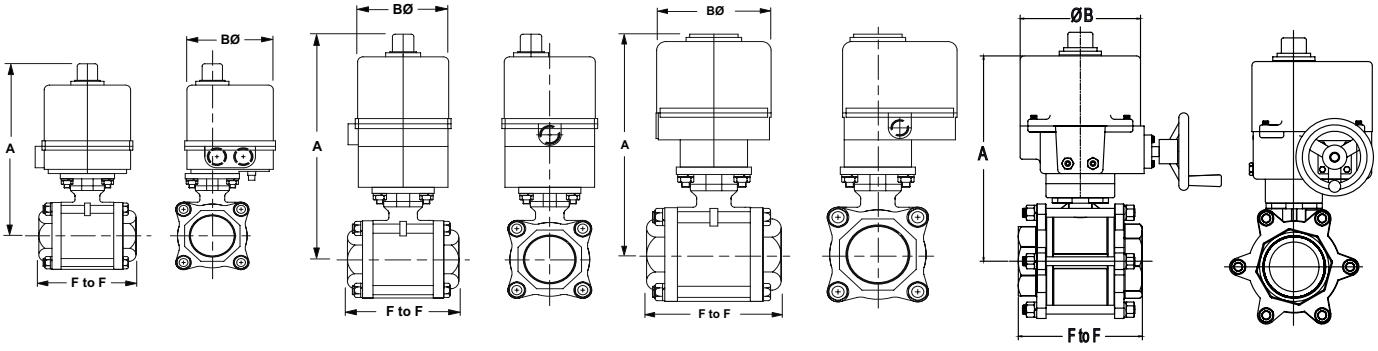
Features:

3-Piece Stainless Ball Valve

- RTFE seats
- blow-out proof stainless steel stem
- live-loaded stem packing
- ISO 5211 mounting pad
- swing out in-line easy maintenance
- ½" - 2" rated to **1000 PSI** WOG; 3" rated to **800 PSI** WOG
- temperature range: ½" - 2" - **-40°F** to **350°F,** 3" - 4" -**-40°F** to **325°F**

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F** to **140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant



½" - 1¼" 1½" - 2" 3" 4"

Dimensions are approximate.
Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	F to F	A	B	Override	*316 Stainless Steel* Part #
½"	2.6	7.8	4.5	standard	***BV2IG-05011***
¾"	3.0	8.0	4.5	standard	***BV2IG-07511***
1"	3.4	8.3	4.5	standard	***BV2IG-10011***
1¼"	4.0	8.5	4.5	standard	***BV2IG-12511***
1½"	4.7	9.2	4.5	N/A	***BV2IG-15011***
2"	5.2	11.4	4.5	N/A	***BV2IG-20011***
3"	7.2	12.2	6.1	N/A	***BV2IG-30011***
4"	8.9	16.1	7.1	N/A	***BV2IG-40011***

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A wide variety of options are available: modulating, extra switches, transmitters, potentiometer, etc.
Contact Dixon Sanitary at 800.789.1718 or visit dixonvalve.com for details.

Caution !

Even though there are torque safety factors built into our automated ball valve packages, actual service conditions must also be considered when selecting the proper product for the appropriate application.

For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult Dixon when dealing with these types of applications.

Pneumatically Actuated 3-Piece Stainless Ball Valves

Features:

3-Piece Stainless Ball Valve

- RTFE seats
- blow-out proof stainless steel stem
- live-loaded stem packing
- ISO 5211 mounting pad
- swing out in-line easy maintenance
- ½" - 2" rated to **1000 PSI** WOG; 3" rated to **800 PSI** WOG
- temperature range: ½" - 2" - **-40°F** to **350°F,** 3" - 4" **--40°F** to **325°F**

Rack and Pinion Actuator

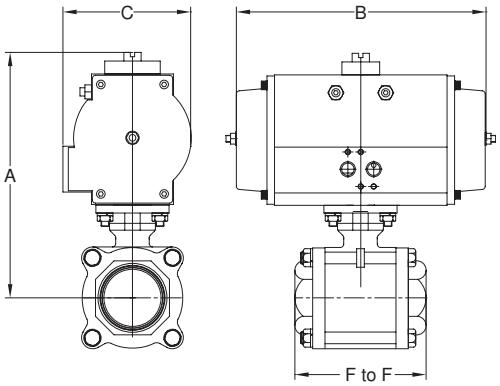
- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for ±5º travel adjustment
- **80 PSI** plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40ºF** to **200ºF**
- tested to one million cycles

Spring Return (normally closed)

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	F to F	A	B	C	*316 Stainless Steel* Part #
½"	2.6	7.0	7.7	3.2	***BV2IG-05011-BBC[1]***
¾"	3.0	7.2	7.7	3.2	***BV2IG-07511-BBC[1]***
1"	3.4	6.1	7.7	3.2	***BV2IG-10011-BBC***
1¼"	4.0	6.3	7.7	3.2	***BV2IG-12511-BBC***
1½"	4.7	7.7	8.1	3.7	***BV2IG-15011-BBC***
2"	5.2	8.8	8.1	3.7	***BV2IG-20011-BBC***
3"	7.2	10.2	9.8	4.7	***BV2IG-30011-BBC***
4"	8.9	12.4	10.9	5.5	***BV2IG-40011-BBC***

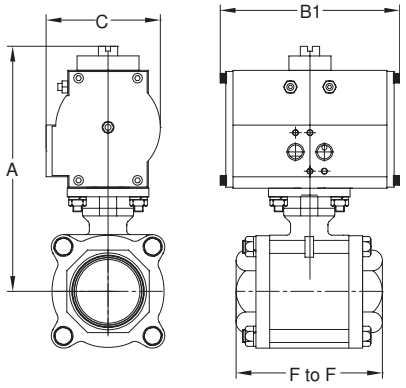
[1] bracket and coupler required for ½" and ¾" spring return actuator



Double Acting

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	F to F	A	B1	C	*316 Stainless Steel* Part #
½"	2.6	5.0	4.7	2.4	***BV2IG-05011-BCC***
¾"	3.0	5.2	4.7	2.4	***BV2IG-07511-BCC***
1"	3.4	6.1	5.7	3.2	***BV2IG-10011-BCC***
1¼"	4.0	6.3	5.7	3.2	***BV2IG-12511-BCC***
1½"	4.7	7.7	5.9	3.7	***BV2IG-15011-BCC***
2"	5.2	8.0	5.9	3.7	***BV2IG-20011-BCC***
3"	7.2	10.2	7.2	4.7	***BV2IG-30011-BCC***
4"	8.9	13.8	16.3	7.2	***BV2IG-40011-BCC***



T

A wide variety of switches, solenoids, positioners, etc., are available.
Contact Dixon Sanitary at 800.789.1718 or visit dixonvalve.com for details.

Caution !

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Electrically Actuated Brass Ball Valves

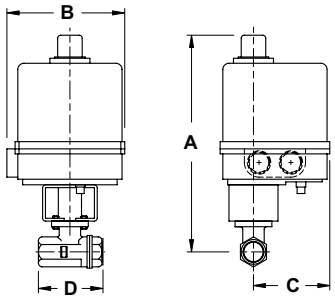
Features:

2-Piece Brass Ball Valve

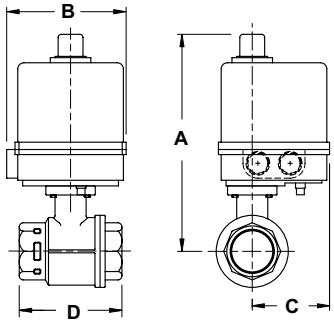
- brass ball
- FKM elastomers
- blow-out proof brass stem
- PTFE seats with double O-ring stem packing
- ISO 5211 mounting pad
- pressure rating: **600 PSI** WOG - **150 PSI** WSP
- maximum temperature: **300°F**

Electric Actuator

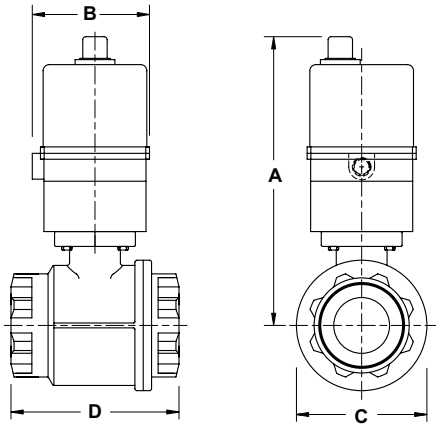
- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F** to **140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant



½" - ¾"
bracket & coupler
included



1" - 1¼"



1½" - 3"

Dimensions are approximate.
Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	Override	*Brass* Part #
½"	8.8	4.5	3.1	2.6	standard	***BV2BV-05011***
¾"	9.2	4.5	3.1	3.0	standard	***BV2BV-07511***
1"	9.4	4.5	3.1	3.4	standard	***BV2BV-10011***
1¼"	9.5	4.5	3.1	3.7	standard	***BV2BV-12511***
1½"	8.7	4.5	3.1	4.1	N/A	***BV2BV-15011***
2"	9.0	4.5	3.1	4.8	N/A	***BV2BV-20011***
3"	11.8	6.1	5.4	6.9	N/A	***BV2BV-30011***

T

A wide variety of options are available: modulating, extra switches, transmitters, potentiometer, etc.
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Pneumatically Actuated Brass Ball Valves

Features:

2-Piece Brass Ball Valve

- brass ball
- FKM elastomers
- blow-out proof brass stem
- PTFE seats with double O-ring stem packing
- ISO 5211 mounting pad
- pressure rating: **600 PSI** WOG - **150 PSI** WSP
- maximum temperature: **300°F**

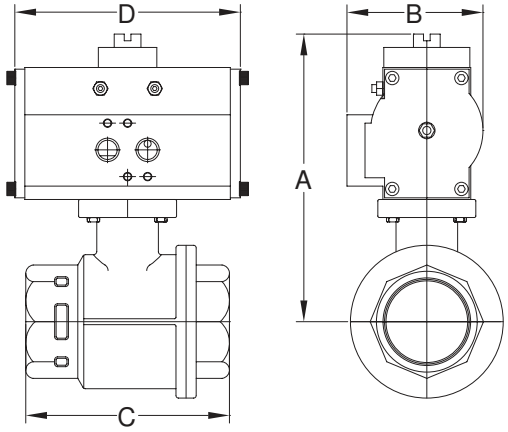
Rack and Pinion Actuator

- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for ±5º travel adjustment
- **80 PSI** plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40ºF** to **200ºF**
- tested to one million cycles

Spring Return (normally closed)

All dimensions are given in inches, unless noted. Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

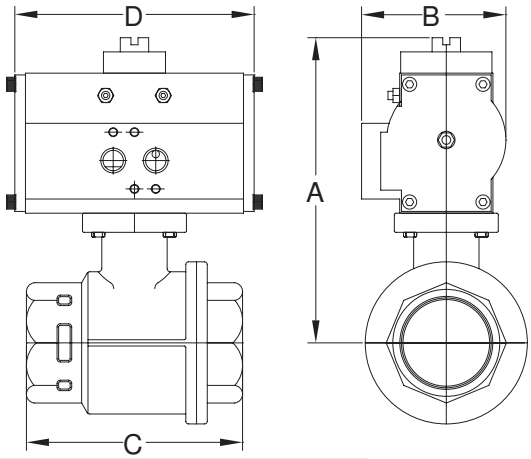
Size	A	B	C	D	*Brass* Part #
¼"	4.80	2.80	2.64	5.49	***BV2BV-02511-BBC***
⅜"	4.80	2.80	2.64	5.49	***BV2BV-03811-BBC***
½"	4.80	2.80	2.64	5.49	***BV2BV-05011-BBC***
¾"	4.88	2.80	3.00	5.49	***BV2BV-07511-BBC***
1"	5.31	2.80	3.35	5.49	***BV2BV-10011-BBC***
1¼"	5.45	2.80	3.66	5.49	***BV2BV-12511-BBC***
1½"	6.04	2.80	4.13	5.49	***BV2BV-15011-BBC***
2"	6.40	2.80	4.80	5.49	***BV2BV-20011-BBC***
2½"	8.13	3.74	6.10	8.09	***BV2BV-25011-BBC***
3"	8.50	3.74	6.89	8.09	***BV2BV-30011-BBC***
4"	10.14	4.69	8.03	9.84	***BV2BV-40011-BBC***



Double Acting

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	*Brass* Part #
¼"	3.84	1.77	2.64	4.33	***BV2BV-02511-BCC***
⅜"	3.84	1.77	2.64	4.33	***BV2BV-03811-BCC***
½"	3.84	1.77	2.64	4.33	***BV2BV-05011-BCC***
¾"	3.92	1.77	3.00	4.33	***BV2BV-07511-BCC***
1"	4.35	1.77	3.35	4.33	***BV2BV-10011-BCC***
1¼"	4.49	1.77	3.66	4.33	***BV2BV-12511-BCC***
1½"	6.42	3.20	4.13	5.68	***BV2BV-15011-BCC***
2"	6.78	3.20	4.80	5.68	***BV2BV-20011-BCC***
2½"	8.13	3.74	6.10	5.87	***BV2BV-25011-BCC***
3"	8.50	3.74	6.89	5.87	***BV2BV-30011-BCC***
4"	10.14	4.69	8.03	7.20	***BV2BV-40011-BCC***



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T

Electrically Actuated 3-Way Stainless Ball Valves - 'T / L' Port

See page 177 for flow path options.

Customer verification is critical. If flow path needs to be changed after being shipped, labor and shipping charges will apply.

For spring return actuators: must note fail position.

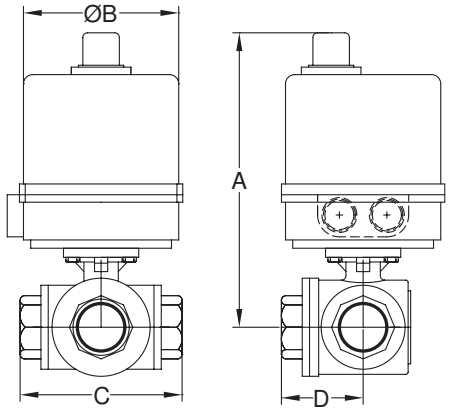
Features:

3-Way Stainless Ball Valve

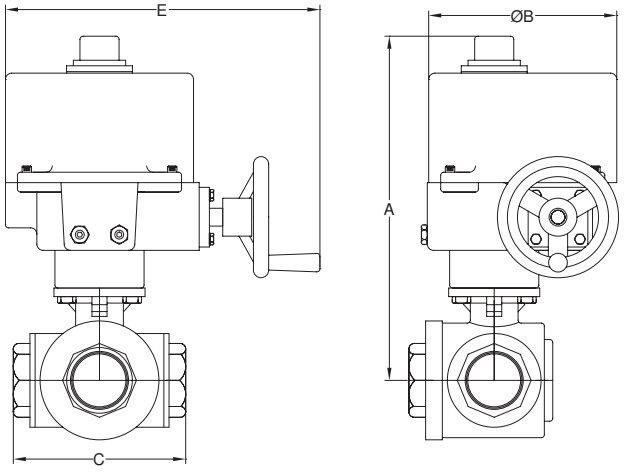
- full port
- female NPT ends
- blow-out proof stem
- live-loaded stem packing
- ISO 5211 mounting pad
- 100% air tested under water at **80 PSI**
- working pressure: ¼" to 1": **1000 PSI**; 1¼" to 2": **800 PSI**
- temperature range: **-20°F** to **300°F**

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F** to **140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant



¼" - 1¼"



1½" - 2"

Dimensions are approximate. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

* ***T*** = t style
* ***L*** = l style

Size	A	B	C	D	E	Override	*316 Stainless Steel* Part #
¼"	9.01	6.06	2.83	1.41	N/A	standard	***BV3IG*F-0251***
⅜"	9.01	6.06	2.83	1.41	N/A	standard	***BV3IG*F-0381***
½"	9.21	6.06	3.26	1.63	N/A	standard	***BV3IG*F-0501***
¾"	9.21	6.06	3.89	1.94	N/A	standard	***BV3IG*F-0751***
1"	9.74	6.06	4.40	2.20	N/A	standard	***BV3IG*F-1001***
1¼"	10.04	6.06	4.92	2.46	N/A	standard	***BV3IG*F-1251***
1½"	12.92	7.87	5.86	2.93	12.99	handwheel	***BV3IG*F-1501***
2"	13.67	7.87	6.85	3.42	12.99	handwheel	***BV3IG*F-2001***

T

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Pneumatically Actuated 3-Way Stainless Ball Valves - 'T / L' Port

Features:

3-Way Stainless Ball Valve

- full port
- female NPT ends
- RTFE Seats
- blow-out proof stem
- live-loaded stem packing
- ISO 5211 mounting pad
- 100% air tested under water at **80 PSI**
- working pressure: ¼" to 1": **1000 PSI**; 1¼" to 2": **800 PSI**
- temperature range: **-20°F** to **300°F**

Rack and Pinion Actuator

- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for ±5° travel adjustment
- **80 PSI** plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40ºF** to **200ºF**
- tested to one million cycles

See page 177 for flow path options.

Customer verification is critical. If flow path needs to be changed after being shipped, labor and shipping charges will apply.

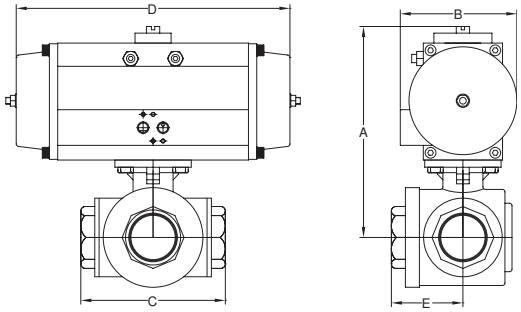
For spring return actuators: must note fail position.

Spring Return (normally closed)

All dimensions are given in inches, unless noted. Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

* ***T*** = t-style
* ***L*** = l-style

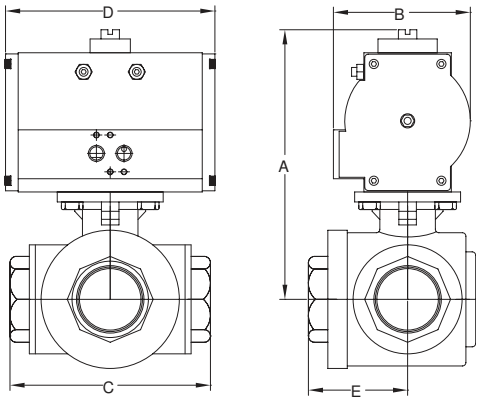
Size	A	B	C	D	E	*316 Stainless Steel* Part #
¼"	5.35	3.20	2.83	7.10	1.41	***BV3IG*F-0251BBC***
⅜"	5.35	3.20	2.83	7.10	1.41	***BV3IG*F-0381BBC***
½"	5.55	3.20	3.26	7.10	1.63	***BV3IG*F-0501BBC***
¾"	6.30	3.74	3.89	7.45	1.94	***BV3IG*F-0751BBC***
1"	6.83	3.74	4.40	7.45	2.20	***BV3IG*F-1001BBC***
1¼"	7.13	3.74	4.92	7.45	2.46	***BV3IG*F-1251BBC***
1½"	8.43	4.69	5.86	9.10	2.93	***BV3IG*F-1501BBC***
2"	9.97	5.53	6.85	12.99	3.42	***BV3IG*F-2001BBC***



Double Acting

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	E	*316 Stainless Steel* Part #
¼"	5.35	3.20	2.83	7.10	1.41	***BV3IG*F-0251BCC***
⅜"	5.35	3.20	2.83	7.10	1.41	***BV3IG*F-0381BCC***
½"	5.55	3.20	3.26	7.10	1.63	***BV3IG*F-0501BCC***
¾"	6.30	3.74	3.89	7.45	1.94	***BV3IG*F-0751BCC***
1"	6.83	3.74	4.40	7.45	2.20	***BV3IG*F-1001BCC***
1¼"	7.13	3.74	4.92	7.45	2.46	***BV3IG*F-1251BCC***
1½"	8.43	4.69	5.86	9.10	2.93	***BV3IG*F-1501BCC***
2"	9.97	5.53	6.85	12.99	3.42	***BV3IG*F-2001BCC***



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T

Electrically Actuated 3-Way Brass Ball Valves - 'T / L' Port

See page 177 for flow path options.

Customer verification is critical. If flow path needs to be changed after being shipped, labor and shipping charges will apply.

For spring return actuators: must note fail position.

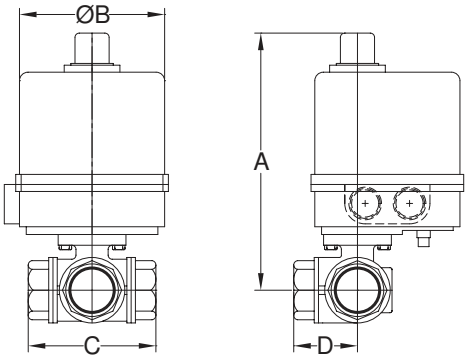
Features:

3-Way Brass Ball Valve

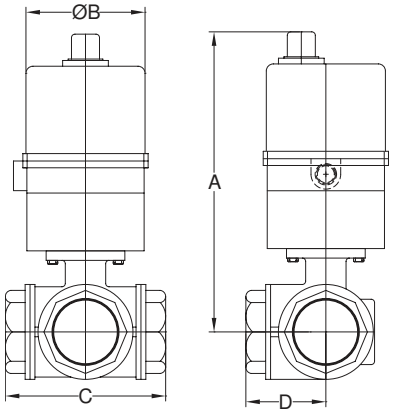
- reduced port
- blow-out proof stem
- chrome-plated brass ball
- PTFE seats with O-ring backing for low operating torque
- ISO 5211 mounting pad
- 100% tested
- pressure rating: **400 PSI** WOG **100 PSI** WSP
- maximum temperature: **300ºF**

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F** to **140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant



¼" - 1¼"



1½" - 3"

Dimensions are approximate. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

* ***T*** = t-style
* ***L*** = l-style

Size	A	B	C	D	Override	*Brass* Part #
¼"	8.76	6.06	2.64	1.32	standard	***BV3BV*R-0251***
⅜"	8.76	6.06	2.64	1.32	standard	***BV3BV*R-0381***
½"	8.76	6.06	2.87	1.44	standard	***BV3BV*R-0501***
¾"	8.85	6.06	3.19	1.60	standard	***BV3BV*R-0751***
1"	9.19	6.06	3.74	1.87	standard	***BV3BV*R-1001***
1¼"	9.41	6.06	4.39	2.20	standard	***BV3BV*R-1251***
1½"	9.90	6.06	4.86	2.43	N/A	***BV3BV*R-1501***
2"	10.89	4.25	5.73	2.87	N/A	***BV3BV*R-2001***
2½"	11.34	4.25	6.93	3.47	N/A	***BV3BV*R-2501***
3"	11.34	4.25	7.08	3.54	N/A	***BV3BV*R-3001***

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T

Pneumatically Actuated 3-Way Brass Ball Valves - 'T / L' Port

Features:

3-Way Brass Ball Valve

- reduced port
- blow-out proof stem
- chrome-plated brass ball
- PTFE seats with O-ring backing for low operating torque
- ISO 5211 mounting pad
- 100% tested
- pressure rating: **400 PSI** WOG **100 PSI** WSP
- maximum temperature: **300ºF**

Rack and Pinion Actuator

- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for ±5º travel adjustment
- 80 PSI plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40ºF** to **200ºF**
- tested to one million cycles

See page 177 for flow path options.

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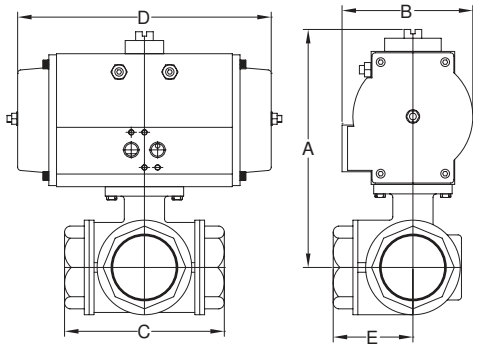
For spring return actuators: must note fail position.

Spring Return (normally closed)

All dimensions are given in inches, unless noted. Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

* ***T*** = t-style
* ***L*** = l-style

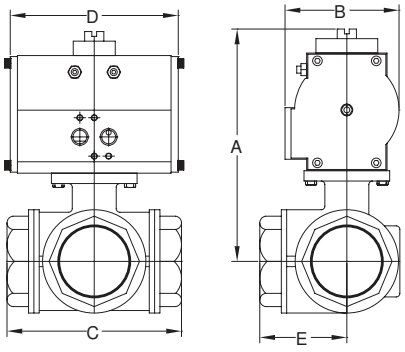
Size	A	B	C	D	E	*Brass* Part #
¼"	4.72	2.80	2.64	5.49	1.32	***BV3BV*R-0251BBC***
⅜"	4.72	2.80	2.64	5.49	1.32	***BV3BV*R-0381BBC***
½"	4.72	2.80	2.87	5.49	1.44	***BV3BV*R-0501BBC***
¾"	4.81	2.80	3.19	5.49	1.60	***BV3BV*R-0751BBC***
1"	6.28	3.74	3.74	7.45	1.87	***BV3BV*R-1001BBC***
1¼"	6.50	3.74	4.39	7.45	2.20	***BV3BV*R-1251BBC***
1½"	6.99	3.74	4.86	7.45	2.43	***BV3BV*R-1501BBC***
2"	8.45	4.69	5.73	9.10	2.87	***BV3BV*R-2001BBC***
2½"	8.90	4.69	6.93	9.10	3.47	***BV3BV*R-2501BBC***
3"	8.90	4.69	7.08	9.10	3.54	***BV3BV*R-3001BBC***



Double Acting

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	E	*Brass* Part #
¼"	3.76	1.77	2.64	4.33	1.32	***BV3BV*R-0251BCC***
⅜"	3.76	1.77	2.64	4.33	1.32	***BV3BV*R-0381BCC***
½"	3.76	1.77	2.87	4.33	1.44	***BV3BV*R-0501BCC***
¾"	3.85	1.77	3.19	4.33	1.60	***BV3BV*R-0751BCC***
1"	5.53	3.20	3.74	5.32	1.87	***BV3BV*R-1001BCC***
1¼"	5.75	3.20	4.39	5.32	2.20	***BV3BV*R-1251BCC***
1½"	6.24	3.20	4.86	5.32	2.43	***BV3BV*R-1501BCC***
2"	7.55	3.74	5.73	5.51	2.87	***BV3BV*R-2001BCC***
2½"	8.00	3.74	6.93	5.51	3.47	***BV3BV*R-2501BCC***
3"	8.00	3.74	7.08	5.51	3.54	***BV3BV*R-3001BCC***



A wide variety of switches, solenoids, positioners, etc., are available.
Contact Dixon Sanitary at 800.789.1718 or visit dixonvalve.com for details.

Caution !

Even though there are torque safety factors built into our automated ball valve packages, actual service conditions must also be considered when selecting the proper product for the appropriate application.

For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult Dixon when dealing with these types of applications.

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Ball Valve Automation Examples

Features:
- 2-way ball valve
- stainless steel, encapsulated, full port, PTFE
- clamp x clamp, manual handle
- NEMA 4 SPDT limit switch with 2 mechanical switches

Features:
- 2-way ball valve
- stainless steel, encapsulated, full port, PTFE
- butt-weld x butt-weld, rack and pinion, aluminum actuator, spring return, normally closed
- NEMA 7 120VAC Namur mount solenoid, NEMA 7 SPDT limit switch with 2 mechanical switches

Features:
- 2-way ball valve
- stainless steel, encapsulated, full port, PTFE
- clamp x clamp, rack and pinion, aluminum actuator, spring return, normally closed
- NEMA 4 SPDT limit switch with 2 mechanical switches

Features:
- 3-way ball valve
- T pattern, brass industrial, FNPT, PTFE, reduced port
- NEMA 4/4x 120VAC electric actuator

Features:
- 3-way ball valve
- L pattern, stainless steel, full port, PTFE
- clamp ends, rack and pinion, aluminum actuator, double acting
- NEMA 4 24VDC Namur mount solenoid, NEMA 4 SPDT limit switch with 2 mechanical switches

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Dixon Sanitary Butterfly Valves

Product Specifications

Size range:
- ½" - 8" OD tube

Sanitary Valve Materials:
- 316 stainless steel

Seat Materials:
- Silicone
- EPDM
- FKM

Finish:
- 32R_a sanitary finish ID and OD

Butterfly Valve Selection

Index

5101 series 202-206
5102 series 207-208
Butterfly Valve Automation 209
Butterfly Valve Seat 210
Automation 211
B51 series 212-213

U

B5101 Series **Butterfly Valves**

Product Specifications

Features:

- 100% hydraulic tested / 100% inspected
- all wetted surfaces are sanitary finished to < $32R_a$
- field serviceable (no special tools required)
- seat materials available include: silicone, EPDM, FKM, (6" EPDM and silicone, 8" EPDM only)
- vacuum rating: 0.4 inches Hg at 68°F
- operating temperature range: **15°F** to **200°F**

Information supplied based on water media @ 68°F

Size	Break Torque (in. lbs.) silicone	Break Torque (in. lbs.) EPDM	Break Torque (in. lbs.) FKM	Pressure Rating (PSI)	Flow Coefficient (CV)	Weight w/standard handle (lbs.)
½"	20	75	70	140	7	2.2
¾"	20	75	70	140	11	2.2
1"	20	75	70	140	23	2.2
1½"	40	130	125	140	80	2.9
2"	55	165	175	140	230	3.5
2½"	70	210	220	110	264	3.7
3"	165	350	310	110	372	4.4
4"	350	540	450	85	800	9.0
6"	700	1550	n/a	60	1200	18.5
8"	n/a	1650	n/a	60	2800	13.6

Note: Handle is not assembled when shipped.
Please request with handle assembled on the valve when placing your order.

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B5101 Series Butterfly Valve with Pull Handle

Clamp End

Part Numbers

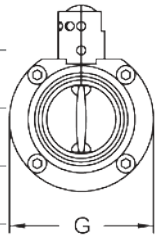
Size	*316 stainless steel with Silicone seats*	*316 stainless steel with EPDM seats*	*316 stainless steel with FKM seats*
½"	***B5101S050CC-A***	***B5101E050CC-A***	***B5101V050CC-A***
¾"	***B5101S075CC-A***	***B5101E075CC-A***	***B5101V075CC-A***
1"	***B5101S100CC-A***	***B5101E100CC-A***	***B5101V100CC-A***
1½"	***B5101S150CC-A***	***B5101E150CC-A***	***B5101V150CC-A***
2"	***B5101S200CC-A***	***B5101E200CC-A***	***B5101V200CC-A***
2½"	***B5101S250CC-A***	***B5101E250CC-A***	***B5101V250CC-A***
3"	***B5101S300CC-A***	***B5101E300CC-A***	***B5101V300CC-A***
4" [1]	***B5101S400CC-A***	***B5101E400CC-A***	***B5101V400CC-A***
6"	***B5101S600CC-A***	***B5101E600CC-A***	---
8"	---	***B5101E800CC-A***	---

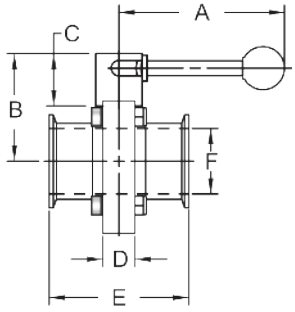
[1] high pressure 4" butterfly is available, call Dixon Sanitary for more information

Note: Handle is not assembled when shipped. Please request with handle assembled on the valve when placing your order.

Dimensions

Size	A	B	C	D	E	F	G
½"	4.4	2.8	1.4	0.9	3.5	.37	3.1
¾"	4.4	2.8	1.4	0.9	3.5	.62	3.1
1"	4.4	2.8	1.4	0.9	3.5	0.9	3.1
1½"	4.4	2.8	1.4	0.9	3.5	1.4	3.1
2"	4.4	3.1	1.4	0.9	3.8	1.9	3.9
2½"	4.4	3.5	1.4	0.9	3.8	2.4	4.6
3"	6.2	3.8	1.3	1.2	4.1	2.9	5.2
4"	6.2	4.5	1.3	1.2	4.8	3.8	6.7
6"	11.5	5.5	1.3	1.2	5.5	5.8	8.5
8"	18.0	6.9	1.6	1.2	4.9	7.8	11.2





B5101 Series Butterfly Valve with Pull Handle

Weld End

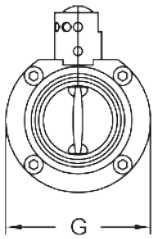
Part Numbers

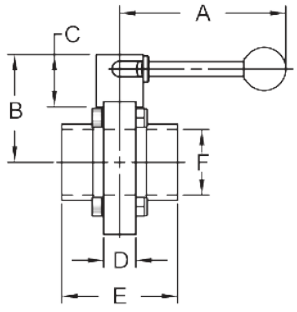
Size	*316 stainless steel with Silicone seats*	*316 stainless steel with EPDM seats*	*316 stainless steel with FKM seats*
½"	***B5101S050BB-A***	***B5101E050BB-A***	***B5101V050BB-A***
¾"	***B5101S075BB-A***	***B5101E075BB-A***	***B5101V075BB-A***
1"	***B5101S100BB-A***	***B5101E100BB-A***	***B5101V100BB-A***
1½"	***B5101S150BB-A***	***B5101E150BB-A***	***B5101V150BB-A***
2"	***B5101S200BB-A***	***B5101E200BB-A***	***B5101V200BB-A***
2½"	***B5101S250BB-A***	***B5101E250BB-A***	***B5101V250BB-A***
3"	***B5101S300BB-A***	***B5101E300BB-A***	***B5101V300BB-A***
4"	***B5101S400BB-A***	***B5101E400BB-A***	***B5101V400BB-A***
6"	***B5101S600BB-A***	***B5101E600BB-A***	---
8"	---	***B5101E800BB-A***	---

Note: Handle is not assembled when shipped. Please request with handle assembled on the valve when placing your order.

Dimensions

Size	A	B	C	D	E	F	G
½"	4.3	2.6	1.3	0.9	1.9	.37	3.1
¾"	4.3	2.6	1.3	0.9	1.9	.62	3.1
1"	4.4	2.8	1.4	0.9	1.9	0.9	3.1
1½"	4.4	2.8	1.4	0.9	1.9	1.4	3.1
2"	4.4	3.1	1.4	0.9	2.0	1.9	3.9
2½"	4.4	3.5	1.4	0.9	2.1	2.4	4.6
3"	6.2	3.8	1.3	1.2	2.5	2.9	5.2
4"	6.2	4.5	1.3	1.2	3.1	3.8	6.7
6"	11.5	5.5	1.3	1.2	5.5	5.8	8.5
8"	18.0	6.9	1.6	1.2	4.9	7.8	11.2





All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

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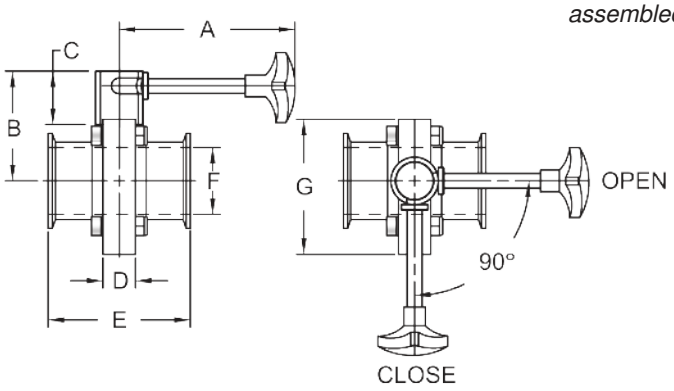
B5101 Series Butterfly Valve with Infinite Handle

Clamp End

Part Numbers

Size	*316 stainless steel with Silicone seats*	*316 stainless steel with EPDM seats*	*316 stainless steel with FKM seats*
½"	***B5101S050CC-B***	***B5101E050CC-B***	***B5101V050CC-B***
¾"	***B5101S075CC-B***	***B5101E075CC-B***	***B5101V075CC-B***
1"	***B5101S100CC-B***	***B5101E100CC-B***	***B5101V100CC-B***
1½"	***B5101S150CC-B***	***B5101E150CC-B***	***B5101V150CC-B***
2"	***B5101S200CC-B***	***B5101E200CC-B***	***B5101V200CC-B***
2½"	***B5101S250CC-B***	***B5101E250CC-B***	***B5101V250CC-B***
3"	***B5101S300CC-B***	***B5101E300CC-B***	***B5101V300CC-B***
4"	***B5101S400CC-B***	***B5101E400CC-B***	***B5101V400CC-B***

Note: Handle is not assembled when shipped. Please request with handle assembled on the valve when placing your order.



Dimensions

Size	A	B	C	D	E	F	G
½"	4.3	2.6	1.3	0.9	3.5	0.37	3.1
¾"	4.3	2.6	1.3	0.9	3.5	0.62	3.1
1"	4.3	2.6	1.3	0.9	3.5	0.9	3.1
1½"	4.3	2.6	1.3	0.9	3.5	1.4	3.1
2"	4.3	2.9	1.3	0.9	3.8	1.9	3.1
2½"	4.3	3.3	1.3	0.9	3.8	2.4	4.6
3"	6.4	3.6	1.3	1.2	4.1	2.9	5.2
4"	6.4	4.4	1.3	1.2	4.8	3.8	6.7

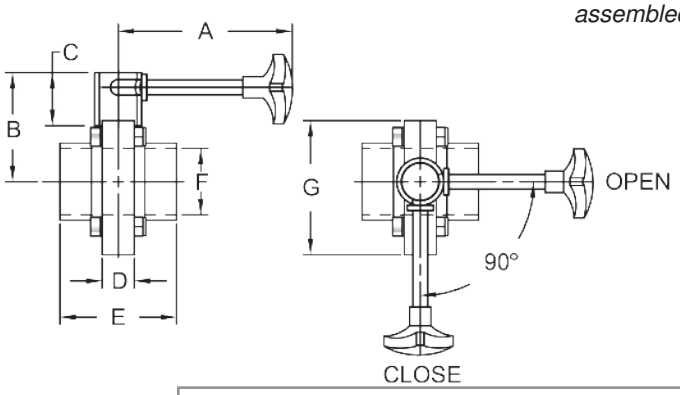
B5101 Series Butterfly Valve with Infinite Handle

Weld End

Part Numbers

Size	*316 stainless steel with Silicone seats*	*316 stainless steel with EPDM seats*	*316 stainless steel with FKM seats*
½"	***B5101S050BB-B***	***B5101E050BB-B***	***B5101V050BB-B***
¾"	***B5101S075BB-B***	***B5101E075BB-B***	***B5101V075BB-B***
1"	***B5101S100BB-B***	***B5101E100BB-B***	***B5101V100BB-B***
1½"	***B5101S150BB-B***	***B5101E150BB-B***	***B5101V150BB-B***
2"	***B5101S200BB-B***	***B5101E200BB-B***	***B5101V200BB-B***
2½"	***B5101S250BB-B***	***B5101E250BB-B***	***B5101V250BB-B***
3"	***B5101S300BB-B***	***B5101E300BB-B***	***B5101V300BB-B***
4"	***B5101S400BB-B***	***B5101E400BB-B***	***B5101V400BB-B***

Note: Handle is not assembled when shipped. Please request with handle assembled on the valve when placing your order.



Dimensions

Size	A	B	C	D	E	F	G
½"	4.3	2.6	1.3	0.9	1.9	0.37	3.1
¾"	4.3	2.6	1.3	0.9	1.9	0.62	3.1
1"	4.3	2.6	1.3	0.9	1.9	0.9	3.1
1½"	4.3	2.6	1.3	0.9	1.9	1.4	3.1
2"	4.3	2.9	1.3	0.9	2.0	1.9	3.1
2½"	4.3	3.3	1.3	0.9	2.1	2.4	4.6
3"	6.4	3.6	1.3	1.2	2.5	2.9	5.2
4"	6.4	4.4	1.3	1.2	3.1	3.8	6.7

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

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B5101 Series Butterfly Valve with Trigger Handle

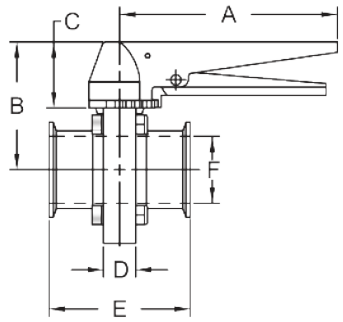
Clamp End

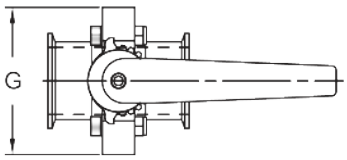
Feature:
- lockout / tagout handle

Part Numbers

Size	*316 stainless steel with Silicone seats*	*316 stainless steel with EPDM seats*	*316 stainless steel with FKM seats*
½"	***B5101S050CC-C***	***B5101E050CC-C***	***B5101V050CC-C***
¾"	***B5101S075CC-C***	***B5101E075CC-C***	***B5101V075CC-C***
1"	***B5101S100CC-C***	***B5101E100CC-C***	***B5101V100CC-C***
1½"	***B5101S150CC-C***	***B5101E150CC-C***	***B5101V150CC-C***
2"	***B5101S200CC-C***	***B5101E200CC-C***	***B5101V200CC-C***
2½"	***B5101S250CC-C***	***B5101E250CC-C***	***B5101V250CC-C***
3"	***B5101S300CC-C***	***B5101E300CC-C***	***B5101V300CC-C***
4"	***B5101S400CC-C***	***B5101E400CC-C***	***B5101V400CC-C***

Note: Handle is not assembled when shipped. Please request with handle assembled on the valve when placing your order.





Dimensions

Size	A	B	C	D	E	F	G
½"	6.6	3.0	1.7	0.9	3.5	0.37	3.1
¾"	6.6	3.0	1.7	0.9	3.5	0.62	3.1
1"	6.6	3.0	1.7	0.9	3.5	0.9	3.1
1½"	6.6	3.0	1.7	0.9	3.5	1.4	3.1
2"	6.6	3.5	1.7	0.9	3.8	1.9	3.1
2½"	6.6	3.7	1.7	0.9	3.8	2.4	4.6
3"	6.6	3.9	1.7	1.2	4.1	2.9	5.2
4"	6.6	4.8	1.7	1.2	4.8	3.8	6.7

B5101 Series Butterfly Valve with Trigger Handle

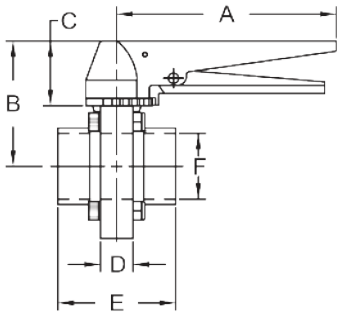
Weld End

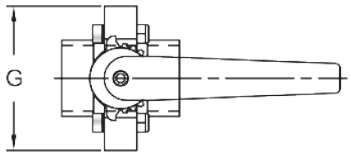
Feature:
- lockout / tagout handle

Part Numbers

Size	*316 stainless steel with Silicone seats*	*316 stainless steel with EPDM seats*	*316 stainless steel with FKM seats*
½"	***B5101S050BB-C***	***B5101E050BB-C***	***B5101V050BB-C***
¾"	***B5101S075BB-C***	***B5101E075BB-C***	***B5101V075BB-C***
1"	***B5101S100BB-C***	***B5101E100BB-C***	***B5101V100BB-C***
1½"	***B5101S150BB-C***	***B5101E150BB-C***	***B5101V150BB-C***
2"	***B5101S200BB-C***	***B5101E200BB-C***	***B5101V200BB-C***
2½"	***B5101S250BB-C***	***B5101E250BB-C***	***B5101V250BB-C***
3"	***B5101S300BB-C***	***B5101E300BB-C***	***B5101V300BB-C***
4"	***B5101S400BB-C***	***B5101E400BB-C***	***B5101V400BB-C***

Note: Handle is not assembled when shipped. Please request with handle assembled on the valve when placing your order.





Dimensions

Size	A	B	C	D	E	F	G
½"	6.6	3.0	1.7	0.9	1.9	0.37	3.1
¾"	6.6	3.0	1.7	0.9	1.9	0.62	3.1
1"	6.6	3.0	1.7	0.9	1.9	0.9	3.1
1½"	6.6	3.0	1.7	0.9	1.9	1.4	3.1
2"	6.6	3.5	1.7	0.9	2.0	1.9	3.9
2½"	6.6	3.7	1.7	0.9	2.1	2.4	4.6
3"	6.6	3.9	1.7	1.2	2.5	2.9	5.2
4"	6.6	4.8	1.7	1.2	3.1	2.9	6.7

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

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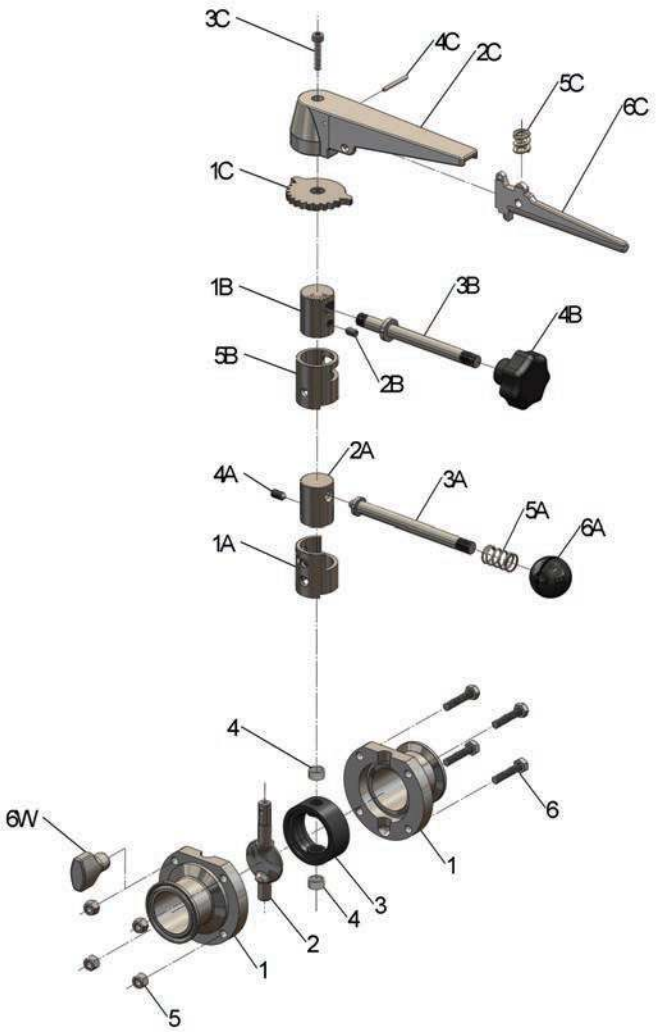
B5101 Series Butterfly Valves

Bill of Materials



Item	Description	Material	Quantity
	Trigger Handle		
1C	sprocket	CF8	1
2C	handle	CF8	1
3C	hex socket bolt	304	1
4C	pin	304	1
5C	spring	304	1
6C	trigger	CF8	1
	Infinite Handle		
1B	hub	CF8	1
2B	hex socket screw	304	1
3B	handle shaft	304	1
4B	knob	polymer	1
5B	hub housing	CF8	1
	Pull Handle		
1A	hub housing	CF8	1
2A	hub	CF8	1
3A	handle shaft	304	1
4A	hex socket screw	304	1
5A	spring	304	1
6A	knob	polymer	1
	Valve		
1	body half	316	2
2	disc	316	1
3	seat	silicone EPDM FKM	1
4	bushing	polyacetal	2
5	hex nut	304	4 *
6	bolt	304	4 *
6W	optional wing nut	304	4 *

* 4" and 8" valves have 6 bolts and nuts
  6" valve has 8 bolts and nuts

Repair Kits

Size	*Red Silicone*	*Black EPDM*	*Brown FKM*
½"-1"	***B5101-RKS100***	***B5101-RKE100***	***B5101-RKV100***
1½"	***B5101-RKS150***	***B5101-RKE150***	***B5101-RKV150***
2"	***B5101-RKS200***	***B5101-RKE200***	***B5101-RKV200***
2½"	***B5101-RKS250***	***B5101-RKE250***	***B5101-RKV250***
3"	***B5101-RKS300***	***B5101-RKE300***	***B5101-RKV300***
4"	***B5101-RKS400***	***B5101-RKE400***	***B5101-RKV400***
6"	***B5101-RKS600***	***B5101-RKE600***	***---***
8"	***---***	***B5101-RKE800***	***---***

Repair Kit contains:
(1) seat
(2) bushings

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B5102 Series Butterfly Valves

Product Specifications

Information supplied based on water media @ 68°F

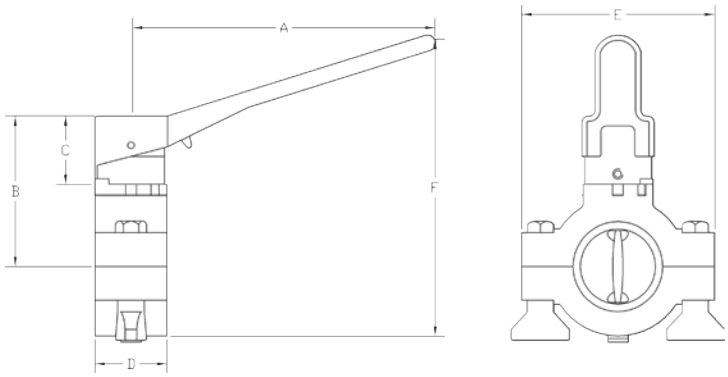
Size	Break Torque (in-lbs.)	Assembly Torque (in-lbs.)	Pressure Rating (PSI)	Flow Coefficient (C_V)	Weight w/ standard handle (lbs.)
1"	125	36	140	23	1.5
1½"	185	36	140	80	2
2"	200	21.6	120	230	2.5
2½"	260	21.6	120	264	3
3"	350	28.8	100	372	4
4"	495	43.2	70	800	6

Features:

- all wetted surfaces are sanitary finish 316L stainless steel
- all sizes use only ¾" of line space
- the grooved clamp housing connects directly to the corresponding sanitary clamp size
- PTFE valve disc bushings reduce friction and increase cycle life
- 3-position reversible handle
- 100% tested / 100% inspected
- field serviceable (no special tools required)
- seat materials available include: silicone, EPDM, FKM
- can be modified for lockout / tagout
- various automatic operations available
- vacuum rating: 0.4 inches Hg @ 68°F
- operating temperature range: **15°F** to **200°F**

Part Numbers

Size	*316L stainless steel with Silicone seats*	*316L stainless steel with EPDM seats*	*316L stainless steel with FKM seats*
1"	***B5102S100-A***	***B5102E100-A***	***B5102V100-A***
1½"	***B5102S150-A***	***B5102E150-A***	***B5102V150-A***
2"	***B5102S200-A***	***B5102E200-A***	***B5102V200-A***
2½"	***B5102S250-A***	***B5102E250-A***	***B5102V250-A***
3"	***B5102S300-A***	***B5102E300-A***	***B5102V300-A***
4"	***B5102S400-A***	***B5102E400-A***	***B5102V400-A***



Dimensions

Size	A	B	C	D	E	F
1"	5.6	2.8	1.3	1.3	3.6	5.6
1½"	5.6	2.8	1.3	1.3	3.6	5.6
2"	5.6	3.0	1.3	1.3	4.1	6.1
2½"	5.6	3.3	1.3	1.3	4.6	6.6
3"	5.6	3.6	1.3	1.3	5.3	7.1
4"	5.6	4.1	1.3	1.3	6.4	8.2

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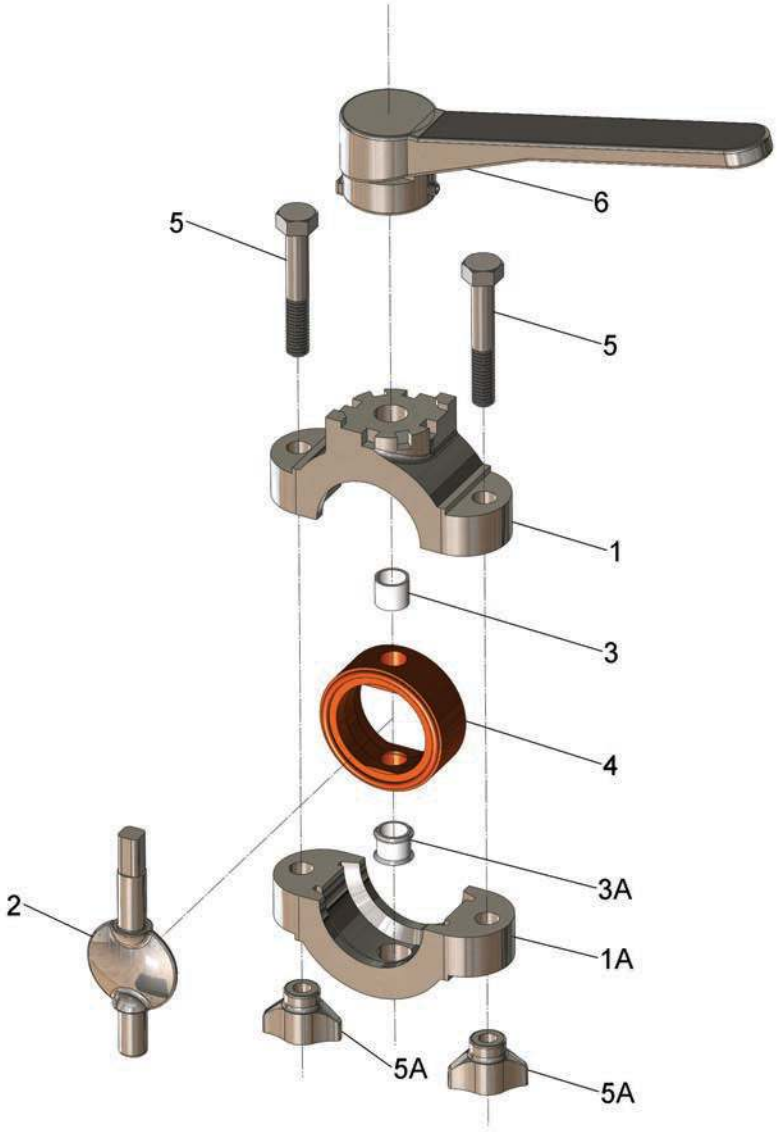
All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

B5102 Series Butterfly Valves

Bill of Materials



Item #	Description	Material	Quantity
1	upper body half	CF8, stainless	1
1A	lower body half	CF8, stainless	1
2	disc	316L stainless	1
3	upper bushing	PTFE	1
3A	lower bushing	PTFE	1
4	seat	silicone, EPDM, FKM	1
5	bolts	304 stainless	2
5A	wing nuts	304 stainless	2
6	handle	CF8, Stainless	1

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Repair Kits

Repair kit contains:
(1) seat
(2) bushings

Size	*Red Silicone*	*Black EPDM*	*Brown FKM*
1"	***B5102-RKS100***	***B5102-RKE100***	***B5102-RKV100***
1½"	***B5102-RKS150***	***B5102-RKE150***	***B5102-RKV150***
2"	***B5102-RKS200***	***B5102-RKE200***	***B5102-RKV200***
2½"	***B5102-RKS250***	***B5102-RKE250***	***B5102-RKV250***
3"	***B5102-RKS300***	***B5102-RKE300***	***B5102-RKV300***
4"	***B5102-RKS400***	***B5102-RKE400***	***B5102-RKV400***

Butterfly Valve Automation

Butterfly Valve with Stainless Steel Vertical Spring Return Actuation

- Silicone and FKM elastomers also available
- other end configurations are available
- Each pneumatically actuated butterfly valve is shipped fully assembled, including pneumatic actuator and mounting bracket assembly.

Butterfly Valve with EPDM seats and a vertical spring return normally *closed* pneumatic canister style actuator

Valve Size	Valve Style	
	B5101	B5102
½"	***B5101E050CC-G***	***n/a***
¾"	***B5101E075CC-G***	***n/a***
1"	***B5101E100CC-G***	***B5102E100-G***
1½"	***B5101E150CC-G***	***B5102E150-G***
2"	***B5101E200CC-G***	***B5102E200-G***
2½"	***B5101E250CC-G***	***B5102E250-G***
3"	***B5101E300CC-G***	***B5102E300-G***
4"	***B5101E400CC-G***	***B5102E400-G***

Butterfly Valve with EPDM seats and a vertical spring return normally *open* pneumatic canister style actuator

Valve Size	Valve Style	
	B5101	B5102
½"	***B5101E050CC-F***	***n/a***
¾"	***B5101E075CC-F***	***n/a***
1"	***B5101E100CC-F***	***B5102E100-F***
1½"	***B5101E150CC-F***	***B5102E150-F***
2"	***B5101E200CC-F***	***B5102E200-F***
2½"	***B5101E250CC-F***	***B5102E250-F***
3"	***B5101E300CC-F***	***B5102E300-F***
4"	***B5101E400CC-F***	***B5102E400-F***

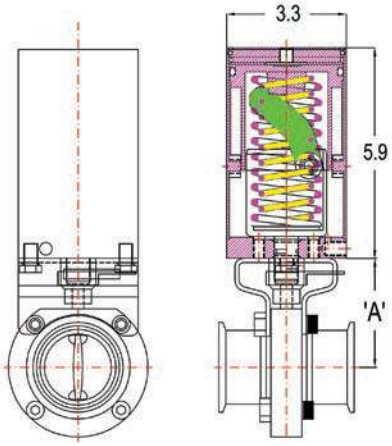
Butterfly Valve with EPDM seats and a vertical double acting pneumatic canister style actuator

Valve Size	Valve Style	
	B5101	B5102
½"	***B5101E050CC-H***	***n/a***
¾"	***B5101E075CC-H***	***n/a***
1"	***B5101E100CC-H***	***B5102E100-H***
1½"	***B5101E150CC-H***	***B5102E150-H***
2"	***B5101E200CC-H***	***B5102E200-H***
2½"	***B5101E250CC-H***	***B5102E250-H***
3"	***B5101E300CC-H***	***B5102E300-H***
4"	***B5101E400CC-H***	***B5102E400-H***

Dimensions

Dimension 'A'

Valve Size	Valve Style	
	B5101	B5102
½" - 1"	2.7	2.5
1½"	2.7	2.5
2"	3.1	2.9
2½"	3.5	3.2
3"	3.7	3.4
4"	4.5	4.0



All dimensions are in inches, unless noted. Dimensions are approximate.
Engineering dimensions are available upon request. Specifications are subject to change without notice.

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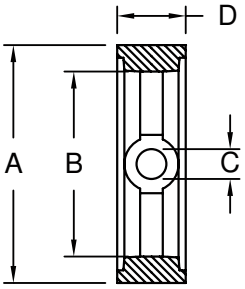
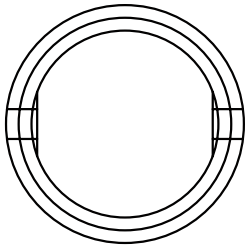
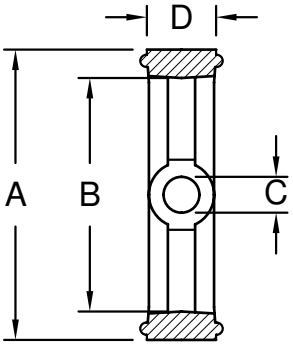
Butterfly Valve Seat
Dimensions

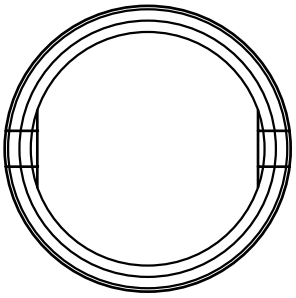




B5101 Seat Dimensions

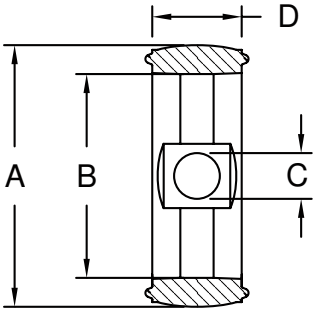
Size	A	B	C	D
½" - 1"	1.42	0.83	0.37	0.77
1 1/2"	1.93	1.34	0.37	0.77
2"	2.56	1.73	0.37	0.78
2 1/2"	3.03	2.35	0.46	0.91
3"	3.66	2.80	0.55	1.10
4"	4.96	3.86	0.62	1.43
6"	6.83	5.79	0.62	1.70
8"	9.32	7.89	0.67	1.59

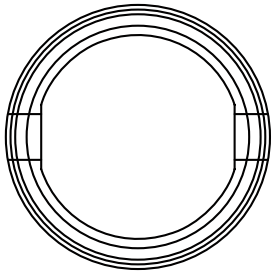




B5102 Seat Dimensions

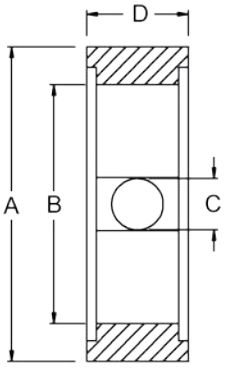
Size	A	B	C	D
1"	1.87	0.86	0.37	0.66
1 1/2"	1.87	1.32	0.37	0.66
2"	2.42	1.89	0.37	0.66
2 1/2"	2.94	2.30	0.37	0.66
3"	3.44	2.83	0.43	0.66
4"	4.52	3.81	0.43	0.66

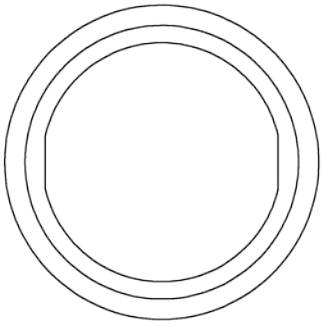




B5104 Seat Dimensions

Size	A	B	C	D
1"	1.41	0.83	0.43	0.83
1 1/2"	2.21	1.36	0.43	0.85
2"	2.48	1.93	0.43	0.85
2 1/2"	3.04	2.34	0.43	0.85
3"	3.50	2.84	0.43	0.85
4"	4.61	3.84	0.43	0.85





B5115 Seat Dimensions

Size	A	B	C	D
1"	1.476	0.866	0.374	0.846
1 1/2"	2.047	1.417	0.354	0.736
2"	2.637	2.007	0.433	0.854
2 1/2"	3.070	2.382	0.433	0.933
3"	3.543	2.834	0.433	0.906
4"	4.763	3.976	0.496	1.102

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Butterfly Valve Automation Examples

Features:
- B5101 butterfly valve, clamp x clamp, stainless steel vertical canister, spring return, normally closed
- (1) 10-30VDC proximity sensor

Features:
- B5101 butterfly valve, clamp x clamp, stainless steel vertical canister, double acting

Features:
- B5102 butterfly valve, stainless steel horizontal actuator, double acting
- NEMA 4/4X 3-15PSI pneumatic positioner

Features:
- B5101 butterfly valve, clamp x clamp, stainless steel rack and pinion actuator, spring return
- NEMA 4/4X 3-15PSI pneumatic positioner

Features:
- B5101 butterfly valve, clamp x clamp
- standard 4-position handle with a NEMA 4 SPDT limit switch with 2 mechanical switches

U

B51 Series **Industrial Butterfly Valves**

Product Specifications

Lug Butterfly Valve

Wafer Butterfly Valve

Features:

- wafer and lug type body
- cast iron body with extended neck
- nickel plated ductile iron disc
- seat backing ring ensures blowout proof service
- installs between Standard ANSI Class 150# flanges
- conforms to MSS SP-67 MSS SP-25, API-609
- no taper pins
- field repairable (seat kits available)
- undercut available
- EPDM seat
- maximum pressure **200 PSI** (bi-directional)
- temperature range: **-20°F** to **250°F** (depending upon seat material)
- wide variety of seat, disc and body materials available
- additional sizes available
- various manual or automatic operators available

Valve Seating Torque (in. lbs.)

Size	Standard Disc at Pressure Differential (ΔP)			
	50 ΔP	100 ΔP	150 ΔP	200 ΔP
1½"	80	95	100	105
2"	99	105	110	116
2½"	146	160	172	186
3"	198	206	230	240
4"	250	300	340	380
5"	420	470	520	580
6"	600	690	782	873
8"	960	1100	1280	1410
10"	1590	1790	2000	2180
12"	2390	2600	3011	2313

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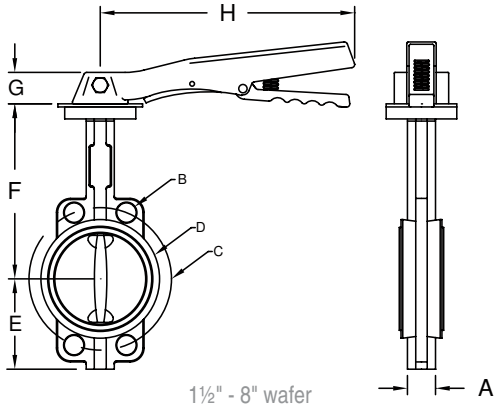
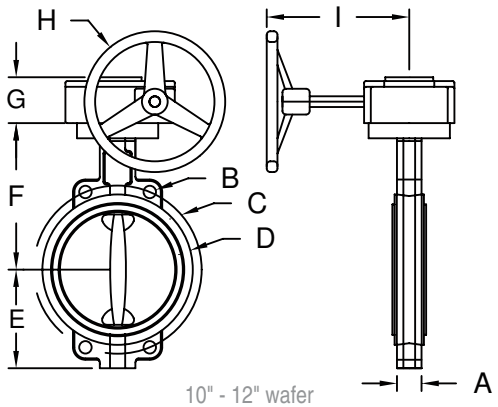
B51 Series Industrial Butterfly Valves

Dimensions (wafer)



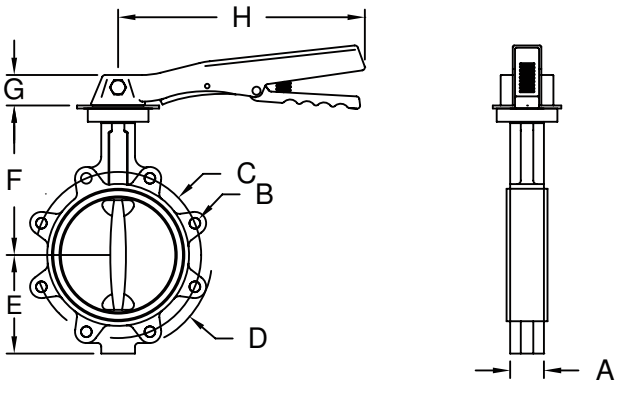
1½" - 8" wafer



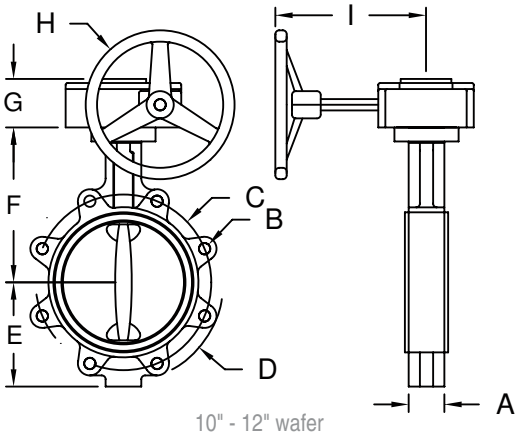
10" - 12" wafer

Part Number	Size	A	B	C	D	E	F	G	H	I
B5121E150WW-C	1½"	1.30	4-18	3.88	3.74	2.56	5.75	0.88	8.00	n/a
B5121E200WW-C	2"	1.69	4-18	4.75	3.82	3.15	5.94	0.88	8.00	n/a
B5121E250WW-C	2½"	1.81	4-18	5.50	4.45	3.62	6.89	0.88	8.00	n/a
B5121E300WW-C	3"	1.81	4-18	6.00	4.92	3.74	7.13	0.88	8.00	n/a
B5121E400WW-C	4"	2.50	4-22	7.50	6.14	4.49	7.87	1.00	10.60	n/a
B5121E500WW-C	5"	2.20	4-22	8.50	7.36	5.00	8.39	1.00	10.60	n/a
B5121E600WW-C	6"	2.20	4-22	9.50	8.46	5.47	8.90	1.00	10.60	n/a
B5121E800WW-C	8"	2.36	4-22	11.75	10.51	6.59	10.24	1.25	12.60	n/a
B5121E1000WW-G	10"	2.68	4-26	14.25	13.00	8.00	11.50	3.21	9.84	8.86
B5121E1200WW-G	12"	3.07	4-26	17.00	14.96	9.53	13.27	3.21	11.80	8.86

Dimensions (lug)



2" - 8" wafer



10" - 12" wafer

Part Number	Size	A	B	C	D	E	F	G	H	I
B5121E200LL-C	2"	1.69	4-5/18-11 UNC	4.75	5.95	3.15	5.94	0.88	8.00	n/a
B5121E250LL-C	2½"	1.81	4-5/18-11 UNC	5.50	6.97	3.62	6.89	0.88	8.00	n/a
B5121E300LL-C	3"	1.81	4-5/18-11 UNC	6.00	7.56	3.74	7.13	0.88	8.00	n/a
B5121E400LL-C	4"	2.05	8-5/8-11 UNC	7.50	8.35	4.49	7.87	1.00	10.60	n/a
B5121E500LL-C	5"	2.20	8-5/8-11 UNC	8.50	9.53	5.00	8.39	1.00	10.60	n/a
B5121E600LL-C	6"	2.20	8-5/8-11 UNC	9.50	11.02	5.47	8.90	1.00	10.60	n/a
B5121E800LL-C	8"	2.36	8-5/8-11 UNC	11.75	13.19	6.89	10.24	1.25	12.60	n/a
B5121E1000LL-G	10"	2.68	12-7/8-9 UNC	14.25	15.94	8.00	11.50	3.21	9.84	8.86
B5121E1200LL-G	12"	3.07	12-7/8-9 UNC	17.00	19.09	9.53	13.27	3.21	11.80	8.86

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

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Dixon Sanitary Check Valves

Check Valve Selection

Product Specifications

Size range:
- ½" - 4" OD tube

Materials:
- G = 304 stainless steel
- R = 316L stainless steel

Finish:
- 3A sanitary finish ID and OD

Index

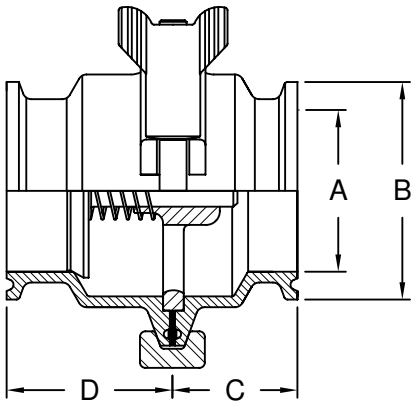
Spring Check Valves 215-216
Y-Ball Check Valves.....217-218
Air Blow Check Valves.....219-220
Air Relief Valves 221-222
Tank Vent Valve 223-224
Stainless Steel Tank Vent Valve 225-226

V

Spring Check Valves

3A 58-00
1447

Product Specifications



Features:

- 3A Standards 58-00, Check Valves and Vacuum Breakers
- full size flow plate
- long stem bushing for increased cycle life
- suitable for low and medium viscosity fluids
- field serviceable (no special tools required)
- various end connections available
- sizes from ½" thru 4"
- operating temperature range: **15°F** to **200°F**
- maximum operating pressure: **145 PSI**

Size	A	B	C	D	*316L Stainless Steel* Part Number	*316L Stainless Steel - all FKM* Part Number
½"	0.37	0.99	1.10	1.60	***B45MP-R50***	***B45MP-R50V***
¾"	0.62	0.99	1.10	1.60	***B45MP-R75***	***B45MP-R75V***
1"	0.87	1.99	1.37	1.92	***B46MP-R100***	***B46MP-R100V***
1½"	1.37	1.99	1.44	1.92	***B46MP-R150***	***B46MP-R150V***
2"	1.87	2.52	1.44	1.92	***B46MP-R200***	***B46MP-R200V***
2½"	2.37	3.05	1.44	1.92	***B46MP-R250***	***B46MP-R250V***
3"	2.87	3.58	1.44	1.92	***B46MP-R300***	***B46MP-R300V***
4"	3.84	4.69	1.88	2.15	***B46MP-R400***	***B46MP-R400V***

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

repair kits

Size	Part Number
½"	***B45MP-RK050***
¾"	***B45MP-RK075***
1"	***B46MP-RK100***
1½"	***B46MP-RK150***
2"	***B46MP-RK200***
2½"	***B46MP-RK250***
3"	***B46MP-RK300***
4"	***B46MP-RK400***

Size	FKM Part Number
½"	***B45MP-RKV050***
¾"	***B45MP-RKV075***
1"	***B46MP-RKV100***
1½"	***B46MP-RKV150***
2"	***B46MP-RKV200***
2½"	***B46MP-RKV250***
3"	***B46MP-RKV300***
4"	***B46MP-RKV400***

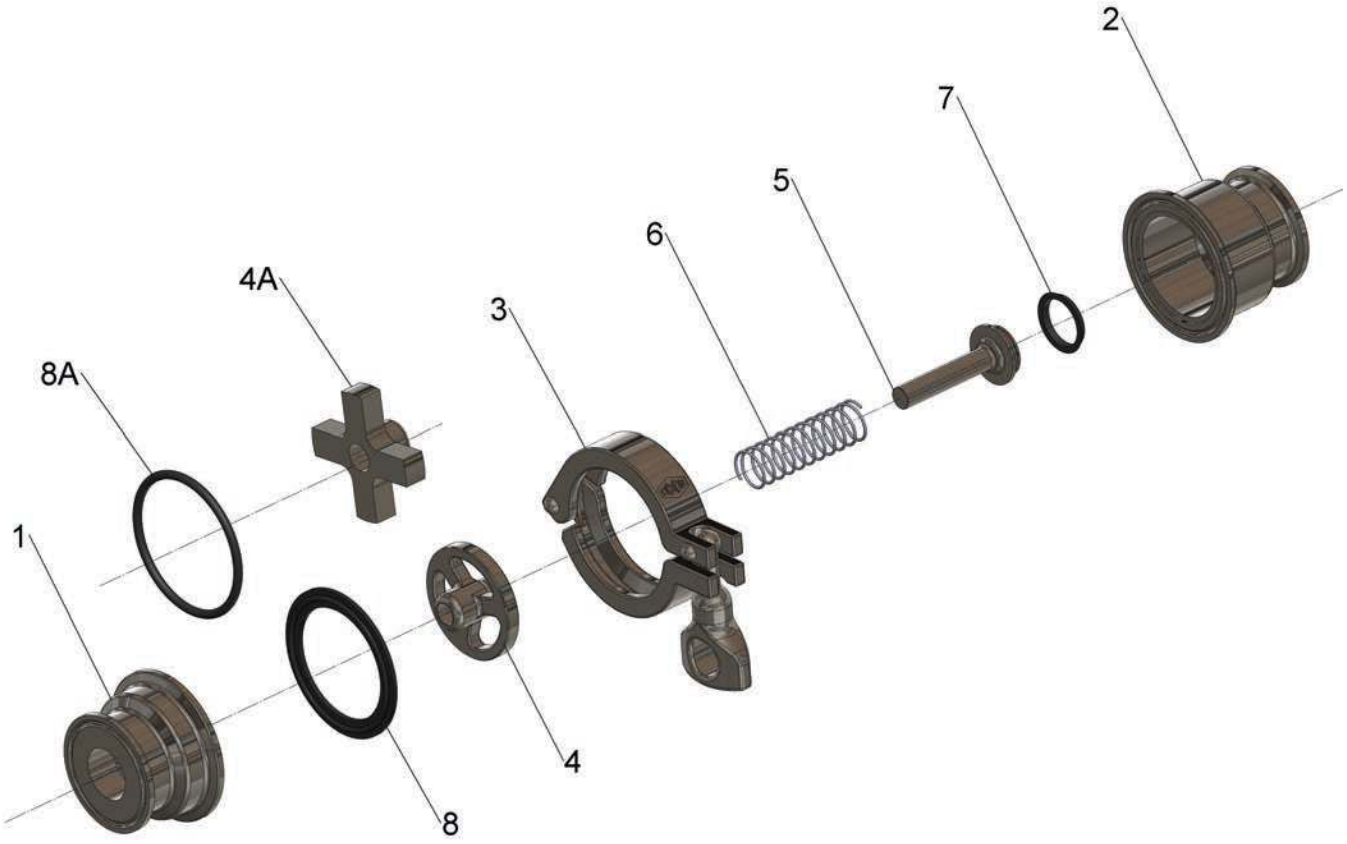
Repair kit contains:
½" - ¾"
(1) 316L stainless spring
(1) FKM stem seat
(1) EPDM body O-ring
1" - 4"
(1) 316L stainless spring
(1) FKM stem seat
(1) EPDM clamp gasket

FKM Repair kit contains:
½" - ¾"
(1) 316L stainless spring
(1) FKM stem seat
(1) FKM body O-ring
1" - 4"
(1) 316L stainless spring
(1) FKM stem seat
(1) FKM clamp gasket

V

Spring Check Valves

Bill of Materials

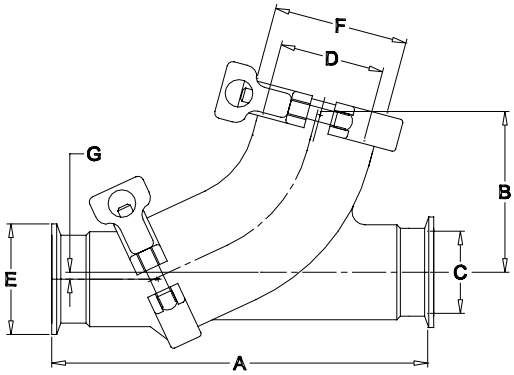


Item #	Description	Material	Quantity Required	
			½" - ¾"	1" - 4"
1	upper body housing	316L stainless	1	1
2	lower body housing	316L stainless	1	1
3	single pin clamp	CF8 stainless	1	1
4	flow plate	CF8M stainless	n/a	1
4A	flow plate	CF8M stainless	1	n/a
5	plunger	316L stainless	1	1
6	spring	316L stainless	1	1
7	stem seat	FKM	1	1
8	clamp gasket	EPDM	n/a	1
8A	body O-ring	EPDM	1	n/a

V

Y - Ball Check Valves

Product Specifications



When liquid flows through the valve, the ball is forced into the branch of the valve allowing full fluid flow. When the liquid stops, equalizing the pressure, the ball drops back into the seat, preventing backflow. Should reverse flow occur, the differential pressure will cause the ball to seal firmly against the seat preventing leakage.

Features:

- 3A Standards 58-00, Check Valves and Vacuum Breakers
- two-piece construction
- replace seat instead of entire valve
- PTFE ball
- field serviceable (no special tools required)
- all metal product contact surfaces are 316L stainless steel construction
- operating temperature range: **15°F** to **200°F**
- maximum operating pressure: **150 PSI**

Valve Size	Clamp & Cap Size	A	B	C	D	E	F	G	Ball Diameter	Weight (lbs)	*316L Stainless Steel* Part Number
1½"	2"	7.50	3.30	1.36	1.87	1.98	2.51	0.16	1.6	4.9	***B45BY-R150***
2"	2½"	8.50	3.90	1.86	2.33	2.51	3.04	0.16	2.1	6.6	***B45BY-R200***
2½"	3"	10.00	4.50	2.37	2.87	3.04	3.57	0.16	2.7	10.5	***B45BY-R250***
3"	4"	11.50	5.30	2.87	3.83	3.57	4.68	0.16	3.6	17.5	***B45BY-R300***

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Repair and Seal Kits

Repair kit contains:
(1) EPDM cap gasket
(1) PTFE ball
(1) EPDM/CF8M seat

Seal kit contains:
(1) EPDM cap gasket
(1) EPDM/CF8M seat

FKM Seal kit contains:
(1) FKM cap gasket
(1) FKM /CF8M seat

Size	*Repair Kit* Part Number	*Seal Kit* Part Number	*FKM Seal Kit* Part Number	*Replacement Ball Only* Part Number
1½"	***B45BY-RK150***	***B45BY-SK150***	***B45BY-SKV150***	***B45BY-TB150***
2"	***B45BY-RK200***	***B45BY-SK200***	***B45BY-SKV200***	***B45BY-TB200***
2½"	***B45BY-RK250***	***B45BY-SK250***	***B45BY-SKV250***	***B45BY-TB250***
3"	***B45BY-RK300***	***B45BY-SK300***	***B45BY-SKV300***	***B45BY-TB300***

Y-Ball Check Valves

Bill of Materials

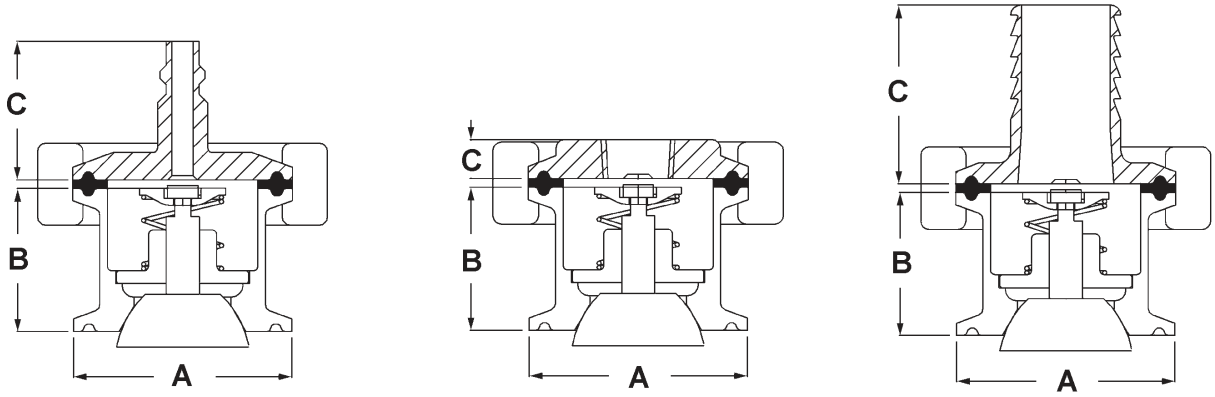
Item #	Description	Material	Quantity
1	angle body	316L stainless	1
2	inlet body	316L stainless	1
3	single pin clamp	CF8 stainless	2
4	clamp end cap	316L stainless	1
5	cap gasket	EPDM	1
6	ball	PTFE	1
7	seat	EPDM/CF-8M stainless	1

V

Air Blow Check Valves

3A 58-00
1447

Product Specifications



B45AB B45BC B45CC

Features:

- 3A Standards 58-00, check valves and vacuum breakers
- 316L stainless steel with EPDM stem seat and gasket
- maximum operating temperature: **212°F**
- maximum operating pressure: **145 PSI**

Size	A	B	*Quick-Connect Plug* Part Number	Dim. C	*Female NPT* Part Number	Dim. C	*Hose Barb* Part Number	Dim. C
1" - 1½"	1.984	1.30	***B45AB-R100150***	1.26	***B45BC-R100150***	0.6	***B45CC-R100150***	1.7
2"	2.516	1.30	***B45AB-R200***	1.26	***B45BC-R200***	0.6	***B45CC-R200***	1.7
2½"	3.047	1.30	***B45AB-R250***	1.26	***B45BC-R250***	0.6	***B45CC-R250***	1.7
3"	3.579	1.30	***B45AB-R300***	1.26	***B45BC-R300***	0.6	***B45CC-R300***	1.7
4"	4.682	1.30	***B45AB-R400***	1.26	***B45BC-R400***	0.6	***B45CC-R400***	1.7

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Repair Kit

Repair kit, ***B45AB-RK***, contains:

(1) EPDM / 316L stainless perforated disc
(1) 304 stainless spring retainer
(1) 304 stainless spring
(1) nylon stem guide
(1) 316L / EPDM stem and plug

Sizing Chart

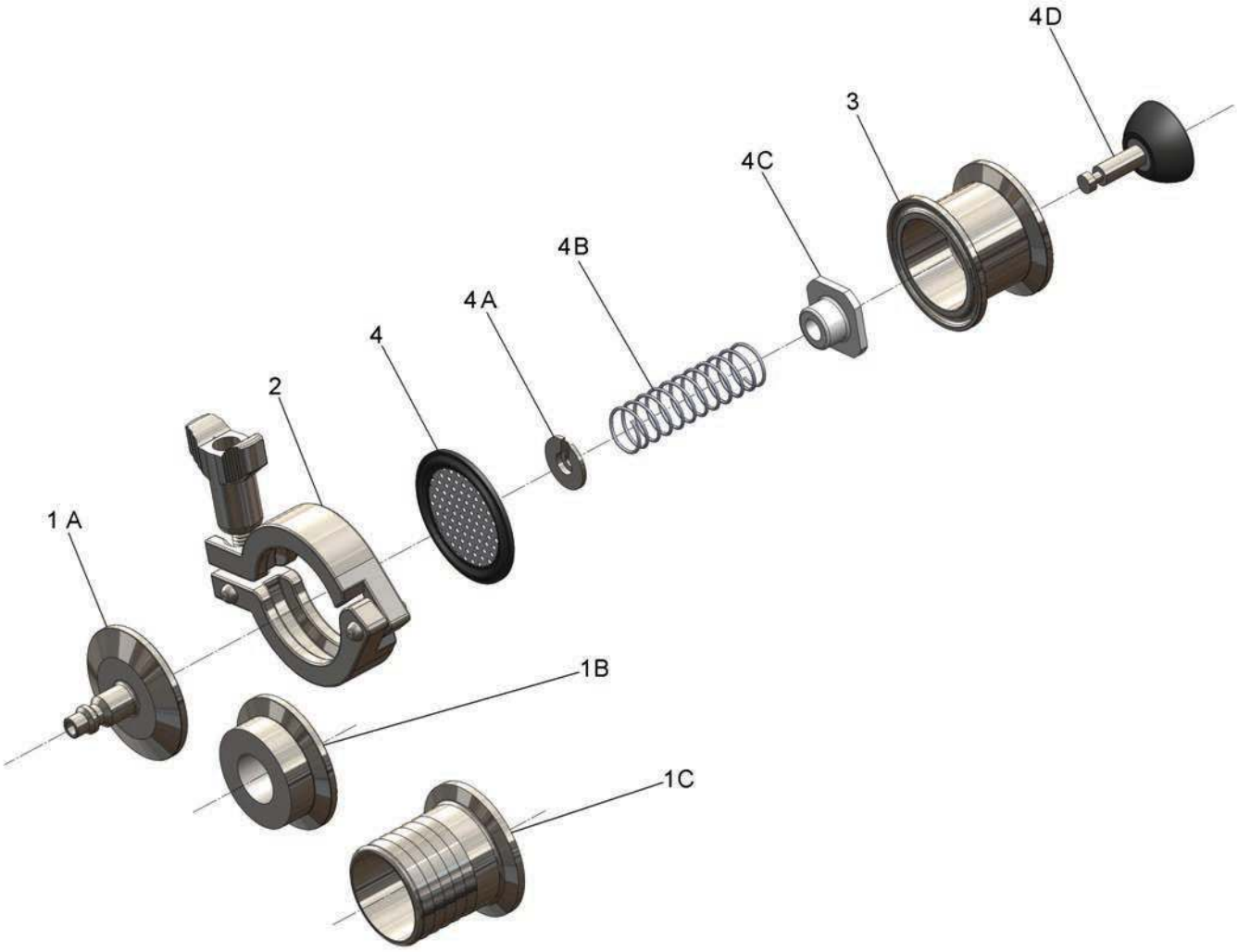
When using air blow check valves with ball check valves, refer to the sizing chart below.

Ball Check Valve size	Air Blow Check Valve size
1½"	2"
2"	2½"
2½"	3"
3"	4"

V

Air Blow Check Valves

Bill of Materials



Item	Description	Material	Quantity
1A	¼" air line quick connect	316L	1
1B	½" 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
Filter Discs (optional) *Must be used when installed in 3A applications*			
B45ABFD150	filter disc pack	1 micron filter	50

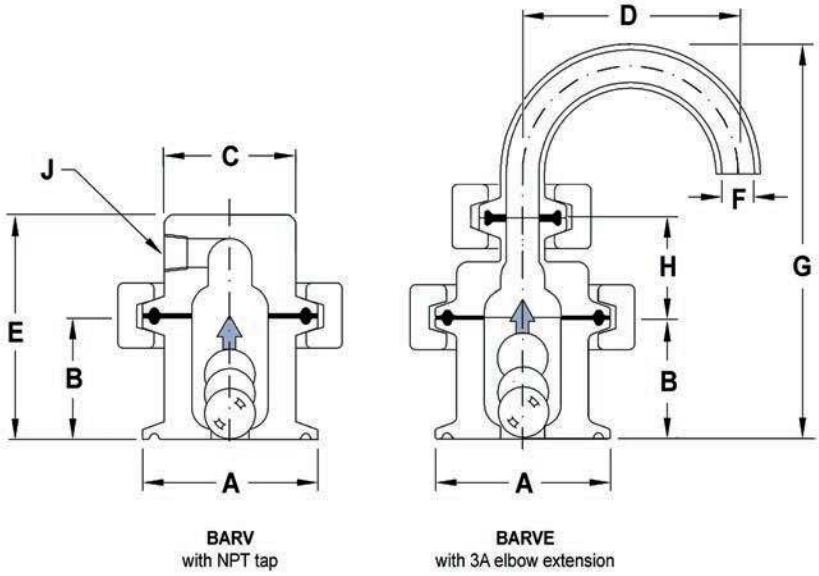
V

- filter discs (optional) must be used when installed for Accepted Practice 3A 604-05, Supplying Air under Pressure in Contact With Milk, Milk products and Product Contact.

Air Relief Valves

3A 58-00
1447

Product Specifications



BARV
with NPT tap

BARVE
with 3A elbow extension

Features:

- 3A Standards 58-00 with Elbow Extension, Check Valves and Vacuum Breakers
- no special tools required
- ball and gaskets are replaceable
- The valve seals for both pressure and vacuum.
- All product contact surfaces have a radius of ¼" or better.
- The valve ball is constructed of FDA, 3A approved polypropylene.
- PTFE valve ball is available
- other gasket materials available
- maximum operating temperature: **212°F**
- maximum PSI: **145**

Description	A	B	C	D	E	F	G	H	J	*304 Stainless Steel* Part Number
1½" air relief valve with tapped blind end	1.98	1.40	1.50	---	2.40	---	---	---	⅛" NPT	***BARV-G150***
2" air relief valve with tapped blind end	2.51	1.40	1.50	---	2.40	---	---	---	⅛" NPT	***BARV-G200***
1½" air relief valve with 180° elbow	1.98	1.40	---	1.50	---	0.37	4.50	1.10	---	***BARVE-G150*** 3A
2" air relief valve with 180° elbow	2.51	1.40	---	1.50	---	0.37	4.50	1.10	---	***BARVE-G200*** 3A

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

Working Principle

The Dixon Sanitary air relief valve allows air to be removed from a line or container without the liquid flowing out. Its design does not allow air to enter the line or container, even if subjected to a negative pressure. It is a double-seated valve with a freely moving polypropylene ball. The ball, which is lighter than water, closes against the upper or lower seat, depending on the pressure conditions.

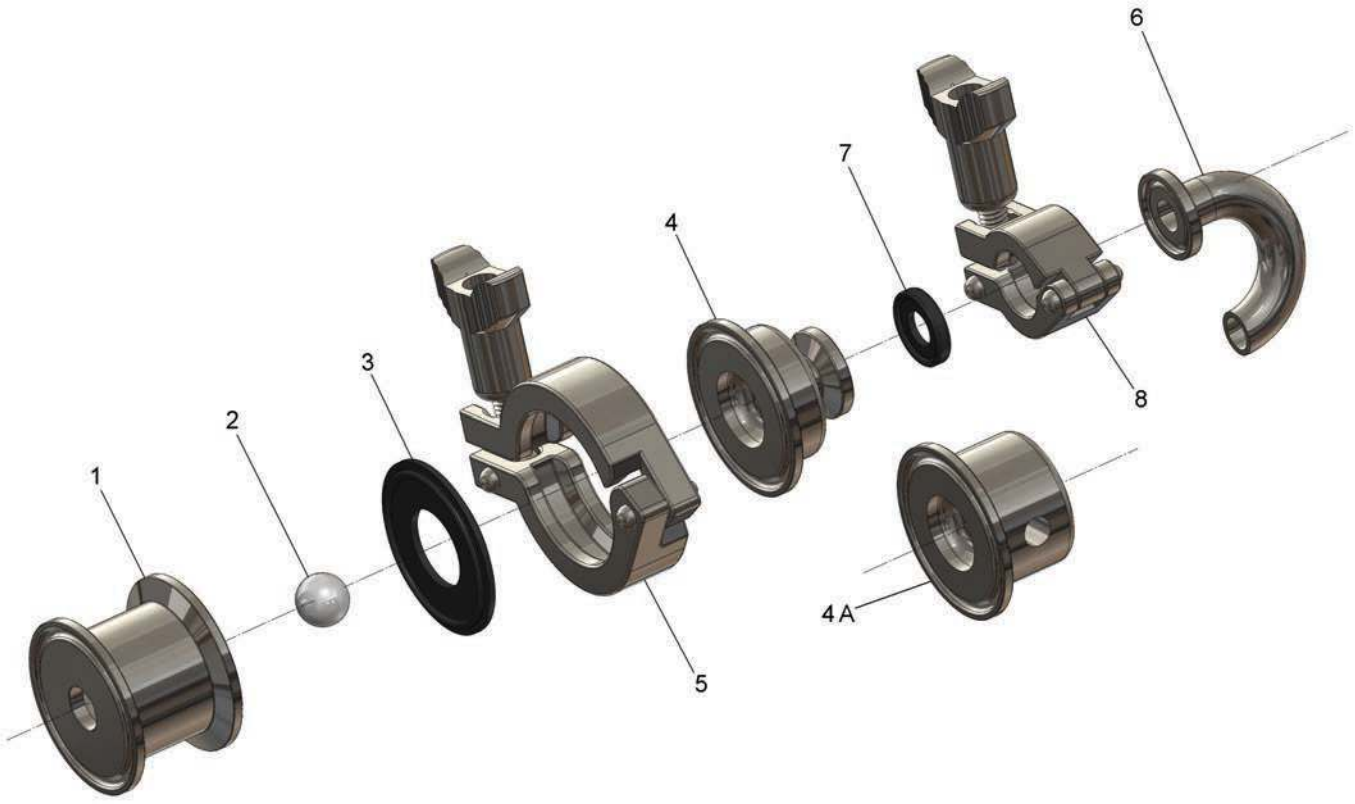
Applications

1. Bleeding of a line where an air pocket has formed. This application calls for installation at the top of the line.
2. Bleeding of a tube on the suction side of a pump. The suction side is bled automatically, before the pump starts, establishing a vacuum. Binding of air to liquid will be prevented, and so will subsequent cavitation. In this application the valve is mounted in front of the pump, on the top of the inlet tube.

V

Air Relief Valves

Bill of Materials



Item #	Description	Material	Quantity Required	
			elbow 3A	tapped
1	body	304 stainless	1	1
2	ball	polypropylene	1	1
3	gasket	EPDM	1	1
4	3A cover	304 stainless	1	n/a
4A	tapped cover	304 stainless	n/a	1
5	1½" clamp	CF8 stainless	1	1
6	180° tube ferrule	304 stainless	1	n/a
7	½" gasket	EPDM	1	n/a
8	½" clamp	CF8 stainless	1	n/a

Replacement Parts

Part Number	Description	Material	Quantity Required
BARVE3P-G150	ball	polypropylene	1
BARVE3T-G150	ball	PTFE	1

V

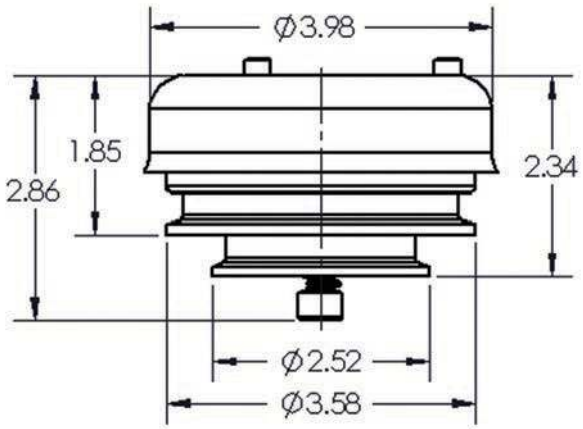
Air & Vacuum Relief Tank Vent Valve

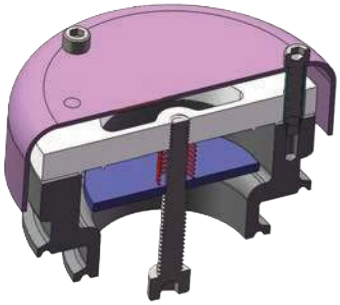
Features:

- The valve relieves pressure as the fluid level rises while filling a tank.
- The valve relieves vacuum as the fluid level drops while emptying a tank.
- 2" and 3" clamp connections on the same valve
- dome helps in preventing external contamination
- light weight, robust PVC and 304 stainless steel construction
- can use any clamp gasket
- maximum flow rate: 500 GPM
- vacuum break: .1 **PSI**
- pressure relief: .1 **PSI**

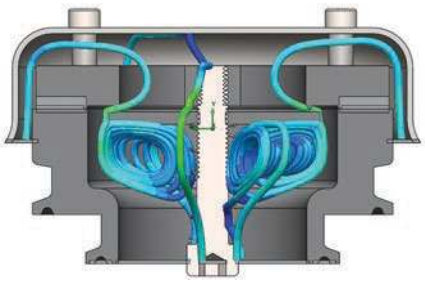
Part #
TVPC200-300

Dimensions

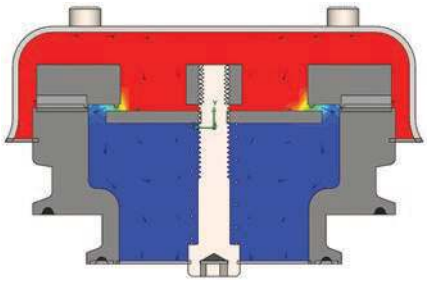




Assembly



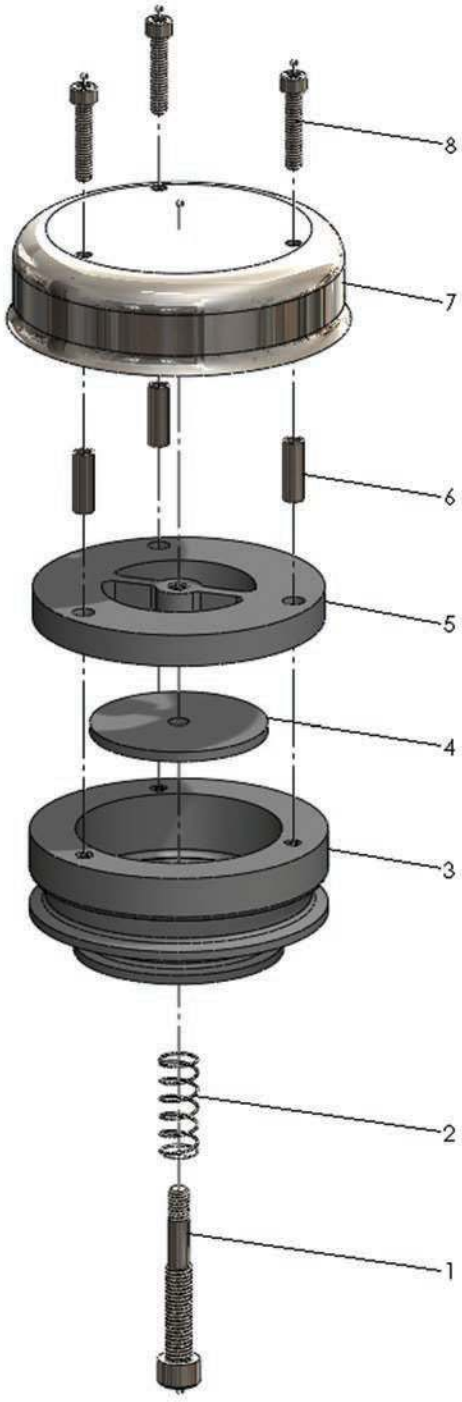
Vent Flow Pipes



Pressure Analysis

V

Tank Vent Valve - Exploded View



Item	Description	Material	Quantity
1	spring bolt	304 stainless steel	1
2	spring	304 stainless steel	1
3	body	PVC	1
4	check plate	PVC	1
5	flow plate	PVC	1
6	spacer	304 stainless steel	3
7	cap	304 stainless steel	1
8	cap bolt	304 stainless steel	3

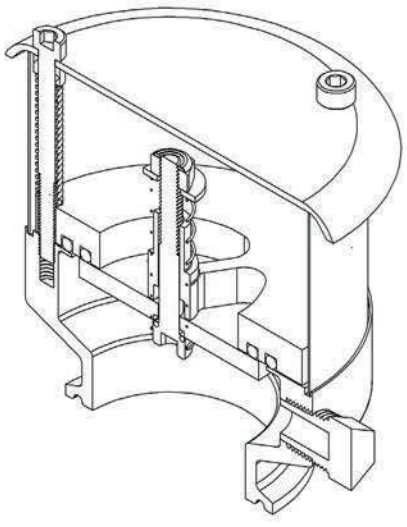
Stainless Steel Air & Vacuum Relief Tank Vent Valve

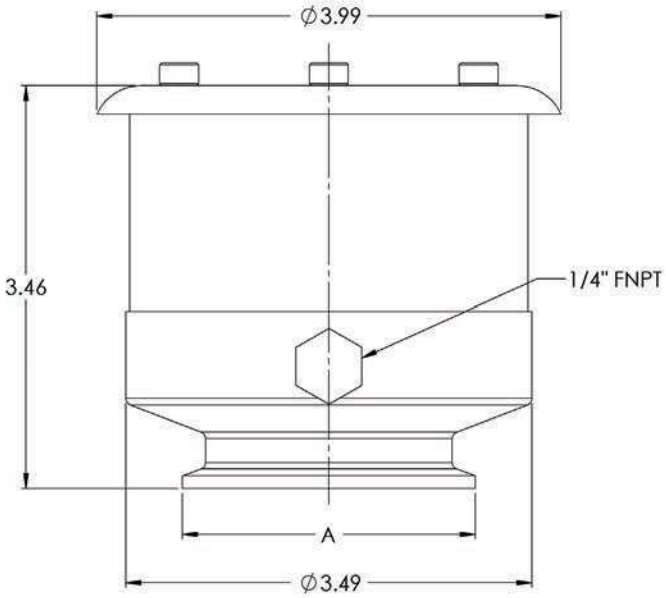
Applications:
- When product filling or evacuation in a tank, this valve is used to relieve pressure or vacuum.

Features:
- Triple Action
  - Valve relieves pressure as the fluid level rises while filling a tank.
  - Valve relieves vacuum as the fluid level drops while emptying a tank.
  - Seals under equal pressure.
- stainless steel screen surrounds the entire vacuum and pressure flow area
- sizes: 2", 3" or 4" – clamp connection standard
- other sanitary connections optional
- ¼" FNPT connection for gas inlet, plug also supplied
- vacuum break: 2" water column, 0.1 PSI
- pressure relief: 22" water column, 0.8 PSI
- maximum temperature and pressure rating: **3 PSI @ 70°F**
- maximum flow rate: 500 GPM

Materials:
- 304 stainless steel, EPDM elastomer

Part Number	Tube OD
TVSEC-G200	2"
TVSEC-G300	3"
TVSEC-G400	4"

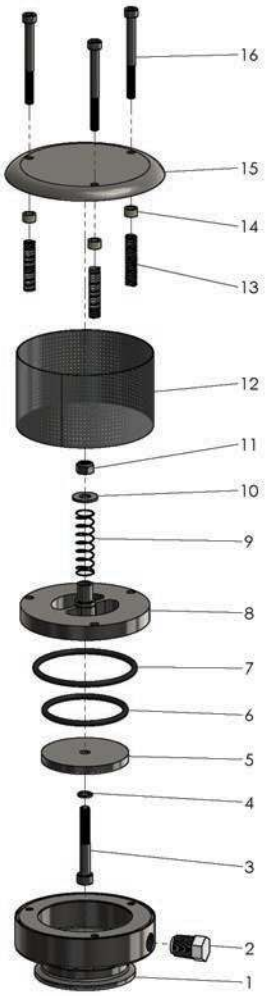




	DIM. "A"
2"	2.52
3"	3.58
4"	4.68

V

Air & Vacuum Relief Tank Vent Valve - Exploded View



Item	Description	Material	Quantity Required
1	body	304 stainless	1
2	plug	PVC	1
3	vacuum bolt	304 stainless	1
4	O-ring (vacuum bolt)	EPDM	1
5	vacuum disc	304 stainless	1
6	O-ring (vacuum disc)	EPDM	1
7	O-ring (pressure plate)	EPDM	1
8	pressure plate	304 stainless	1
9	vacuum spring	304 stainless	1
10	flat washer	304 stainless	1
11	nut	304 stainless	1
12	screen	304 stainless	1
13	pressure plate springs	304 stainless	3
14	spacers	304 stainless	3
15	cover	304 stainless	1
16	cover screws	304 stainless	3

Repair Kit: includes items # 4, 6 and 7

Dixon Sanitary Sample Valves

Product Specifications

Size range:
- ½" - 4" OD tube

Materials:
- G = 304 stainless steel
- R = 316L stainless steel
- N = 316L stainless steel

Finish:
- 3A sanitary finish ID and OD

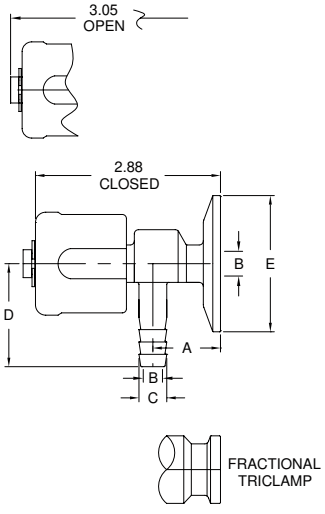
Sample Valve Selection

Angle Sample Valves - *BSVACV*

Features:
- all 316L stainless wetted part construction
- standard finish to 20 R_a ID / 32 R_a OD
- FKM O-ring
- fully traceable (material test reports)
- virgin PTFE seat for positive closure
- minimal internal dead-leg area
- sizes available: ½" thru 4"
- temperature rating: **300°F** at **200 PSI**

Right Angle Sample Valve Dimensions

Valve Size	A	B	BarbØ C	D	FerruleØ E	Part Number
½"	0.93	0.21	¼"	1.76	0.99	***BSVACV-N050025***
½"	0.92	0.28	3/8"	1.78	0.99	***BSVACV-N050375***
½"	0.85	0.37	1/2"	1.76	0.99	***BSVACV-N050050***
¾"	0.93	0.21	¼"	1.76	0.99	***BSVACV-N075025***
¾"	0.92	0.28	3/8"	1.78	0.99	***BSVACV-N075375***
¾"	0.85	0.37	1/2"	1.76	0.99	***BSVACV-N075050***
1"	0.96	0.21	¼"	2.04	1.98	***BSVACV-N100025***
1"	0.95	0.28	3/8"	2.03	1.98	***BSVACV-N100375***
1"	0.88	0.37	1/2"	2.03	1.98	***BSVACV-N100050***
1½"	0.96	0.21	¼"	2.04	1.98	***BSVACV-N150025***
1½"	0.95	0.28	3/8"	2.03	1.98	***BSVACV-N150375***
1½"	0.88	0.37	1/2"	2.03	1.98	***BSVACV-N150050***
2"	0.96	0.21	¼"	2.31	2.52	***BSVACV-N200025***
2"	0.95	0.28	3/8"	2.31	2.52	***BSVACV-N200375***
2"	0.88	0.37	1/2"	2.29	2.52	***BSVACV-N200050***
2½"	0.96	0.21	¼"	2.57	3.05	***BSVACV-N250025***
2½"	0.95	0.28	3/8"	2.57	3.05	***BSVACV-N250375***
2½"	0.88	0.37	1/2"	2.56	3.05	***BSVACV-N250050***
3"	0.96	0.21	¼"	2.84	3.58	***BSVACV-N300025***
3"	0.95	0.28	3/8"	2.37	3.58	***BSVACV-N300375***
3"	0.88	0.37	1/2"	2.83	3.58	***BSVACV-N300050***
4"	0.96	0.21	¼"	3.39	4.68	***BSVACV-N400025***
4"	0.95	0.28	3/8"	3.39	4.68	***BSVACV-N400375***
4"	0.88	0.37	1/2"	3.38	4.68	***BSVACV-N400050***



Index

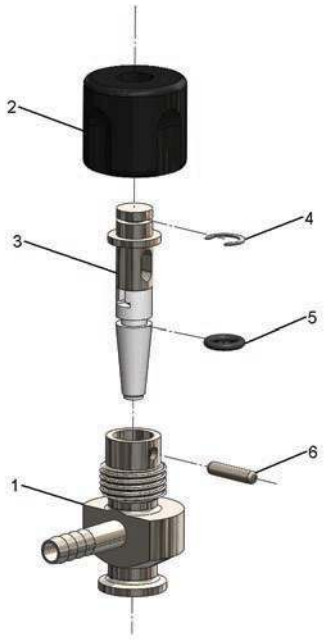
Angle Sample Valve 227-228
Inline Sample Valve 229-230
W Series Sample Valve 231-232
Topping Gun 233

All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

V
W

Sample Valves

Angle Sample Valves - *BSVACV*
Bill of Materials



Item #	Description	Material	Quantity
1	body	316L stainless steel	1
2	knob	ULTEM (FDA)	1
3	stem	316L stainless / PTFE	1
4	E-clip	304 stainless steel	1
5	O-ring	FKM	1
6	body pin	316L stainless steel	1

Repair Kits

Repair kit contains:
- (1) PTFE seat
- (1) FKM O-ring
- (1) 316 stainless steel stop pin
- (1) 304 stainless steel E-clip

Size	Part Number
¼"	***BSVA-NRKS025***
⅜"	***BSVA-NRKS038***
½"	***BSVA-NRKS050***

W

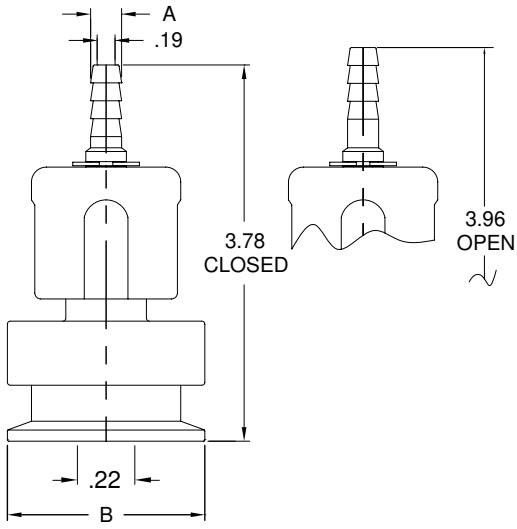
Sample Valves

Inline Sample Valves - *BSVICV*

Features:
- all 316L stainless wetted part construction
- standard finish to 20 R_a ID / 32 R_a OD
- FKM O-ring
- fully traceable (material test reports)
- virgin PTFE seat for positive closure
- minimal internal dead-leg area
- sizes available: ½" thru 4"
- temperature rating: **300°F** at **200 PSI**

Inline Sample Valve Dimensions

Valve Size	Barb A	Ferrule B	Part Number
½"	¼"	0.99	***BSVICV-N050025***
½"	⅜"	0.99	***BSVICV-N050375***
½"	½"	0.99	***BSVICV-N050050***
¾"	¼"	0.99	***BSVICV-N075025***
¾"	⅜"	0.99	***BSVICV-N075375***
¾"	½"	0.99	***BSVICV-N075050***
1"	¼"	1.98	***BSVICV-N100025***
1"	⅜"	1.98	***BSVICV-N100375***
1"	½"	1.98	***BSVICV-N100050***
1½"	¼"	1.98	***BSVICV-N150025***
1½"	⅜"	1.98	***BSVICV-N150375***
1½"	½"	1.98	***BSVICV-N150050***
2"	¼"	2.52	***BSVICV-N200025***
2"	⅜"	2.52	***BSVICV-N200375***
2"	½"	2.52	***BSVICV-N200050***
2½"	¼"	3.05	***BSVICV-N250025***
2½"	⅜"	3.05	***BSVICV-N250375***
2½"	½"	3.05	***BSVICV-N250050***
3"	¼"	3.58	***BSVICV-N300025***
3"	⅜"	3.58	***BSVICV-N300375***
3"	½"	3.58	***BSVICV-N300050***
4"	¼"	4.68	***BSVICV-N400025***
4"	⅜"	4.68	***BSVICV-N400375***
4"	½"	4.68	***BSVICV-N400050***



All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

W

Sample Valves

Inline Sample Valves - *BSVICV*
Bill of Materials

Item #	Description	Material	Quantity
1	body	316L stainless steel	1
2	knob	ULTEM (FDA)	1
3	stem	316L stainless / PTFE	1
4	E-clip	304 stainless steel	1
5	O-ring	FKM	1
6	body pin	316L stainless steel	1

Repair Kits

Size	Part Number
¼"	***BSVI-NRKS025***
⅜"	***BSVI-NRKS038***
½"	***BSVI-NRKS050***

Repair kit contains:
(1) stem assembly
(1) FKM O-ring
(1) 316 stainless steel stop pin
(1) 304 stainless steel E-clip

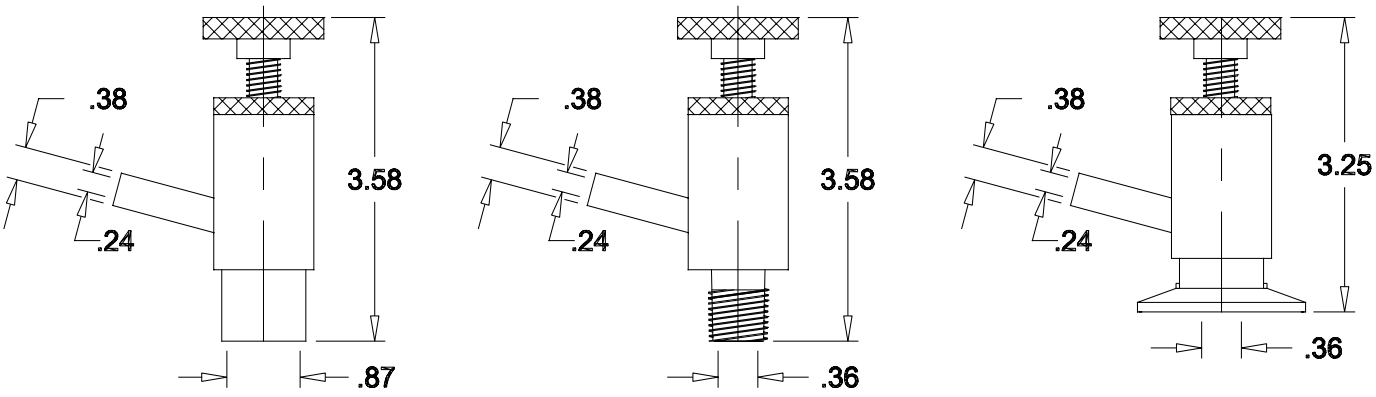
W

Sample Valves

W Series Sample Valves - *BSVW*S*

Features:
- 304 stainless steel
- double silicone O-rings
- silicone or PTFE seat ensures a leak-proof shut-off
- surface finish polished to sanitary standards
- temperature rating: **300°F** at **200 PSI**

Size	Style	Seat Material	Weight (lbs)	*304 Stainless Steel* Part Number
⅜"	NPT	silicone	0.72	***BSVWNS-G375***
⅜"	NPT	PTFE	0.72	***BSVWNP-G375***
1"	clamp	silicone	0.88	***BSVWCS-G100***
1"	clamp	PTFE	0.88	***BSVWCP-G100***
1"	weld	silicone	0.72	***BSVWBS-G100***
1"	weld	PTFE	0.72	***BSVWBP-G100***

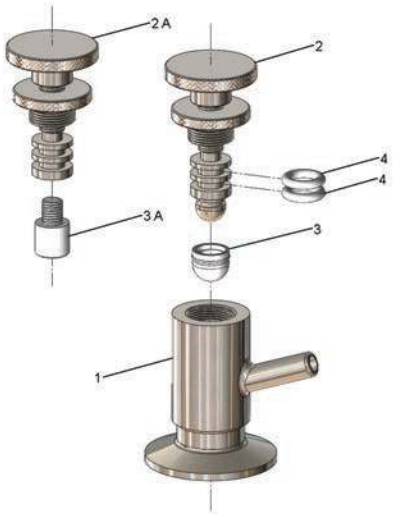


All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request. Specifications are subject to change without notice.

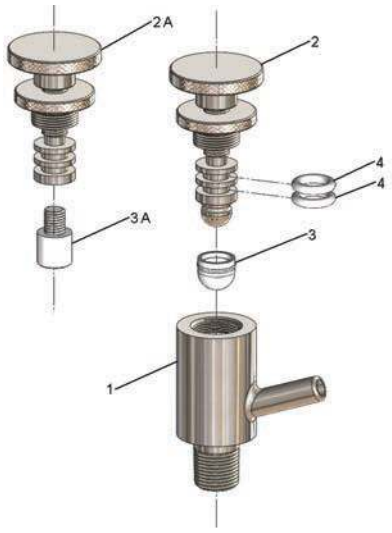
W

Sample Valves

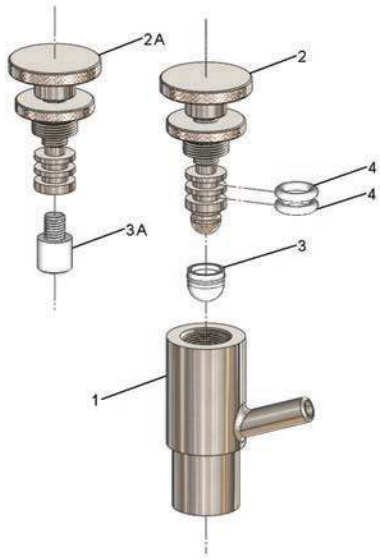
W Series Sample Valves - *BSVW*S*
Bill of Materials



clamp



NPT



weld

Item #	Description	Material	Quantity
1	body - clamp	304 stainless steel	1
1	body - NPT	304 stainless steel	1
1	body - weld	304 stainless steel	1
2	knob / stem assembly	304 stainless steel	1
2A	knob / stem assembly	304 stainless steel	1
3	seat	silicone	1
3A	seat	PTFE	1
4	O-rings	silicone	2

Repair Kits

BSVW-RKS repair kit contains:
(2) silicone O-rings
(1) silicone seat

BSVW-RKP repair kit contains:
(2) silicone O-rings
(1) PTFE seat

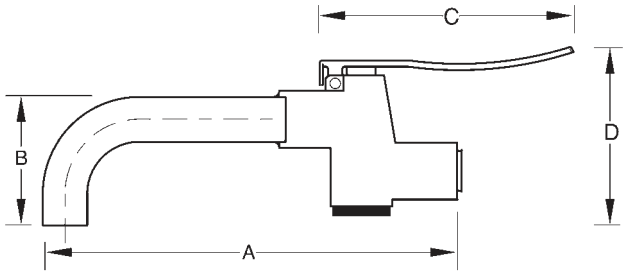
W

Topping Gun

Topping Gun - *BTG*

Features:
- all 304 stainless steel construction
- ½" female NPT inlet
- ¾" OD tube outlet
- squeeze handle for easy opening and control
- spring loaded trigger for positive shutoff
- EPDM seals and gaskets

A	B	C	D	Part Number
8.094	3.375	4.750	4.563	***BTG-G50***



All dimensions are in inches unless otherwise noted. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Sanitary Gaskets

Materials available:

- Nitrile (Buna N)
- Silicone (peroxide cured)
- EPDM
- FKM
- PTFE

Certified as required to:

- US Pharmacopoeia Class VI Cytotoxicity Criteria
- Title 21CFR177.2600 & .1550
- USDA and 3A Sanitary Standards

All elastomeric gaskets require periodic replacement. Gasket life is influenced by the gasket material, product application, temperature, cleaning procedures, etc. After monitoring gasket conditions in a process system, a schedule should be developed for replacement of gaskets.

Color Coding - Identification of Gasket Materials

Elastomer	Part Number Identifier	Color Code	Useful Temperature
Buna-N	U	1 red dot	-25°F to 225°F
White Buna-N	UW	1 red dot	-25°F to 225°F
EPDM peroxide cured	E	3 green dots	-40°F to 275°F
FKM	SFY	1 white dot 1 yellow dot	-15°F to 375°F
Silicone peroxide cured	XW	1 pink dot	-50°F to 400°F
Silicone peroxide cured	XC	none	-50°F to 400°F
PTFE	G	none	-10°F to 300°F
PTFE w/50% 316 particles	GTS	none	-20°F to 450°F

Packaging and Storing Information

The shelf life of rubber gaskets is the maximum period from cure date to the date the product is installed. During the shelf life time, the rubber product is expected to retain its characteristics under the following conditions:

- stored in original packaging in a clean, dry warehouse
- not exposed to direct sunlight
- stored no closer than 6 feet from electric motors
- temperature between **65°F to 85°F**

A guideline for shelf life of rubber gaskets manufactured from the following components should have the following shelf life not to exceed:

- Buna 10 years
- EPDM 10 years
- FKM 10 years
- Silicone 5 years
- PTFE 20 years

Particulate Reference Chart

316 Square Mesh Wire Cloth Information

- special order parts, minimum order quantities required

Mesh	Micron Equivalent	Opening Width	Wire Diameter	Openings per Square Inch
4	5400	.215	.035	16
6	3221	.132	.035	36
8	2441	.097	.028	64
9	2089	.083	.025	81
10 [1]	1887	.075	.023	100
12	1510	.050	.023	144
14 [2]	1283	.051	.020	196
16	1082	.0455	.016	256
20	855	.034	.016	400
30	427	.017	.016	900
35	422	.0168	.0118	1275
40	377	.015	.010	1600
50	276	.011	.009	2500
60	226	.009	.0075	3600
80	176	.007	.0055	6400
100 [3]	151	.006	.0045	10,000
120 [3]	120	.0048	.0035	14,400
150 [3]	103	.0041	.0026	22,500
200 [3]	73	.0029	.0021	40,000

[1] standard size for clamp style gaskets
[2] standard size for bevel seat size gaskets
[3] available in only 1", 1½" and 2" sizes

Perforated 316 Disc Information

- 1 micron = .00003973 inches
- special order - minimums apply

Hole Diameter	Micron Equivalent	Open Area
.020"	503	30%
.033"[1]	803	28%
.063"	1573	23%
.100"	2517	33%
.125"	3146	40%
.250"	6350	58%

[1] standard size for clamp style

A Guideline for Compound Selection for Use with Various Fluids and Chemicals

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. Dixon Sanitary assumes no responsibility. All effect ratings assume static conditions at ambient temperatures.

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 Choride (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 Phospate (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

fluid	material				
	Buna	*EPDM*	*FKM*	PTFE	*Silicone*
Butyl Acetyl Ricinoleate	C	A	A	E	E
Butyl Alcohol	A	B	A	A	B
Butyl Amine	C	B	D	E	D
Butyl Benzoate	D	B	A	E	E
Butyl Carbitol	D	A	A	A	D
Butyl Cellosoive	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
Cellosoive Acetate	D	B	D	A	D
China Wood Oil (Tung Oil)	A	C	A	A	D
Chlorine (wet)	D	C	A	A	D
Chlorine Dioxide	D	C	A	A	E
Chloroacetic Acid	D	A	D	A	E
Chloroacetone	D	A	D	E	D
Chlorobenzene	D	D	A	E	D
Chlorobromomethane	D	B	A	E	D
Chloroform	D	D	A	A	D
Chlorotoluene	D	D	A	E	D
Chrome Plating Solutions	D	C	A	A	C
Chromic Acid	D	B	A	A	B
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

fluid	material				
	Buna	*EPDM*	*FKM*	PTFE	*Silicone*
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
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
Diisopropylidence 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
Dioctyl Phthalate	C	B	B	E	C
Dioctyl 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 Cellosoive	D	B	D	E	D
Ethyl Cellulose	B	B	D	A	C
Ethyl Chloride	A	C	A	A	D

fluid	material				
	Buna	*EPDM*	*FKM*	PTFE	*Silicone*
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
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
Methyl Acetate	D	A	D	A	D

X

fluid	material				
	Buna	*EPDM*	*FKM*	PTFE	*Silicone*
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 Cellosoive	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
Phosphorus Trichloride	D	A	A	A	E
Piperidine	D	A	D	E	D
Polyvinyl Acetate Emulsion	E	A	E	E	E
Potassium Acetate (aq)	B	A	D	E	D
Potassium Chloride (aq)	A	A	A	A	A
Potassium Cyanide (aq)	A	A	A	A	A

fluid	material				
	Buna	*EPDM*	*FKM*	PTFE	*Silicone*
Potassium Nitrate (aq)	A	A	A	A	A
i-Propyl Acetate	D	B	D	E	D
Propyl Nitrate	D	B	D	E	D
Propylene	D	D	A	A	D
Pyridine	D	B	D	E	D
Salicylic Acid	B	A	A	E	E
Silicone Oils	A	A	A	A	C
Soap Solutions	A	A	A	A	A
Sodium Acetate (aq)	B	A	D	E	D
Sodium Bicarbonate (aq)	A	A	A	A	A
Sodium Borate (aq)	A	A	A	A	A
Sodium Chloride (aq)	A	A	A	A	A
Sodium Hydroxide (aq)	B	A	B	A	B
Sodium Nitrate (aq)	B	A	E	E	D
Sodium Peroxide (aq)	B	A	A	E	D
Soybean Oil	A	C	A	A	A
Steam, under 300°F	D	A	D	A	C
Stearic Acid	B	B	E	A	B
Stoddard Solvent	A	D	A	A	D
Sulfur Chloride (aq)	C	D	A	B	C
Sulfuric Acid (dilute)	C	B	A	E	D
Sulfurous Acid	B	B	A	A	D
Tannic Acid	A	A	A	A	B
Tartaric Acid	A	B	A	A	A
Tetrachloroethylene	D	D	A	A	D
Toluene	D	D	A	A	D
Triethanol Amine	B	A	D	A	E
Trioctyl Phosphate	D	A	B	E	C
Tung Oil (China Wood Oil)	A	C	A	A	D
Turpentine	A	D	A	A	D
Vegetable Oils	A	C	A	A	B
Vinegar	B	A	A	A	A
Whiskey, Wines	A	A	A	A	A
White Pine Oil	B	D	A	E	D
Zinc Chloride (aq)	A	A	A	A	A

Fraction - Decimal Conversion Chart

	Inches	Millimeters
1/64	.015625	.3969
1/32	.03125	.7938
3/64	.046875	1.1906
1/16	.0625	1.5875
5/64	.078125	1.9844
3/32	.09375	2.3813
7/64	.109375	2.7781
1/8	.125	3.1750
9/64	.140625	3.5719
5/32	.15625	3.9688
11/64	.171875	4.3656
3/16	.1875	4.7625
13/64	.203125	5.1594
7/32	.21875	5.5563
15/64	.234375	5.9531
1/4	.250	6.3500
17/64	.265625	6.7469
9/32	.28125	7.1438
19/64	.296875	7.5406
5/16	.3125	7.9375
21/64	.328125	8.3344
11/32	.34375	8.7313
23/64	.359375	9.1282
3/8	.375	9.5250
25/64	.390625	9.9219
13/32	.40625	10.3188
27/64	.421875	10.7157
7/16	.4375	11.1125
29/64	.453125	11.5094
15/32	.46875	11.9063
31/64	.484375	12.3032
1/2	.500	12.7001
33/64	.515625	13.0969
17/32	.53125	13.4938
35/64	.546875	13.8907
9/16	.5625	14.2876
37/64	.578125	14.6844
19/32	.59375	15.0813
39/64	.609375	15.4782
5/8	.625	15.8751
41/64	.640625	16.2719
21/32	.65625	16.6688
43/64	.671875	17.0657
11/16	.6875	17.4626
45/64	.703125	17.8594
23/32	.71875	18.2563
47/64	.734375	18.6532
3/4	.750	19.0501
49/64	.765625	19.4470
25/32	.78125	19.8438
51/64	.796875	20.2407
13/16	.8125	20.6376
53/64	.828125	21.0345
27/32	.84375	21.4313
55/64	.859375	21.8282
7/8	.875	22.2251
57/64	.890625	22.6220
29/32	.90625	23.0188
59/64	.921875	23.4157
15/16	.9375	23.8126
61/64	.953125	24.2095
31/32	.96875	24.6063
63/64	.984375	25.0032
1	1.000	25.4001

X

Temperature Conversions

Look up reading in middle column (shaded). If in degrees Centigrade, read Fahrenheit equivalent in right-hand column; if in degrees Fahrenheit, read Centigrade equivalent in left-hand column.

°C	°F \ °C	°F
-73	-100	-148
-68	-90	-130
-62	-80	-112
-57	-70	-94
-51	-60	-76
-46	-50	-58
-40	-40	-40
-34	-30	-22
-29	-20	-4
-23	-10	14
-17.8	0	32
-17.2	1	33.8
-16.7	2	35.6
-16.1	3	37.4
-15.6	4	39.2
-15.0	5	41.0
-14.4	6	42.8
-13.9	7	44.6
-13.3	8	46.4
-12.8	9	48.2
-12.2	10	50.0
-11.7	11	51.8
-11.1	12	53.6
-10.6	13	55.4
-10.0	14	57.2
-9.4	15	59.0
-8.9	16	60.8
-8.3	17	62.6
-7.8	18	64.4
-7.2	19	66.2
-6.7	20	68.0
-6.1	21	69.8
-5.6	22	71.6
-5.0	23	73.4
-4.4	24	75.2
-3.9	25	77.0
-3.3	26	78.8
-2.8	27	80.6
-2.2	28	82.4
-1.7	29	84.2
-1.1	30	86.0
-.6	31	87.8
0	32	89.6
.6	33	91.4
1.1	34	93.2
1.7	35	95.0
2.2	36	96.8
2.8	37	98.6
3.3	38	100.4
3.9	39	102.2
4.4	40	104.0

°C	°F \ °C	°F
5.0	41	105.8
5.6	42	107.6
6.1	43	109.4
6.7	44	111.2
.72	45	113.0
7.8	46	114.8
8.3	47	116.6
8.9	48	118.4
9.4	49	120.2
10.0	50	122.0
10.6	51	123.8
11.1	52	125.6
11.7	53	127.4
12.2	54	129.2
12.8	55	131.0
13.3	56	132.8
13.9	57	134.6
14.4	58	136.4
15.0	59	138.2
15.6	60	140.0
16.1	61	141.8
16.7	62	143.6
17.2	63	145.4
17.8	64	147.2
18.3	65	149.0
18.9	66	150.8
19.4	67	152.6
20.0	68	154.4
20.6	69	156.2
21.1	70	158.0
21.7	71	159.8
22.2	72	161.6
22.8	73	163.4
23.3	74	165.2
23.9	75	167.0
24.4	76	168.8
25.0	77	170.6
25.6	78	172.4
26.1	79	174.2
26.7	80	176.0
27.2	81	177.8
27.8	82	179.6
28.3	83	181.4
28.9	84	183.2
29.4	85	185.0
30.0	86	186.8
30.6	87	188.6
31.1	88	190.4
31.7	89	192.2
32.2	90	194.0
32.8	91	195.8

°C	°F \ °C	°F
33.3	92	197.6
33.9	93	199.4
34.4	94	201.2
35.0	95	203.0
35.6	96	204.8
36.1	97	206.6
36.7	98	208.4
37.2	99	210.2
37.8	100	212.0
43	110	230
49	120	248
54	130	266
60	140	284
66	150	302
71	160	320
77	170	338
82	180	356
88	190	374
93	200	392
99	210	410
100	212	413.6
104	220	428
110	230	446
116	240	464
121	250	482
127	260	500
132	270	518
138	280	536
143	290	554
149	300	572
154	310	590
160	320	608
166	320	626
170	338	640
171	340	644
177	350	662
182	360	680
186	366	691
188	370	698
193	380	716
198	388	730
199	390	734
204	400	752
208	406	763
210	410	770
216	420	788
221	430	806
227	440	824
232	450	842

Water Data and Formulas

1 gallon water = 231 cubic inches = 8.333 pounds

1 pound of water = 27.7 cubic inches

1 cubic foot water = 7.5 gallons = 62.5 pounds (salt water weighs approximately 64.3 pounds per cubic foot)

Pounds per square inch at bottom of a column of water = height of column in feet x .434

Horsepower to Raise Water
If pumping liquid other than water, multiply the gallons per minute below by the liquids specific gravity

$$\text{Horsepower} = \frac{\text{gallons per minute x total head in feet}}{3960}$$

Gallons Per Minute through a Pipe
GPM = .0408 x pipe diameter inches^2 x feet/minute water velocity

Weight of Water in a Pipe
Pounds water = pipe length feet x pipe diameter inches^2 x .34

(no losses included)

Water Level (inches)	Gallons per Minute Discharge for a Given Nominal Pipe Diameter (inches)				
	5	6	8	10	12
5	163	---	---	---	---
6	195	285	---	---	---
7	228	334	580	---	---
8	260	380	665	1060	---
9	293	430	750	1190	1660
10	326	476	830	1330	1850
11	360	525	915	1460	2020
12	390	570	1000	1600	2220
13	425	620	1080	1730	2400
14	456	670	1160	1860	2590
15	490	710	1250	2000	2780
16	520	760	1330	2120	2960
17	550	810	1410	2260	3140
18	590	860	1500	2390	3330
19	620	910	1580	2520	3500
20	650	950	1660	2660	3700
21	685	1000	1750	2800	3890
22	720	1050	1830	2920	4060
23	750	1100	1910	3060	4250
24	---	1140	2000	3200	4440

Measurement Information

Measures of Pressure

1 Pound Per Square Inch = 144 Pounds Per Square Foot = 0.068 Atmosphere = 2.042 Inches of Mercury at 62°F = 27.7 Inches of Water at 62°F = 2.31 Feet of Water at 62°F.

1 Atmosphere = 30 Inches of Mercury at 62°F = 14.7 Pounds Per Square Inch = 2116.3 Pounds Per Square Foot = 33.95 Feet of Water at 62°F.

1 Foot of Water at 62°F = 62.355 Pounds Per Square Foot = 0.433 Pounds Per Square Inch.

1 Inch of Mercury at 62°F = 1.132 Feet of Water = 13.58 Inches of Water = 0.491 Pounds Per Square Inch.

Column of Water 12 Inches High, 1 Inch in Diameter = .341 Pounds

Length Conversion Constants

Millimeters x .039370 = Inches
Meters x 39.370 = Inches
Meters x 3.2808 = Feet
Meters x 1.09361 = Yards
Kilometers x 3,280.8 = Feet
Kilometers x .62137 = Statute Mile
Kilometers x .53959 = Nautical Miles

Inches x 25.4001 = Millimeters
Inches x .0254 = Meters
Feet x .30480 = Meters
Yards x .91440 = Meters
Feet x .0003048 = Kilometers
Statute Miles x 1.60935 = Kilometers
Nautical Miles x 1.85325 = Kilometers

Weight Conversion Constants

Grams x .03527 = Ounces (Avd.)
Grams x .033818 = Fluid Ounces (Water)
Kilograms x 35.27 = Ounces (Avd.)
Kilograms x 2.20462 = Pounds (Avd.)

Ounces (Avd.) x 28.35 = Grams
Fluid Ounces (Water) x 29.57 = Grams
Ounces (Avd.) x .02835 = Kilograms
Pounds (Avd.) x .45359 = Kilograms

Thread Dimensions

Size	Pipe OD	Tapered Threads		Straight Threads		
		NPT	BSPTr	Acme 3A		
		TPI	TPI	TPI	ODM (max)	IDF (min)
⅛"	.405	27	28			
¼"	.504	18	19			
3/8"	.675	18	19			
1/2"	.840	14	14			
3/4"	1.050	14	14			
1"	1.315	11.5	11	8	1.462	1.352
1-¼"	1.660	11.5	11			
1-1/2"	1.900	11.5	11	8	1.994	1.884
2"	2.375	11.5	11	8	2.526	2.416
2-1/2"	2.875	8	11	8	3.058	2.948
3"	3.500	8	11	8	3.590	3.480
4"	4.500	8	11	6	4.695	4.544
5"	5.563	8	11			
6"	6.625	8	11			
8"	8.625	8				
10"	10.750	8				
12"	12.750	8				

ODM -- Outside Diameter of the Male

IDF -- Inside Diameter of the Female

TPI -- Threads Per Inch

GHT (3/4") -- 1.0625 ODM, 11-1/2 TPI

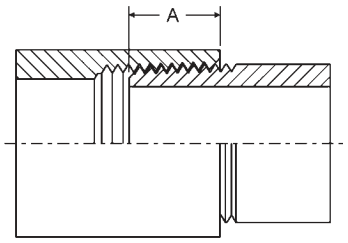
NPT = National Pipe Taper

BS = British Standard

Normal Engagement Length of NPT Thread in Inches (A) *

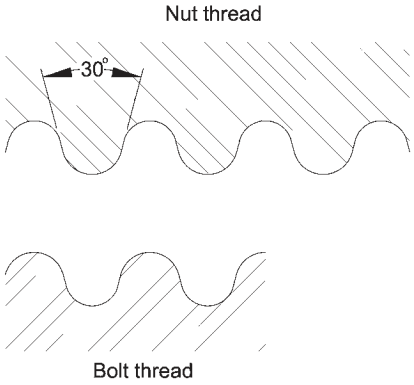
Pipe Size	A
⅛"	¼"
¼"	3/8"
3/8"	3/8"
1/2"	1/2"
3/4"	9/16"
1"	11/16"
1-¼"	11/16"
1-1/2"	11/16"
2"	3/4"

Pipe Size	A
2-1/2"	15/16"
3"	1"
4"	1-⅛"
5"	1-¼"
6"	1-5/16"
8"	1-7/16"
10"	1-5/8"
12"	1-3/4"

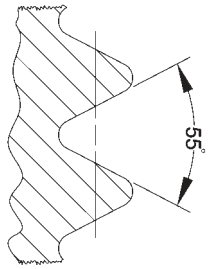


* Dimensions given do not allow for variations in tapping or threading.

Identifying Threads



DIN knuckle threads for sanitary applications have a unique round shape making them easy to identify. There is a 30° included angle between the threads. There are 6 to 8 threads per inch for sanitary fittings. Measuring the ID of the round nut or the OD of the threads on the weld liner will help with identification. As Dixon Sanitary will be offering inch sizes, the best size identification is the OD of the tube.



The threads for RJT fittings are British Standard Whitworth. These look similar to straight threads but have a 55° angle and small radii on the tips rather than the flat tips and 60° angle found on U.S. standard straight threads. There are 6 to 8 threads per inch for the sanitary fittings.

Identifying Threads

It is important to identify the threads required before ordering couplings.

Identifying threads can sometimes be the most difficult and frustrating part of coupling selection. However, without the right combination of threads, you may not provide a functional or safe connection.

The diameters, threads per inch (TPI) and thread pitch, etc. are necessary to completely identify a thread. Ring, Plug and GO/NOGO gauges are required to accurately gauge or identify threads. In the field, in the absence of these gauges, thread leaf gauges can be used to identify the Threads Per Inch (TPI) and the thread pitch. On threads you have determined to be straight threads, a caliper can be used to measure the Outside Diameter of the Male (ODM) or the Inside Diameter of the Female (IDF). A caliper can also be used to take measurements of tapered thread diameters. However, these are more difficult to define because of the taper. Fortunately, there are few tapered threads to deal with and these can usually be identified from the nominal ODM and the TPI.

However, identifying the thread may not fully identify what is needed in a mating fitting. The application is the primary *limiting factor on the thread type used.* Dixon offers products with a wide variety of threads used with hose, pipe and hydraulics.

When attempting to choose a fitting, it is always advisable to first identify the thread to which it must connect. This may entail checking with a fitting or equipment manufacturer.

When it is not possible to identify the thread:

1) Determine the number of threads per inch by measuring the distance from peak of thread to peak of thread across the largest number of whole threads. Then divide the number of threads by the measurement

   (This will provide the TPI).

2) Check to see if the thread is straight or tapered or flat thread.

   a) Straight Threads

      Measure the Outside Diameter of the Male (ODM) or the Inside Diameter of the Female (IDF), from peak of thread to peak of thread.

   b) Tapered Threads

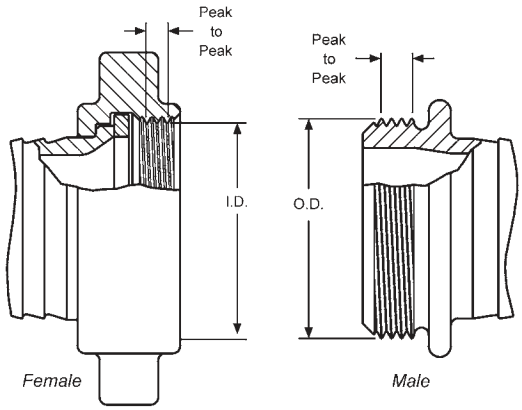
      Measure the Outside Diameter of the Male (ODM) at the large end and the small end, or the Inside Diameter of the Female (IDF) at the large end and the small end, from peak of thread to peak of thread. Then measure the Outside Diameter (OD) of the unthreaded pipe.

   c) Flat (ACME) Threads

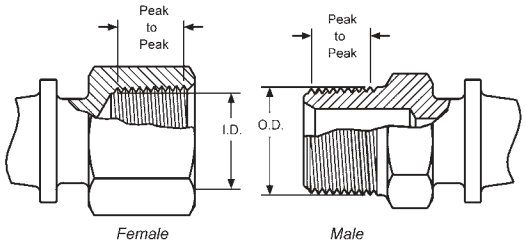
      Acme threads are used for bevel seat and John Perry fittings in sanitary installations. Sizes 1" to 3" (tube size) have 8 threads per (TPI) and the 4" has 6 TPI. There is not a sharp point on this thread and it is a straight thread. The tops of the threads are flat and there is typically a 29° included angle between the threads. Measure the outside diameter of the male (OD) or inside diameter of the female (ID)

Once the application and these two pieces of information have been determined, the thread can generally be determined. When in doubt, contact the factory.

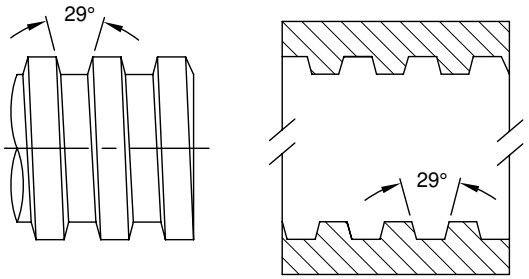
Straight Thread



Tapered Thread

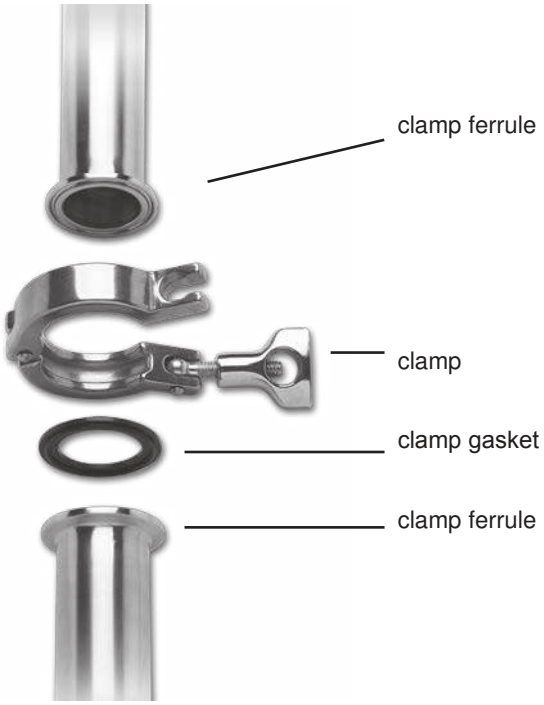


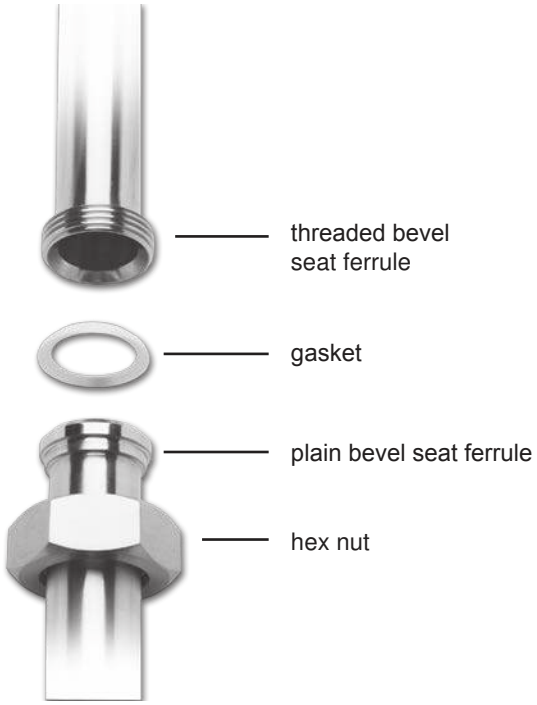
ACME Thread

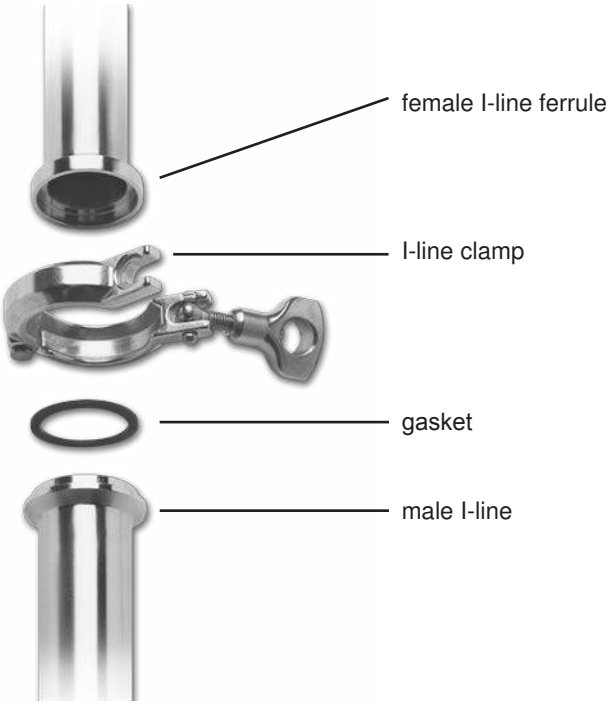


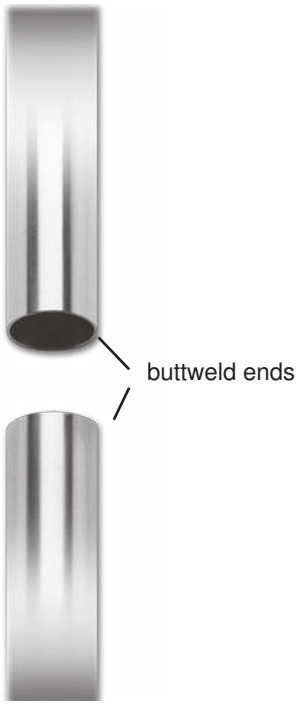
X

Identifying Fittings









NOTE: Clamp type connections are the most popular and are sometimes referred to as Tri-Clamp connections.
All connections are Tube OD ½" to 12"
Materials are available in 304 and 316L stainless steel, (other alloys can be special order)

Part Number Descriptions

2 = Elbow (unpolished, polished, clamp, 90°, 45°, U-bend, sweep, etc.)
7 = Tee (unpolished, polished, clamp, reducing, etc.)
9 = Cross (unpolished, polished, clamp, reducing, etc.)
13 = Clamp (single pin, squeeze, double pin, 3 segment, bolted, I-line, lightweight, etc.)
14 = Ferrule (short, long, auto weld, tank, roll on, hose adapter, male I-line, plain bevel seat/ John Perry)
15 = Ferrule (bevel seat threaded or I-line female)
16 = End Cap (clamp, weld, I-line, bevel, etc.)
17 = Adapter ((bevel to clamp, I-line to clamp, etc.)
19 = Adapter (tube O.D. to national pipe thread)
21 = Male Adapter (bevel, clamp, I-line to male pipe thread)
22 = Female Adapter (bevel, clamp, I-line to female pipe thread)
23 = Thermometer (bevel, clamp, I-line, etc.)
24 = Hanger (hex, round, etc.)
28 = Y or lateral (unpolished, polished, clamp, reducing, etc.)
31 = Concentric Reducer (unpolished, polished, clamp, etc.)
32 = Eccentric Reducer (unpolished, polished, clamp, etc.)
38 = Flange
40 = Gaskets (1" and above)
42 = Gaskets (½" and ¾)
45 = Check Valve (spring, ball, air blow)
51 = Butterfly Valve
54 = Sight Glass
RG = Hex tube hanger with rubber grommets
RGC = Hex tube hanger with rubber grommets and coupler
PS = Hex tube hanger with ABS sleeves
PSC = Hex tube hanger with ABS sleeves and coupler
RPH = Round tube hanger with Buna inserts
RPHC= Round tube hanger with Buna inserts and coupler

Fittings Ordering Information

Material Designation:

G - 304
R - 316L

Size:

½" = 050
¾" = 075
1" = 100
1½" = 150
2" = 200
2½" = 250
3" = 300
4" = 400
6" = 600
8" = 800
10" = 1000
12" = 1200

Ordering Example:

B 3 1 1 4 M P - G 1 5 0 1 0 0

Description:

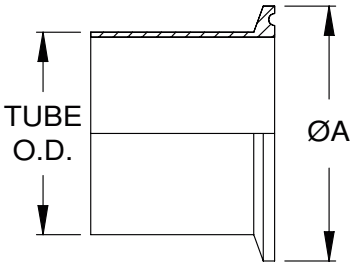
Concentric reducer with clamp ends in 304 material 1½" by 1"

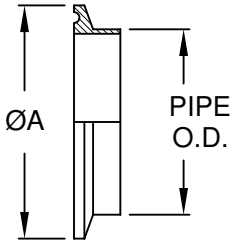
Identifying Fittings

Clamp Ferrules

Specifications:

- ASME BPE
- BS 4825
- ISO 2852
- DIN 32676





Note: flanges are symmetrical

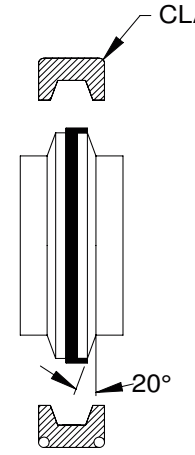
Tube

Tube OD (inches)	ØA
½	.992
¾	.992
1	1.988
1½	1.988
2	2.520
2½	3.051
3	3.583
4	4.685
5	5.687
6	6.570
8	8.602
10	10.570
12	12.570

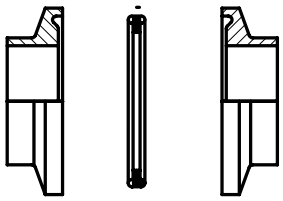
Pipe

Pipe Size (inches)	Pipe OD (inches)	ØA
1	1.315	1.984
1¼	1.660	2.516
1½	1.900	2.516
2	2.375	3.047
2½	2.875	3.579
3	3.500	4.125
4	4.500	5.125
6	6.625	7.195
8	8.625	9.200

Clamp Connection



sizes 1" - 12"



sizes ½" and ¾"

Gaskets

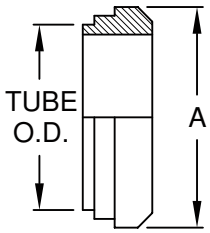
Type 1 Standard ½" and ¾"

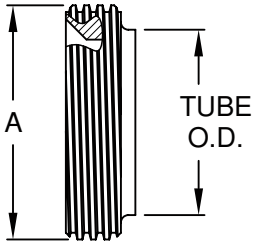
Type 1 Standard 1" - 12"

Type 2 Flanged 1" - 12"

Identifying Fittings

Bevel Seat Ferrules





Plain

Tube OD (inches)	ØA
1	1.312
1½	1.848
2	2.380
2½	2.912
3	3.444
4	4.508

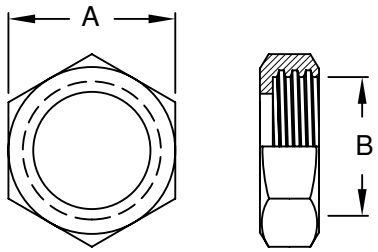
Threaded

Tube OD (inches)	ØA
1	1.462
1½	1.994
2	2.526
2½	3.058
3	3.590
4	4.695

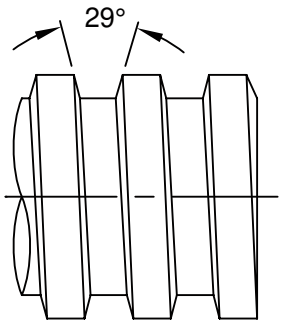
13H Hex Nuts

Nut

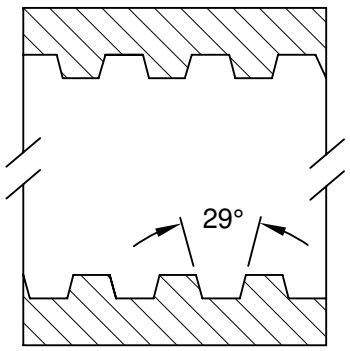
Tube OD (inches)	A Across Flats	B Thread ID	Threads per inch
1	1.812	1.362	8
1½	2406	1.894	8
2	3.000	2.426	8
2½	3.594	2.958	8
3	4.188	3.490	8
4	5.438	4.554	6



Acme Thread Form



male thread

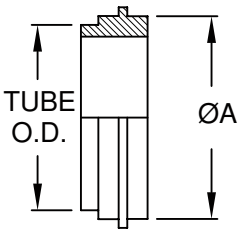


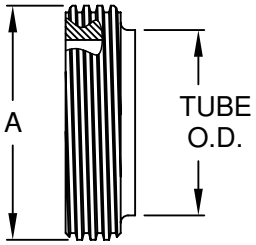
female thread

Gasket

Identifying Fittings

John Perry Ferrules





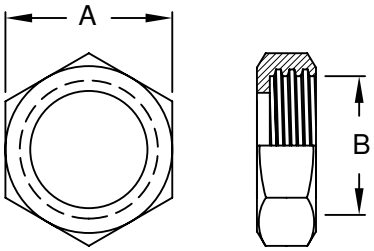
Plain

Tube OD (inches)	ØA
1	1.125
1½	1.656
2	2.187
2½	2.656
3	3.187
4	4.187

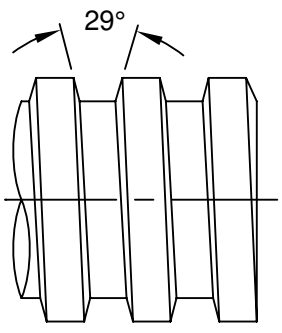
Threaded

Tube OD (inches)	ØA
1	1.462
1½	1.994
2	2.526
2½	3.058
3	3.590
4	4.695

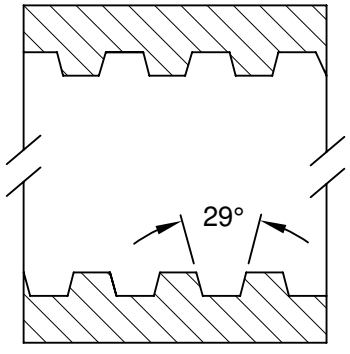
13H Hex Nuts



Tube OD (inches)	A Across Flats	B Thread ID	B Thread ID
1	1.812	1.362	8
1½	2.406	1.894	8
2	3.000	2.426	8
2½	3.594	2.958	8
3	4.188	3.490	8
4	5.438	4.554	6



male thread

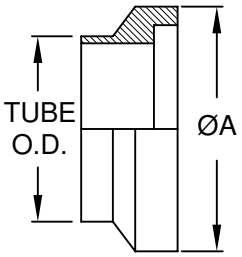


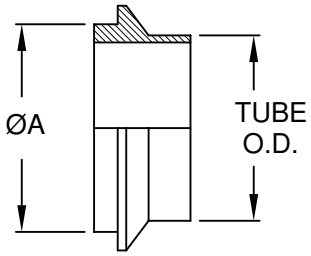
female thread

Gasket

Identifying Fittings

I-line Ferrules





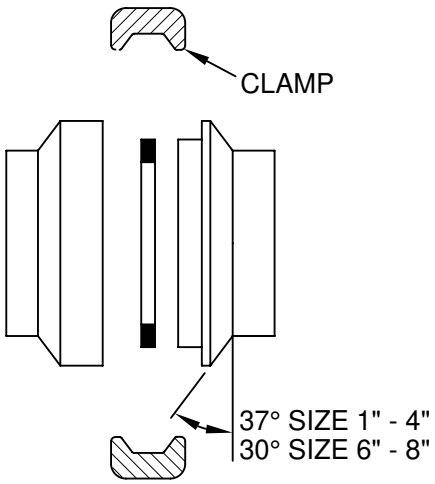
Female

Tube OD (inches)	ØA
1	1.985
1½	1.985
2	2.640
2½	3.307
3	3.870
4	4.870
6	7.495
8	9.945

Male

Tube OD (inches)	ØA
1	1.250
1½	1.740
2	2.240
2½	2.740
3	3.300
4	4.297
6	6.830
8	8.830

Clamp Connection

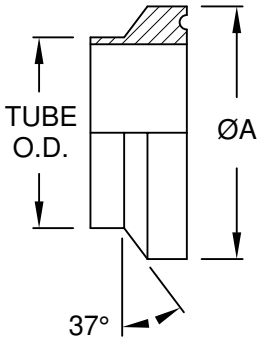


Gasket

Identifying Fittings

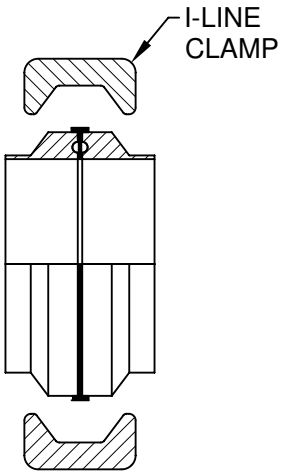
Q-line Ferrules

both halves of a jointed connection are symmetrical



Tube OD (inches)	ØA
1	1.985
1½	1.985
2	2.640
2½	3.307
3	3.870
4	4.870

Clamp Connection



Gasket

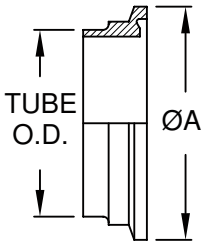
Identifying Fittings

APC Clamped Ferrules

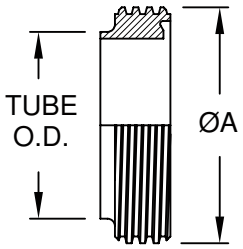
both halves of a jointed connection are symmetrical

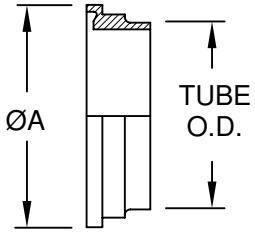
clamp ferrule

Tube OD (inches)	ØA
1	1.98
1½	1.98
2	2.52
2½	3.05
3	3.58
4	4.68



APC Threaded Ferrules





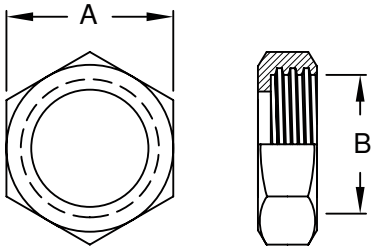
threaded ferrule

Tube OD (inches)	ØA
1	1.462
1½	1.994
2	2.526
2½	3.058
3	3.590
4	4.695

plain ferrule

Tube OD (inches)	ØA
1	1.312
1½	1.848
2	2.380
2½	2.912
3	3.444
4	4.508

13H Hex Nuts



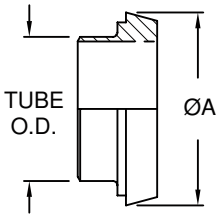
Nut

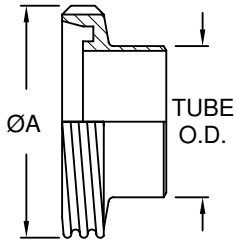
Tube OD (inches)	A Across Flats	B Thread ID	Threads per inch
1	1.812	1.362	8
1½	2406	1.894	8
2	3.000	2.426	8
2½	3.594	2.958	8
3	4.188	3.490	8
4	5.438	4.554	6

Gasket

Identifying Fittings

DIN 11851 Ferrules





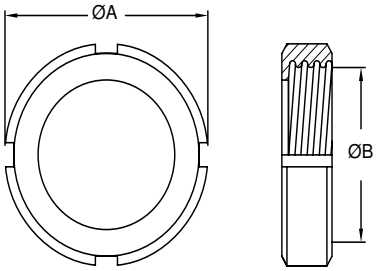
Liners

Tube OD (inches)	ØA
1	1.73
1½	2.20
2	2.68
2½	3.39
3	3.94
4	4.76

Males

Tube OD (inches)	ØA
1	2.04
1½	2.56
2	3.07
2½	3.74
3	4.31
4	5.10

DIN Round Nuts

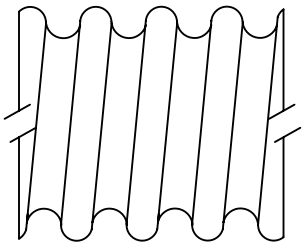


Nut

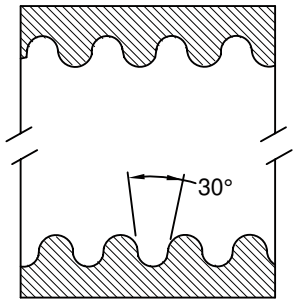
Tube OD (inches)	DN	ØA	B Thread ID	Threads per inch
1	25	2.48	1.88	6
1½	40	3.07	2.39	6
2	50	3.62	2.90	6
2½	65	4.41	3.49	6
3	80	5.00	4.14	4
4	100	5.83	4.94	4

Note: nuts 3" and larger will have 6 slots

DIN Thread Form



male thread



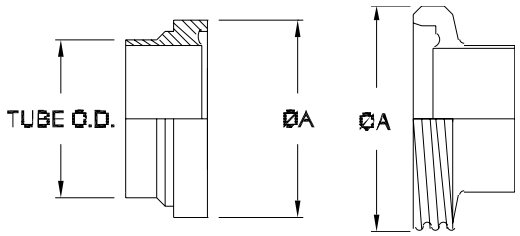
female thread

Gasket

TYPE A TYPE B

Identifying Fittings

DIN 11864-1 Ferrules

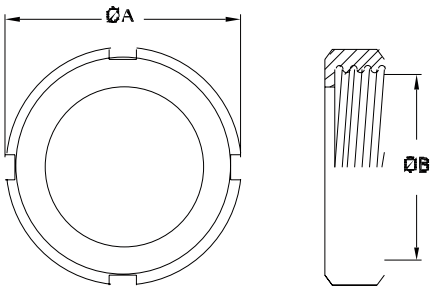


Weld Liner	
Tube OD (inches)	ØA
1	1.69
1½	2.18
2	2.63
2½	3.34
3	3.68
4	4.88

Weld Males	
Tube OD (inches)	ØA
1	2.04
1½	2.56
2	3.07
2½	3.74
3	4.33
4	5.12

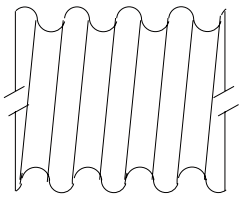
DIN Round Nuts

Nut				
Tube OD (inches)	DN	ØA	B Thread ID	Threads per inch
1	25	2.48	1.88	6
1½	40	3.07	2.39	6
2	50	3.62	2.90	6
2½	65	4.41	3.49	6
3	80	5.00	4.14	4
4	100	5.83	4.94	4

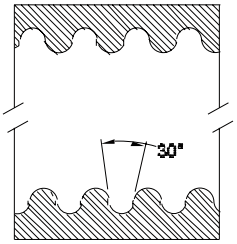


Note: nuts 3" and larger will have 6 slots

DIN 405/1 Thread Form



male thread

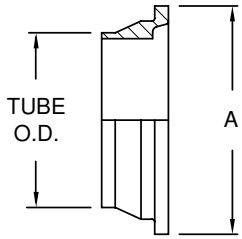


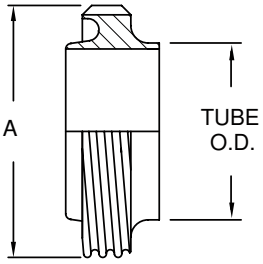
female thread

Gasket

Identifying Fittings

RJT Ferrules





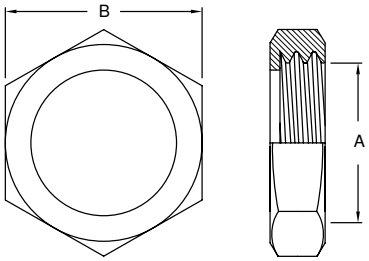
Liners

Tube OD (inches)	ØA
1	1.63
1½	2.13
2	2.63
2½	3.13
3	3.63
4	4.63

Males

Tube OD (inches)	ØA
1	1.80
1½	2.30
2	2.86
2½	3.36
3	3.86
4	4.86

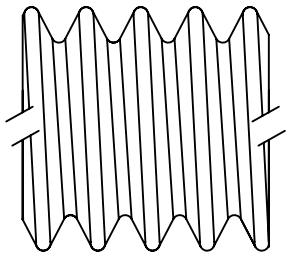
RJT Hex Nuts



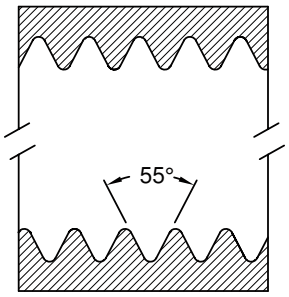
Nut

Tube OD (inches)	ØA Thread ID	B Across flats	Threads per inch
1	1.68	2.00	8
1½	2.18	2.56	8
2	2.69	3.12	6
2½	3.19	3.62	6
3	3.69	4.12	6
4	4.69	5.12	6

RJT Thread Form (British Standard Witworth)



male thread



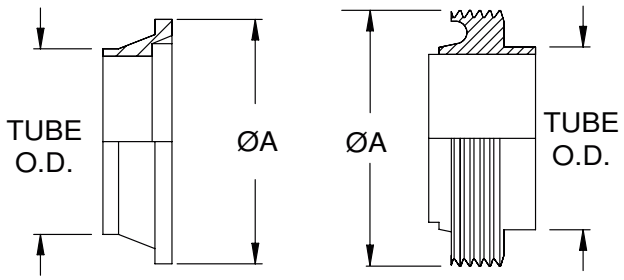
female thread

Gasket

Also known as BSM (British Standard Milk) in Australia
modified into Australian CIP Union

Identifying Fittings

Australian CIP Ferrules



Weld Liners

Tube OD (inches)	ØA
1	1.63
1½	2.13
2	2.63
2½	3.13
3	3.63
4	4.63

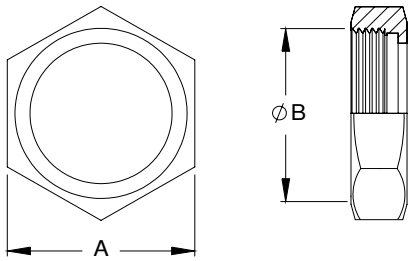
Weld Male

Tube OD (inches)	ØA
1	1.80
1½	2.30
2	2.86
2½	3.36
3	3.86
4	4.86

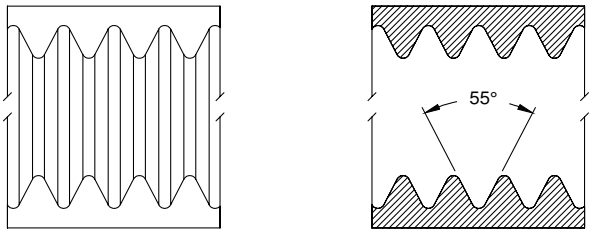
Hex Nut

Nut

Tube OD (inches)	DN	A	B Thread ID	Threads per inch
1	25	2.00	1.68	8
1½	40	2.56	2.18	8
2	50	3.12	2.69	6
2½	65	3.62	3.19	6
3	80	4.12	3.69	6
4	100	5.12	4.69	6



RJT Thread Form (British Standard Witworth)



male thread

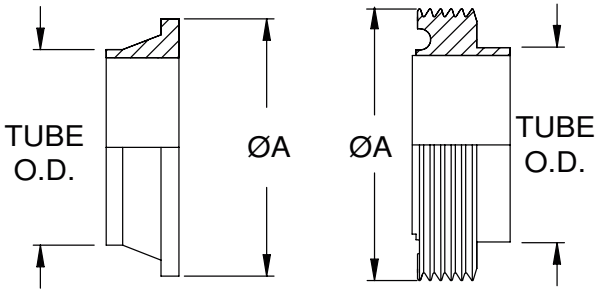
female thread

Gasket

X

Identifying Fittings

Australian CIP Flat Face Ferrules



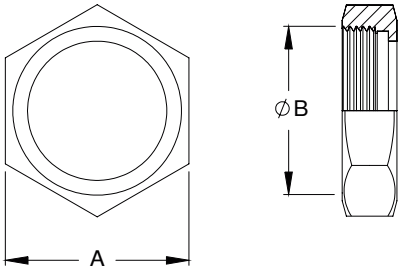
Weld Liners

Tube OD (inches)	ØA
1	1.63
1½	2.13
2	2.63
2½	3.13
3	3.63
4	4.63

Weld Male

Tube OD (inches)	ØA
1	1.80
1½	2.30
2	2.86
2½	3.36
3	3.86
4	4.86

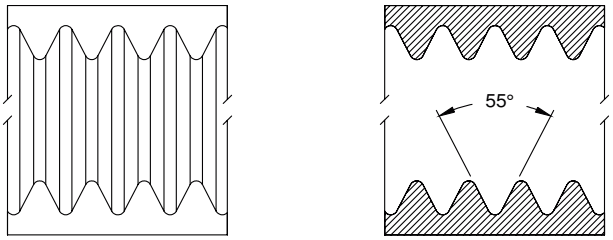
Hex Nut



Nut

Tube OD (inches)	DN	A	B Thread ID	Threads per inch
1	25	2.00	1.68	8
1½	40	2.56	2.18	8
2	50	3.12	2.69	6
2½	65	3.62	3.19	6
3	80	4.12	3.69	6
4	100	5.12	4.69	6

RJT Thread Form (British Standard Witworth)



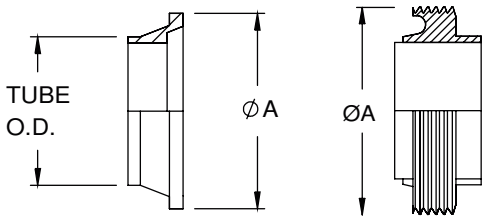
male thread

female thread

Gasket

Identifying Fittings

New Zealand CIP Ferrules



Weld Liners

Tube OD (inches)	ØA
1	1.63
1½	2.13
2	2.63
2½	3.13
3	3.63
4	4.63

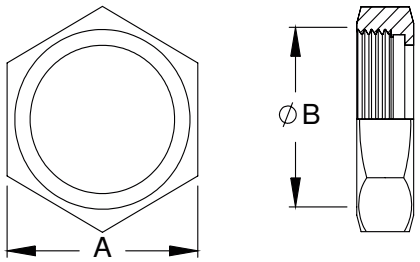
Weld Male

Tube OD (inches)	ØA
1	1.80
1½	2.30
2	2.86
2½	3.36
3	3.86
4	4.86

Hex Nut

Nut

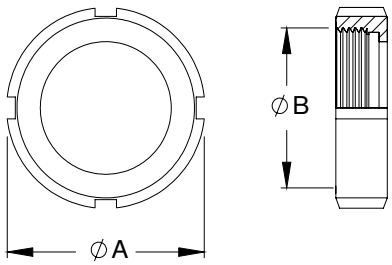
Tube OD (inches)	DN	A	ØB Thread ID	Threads per inch
1	25	2.00	1.68	8
1½	40	2.56	2.18	8
2	50	3.12	2.69	6
2½	65	3.62	3.19	6
3	80	4.12	3.69	6
4	100	5.12	4.69	6



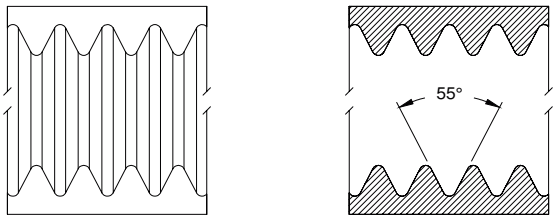
Round Nut

Nut

Tube OD (inches)	DN	ØA	ØB Thread ID	Threads per inch
1	25	2.00	1.68	8
1½	40	2.56	2.18	8
2	50	3.12	2.69	6
2½	65	3.62	3.19	6
3	80	4.12	3.69	6
4	100	5.12	4.69	6



RJT Thread Form (British Standard Witworth)



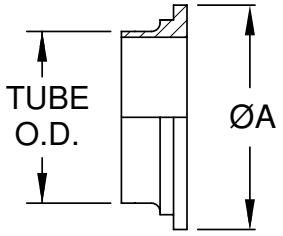
male thread

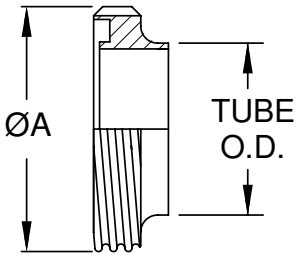
female thread

Gasket

Identifying Fittings

SMS Ferrules





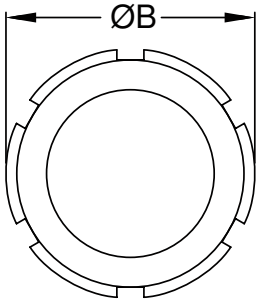
Weld Liner

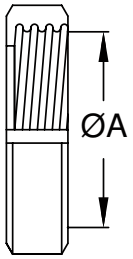
Tube OD (inches)	ØA
1	1.40
1½	2.17
2	2.56
2½	3.15
3	3.66
4	4.65

Males

Tube OD (inches)	ØA
1	1.55
1½	2.34
2	2.74
2½	3.33
3	3.84
4	4.90

Round Nut
All nuts have 6 slots

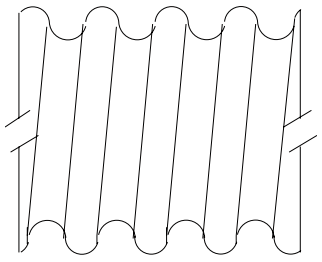




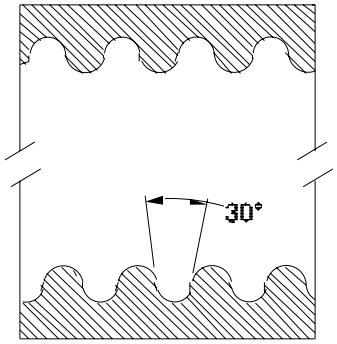
Nut

Tube OD (inches)	ØA Thread ID	ØB	Threads per inch
1	1.44	2.01	6
1½	2.22	2.91	6
2	2.62	3.31	6
2½	3.21	3.94	6
3	3.72	4.49	6
4	4.72	5.43	4

SMS Thread Form (DIN 405/1)



male thread



female thread

Gasket

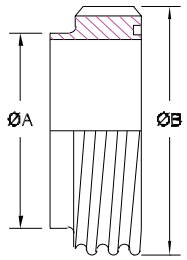
L GASKET

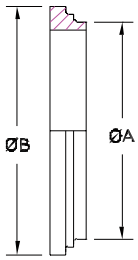
R GASKET

X

Identifying Fittings

Danish Standard Ferrules





Weld Male

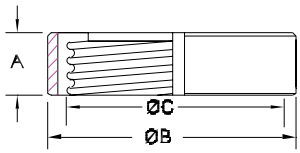
Size (inches)	ØA	ØB
1	1.000	1.732
1½	1.511	2.283
2	2.024	2.835
2½	2.516	3.386
3	3.008	3.937
4	4.018	5.118

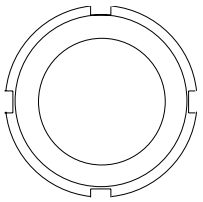
Weld Liners

Tube OD (inches)	ØA	ØB
1	1.457	1.496
1½	1.850	1.969
2	2.244	1.969
2½	2.638	2.461
3	3.031	2.461
4	3.543	2.461

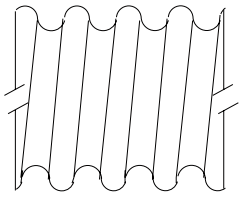
Round Nut

Size (inches)	A	ØB	ØC	Threads per inch
1	0.787	2.244	1.732	6
1½	0.787	2.795	2.283	6
2	0.787	3.386	2.835	6
2½	0.945	4.055	3.386	6
3	0.984	4.528	3.937	6
4	1.102	5.906	5.118	6

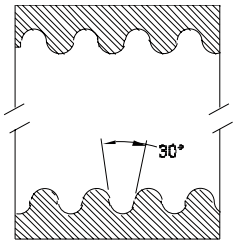




DS Thread Form (DIN 405/1)



male thread

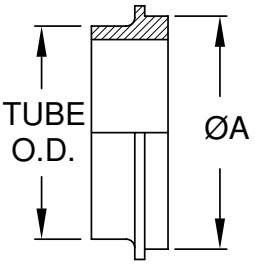


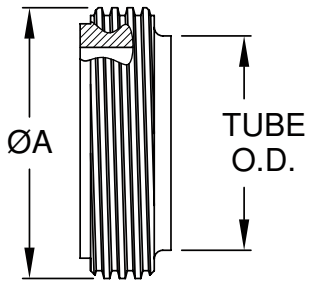
female thread

Gasket

Identifying Fittings

IDF/ISO Couplings





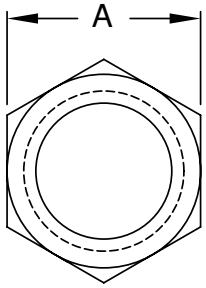
Liners

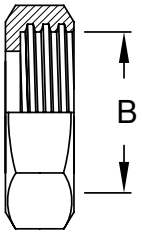
Tube OD (inches)	ØA
1	1.33
1½	1.85
2	2.38
2½	2.91
3	3.44
4	4.75

Males

Tube OD (inches)	ØA
1	1.46
1½	1.99
2	2.53
2½	3.06
3	3.59
4	4.96

IDF Hex Nuts

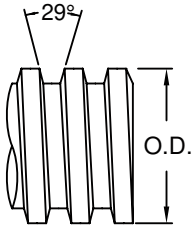




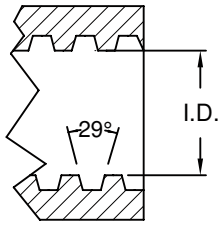
Nut

Tube OD (inches)	ØA Thread ID	B Across flats	Threads per inch
1	1.81	1.35	8
1½	2.36	1.88	8
2	2.95	2.42	8
2½	3.54	2.95	8
3	4.13	3.48	8
4	5.24	4.81	6

IDF Thread Form (same as Acme thread form)



male thread



female thread

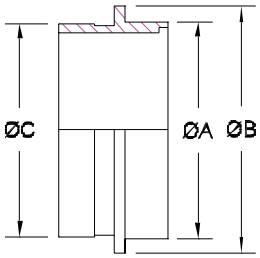
Gaskets

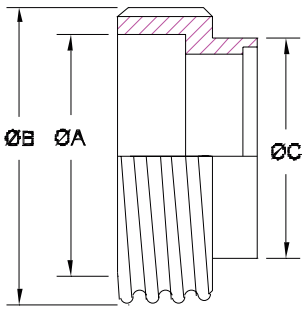
BS4825

ISO

Identifying Fittings

Wine Macon Ferrules





Weld Liner

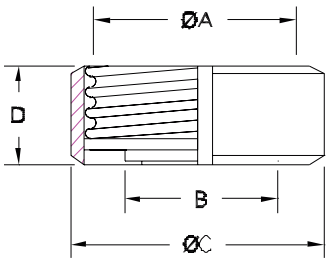
Size	ØA	ØB	ØC
DN 43	1.823	1.969	1.752
DN 53	2.217	2.461	2.146
DN 63	2.610	2.894	2.539
DN 73	3.004	3.346	2.933
DN 83	3.398	3.780	3.327
DN 103	4.252	4.685	4.114

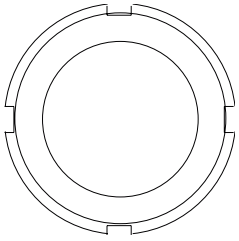
Weld Male

Size	ØA	ØB	ØC
DN 43	1.772	M55	1.823
DN 53	2.165	M67	2.228
DN 63	2.598	M79	2.610
DN 73	2.992	M90	3.004
DN 83	3.386	M102	3.280
DN 103	4.173	M125	4.102

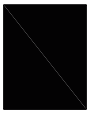
Nuts 4-Slots

Size	ØA	ØB	ØC	ØD	Thread per Inch
DN 43	M55	1.850	2.756	0.984	3"
DN 53	M67	2.244	3.150	0.984	3"
DN 63	M79	2.630	3.740	0.984	3½"
DN 73	M90	3.031	4.173	0.984	3½"
DN 83	M102	3.543	4.646	0.984	4"
DN 103	M125	4.409	5.472	1.024	4"



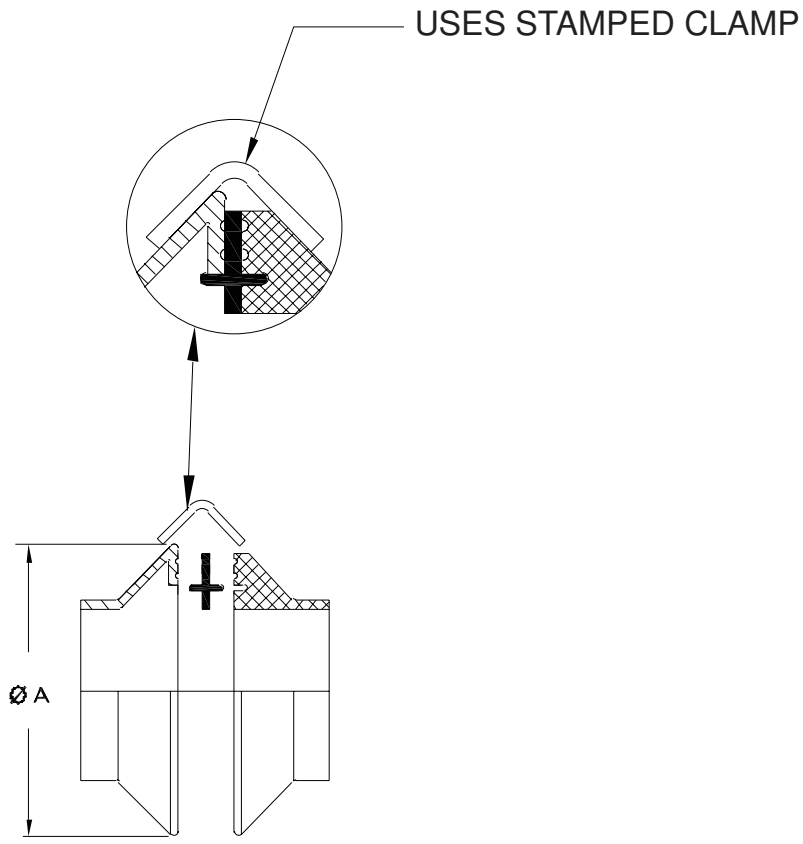


Gasket



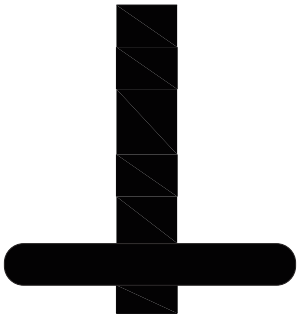
Identifying Fittings

Garolla Fitting



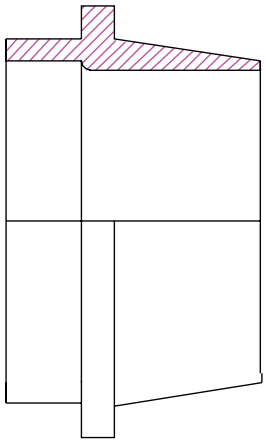
DIN	ØA
40	2.64
50	3.07
60	3.46
70	3.86
80	4.25
100	5.00
120	6.22
150	7.40

Gasket

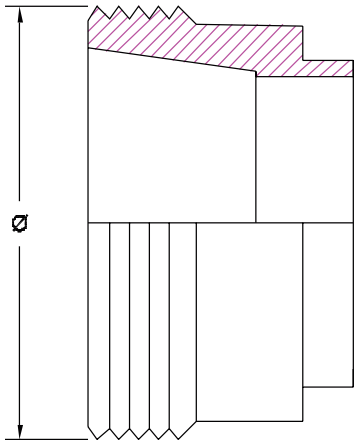


Identifying Fittings

Oenological Threaded Fittings



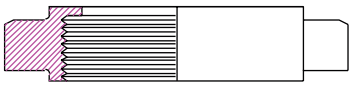
Male End

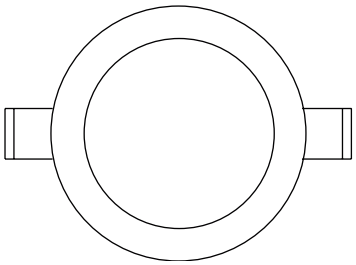


Female End

DIN	Ø
25	1.311
30	1.504
35	1.705
40	2.098
50	2.016

Nut

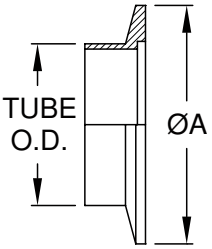




Identifying Fittings

Vacuum Flanges

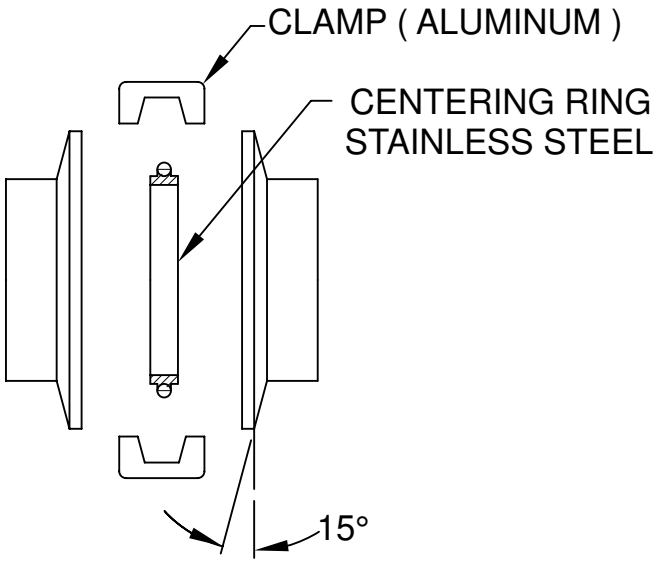
both halves of a jointed connection are symmetrical



clamp ferrule

Tube OD (inches)	ØA
½	1.18
¾	1.18
1	1.57
1½	2.16
2	2.95

Clamp Connection



Gasket

Austenitic Stainless Steel Chemistry

Element	C	Mn	P	S	Si	Cr	Ni	Mo
304[1]	0.08	2.00	0.045	0.030	1.00	18.0-20.0	8.0-10.0	
316L[1]	0.03	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.0-3.0
316L BPE[2]	0.03	2.00	0.045	0.05 - 0.17	1.00	16.0-18.0	10.0-14.0	2.0-3.0
CF-8[3]	0.08	1.50	0.04	0.04	2.00	18.0-21.0	8.0-11.0	
CF-8M[3]	0.08	1.50	0.04	0.04	2.00	18.0-21.0	9.0-12.0	2.0-3.0

[1] AISI specifications for wrought material
[2] ASME BPE 2012
[3] ASTM A743
- Percentages are maximums unless a range is specified

Finish Information

BPE Surface Finish Requirements (Table SF-2.4-1)

Surface designation	Mechanically Polished ID and OD R_a Maximum		Dixon Sanitary High Purity code
	ID µ-in.	OD µ-in	
SF0	no finish requirement	no finish requirement	
SF1	20	32	***PL***
SF2	25	32	
SF3	30	32	
Surface designation	Mechanically Polished OD and Electropolished ID R_a Maximum		
	ID µ-in.	OD µ-in	
SF4	15	32	***PM***
SF5	20	32	
SF6	25	32	

Finish Designations for Tubing and Fittings

Finish Number	Finish Conditions
1	Mill Finish (bright annealed, pickled, sand blast or tumbled)
3	Polished 32R_a inside diameter (ID) only
5	Polished 150 grit outside diameter (OD) only
7	Polished 32R_a outside/inside diameter (OD/ID)
3A	Polished 150 grit outside (OD), 32R_a inside diameter (ID)

Glossary of Terms

#3 finish Used on stainless steel tubing, only the ID is polished to sanitary standards. The OD is unpolished.

#4 dairy finish Used on any surface, stainless steel is polished to sanitary standards, with 180 grit abrasives.

#5 finish Used on stainless steel tubing, only the OD is polished. The ID is unpolished.

#7 finish Used on stainless steel tubing polished to sanitary standards inside and outside.

3A Symbol Introduced in 1956, the 3A Symbol is a registered trademark used to identify equipment that meets 3A Sanitary Standards for design and fabrication. The 3A Symbol on dairy and food equipment serves three important purposes:

1. assures processors that equipment conforms to sanitary standards
2. provides accepted criteria to equipment manufacturers for sanitary design
3. establishes guidelines for uniform evaluation and compliance by sanitarians

3A Finish Product surface finish equivalent to 150 grit or better OD, and 180 grit or better ID. A maximum of R_a 32 microinch (0.8 micron) is indicated.

ABS (Acrylicnitrile-butadiene-styrene) a thermoplastic resin with an excellent resistance to acids, bases, salts and some solvents. It is heat resistant to 230°F.

ANSI American National Standards Institute, Inc.

ASME American Society of Mechanical Engineers

ASTM American Society for Testing and Materials

Acme Thread A flat grooved helical ridge on a nut or bolt. This typically has a 29° included angle. Used on bevel seat and John Perry fittings

Anneal Stress relief of stainless steel, a heat treatment to remove the stresses generated in forming and welding operations. This heat treatment is best done under controlled atmosphere or vacuum to maintain the mill finish. The fittings are not quenched, as in solution annealing; this would reintroduce residual stresses. Done correctly, parts are processed to provide minimum residual stresses and full corrosion resistance.

Bevel Seat Ferrules A set of plain (male) and externally threaded (female) bushings with matching bevel angles that produce a leak-proof seal when connected with a hex union nut. The threads used are Acme form.

Bright Anneal Annealing in a protective medium to prevent discoloration of the surface.

Bright Annealed Finish A silvery satin surface, approximately the mill finish of stainless steel.

Buna Synthetic rubber, a copolymer of acrylonitrile and butadiene

Burst Pressure The pressure at which rupture occurs.

Clamp A device used to join mechanical parts, fittings, ensuring a quick leak-proof connection and enabling easy take down.

Cold Flow Continued deformation or movement of rubber or PTFE under stress. The new set is not reversible.

Glossary of Terms

Compression Set The deformation that remains in rubber or PTFE after it has been subjected to and released from stress such as a clamp. The longer the stress is maintained the more definitive the deformation.

Durometer An instrument for measuring the hardness of rubber by resistance to penetration

Durometer Hardness A numerical value which indicates the resistance to indentation of the blunt indentor of the durometer.

EPDM Ethylene propylene diene monome, a synthetic rubber

Elastomer Any of various elastic substances resembling rubber.

Electropolishing A controlled electrochemical process utilizing acid electrolyte, DC current, anode and cathode to smooth the surface by removal of metal.

Encapsulation The enclosing of material by an encapsulant for protective purposes. In a ball valve the ball is encased in PTFE, preventing the material flowing through the valve from getting behind the ball causing contamination problems.

Flow Coefficient (C_v) C_v the flow rate in U.S. gallons of water (at 60°F) that will pass through the valve in one minute with a differential pressure across the valve of 1 PSI.

Ferrule A bushing used to secure a tube joint. A special bushing designed for welding to the end of tubing. Two ferrules and a gasket make a leak-proof connection when used with the complimentary clamps.

Fitting A small part of an apparatus (may be detachable).

Fluorocarbon Synthetic rubber and fluoropolymer elastomer known as FKM.

Friction Loss The part of the total loss that occurs as the fluid flows through straight pipe.

Hex Union Nut An internally acme-threaded six-sided connector used to assemble bevel seat fittings.

ISO5211 International standard for actuator and valve interface

Internal Expansion (IX) A plug (or bullet) is pulled through a stem or a set of blades (fingers) increase the stem ID to the plug OD or a predetermined setting when using expansion blades (fingers). This forces the stem serrations into the hose tube and the hose cover into the serrations of the ferrule.

Laminar Flow The smooth flow of a viscous liquid through a tube or pipe. In that case, the velocity of flow varies from zero at the walls to a maximum along the centerline of the vessel.

Maximum-Shut-Off Pressure The pressure of the media flowing into the valve against which the valve will have to close.

Media The material flowing through the valve.

Modulating Service Proportional positioning of a valve between the open and closed position. Used for flow control processes.

Glossary of Terms

MTR Material Test Report

Neoprene Synthetic rubber, chemically and structurally similar to natural rubber

Nominal Size A dimensional value assigned for the purpose of convenient designation. Used for pipe sizes.

On-Off Service When the valve is being used to start or stop flow by being cycled to the full open or full closed position.

Operating Pressure The pressure at which system functions. Also known as working pressure.

Polish To make smooth and shiny by rubbing. Fittings may be machine polished to 180 grit finish. Polish is ID, OD, or both per customer request.

Polyproylene A lightweight synthetic plastic

Pressure The force per unit area applied on a surface in a direction perpendicular to that surface.

PSI Pounds per square inch

PSIG Pounds per square inch gauge

PTFE Tetrafluoroethylene is a high performance thermo plastic polymer that has excellent dielectric strength, chemical and temperature resistance.

Santoprene A thermoplastic elastomer, a rubber-like material that complies to FDA requirements

Service Temperature The maximum and minimum temperature of the media in a system.

Silicone Dimethyl silicone, a synthetic rubber

Sintering Heat process in which powdered metal particles are heated to near melting point, fusing the metal granules together.

Stem Torque The force required at the valve stem to open or close the valve against system pressure and service conditions.

Supply Pressure The plant air supply pressure available to operate a pneumatic actuator. (plant air)

Surge Also known as water hammer. A rapid rise or decrease of internal pressure. Surge conditions occur for various reasons, typically, but not limited to: start and stop sequences.

Torque A twisting or turning force. Usually measured in inch pounds (in-lbs) or foot pounds (ft-lbs)/(force through a distance).

Tube A hollow cylinder especially one that conveys a fluid. For sanitary applications a thin wall is implied.

Tube Fitting A length of tubing formed into a usable shape either welded to an apparatus or welded to ferrules for use in an apparatus.

Tubing A piece or length of tube.

Glossary of Terms

Tumble Polish Surface A uniform finish applied by vibratory equipment to stainless steel, varying from matte grey to bright, depending on media used. This process may cause work hardening on the surfaces of stainless steel.

Turbulent Flow Irregular flow that is characterized by tiny whirlpool regions. The velocity of this fluid is definitely not constant at every point.

Velocity Head (h_v) The energy of a liquid as a result of its motion at some velocity V. It is the equivalent head in feet through which the water would have to fall to acquire the same velocity, or in other words, the head necessary to accelerate the water. Velocity head can be calculated from the following formula:

$$h_v = \frac{V^2}{2g}$$

Where g = 32.3 ft/second
V = liquid velocity in feet per second

The velocity head is usually insignificant and can be ignored in most high head systems. However, it can be a large factor and must be considered in low head systems

WOG Water, Oil, Gas. Pressure rating for valves handling these products. This does not include steam.

Welding Join two (or more) pieces of material by applying heat to produce a localized union through fusion across the interface. For sanitary fittings, a ferrule is attached to the ends of a tube fitting by TIG welding without the addition of filler metal.

Work (Strain) Hardening An increase in hardness and strength caused by plastic deformation at temperatures below the annealing ranges.

Trademarks

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