

## LIMITED WARRANTY

Bradford, a division of Dixon Valve and Coupling Company, (herein called "Bradford") warrants the products described herein, and manufactured by Bradford to be free from defects in material and workmanship for a period of one (1) year from date of shipment by Bradford under normal use and service. It's sole obligation under this warranty being limited to repairing or replacing, as hereinafter provided, at its option any product found to Bradford's satisfaction to be defective upon examination by it, provided that such product shall be returned for inspection to Bradford within three (3) months after discovery of the defect. The repair or replacement of defective products will be made without charge for parts or labor. This warranty shall not apply to: (a) parts or products not manufactured exclusively for Bradford, the warranty of such items being limited to the actual warranty extended to Bradford by its supplier; (b) any product that has been subject to abuse, negligence, accident, or misapplication; (c) any product altered or repaired by others than Bradford; and (d) to normal maintenance services and the replacement of service items (such as gaskets and seats) made in connection with such services. To the extent permitted by State law, this limited warranty shall extend only to the buyer and any other person reasonably expected to use or consume the goods who is injured in person by any breach of the warranty. No action may be brought against Bradford for an alleged breach of warranty unless such action is instituted within one (1) year from the date the cause of action accrues. This limited warranty shall be construed and enforced to the fullest extent allowable by applicable State law.

**OTHER THAN THE OBLIGATION OF BRADFORD SET FORTH HEREIN, BRADFORD DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY OTHER OBLIGATION OR LIABILITY. THE FOREGOING CONSTITUTES BRADFORD'S SOLE OBLIGATION WITH RESPECT TO DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL, RESULTING FROM THE USE OR PERFORMANCE OF THE PRODUCT.**

**Some products and sizes may be discontinued when stock is depleted, or may require a minimum quantity for ordering.**

**NOTE:** Reasonable care has been taken in preparing this catalog. Bradford, a division of Dixon Valve & Coupling Company, reserves the right to make corrections and any dimensional changes.

# For the right large material fitting







Just because your applications are on a larger scale than most does not mean you should tolerate lower quality, or have to wait for delivery. Just like everyone else, you need affordable parts and quick delivery to hold down inventory cost.

That's why Bradford offers 6", 8", 10" and 12" materials; clamp, weld, I-line, tube hangers, and valves in 304 and 316L materials. These large material fittings are available from our thirteen distribution centers - so we can ship the parts you need within twenty-four hours.

Lg. Mat.

## Bradford quality: maintaining the standard

The  Sanitary Standard was created by the dairy industry as a voluntary benchmark for product performance and sanitary safety. The standard, collaboratively developed by a group of processors, suppliers, regulatory officials and sanitation specialists, is generally accepted by federal, state and local regulatory authorities.

Our products have earned the  symbol, which requires an annual assessment to make certain each product conforms in all respects to the published standard. Bradford clamp fittings carrying the  symbol conform to the  sanitary standards for fittings for milk and milk products (#63-04).

Bradford is proud to be a participant in the  program.



# connect with Bradford

## Part Number Descriptions

- 2 = Elbow (unpolished, polished, clamp, etc. 90, 45, U-bend etc)
- 7 = Tee (unpolished, polished, clamp, reducing, etc.)
- 9 = Cross (unpolished, polished, clamp, reducing, etc.)
- 13 = Clamp (single pin, double pin, three segment, bolted, I-line, lightweight, etc.)
- 14 = Ferrule (short, long, auto weld, tank, roll on, hose adapter)
- 15 = Ferrule female (short, long, tank, roll-on, hose adapter)
- 16 = End cap (clamp, weld, I-line, bevel, etc.)
- 17 = Adapter (bevel to clamp, I-line to clamp, etc.)
- 21 = Male adapter (clamp to MPT)
- 22 = Female adapter (clamp to FPT)
- 23 = Thermometer (bevel, clamp, etc.)
- 28 = Y or Lateral (unpolished, polished, clamp, reducing, etc.)
- 31 = Concentric Reducer (unpolished, polished, clamp, etc.)
- 32 = Eccentric Reducer (unpolished, polished, clamp)
- 40 = Gasket (1" and above)
- 42 = Gasket (1/2" and 3/4")

## Product Specifications

### Size range:

- 6" - 12" O.D. (600-1200)

### Materials:

- G = 304
- R = 316L

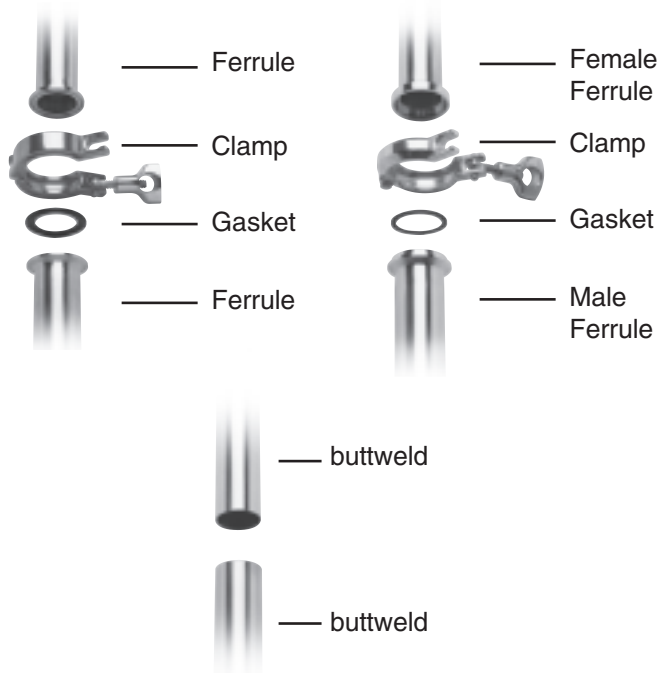
### Finish:

- No. 7 - polished ID and OD
- No. 5 - polished OD only
- No. 3 - polished ID only
- No. 1 - unpolished

*Some items may not be in stock. Call for price and availability. If your part is not listed, call us; we may still be able to get it for you.*

Eq. Mat.

## A Complete Clamp, I-Line and Buttweld Connection



## Ordering Instructions

### Specify:

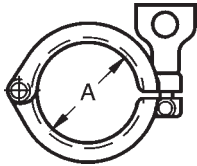
- quantity
- size 600 - 1200 (6" - 12")
- product description and Bradford part number
- polish requirements
- ship to address

### Ordering Example:

<u>Qty.</u>	<u>Description</u>	<u>Part No.</u>
5 ea.	6" 90° Elbow clamp	B2CMP-R600

## Clamps

### Single Pin Heavy Duty Clamps - 13MHHM



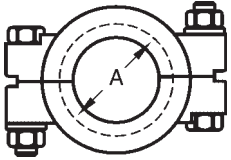
Tube O.D.	Service Pressure Rating @ 70°F *	Service Pressure Rating @ 250°F *	Dimension A	Part Number
6"	150	75	6.695	13MHHM600
8"	100	50	8.695	13MHHM800
* 10"	100	50	10.708	13MHHM-DP1000
* 12"	75	50	12.740	13MHHM-3P1200

\* 10" is a double pin design

\* 12" is a three segment design

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

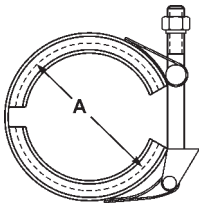
### Bolted Clamps - 13MHP



Tube O.D.	Service Pressure Rating @ 70°F *	Service Pressure Rating @ 250°F *	Dimension A	Part Number
6"	300	200	6.695	13MHP600
8"	250	150	8.695	13MHP800
10"	200	125	10.740	13MHP1000
12"	150	100	12.740	13MHP1200

*Bronze nuts tightened to 20 ft. lb. of torque.*

### T-bolt Clamps - 13MO



Tube O.D.	Service Pressure Rating @ 70°F *	Service Pressure Rating @ 250°F *	Dimension A	Part Number
6"	75	50	6.690	13MO600
8"	50	40	8.690	13MO800
10"	40	30	10.690	13MO1000
12"	30	25	12.690	13MO1200

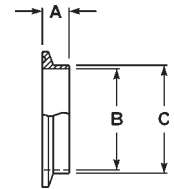
8", 10" and 12" are 2 bolt designs

*6" nuts tightened to 40 in. lbs of torque.*

*8" - 12" tightened to 50 in. lbs of torque.*

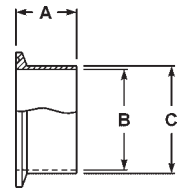
## Clamp Ferrules

### Short Welding Ferrules - 14WMP



Tube O.D.	Dimensions			304	316L
	A	B	C	Part Number	Part Number
6"	.875	5.782	6.000	14WMP-G600	14WMP-R600
8"	.875	7.782	8.000	14WMP-G800	14WMP-R800
10"	.875	9.760	10.000	14WMP-G1000	14WMP-R1000
12"	.875	11.760	12.000	14WMP-G1200	14WMP-R1200

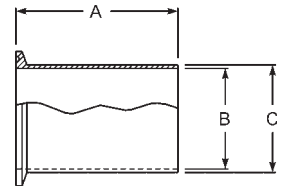
### Buttweld Ferrules - L14AM7



Tube O.D.	Dimensions			304	316L
	A	B	C	Part Number	Part Number
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

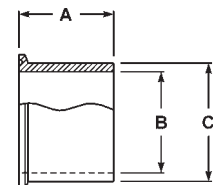
Eq. Mat.

### Tank Weld Ferrules (light duty) - 14WLMP



Tube O.D.	Dimensions			304	316L
	A	B	C	Part Number	Part Number
6"	6.000	5.782	6.000	14WLMP-G600	14WLMP-R600
8"	6.000	7.760	8.000	14WLMP-G800	14WLMP-R800
10"	6.000	9.782	10.000	14WLMP-G1000	14WLMP-R1000
12"	6.000	11.760	12.000	14WLMP-G1200	14WLMP-R1200

### Tank Weld Ferrules (heavy wall) - 14MPW

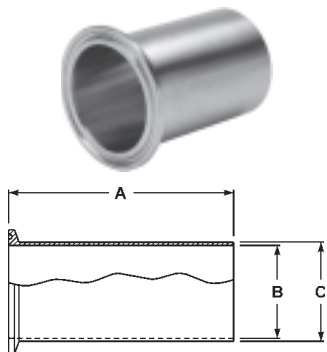


Tube O.D.	Dimensions			Part Number
	A	B	C	
6"	2.500	5.758	6.192	14MPW-R600
8"	2.500	7.758	8.192	14MPW-R800

- certified to ASME SA312
- only available in 316L

## Clamp Adapters

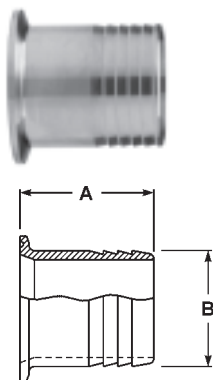
### Tygon Hose Adapters - 14MPHT



Tube O.D.	Dimensions			316L Part Number
	A	B	C	
6"	6.000	5.782	6.000	14MPHT-R600

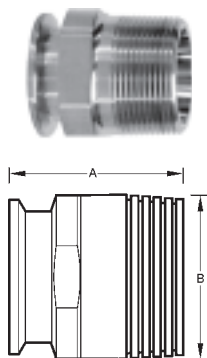
Only available in 316L

### Rubber Hose Adapters - 14MPHR



Tube O.D.	Dimensions		304 Part Number	316L Part Number
	A	B		
6"	3.406	6.000	14MPHR-G600	14MPHR-R600
8"	3.406	8.000	14MPHR-G800	14MPHR-R800

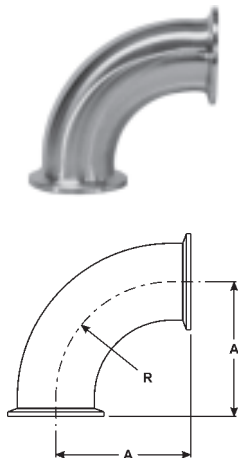
### Male NPT x Clamp Adapters - 21MP



Tube O.D.	Dimensions		304 Part Number	316L Part Number
	A	B		
6"	4.500	1.946	21MP-G600	21MP-R600

## Clamp Elbows

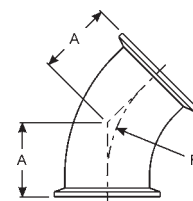
### 90° Elbow - B2CMP



Tube O.D.	Dimensions		304 Part Number	316L Part Number
	A	R		
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	B2CMP-R1000
12"	18.875	18.000	B2CMP-G1200	B2CMP-R1200

## Clamp Elbows

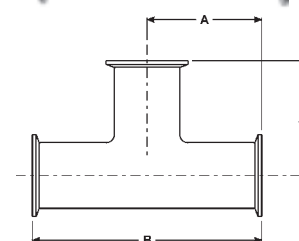
### 45° Elbow - B2KMP



Tube O.D.	Dimensions		304 Part Number	316L Part Number
	A	R		
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	B2KMP-R1000
12"	8.375	18.000	B2KMP-G1200	B2KMP-R1200

## Clamp Tees

### Tee - B7MP

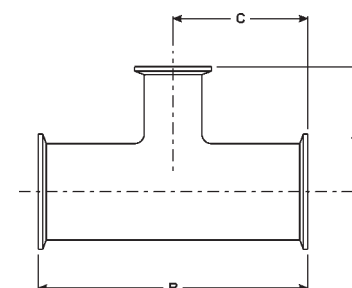


Tube O.D.	Dimensions		Nom. Wall	304 Part Number	316L Part Number
	A	B			
6"	6.500	13.000	.109	B7MP-G600	B7MP-R600
8"	7.875	15.750	.120	B7MP-G800	B7MP-R800
10"	9.375	18.750	.109	B7MP-G1000	B7MP-R1000
12"	10.875	21.750	.120	B7MP-G1200	B7MP-R1200

Lg. Mat.

## Clamp Reducing Tees

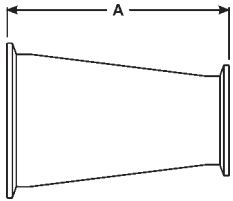
### Reducing Tees - B7RMP



Tube O.D.	Dimensions			304 Part Number	316L Part Number
	A	B	C		
6" x 2"	6.500	5.000	13.000	B7RMP-G600200	B7RMP-R600200
6" x 3"	6.500	5.750	13.000	B7RMP-G600300	B7RMP-R600300
6" x 4"	6.500	6.000	13.000	B7RMP-G600400	B7RMP-R600400
8" x 4"	7.875	7.000	15.750	B7RMP-G800400	B7RMP-R800400
8" x 6"	7.875	7.500	15.750	B7RMP-G800600	B7RMP-R800600
10" x 6"	9.375	8.500	18.750	B7RMP-G1000600	B7RMP-R1000600
10" x 8"	9.375	8.875	18.750	B7RMP-G1000800	B7RMP-R1000800
12" x 8"	10.875	9.875	21.750	B7RMP-G1200800	B7RMP-R1200800
12" x 10"	10.875	10.375	21.750	B7RMP-G12001000	B7RMP-R12001000

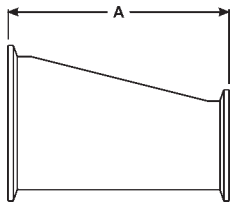
## Clamp Reducers

### Concentric Reducers - *B3114MP*



Tube O.D.	Dimension A	304 Part Number	316L Part Number
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
10" x 6"	8.750	B3114MP-G1000600	B3114MP-R1000600
10" x 8"	8.750	B3114MP-G1000800	B3114MP-R1000800
12" x 8"	9.750	B3114MP-G1200800	B3114MP-R1200800
12" x 10"	9.750	B3114MP-G1200100	B3114MP-R1200100

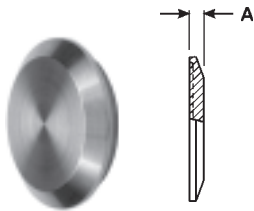
### Eccentric Reducers - *B3214MP*



Tube O.D.	Dimension A	304 Part Number	316L Part Number
6" x 2"	6.875	B3214MP-G600200	B3214MP-R600200
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
10" x 6"	8.750	B3214MP-G1000600	B3214MP-R1000600
10" x 8"	8.750	B3214MP-G1000800	B3214MP-R1000800
12" x 8"	9.750	B3214MP-G1200800	B3214MP-R1200800
12" x 10"	9.750	B3214MP-G1200100	B3214MP-R1200100

### Clamp Caps

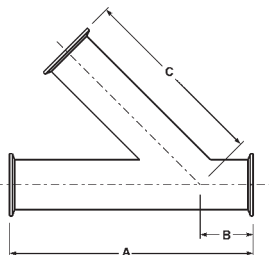
#### Solid End Cap - *16AMP*



Tube O.D.	Dimension A	304 Part Number	316L Part Number
6"	0.437	16AMP-G600	16AMP-R600
8"	0.437	16AMP-G800	16AMP-R800
10"	0.437	16AMP-G1000	16AMP-R1000
12"	0.437	16AMP-G1200	16AMP-R1200

### Clamp Lateral

#### Lateral - *B28AMP*



Tube O.D.	Dimensions			316L Part Number
	A	B	C	
6"	19.750	4.375	15.375	B28AMP-R600

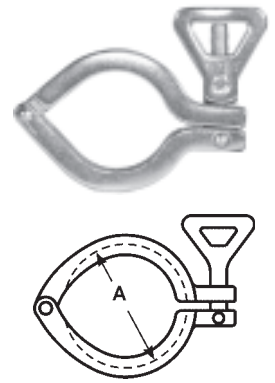


## I-Line Clamps

### Heavy Duty Clamps - 13ILH

Tube O.D.	Service Pressure Rating @ 70°F *	Service Pressure Rating @ 250°F *	Dimension A	Part Number	304 Price
6"	150	100	7.689	13ILH600	
8"	125	75	9.689	13ILH800	

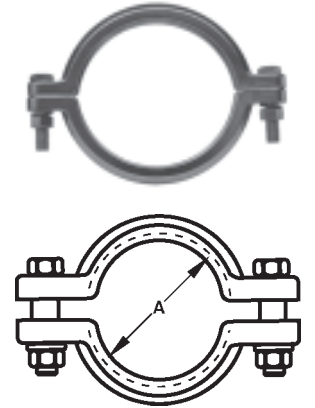
Wing nuts tightened to 20 in. lb. of torque.



### Bolted Clamps - 13ILB

Tube O.D.	Service Pressure Rating @ 70°F *	Service Pressure Rating @ 250°F *	Dimension A	Part Number
6"	300	200	7.689	13ILB600
8"	250	150	9.689	13ILB800

Nuts tightened to 20 ft. lb. of torque.



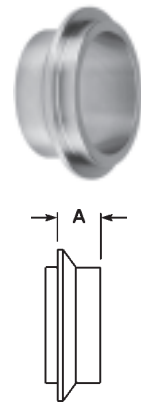
Eq. Mat.

## I-Line Ferrules

### Male Short Ferrule - 14WI

Tube O.D.	Dimension A	316L Part Number
6"	0.940	14WI-R600
8"	0.940	14WI-R800

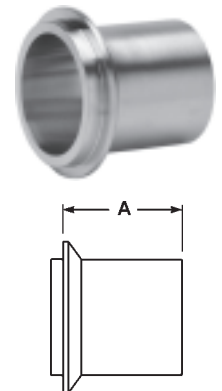
Only available in 316L



### Male Long Ferrule - 14WLI

Tube O.D.	Dimension A	316L Part Number
6"	2.688	14WLI-R600
8"	2.688	14WLI-R800

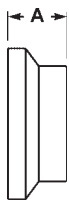
Only available in 316L



## I-Line Ferrules

### Female Short Ferrule - 15WI

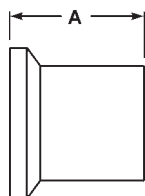
#### Female



Tube O.D.	Dimension A	316L Part Number
6"	1.125	15WI-R600
8"	1.125	15WI-R800

Only available in 316L

### Female Long Ferrule - 15WLI

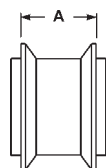


Tube O.D.	Dimension A	316L Part Number
6"	3.000	15WLI-R600
8"	3.000	15WLI-R800

Only available in 316L

## I-Line Adapters

### Male Adapters - 17-14I-14I



Tube O.D.	Dimension A	316L Part Number
6"	1.880	17-14I-14I-R600
8"	1.880	17-14I-14I-R800

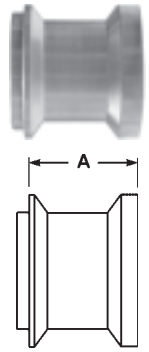
### Male x Clamp Adapters - 17-14I-14MP



Tube O.D.	Dimension A	316L Part Number
6"	1.315	17-14I-14MPR600
8"	1.315	17-14I-14MPR800

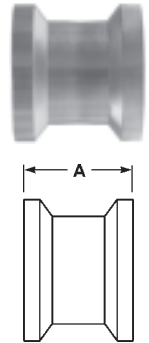
## I-Line Adapters

### Male x Female Adapters - 17-14I-15I



Tube O.D.	Dimension A	316L	
		Part Number	
6"	2.065	17-14I-15I-R600	
8"	2.065	17-14I-15I-R800	

### Female Adapters - 17-15I-15I



Tube O.D.	Dimension A	316L	
		Part Number	
6"	2.250	17-15I-15I-R600	
8"	2.250	17-15I-15I-R800	

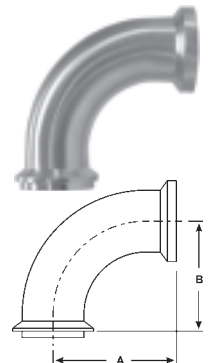
### Female x Clamp Adapters - 17-15I-14MP



Tube O.D.	Dimension A	316L	
		Part Number	
6"	2.000	17-15I-14MP-R600	
8"	2.000	17-15I-14MP-R800	

## I-Line Elbows

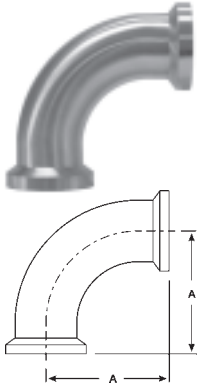
### 90° Male x Female Elbows - B2FI



Tube O.D.	Dimensions		316L Part Number
	A	B	
6"	10.125	9.940	B2FI-R600
8"	13.125	12.940	B2FI-R800

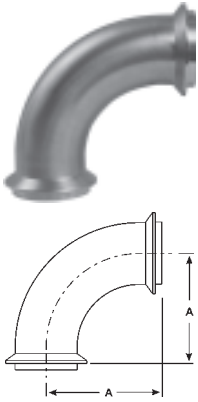
## I-Line Elbows

### 90° Female Elbows - *B2CI*



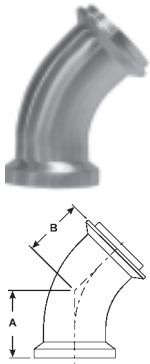
Tube O.D.	Dimension A	316L Part Number
6"	10.125	B2CI-R600
8"	13.125	B2CI-R800

### 90° Male Elbows - *B2EI*



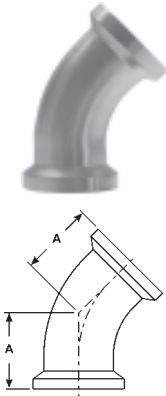
Tube O.D.	Dimension A	316L Part Number
6"	9.940	B2EI-R600
8"	12.940	B2EI-R800

### 45° Female x Male Elbows - *B2PI*



Tube O.D.	Dimensions		316L Part Number
	A	B	
6"	4.875	4.690	B2PI-R600
8"	6.125	5.940	B2PI-R800

### 45° Female Elbows - *B2KI*

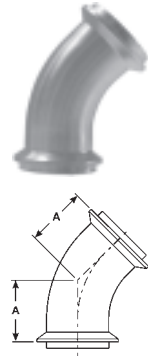


Tube O.D.	Dimension A	316L Part Number
6"	4.875	B2KI-R600
8"	6.125	B2KI-R800

## I-Line Elbows

### 45° Male Elbows - B2HI

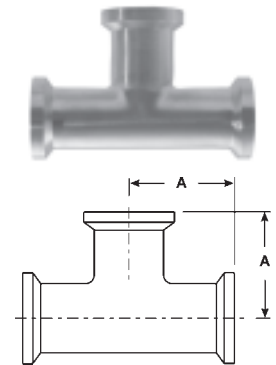
Tube O.D.	Dimension A	316L Part Number
6"	4.690	B2HI-R600
8"	5.940	B2HI-R800



## I-Line Tees

### Female Tee - B7I

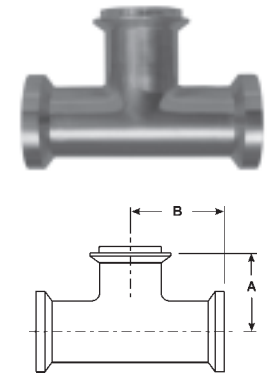
Tube O.D.	Dimension A	316L Part Number
6"	6.750	B7I-R600
8"	8.125	B7I-R800



Eq. Mat.

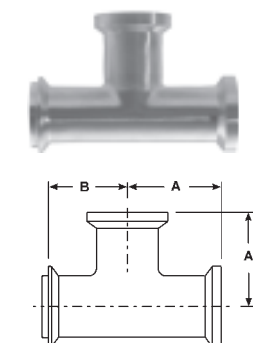
### Female Run x Male Branch Tee - B7AI

Tube O.D.	Dimensions		316L Part Number
	A	B	
6"	6.565	6.750	B7AI-R600
8"	7.940	8.125	B7AI-R800



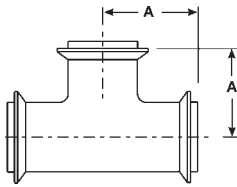
### Male x Female Run x Female Branch Tee - B7BI

Tube O.D.	Dimensions		316L Part Number
	A	B	
6"	6.750	6.565	B7BI-R600
8"	8.125	7.940	B7BI-R800



## I-Line Tees

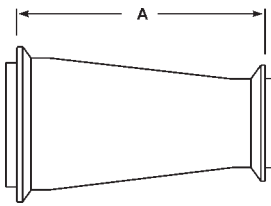
### Male Tee - B7HI



Tube O.D.	Dimension A	316L Part Number
6"	6.565	B7HI-R600
8"	7.940	B7HI-R800

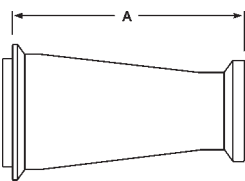
## I-Line Reducers

### Male Concentric Reducers - 3114I14I



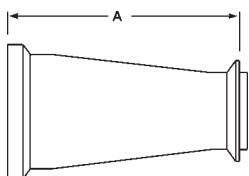
Tube O.D.	Dimension A	316L Part Number
6" x 2"	7.230	3114I14IR600200
6" x 3"	7.348	3114I14IR600300
6" x 4"	7.478	3114I14IR600400
8" x 4"	7.978	3114I14IR800400
8" x 6"	7.880	3114I14IR800600

### Male x Female Concentric Reducers - 3114I15I



Tube O.D.	Dimension A	316L Part Number
6" x 2"	7.480	3114I15IR600200
6" x 3"	7.660	3114I15IR600300
6" x 4"	7.790	3114I15IR600400
8" x 4"	8.160	3114I15IR800400
8" x 6"	8.065	3114I15IR800600

### Female x Male Concentric Reducers - 3115I14I

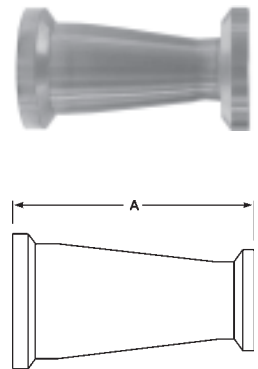


Tube O.D.	Dimension A	316L Part Number
6" x 2"	7.415	3115I14IR600200
6" x 3"	7.531	3115I14IR600300
6" x 4"	7.656	3115I14IR600400
8" x 4"	8.156	3115I14IR800400
8" x 6"	8.065	3115I14IR800600

## I-Line Reducers

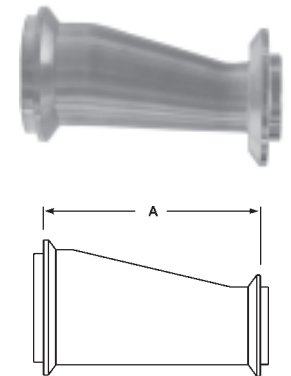
### Female Concentric Reducers - 3115I15I

Tube O.D.	Dimension A	316L Part Number
6" x 2"	7.665	3115I15IR600200
6" x 3"	7.845	3115I15IR600300
6" x 4"	7.975	3115I15IR600400
8" x 4"	8.475	3115I15IR800400
8" x 6"	8.250	3115I15IR800600



### Male Eccentric Reducers - 3214I14I

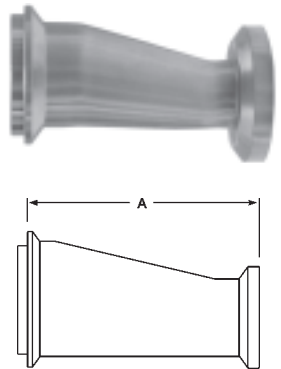
Tube O.D.	Dimension A	316L Part Number
6" x 2"	7.230	3214I14IR600200
6" x 3"	7.348	3214I14IR600300
6" x 4"	7.478	3214I14IR600400
8" x 4"	7.978	3214I14IR800400
8" x 6"	7.880	3214I14IR800600



Lg. Mat.

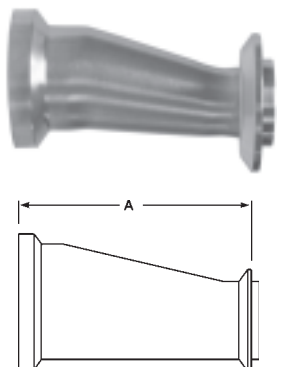
### Male x Female Eccentric Reducers - 3214I15I

Tube O.D.	Dimension A	316L Part Number
6" x 2"	7.480	3214I15IR600200
6" x 3"	7.660	3214I15IR600300
6" x 4"	7.565	3214I15IR600400
8" x 4"	8.065	3214I15IR800400
8" x 6"	8.065	3214I15IR800600



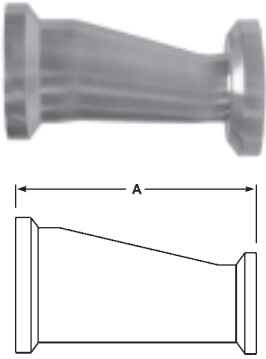
### Female x Male Eccentric Reducers - 3215I14I

Tube O.D.	Dimension A	316L Part Number
6" x 2"	7.415	3215I14IR600200
6" x 3"	7.533	3215I14IR600300
6" x 4"	7.663	3215I14IR600400
8" x 4"	8.163	3215I14IR800400
8" x 6"	8.065	3215I14IR800600



## Reducers

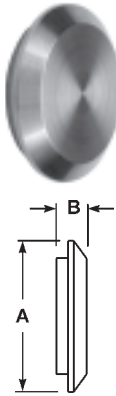
### Female I-Line Eccentric Reducers - 3215I15I



Tube O.D.	Dimension A	316L Part Number
6" x 2"	7.665	3215I15IR600200
6" x 3"	7.845	3215I15IR600300
6" x 4"	7.975	3215I15IR600400
8" x 4"	8.475	3215I15IR800400
8" x 6"	8.250	3215I15IR800600

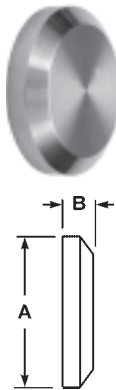
## I-Line Caps

### Solid Male End Caps - 16AI-14I



Tube O.D.	Dimensions		304 Part Number	316L Part Number
	A	B		
6"	7.495	.750	16AI-14IG600	16AI-14I600R
8"	9.495	.880	16AI-14IG800	16AI-14I800R

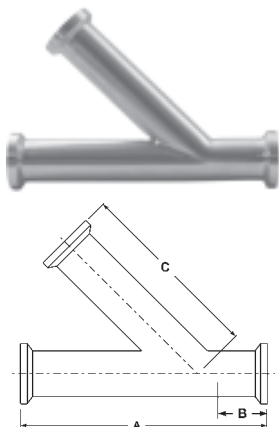
### Solid Female End Caps - 16AI-15I



Tube O.D.	Dimensions		304 Part Number	316L Part Number
	A	B		
6"	7.495	.880	16AI-15IG600	16AI-15I600R
8"	9.495	.880	16AI-15IG800	16AI-15I800R

## I-Line Lateral

### Female Lateral - B28AI



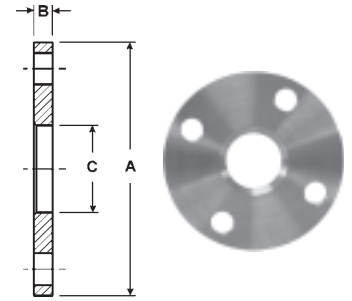
Tube O.D.	Dimensions			316L Part Number
	A	B	C	
6"	20.250	4.625	15.625	B28AI-R600



## Flanges

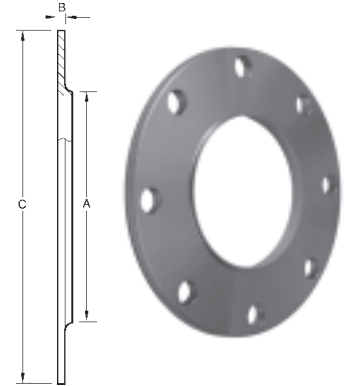
### Tube Flanges - *B38SL*

Tube O.D.	Dimensions			No. & Dia. Bolt Holes	Bolt Circle	Part Number
	A	B	C			
6"	11.000	.562	6.063	8/.875	9.500	B38SL-R600
8"	13.500	.687	8.063	8/.875	11.750	B38SL-R800
10"	16.000	.687	10.063	12/1.00	14.125	B38SL-R1000



### Weld Neck Flanges- *B38W* **New!**

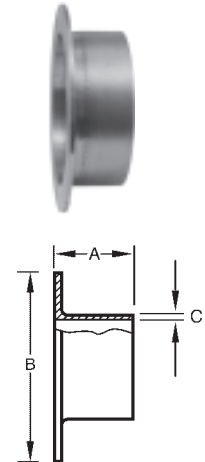
Tube O.D.	Dimensions			316L Part Number
	A	B	C	
6"	6.000	.500	11.000	B38W-R600
8"	8.000	.500	13.000	B38W-R800



### Welding Ends

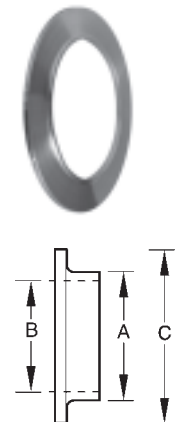
#### Stub Ends - *B14VB* **New!**

Tube O.D.	Dimensions			Part Number
	A	B	C	
6"	3.000	8.500	.218	B14VB-R600
8"	3.000	10.625	.218	B14VB-R800
10"	3.500	12.450	.268	B14VB-R1000



### Stub Bases- *B14UB* **New!**

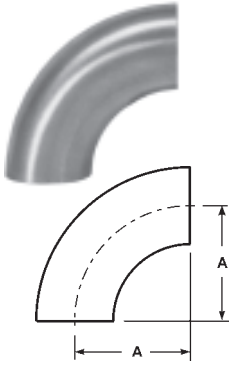
Tube O.D.	Dimensions			316L Part Number
	A	B	C	
6"	6.000	5.782	8.500	B14UB-R600
8"	8.000	7.782	10.625	B14UB-R800



Eq. Mat.

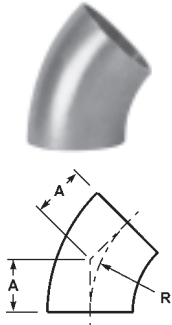
## Buttweld Elbows

### 90° Short Elbows - B2WCL



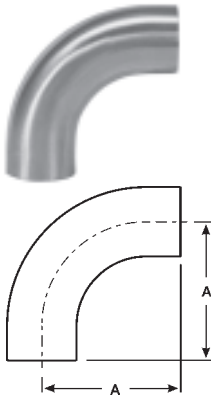
Tube O.D.	Dim. A	304 Unpolished Part Number	304 Polished Part Number	316L Unpolished Part Number	316L Polished Part Number
6"	9.000	B2WCL-G600U	B2WCL-G600P	B2WCL-R600U	B2WCL-R600P
8"	12.000	B2WCL-G800U	B2WCL-G800P	B2WCL-R800U	B2WCL-R800P
10"	15.000	B2WCL-G1000U	B2WCL-G1000P	B2WCL-R1000U	B2WCL-R1000P
12"	18.000	B2WCL-G1200U	B2WCL-G1200P	B2WCL-R1200U	B2WCL-R1200P

### 45° Short Elbows- B2WK



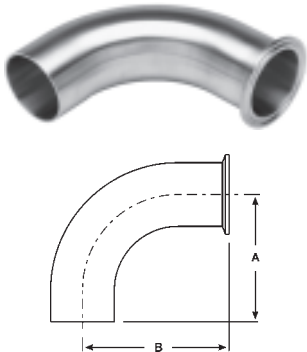
Tube O.D.	Dimensions A	R	304 Unpolished Part Number	304 Polished Part Number	316L Unpolished Part Number	316L Polished Part Number
6"	3.750	9.000	B2WK-G600U	B2WK-G600P	B2WK-R600U	B2WK-R600P
8"	5.000	12.000	B2WK-G800U	B2WK-G800P	B2WK-R800U	B2WK-R800P
10"	6.650	15.000	B2WK-G1000U	B2WK-G1000P	B2WK-R1000U	B2WK-R1000P
12"	7.500	18.000	B2WK-G1200U	B2WK-G1200P	B2WK-R1200U	B2WK-R1200P

### 90° Elbow with Tangents - B2S



Tube O.D.	Dimension A	316L Unpolished Part Number	316L Polished Part Number
6"	11.500	B2S-R600U	B2S-R600P

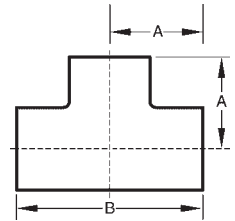
### 90° Clamp x Weld Elbow - B2CM



Tube O.D.	Dimensions A	B	304 Part Number	316L Part Number
6"	11.500	12.375	B2CM-G600	B2CM-R600

## Buttweld Tees

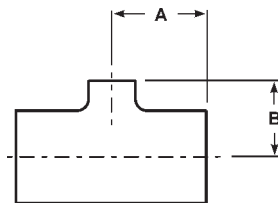
### Tee - B7W



Tube O.D.	Dimensions		Nom. Wall	304 Unpolished Part Number	304 Polished Part Number	316L Unpolished Part Number	316L Polished Part Number
	A	B					
6"	5.625	11.250	.109	B7W-G600U	B7W-G600P	B7W-R600U	B7W-R600P
8"	7.000	14.000	.120	B7W-G800U	B7W-G800P	B7W-R800U	B7W-R800P
10"	8.500	17.000	.109	B7W-G1000U	B7W-G1000P	B7W-R1000U	B7W-R1000P
12"	10.000	20.000	.120	B7W-G1200U	B7W-G1200P	B7W-R1200U	B7W-R1200P

## Buttweld Reducing Tees

### Reducing Tee, Unpolished - B7RWWW



Tube O.D.	Dimensions		Nom. Wall	304 Unpolished Part Number	304 Polished Part Number	316L Unpolished Part Number	316L Polished Part Number
	A	B					
6" x 2"	5.625	4.500	.109	B7RWWW-G600200U	B7RWWW-G600200P	B7RWWW-R600200U	B7RWWW-R600200P
6" x 3"	5.625	4.875	.109	B7RWWW-G600300U	B7RWWW-G600300P	B7RWWW-R600300U	B7RWWW-R600300P
6" x 4"	5.625	5.125	.109	B7RWWW-G600400U	B7RWWW-G600400P	B7RWWW-R600400U	B7RWWW-R600400P
8" x 4"	7.000	6.125	.120	B7RWWW-G800400U	B7RWWW-G800400P	B7RWWW-R800400U	B7RWWW-R800400P
8" x 6"	7.000	6.625	.120	B7RWWW-G800600U	B7RWWW-G800600P	B7RWWW-R800600U	B7RWWW-R800600P
10" x 6"	8.500	7.625	.109	B7RWWW-G100600U	B7RWWW-G100600P	B7RWWW-R100600U	B7RWWW-R100600P
10" x 8"	8.500	8.000	.120	B7RWWW-G100800U	B7RWWW-G100800P	B7RWWW-R100800U	B7RWWW-R100800P
12" x 8"	10.000	9.000	.109	B7RWWW-G120800U	B7RWWW-G120800P	B7RWWW-R120800U	B7RWWW-R120800P
12" x 10"	10.000	9.500	.120	B7RWWW-G120100U	B7RWWW-G120100P	B7RWWW-R120100U	B7RWWW-R120100P

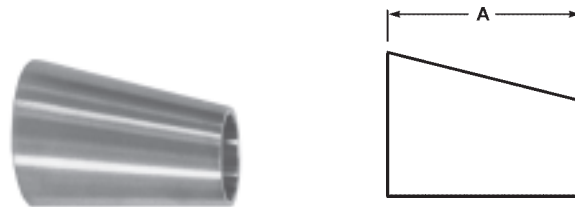
## Buttweld Reducers

### Concentric Reducer - *B31W*



Tube O.D.	Dim. A	Nom. Wall	304 Unpolished Part Number	304 Polished Part Number	316L Unpolished Part Number	316L Polished Part Number
6" x 2"	5.500	.109	B31W-G600200U	B31W-G600200P	B31W-R600200U	B31W-R600200P
6" x 3"	5.500	.109	B31W-G600300U	B31W-G600300P	B31W-R600300U	B31W-R600300P
6" x 4"	5.500	.109	B31W-G600400U	B31W-G600400P	B31W-R600400U	B31W-R600400P
8" x 4"	6.000	.120	B31W-G800400U	B31W-G800400P	B31W-R800400U	B31W-R800400P
8" x 6"	6.000	.120	B31W-G800600U	B31W-G800600P	B31W-R800600U	B31W-R800600P
10" x 6"	7.000	.109	B31W-G1000600U	B31W-G1000600P	B31W-R1000600U	B31W-R1000600P
10" x 8"	7.000	.120	B31W-G1000800U	B31W-G1000800P	B31W-R1000800U	B31W-R1000800P
12" x 8"	8.000	.109	B31W-G1200800U	B31W-G1200800P	B31W-R1200800U	B31W-R1200800P
12" x 10"	8.000	.120	B31W-G12001000U	B31W-G12001000P	B31W-R12001000U	B31W-R12001000P

### Eccentric Reducers - *B32W*

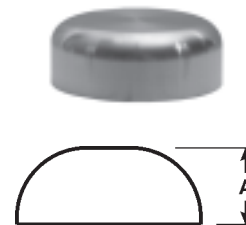


Tube O.D.	Dim. A	Nom. Wall	304 Unpolished Part Number	304 Polished Part Number	316L Unpolished Part Number	316L Polished Part Number
6" x 2"	5.500	.109	B32W-G600200U	B32W-G600200P	B32W-R600200U	B32W-R600200P
6" x 3"	5.500	.109	B32W-G600300U	B32W-G600300P	B32W-R600300U	B32W-R600300P
6" x 4"	5.500	.109	B32W-G600400U	B32W-G600400P	B32W-R600400U	B32W-R600400P
8" x 4"	6.000	.120	B32W-G800400U	B32W-G800400P	B32W-R800400U	B32W-R800400P
8" x 6"	6.000	.120	B32W-G800600U	B32W-G800600P	B32W-R800600U	B32W-R800600P
10" x 6"	7.000	.109	B32W-G1000600U	B32W-G1000600P	B32W-R1000600U	B32W-R1000600P
10" x 8"	7.000	.120	B32W-G1000800U	B32W-G1000800P	B32W-R1000800U	B32W-R1000800P
12" x 8"	8.000	.109	B32W-G1200800U	B32W-G1200800P	B32W-R1200800U	B32W-R1200800P
12" x 10"	8.000	.120	B32W-G12001000U	B32W-G12001000P	B32W-R12001000U	B32W-R12001000P

## Buttweld Caps

### End Cap - B16W

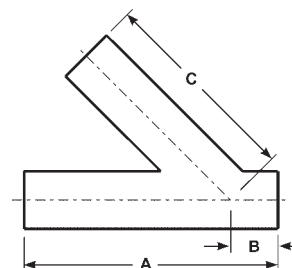
Tube O.D.	Dimension A	Nom. Wall	304 Part Number	316L Part Number
6"	2.250	.109	B16W-G600	B16W-R600
8"	2.500	.120	B16W-G800	B16W-R800
10"	2.750	.109	B16W-G1000	B16W-R1000
12"	3.000	.120	B16W-G1200	B16W-R1200



## Buttweld Lateral

### Lateral - B28WA

Tube O.D.	Dimensions			Nom. Wall	316L Unpolished Part Number	316L Polished Part Number
	A	B	C			
6"	18.000	3.500	14.500	.109	B28WA-R600U	B28WA-R600P

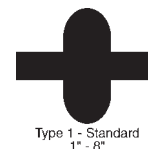


Eq. Mat.

## Gaskets

### Clamp Gaskets - 40MP

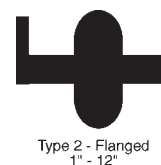
Size	Buna-N, Black Part Number	Silicone, White Part Number	Telfon® Part Number	EPDM Part Number	Viton® Part Number
6"	40MP-U600	40MP-XW600	40MP-G600	40MP-E600	40MP-SFY600
8"	40MP-U800	--	40MP-G800	--	--



- Refer to pages 199-201 for compatibility information

### Clamp Flanged Gaskets - 40MP

Size	Buna-N, Black Part Number	Silicone, White Part Number	EPDM Part Number	Viton® Part Number
6"	40MPF-U600	40MPF-XW600	40MPF-E600	40MPF-SFY600
8"	40MPF-U800	40MPF-XW800	40MPF-E800	40MPF-SFY800
10"	40MPF-U1000	40MPF-XW1000	40MPF-E1000	40MPF-SFY1000
12"	40MPF-U1200	40MPF-XW1200	40MPF-E1200	40MPF-SFY1200



- Refer to pages 199-201 for compatibility information

## Gaskets

### I-line Gaskets - 40I

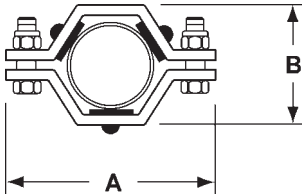


Size	Buna-N Part Number	EPDM Part Number	Telfon® Part Number	Viton® Part Number
6"	40IH600	40IE600	40IT600	40IV600
8"	40IH800	40IE800	40IT800	40IV800

- Refer to pages 199-208 for compatibility information

## Tube Hangers

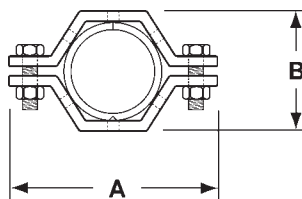
### Hex with grommets - B24RG



Tube O.D.	Dimensions		Part Number
	A	B	
6"	9.250	6.625	B24RG-G600
8"	11.500	8.625	B24RG-G800

Lg. Mat.

### Hex with sleeves - B24PS



Tube O.D.	Dimensions		Part Number
	A	B	
6"	9.250	6.625	B24PS-G600
8"	11.500	8.625	B24PS-G800

# Valves

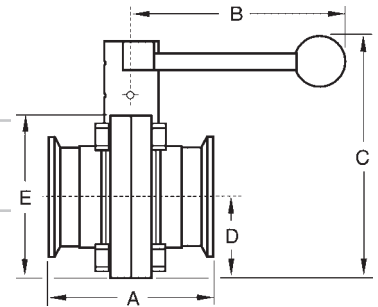
## Butterfly Pull Valve - B5101



Size	Part Number <i>with Silicone seats</i>	Part Number <i>with Viton® seats</i>	Part Number <i>with EPDM seats</i>
6"	B5101S600++-A	B5101V600++-A	B5101E600++-A
8"	----	----	B5101E800++-A

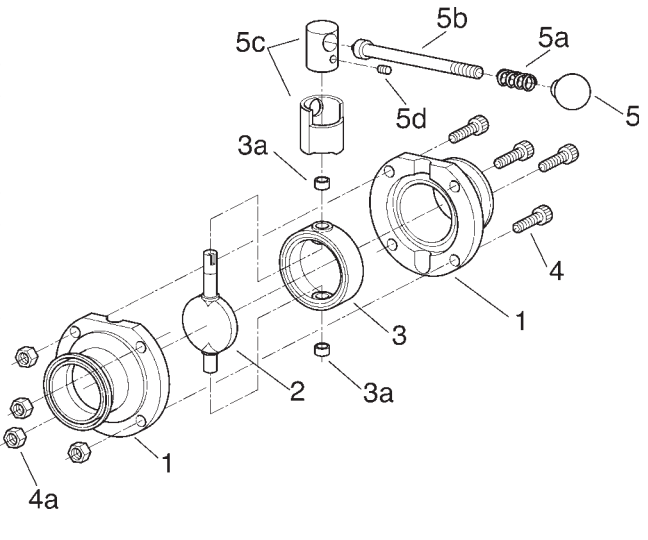
++ = end configuration see ordering instructions page 167

Size	Dimensions						break torque in-lbs.	pressure rating at 68°F
	A	B	C	D	E	width		
6"	5.512	9.500	9.875	4.264	8.240	8.504	1008	60
8"	4.600	11.600	9.800	5.413	10.826	4.567	2300	100



### Materials List for B5101

Item	Part Name	Material	Qty
1	Housing (B5101-HSG+++)	CF8M (316)	2
2	Valve Disc (B5101-DSC+++)	CF8M (316)	1
<i>Repair Kit</i>			
	B5101-RK*+++		
3	Seal	Silicone, Viton® or EPDM	1
3a	Bushings	Polyacetal	2
<i>Bolt and Nut Kit</i>			
	B5101-BN+++		
4	Hex bolts	304	8
4a	Nuts	304	8
<i>Pull Handle Assembly</i>			
	B5101-SH+++		
5	Knob	Polymer	1
5a	Spring	304	1
5b	Handle	CF-8	1
5c	Handle housing	CF-8	2
5d	Hex socket screw	304	1



Parts in kits not sold individually  
 +++ indicated size 6" = 600, 8" = 800  
 \* = V for Viton®  
 E for EPDM  
 S for Silicone

Eq. Mat.