

B5107-Series - Butterfly Valves

Features

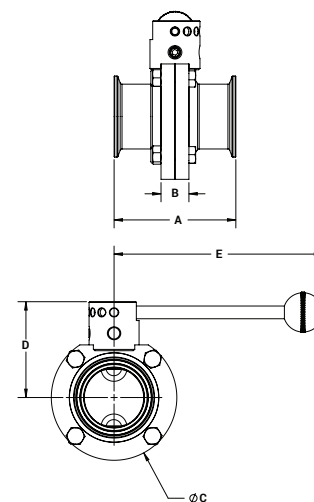
- Robust disc stem
- Bi-directional flow
- Self lubricating seal
- Silicone and EPDM for valve sizes 1/2" to 4" have USP VI certification
- 100% hydraulic tested/inspected
- Various actuation options available

Materials

- Product contact material: 316L stainless steel
- Seat: EPDM, FKM, and silicone
- Seat lubricant: MOLYKOTE 111

Specifications

- Vacuum rating: 0.4 inches Hg at 68°F (20°C)
- Operating temperature range: 15°F to 200°F (-9°C to 93°C)



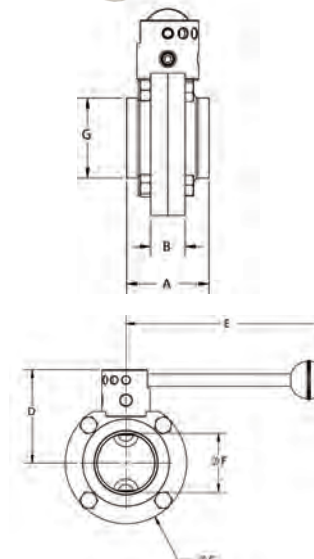
Clamp End with Pull Handle - [A]

Size	Dimensions					316L Stainless Steel with Silicone Seats Part #	316L Stainless Steel with FKM Seats Part #	316L Stainless Steel with EPDM Seats Part #
	A (in)	B (in)	C (in)	D (in)	E (in)			
1/2"	3.50	0.90	3.10	2.60	4.60	B5107S050CC-A	B5107V050CC-A	B5107E050CC-A
3/4"	3.50	0.90	3.10	2.60	4.60	B5107S075CC-A	B5107V075CC-A	B5107E075CC-A
1"	3.50	0.90	3.10	2.60	4.60	B5107S100CC-A	B5107V100CC-A	B5107E100CC-A
1-1/2"	3.50	0.90	3.10	2.60	4.60	B5107S150CC-A	B5107V150CC-A	B5107E150CC-A
2"	3.80	0.90	3.90	3.00	4.60	B5107S200CC-A	B5107V200CC-A	B5107E200CC-A
2-1/2"	3.80	0.90	4.60	3.40	4.60	B5107S250CC-A	B5107V250CC-A	B5107E250CC-A
3"	4.10	1.20	5.20	3.50	6.50	B5107S300CC-A	B5107V300CC-A	B5107E300CC-A
4"	4.80	1.20	6.70	4.30	6.50	B5107S400CC-A	B5107V400CC-A	B5107E400CC-A
6"	5.50	1.20	8.50	5.60	11.70	B5107S600CC-A	---	B5107E600CC-A
8"	5.00	1.20	11.20	7.80	18.10	B5107S800CC-A	---	B5107E800CC-A

Weld End with Pull Handle - [A]

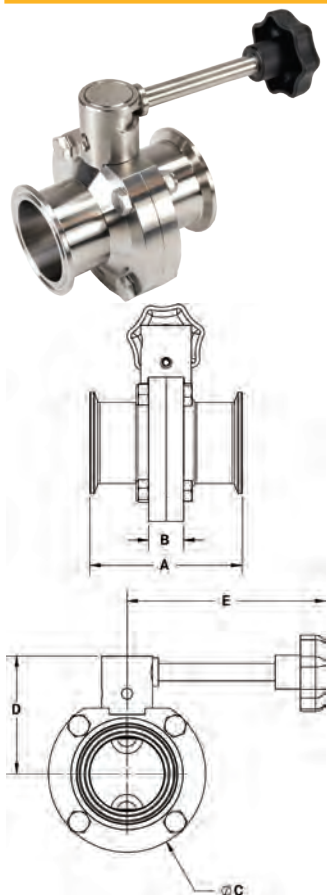
Size	316L Stainless Steel with Silicone Seats Part #	316L Stainless Steel with FKM Seats Part #	316L Stainless Steel with EPDM Seats Part #
1/2"	B5107S050BB-A	B5107V050BB-A	B5107E050BB-A
3/4"	B5107S075BB-A	B5107V075BB-A	B5107E075BB-A
1"	B5107S100BB-A	B5107V100BB-A	B5107E100BB-A
1-1/2"	B5107S150BB-A	B5107V150BB-A	B5107E150BB-A
2"	B5107S200BB-A	B5107V200BB-A	B5107E200BB-A
2-1/2"	B5107S250BB-A	B5107V250BB-A	B5107E250BB-A
3"	B5107S300BB-A	B5107V300BB-A	B5107E300BB-A
4"	B5107S400BB-A	B5107V400BB-A	B5107E400BB-A
6"	B5107S600BB-A	---	B5107E600BB-A
8"	B5107S800BB-A	---	B5107E800BB-A

Size	Dimensions						
	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)
1/2"	1.87	0.90	3.10	2.60	4.60	0.37	0.50
3/4"	1.87	0.90	3.10	2.60	4.60	0.62	0.75
1"	1.87	0.90	3.10	2.60	4.60	0.87	1.00
1.5"	1.87	0.90	3.10	2.60	4.60	1.37	1.50
2"	2.06	0.90	3.90	3.00	4.60	1.87	2.00
2.5"	2.12	0.90	4.60	3.40	4.60	2.37	2.50
3"	2.50	1.20	5.20	3.50	6.50	2.87	3.00
4"	3.18	1.20	6.70	4.30	6.50	3.83	4.00
6"	3.83	1.20	8.50	5.60	11.70	5.78	6.00
8"	4.97	1.20	11.20	7.80	18.10	7.78	8.00



B5107-Series Butterfly Valves

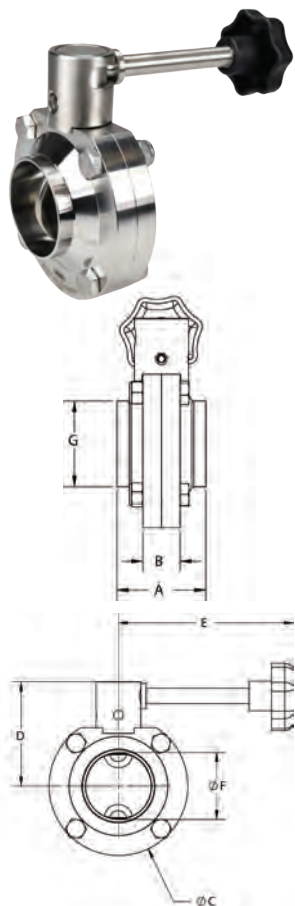
Clamp End with Infinite Position Handle - [B]



Size	316L Stainless Steel with Silicone Seats Part #	316L Stainless Steel with FKM Seats Part #	316L Stainless Steel with EPDM Seats Part #
1/2"	B5107S050CC-B	B5107V050CC-B	B5107E050CC-B
3/4"	B5107S075CC-B	B5107V075CC-B	B5107E075CC-B
1"	B5107S100CC-B	B5107V100CC-B	B5107E100CC-B
1-1/2"	B5107S150CC-B	B5107V150CC-B	B5107E150CC-B
2"	B5107S200CC-B	B5107V200CC-B	B5107E200CC-B
2-1/2"	B5107S250CC-B	B5107V250CC-B	B5107E250CC-B
3"	B5107S300CC-B	B5107V300CC-B	B5107E300CC-B
4"	B5107S400CC-B	B5107V400CC-B	B5107E400CC-B

Size	Dimensions				
	A (in)	B (in)	C (in)	D (in)	E (in)
1/2"	3.50	0.90	3.10	2.60	4.90
3/4"	3.50	0.90	3.10	2.60	4.90
1"	3.50	0.90	3.10	2.60	4.90
1-1/2"	3.50	0.90	3.10	2.60	4.90
2"	3.80	0.90	3.90	3.00	4.90
2-1/2"	3.80	0.90	4.60	3.40	4.90
3"	4.10	1.20	5.20	3.50	6.60
4"	4.80	1.20	6.70	4.30	6.60

Weld End with Infinite Position Handle - [B]

M

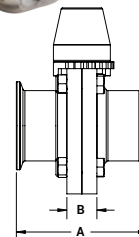
Size	316L Stainless Steel with Silicone Seats Part #	316L Stainless Steel with FKM Seats Part #	316L Stainless Steel with EPDM Seats Part #
1/2"	B5107S050BB-B	B5107V050BB-B	B5107E050BB-B
3/4"	B5107S075BB-B	B5107V075BB-B	B5107E075BB-B
1"	B5107S100BB-B	B5107V100BB-B	B5107E100BB-B
1-1/2"	B5107S150BB-B	B5107V150BB-B	B5107E150BB-B
2"	B5107S200BB-B	B5107V200BB-B	B5107E200BB-B
2-1/2"	B5107S250BB-B	B5107V250BB-B	B5107E250BB-B
3"	B5107S300BB-B	B5107V300BB-B	B5107E300BB-B
4"	B5107S400BB-B	B5107V400BB-B	B5107E400BB-B

Size	Dimensions						
	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)
1/2"	1.87	0.90	3.10	2.60	4.90	0.37	0.50
3/4"	1.87	0.90	3.10	2.60	4.90	0.62	0.75
1"	1.87	0.90	3.10	2.60	4.90	0.87	1.00
1-1/2"	1.87	0.90	3.10	2.60	4.90	1.37	1.50
2"	2.06	0.90	3.90	3.00	4.90	1.87	2.00
2-1/2"	2.12	0.90	4.60	3.40	4.90	2.37	2.50
3"	2.50	1.20	5.20	3.50	6.60	2.87	3.00
4"	3.18	1.20	6.70	4.30	6.60	3.83	4.00

B5107-Series - Butterfly Valves

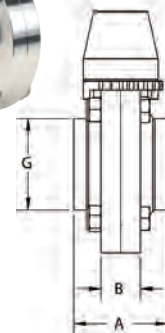
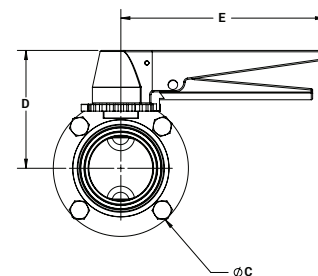
Clamp End with Trigger Handle - [C]

Size	Dimensions					316L Stainless Steel with Silicone Seats Part #	316L Stainless Steel with FKM Seats Part #	316L Stainless Steel with EPDM Seats Part #
	A (in)	B (in)	C (in)	D (in)	E (in)			
1/2"	3.50	0.90	3.10	2.60	5.90	B5107S050CC-C	B5107V050CC-C	B5107E050CC-C
3/4"	3.50	0.90	3.10	2.60	5.90	B5107S075CC-C	B5107V075CC-C	B5107E075CC-C
1"	3.50	0.90	3.10	2.60	5.90	B5107S100CC-C	B5107V100CC-C	B5107E100CC-C
1-1/2"	3.50	0.90	3.10	2.60	5.90	B5107S150CC-C	B5107V150CC-C	B5107E150CC-C
2"	3.80	0.90	3.90	3.00	5.90	B5107S200CC-C	B5107V200CC-C	B5107E200CC-C
2-1/2"	3.80	0.90	4.60	3.40	5.90	B5107S250CC-C	B5107V250CC-C	B5107E250CC-C
3"	4.10	1.20	5.20	3.50	5.90	B5107S300CC-C	B5107V300CC-C	B5107E300CC-C
4"	4.80	1.20	6.70	4.30	5.90	B5107S400CC-C	B5107V400CC-C	B5107E400CC-C



Weld End with Trigger Handle - [C]

Size	316L Stainless Steel with Silicone Seats Part #	316L Stainless Steel with FKM Seats Part #	316L Stainless Steel with EPDM Seats Part #
1/2"	B5107S050BB-C	B5107V050BB-C	B5107E050BB-C
3/4"	B5107S075BB-C	B5107V075BB-C	B5107E075BB-C
1"	B5107S100BB-C	B5107V100BB-C	B5107E100BB-C
1-1/2"	B5107S150BB-C	B5107V150BB-C	B5107E150BB-C
2"	B5107S200BB-C	B5107V200BB-C	B5107E200BB-C
2-1/2"	B5107S250BB-C	B5107V250BB-C	B5107E250BB-C
3"	B5107S300BB-C	B5107V300BB-C	B5107E300BB-C
4"	B5107S400BB-C	B5107V400BB-C	B5107E400BB-C



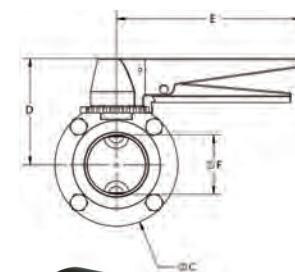
Size	Dimensions						
	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)
1/2"	1.87	0.90	3.10	2.60	5.90	0.37	0.50
3/4"	1.87	0.90	3.10	2.60	5.90	0.62	0.75
1"	1.87	0.90	3.10	2.60	5.90	0.87	1.00
1-1/2"	1.87	0.90	3.10	2.60	5.90	1.37	1.50
2"	2.06	0.90	3.90	3.00	5.90	1.87	2.00
2-1/2"	2.12	0.90	4.60	3.40	5.90	2.37	2.50
3"	2.50	1.20	5.20	3.50	5.90	2.87	3.00
4"	3.18	1.20	6.70	4.30	5.90	3.83	4.00

Repair Kits for B5107-Series Butterfly Valves

Features

- Repair kit contains:
 - (1) seat
 - (2) bushings
- For B5107 series valves, also compatible with B5101 series valves

Valve Size	Black EPDM Part #	Red Silicone Part #	Brown FKM Part #
1/2" - 1"	B5107-RKE100	B5107-RKS100	B5107-RKV100
1-1/2"	B5107-RKE150	B5107-RKS150	B5107-RKV150
2"	B5107-RKE200	B5107-RKS200	B5107-RKV200
2-1/2"	B5107-RKE250	B5107-RKS250	B5107-RKV250
3"	B5107-RKE300	B5107-RKS300	B5107-RKV300
4"	B5107-RKE400	B5107-RKS400	B5107-RKV400
6"	B5107-RKE600	B5107-RKS600	---
8"	B5107-RKE800	B5107-RKS800	---



B5102-Series - Butterfly Valves

Clamp

Features

- All sizes use only 3/4" 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
- Can be serviced in field (no special tools required)
- Various actuation options available

Materials

- Product contact material: 316L stainless steel
- Seat: silicone, EPDM, or FKM

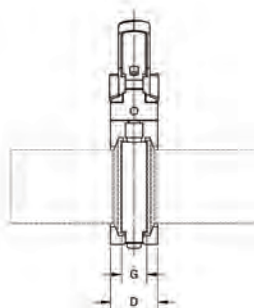
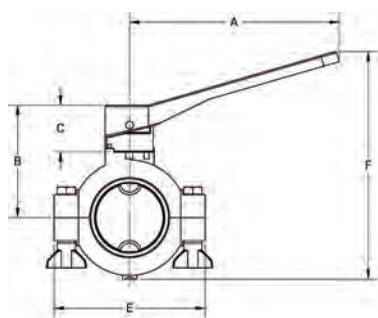
Specifications

- Vacuum rating: 0.4 inches Hg @ 68°F (20°C)
- Operating temperature range: 15°F to 200°F (-9°C to 93°C)

Information supplied based on water media @ 68°F (20°C)

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
1-1/2"	185	36	140	80	2
2"	200	21.6	120	230	2.5
2-1/2"	260	21.6	120	264	3
3"	350	28.8	100	372	4
4"	495	43.2	70	800	6

Size	316L Stainless Steel with Silicone Seats Part #	316L Stainless Steel with FKM Seats Part #	316L Stainless Steel with EPDM Seats Part #
1"	B5102S100-A	B5102V100-A	B5102E100-A
1-1/2"	B5102S150-A	B5102V150-A	B5102E150-A
2"	B5102S200-A	B5102V200-A	B5102E200-A
2-1/2"	B5102S250-A	B5102V250-A	B5102E250-A
3"	B5102S300-A	B5102V300-A	B5102E300-A
4"	B5102S400-A	B5102V400-A	B5102E400-A



Size	Dimensions					
	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)
1"	5.6	2.8	1.3	1.3	3.6	5.6
1-1/2"	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
2-1/2"	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

Repair Kits for B5102-Series Butterfly Valves

Feature

- Repair kit contains
 - (1) seat
 - (2) bushings



Valve Size	Black EPDM Part #	Red Silicone Part #	Brown FKM Part #
1"	B5102-RKE100	B5102-RKS100	B5102-RKV100
1-1/2"	B5102-RKE150	B5102-RKS150	B5102-RKV150
2"	B5102-RKE200	B5102-RKS200	B5102-RKV200
2-1/2"	B5102-RKE250	B5102-RKS250	B5102-RKV250
3"	B5102-RKE300	B5102-RKS300	B5102-RKV300
4"	B5102-RKE400	B5102-RKS400	B5102-RKV400

B5116-Series - Butterfly Valves

Features

- Manual operation only
- Can be serviced in field
- Blue trigger handle

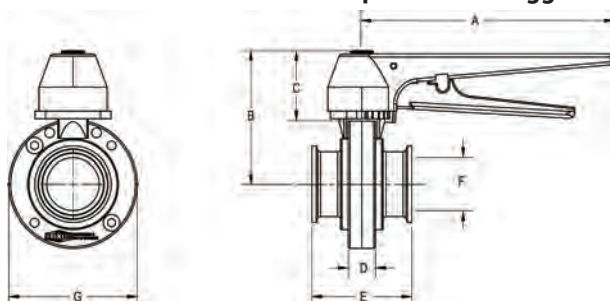
Materials

- Product contact material : 304 stainless steel
- Elastomer: EPDM, silicone

Specifications

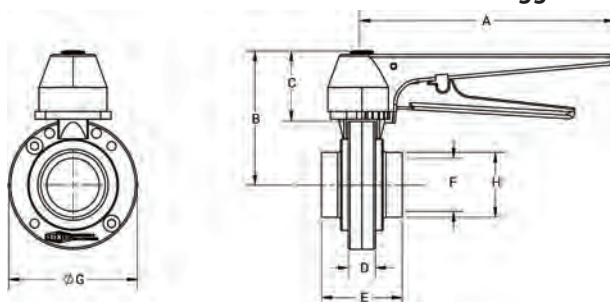
- Operating temperature range: 15°F to 200°F (-9°C to 93°C)
- Maximum operating pressure: 110 PSI
- Internal product contact surface finish ≤ 32 Ra

Clamp End with Trigger Handle



Size	Dimensions							304 Stainless Steel with Silicone Part #	304 Stainless Steel with EPDM Part #
	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)		
1-1/2"	6.60	3.60	1.70	0.71	2.60	1.37	3.35	B5116S150CC-C	B5116E150CC-C
2"	6.60	4.00	1.70	0.71	2.76	1.87	4.13	B5116S200CC-C	B5116E200CC-C
3"	6.60	4.40	1.70	0.71	2.99	2.87	4.92	B5116S300CC-C	B5116E300CC-C
4"	6.60	5.00	1.70	0.71	2.99	3.84	6.18	B5116S400CC-C	B5116E400CC-C

Weld End with Trigger Handle



Size	Dimensions								304 Stainless Steel with Silicone Part #	304 Stainless Steel with EPDM Part #
	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)		
1-1/2"	6.60	3.60	1.70	0.71	2.99	1.37	3.35	1.50	B5116S150BB-C	B5116E150BB-C
2"	6.60	4.00	1.70	0.71	3.15	1.87	4.13	2.00	B5116S200BB-C	B5116E200BB-C
3"	6.60	4.40	1.70	0.71	3.23	2.87	4.92	3.00	B5116S300BB-C	B5116E300BB-C
4"	6.60	5.00	1.70	0.71	3.46	3.84	6.18	4.00	B5116S400BB-C	B5116E400BB-C

Replacement Seats

Size	Silicone Part #	EPDM Part #
1-1/2"	B5116-RKS150	B5116-RKE150
2"	B5116-RKS200	B5116-RKE200
3"	B5116-RKS300	B5116-RKE300
4"	B5116-RKS400	B5116-RKE400

Betts Wet-R-Dri™ Butterfly Valves

Application

- Designed for handling liquid, gaseous, or dry products

Features

- Has a positive stop in the open and closed position
- Detent spring and ball assist in holding the disc in the open and closed position
- Drilling fits TTMA recommended standards
- Opens by turning hand 1/4 turn counter clockwise

Specification

- Temperature range: 0°F to 400°F (-17°C to 204°C)



Manual

Size	Maximum Working Pressure PSI	Extruded aluminum body with FKM-B disc Part #
2"	75	WD201ALVB
3"		WD301ALVB
4"		WD401ALVB
5"		WD501ALV
6"		WD601ALV
8"		WD801ALV



Metering

Size	Maximum Working Pressure PSI	Extruded aluminum body with FKM-B disc Part #
2"	75	WD206ALVB
3"		WD306ALVB
4"		WD406ALVB
5"		WD506ALV
6"		WD606ALV
8"		WD806ALV

Replacement Handles

Part #	Description
28967ALEY	replacement handle for 2", 3", 4", and 5" manual handle valves
25933AL	replacement handle for 6" and 8" manual handle valves
28981ALEY	replacement handle for 2", 3', 4", and 5" metering handle valves
26287AL	replacement handle for 6" and 8" metering handle valves

NOTE: For flange dimensions, diagrams and additional information please reference dixonvalve.com.

Ductile Iron Butterfly Valves

NOT RECOMMENDED FOR STEAM SERVICE 

Application

- For use between two 150 lb. flanges

Feature

- 10 position trigger grip handle

Specification

- Pressure rating: **200 PSI** at ambient temperature 70°F (21°C)

Threaded Lug Style Butterfly Valves

Materials

- Ductile iron body, ASTM A536
- Aluminum bronze disc, ASTM B148, ALY.954
- PTFE bushing
- Stainless steel top and bottom stems

Size	Ductile Iron with Nitrile Rubber Liner Part #	Ductile Iron with EPDM Liner Part #
2"	BFVL200	BFVL200E
3"	BFVL300	BFVL300E
4"	BFVL400	BFVL400E
6"	BFVL600	BFVL600E



Wafer Style 150 lb. Butterfly Valves with Aluminum Bronze Disc

Materials

- Ductile iron body, ASTM A536
- Aluminum bronze disc, ASTM B148, ALY.954
- PTFE bushing
- Stainless steel top and bottom stems

Size	Ductile Iron with Nitrile Rubber Liner Part #	Ductile Iron with EPDM Liner Part #
2"	BBFVW200	BBFVW200E
3"	BBFVW300	BBFVW300E
4"	BBFVW400	BBFVW400E
6"	BBFVW600	BBFVW600E



Wafer Style 150 lb. Butterfly Valves with Stainless Disc

Materials

- Ductile iron body, ASTM A536
- Stainless steel disc, ASTM A351, GR. CF-8M
- Nitrile rubber seal and stem seals
- PTFE bushing
- Stainless steel top and bottom stems

Size	Ductile Iron with Nitrile Rubber Liner Part #
2"	BFVW200
3"	BFVW300
4"	BFVW400
6"	BFVW600



Wafer Style 150 lb. Butterfly Valves with Iron Disc

Materials

- Ductile iron body, ASTM A536
- Nickel plated ductile iron disc
- Nitrile rubber seal and stem seals
- PTFE bushing
- 416 stainless stem

Size	Ductile Iron with Nitrile Rubber Liner Part #	Ductile Iron with EPDM Liner Part #
3"	IBFVW300	IBFVW300E
4"	IBFVW400	IBFVW400E
6"	IBFVW600	IBFVW600E
8"	IBFVW800	IBFVW800E

