

RELIANT
BRAND

Butterfly Valve

CENTRIC, PTFE SEATED
Lever, Gear, Pneumatic, Electric Operated

PRESSURE RATING
1 1/2" - 24" : 150 psig



Features and Benefits

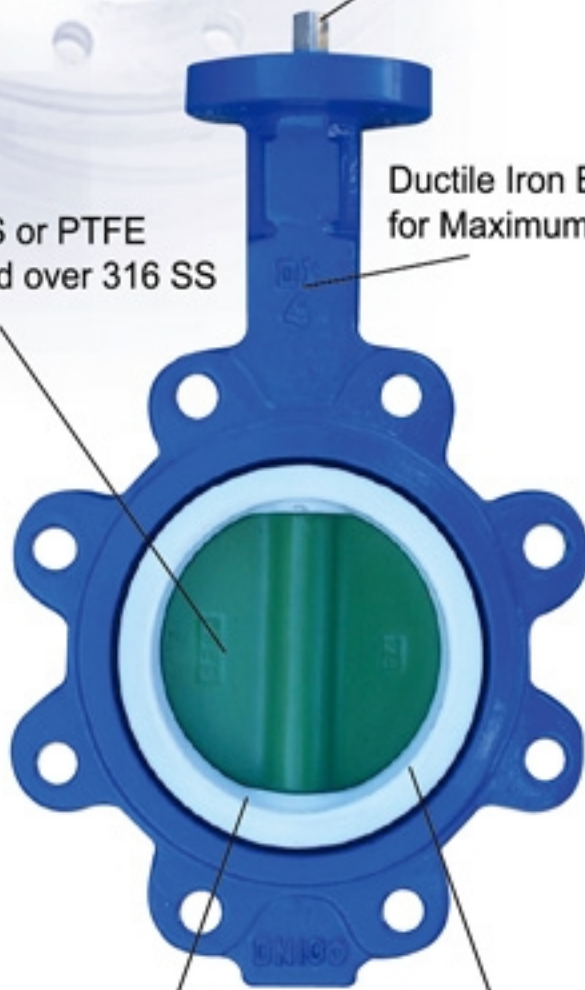
ISO 5211 Stem / Pad
Allows Direct Mounting
of Operators

TOP WORK:

Absolute positive stem retention using corrosion resistant plate, retained by two screws fastened to the body. Bolt pattern is ISO5211
Stem is ISO5211

Ductile Iron Body
for Maximum Strength

316SS or PTFE
Coated over 316 SS
Disc



Phenolic Backed, Cartridge,
PTFE over Rubber Seat

One-Piece 316 SS Stem
Internal Disc / Stem Engagement
3 - PTFE Stem Bushings

Stem:

Top of the 1-piece 316SS stem is the short square pattern that fits the Value Valve RPB pneumatic and the EOM electric actuator or any ISO5211 "drive by diagonal square head" actuator. Top is also grooved to fit above retaining plate.



Bottom of the 1-piece 316SS stem is double D drive, internal to the disc, eliminating the use of external fasteners. Close tolerance minimizes disc play while allowing easy removal of the disc and / or stem when necessary.



FEATURES

Disc:

Available in 316SS or .3mm PTFE coated 316SS
Internal DD drive is standard



Seat:

Cartridge type seat for high cycles and full vacuum is PTFE over Rubber .
Triple O-rings molded into seat ensures zero stem leakage. Large flat areas top and bottom maintains the disc to seat seal.



Bushings:

3-PTFE over fiberglass bushings keep the stem in perfect alignment with the seat and eliminates movement under pressure.



Automation:

Made easy by the ISO5211 top works, the VF Series PTFE valve is easily direct mounted to Value Valve's RPB series Pneumatic or EOM electric actuators.

Design Detail and Specifications

Face to Face: Valve body is designed to meet ISO 5752 table 5 short

Top Works: ISO 5211 PCD bolt pattern and drive stem

Flange Requirements: ANSI 125/150, BS Table E, JIS, 10K, DIN PN10

Pressure Rating: Maximum Bi - Directional bubble tight shutoff

150 psig

Seat tested to 110% full rating

Shell tested to 150% full rating

Body / Coating: 2 coats - epoxy resin

ASTM #A-536-65-45-12

Stem / Connection: 1 - piece 316SS stem, internal disc drive,

double "D" connection

ASTM # 182 F316

Disc: Spherically Machined 316SS, with optional 2 coats sprayed on PTFE to

.3 mm thickness

ASTM # A351 CF8M

Stem Retention: Retainer plate fitted into stem slot and bolted to the body

Stem Bushings: PTFE over fiberglass bushing located at bottom, immediately above the

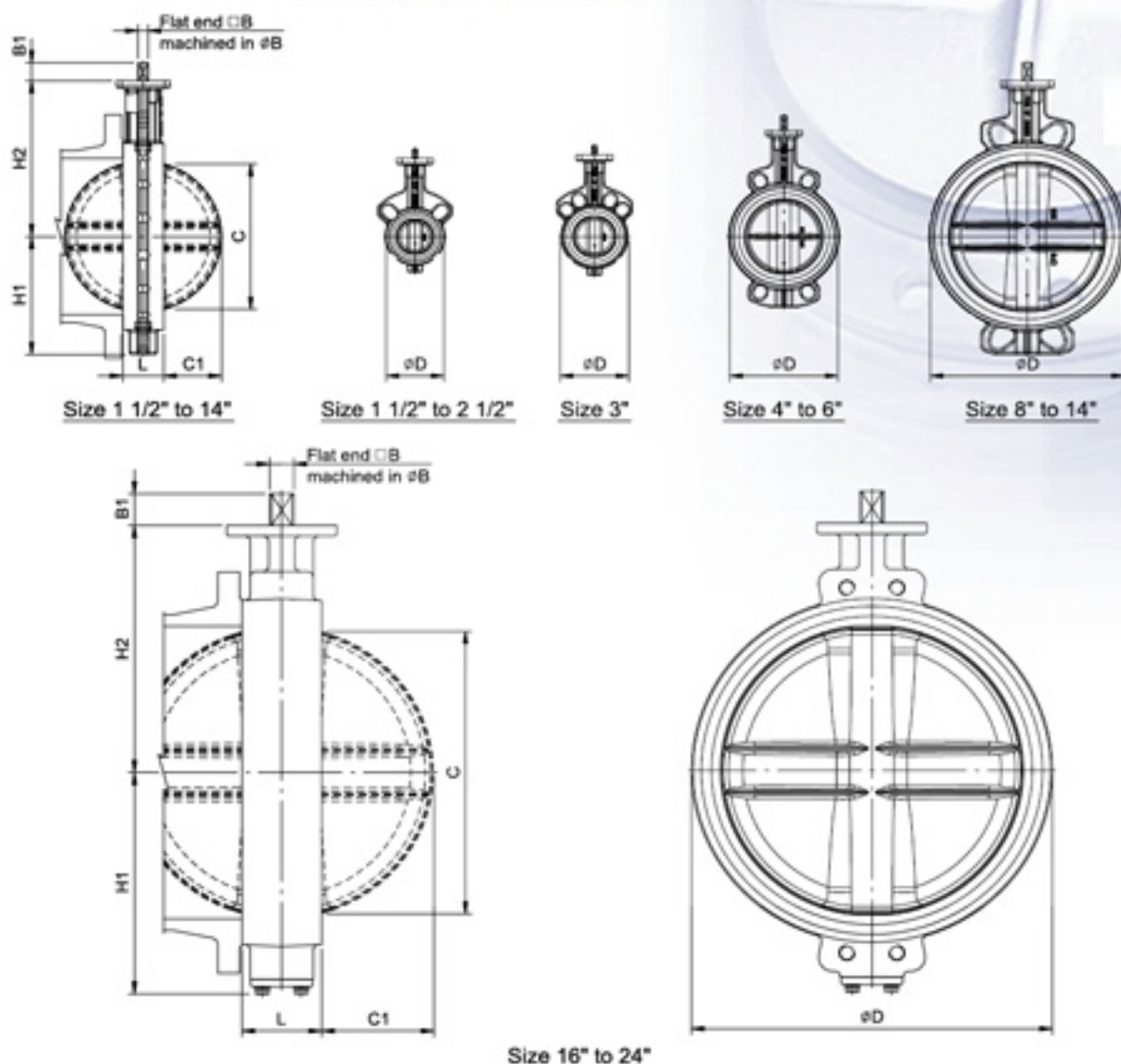
disc, and at top of stem, pressed into the body. Top bushing is split

with viton o-ring between the two halves

Seat Design: Phenolic backed PTFE over rubber, cartridge seat

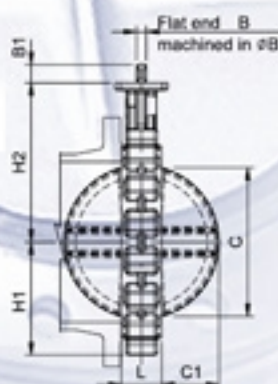
Triple o-rings molded into top and bottom of seat

VF730 PTFE Dimensions



Size		Face to Face L				Mounting flange (ISO 5211)		Flat shaft end			Disc clearance		Weight lbs
mm	inch		H1	H2	D	Type	PCD	□ B	B1	±B	C	C1	
40	1 1/2	1.30	2.36	4.72	3.19	F07	2.76	0.43	0.75	0.55	1.34	0.28	4.4
50	2	1.69	2.56	5.63	3.78	F07	2.76	0.43	0.75	0.55	1.54	0.31	6.6
65	2 1/2	1.81	2.80	6.10	4.33	F07	2.76	0.43	0.75	0.55	2.17	0.51	8.4
80	3	1.81	3.03	6.38	4.88	F07	2.76	0.43	0.75	0.55	2.72	0.75	8.8
100	4	2.05	4.21	7.13	5.83	F07	2.76	0.43	0.75	0.55	3.58	1.06	11.7
125	5	2.20	4.80	7.76	7.09	F07	2.76	0.55	0.75	0.75	4.53	1.42	16.7
150	6	2.20	5.51	8.27	8.11	F07	2.76	0.55	0.75	0.75	5.51	1.85	18.1
200	8	2.36	6.50	9.45	10.20	F10	4.02	0.67	0.94	0.87	7.32	2.68	29.8
250	10	2.68	7.91	11.26	12.60	F10	4.02	0.75	0.94	0.98	9.41	3.54	46.7
300	12	3.07	9.21	12.17	14.57	F10	4.02	0.87	0.94	1.18	11.34	4.37	71.6
350	14	3.07	11.87	12.95	16.22	F12	4.92	1.06	1.14	1.38	12.80	5.04	105.8
400	16	4.02	13.13	14.21	18.70	F12	4.92	1.26	1.14	1.65	14.76	5.63	132.3
450	18	4.49	14.11	15.47	20.87	F14	5.51	1.26	1.50	1.77	16.65	6.38	176.4
500	20	5.00	15.45	16.81	23.03	F14	5.51	1.42	1.50	1.97	18.62	7.17	275.6
600	24	6.06	17.89	19.37	27.05	F16	6.50	1.81	1.89	2.36	22.05	8.43	440.9

VF733 PTFE Dimensions



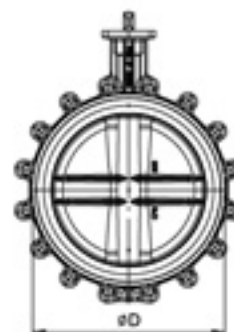
Size 1 1/2" to 14"



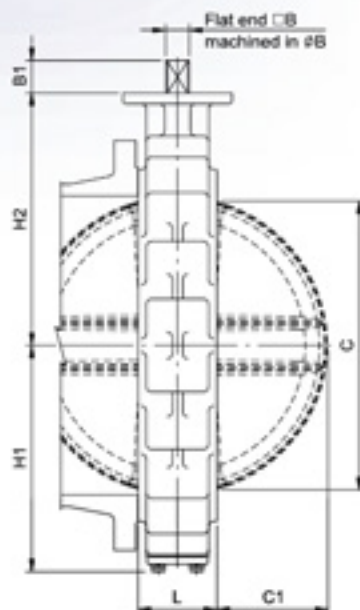
Size 1 1/2" to 3"



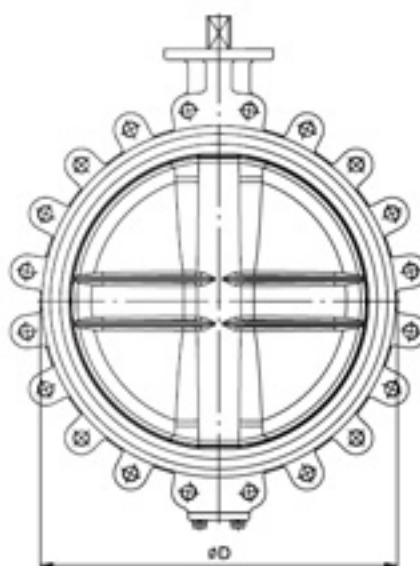
Size 4" to 8"



Size 8" to 14"



Size 16" to 24"



Size		Face to Face L				Mounting flange (ISO 5211)		Flat shaft end			Disc clearance		Weight
mm	inch		H1	H2	D	Type	PCD	□ B	B1	±B	C	C1	lbs
40	1 1/2	1.30	2.36	4.72	3.19	F07	2.76	0.43	0.75	0.55	1.34	0.28	4.9
50	2	1.69	2.56	5.63	3.78	F07	2.76	0.43	0.75	0.55	1.54	0.31	7.5
65	2 1/2	1.81	2.80	6.10	4.33	F07	2.76	0.43	0.75	0.55	2.17	0.51	8.8
80	3	1.81	3.03	6.38	4.88	F07	2.76	0.43	0.75	0.55	2.72	0.75	9.9
100	4	2.05	3.50	7.13	5.83	F07	2.76	0.43	0.75	0.55	3.58	1.06	16.8
125	5	2.20	4.41	7.76	7.09	F07	2.76	0.55	0.75	0.75	4.53	1.42	20.9
150	6	2.20	4.84	8.27	8.11	F07	2.76	0.55	0.75	0.75	5.51	1.85	22.9
200	8	2.36	5.91	9.45	10.20	F10	4.02	0.67	0.94	0.87	7.32	2.68	38.6
250	10	2.68	7.05	11.26	12.60	F10	4.02	0.75	0.94	0.98	9.41	3.54	58.4
300	12	3.07	8.50	12.17	14.57	F10	4.02	0.87	0.94	1.18	11.34	4.37	95.9
350	14	3.07	11.87	12.95	16.22	F12	4.92	1.06	1.14	1.38	12.80	5.07	127.9
400	16	4.02	13.13	14.21	18.70	F12	4.92	1.26	1.14	1.65	14.76	5.63	178.6
450	18	4.49	14.11	15.47	20.87	F14	5.51	1.26	1.50	1.77	16.65	6.38	242.5
500	20	5.00	15.45	16.81	23.03	F14	5.51	1.42	1.50	1.97	18.62	7.17	341.7
600	24	6.06	17.89	19.37	27.05	F16	6.50	1.81	1.89	2.36	22.05	8.43	571.0

Accessories



Positioners



**Limit Switches and
Solenoids**



**RPB Series Rack &
Pinion Actuator**

**Manual DeClutchable
Override**



**Ductile Iron and Stainless Steel
Handles and Gear Operators**



EOM Series Electric Actuators
(With optional Local / Remote Pushbuttons)



www.bvcusa.com
www.bvcusa.com



Butterfly Valves & Controls Inc.

671 Industrial Blvd. Grapevine, Texas 76051

Phone: 817-421-5343

Facs: 817-416-6270

www.bvcusa.com

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