

NEW PRODUCT PREVIEW

BYV Series Butterfly Valves GFPP Body with PVDF Disc

2" TO 12" / DN50 - 300 GFPP WITH PVDF DISC

KEY FEATURES & BENEFITS

- One Piece Injection Molded GFPP Body
- PVDF Disc Material
- Hand Lever with 19 Lockable Stop Positions & 360° Interlocking Splines
- External Disc Position and Flow Indication
- Hydro-dynamic Centric Disc for Increased Flow Performance
- Over-Sized Liner Face Maximizes Surface Contact with Flanges
- 1-Piece 316 Stainless Steel Stem with Threaded Retaining Gland
- Stem Bearing and Seal Retainer for Absolute Stem Position and Seal
- ISO 5211 Top Flange and Stem Drive
- All Sizes Meet ANSI B16.10 / ISO 5752 Narrow Face-to-Face Dimensions
- Pressure Rated at 150 PSI/10 Bar in All Sizes @ 70°F Non-Shock

OPTIONS

- Over-Molded 316 Stainless Steel Lugs (ANSI Only)
- Titanium or Hastelloy™ Stem Materials
- Robust Quarter Turn Gear Operators
- Chain Operator for Gear Box
- Complete Range of Pneumatic or Electric Actuators
- Lock Out Caps - Tamper-proof Option
- Stem Extensions
- 2" Square Operating Nut on Gear Operator

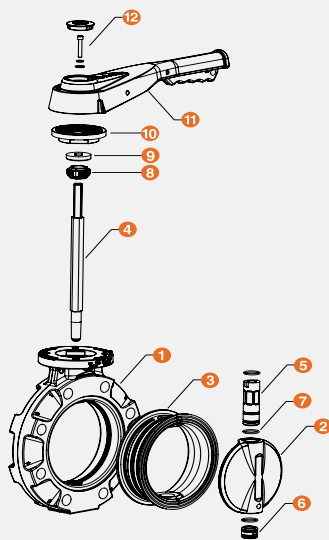
MATERIALS

- GFPP Cell Class 85580 per ASTM D4101
- Natural PVDF per ASTM D3222 Type 1
- Viton®, EPDM or Nitrile Liners



TECHNICAL INFORMATION

EXPLODED VIEW



SELECTION CHART

SIZE	BODY MATERIAL	DISC MATERIAL	LINER MATERIAL	PRESSURE RATING
2" - 12" (DN50 - DN300)	GFPP ¹	PVDF ²	Viton®, EPDM or Nitrile	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

Flanged ends to DIN / EN PN10.

¹GFPP = Glass-filled Polypropylene. ²PVDF = Polyvinylidene Fluoride.

"Patented" & Other Patents Pending" Pat. No.: 11,092,242,
Pat. No.: 9,695,947; 9,989,154; 10,683,937; 10,683,938;
10,690,252

BYV SERIES

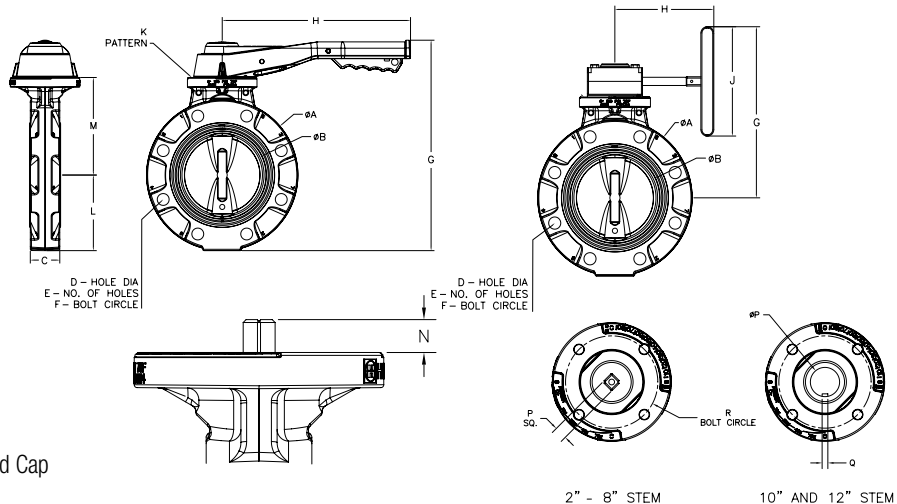
BUTTERFLY VALVES

2" TO 12" / DN50 - 300 GFPP WITH PVDF DISC

TECHNICAL INFORMATION, CONTINUED

PARTS LIST

1. Body- GFPP
2. Disc- Natural PVDF
3. Liner- EPDM, Viton® or Nitrile
4. Stem- 316SS
5. Upper Stem Bearings- PVDF
6. Seal Retainer- PVDF
7. O-Rings (4)- EPDM, FPM or Nitrile
8. Threaded Retaining Gland- GFPP
9. Weather Seal
10. Splined Throttle Plate (Ultem®)
11. Hand Lever Assembly- GFPP
12. Bezel (PP), Lock Washer (18-8), Socket Head Cap Screw (18-8)



DIMENSIONS

SIZE	A	B	C (1)	D, ANSI (2)	E	F, ANSI (2)	G			H		J	K (4) ISO 5211	L	M	N	P	Q, 10" & 12", SQUARE KEY	R	WEIGHT w LEVER	WEIGHT w GEAR
in / DN	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm			in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	lbs / Kg	lbs / Kg
2/50	6.12/155	2.03/52	1.69/43	0.75/19	4/4	4.75/121	7.53/191	6.25/159	4.75/121	10.5/267	5/125	F07-D11	3.17/81	3.97/101	0.51/13	0.430-0.433/ 10.92-11	-	2.76/70	4.0/1.8	5.8/2.6	
2.5/65	7.25/184	2.50/64	1.81/46	0.75/19	4/4	5.50/140	7.96/202	6.67/169	4.75/121	10.5/267	5/125	F07-D11	3.63/92	4.40/112	0.51/13	0.430-0.433/ 10.92-11	-	2.76/70	4.9/2.2	6.7/3.0	
3/80	7.75/197	3.25/83	1.81/46	0.75/19	4/8	6.00/152	8.31/211	7.00/178	4.75/121	10.5/267	5/125	F07-D11	3.88/99	4.75/121	0.51/13	0.430-0.433/ 10.92-11	-	2.76/70	5.2/2.4	7.0/3.2	
4/100	9.13/232	4.12/105	2.06/52	0.75/19	8/8	7.50/191	9.29/236	8.00/203	7.28/185	12.00/30	5/125	F07-D14	4.57/116	5.69/145	0.68/17	0.548-0.551/ 13.92-14	-	2.76/70	7.7/3.5	11.1/5	
6/150	11.25/286	5.98/152	2.19/56	0.88/22	8/8	9.50/241	12.35/314	10.00/254	7.75/197	14.00/356	8/200	F10-D14	5.63/143	7.25/184	0.68/17	0.548-0.551/ 13.92-14	-	4.02/102	12.7/5.8	16.2/7.4	
8/200	13.75/349	7.75/197	2.38/60	0.88/22	8/8	11.75/298	13.48/342	11.18/284	7.75/197	16.00/406	8/200	F10-D17	6.88/175	8.38/213	0.77/20	0.666-0.669/ 16.92-17	-	4.02/102	18.5/8.4	21.9/10.0	
10/250	16.13/410	9.63/245	2.69/68	1.00/25	12/12	14.25/362	16.37/416	N/A	9.00/229	N/A	10/250	F12-V28	8.06/205	10.88/276	2.24/57	1.102 DIA. / 28 DIA.	0.25/6.35	4.92/125	N/A	34.2/15.5	
12/300	19.13/486	11.37/289	3.06/78	1.00/25	12/12	17.00/432	17.87/454	N/A	9.00/229	N/A	10/250	F12-V36	9.56/243	12.38/314	2.24/57	1.417 DIA. / 36 DIA.	0.25/6.35	4.92/125	N/A	50.4/22.9	

1) Dimension per ASME B16.10 Class 150, Steel, Narrow

4) ISO 5211 Flange and Drive

2) ANSI dimension per ASME B16.5, Class 150

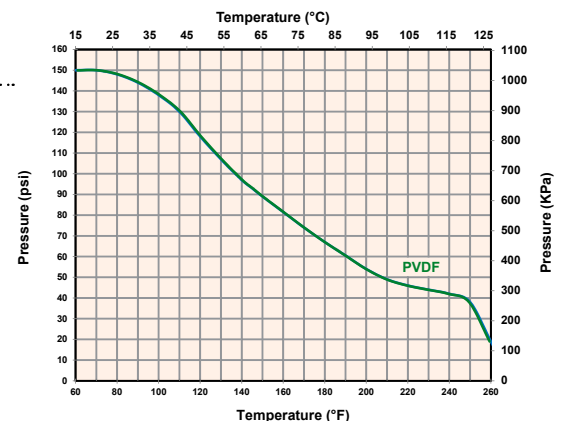
5) All weights are for non-lugged versions

3) Dimension per DIN 2501, PN10

Cv VALUES

SIZE in / DN	DISC ANGLE					FULL OPEN POSITION	PRESSURE LOSS CALCULATION FORMULA
	15°	30°	45°	60°	75°		
2 / 50	0.2	15	37	65	88	92	$\Delta P = \left[\frac{Q}{C_v} \right]^2$ $\Delta P = \text{Pressure Drop}$ $Q = \text{Flow in GPM}$ $C_v = \text{Flow Coefficient}$
2-1/2 / 65	1.1	24	45	80	145	165	
3 / 80	3.1	28	36	83	182	250	
4 / 100	20	58	84	183	390	470	
6 / 150	30	105	200	458	1000	1510	
8 / 200	125	203	375	770	1650	2820	
10 / 250	123	289	644	1396	3003	4723	
12 / 300	154	435	1011	2189	4586	6400	

OPERATING TEMPERATURE/PRESSURE



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NPP0723

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Hayward Flow Control has been a leading manufacturer of industrial thermoplastic valves and process control products for more than 60 years. In fact, Hayward was one of the originators of the first thermoplastic ball valves. Since then, we have remained committed to producing the highest quality products while providing outstanding service.

Liquid Filters and Strainers



Bag Filter vessel

- GFPP
- PVC
- CPVC



Y Strainers

- PVC
- CPVC
- Clear PVC
- PVDF



Simplex Strainers

- PVC
- CPVC
- GFPP
- PVDF
- Eastar® (Clear)



Duplex Strainers

- PVC
- CPVC
- GFPP
- Eastar® (Clear)

Valves and Flow Control



Ball Valves

- PVC
- CPVC
- GFPP
- PVDF



Check Valves

- Ball Check Valves
- Y-Check Valves
- Wafer Check Valves
- Swing Check Valves



Pressure & Chemfeed

- Injection Quills
- Back Pressure
- Pressure Relief
- Diaphragm Valves
- Needle Valves
- Angle Globe Valves



Butterfly Valves

- PVC
- CPVC
- GFPP
- PP
- PVDF



Actuation

- Electric
- Pneumatic



Solenoid Valves

- PVC
- CPVC
- PVDF



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