



BY Series Butterfly Valves

1-1/2" TO 12" PVC, CPVC AND GFPP

KEY FEATURES

- PVC, CPVC and GFPP Bodies and Discs
- FPM, EPDM and Nitrile Seat Materials
- Fully Supported Flange Bolt Holes
- V-Notch Seal of Liner to Body
- Seven-Position Lever Handle or Gear Box Operator*
- 316 Grade Stainless Steel Shaft
- Meets ANSI B16.10 Face-to-Face Dimensions**

OPTIONS

- Stem Extensions
- Gear Operators
- Pneumatic or Electric Actuators
- Stainless Steel Lugs
- 2" Square Operating Nut
- Titanium or Hastelloy® Shaft
- Chain Operator for Gear Box

MATERIALS

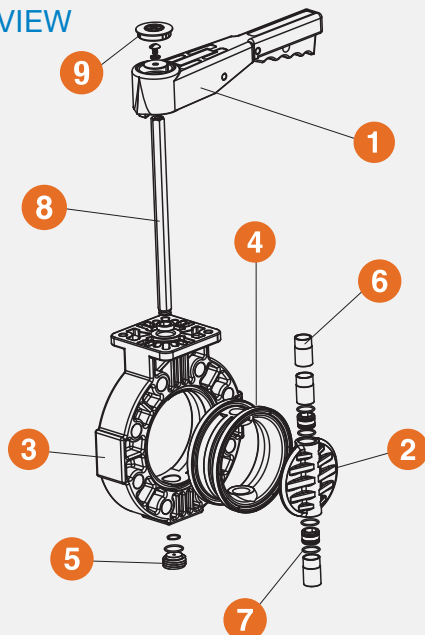
- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- GFPP Cell Class 85580 per ASTM D4101
- FPM, EPDM or Nitrile Liners

* Typical operation: Lever up to 6"; Gear or lever at 8";
Gear only 10" and up

** Except 10"

TECHNICAL INFORMATION

EXPLODED VIEW



SELECTION CHART

SIZE	BODY MATERIAL	DISC MATERIAL	LINER MATERIAL	PRESSURE RATING
1-1/2" – 8" (DN40 – DN200)	PVC, CPVC or GFPP	PVC, CPVC or GFPP	FPM, EPDM or Nitrile	150 PSI @ 70°F Non-Shock
10" – 12" (DN250 – DN300)	GFPP	PVC or GFPP		

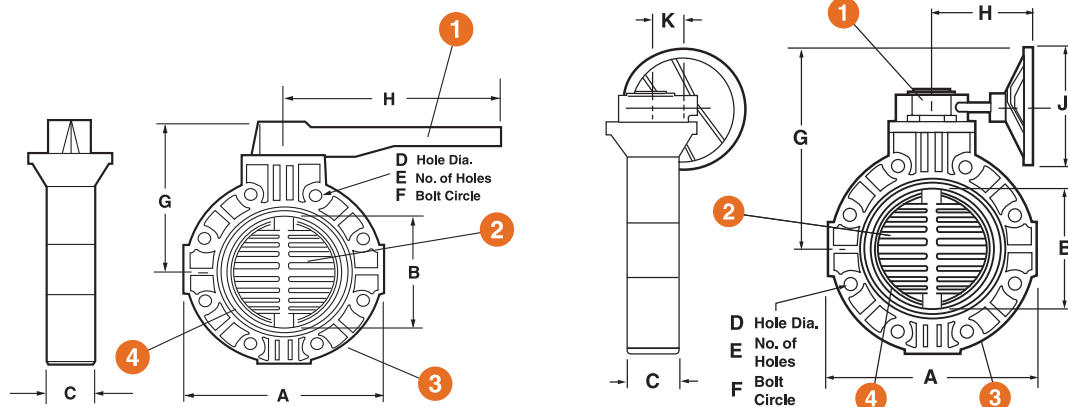
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TECHNICAL INFORMATION, CONTINUED

PARTS LIST

1. Operator (Lever or Gear Box)
2. Disc
3. Body
4. Liner
5. Bottom Plug
6. Bearings
7. Seal Retainer
8. Shaft
9. Bezel, Screw and O-Ring



DIMENSIONS – INCHES / MILLIMETERS

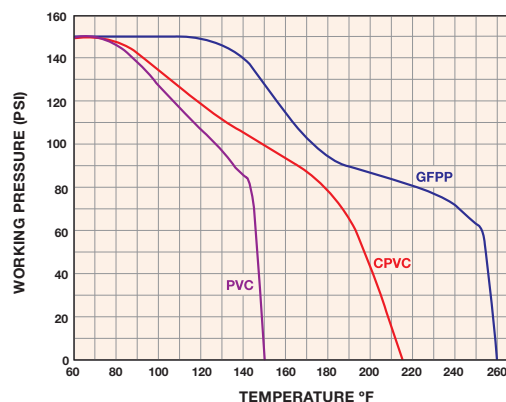
SIZE in / DN	A in / mm	B in / mm	C in / mm	D in / mm	E in / mm	F in / mm	GEAR BOX	LEVER	GEAR BOX	LEVER	J in / mm	K in / mm	WEIGHT lbs / kg
							G in / mm		H in / mm				
1-1/2 / 40	6.00 / 152	1.75 / 44	1.66 / 38	.63 / 16	4 / 102	3.88 / 99	9.31 / 236	6.25 / 159	7.13 / 181	10.50 / 267	8.00 / 203	1.88 / 48	10.50 / 4.76
2 / 50	6.00 / 152	1.75 / 44	1.66 / 38	.75 / 19	4 / 102	4.75 / 121	9.31 / 236	6.25 / 159	7.13 / 181	10.50 / 267	8.00 / 203	1.88 / 48	10.50 / 4.76
3 / 80	7.75 / 197	3.13 / 80	1.88 / 48	.75 / 19	4 / 102	6.00 / 152	9.75 / 248	6.69 / 170	7.13 / 181	10.50 / 267	8.00 / 203	1.88 / 48	11.60 / 5.26
4 / 100	9.25 / 235	3.94 / 100	2.06 / 52	.75 / 19	8 / 203	7.50 / 191	10.19 / 259	7.94 / 202	7.13 / 181	12.00 / 305	8.00 / 203	1.88 / 48	14.30 / 6.49
6 / 150	11.25 / 286	5.81 / 148	2.19 / 56	.88 / 22	8 / 203	9.50 / 241	12.38 / 314	9.50 / 241	7.13 / 181	14.00 / 356	8.00 / 203	1.88 / 48	15.40 / 6.99
8 / 200	13.75 / 349	7.75 / 197	2.38 / 60	.88 / 22	8 / 203	11.75 / 298	13.50 / 343	10.63 / 270	7.13 / 181	16.00 / 406	8.00 / 203	1.88 / 48	23.50 / 10.66
10 / 250	16.00 / 406	9.76 / 248	3.00 / 76	1.00 / 25	12 / 305	14.25 / 362	16.00 / 406	N/A	8.09 / 205	N/A	8.00 / 203	2.36 / 60	39.00 / 17.69
12 / 300	19.00 / 483	11.50 / 292	3.18 / 81	1.00 / 25	12 / 305	17.00 / 432	17.50 / 445	N/A	8.09 / 205	N/A	8.00 / 203	2.36 / 60	51.00 / 23.13

Dimensions are subject to change without notice – consult factory for installation information

Cv VALUES

DISC ANGLE	15°	30°	45°	60°	75°	FULL OPEN	PRESSURE LOSS CALCULATION FORMULA $\Delta P = \left[\frac{Q}{C_v} \right]^2$ ΔP = Pressure Drop Q = Flow in GPM C_v = Flow Coefficient
SIZE in / DN	Cv VALUES						
1-1/2 / 40	1	8	15	25	58	90	
2 / 50	2	11	21	35	81	125	
3 / 80	11	28	55	90	170	280	
4 / 100	16	55	75	145	340	600	
6 / 150	35	110	255	545	940	1300	
8 / 200	160	220	580	1035	1820	2500	
10 / 250	200	450	1000	1800	3100	4700	
12 / 300	250	750	1300	2800	4500	7100	

OPERATING TEMPERATURE / PRESSURE



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Contact Hayward Flow Control with questions: 1-888-429-4635 • Fax: 1-888-778-8410 • One Hayward Industrial Drive • Clemmons, NC 27012 • USA
Visit us at: www.haywardflowcontrol.com • Email: hflow@haywardnet.com