

**FEATURES AND BENEFITS**

- Corrosion resistant thermoplastic body, disc and handle.
- Compact and light weight design
- Full boot seal for durable performance (No flange gaskets required)
- ANSI B16.5 Class 150 Flange Pattern
- 7-Position Locking Polypropylene Handle with position indicator for throttling. Lever features a lockout hole.
- Pressure rating: 150 psi non-shock water @ 73°F
- 100% Bubble tight seal
- 4 1/2" BFV is direct retrofit for ©ASAHI type 56/57 and Pool Pro BFV (Same Face to Face DIM)

**MATERIAL OPTIONS (All are available with EPDM, BUNA-N or FKM Seals)**

- PVC w/ PP Disc
- CPVC w/ CPVC Disc
- PP w/ PP Disc

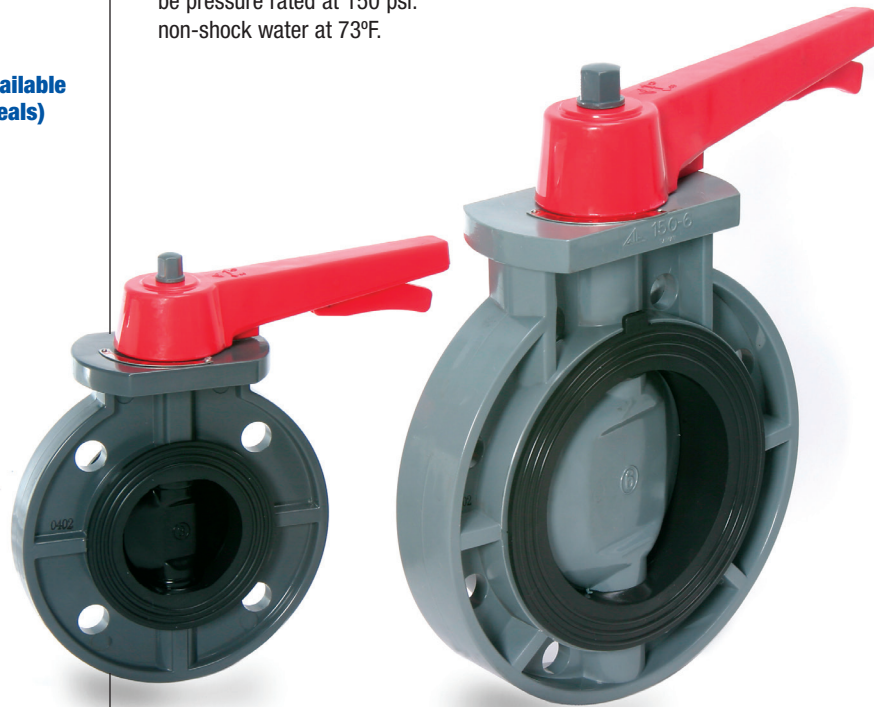
See NG Series for 8, 10, 12" sizes with gear operator



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**SAMPLE ENGINEERING SPECIFICATIONS**

Butterfly valves shall be lever actuated. Valve body and disc shall be produced of PVC Type I, cell classification 12454 or CPVC Type IV, cell classification 23447 or PP material. Valve boot/seal and O-rings shall be made of EPDM, FKM or Buna-N (NBR) material. Stem shall be made of stainless steel. The disc bore (center) shall contain a integrally molded stainless steel reinforcement square liner, which engages with the stainless steel valve stem. Boot/seal (liner) and disc shall be the only wetted parts of the valve. Lever handle shall be produced of PP material, and shall be capable of locking in multiple, marked positions from opening to close. Bolt pattern shall conform to ANSI/ASME B 16.5 Class 150 standards. Valves shall be pressure rated at 150 psi. non-shock water at 73°F.



Part numbers have been revised for CPVC/EPDM and CPVC/FKM.

Revised 8/1/14

**TEMPERATURE DE-RATING FOR VALVES & UNIONS (ABOVE 73° F)**

Temp (°F)	PVC	CPVC	PP
73	1.00	1.00	1.00
80	.88	.96	.93
90	.75	.92	.83
100	.62	.85	.74
110	.50	.77	.66
120	.40	.70	.58
130	.30	.62	.51
140	.22	.55	.40
150	NR	.47	.38
160	NR	.40	.35
170	NR	.32	.29
180	NR	.25	.23
200	NR	.18	.14
210	NR	.15	.10
240	NR	NR	NR
280	NR	NR	NR

NR: Not Recommended

Caution: Colonial recommends a minimum installation distance of 10 X the pipe diameter from a pump or other sources of turbulence.

**MAXIMUM RECOMMENDED TORQUE FOR FLANGE FASTENERS FOR INSTALLATION (ft lbs)**

Size	Torque	Size	Torque
2	12	5	18
2-1/2	12	6	20
3	12	8	38
4	18		

**OPENING TORQUE (in lbs)**

Size	Torque	Size	Torque
2	110	5	588
2-1/2	185	6	714
3	252	8	1,260
4	378		

**FLUID FLOW COEFFICIENT Cv\* @ 90° OPEN**

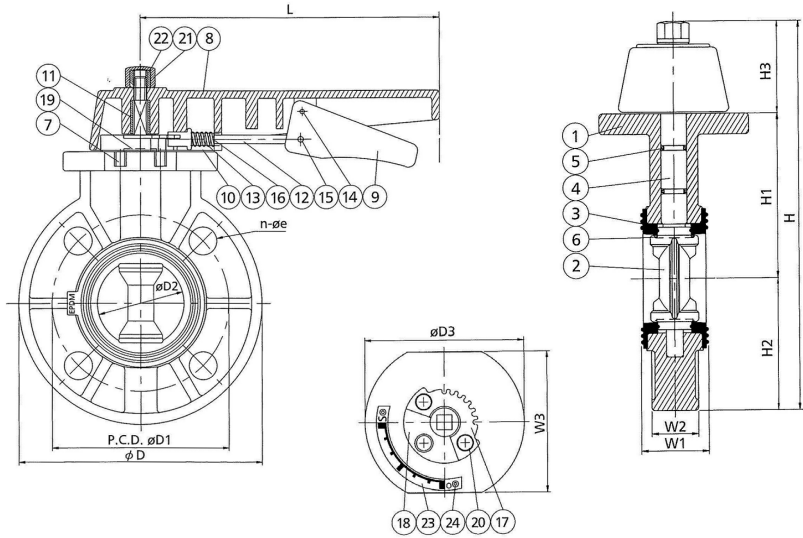
\*Gallons per minute @ 1 psi pressure drop

Size	Cv	Size	Cv
2	100	5	650
2-1/2	190	6	1,160
3	340	8	2,200
4	420		

COMPRESSED AIR WARNING

The products in this document are only intended for use in transferring or storing chemically compatible pressurized liquids. Do not test or use products in this document with compressed air or other gases. Doing so is dangerous and could cause injury or great bodily harm should a system fail under compressed air. Only use products that are specifically designed for compressed air/gas service. Call Colonial technical service for more information.

AIR/GAS



**DIMENSIONS (Inches)**

Size	2	2-1/2	3	4	5	6	8
D	6.50	7.28	7.87	9.02	10.12	11.22	13.50
D1	4.76	5.51	5.98	7.52	8.50	9.49	11.73
D2	2.22	2.74	3.13	4.04	5.12	6.02	7.99
D3	4.13	4.72	4.84	5.31	6.46	6.65	7.91
L	7.83	7.83	7.83	9.92	11.69	11.69	11.69
H	9.78	10.53	10.91	12.44	14.70	15.93	18.29
H1	4.06	4.45	4.53	5.33	6.50	6.97	8.27
H2	3.25	3.64	3.94	4.51	5.06	5.61	6.75
H3	2.48	2.44	2.44	2.60	3.15	3.27	3.27
W1	1.69	1.81	1.81	2.20	2.72	2.78	3.35
W2	1.38	1.42	1.42	1.85	2.24	2.44	2.99
W3	3.70	3.70	3.70	3.94	4.33	4.33	4.80
n-ø-e	4 - .75	4 - .75	4 - .75	8 - .75	8 - .87	8 - .87	8 - .87
wgt/lbs	2.4	2.8	3.3	5.3	8.5	12.2	14.0

**PARTS AND MATERIALS**

Part Letter	Material	Part Letter	Material
1 Body	PVC, CPVC, PP, PVDF	13 Spring	SUS 304
2 Disc	PVC, CPVC, PP, PVDF	14 Spring Pin	SUS 304
3 Seal	EPDM, FKM, Buna	15 Spring Pin	SUS 304
4 Stem	SUS 410	16 Washer	SUS 304
5 Stem O-Ring	EPDM, FKM, Buna	17 Locking Plate	SUS 304
6 Disc O-Ring	EPDM, FKM, Buna	18 Gear Seat	PP+GF, PVC, PVDF
7 Inserted Nut	C3604	19 Washer	SUS 304
8 Large Handle	PP	20 Bolt	SUS 304
9 Small Handle	PP	21 Nut	PVC, PVDF
10 Spring Lock	PP	22 Insert Nut	C3604
11 Handle Insert	Stainless Steel	23 Lever	SUS 304
12 Handle Lever	SUS 304	24 Rivet	Stainless Steel

**SIZE & PART NUMBERS**

SIZE	PVC/EPDM	PVC/Buna-N	PVC/FKM	CPVC/EPDM	CPVC/FKM
2	V20411N	V20415N	V20412N	V20413N	V20414N
2-1/2"	V27411N	V27415N	V27412N	V27413N	V27414N
3	V30411N	V30415N	V30412N	V30413N	V30414N
4	V40411N	V40415N	V40412N	V40413N	V40414N
5	V50411N	V50415N	V50412N	V50413N	V50414N
6	V60411N	V60415N	V60412N	V60413N	V60414N
8	V80411N	V80415N	V80412N	V80413N	V80414N