



**Type 75 Butterfly Valve**

**Specifications**

**Sizes:** 18" - 24"  
**Models:** Wafer Style  
**Operators:** Gear  
**Bodies:** PP and PVDF  
**Discs:** PP and PVDF  
**Seats:** EPDM, FKM and Nitrile  
**Seals:** Same as seating material  
**Stems:** 403 and 316 stainless steel, titanium, Hastelloy C<sup>®†</sup>, etc.

† Trademark of Cabot Corporation

**Standard Features (Sizes 18" - 24")**

- Standard model (18" - 24") has polypropylene body, disc and EPDM seat.
- 403 stainless steel stem has full engagement over the entire length of the disc and is a non-wetted part totally isolated from the media.
- Bubble-tight seating.
- Only abrasion resistant, solid plastic disc and elastomeric liner are wetted parts

**Options:**

- Pneumatically and electrically actuated with accessories
- Lug style (Stainless Steel 304 and 316) as blocking and end-of-line applications
- Stems in 316 Stainless Steel, Titanium, Hastelloy C<sup>®</sup> etc.
- 2" square nut on gear
- Stem extensions (single stem and two-piece stem)
- Locking device
- Chain operators
- Manual limit switch

**Caution**

- Never remove valve from pipeline under pressure.
- Always wear protective gloves and goggles.

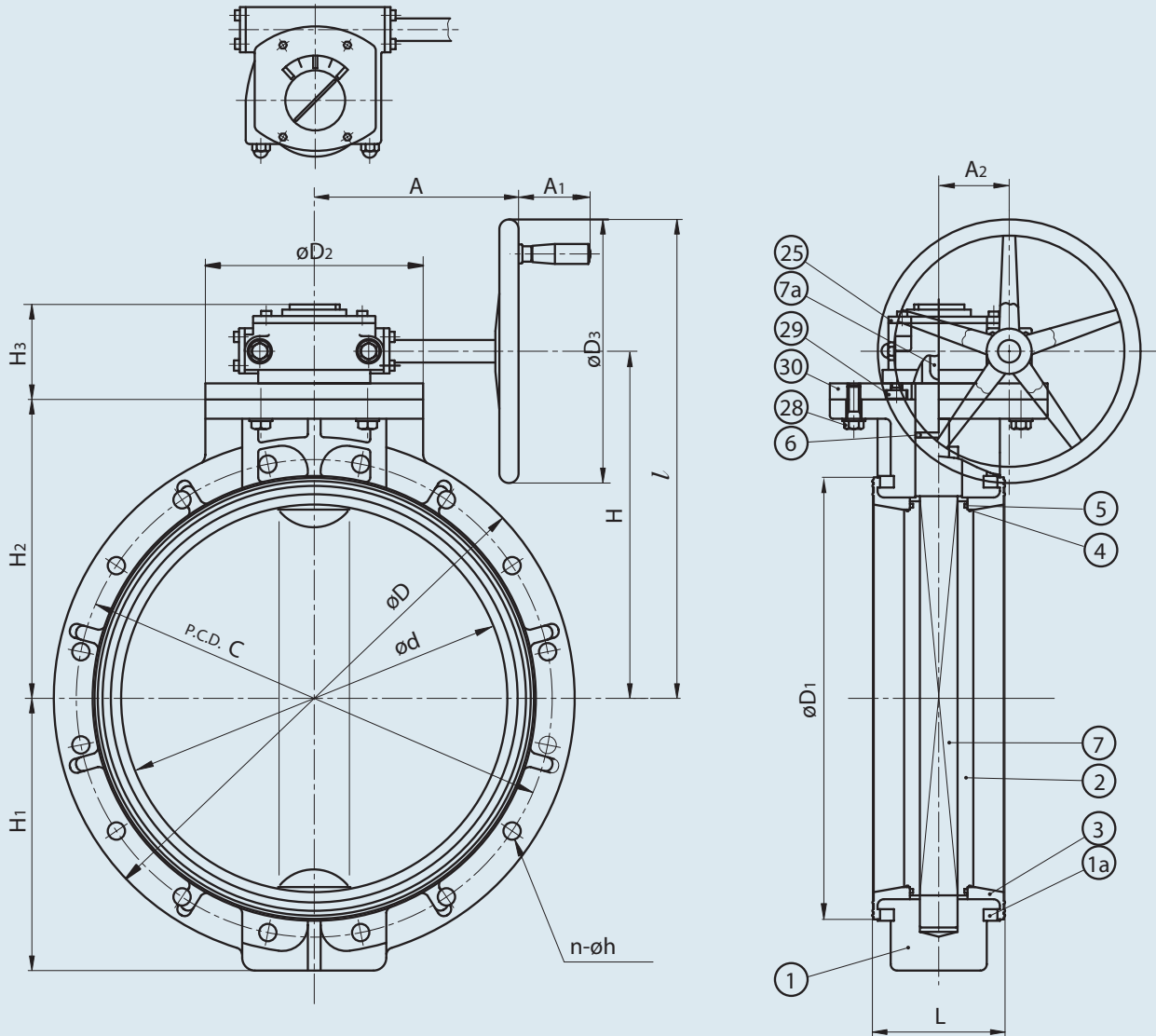
**Parts List (Sizes 18" - 24")**

PARTS			
NO.	DESCRIPTION	PCS.	MATERIAL
1	Body	1	PP, PVDF
2	Disc	1	PP, PVDF
3	Seat	1	EPDM, FKM, Others
4	O-Ring (A)	2	EPDM, FKM, Others
5	O-Ring (B)	2	EPDM, FKM, Others
6	O-Ring (C)	1	EPDM, FKM, Others
7	Stem	1	Stainless Steel, 403
7a	Key (A)		Stainless Steel, 403
25	Gear Box	1	Cast Iron
28	Bolt (A)	4	Stainless Steel 304
29	Bolt (D)	4	Stainless Steel 304
30	Stand	1	Steel
1a	Ring	2	Steel

**Sample Specification**

All solid thermoplastic butterfly valves (18" thru 24") shall be of the lined body design and bubble-tight seal (meeting or exceeding Class VI as defined by American National Standard Institute) with only the liner and disc as wetted parts. The disc shall be of solid, abrasion-resistant plastic, have double o-ring seals on top and bottom trunnions of the same material as the valve liner. Liner shall be molded and formed around the body, functioning as a gasket seal with convex ring design on each side of the valve for lower bolt tightening torque. Stem shall be of 403 stainless steel, non wetted and have engagement over the full length of the disc. PP shall conform to ASTM D4101 Cell Classification PPO210B67272 and PVDF conforming to ASTM D3222 Cell Classification Type II. PP and PVDF bodies shall be rated to 75 psi, size 18", and 50 psi, sizes 20" and 24" at 70° F. Butterfly valves shall be wafer style, as manufactured by Asahi/America Inc.

FOR TROUBLESHOOTING, REFER TO PAGE 39.



## Dimensions (Sizes 18" - 24")

NOMINAL SIZE		ANSI CLASS 150					D												
INCHES	mm	d	C	n	h	PP	PVDF	D1	D2	D3	L	H	H1	H2	H3	<i>l</i>	A	A1	A2
18	450	17.80	22.75	16	1.25	24.92	24.80	20.67	13.39	16.14	7.05	17.52	12.40	14.57	6.22	25.59	12.56	3.35	4.33
20	500	19.76	25.00	20	1.25	26.89	26.77	22.64	13.39	16.14	7.48	18.70	13.78	15.75	6.22	26.77	12.56	3.35	4.33
24	600	23.74	29.50	20	1.38	31.22	31.10	27.01	13.39	16.14	8.23	21.26	16.69	18.31	6.22	29.33	12.56	3.35	4.33

## Cv Values

## Wt.(LBS)/ Vacuum Service/ Pressure vs. Temperature (PSI, WATER)\*

NOMINAL SIZE		Cv (at various opening degrees)			NOMINAL SIZE		GEAR	NOMINAL SIZE		VACUUM SERVICE (inches of Mercury)	BODY		PP		PVDF					
INCHES	mm	30°	60°	90°	INCHES	mm		INCHES	mm		INCHES	mm	Disc		PP		PVDF			
												NOMINAL SIZE		-5 F°	141 F°	-5 F°	141 F°	176 F°	211 F°	
														140 F°	175 F°	140 F°	175 F°	210 F°	250 F°	
18	450	1100	5020	10890	18	450	195.00	18	350	-19.69	18	450	75	45	75	45	30	15		
20	500	1448	6620	14060	20	500	232.00	20	500	-19.69	20-24	500-600	75	30	75	30	25	15		
24	600	2130	9180	18500	24	600	285.00	24	600	-19.69										

\* For lug style data consult factory