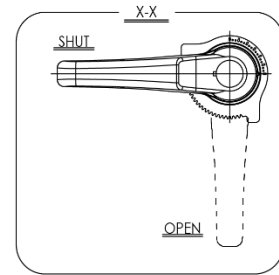
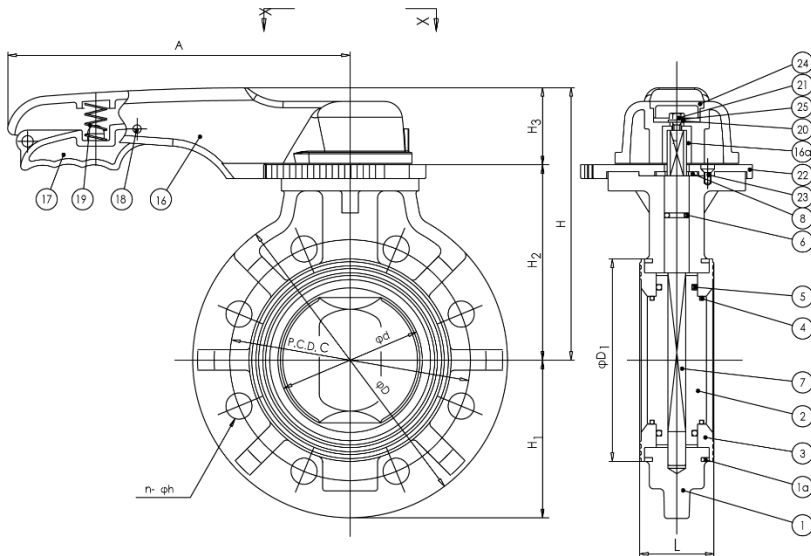


Pool-Pro® Type SP Butterfly Valve

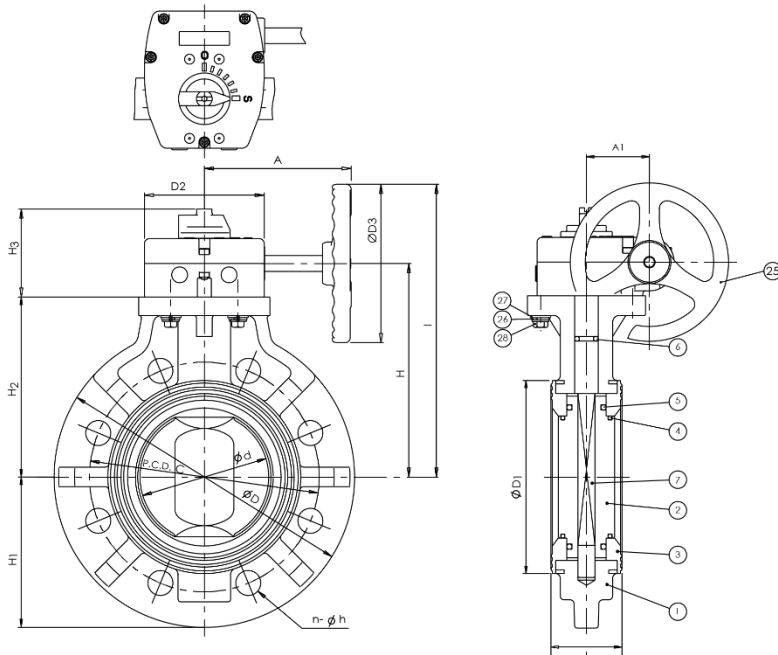
The Pool-Pro® butterfly valve is intended and warranted for swimming pool applications only

Parts Identification - Lever



25	SPLIT LOCK WASHER	1	STAINLESS STEEL 304	
24	CAP (A)	1	PP	
23	SCREW (B)	4	STAINLESS STEEL 304	
22	LOCKING PLATE	1	PPG	
21	BOLT (B)	1	STAINLESS STEEL 304	
20	WASHER (A)	1	STAINLESS STEEL 304	
19	SPRING	1	STAINLESS STEEL 304	
18	PIN	1	PPG	
17	HANDLE LEVER	1	PPG	
16α	INSERTED METAL OF HANDLE	1	STAINLESS STEEL 316	
16	HANDLE (A)	1	PP	
8	STEM HOLDER	1	□ STAINLESS STEEL 304	
7	STEM	1	□ S32101	
6	O-RING (C)	1	□ EPDM	1) USED FOR SIZE 2" -8"
5	O-RING (B)	2		
4	O-RING (A)1	2		
3	SEAT	1		
2	DISC	1	BODY / DISC □ PVC / PVC	
1	BODY	1		
No.	DESCRIPTION	No. REQ'D	MATERIAL	REMARKS

Parts Identification – Gear



28	BOLT (C)	4	□ STAINLESS STEEL 304	
27	FLAT WASHER	4	□ STAINLESS STEEL 304	
26	SPLIT LOCK WAHSER	4	□ STAINLESS STEEL 304	
25	GEAR BOX	1	ENGINEERED RESIN	
7	STEM	1	□ S32101	
6	O-RING (C)	1	□ EPDM	
5	O-RING (B)	2		
4	O-RING (A)2	2		
3	SEAT	1		
2	DISC	1	BODY / DISC □ PVC / PVC	
1	BODY	1		
No.	DESCRIPTION	No. REQ'D	MATERIAL	REMARKS

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Installation Procedure

- 1) Install the valve between flanges with the valve slightly open. (Refer to Fig. 1)
- 2) Insert bolts, nuts and washers and tighten the bolts and nuts temporarily by hand.
- 3) Open the valve fully to check for pipe interference before fully tightening the bolts.

The parallelism and axial misalignment of the flange surface should be under the values shown in the following table (Refer to Table 1) to prevent damage to the valve.

Table 1

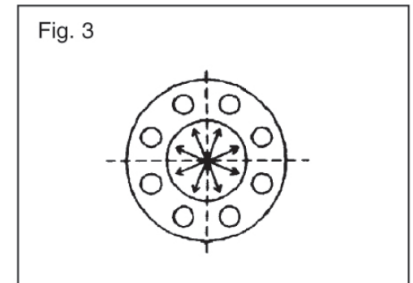
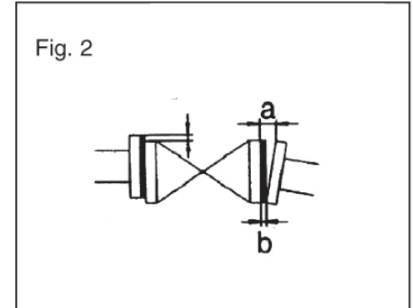
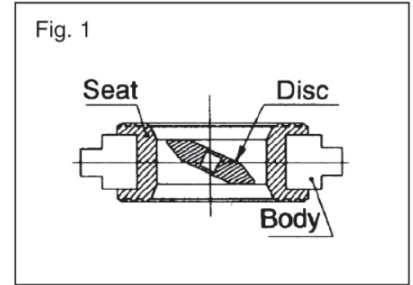
Nominal Size (inch)	Axial Misalignment	Parallelism (inch)
1-1/2" – 3"	0.04	0.03
4" – 6"	0.04	0.04
8" – 12"	0.06	0.04

(Refer to Fig. 2)

- 4) Tighten the bolts and nuts gradually with a torque wrench to the specified torque level in a diagonal manner. (Refer to Table 2 and Figure 3)

Table 2 Recommended Torque Value

Nominal Size (inch)	Torque Value	Nominal Size	Torque Value (foot-lbs)
1-1/2"	14	8" – 10"	40
2" – 2-1/2"	16	12"	43
3" – 4"	22		
6"	32		

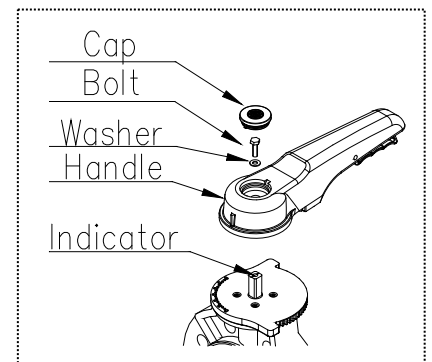


Installation Procedure for Handle

Install the handle on the stem. Set the direction of handle in the indication line at the top of stem.

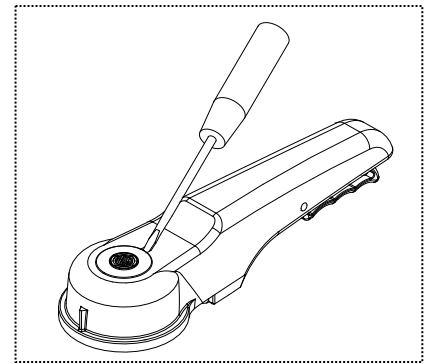
- 1) Secure the handle at the top of the stem with the enclosed bolt and washer by using a socket wrench.
- 2) Set the cap on top of the handle and gently strike it with a rubber or plastic hammer, until it is seated.

Nominal Size	40-100mm (1-1/2"-4")	125-200mm (5"-8")
Bolt Size	M6 × 15L	M8 × 15L
Socket Size	10mm	13mm



Removal Procedure for Handle

- 1) To remove the cap, insert a screwdriver into the indentation, then push down and pry out.
- 2) Remove the bolt and washer by using a socket wrench, then remove the handle.



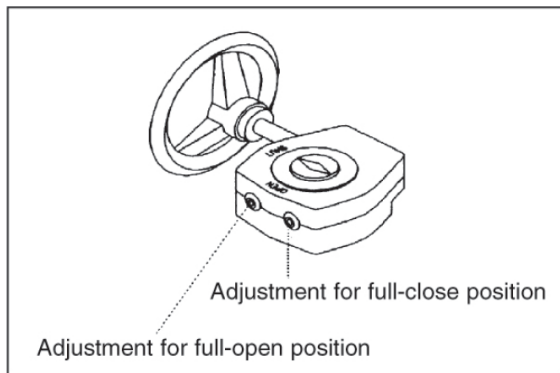
Caution

Wear protective gloves and goggles in case some dangerous fluid remains in the valve body. (You might be injured by working without them.)

The handle part (16) can be removed with line pressure present. The locking plate (22) can't be removed with line pressure present. If locking plate (22) needs to be removed, there cannot be line pressure present.

Adjustment Procedure for Travel Stop Gear Type

The adjustments for full-opened and full-closed position are preset at the factory. If adjustment is required refer to the following procedure:



Working Pressure vs. Temperature

Body	PVC
Disc	PVC
Nominal Size (inch)	30° F 120° F
1-1/2" – 3"	150
4" – 6"	150
8" – 10"	150
12"	100

Adjustment for Full-Closed (Full-Opened) Position

- 1) Remove the protective rubber caps.
- 2) Loosen the stop hex-bolt with an alien wrench.
- 3) Adjust the disc of valve to the required position.
- 4) Tighten the stop hex-bolts.
- 5) Replace the protective rubber caps.

Caution

Wear protective gloves and goggles in case some dangerous fluid remains in the valve body. (You might be injured by working without them.)

The gear operator (25) cannot be removed with line pressure present. If the gear box parts (25) need to be removed, there cannot be line pressure present.

Operating Procedure

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- √ Open and close the valve by turning handle slowly. Turn clockwise to close and counterclockwise to open.
- √ Lever type, the direction of handle is same as the disc.
 - For the full-closed position, the handle is perpendicular to the piping system.
 - For the full-opened position, the handle is parallel to the piping system.
- √ Gear type, the indicator shows the position of the disc on the top of gear box.
 - For the full-closed position, the indication shows Shut.
 - For the full-opened position, the indication shows Open.

General Operating Instructions

- √ Operate the valve within the Pressure Vs Temperature range.
 - (The valve can be damaged by operating beyond the allowable range.)
- √ Select a valve material that is compatible with the media, refer to "CHEMICAL RESISTANCE ON ASAHI AV VALVE".
 - (Some chemicals may damage incompatible valve materials.)
- √ Do not step on the valve or apply excessive weight on the valve. (It can be damaged.)
- √ Allow sufficient space for maintenance and inspection.
- √ Keep the valve away from excessive heat or fire. (It can be deformed or destroyed.)
- √ Make sure to consult a waste treatment dealer to dispose of the valves.
 - (Poisonous gas is generated when the valve is burned improperly.)

Caution: Do not change or replace valve parts under line pressure. An O&M Manual is available upon request.