

Standard Features

- · Highly corrosion resistant PTFE disc and seat
- Epoxy powder coated ductile iron body for corrosive atmosphere or environments
- Strong but thin disc with high Cv value
- Stainless steel stem has full engagement over the entire length of the disc and is a nonwetted part, totally isolated from the media
- Only PTFE disc and PTFE seat are wetted parts
- Bubble-tight shut-off
- · Rated for full vacuum service
- Locking device
- 21-position throttle plate for lever handle style

Options

- Pneumatically or electrically actuated with accessories
- Gear operators for 2" 5"
- 2" square nut on valve stem
- 2" square nut on gear
- Stem extensions (single stem and two-piece stem)
- Chain operators
- Manual limit switch

Caution

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

Specifications

Sizes: 2" - 10"

Models: Wafer Style

Operators: Lever: 2" - 5"

Gear: 2" - 10"

Bodies: Epoxy powder coated ductile cast

iron

Discs: PTFE

Seals: PTFE backed with Neoprene®†
Seals: Same as seating material

Stems: Stainless steel 304

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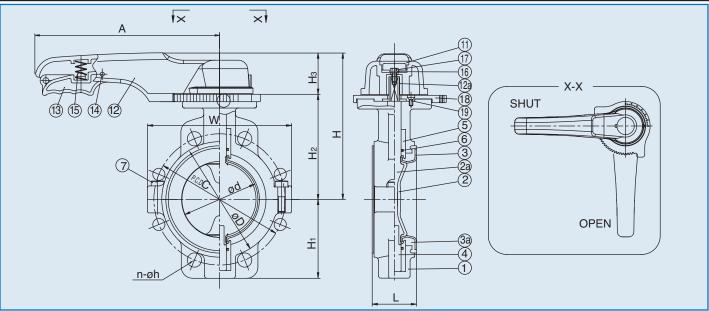
Parts List (Lever: Sizes 2" - 5")

PARTS									
NO.	DESCRIPTION	PCS.	MATERIAL						
1	Body	1	Ductile Cast Iron*						
2	Disc	1	PTFE						
2a	Disc Insert	1	Stainless Steel 304						
3	Seat	1	PTFE						
За	Cushion Rubber	1	CR						
4	Stem	1	Stainless Steel 304						
5	Bush	2	Stainless Steel 304						
6	0-Ring	2	EPDM						
7	Bolt (A)	-	Stainless Steel 304						
11	Cap	1	PP						
12	Handle	1	PP						
12a	Handle Metal Insert	1	Stainless Steel 316						
13	Handle Lever	1	PPG						
14	Pin	1	PPG						
15	Spring	1	Stainless Steel 304						
16	Washer	1	Stainless Steel 304						
17	Bolt (C)	1	Stainless Steel 304						
18	Locking Plate	1	PPG						
19	Screw	4	Stainless Steel 304						

^{*}With epoxy powder coating.



Type-55 Lever



Dimensions (Sizes 2" - 5") (in.)

NOMINA	AL SIZE		ANSI CLASS 150										
INCHES	mm	d	С	n	h	D	L	н	Н1	Н2	Н3	W	Α
2	50	2.17	4.75	2(4)	0.75	3.54	1.73	6.34	2.40	4.13	2.20	4.57	8.66
3	80	3.15	6.00	-(4)	0.75	4.92	2.13	7.09	3.74	4.88	2.20	5.98	9.84
4	100	3.94	7.50	4(8)	0.75	6.06	2.32	7.72	3.90	5.51	2.20	6.85	9.84
5	125	4.92	8.50	4(8)	0.88	7.13	2.52	9.25	4.72	6.54	2.72	8.11	12.60

Note: The shape and appearance of assembly differ a little with nominal size compared to this drawing.

Cv Values

NOMIN	Cv			
INCHES	mm	CV		
2	50	100		
3	80	285		
4	100	600		
5	125	940		
6	150	1500		
8	200	2500		
10	250	4200		

Weight (lbs,)

NOMINA	AL SIZE	LEVER	GEAR		
INCHES	mm	LEVER			
2	50	6.61	11.02		
3	80	9.92	14.33		
4	100	13.23	17.64		
5	5 125		25.35		
6	6 150		31.97		
8	8 200		50.71		
10	10 250		73.85		

Troubleshooting

What if fluid still flows when valve is closed?

- Make sure lever or gear is in a fully closed position (gear type may require travel stop adjustment).
- 2. Liner is damaged or worn. Replace liner.
- 3. Disc is damaged or abraded. Change disc.
- 4. Foreign material is caught between seat and disc. Remove the substance.
- 5. Mating flange bolts either overtightened or unevenly tightened. Retighten properly.

Pressure vs Temperature

NOMIN	-5° F			
INCHES	mm	210° F		
2	50	150		
3	80	150		
4	100	150		
5	125	150		
6	150	150		
8	200	150		
10	250	150		

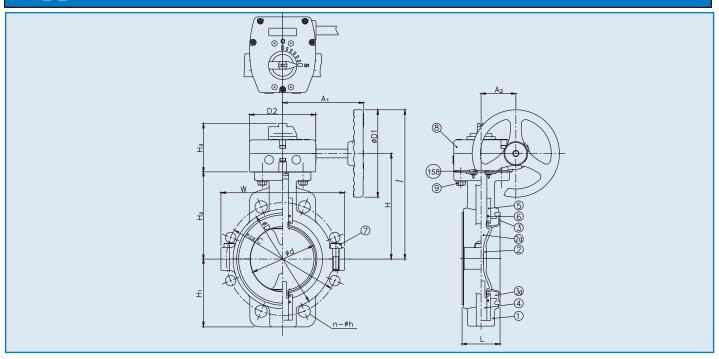
What if fluid leaks outside between seat and mating flange?

- 1. Seat damage. Change seat.
- 2. Mating flange bolts not tightened to proper torque or unevenly tightened. Retighten to the appropriate torque.

What if valve does not operate smoothly?

- 1. Foreign material is caught between disc and seat. Remove the material and clean.
- 2. Lever or gearbox is damaged. Replace.
- 3. Mating flange bolts overtightened. Retighten.

Type-55 Gear



Dimensions (Sizes 2" - 10") (in.)

NOMINA	L SIZE		ANS	CLASS	150												
INCHES	mm	d	С	n	h	D	D1	D2	L	Н	H1	H2	НЗ	l	w	A1	A2
2	50	2.17	4.75	2(4)	0.75	3.54	6.30	4.80	1.73	5.29	2.40	3.94	3.54	8.49	4.57	6.57	2.52
3	80	3.15	6.00	- (4)	0.75	4.92	6.30	4.80	2.13	6.04	3.74	4.69	3.54	9.24	5.98	6.57	2.52
4	100	3.94	7.50	4(8)	0.75	6.06	6.30	4.80	2.32	6.66	3.90	5.31	3.54	9.86	6.85	6.57	2.52
5	125	4.92	8.50	4(8)	0.88	7.13	6.30	4.80	2.52	7.57	4.72	6.22	3.54	10.77	8.11	6.57	2.52
6	150	5.91	9.50	4(8)	0.88	8.31	6.30	4.80	2.95	8.24	5.39	6.89	3.54	11.44	9.29	6.57	2.52
8	200	7.52	11.75	4(8)	0.88	10.43	6.30	4.80	3.35	9.42	6.42	8.07	3.54	12.62	11.10	6.57	2.52
10	250	9.65	14.25	4(12)	1.00	12.80	6.30	4.80	3.78	10.80	7.87	9.45	3.54	14.00	13.43	6.57	2.52

Note: The shape and appearance of assembly differ a little with nominal size compared to this drawing

Parts List (Gear: Sizes 2" - 10")

PARTS										
NO.	DESCRIPTION	PCS.	MATERIAL							
1	Body	1	Ductile Cast Iron*							
2	Disc	1	PTFE							
2a	Disc Insert	1	Stainless Steel 304							
3	Seat	1	PTFE							
За	Cushion Rubber	1	CR							
4	Stem	1	Stainless Steel 304							
5	Bush	2	Stainless Steel 304							
6	0-Ring	2	EPDM							
7	Bolt (A)	-	Stainless Steel 304							
8	Gear Box	1	Plasgear ™							
9	Bolt (B)	4	Stainless Steel 304							
158	Gasket	1	EPDM							

^{*}With epoxy powder coating

Sample Specification

All Type-55 butterfly valves shall be of epoxy powder coated ductile cast iron 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 lever handle (sizes 2" through 5") shall have a molded provision for a padlock. Gear operators shall be worm gear design, self-locking, with Plasgear™ plastic gear box. Valves shall have a molded ISO bolt pattern conforming to 5211/I on top flange for actuator mount. The disc shall be of PTFE. Liner shall be of PTFE with Neoprene® backing cushion. Stem shall be of stainless steel, non-wetted and have engagement over the full length of the disc. The butterfly valves shall be wafer style. Valves shall be rated to 150psi from -5° F to +210° F, as manufactured by Asahi/America, Inc.