

Type 57 LIS Butterfly Valves Standard Features (Sizes 3" - 8")

- Direct Replacement for metal valves conforming to ISO-5752 Short Face to Face dimensions.
- Standard model has PVC body with PP disc for superior chemical and corrosion resistance as well as elevated temperature capabilities.
- Non-wetted 316 SS stem has full engagement over the entire length of the disc and is totally isolated from the media.
- Full seat design isolates the body and stem from the media and acts as mating flange gaskets
- Integral body stops in valve body to prevent overtightening of mating flanges
- Spherical disc design for improved CV's and superior durability
- Integral locking lever handle w/21 position throttling plate
- Plasgear™ operator Industry first composite enclosure gear-operator
- Integral ISO-5211 top mounting pad for actuation
- Polypropylene stem retainer to prevent stem removal

Options

- 316 SS lug inserts for end-of line service
- Pneumatic and electric actuators with accessories
- Alternate disc materials
 - (I) PVC
 - (II) CPVC
 - (III) PVDF
- Alternate stem materials
 - (I) Titanium
 - (II) Hastelloy
- 2" square operating nuts on valve stem or gear operator
- Stem extensions for above ground or buried applications
- Chain operators
- Manual limit switches

Specifications

Sizes: Lever: 3" - 8"

Gear: 3" - 8"

Models: Wafer Style or Lug Style with

316SS lug inserts

Operators: Lever and Plasgear

Bodies: PVC

> Discs: PVC, CPVC, PP and PVDF Seats: EPDM, FKM, or Nitrile Seals: Same as seating material Stems:

316 stainless steel. Titanium, Hastelloy C[®] ‡

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Parts List (Lever: Sizes 3" - 8")

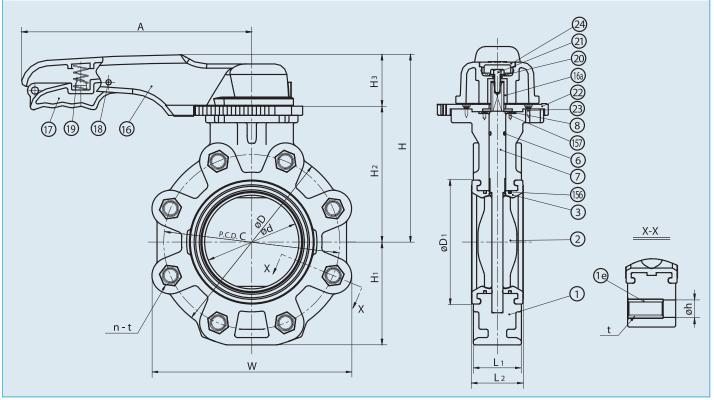
PARTS									
NO.	DESCRIPTION	PCS.	MATERIAL						
1	Body	1	PVC						
1a	Lug	-	Stainless Steel 316						
2	Disc	1	PVC, CPVC, PP, PVDF						
3	Seat	1	EPDM, FKM, NBR						
6	O-Ring (C)	1	EPDM, FKM, NBR						
7	Stem	1	Stainless Steel 316						
8	Stem Retainer	1	PP						
16	Handle	1	PP						
16a	Metal Insert in Handle	1	Stainless Steel 316L						
17	Handle Lever	1	PPG						
18	Pin	1	PPG						
19	Spring	1	Stainless Steel 304						
20	Washer (A)	1	Stainless Steel 304						
21	Bolt (B)	1	Stainless Steel 304						
22	Locking Plate	1	PPG						
23	Screw (B)	4	Stainless Steel 304						
24	Cap (A)	1	PP						
156	Stabilization Ring	2	Stainless Steel (SCS13)						
157	Screw (F)	4	Stainless Steel 304						

^{*}Supplied installed with Lug Style Valves only

Caution

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

Type 57 LIS Lever Butterfly Valves



Dimensions (Lever: Sizes 3" - 8")

NOM SI			ANSI	CLAS:	S 150												
INCHES	mm	d	С	n	h	D	D1	L	L2	Н	H1	H2	Н3	Α	W	Т	t
3	80	3.03	6.00	4	0.75	7.28	4.13	1.73	1.81	7.52	3.82	5.31	2.20	9.84	7.09	1.26	5/8-11UNC
4	100	4.02	7.50	8	0.75	8.27	5.28	2.05	2.20	8.11	4.41	5.91	2.20	9.84	8.50	1.52	5/8-11UNC
6	150	5.91	9.50	8	0.87	10.63	7.48	2.20	2.80	9.92	5.55	7.20	2.72	12.60	10.67	1.57	3/4-10UNC
8	200	7.68	11.75	8	0.87	12.60	9.53	2.36	3.43	11.14	16.61	8.43	2.72	15.75	12.76	1.57	3/4-10UNC

Press vs. Temp

	BODY	PVC							
	DISC	PP							
N	OMINAL SIZE		121° F 140° F						
INCHES	mm	120 F	140 F	1/3 [
3	80	150	70	30					
4	100	150	45	30					
6	150	150	45	30					
8	200	150	40	20					

Cv Values

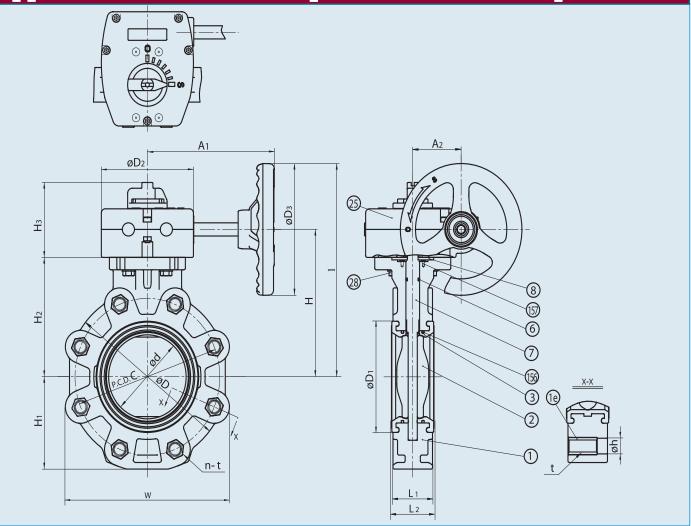
NOM SI		$$\operatorname{\textsc{CV}}$$ (at various opening degrees)							
INCHES	mm	30	60 [°]	90 [°]					
3	80	18	183	300					
4	100	28	287	470					
6	150	66	671	1100					
8	200	150	1525	2500					

Vacuum Service Wt. (LBS)

NOM SIZ		VACUUM SERVICE (INCHES OF MERCURY)
INCHES	mm	
3	80	-29.92
4	100	-29.92
6	150	-29.92
8	200	-29.92

NOM SIZ		LEVER OPERATED	GEAR OPERATED
INCHES	mm		
3	80	5	10
4	100	7	12
6	150	15	20
8	200	25	30

Type 57 LIS – Gear Operated Butterfly Valves



Dimensions (Gear: Sizes 3"-8")

NOM SI	IINAL ZE		ANSI	CLAS	S 150																	
INCHES	mm	d	С	n	h	D	D1	D2	D3	L1	L2	Н	H1	H2	Нз	ı	A1	A2	W	Т	t	Wheel Cycles
3	80	3.03	6.00	4	0.75	7.28	4.13	4.80	6.30	1.73	1.81	6.50	3.82	5.12	3.62	9.65	6.57	2.52	7.09	1.26	5/8-11UNC	9.5
4	100	4.02	7.50	8	0.75	8.27	5.28	4.80	6.30	2.05	2.20	7.09	4.41	5.71	3.62	10.24	6.57	2.52	8.50	1.52	5/8-11UNC	9.5
6	150	5.91	9.50	8	0.88	10.63	7.48	4.80	6.30	2.20	2.40	8.27	5.55	6.89	3.62	11.42	6.57	2.52	10.67	1.57	3/4-10UNC	9.5
8	200	7.68	11.75	8	0.88	12.60	9.53	4.80	6.30	2.36	2.66	9.49	6.61	8.11	3.62	12.64	6.57	2.52	12.76	1.57	3/4-10UNC	9.5

Parts List (Gear: 3" - 8") Sample Specification

PARTS									
NO.	DESCRIPTION	PCS.	MATERIAL						
1	Body	1	PVC						
1e	Lug	-	Stainless Steel 304, 316						
2	Disc	1	PVC, PP, PVDF						
3	Seat	1	EPDM, FKM, NBR						
6	O-Ring (C)	1	EPDM, FKM, NBR						
7	Stem	1	Stainless Steel 316						
8	Stem Retainer	1	PP						
25	Gear Box	1	Plasgear™						
28	Bolt (C)	4	Stainless Steel 304						
156	Stabilization Ring	2	Stainless Steel (SCS13)						
157	Screw (F)	4	Stainless Steel 304						

^{*} Supplied installed with Lug Style Valves only

All Type 57 LIS butterfly valves shall be of solid thermoplastic lined body design with only the disc and seat as wetted parts. The face to face dimension shall be in accordance to ISO-5752 Short face to face dimensions. All valves shall meet class 6 bubble tight shut-off standards. Operators shall be either molded PP lever handles with PPG trigger and 21 position throttle plate or Plasgear™ plastic enclosure gear-operators. The lever handle shall feature a molded provision for padlocking. Valves shall feature spherical design discs for improved CV's and lower seating torque. Seats or Liners shall be molded and formed around the the valve body, and provide a gasket face for mating flanges. The valve body shall include molded body stops to prevent mating flange overtightening. Valves shall be molded wafer style and accept 316

SS factory installed Lug inserts. Lug style valves shall be capable of having the downstream flange removed while maintaining full line pressure on the upstream side. Valve stems shall be 316 SS and have full engagement over the entire length of the disc. Valves shall feature molded ISO-5211 top flange bolt patterns for actuation mounting. PVC shall conform to ASTM D1784 Cell Classification (CC) 12454-A, CPVC to ASTM D1784 CC 23567A, PP to ASTM D4141 CC 0210B67272, and PVDF to ASTM D3222-91A CC Type II. All Type 57 LIS butterfly valves shall be rated to 150 psi at 70 F and be wafer or lug style as manufactured by Asahi/America Inc.

35 Green Street, P.O. Box 653, Malden, MA 02148 • Tel: 800-343-3618 • 781-321-5409 • Fax: 800-426-7058 • E-mail: asahi@asahi-america.com Register at our interactive web site for on line ordering, product availability, order tracking, and many useful features: www.asahi-america.com