

Type-57P Butterfly Valve Data Sheet



FEATURES:

- Spherical disc design ensures smooth flow control, reduced pressure loss
- Full disc engagement provides secure and reliable operation
- Full seat design eliminates the need for gaskets and includes overtightening prevention for valve integrity
- Visible position indicator, marked with 0° to 90° and including 19 fine adjustment positions for precise control
- Molded padlock provision enhances safety with lockout-tagout readiness
- ISO 5211 bolt circle for easy pneumatic or electric actuation mounting
- Non-wetted design isolates stem and body from media, improving corrosion resistance and durability

OPTIONS:

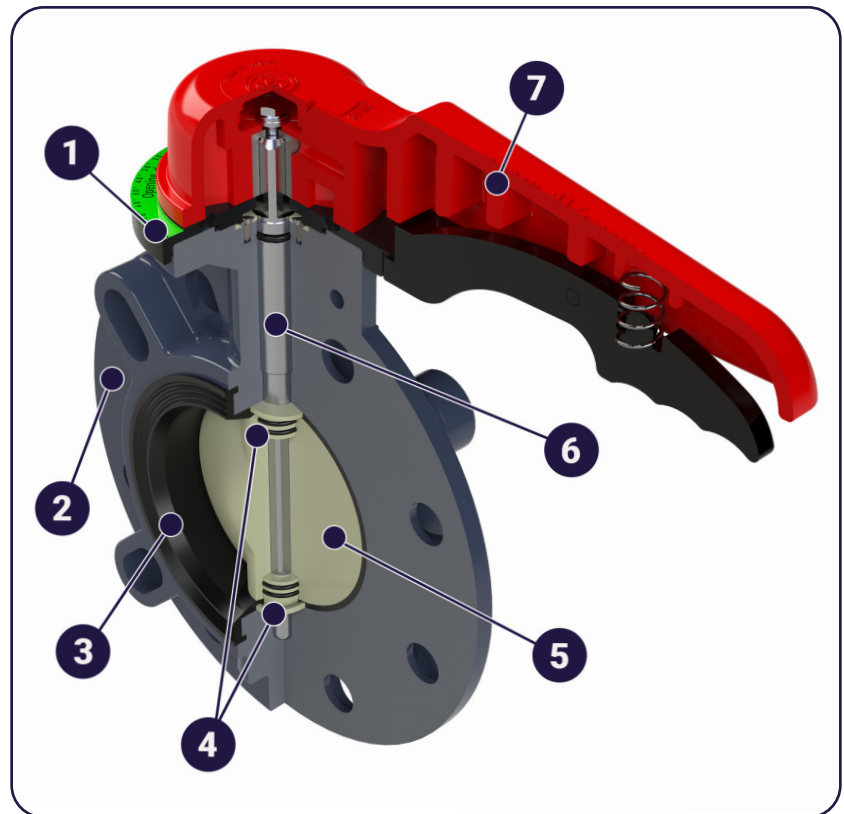
- Pneumatic and electric actuators and accessories
- Stem extensions
- 2" square operating nut
- Chain operators
- Manual limit switches
- Speed Handle™ for Plasgear™ operator

SPECIFICATIONS:

SIZES:	Lever: 1-1/2" - 8" Gear: 1-1/2" - 14"
MODELS:	Wafer style
OPERATORS:	Lever and Gear
BODIES:	PVC, CPVC, PP, and PVDF
DISCS:	PVC, CPVC, PP, and PVDF
SEATS:	EPDM, FKM, FKM-F and Nitrile
SEALS:	Same as seating material
STEMS:	316 stainless steel, titanium, Hastelloy C [±]

PVC/PP/EPDM and PP/PP/EPDM models (all sizes)
NSF-61 Certified

± - Trademark of Cabot Corporation



1 Degreed position indicator

2 Molded body

3 Seat/mating flange gasket

4 Disc bushings

5 Disc

6 316 stainless steel stem

7 Lever handle

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Data Sheet

PRESSURE VS. TEMPERATURE (PSI, WATER, NON-SHOCK)*:

Material		Temperature (F)	inches (mm)										
Body	Disc		1-1/2" (40)	2" (50)	2-1/2" (65)	3" (80)	4" (100)	5" (125)	6" (150)	8" (200)	10" (250)	12" (300)	14" (350)
PVC	PVC	30° - 120°	150	150	150	150	150	150	150	150	150	100	100
PVC	PP, PVDF	30° - 120°	150	150	150	150	150	150	150	150	150	100	100
		121° - 140°	70	70	70	70	45	45	45	40	40	30	30
CPVC	CPVC	30° - 140°	-	150	-	150	150	-	150	150	150	100	-
		141° - 160°	-	120	-	120	120	-	120	120	120	90	-
		161° - 176°	-	100	-	100	100	-	100	100	100	70	-
		177° - 195°	-	55	-	55	55	-	55	55	50	40	-
PP	PP, PVDF	-5° - 140°	150	150	150	150	150	150	150	150	150	100	100
		141° - 175°	100	100	100	100	100	100	100	85	85	60	45
PVDF	PVDF	-5° - 140°	150	150	150	150	150	150	150	150	150	100	100
		141° - 175°	100	100	100	100	100	100	100	85	85	60	45
		176° - 210°	85	85	85	85	85	85	85	75	75	45	30
		211° - 250°	75	75	75	75	75	75	75	60	60	30	15

* Butterfly valves with an FKM seat have a low temperature limit of 23° F, regardless of body/disc material.
For Lug style data, consult factory.

WEIGHTS (LBS.):

Material	Operator	inches (mm)										
		1-1/2" (40)	2" (50)	2-1/2" (65)	3" (80)	4" (100)	5" (125)	6" (150)	8" (200)	10" (250)	12" (300)	14" (350)
PVC	Lever	2.9	3.3	3.8	4.2	5.5	10.8	12.8	20.5	-	-	-
	Gear	7.5	7.7	8.4	8.6	10	14.3	16.3	23.6	32.4	61.7	67
CPVC	Lever	-	3.3	-	4.2	5.5	-	13	20.5	-	-	-
	Gear	-	7.8	-	8.6	10	-	16.5	24	35	65	-
PP	Lever	2.4	2.6	3	3.5	4.4	8.8	10.1	16.3	-	-	-
	Gear	6.8	7.3	7.5	8	8.8	12.3	13.7	19.6	27	53	58
PVDF	Lever	3	3.7	4.2	4.9	6.4	12.6	15.2	24.3	-	-	-
	Gear	7.7	8.4	8.8	9.3	10.8	16.1	18.7	27.6	41	76	81

CV VALUES:

Size		30° Open	60° Open	90° Open
inches	mm			
1-1/2"	40	4	43	71
2"	50	7	73	120
2-1/2"	65	15	153	250
3"	80	18	183	300
4"	100	28	287	470
5"	125	49	506	830
6"	150	66	671	1100
8"	200	150	1525	2500
10"	250	232	2355	3860
12"	300	342	3477	5700
14"	350	386	3928	6440

VACUUM SERVICE (INCHES OF MERCURY):

Size		Lever operator	Gear operator
inches	mm		
1-1/2"	40	-29.92	-29.92
2"	50	-29.92	-29.92
2-1/2"	65	-29.92	-29.92
3"	80	-29.92	-29.92
4"	100	-29.92	-29.92
5"	125	-29.92	-29.92
6"	150	-29.92	-29.92
8"	200	-29.92	-29.92
10"	250	-	-29.92
12"	300	-	-23.62
14"	350	-	-23.62