

Lug Style Butterfly Valve Type 365



General

- **Size:** 2"–12"
- **Clean:** High purity
- **Body Material:** Polyester coated ductile iron
- **Disk Material:** PFA encapsulated stainless steel
- **Liner:** PTFE
- **Body Style:** Lug
- **Connection:** ANSI 150
- **Operation:** Lever, gear

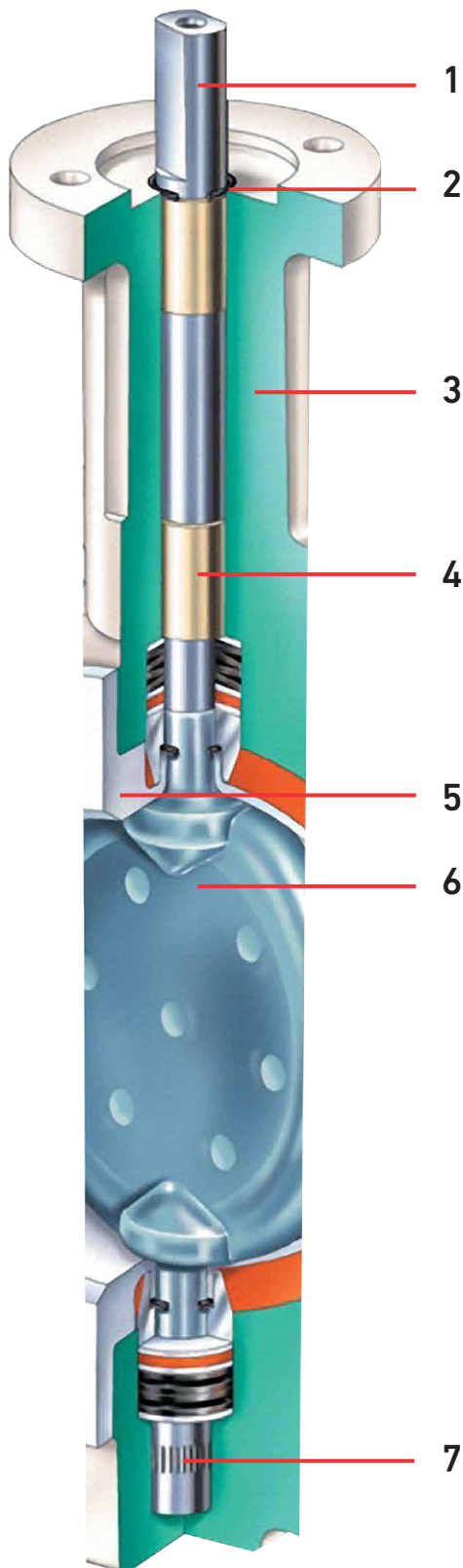
Key Certifications/Compliance

- **TA-Luft:** Shaft seal
- **ISO 5752/5 short (EN 558-1/T5):** PVDF liner
- **VDI 2440:** Shaft seal
- **EN-12266-1 Leakrate A:** Seal
- **ISO 5211:** Mounting
- **FDA 21CFR177.1550:** PTFE, PFA

Sample Specification

The Type 365 shall be a lug style butterfly valve rated for bidirectional use and dead end service. The disc material shall be PFA encapsulated stainless steel. The disc and shaft shall be single piece stainless steel and blow-out proof. The disc liner shall be constructed of virgin PTFE material with a minimum thickness of 3mm. All PTFE seals shall utilize a non-wetted elastomeric backing. The body shall be of a two piece design, constructed of ductile iron with a polyester coating. The shaft bearings shall be self lubricating. The shaft seals shall be of virgin PTFE material construction and Belleville disc springs shall compress these seals against disc hubs with a uniformly distributed load through pushers on both sides of the disc. Flange bolt patterns shall comply with ANSI B16.5 class 150 standards. All valves shall be cleaned and double bagged in a class 10,000 clean room. All valves shall be rated for bubble tight shut-off.

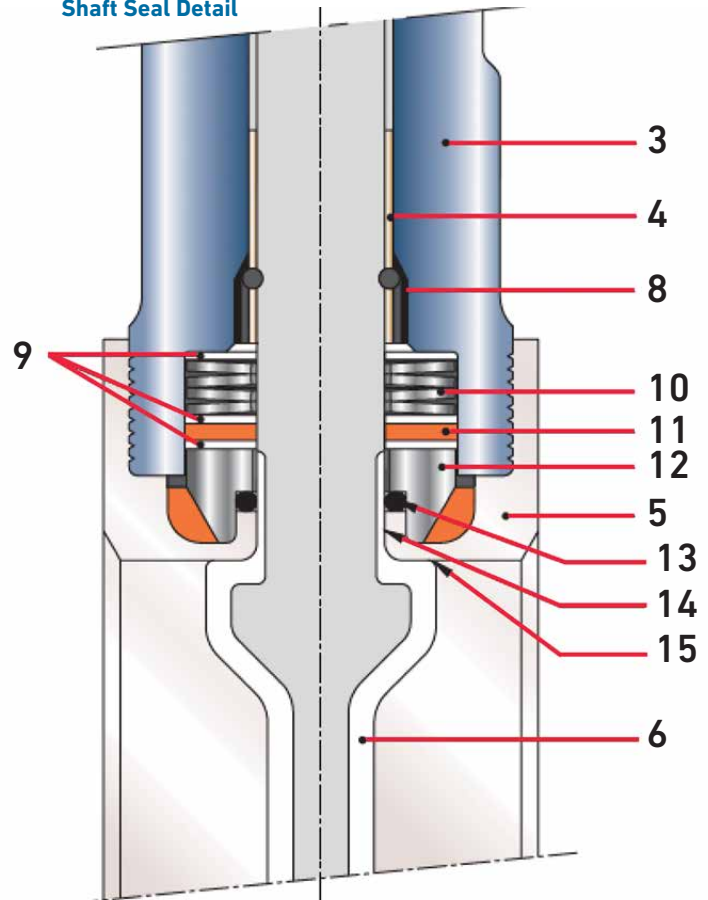
Valve Shaft Cross Section



Optional Features

- **Actuation:** Electric, pneumatic
- **Size:** 14" - 24" (double flanged)
- **Limit Switches:** Mechanical, inductive
- **Handle:** Stem extension
- **Operation:** Chain operator, square operating nut
- **Gear Operator:** Stainless steel housing
- **Hardware:** Alternatives available upon request

Shaft Seal Detail



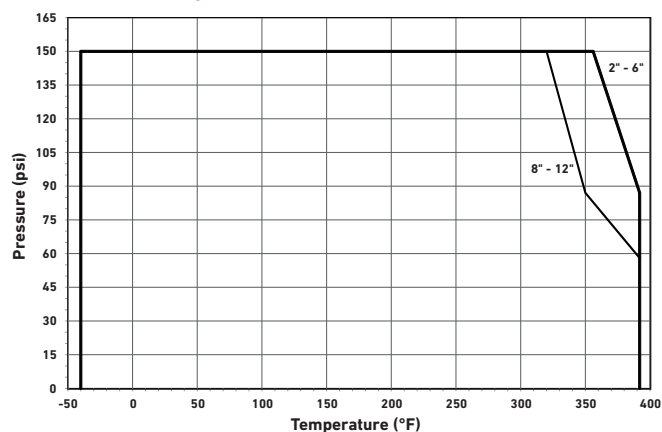
Components

Component	Description	Material
1	One piece disc/stem	Stainless steel
2	Atmospheric o-ring seal	FPM
3	Two piece body	Polyester coated ductile iron
4	Conductive bearing	Iglidur® X (Thermoplast)
5	Liner	Virgin PTFE
6	Disc encapsulation	PFA
7	Shaft base bearing	DU (Steel/PTFE)
8	Anti blow-out provision	Multiple
9	PTFE Washer	PTFE
10	Belleville washer	Spring steel
11	Backing washer	FPM
12	Pusher	Stainless steel
13	Pusher equalizer	FPM
14	Secondary radial lip seal	PFA/PTFE
15	Primary seal	PFA/PTFE

Technical Data

The following graphs are based on water or similar media applications

Pressure-Temperature Curve



Cv values

Size (Inch)	d (mm)	Cv (gal/min)
2	63	121
3	90	475
4	110	857
6	160	2,281
8	225	4,037
10	280	4,821
12	315	7,054

Breakaway Torque

Size (Inch)	d (mm)	Torque (ft-lb)
2	63	15
3	90	33
4	110	44
6	160	103
8	225	140
10	280	236
12	315	309

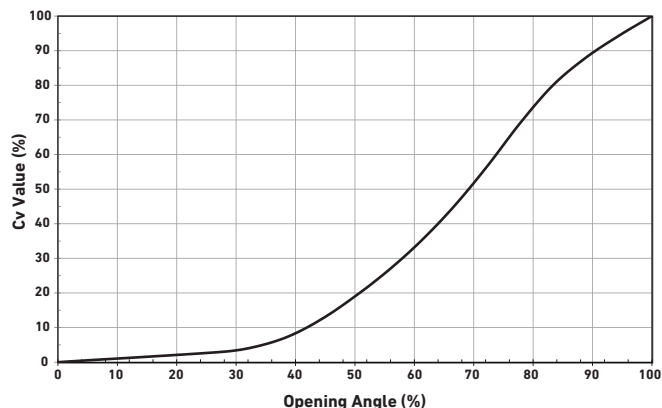
Weight

Size (Inch)	d (mm)	Weight (lb)
2	63	8
3	90	14
4	110	18
6	160	30
8	225	52
10	280	72
12	315	110

Pressure-Temperature

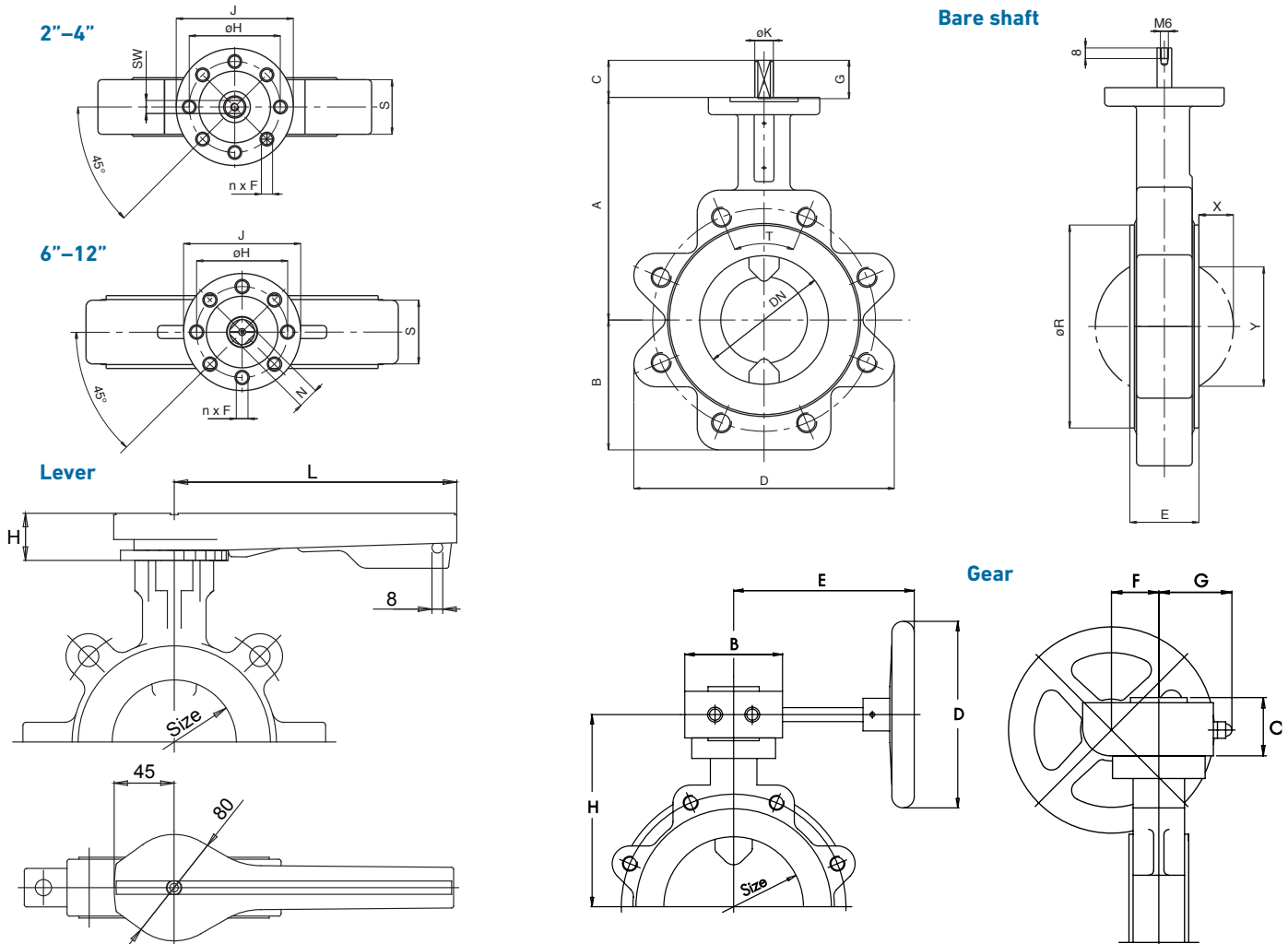
Size (inch)	Temperature Range (°F)	Max Pressure (psi)
2"-12"	-40 to 392	150

Flow Characteristics



Dimensions

The following tables are shown in millimeters unless otherwise specified



Bare Shaft

Size (inch)	d (mm)	ISO	A	B	C	D	E	n x F	G	øH	øJ	øK	øR	X	Y	N	SW
2	63	F05	135	65	26	160	43	8 x ø7	27	50	65	15	95	5	31	-	10
3	90	F07	160	93.5	29	188	46	4 x ø9	30	70	90	15	132	18.5	69	-	10
4	110	F07	180	105	29	210	52	4 x ø9	30	70	90	15	153	26.5	91	-	10
6	160	F07	210	140	46	269	56	4 x ø9	47	70	90	20	209	48.5	143	16/16	-
8	225	F12	240	170	65	360	60	4 x ø11	66	125	150	8	259	71.5	196	19/19	-
10	250	F12	275	205	65	435	68	8 x ø13	66	125	150	30	309	91.5	243	22/22	-
12	315	F12	310	250	65	500	78	8 x ø13	66	125	150	30	364	111.5	293	27/27	-

Lever

Size (inch)	d (mm)	H	L
2	63	37	210
3	90	40	210
4	110	40	210
6	160	40	300

Note: Lever not available with 8" and larger valves

Gear

Size (inch)	d (mm)	B	C	D	E	F	G	H
3	90	102	68	200	187	52	57	189
4	110	102	68	200	187	52	57	209
6	160	102	68	200	187	52	57	239
8	225	138	89	250	203	71	83	290
10	280	138	89	250	203	71	83	315
12	315	138	89	315	209	71	83	351