

Lug Style Butterfly Valve

Type 065



General

- **Size:** 2"-14"
- **Max Pressure:** 232 psi (2"-6"), 150 psi (8"-12"), 90 psi (14")
- **Clean:** High purity
- **Disk:** PFA overmoulded stainless steel (2"-12")
- **Body Material:** Polyester coated ductile iron
- **Shaft:** Stainless Steel
- **Liner:** PTFE
- **Backing Material:** FKM
- **Body Style:** Lug
- **Connection:** ANSI 150
- **Operation:** Lever, gear

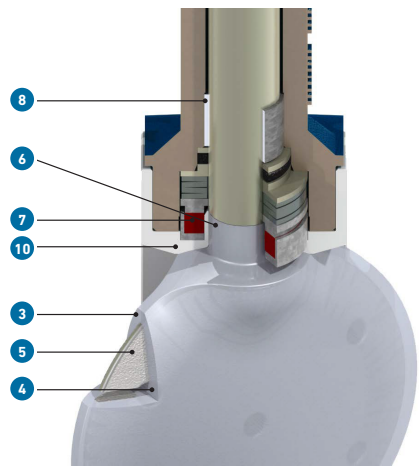
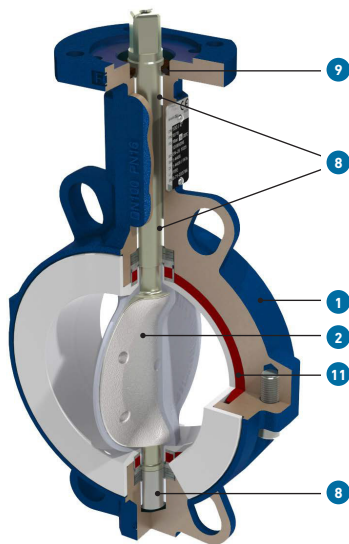
Key Certifications/Compliance

- **CE:** Pressure Equipment Directive 2014/68/EU (PED) appendix 1 for fluids of the groups 1 and 2.
- **SIL:** IEC 61508 / 61511, Safety Integrity Level SIL 3.
- **FDA and EC 1935/2004:** The Teflon® used for the Type 065 is in compliance with FDA and EC 1935/2004.

Sample Specification

The Type 065 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, mechanically interlocked with the core. All PTFE seals shall utilize a nonwetted 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. 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.

Key Features



Type 065 Valve Components

Part	Description
1	Two-piece body in ductile iron EN-JS 1025 / ≈ ASTM A395 60-40-18
2	One-piece, blow out proof, spherically-machined disc/shaft
3	Disc encapsulated with a min. thickness of 0.118" (3 mm)
4	Disc encapsulation is mechanically interlocked with the core
5	Optimized disc profile to allow high cV flow rate
6	Encapsulated shaft sealing surface
7	Life loaded shaft sealing
8	Self-lubricating shaft bushings
9	Shaft sealed from environment
10	Chambered liner, to prevent radial cold-flow
11	Elastomeric backing

Cv Values (GPM)

Opening angle of the valve

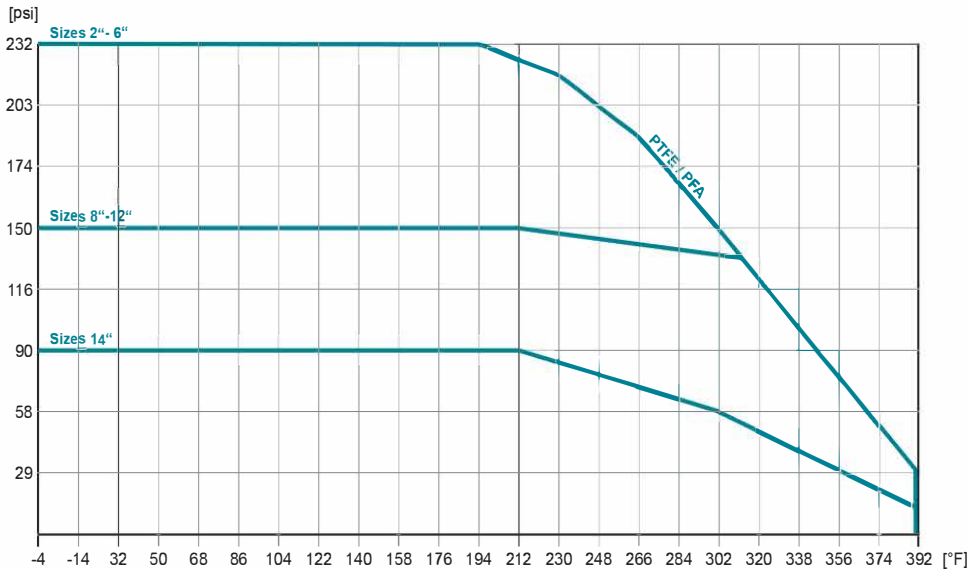
Sizes (inch)	20°	30°	40°	50°	60°	70°	80°	90°
2	5.8	12.8	27.8	48.7	74.2	107	137	155
3	17.4	38.3	83.5	145	220	313	389	455
4	23.2	55.7	110	188	296	447	563	679
6	69.6	151	273	458	748	1108	1415	1734
8	110	267	539	922	1369	2105	2796	3538
10	203	406	824	1346	1868	2807	4234	5232
12	307	606	1154	1995	3091	4599	6914	8364
14	406	766	1369	2088	3341	5278	8329	10162

Operating Torques

With PTFE liner, safety factor included

Inch	2	3	4	6	8	10	12	14
Lb-Ins	221	381	646	1292	1673	2921	4213	5974

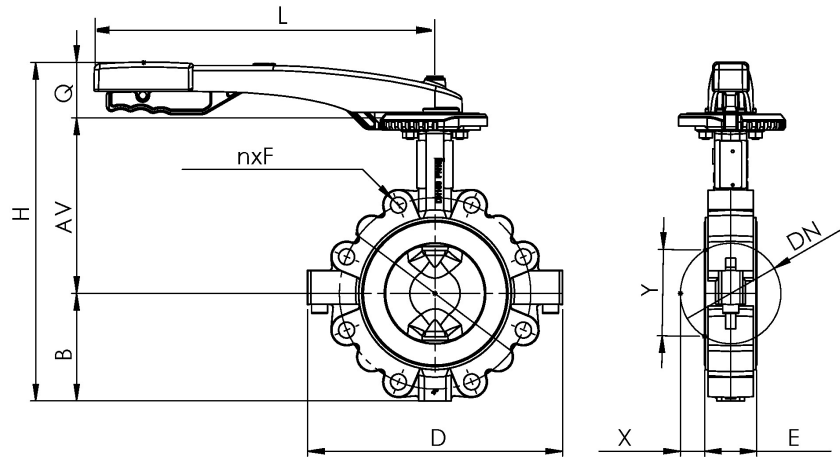
Pressure/Temperature Diagram



Dimensions

Hand Lever Version

Size (inch)	DN	H (mm)	B (mm)	AV (mm)	Q (mm)	D (mm)	Y (mm)	X (mm)	E (mm)	L (mm)	nxF	Weight (lb)
2	50	245	68	134	43	162	26	9	43	240	4 x 5/8" UNC	8.2
3	80	295	92	160	43	216	66	17	46	240	4 x 5/8" UNC	14.8
4	100	325	107	175	43	254	86	24	52	340	8 x 5/8" UNC	21.8
6	150	395	134	210	51	315	140	47	56	340	8 x 3/4" UNC	29.7



Gear Operated Version

Size (inch)	DN	H (mm)	B (mm)	AV (mm)	C (mm)	D (mm)	Y (mm)	X (mm)	E (mm)	L (mm)	P (mm)	N (mm)	R (mm)	nxF	Weight (lb)
2	50	279	68	134	77	162	26	9	43	126	48	43	50	4 x 5/8" UNC	8.9
3	80	329	92	160	77	216	66	17	46	126	48	43	50	4 x 5/8" UNC	15.5
4	100	359	107	175	77	254	86	24	52	126	48	43	50	8 x 5/8" UNC	22.3
6	150	454	134	210	110	315	140	47	56	189	48	43	80	8 x 3/4" UNC	30.4
8/9	200	511	162	239	110	389	191	70	60	189	48	43	80	8 x 3/4" UNC	51.2
10	250	633	199	275	159	483	241	91	68	219	56	50	125	12 x 7/8" UNC	74.8
12	300	699	230	310	159	543	290	111	78	219	56	50	125	12 x 7/8" UNC	106.7
14	350	796	254	349	193	564	330	131	78	371	83	80	150	12 x 1" UNC	203.7

