

TECHNICAL SPECIFICATIONS

DIN PN10 DIN PN16

Lug Wafer Butterfly Valves: 3"– 8"

Series 300 Graphite Reinforced Vinyl Ester



1. SCOPE

Full Face Wafer Butterfly Valves with threaded flange bolt holes for corrosive chemical service used in construction of pressurized piping systems.

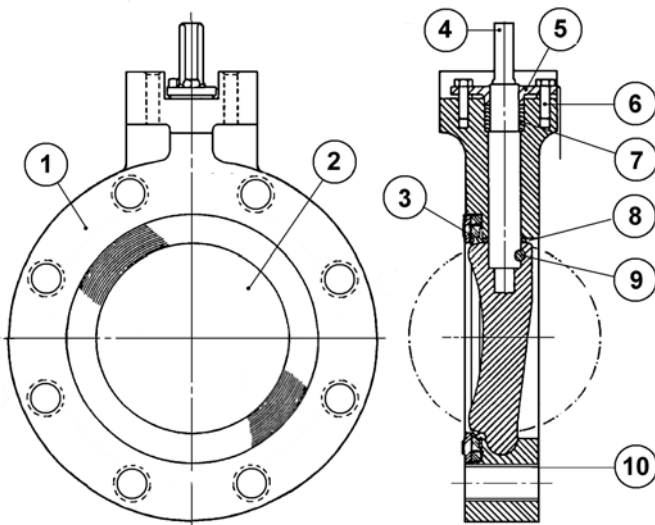
2. SERVICE RATING

Continuous temperature service from -50 to 250° F. Short-term exposures to 300° F are acceptable.

Pressure ratings are as shown on P/T chart on reverse side of this page.

3. MATERIALS OF CONSTRUCTION

- (1) **Body:** Graphite fiber reinforced vinyl ester resin
- (2) **Disc:** Graphite fiber reinforced vinyl ester resin 3", 4". Glass fiber-reinforced 6"-12"
- (3) **Seat:** Viton GF or PTFE.
- (4) **Stem:** 17-4 PH stainless steel with molded graphite fiber-reinforced vinyl ester on all wetted surfaces. Hastelloy-C insert is optional.
- (5) **Gland:** Hastelloy-C.
- (6) **Gland Bolts:** Hastelloy-C.
- (7) **Packing:** Virgin PTFE adjustable V-rings.
- (8) **Disc Spacer:** Graphite fiber-reinforced Kynar (PVDF).
- (9) **Stem Pin:** Graphite reinforced Kynar (PVDF).
- (10) **Threaded Lug Inserts:** 316 stainless steel



4. DESIGN

- Body shall have integrally molded 316 stainless steel threaded inserts to permit bolting the body directly to line flanges for dead-end service.
- Seat shall be retained to allow the valve to be used for dead end service up to rated pressure.
- Face-to-face dimensions shall be as shown on Page 2.
- Stems shall be of blowout proof design.
- Packing shall be adjustable V-ring type.
- Valve design shall be such that it can be bolted into a standard PTFE-lined steel pipe and the valve disc not interfere with the lining of the pipe.
- Valve seat and disc geometry shall provide a 360° uninterrupted bubble tight seal from full vacuum to rated valve pressure.
- Gear or lever handle shall be available on all sizes.
- Valves shall be capable of on-off actuation or modulating control with pneumatic, electric or hydraulic actuators.

5. QUALITY ASSURANCE

- The Manufacturer's facility shall be certified to ISO 9001 or equivalent. The Manufacturer shall be certified to the European Pressure Equipment Directive (PED) and the "CE" mark shall be affixed to each valve label.
- Each valve shall be hydrostatically tested with water at 225 psig with the disc open and both ends blanked for 3 minutes with no evidence of leakage.
- Each valve shall be subjected to a hydrostatic seat test at not less than 110% of the rated shutoff pressure and an air test at 20 psig with no evidence of leakage.

6. PACKING AND SHIPPING

Valves shall be shipped in the closed position. Each valve shall be marked with the manufacturer, size, series, construction materials, serial number, and valve component designation.

7. AVAILABILITY

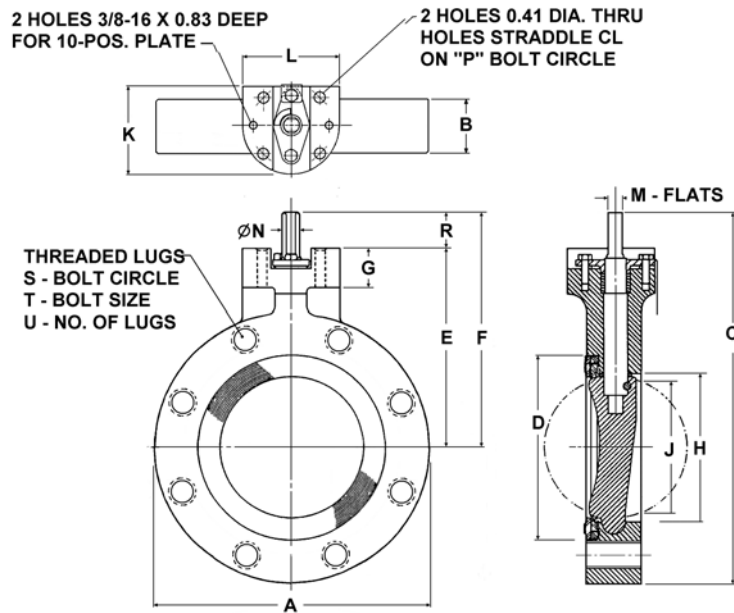
Valves meeting this specification are available from:

Nil-Cor®, LLC
4855 Broadmoor Ave.
Kentwood, MI 49512
P: 616-554-3100
F: 616-554-5623

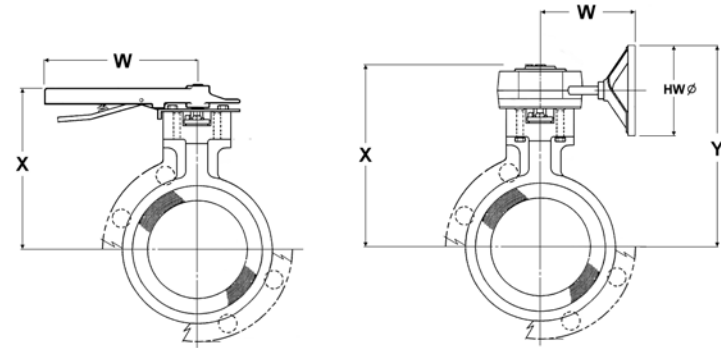
www.nilcor.com

Nil-Cor LUG BUTTERFLY VALVE DIMENSIONS

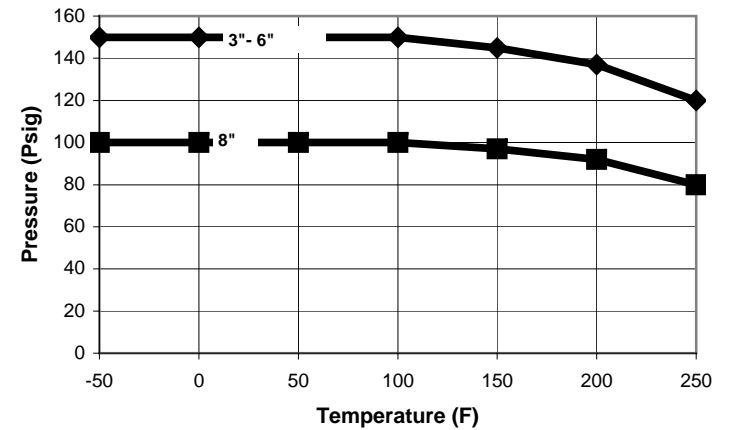
All dimensions are in Inches unless otherwise noted



DIN PN 10, 16



Shut-off Pressure/Temperature Rating



SIZE	A	B	C	D	E	F	G	H	J	K	L
3	7.50	2.06	11.31	4.13	6.38	7.56	1.50	3.13	2.38	3.13	3.50
4	9.00	2.30	13.31	5.45	7.13	8.81	1.50	4.13	3.39	3.63	4.00
6	11.00	2.45	15.18	7.45	8.13	9.68	1.63	6.13	5.43	3.63	4.00
8	13.50	2.61	18.13	9.53	9.50	11.38	1.63	8.13	7.54	3.63	4.00

SIZE	ACTUATOR MOUNTING DIMENSIONS				FLANGE BOLTING DIMENSIONS			LEVER DIMENSIONS		GEAR DIMENSIONS				Cv	OPERATING TORQUE (IN-LBS)		WEIGHT (LBS.)		
	M (+.000 -0.002)	N	P	R	S	T BOLT SIZE	U	W	X	W	X	Y	HW		<50 psid	>50 psid	BARE	W/LEVER	W/GEAR
3	0.266	0.38	2.66	1.18	6.229	M16	8	9.00	7.56	6.00	8.80	10.50	6.00	220	240	240	5.0	6.0	9.5
4	0.391	0.47	3.25	1.68	7.087	M16	8	12.00	8.81	6.00	9.40	11.25	6.00	395	360	480	8.5	9.0	12.0
6	0.562	0.69	3.25	1.55	9.449	M20	8	14.00	9.68	6.00	10.40	12.25	6.00	950	780	960	12.5	16.5	17.0
8	0.594	0.75	3.25	1.88	11.614	M20	Note 1	14.00	11.38	7.38	11.80	15.13	9.00	2250	1680	2160	19.0	23.0	26.0

Note 1: PN10 has 8 bolt holes; PN16 has 12 bolt holes