1. SCOPE
Double-Offset Wafer style Lug Body High Performance Composite Butterfly Valves for corrosive chemical service used in construction of pressurized piping systems.

2. SERVICE RATING
Continuous temperature service from 0°C to 250°C. Short-term exposures to 300°C are acceptable.

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

3. MATERIALS OF CONSTRUCTION
1. Body: Glass Fiber-reinforced vinyl ester resin
2. Retainer Ring: Glass Fiber-reinforced vinyl ester resin
3. Seat: Viton GF or PTFE
4. Disc: Vinyl ester resin reinforced with graphite fiber (3”-8”) or glass fiber (10”, 12”).
5. Shaft: 17-4 PH stainless steel encapsulated with graphite fiber-reinforced vinyl ester on all wetted surfaces.
6. Shaft Retainer Pin: Graphite-filled PVDF
7. Packing Follower: Hastelloy-C
8. Packing Bolts: Hastelloy-C
9. Shaft Seals: PTFE-V-Ring Packing

4. DESIGN
- Valve seat and disc geometry shall provide a 360° uninterrupted bubble tight seal from full vacuum to rated valve pressure.
- Valves shall have a double-offset disc and thru-shaft to provide superior disc support, reduced torque and seat wear.
- Face-to-face dimensions shall conform to ANSI B16.10 CL 150 Extra-Wide Pattern BFV as shown on Page 2.
- Stems shall be of bowout proof design.
- 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.
- Gear or lever handle shall be available on all sizes.
- Valves shall have Standard ISO 5211 shafts and mounting patterns.
- Valves shall be capable of on-off actuation or modulating control with pneumatic, electric or hydraulic actuators.

5. TESTING
- 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 not less than 1.5 times its operating pressure limit with the disc open and both ends blanked 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. S.E.
Kentwood, MI, USA 49512
(616) 554-3100
www.nilcor.com
Nil-Cor® LUG WAFER BUTTERFLY VALVE DIMENSIONS

All dimensions are in Inches unless otherwise noted.

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