

CHECK VALVES

[Ball Check Valves](#) | [Wafer Swing Check Valves](#)

Nil-Cor check valves have been designed to achieve strengths equivalent to metals with the inherent corrosion resistance of advanced polymer matrix composite materials. The exceptional valve body strength and operational integrity of Nil-Cor composite valves are achieved through both material properties and valve design. To give ruggedness and durability, our composite check valve has a body designed with heavier wall and flange thickness than metal. This engineered approach results in design factors similar to those practiced with metal valves and your assurance of absolute safety.

[Literature PDF](#)

Ball Check Valves



Specifications

Size Range: 1"-6" Flanged

Flange [ANSI CL 150](#)

Drilling:

Body One-Piece

Types:

Body 300 Graphite/Vinyl ester, 310 Glass/Vinyl ester, 410

Material: Glass/Polysulfone, 500XP Graphite/Epoxy, 610XP
Glass/Epoxy

Ball [PTFE](#), Polypropylene

Materials:

Seat [FKM](#) Fluoroelastomer

Materials:

Wafer Swing Check Valves



Specifications

Size Range: 3"-12" Full-Face

Flange Drilling: [ANSI CL 150](#), [DIN PN10](#)

Body Types: One-Piece Wafer style

Body Material: 310 Glass/Vinyl ester

Flapper Materials: 310 Glass/Vinyl ester

Seat Materials: [FKM](#) Fluoroelastomer

TECHNICAL SPECIFICATIONS

Wafer Swing Check Valves Sizes 3"- 12"

Series 310 Fiberglass Reinforced Vinyl Ester



1. SCOPE

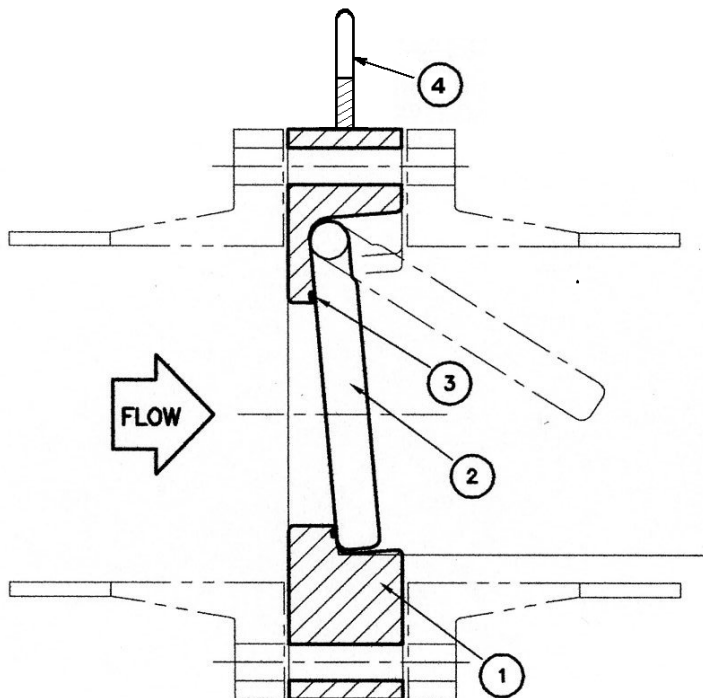
Swing Check Valves for corrosive chemical service used in construction of pressurized piping systems.

2. SERVICE RATING

Temperature rating from 0° F to 250° F as shown on pressure/temperature chart on the reverse side. See Catalog 1000 for temperature limits for specific chemicals.

3. MATERIALS OF CONSTRUCTION

- (1) Body: Glass fiber-reinforced vinyl ester resin, complete with integrally molded disc support slot.
- (2) Disc: Glass fiber-reinforced vinyl ester
- (3) Seat: PTFE or Viton Option
- (4) Lifting Eye: Stainless Steel



4. DESIGN

- Valves shall be full face wafer design and conform to the face-to-face dimensions specified on Page 2.
- A flow arrow on the body indicating the direction of free flow shall be provided.
- Flanges shall be flat-faced with serrated finish.
- Flange bolt sizes and spacing shall conform to ANSI B16.5 Class 150.
- Vertical and horizontal pressure drop to unseat shall be less than 1 psi.
- Disc will self-seat without a requirement for backflow in vertical or horizontal lines.
- A lifting lug shall be provided for installation ease on all sizes.

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 shell tested at 1.5x its rated cold working pressure for 3 min.
- Each valve shall be seat tested with water at 20 psig and 1.10 x rated shutoff. No visible leakage shall be permitted for the duration of the tests.

6. PACKING AND SHIPPING

- Valves shall be shipped with both ends capped to exclude dirt and retain the disc, and properly boxed.
- Each valve shall be marked with the manufacturer, valve size, model, serial number, and valve component designations.

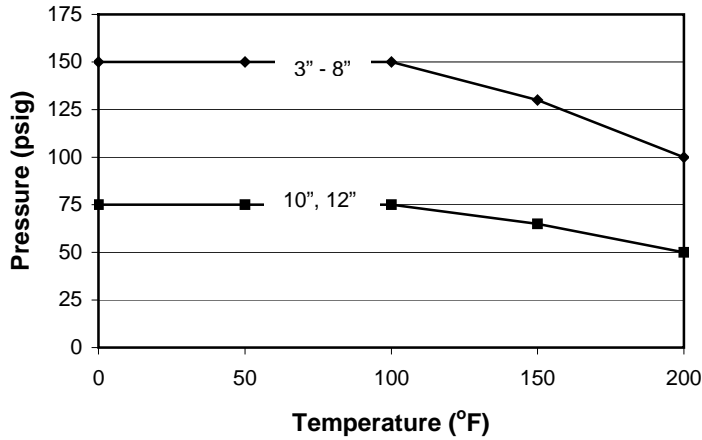
7. AVAILABILITY

Valves meeting this specification are available from:

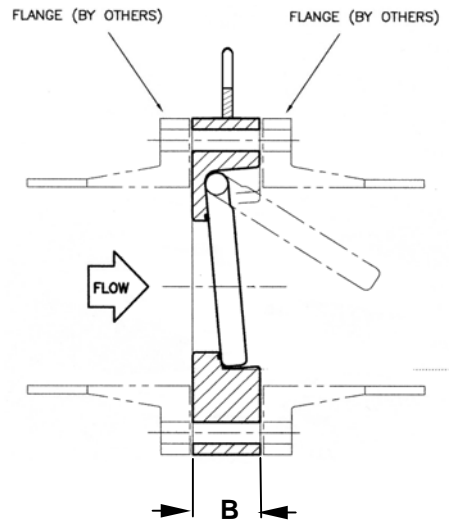
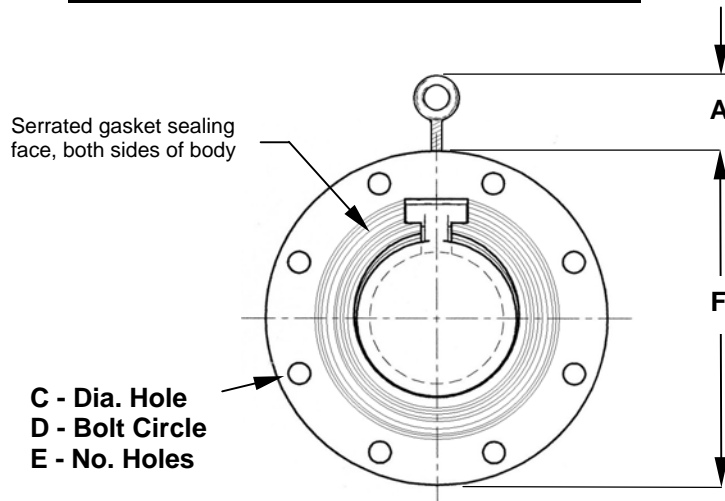
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Wafer Swing Check Valve Dimensions And Technical Specifications

Shutoff Pressure/Temperature Rating
Wafer Swing Check



Installation Dimensions (Inches)



SIZE	A	B	C	D	E	F	WT (Lbs)	Cv
3"	1.50	1.81	0.75	6.00	4	7.50	8.50	95
4"	1.50	1.81	0.75	7.50	8	9.00	11.50	230
6"	1.50	2.25	0.88	9.50	8	11.00	15.50	650
8"	2.00	2.63	0.88	11.75	8	13.50	21.00	1350
10"	2.00	2.67	1.00	14.25	12	16.00	27.80	1960
12"	2.50	3.07	1.00	17.00	12	19.00	37.50	3200