

K6 PVC Wafer Check Valve

PVC

SIZES: 2" – 8" (DN50 to 200) (d63 to d225)

SEALS: EPDM, VITON, or Teflon (FEP) encapsulated

SPRING: 316 Stainless Steel, Hastelloy

Features:

- No spacers required in both ANSI and DIN piping
- Engineered and molded with improved hinge and spring design
- Improved flow rates
- Easy spring installation without any special tool requirements
- Maximum operating temp 40°C - 104°F
- Full seal at maximum 0.3 bar / 4.5 psi backpressure
- New disc design with conical sealing surface for highest reliability and maximum operating cycles
- Flooded flapper hinge pins avoid sediment build up
- Cylindrically embedded flapper hinge pin for optimal stress absorption
- Easy installation due to integrated flange bolt guides for DIN2501 PN10 and ANSI Class 150
- Integrated installation lifting eyelet with FLOW ARROW with defined breaking point for easy removal after installation.
- Can be installed horizontally or vertically
- Rated to 150 psi on all sizes



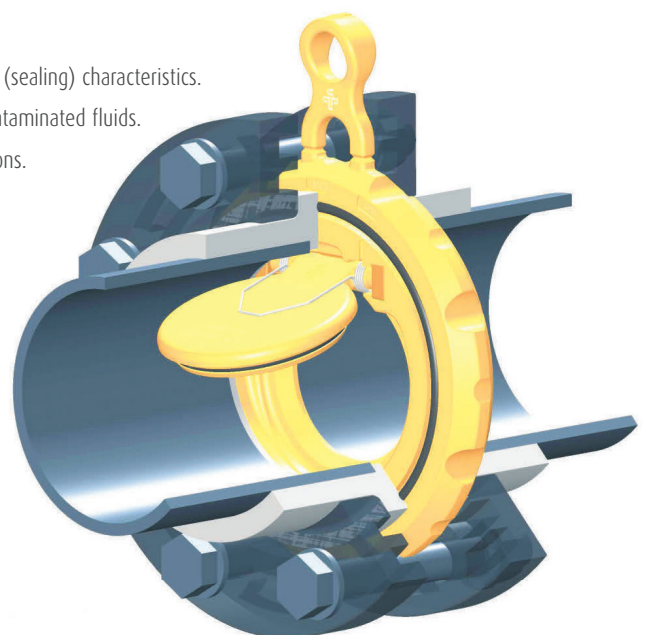
Sample Specifications

- All Praher K6 thermoplastic wafer check valves shall be available in sizes 2" through 8" with maximum operating pressure of 150 psi at 72° F, non-shock.
- The valve does not require a spacer for full disc opening performance in SCH 80 pipes.
- Valves shall have a single disc design suitable for horizontal and vertical installations.
- Valves shall have a self-cleaning disc design with contoured inlet and improved disc seating (sealing) characteristics.
- Valves shall have a flooded disc hinge pin pocket for improved life cycle performance in contaminated fluids.
- Valves shall be equipped with replaceable 316 Stainless Steel spring for horizontal installations.
- Valves shall be of round body design with incorporated notches for flange bolt alignment and incorporated valve lifting eyelet with flow direction arrow.
- All seals shall be EPDM (NSF61) or FKM (Viton)
- All K6 series thermoplastic wafer check valves shall be manufactured with PVC (ASTM D1784, Cell Classification 12454) with NSF 14/61 approval.
- Valves shall be wafer style conforming to ASME/ANSI B16.1 for 150 Lbs. and DIN flanges.

Installation Precautions:

- No direct mounting onto a pump, bend or elbow
- Install a minimum of five times the nominal pipe diameter away from pumps, bends or elbows. (Example: Install a 4" valve 20" away from a pump discharge.)

Note: Do not use valves without springs for pulsating applications

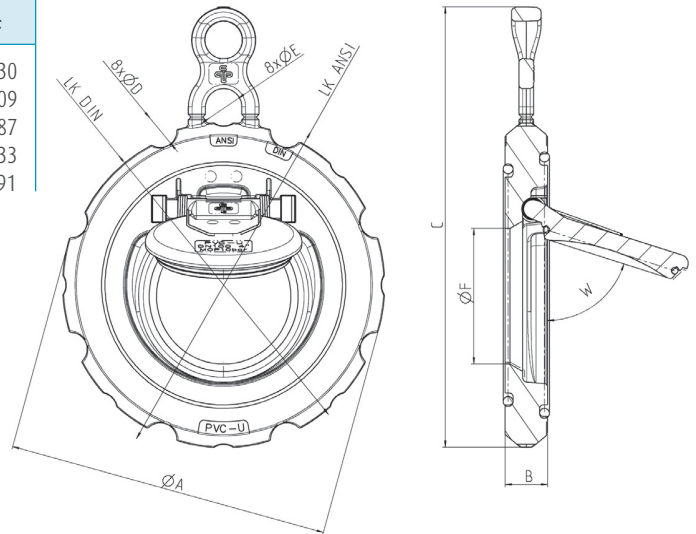


| DIMENSIONS: INCHES | | | | | | | | | | |
|--------------------|-----|-----|-------|------|-------|--------|------|---------|------|------|
| Size | DN | d | ØA | B | C | LK DIN | ØD | LK ANSI | ØE | ØF |
| 2" | 50 | 63 | 4.29 | 0.71 | 6.28 | 4.92 | 0.71 | 4.75 | 0.75 | 1.30 |
| 3" | 80 | 90 | 5.75 | 0.79 | 7.89 | 6.30 | 0.71 | 6.00 | 0.75 | 2.09 |
| 4" | 100 | 110 | 6.89 | 0.91 | 9.34 | 7.09 | 0.71 | 7.50 | 0.75 | 2.87 |
| 6" | 150 | 160 | 8.78 | 1.18 | 11.37 | 9.45 | 0.87 | 9.50 | 0.87 | 4.33 |
| 8" | 200 | 225 | 11.02 | 1.34 | 13.71 | 11.61 | 0.87 | 11.75 | 0.87 | 5.91 |

Tightening torque of screws
for flange connections

| TORQUE (INCH LBS.) | |
|--------------------|--------|
| Size | Torque |
| 2" | 174 |
| 3" | 174 |
| 4" | 174 |
| 6" | 261 |
| 8" | 304.50 |

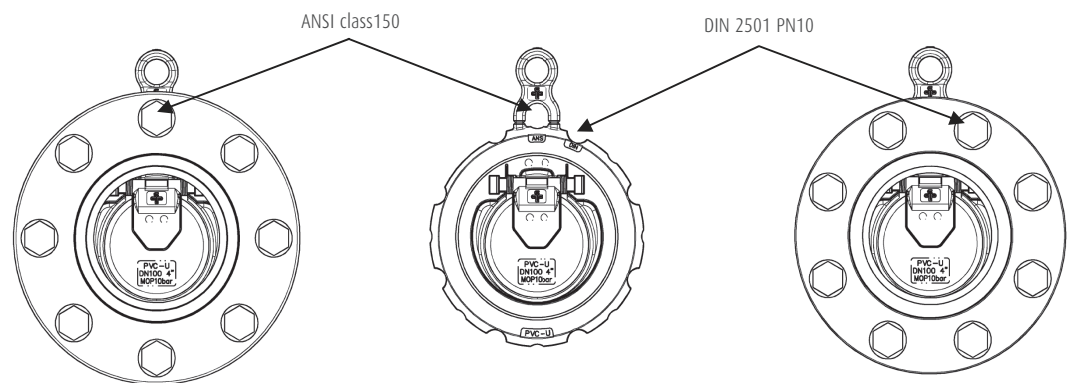
| DIMENSIONS: DEGREES | | | |
|---------------------|-------------------|--------------|------------------------------|
| Size | Opening angle (W) | | Cv Values for Sch.80 pipe |
| | Sch. 40 pipe | Sch. 80 pipe | |
| 2" | 79.5 | | 48.7 |
| 3" | 79.5 | 72 | 121.8 |
| 4" | 76 | 69 | 252.8 |
| 6" | 78.5 | 71 | 788 |
| 8" | 73 | 66 | 1095 |



Valve centering in the piping system:

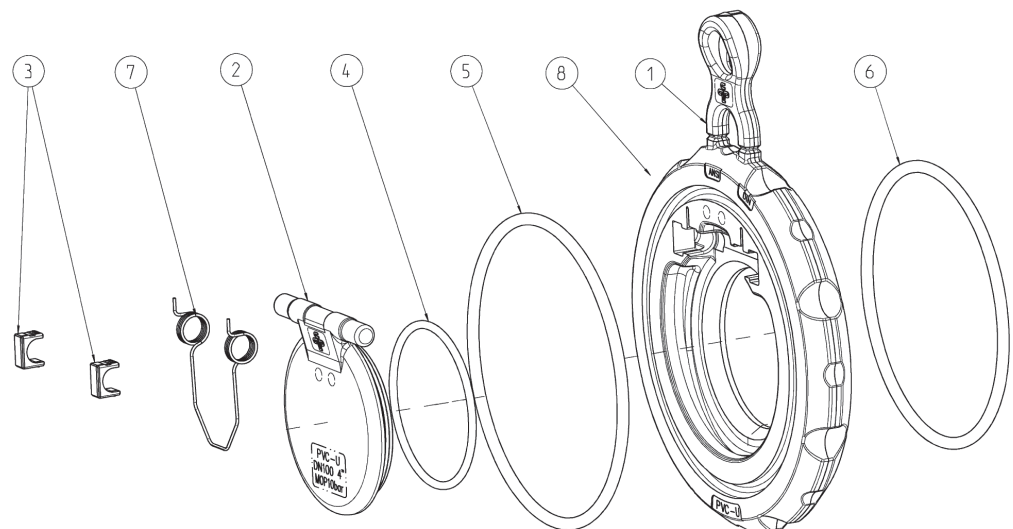
The valve will be centered by the flange bolts. ANSI and DIN markings on the valve identify which pattern matches which flange system.

The diagram shows the different bolt patterns in relation to the valve.



Parts List/Diagram

1. Body
2. Flapper
3. Flapper clip
4. Flapper O-Ring
5. Body O-Ring, front
6. Body O-Ring, back
7. SS Spring
8. Label



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