

# VR Series Piston Check Valves

## Sample Specification

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#### 1.0 Check Valves - VR

##### 1.1 Material

- The valve body, end connectors, and unions shall be made of PVC compound which shall meet or exceed the requirements of cell classification 12454 according to ASTM D1784.

##### 1.2 Seals

- The o-ring seals and shutter shall be made of EPDM.
- or The o-ring seals and shutter shall be made of FPM.

#### 2.0 Connections

##### 2.1 Socket style

- The IPS socket PVC end connectors shall conform to the dimensional standards ASTM D2466 and ASTM D2467.

##### 2.2 Threaded style

- The female NPT threaded PVC end connectors shall conform to the dimensional standards ASTM D2464, ASTM F1498, and ANSI B1.20.1.

##### 2.3 Flanged style

- The ANSI 150 flanged PVC end connectors shall conform to the dimensional standard ANSI B16.5..

#### 3.0 Design Features

- Valve sizes 1/2" through 2" shall have true union ends.
- Valve sizes 3" through 4" shall have either socket or threaded ends.
- All valves shall be y-pattern globe style in design.
- All valves shall be gravity operated.
- The weight shall be totally encapsulated inside the piston.
- The valve shall function in both horizontal and vertical lines with no minimum column requirements.
- Servicing of the valves shall be possible without removal from the line.

#### 3.1 Pressure Rating

- Valve sizes 1/2" through 1" shall be rated at 232 psi at 73°F.
- Flanged valve sizes 1/2" through 1" shall be rated at 150 psi at 73°F.
- Valve sizes 1-1/4" through 2" shall be rated at 150 psi at 73°F.
- Valve sizes 3" through 4" shall be rated at 90 psi at 73°F.

#### 3.2 Markings

- All valves shall be marked to indicate size, material designation, and manufacturers name or trade mark.

#### 3.3 Color Coding

- All PVC valves shall be color-coded dark gray.

- 4.0** All valves shall be Xirtec® PVC by IPEX or approved equal.

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