

### Features

- Pressure rated 232 PSI (16 Bar) at 73°F (23°C)
- Xirtec® PVC construction
- True union design for easy installation
- Vertical and horizontal applications
- Socket (PS) and Threaded (FNPT) connectors included (1/2" - 2")
- Full body guide ribs to reduce chatter
- Fully machined ball
- EPDM Seals
- Low required backpressure (3psi)

### Applications

PVC check valves are typically used as a backflow preventer for water, air, oil and other media compatible with the materials of construction. Suitable for vertical installation or horizontal where self-draining is not required.

Flow rates of ball check valves may be lower than other types of check valve designs.

### Operation

The check valve allows unidirectional flow when upstream pressure unseats a captive ball, allowing media to flow around the ball. When upstream pressure is shut off, back pressure re-seats the ball, preventing backflow.

### Construction

|                           |           |
|---------------------------|-----------|
| <b>Valve Body</b>         | PVC, CPVC |
| <b>End Connector</b>      | PVC       |
| <b>Socket Seal</b>        | EPDM      |
| <b>Ball</b>               | PVC       |
| <b>Ball Seal (O-Ring)</b> | EPDM      |



### Description

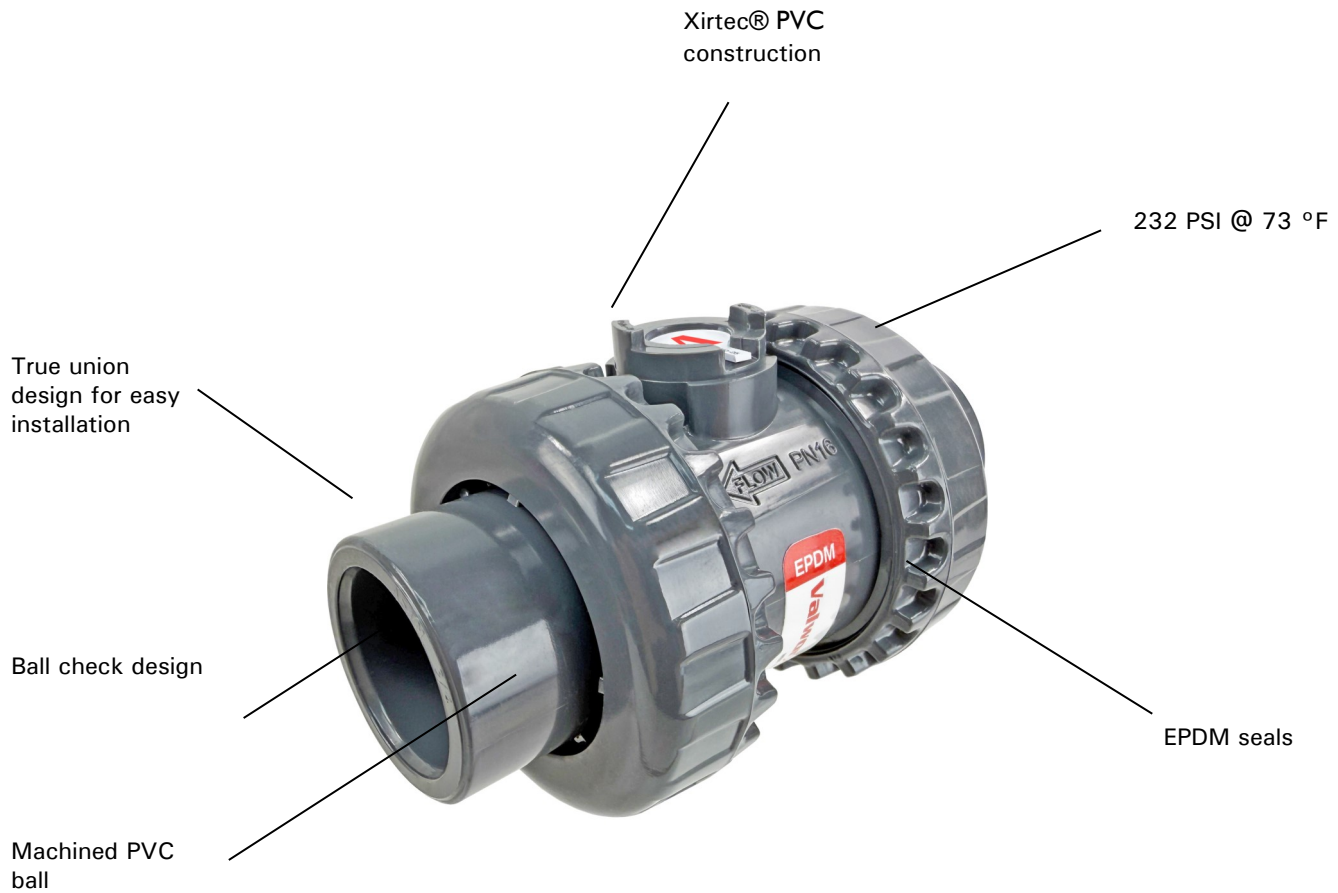
Ball check design; PVC check valves can be used in vertical and horizontal applications. Suitable for non-viscous, smooth-flowing non-particulate media.

### Design

- ANSI B1.20.1
- ANSI B16.5
- ASTM D1784

### Connection

- ASTM D2466/ D2467
- ASTM D2464 F1498
- ASNI B1.20.1

**Features****Pressure/ Temperature Rating**

**Pressure Rating:** 1/2" - 4": 232 PSI

**Temperature Rating:** 15 to 230° F (-9 to 110° C)

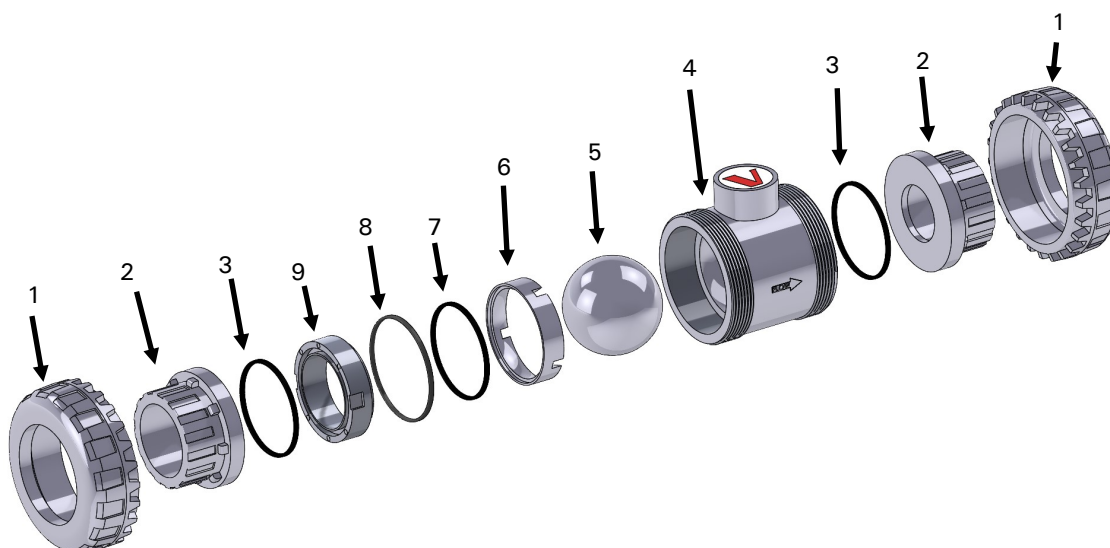
### Specifications (English units)

| Stock Number | Pipe Size (inch) | Cv    | Max Pressure* (PSI) | Minimum Backpressure (PSI) | Weight (lbs) |
|--------------|------------------|-------|---------------------|----------------------------|--------------|
| 549708       | 1/2              | 10.6  | 232                 | 3                          | 0.3          |
| 549712       | 3/4              | 17.9  | 232                 | 3                          | 0.4          |
| 549716       | 1                | 30.0  | 232                 | 3                          | 0.7          |
| 549720       | 1-1/4            | 44.6  | 232                 | 3                          | 1.0          |
| 549724       | 1-1/2            | 64.4  | 232                 | 3                          | 1.5          |
| 549732       | 2                | 93.2  | 232                 | 3                          | 2.4          |
| 549740       | 2-1/2            | 179.4 | 232                 | 3                          | 5.7          |
| 549748       | 3                | 238.9 | 232                 | 3                          | 7.3          |
| 549764       | 4                | 353.3 | 232                 | 3                          | 12.7         |

### Specifications (Metric units)

| Stock Number | Pipe Size (mm) | Kv    | Max Pressure* (Bar) | Minimum Backpressure (Bar) | Weight (Kg) |
|--------------|----------------|-------|---------------------|----------------------------|-------------|
| 549708       | 1/2            | 9.2   | 16                  | 0.2                        | 0.1         |
| 549712       | 3/4            | 15.5  | 16                  | 0.2                        | 0.2         |
| 549716       | 1              | 25.9  | 16                  | 0.2                        | 0.3         |
| 549720       | 1-1/4          | 38.6  | 16                  | 0.2                        | 0.5         |
| 549724       | 1-1/2          | 55.7  | 16                  | 0.2                        | 0.7         |
| 549732       | 2              | 80.6  | 16                  | 0.2                        | 1.1         |
| 549740       | 2-1/2          | 155.2 | 16                  | 0.2                        | 2.6         |
| 549748       | 3              | 206.6 | 16                  | 0.2                        | 3.3         |
| 549764       | 4              | 305.6 | 16                  | 0.2                        | 5.8         |

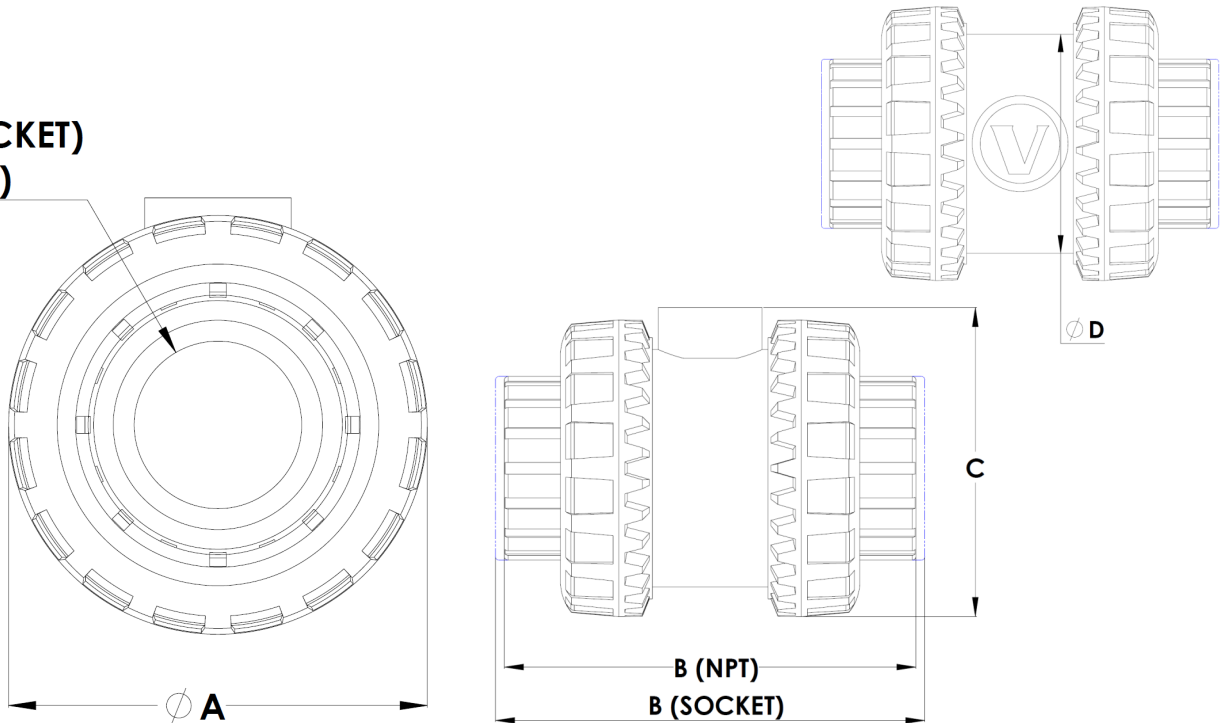
## Specifications (Parts Assembly)



| Item | Part                  | Material  | Qty |
|------|-----------------------|-----------|-----|
| 1    | Union Nut             | PVC       | 2   |
| 2    | End Connector         | PVC       | 2   |
| 3    | Socket Seal (O-Ring)  | EPDM      | 2   |
| 4    | Body                  | PVC, CVPC | 1   |
| 5    | Ball                  | PVC       | 1   |
| 6    | Packing-Presser Ring  | PVC       | 1   |
| 7    | Ball Seal (O-Ring)    | EPDM      | 1   |
| 8    | Support for Ball Seat | PVC       | 1   |
| 9    | Radia Seal (O-Ring)   | EPDM      | 1   |

## Dimensions

Ø E (SOCKET)  
E1 (NPT)



| Pipe Size |      | A     | B (NPT) | B (SOCKET) | C     | D     | E (NPT)   | E (SOCKET) |
|-----------|------|-------|---------|------------|-------|-------|-----------|------------|
| 1/2       | inch | 2.1   | 3.8     | 3.5        | 2.2   | 1.6   | 1/2 NPT   | 0.8        |
|           | mm   | 53.4  | 96.5    | 88.9       | 56.0  | 41.0  | -         | 20.3       |
| 3/4       | inch | 2.5   | 4.1     | 3.7        | 2.6   | 1.9   | 3/4 NPT   | 1.1        |
|           | mm   | 63.5  | 104.1   | 94.0       | 67.0  | 48.0  | -         | 27.6       |
| 1         | inch | 2.8   | 4.6     | 4.3        | 3.0   | 2.2   | 1 NPT     | 1.3        |
|           | mm   | 71.1  | 116.8   | 109.2      | 76.0  | 55.0  | -         | 33.0       |
| 1-1/4     | inch | 3.4   | 5.4     | 5.0        | 3.7   | 2.9   | 1-1/4 NPT | 1.7        |
|           | mm   | 86.4  | 137.2   | 127.0      | 93.0  | 74.0  | -         | 43.2       |
| 1-1/2     | inch | 3.9   | 5.8     | 5.2        | 4.1   | 3.1   | 1-1/2 NPT | 1.9        |
|           | mm   | 99.1  | 147.3   | 132.1      | 104.0 | 80.0  | -         | 48.3       |
| 2         | inch | 4.7   | 6.9     | 6.3        | 4.9   | 3.7   | 2 NPT     | 2.4        |
|           | mm   | 119.4 | 175.3   | 160.0      | 124.0 | 94.0  | -         | 61.0       |
| 2-1/2     | inch | 6.2   | 8.3     | 8.3        | 6.3   | 5.0   | 2-1/2 NPT | 2.9        |
|           | mm   | 157.5 | 210.8   | 210.8      | 160.0 | 128.0 | -         | 73.7       |
| 3         | inch | 6.9   | 9.8     | 9.8        | 6.8   | 5.6   | 3 NPT     | 3.5        |
|           | mm   | 175.3 | 248.9   | 248.9      | 173.0 | 142.0 | -         | 88.9       |
| 4         | inch | 8.4   | 11.1    | 11.1       | 8.3   | 7.0   | 4 NPT     | 4.5        |
|           | mm   | 213.4 | 281.9   | 281.9      | 212.0 | 178.0 | -         | 114.3      |