

Sample Specification

1.0 Sediment Strainers – RV

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.
- or The valve body, end connectors, and unions shall be made of Corzan® CPVC compound which shall meet or exceed the requirements of 23447 according to ASTM D1784.

1.2 Seals

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

1.3 Mesh Screen

- The mesh screen shall be made of PVC compound which shall meet or exceed the requirements of cell classification 12454 according to ASTM D1784.
- or The mesh screen shall be made of stabilized PP homopolymer compound, also containing a RAL 7032 pigment, which shall meet or exceed the requirements of Type I Polypropylene according to ASTM D4101-86.
- or The mesh screen shall be made of corrosion resistant 304 stainless steel.

2.0 Connections

2.1 Socket style

- The IPS socket PVC end connectors shall conform to the dimensional standards ASTM D2466 and ASTM D2467.
- or The IPS socket CPVC end connectors shall conform to the dimensional standard ASTM F439.

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
- or The female NPT threaded CPVC end connectors shall conform to the dimensional standards ASTM F437, 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.
- or The ANSI 150 flanged CPVC end connectors shall conform to the dimensional standard ANSI B16.5

3.0 Design Features

- Strainers shall be Y-pattern in style.
- Sizes 1/2" through 2" shall have true union ends.
- Sizes 3" and 4" shall have solid threaded or socket ends.
- It shall be possible to service the valve without removing it from the line.
- PVC strainers shall have a transparent body for evaluation of filter screen condition.
- The filter screens shall be available in ASTM 18, 20, 30, 35, 40, 45 and 70 mesh sizes.

3.1 Pressure Rating

- PVC valve sizes 1/2" through 1" shall be rated at 232 psi at 73°F.
- CPVC valve sizes 1/2" through 2" shall be rated at 232 psi at 73°F.
- PVC valve sizes 1-1/4" through 2" shall be rated at 150 psi at 73°F
- PVC valve sizes 3" through 4" shall be rated at 60 psi at 73°F.
- All sizes of flanged valves shall be rated at no greater than 150 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 have transparent bodies with end connections color-coded dark gray.
- or All CPVC valves shall be color-coded light gray.

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

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