SXE Ball Check Valves

Sample Specification

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1.0 Check Valves – SXE

1.1 Material

- The valve body, ball, 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, ball, 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.

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.

3.0 Design Features

- The valve shall have true union ends.
- The valve cavity shall feature an optimized profile design to reduce ressure drop and improve the Cv value
- The valve cavity shall feature full body guide ribs to reduce chatter and improve seal quality.
- The ball shall be fully machined to achieve high surface finish and accurate dimensional tolerance.
- The valve body and union nuts shall have deep square style threads for increased strength.
- The Main-seal carrier shall be a safe blocked design and allow for safe disconnection of the union nuts for maintenance. The main-seal carrier shall be compatible with the EasyFit multifunctional handle and EasyFit Torque Wrench (1/2" – 2" valves) for precise component tightening.
- The union nuts shall be compatible with the EasyFit multifunctional handle and EasyFit Torque Wrench (1/2" – 2" valves) for precise tightening.
- The valve shall have a transparent plug housing for use with EasyFit Labelling System for valve identification.

3.1 Pressure Rating

- All valves shall be rated at 232 psi at 73°F.
- All valves shall be suitable for use with liquids having a specific gravity less than 0.05 lb/in3.

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.

or All CPVC valves shall be color-coded light gray.

4.0 NSF Listings

- 1/2" to 2" valves shall be listed with NSF to Standard 61 for potable water.
- 1/2" to 2" valves shall be listed with NSF to Standard 372 for lead content requirements.

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

About IPEX

About IPEX by Aliaxis

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Markets served by IPEX by Aliaxis products are:

- Electrical systems
- Telecommunications and utility piping systems
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems
- PVC, CPVC, PP, PVDF, PE, ABS, and PEX pipe and fittings