Engineering Specification

Model FCA Floor Control Valve Assembly

**Recommended CSI MasterFormat Specification Location: 21 13 13, Wet-Pipe Sprinkler Systems (formerly 13930)**

Floor Control Valve Assembly shall be cULus Listed for use in wet-pipe fire protection systems for installation in the vertical or horizontal position. The Floor Control Valve Assembly shall be **[**2” (50mm) listed for 300 psi (20.7 bar)**]** **{[**2½” (65mm)**] [**3” (80mm)**]** **[**4” (100mm)**]** listed for 250 psi (17.2 bar)**}** working pressure with grooved end connections per ANSI/AWWA C606.

The Floor Control Assembly shall be manufactured as a single preassembled unit and consist of the following:

* Supervised butterfly valve with Nylon-11 coated brass in accordance with ASTM A-536 and an EPDM encapsulated coated disc in accordance with ASTM A-536.
* Spring-loaded check valve with a straight flow design. Construction to be cast iron with a grooved one-piece bronze seat, 2” main drain port, and system side water pressure gauge. Clapper assembly shall be ductile iron casting with brass bushing assembly, EPDM rubber facing seal and stainless steel clamping ring. Valve body construction shall consist of gray iron per ASTM-A48 Class 30A.
* Single-handle, tri-position Test & Drain valve allowing both testing of the waterflow alarm and draining of a wet-pipe fire protection system. Test & Drain valve shall be provided with a pressure relief valve trim kit with **[**175 psi (12.1 bar)**]** **[**185 psi (12.8 bar)**] [**210 psi (14.5 bar)**] [**260 psi (17.9 bar)**] [**310 psi (21.4 bar)**]** rating.
* A vane type waterflow switch with non-corrosive insert for use on wet-pipe sprinkler systems utilizing two (2) single pole, double throw, snap action switches and an adjustable, instantly recycling pneumatic retard. Waterflow switch to have an electrical rating of 10A @ 125/250 VAC / 2.5 A @ 24VDC.

Floor Control Valve Assembly shall be the Reliable Model FCA. Refer to Reliable Bulletin 619 for associated information.