Engineering Specification

Multi-Purpose Low Lead Residential Riser Assembly

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

The Low Lead Multipurpose Residential Riser Assembly shall be cULus approved for horizontal or vertical installation for combined Domestic and Fire Protection use in accordance with NFPA 13D standard for residential systems. The riser manifold assembly shall consist of as a one-piece, factory assembled cast, non-welded stainless steel body with 1” female NPT threaded or 25mm female metric inlet and outlet end connections.

The manifold piping shall contain cast-on lettering clearly identifying manifold pipe size, flow direction, cULus Listing, and the test and drain outlet. A built-in drain port shall be available to permit hydrostatic testing without draining the system. Assembly shall have a working pressure rating of 175 psi (12.1 bar). Cast mounting holes shall be provided for recessed or flush mounting to wall. For stud mounting, a support bracket shall be provided specifically designed for the cast mounting holes.

The Commercial Riser Assembly shall be manufactured as a single preassembled component and consist of the following:

* Three-way Test & Drain valve. The test orifice size for the Test & Drain assembly shall be **[**3/8” (10 mm)**] [**7/16” (11 mm)**] [**½” (15 mm)**]**.
* Tapped ¼” port for an associated cULus listed pressure gauge.
* Dedicated cULus listed waterflow detector that shall provide optimum sensitivity while the adjustable delay device minimizes false alarms caused by pressure surges or short periods of water usage above 12 GPM. The switch shall be capable to be wired for 24 VDC or 125/250 VAC operation.

The low lead multi-purpose residential riser assembly shall be the Reliable Model MP LL. Refer to Reliable Bulletin 426 for associated information.