

UNIVERSAL RISER MANIFOLD ASSEMBLY

MODEL: SD-URM Series

1.0 GENERAL DESCRIPTION

The Universal Riser Manifold Assembly is a floor control station assembly. It is pressure rated for 300 psi (20.7 bar). It is a compact assembly which includes all of the necessary components for your floor control station as required by the NFPA Standards. With its multiple available configurations, it allows the contractor to order the suitable configuration for the site specific needs. The Universal riser manifold assembly is more than just a traditional stand-alone manifold. It serves as a complete floor control station.

Main Components are as follows;

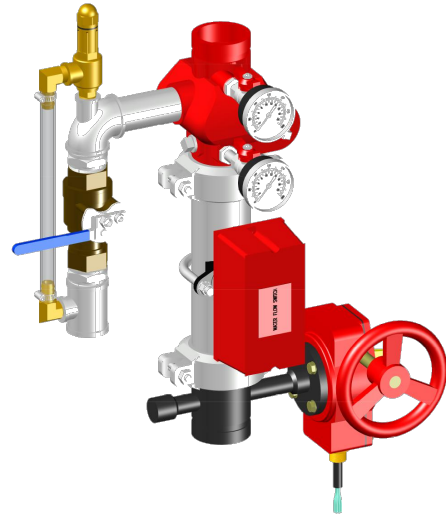
1. Butterfly Valve
2. Check Valve
3. Water Flow Switch
4. Test and Drain Assembly
5. Adjustable Pressure Relief Valve assembly pre-piped to drain.
6. Supply gauge (2-1/2") and
7. System gauge (2-1/2".

Available Sizes;

Nominal Riser Size Inches (DN)	Model Number
2 (50)	SD-URM50/P
2-1/2 (65)	SD-URM65/P
3 (80)	SD-URM80/P
4 (100)	SD-URM100/P
6 (150)	SD-URM150/P
8 (200)	SD-URM200/P

2.0 PRODUCT FEATURES

- Replaces the need to order individual "Riser Manifolds" plus control valves, check valves,



and relief valve kits as all of these components are integrated in to the one compact design.

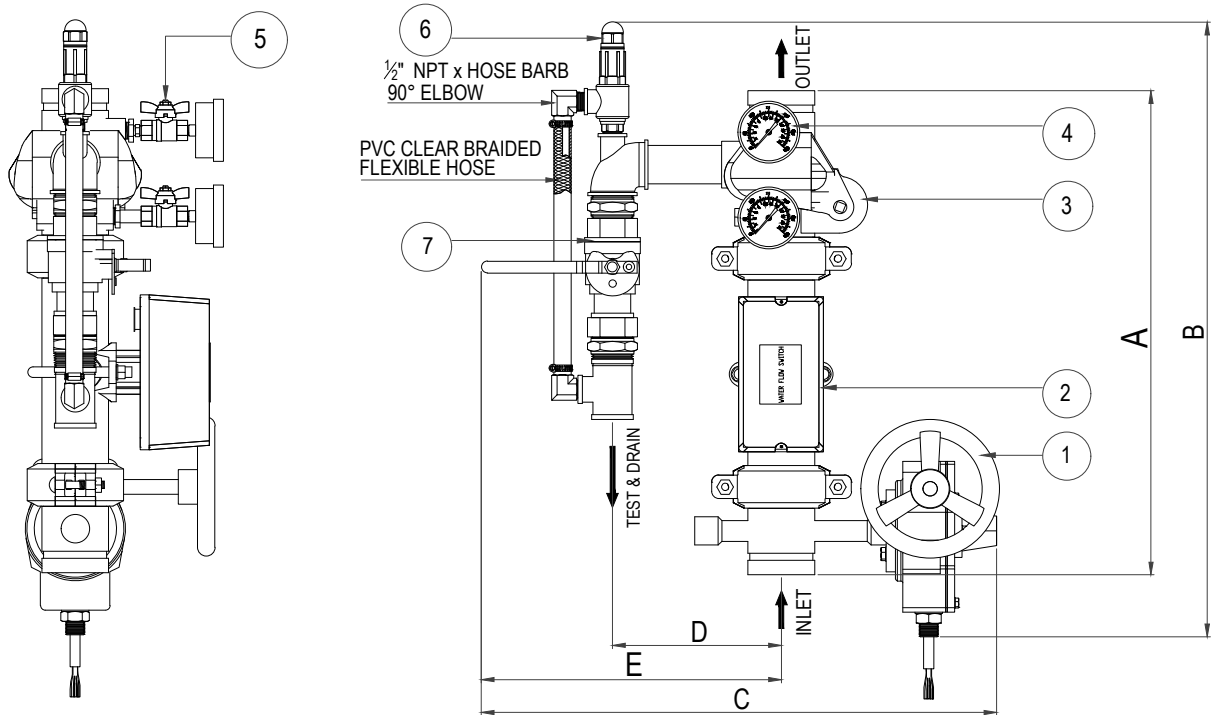
- Saving space as well as the labor to connect these separate components.
- Factory assembled and pressure tested.
- Assembly working pressure - 175 Psi (12 bar)

3.0 APPLICATION

The Universal riser manifold assembly may be utilized to meet NFPA 13 requirements for Floor control assemblies where there are multistory buildings exceeding two stories in height requiring zoning by floor or wherever separate control and floor zoning is specified. The Universal riser manifold has been engineered with space savings in mind for those commonly installed applications in stair well landings and other applications.

4.0 ASSEMBLY DIMENSIONS & COMPONENTS

Item No.	Description	Model / Spec.	Mfg.
1	Butterfly Valve	SD-300G-BV	Shield
2	Flow Switch	SD-WFD Series	Shield
3	Riser Check Valve	SD-NRV-200GG-D	Shield
4	Pressure Gauge	SD-P2LF	Shield
5	Gauge Valve	PN25	Shield
6	Pressure Relief Valve	SD-CRVT	Shield
7	Test & Drain Valve	SD-TDV50T	Shield



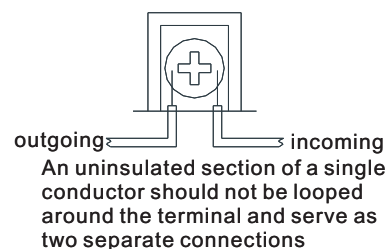
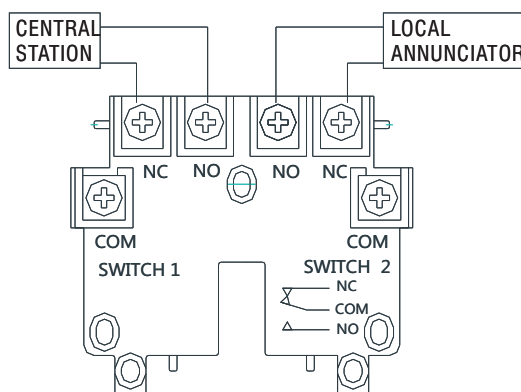
Nominal Riser Size Inches (DN)	End Connections		Nominal Dimensions, mm (Approx.)					Nominal Drain Size Inches (DN)	Model Number
	Inlet	Outlet	A	B	C	D	E		
2 (50)	Groove	Groove	500	660	530	175	310	1 (25)	SD-URM50/P
2-1/2 (65)	Groove	Groove	530	675	565	185	330	1-1/4 (32)	SD-URM65/P
3 (80)	Groove	Groove	540	675	580	185	330	1-1/4 (32)	SD-URM80/P
4 (100)	Groove	Groove	580	710	675	230	405	2 (50)	SD-URM100/P
6 (150)	Groove	Groove	710	760	730	250	425	2 (50)	SD-URM150/P
8 (200)	Groove	Groove	780	825	815	280	455	2 (50)	SD-URM200/P

5.0 ELECTRICAL WIRING DETAILS

5.1 WATER FLOW SWITCH

The flow switch includes two sets of switches. One set can be used to activate the central fire alarm system, while the other set can be used to activate a local alarm, if necessary. Refer to the schematic below for the wiring diagram.

Typical Connections



Retard Adjustment:

The delay can be adjusted by rotating the retard adjustment knob from 0 to the max setting (60-90 seconds). The time delay should be set at the minimum required to prevent false alarms.

**WARNING!**

An un-insulated section of a single conductor should not be looped around the terminal and serve as two separate connections. The wire must be severed, thereby providing supervision of the connection in the event that the wire become dislodged from under the terminal. Failure to serve the wire may render the device in-operable risking severe property damage and loss of life.

Do not strip wire beyond 3/8" of length or expose an un-insulated conductor beyond the edge of the terminal block. When using stranded wire, capture all strands under the clamping plate.



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