

Residential riser and commercial riser (Riser manifold assembly)

Residential riser and commercial riser (Riser manifold assembly) is a pre-assembled, pressure tested riser kit, which is ready for installation right out of the packing box, saving installation cost and time.

The riser manifold normally provides 5 parts in a single assembly for use in NFPA 13, and NFPA 13D/13R: a short length of riser piping, a flow switch, a pressure gauge, a drain valve (Or test and drain valve), and other necessary fittings. Optional Pressure Relief Kits feature a 175 psi pressure relief valve and trim components, which automatically relieve excessive pressure through a flexible hose connected to the manifold drain outlet.



Component specification

| Short length of riser piping | Flow switch | Pressure gauge | Drain valve (Or test and drain valve) | Necessary fittings | Opional pressure relief kit | Optional control valve | Optional others |
|--|----------------------|----------------------|---------------------------------------|---|---|-------------------------|-------------------------|
| Stainless steel pipe, or carbon steel pipe | See TPMC catalog V85 | See TPMC catalog V95 | See TPMC catalog VC02, or VC01 | Plug, close nipple, reducing elbow or tee, etc. | Pressure relief valve and flexible hose | Grooved butterfly valve | 3-way valve, drain pipe |

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Available size for residential riser

| Size | | Component of assembly | Connection | Working pressure (psi) | Ref. No. |
|--------|----|---|------------|------------------------|----------|
| Inch | DN | | | | |
| 1" | 25 | SS pipe, flow switch, pressure gauge, ball valve | THD / GRV | 300 | V6901 |
| 1-1/4" | 32 | SS pipe, flow switch, pressure gauge, ball valve | THD / GRV | 300 | V6902 |
| 1-1/2" | 40 | SS pipe, flow switch, pressure gauge, ball valve | THD / GRV | 250 | V6903 |
| 1-1/2" | 40 | SS pipe, flow switch, pressure gauge, test and drain valve | THD / GRV | 250 | V6904 |
| 1-1/2" | 40 | SS pipe, flow switch, pressure gauge, ball valve, pressure relief kit | THD / GRV | 250 | V6905 |
| 1-1/2" | 40 | SS pipe, flow switch, pressure gauge, test and drain valve, pressure relief kit | THD / GRV | 250 | V6906 |
| 2" | 50 | SS pipe, flow switch, pressure gauge, ball valve | THD / GRV | 250 | V6907 |
| 2" | 50 | SS pipe, flow switch, pressure gauge, test and drain valve | THD / GRV | 250 | V6908 |
| 2" | 50 | SS pipe, flow switch, pressure gauge, ball valve, pressure relief kit | THD / GRV | 250 | V6909 |
| 2" | 50 | SS pipe, flow switch, pressure gauge, test and drain valve, pressure relief kit | THD / GRV | 250 | V6910 |

Available size for commercial riser

| Size | | Component of assembly | Connection | Working pressure (psi) | Ref. No. |
|--------|-----|--|------------|------------------------|----------|
| Inch | DN | | | | |
| 2" | 50 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve | Grooved | 300 | V6921 |
| 2" | 50 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve | Grooved | 300 | V6922 |
| 2" | 50 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve, pressure relief kit | Grooved | 300 | V6923 |
| 2" | 50 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve, pressure relief kit | Grooved | 300 | V6924 |
| 2-1/2" | 65 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve | Grooved | 300 | V6925 |
| 2-1/2" | 65 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve | Grooved | 300 | V6926 |
| 2-1/2" | 65 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve, pressure relief kit | Grooved | 300 | V6927 |
| 2-1/2" | 65 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve, pressure relief kit | Grooved | 300 | V6928 |
| 3" | 80 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve | Grooved | 300 | V6929 |
| 3" | 80 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve | Grooved | 300 | V6930 |
| 3" | 80 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve, pressure relief kit | Grooved | 300 | V6931 |
| 3" | 80 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve, pressure relief kit | Grooved | 300 | V6932 |
| 4" | 100 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve | Grooved | 300 | V6933 |
| 4" | 100 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve | Grooved | 300 | V6934 |
| 4" | 100 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve, pressure relief kit | Grooved | 300 | V6935 |
| 4" | 100 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve, pressure relief kit | Grooved | 300 | V6936 |
| 6" | 150 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve | Grooved | 300 | V6937 |
| 6" | 150 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve | Grooved | 300 | V6938 |
| 6" | 150 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve, pressure relief kit | Grooved | 300 | V6939 |
| 6" | 150 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve, pressure relief kit | Grooved | 300 | V6940 |
| 8" | 200 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve | Grooved | 300 | V6941 |
| 8" | 200 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve | Grooved | 300 | V6942 |
| 8" | 200 | Sch40 A53 pipe, flow switch, pressure gauge, ball valve, pressure relief kit | Grooved | 300 | V6943 |
| 8" | 200 | Sch40 A53 pipe, flow switch, pressure gauge, test and drain valve, pressure relief kit | Grooved | 300 | V6944 |

Note: It is also available to equip a butterfly valve.