1. DESCRIPTION

Viking EasyPac Residential Riser Manifold Assemblies are available in sizes 1-1/4", 1-1/2", and 2" for NFPA 13D and NFPA13R residential fire sprinkler systems. The configuration eliminates the need to drain the system before installing the relief valve, while a built-in test port allows hydrostatic testing without draining the system. The EasyPac Residential Assemblies include pressure gauges, Potter flow switches, 3-way gauge control valve and 1" drain valve (or 1-1/4" for Part No. 14850). The EasyPac assemblies are made with steel bodies and are available in threaded or grooved connections.

NOTE: The EasyPac Residential Riser Manifold Assembly can be installed horizontally with the flow switch on top, or vertically with flow upward.

2. LISTINGS AND APPROVALS

Pressure Gauges: UL Listed, FM Approved
Waterflow Alarm Switch: UL Listed - Category USQT, cUL Listed, FM Approved - Waterflow Detectors, Vane Type, CSFM Listed
Ball Valve: UL Listed, FM Approved
AGF TestanDrain Model 1000: UL Listed - Category VEHZ, FM Approved - Sprinkler System Alarm Testers
AGF TestanDrain Model 1011 with Pressure Relief Valve: UL Listed - Category VEHZ, FM Approved - Sprinkler System Alarm Testers

3. TECHNICAL DATA

Specifications and Material Standards:
Available since 2007.
- Pressure Rating: 250 PSI (17.2 bar) maximum water working pressure.
- Fabricated steel pipe.
- Available in male NPT threaded inlet and outlet connections using Schedule 40 steel pipe.
- Available in grooved inlet and outlet connections using Schedule 10 steel pipe.
- Available with male NPT threaded inlet x grooved outlet using Schedule 40 steel pipe.
- Assemblies available with TestanDrain, or TestanDrain with Pressure Relief Valve: Pressure relief valve is not factory assembled to the TestanDrain.
- Riser bodies coated with black Ecoat.
- Flow Switch: Two single-pole double-throw switches with Form C contacts rated at 15 Amps 125/250 V. AC, 2.5 Amp 0-30 V. DC. Each switch can be wired for open or closed circuit operation. See Figure 1.

Ordering Information: (Also refer to the current Viking price list.)
Basic Residential EasyPac Assemblies with Ball Valve Drain (See Figures 2-3.)
Part No. 14840 - Model 114EPRAT: 1-1/4" Threaded with ball drain valve
Part No. 14841 - Model 114EPRAG: 1-1/4" Grooved with ball drain valve
Part No.14905 - Model 114EPRATG: 1-1/4" Threaded x Grooved with ball drain valve
Part No. 14842 - Model 112EPRAT: 1-1/2" Threaded with ball drain valve
Part No. 14843 - Model 112EPRAG: 1-1/2" Grooved with ball drain valve
Part No. 14845 - Model 2EPRAG: 2" Grooved with ball drain valve
Part No. 14846 - Model 2EPRATG: 2" Threaded x Grooved with ball drain valve
Residential EasyPac Assemblies with TESTanDRAIN Valve (See Figures 4-5.)
Must add suffix to the part number for the desired orifice size: A = 3/8" (K2.8), B = 7/16" (K4.2), C = 1/2" (K5.6), D = 17/32" (K8.0)
For example, Part No. 14871C = 1-1/4" Threaded EasyPac Residential Assembly with TESTanDRAIN using a 1/2" test orifice.
Part No. 14871 - Model 114EPCTDAT: 1-1/4" Threaded with TESTanDRAIN
Part No. 14872 - Model 114EPCTDAG: 1-1/4" Grooved with TESTanDRAIN
Part No. 14875 - Model 112EPCTDAT: 1-1/2" Threaded with TESTanDRAIN
Part No. 14876 - Model 112EPCTDAG: 1-1/2" Grooved with TESTanDRAIN
Part No. 14850 - Model 2EPCTDAG: 2" Grooved with TESTanDRAIN
Residential EasyPac Assemblies with TESTanDRAIN and Pressure Relief Valve (PRV) (See Figures 6-7.)
Must add suffix to the part number for the desired orifice size and pressure setting of the pressure relief valve.
- A = 3/8" (K2.8), B = 7/16" (K4.2), C = 1/2" (K5.6), D = 17/32" (K8.0) for orifice size
- 175, 185, 195, 205, 225, or 250 for pressure setting of the pressure relief valve

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For example, Part No. 14873C175 = 1-1/4" Threaded EasyPac Residential Assembly with TESTanDRAIN using a 1/2" test orifice and pressure relief valve with 175 PSI pressure setting:
Part No. 14873 - Model 114EPCTDATRV: 1-1/4" Threaded with TESTanDRAIN and PRV
Part No. 14874 - Model 114EPCTDAGRV: 1-1/4" Grooved with TESTanDRAIN and PRV
Part No. 14877 - Model 112EPCTDATRV: 1-1/2" Threaded with TESTanDRAIN
Part No. 14878 - Model 112EPCTDAGRV: 1-1/2" Grooved with TESTanDRAIN
Part No. 14900 - Model 2EPRTDAGRV: 2" Grooved with TESTanDRAIN
Part No. 14901 - Model 2EPRTDATRV: 2" Threaded with TESTanDRAIN

NOTE: It is important to note that the pressure rating of the relief valve indicates an operating range of pressure for both opening and closing of the valve. Standard relief valves are required to OPEN in a range of pressure between 90% and 105% of their rating. The valves are required to CLOSE at a pressure above 80% of that rating.

4. INSTALLATION
Refer to appropriate NFPA Installation Standards.

5. TESTANDRAIN VALVE OPERATING INSTRUCTIONS
1. To Test: Turn valve handle counterclockwise from “Off” to “Test”. The handle will stop automatically. After test is completed, return handle to “Off”.
2. To Drain: Turn handle counterclockwise from “Off” to “Test”. The handle will stop automatically. Depress “Push” button and turn handle to “Drain”. When system is empty, return handle clockwise to “Off” position.

6. INSPECTIONS, TESTS AND MAINTENANCE
Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

7. AVAILABILITY
The Viking EasyPac Riser Assemblies are available through a network of domestic and international distributors. See The Viking Corporation web site for the closest distributor or contact The Viking Corporation.

8. GUARANTEE
For details of warranty, refer to Viking’s current list price schedule or contact Viking directly.

![Flow Switch with 2 Single Pole, Double Throw Micro Switches](image)

**TABLE 1: PIPE DIAMETERS**

<table>
<thead>
<tr>
<th>RISER ASSEMBLY SIZE</th>
<th>PIPE O.D.</th>
<th>SCHEDULE 10 PIPE I.D.</th>
<th>SCHEDULE 40 PIPE I.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/4&quot;</td>
<td>1.66&quot; (42.2 mm)</td>
<td>1.45&quot; (36.6 mm)</td>
<td>1.38&quot; (35.1 mm)</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>1.9&quot; (48.3 mm)</td>
<td>1.69&quot; (42.7 mm)</td>
<td>1.61&quot; (40.9 mm)</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2.38&quot; (60.3 mm)</td>
<td>2.16&quot; (54.8 mm)</td>
<td>2.07&quot; (52.5 mm)</td>
</tr>
</tbody>
</table>
Figure 2: 1-1/4" and 1-1/2" (DN32 and DN38) Basic Residential EasyPac with Ball Valve Drain

Figure 3: 2" (DN50) Basic Residential EasyPac with Ball Valve Drain
EASYPAC RESIDENTIAL RISER MANIFOLD ASSEMBLIES
1-1/4", 1-1/2", & 2" (DN32, DN38, & DN50)

Figure 4: 1-1/4" and 1-1/2" (DN32 and DN38) Residential EasyPac with TESTanDRAIN

Figure 5: 2" (DN50) Residential EasyPac with TESTanDRAIN
EASYPAC RESIDENTIAL RISER MANIFOLD ASSEMBLIES
1-1/4", 1-1/2", & 2" (DN32, DN38, & DN50)

**NOTE: PRESSURE RELIEF VALVE KIT IS SHIPPED LOOSE. IT IS NOT FACTORY INSTALLED.**

Figure 6: 1-1/4" and 1-1/2" (DN32 and DN38) Residential EasyPac with TESTanDRAIN and Pressure Relief Valve

Figure 7: 2" (DN50) Residential EasyPac with TESTanDRAIN and Pressure Relief Valve

**OBSOLETE**