### 714U Series - Model Number Explanation

<table>
<thead>
<tr>
<th>Basic UFR valve model number:</th>
<th>Installation and troubleshooting procedures on opposite side</th>
</tr>
</thead>
<tbody>
<tr>
<td>714U = UFR Yoke Expander</td>
<td></td>
</tr>
<tr>
<td>( \text{SPACE 1, 2, 3, &amp; 4} )</td>
<td></td>
</tr>
</tbody>
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#### Unit Required (Example):
- UFR Yoke Expander
- 5/8" x 3/4" size

#### Order Model 714U2E X951

<table>
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<tr>
<th>714U</th>
<th>2</th>
<th>E</th>
<th>X951</th>
</tr>
</thead>
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#### Unit Required (Example):
- UFR Yoke Expander
- 5/8" x 3/4" size
- Volumetric Meter

#### Order Model 714U2EYBV X950

<table>
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<tr>
<th>714U</th>
<th>2</th>
<th>EYBV</th>
<th>X950</th>
</tr>
</thead>
</table>

### HOW TO ORDER

**Not all sizes or combinations available - contact factory.**

**UNIT REQUIRED**
- UFR Yoke Expander
- 5/8" x 3/4" size
- Volumetric Meter
- No Backflow Prevention

**Order Model 714U2E X951**

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**UNIT REQUIRED (Example):**
- UFR Yoke Expander
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### Installation Instructions

**WARNING:** It is unlawful in CALIFORNIA & VERMONT (effective 1/1/2010); MARYLAND (effective 1/1/2012); LOUISIANA (effective 1/1/2013) and the UNITED STATES OF AMERICA (effective 1/4/2014) to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380.

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Yoke Expander UFR
Unmeasured-Flow Reducer

GENERAL INFORMATION
- WARNING - Do NOT use UFR with improper meter. The type of meter the UFR is to be used with is marked on the UFR as follows:
  \[ V = \text{Volumetric Meter} \quad M2 = \text{Multi-Jet Meter} \]
If uncertain of meter type being used, contact factory with meter manufacturer and model number. The marking for "-NCV" will follow the "V" or "M2" for UFR’s without backflow prevention.
- The Yoke Expander UFR MUST be installed so that the arrow on the UFR points in the direction of water flow. The UFR expander will be before the meter.
- The UFR can be installed in either the horizontal or vertical position.
- The UFR requires a minimum line pressure of 14.5 PSI to operate correctly.
- If used in a system with a pressure regulating valve, best results will be obtained by locating the pressure regulating valve before the UFR or at least 25 feet after the UFR.
- The UFR does not require regular maintenance.
- Do NOT attempt to repair or replace internal components.
- Replacing the UFR at time the meter is changed out is recommended.

ASSEMBLY INSTRUCTIONS
- Service lines should be thoroughly flushed before installing device.
  Excessive pipe sealant or Teflon tape may prevent the UFR from working properly.
  A suitable strainer should be installed upstream of the device.
- The UFR MUST be installed so that the arrow on the UFR points in the direction of water flow.
- Always install UFR using a Smooth Jaw Wrench.
- Assemble UFR expander to meter and any other devices attached to the meter prior to placing them into yoke or box. Place needed gaskets at each end connection.
  Tilt UFR expander nose into gasket and level meter into place. Turn UFR expander until snug fit is achieved (Note: Excessive torque applied to expander while lengthening it, or attaching it to the meter can result in damage or failure of the UFR expander).
- Assemble UFR expander to meter and any other devices attached to the meter prior to placing them into yoke or box. Place needed gaskets at each end connection.
  Tilt UFR expander nose into gasket and level meter into place. Turn UFR expander until snug fit is achieved (Note: Excessive torque applied to expander while lengthening it, or attaching it to the meter can result in damage or failure of the UFR expander).
- Use only on cold water service lines under 110°F. Protect from freezing.
  Thermal expansion conditions are possible. Not required for No Check Valve (NCV) UFR's (X951 and X961).
- Use only on cold water service lines under 110°F. Protect from freezing.
  The UFR is not recommended for pressures exceeding 235 PSI.

TROUBLESHOOTING
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>No flow in the line</td>
<td>1. Shut off valves have not been opened after installation.</td>
<td>1. Check shut off valves.</td>
</tr>
<tr>
<td></td>
<td>2. The product is installed the wrong way round (against the flow direction).</td>
<td>2. Check direction of the product, and if necessary invert it in accordance with the flow direction.</td>
</tr>
<tr>
<td></td>
<td>3. Mains pressure is less than 14.5 PSI</td>
<td>3. The UFR requires a minimum mains pressure of 14.5 PSI to work normally.</td>
</tr>
<tr>
<td>There is a leak in the house but the UFR is not working.</td>
<td>1. There is a lot of air in the system following the installation.</td>
<td>1. Purge air from the system by opening the taps in the house and check again.</td>
</tr>
<tr>
<td></td>
<td>2. The leak in the house is more than 7.9 gallons per hour (cumulative).</td>
<td>2. The UFR is designed to pulsate for leaks between 0 and 7.9 gallons per hour. For flows above 7.9 gallons per hour the UFR is fully open and meter should register full flow on its own.</td>
</tr>
<tr>
<td></td>
<td>3. Sealant has entered the sealing area of the UFR.</td>
<td>3. Remove the UFR from the line and clean out the sealant.</td>
</tr>
</tbody>
</table>

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