Dixon's Field Adjustable Pressure Reducing Valve

This compact design fits into small spaces, while the setting of the valve requires less than 30 ft lbs of torque.

Features:
- allows flexibility during installation and the ability to adjust settings once installed as hydraulic conditions change
- 1/4" NPT gauge ports - both sides, drilled and tapped standard
- 3/8" adjusting rod included
- available with tamper switch

Specification:
- used in applications when the inlet pressure is greater than 175 PSI

Approval:
- UL listed

SETTING
1. Determine desired outlet pressure for known inlet pressure.
2. Remove the tamper-resistant screw and slide the plastic cover up to access the adjusting nut.
3. Use a 3/8" diameter rod in any one of the 6 holes in the adjusting nut and rotate counter clockwise to increase the pressure at the outlet.
4. Check valve under pressure under static and under the anticipated flowing conditions to ascertain that the setting produces the expected results.

<table>
<thead>
<tr>
<th>Angle</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>FAPRAV250F</td>
<td>2½&quot; female NPT x 2½&quot; male NST angle body</td>
</tr>
<tr>
<td>FAPRAVF250</td>
<td>2½&quot; female NPT x 2½&quot; female NPT angle body</td>
</tr>
<tr>
<td>FAPRAVG250F</td>
<td>2½&quot; groove x 2½&quot; male NST angle body</td>
</tr>
<tr>
<td>FAPRAVG250G</td>
<td>2½&quot; groove x 2½&quot; groove angle body</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Straight</th>
<th>Description</th>
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<tbody>
<tr>
<td>FAPRVG250</td>
<td>2½&quot; groove x 2½&quot; groove inline body</td>
</tr>
<tr>
<td>FAPRVF250</td>
<td>2½&quot; female NPT x 2½&quot; female NPT inline body</td>
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</tbody>
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1 image 1
2 image 2
STANDPIPE SYSTEMS

For valves intended for use in a Class II standpipe system, use a straight stream nozzle with a ½” orifice or a 1½” combination fog/straight stream nozzle. Nozzles shall have a rated flow range compatible with the performance characteristics of the pressure-reducing valve. Valves shall be installed in accordance with NFPA 14 and/or 13 and NFPA 25 and shall have a minimum outlet pressure of 65 PSI. The valve may be set for residual pressures less than 100 PSI when permitted by the authority having jurisdiction. Upon system completion, each valve must be tested under both flow and no-flow conditions to verify outlet pressure rates satisfy system design requirements in accordance with NFPA14.

AUTOMATIC SPRINKLER SYSTEMS

Automatic sprinkler systems are used to reduce the water supply pressure at which the sprinklers are designed to operate and may be used as a floor control valve suitable for indicating service and also as a checking device. Valves shall be installed in accordance with NFPA 13 and 25. A relief valve of not less than ½” shall be installed on the downstream side of the pressure reducing or pressure control valve and pressure gauges shall be installed on the upstream and downstream sides of the valve. Upon system completion, each valve must be tested under both flow and no-flow conditions to verify outlet pressure rates satisfy system design requirements in accordance with NFPA13.

VALVE MAINTENANCE

Visual inspection of the valve body, threads, and cover should be conducted prior to installation and periodically to insure there is no physical damage. Valves are designed so the stem packing may be replaced without removing the valve from the piping system. The valve must be in the fully open position; remove handwheel and packing nut, replace stem packing O-ring. Visual inspection is recommended to assure no damage to the valve body, threads or handwheel. Replacement of internal parts is not recommended. The valve must be installed with pipe unions or rubber gasketed fittings upstream or downstream of the valve to permit easy removal of valve for replacement. The valve should be tested and maintained in accordance with NFPA 25.

WARNING: Failure to follow these installation and operating instructions could result in serious and disabling injury or death to the user or others or destructive damage to property. Never use or operate this valve without inspecting it for safe and appropriate operation.