Application
The Pressure-Tru™ ZW4004 Series Pressure Reducing Valve is listed as a floor control valve, an indicating valve, and a check valve in automatic sprinkler systems as well as a standpipe valve for CLASS I and CLASS III systems. Regulates pressure under both flow and no-flow conditions.

Standards Compliance
- UL® Listed
- C-UL® Listed
- NYC MEA 325-06-E
- City of Los Angeles Approved
- SS option - California State Fire Marshall Listed

Material
Castings/internals: Cast bronze ASTM B 584
Elastomers: Buna Nitrile (FDA approved) EPDM (FDA approved)

Features
Sizes: 2 1/2"
Maximum inlet pressure: 400 psi
End connections (FNPT): ANSI B1.20.1
(Grooved): AWWA C606
Factory Set
Tapped & plugged inlet and outlet for pressure gauge

Model ZW4004
Pressure-Tru™ Automatic Fire Control

Options
(Suffixes can be combined)
- angle type valve
- IL - in-line (globe type) valve
- G - with grooved inlet and outlet connections
- SS - with integral supervisory switch, contact rating 3 amps @ 125 VAC and tamper resistant cover
- MSA - with monitor switch adapter
- CAP - with capped bonnet, no handwheel assembly
- CH - with chrome finish

Options
ZW4004ILMSA  ZW4004GMSA

Dimensions & Weights (do not include pkg.)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIMENSIONS (approximate)</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A OPEN</td>
<td>A CLOSED</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>mm</td>
</tr>
<tr>
<td>ZW4004</td>
<td>12 7/8</td>
<td>327</td>
</tr>
<tr>
<td>ZW4004IL</td>
<td>13 1/2</td>
<td>343</td>
</tr>
<tr>
<td>ZW4004G</td>
<td>13 5/16</td>
<td>338</td>
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<tr>
<td>ZW4004ILG</td>
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<td>343</td>
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<tr>
<td>ZW4004CAP</td>
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<td>229</td>
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<tr>
<td>ZW4004ILCAP</td>
<td>7 1/4</td>
<td>184</td>
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</table>
Residual Pressure Charts
For Pressure-Tru® 2 1/2" Models: ZW4000, ZW4000G, ZW4004 & ZW4004G

Choosing The Correct Settings
In designing a sprinkler system, a minimum of 20 psi pressure differential (the difference between the inlet static pressure and the valve outlet set static pressure) is recommended to assure a well regulated and efficient system. In choosing the correct setting for the Pressure-Tru® valve, refer to the Residual Pressure Charts, Static Pressure Chart and the following procedures:
1. Determine the demand in gallons per minute required downstream of the valve.
2. Determine the standpipe residual or “flow pressure” at the valve inlet.
3. Locate the appropriate flow chart based on GPM required and body style.
4. Locate the inlet residual pressure on the vertical axis of the chart and draw a horizontal line from this pressure across the chart.
5. Locate the desired valve outlet residual pressure on the horizontal axis of the chart and draw a vertical line from this pressure.
6. The curve nearest the intersection of the two lines drawn is the appropriate type for the valve.
7. To determine the static outlet pressure, locate the static chart. Determine the valve inlet static pressure shown on the vertical axis and draw a horizontal line from that pressure to the appropriate curve determined above, then draw a vertical line down to the horizontal axis and read the static outlet pressure.

Maximum Rated Inlet Pressure
Maximum inlet pressure, to assure a maximum outlet pressure of 175 psi. Inlet side of valves can be safely tested up to 400 PSI during system hydrostatic leak test.

<table>
<thead>
<tr>
<th>Bonnet Type</th>
<th>Max Inlet Pressure psi (kpa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>400 (2750)</td>
</tr>
<tr>
<td>O</td>
<td>400 (2750)</td>
</tr>
<tr>
<td>P</td>
<td>360 (2475)</td>
</tr>
<tr>
<td>Q</td>
<td>310 (2125)</td>
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<tr>
<td>R</td>
<td>290 (2000)</td>
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<tr>
<td>S</td>
<td>250 (1725)</td>
</tr>
<tr>
<td>T</td>
<td>225 (1550)</td>
</tr>
<tr>
<td>U</td>
<td>200 (1375)</td>
</tr>
</tbody>
</table>

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | Zurn Industries Limited
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com
Residual Pressure Charts
For Pressure-Tru® 2 1/2” Models: ZW4000IL & ZW4004IL
Residual Pressure Charts
For Pressure-Tru® 2 1/2” Models: ZW4000ILG & ZW4004ILG

Proper performance is dependent upon licensed, qualified personnel performing regular, periodic testing according to ZURN WILKINS’ specifications and prevailing governmental & industry standards and codes and upon following these installation instructions. Failure to do so releases ZURN WILKINS of any liability that it might otherwise have with respect to that device. Such failure could also result in an improperly functioning device.