**Deringer™ 40X**  
**Low Head Loss Reduced Pressure Zone Assembly**  
**Sizes: 4" and 6"**

The Deringer™ 40X Reduced Pressure (RP) Zone Assembly prevents non-health hazard pollutants and hazardous contaminants from entering a potable water supply system when backpressure and/or backsiphonage conditions occur.

**Features**
- Oversized checks for extreme performance
- Integral shutoff valves indoor/outdoor application
- 100% stainless steel housing
- Tamper-resistant test cocks
- Stainless steel braided wire sensing line
- Balanced chamber Relief Valve
  - No sliding seals
- Patented Dual-action™ check modules
  - Poppet action at low flow
  - Swing action at high flow
- Pre wired supervisory switches
- Poppet action first check for more reliable Relief Valve closure
- Flanged adapters available
- IPS grooved ends

**Specifications**
The Deringer 40X Reduce Pressure (RP) Zone Assembly shall utilize two independent check modules and two integral resiliently seated shutoff valves all of which shall be contained within a single rigid valve housing constructed entirely of 304 stainless steel. Both integral shutoff valves shall include prewired supervisory tamper switches contained within a weatherproof actuator housing approved for both indoor and outdoor use. Dual-action second check module shall operate as a “poppet style” check under low flow conditions, operate as a “swing style” check under high flow conditions and utilize replaceable silicone elastomer sealing discs. Assembly test cocks shall be handle-less and operate via a tamper resistant actuator. Assembly shall have a single full access service port and cover with an “inline” replaceable elastomer seal. Relief Valve shall operate using only static seals (zero dynamic/sliding seals). All wetted surface Relief Valve components shall be constructed of stainless steel. Assembly shall be serviceable without special tools.

**Materials**
- **Valve Housing:** 304 Stainless Steel  
- **Valve Cover:** 304 Stainless Steel  
- **SOV Disks:** EPDM/304SS  
- **SOV Shafts:** 304 Stainless Steel  
- **RV Spring:** 302 Stainless Steel  
- **SOV Bearings:** Teflon® fluoropolymer/Bronze  
- **Non-wetted Bolts:** Grade 8 Zinc Plated  
- **Check Disks:** Silicone (NSF)  
- **Wetted Fasteners:** 18-8 Stainless Steel  
- **RV Housing:** 304 Stainless Steel  
- **Check Springs:** 17-7 Stainless Steel  
- **Check Pins:** 17-7/18-8 Stainless Steel  
- **Check Seats:** Noryl® Polymer (NSF)  
- **O-rings:** Buna-N (NSF)  
- **RV Hose:** Braided Stainless Steel Wire

**Pressure — Temperature**
- **Temperature Range:** 33°F – 140°F  
- **Working Pressure:** 10 – 175psi

Teflon® is a registered trademark of The Chemours Company.  
Noryl® is a registered trademark of SABIC Global Technologies B.V.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.*

**NOTICE**
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Ames Fire & Waterworks product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Fire & Waterworks Technical Service. Ames Fire & Waterworks reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Ames Fire & Waterworks products previously or subsequently sold.
Flow Performance

<table>
<thead>
<tr>
<th>Size</th>
<th>Model</th>
<th>Ht (mm)</th>
<th>Hb (mm)</th>
<th>L (mm)</th>
<th>D (mm)</th>
<th>H (mm)</th>
<th>W (mm)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>40X</td>
<td>10.5</td>
<td>267</td>
<td>23.6</td>
<td>599</td>
<td>0.2</td>
<td>5</td>
<td>19.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.6</td>
<td>218</td>
<td>10.5</td>
<td>267</td>
<td>20.3</td>
<td>516</td>
<td>13.8</td>
</tr>
</tbody>
</table>

Standards

AWWA C511-07 Compliant
NSF/ANSI 372, UL CERTIFIED
LEAD FREE

End Connections
- IPS Groove for Steel Pipe: AWWA C606
- Flange Adapters: ANSI B16.1 Class 125

Dimensions — Weights

Dimensions (in mm)

<table>
<thead>
<tr>
<th>Size</th>
<th>Model</th>
<th>Ht (mm)</th>
<th>Hb (mm)</th>
<th>L (mm)</th>
<th>D (mm)</th>
<th>H (mm)</th>
<th>W (mm)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>40X</td>
<td>10.5</td>
<td>267</td>
<td>23.6</td>
<td>599</td>
<td>0.2</td>
<td>5</td>
<td>19.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.6</td>
<td>218</td>
<td>10.5</td>
<td>267</td>
<td>20.3</td>
<td>516</td>
<td>13.8</td>
</tr>
</tbody>
</table>

Rate of Flow (gpm)

<table>
<thead>
<tr>
<th>(lpm)</th>
<th>Pressure Loss (psid)</th>
<th>Rate of Flow (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>757</td>
<td>12</td>
<td>4” (X)</td>
</tr>
<tr>
<td>1514</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>2271</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>3028</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3785</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4542</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>5299</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>6056</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

* Specific orientation & agency flow characteristics available on website