

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

LEAD FREE*

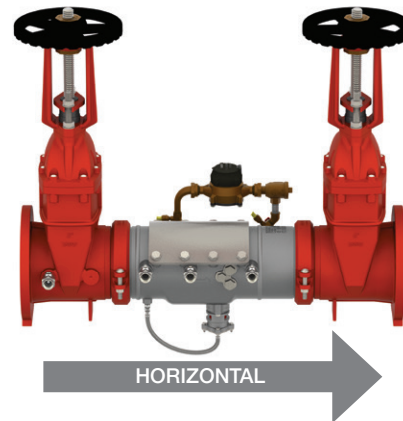
Deringer™ 50G Reduced Pressure Detector Assembly

Sizes: 2½"– 8"

The Deringer™ 50G Reduced Pressure Detector Assembly (RPDA-II) prevents non-health hazard pollutants and hazardous contaminants entering a potable water supply system when backpressure and/or backsiphonage conditions occur. Used primarily on fire sprinkler systems when monitoring of unauthorized water use is required.

Features

- Poppet action first check for more reliable Relief Valve closure
- Stem includes tamper switch groove
- Inline serviceable gate valves
- Tamper-resistant test cocks
- Stainless steel housing
- Patented Dual-action™ second check module
 - Poppet action at low flow
 - Swing action at high flow
- CuFt or gallons bypass meter
- Lead Free* bronze bypass components
- Stainless steel braided wire sensing line
- Silicone elastomer
- Balanced chamber Relief Valve - no sliding seals
- AWWA C509/UL/FM resilient seated gate valves (OS&Y)
- DCDA-II Single Check Bypass
- Silicone Elastomer Check Discs
- Flexible groove coupling UL/FM (between body and gate valves)
- Flanged ends ANSI B16.1 Class 125



Approved for Fire Protection, Waterworks, Plumbing, and Irrigation Applications.

Specifications

The Deringer 50G Reduce Pressure Detector Assembly (RPDA-II) shall utilize two independent check modules contained within a single valve housing constructed of entirely of stainless steel. 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. Valve assembly shall include two resiliently seated and inline serviceable AWWA C509 gate valves of type outside yoke and stem (OS&Y). Gate valves shall utilize a stainless steel stem with a pre-machined groove for installation of supervisory tamper switches. Assembly test cocks shall be handle-less and operate via a tamper resistant actuator. Assembly shall utilize a single full access service port and a cover with an "in line" replaceable elastomer seal. Relief Valve shall operate without the use of sliding seals and shall be constructed entirely of stainless steel. The bypass assembly shall include a meter registering gallons or cubic feet, a single check valve and test cocks. Assembly shall be serviceable without the use of special tools.

*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.



Materials

| | |
|--------------------|------------------------------|
| Valve Housing: | 304 Stainless Steel |
| Valve Cover: | 304 Stainless Steel |
| SOV Disks: | EPDM/304SS |
| SOV Shafts: | 304 Stainless Steel |
| Bypass Spring: | 302 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 |
| Bypass Components: | Lead Free Bronze |
| 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) |
| Bypass Internals: | ABS Polymer (NSF) |
| RV House: | Braided Stainless Steel Wire |

Standards

AWWA C511-07 Compliant
 NSF/ANSI 372, UL CERTIFIED
 LEAD FREE
 End Connections
 - Flange Connections:
 ANSI B16.1 Class 125



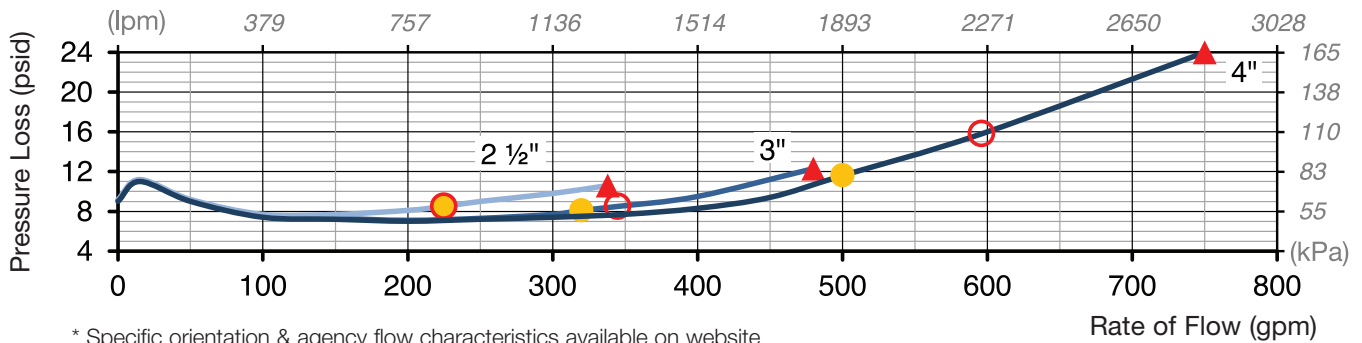
Pressure – Temperature

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

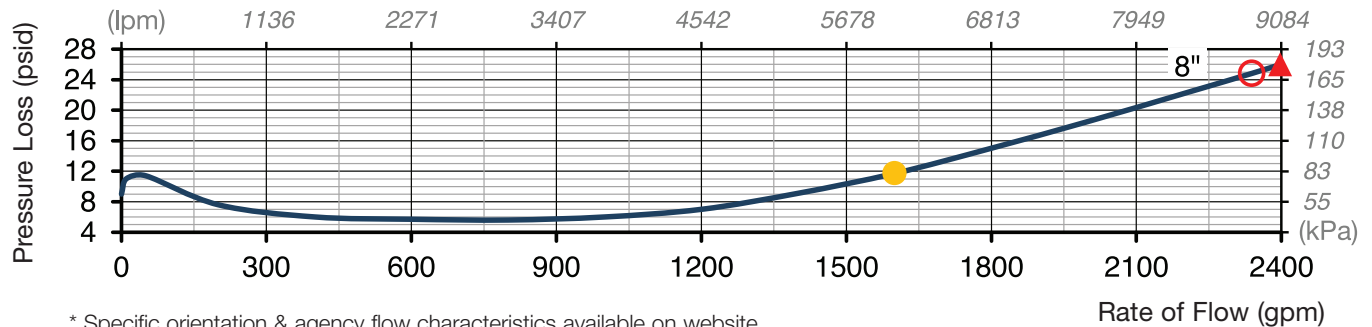
Teflon® is a registered trademark of The Chemours Company.
 Noryl® is a registered trademark of SABIC Global Technologies B.V.

Flow Performance

● = Rated Flow ▲ = UL Tested ○ = 15 fps

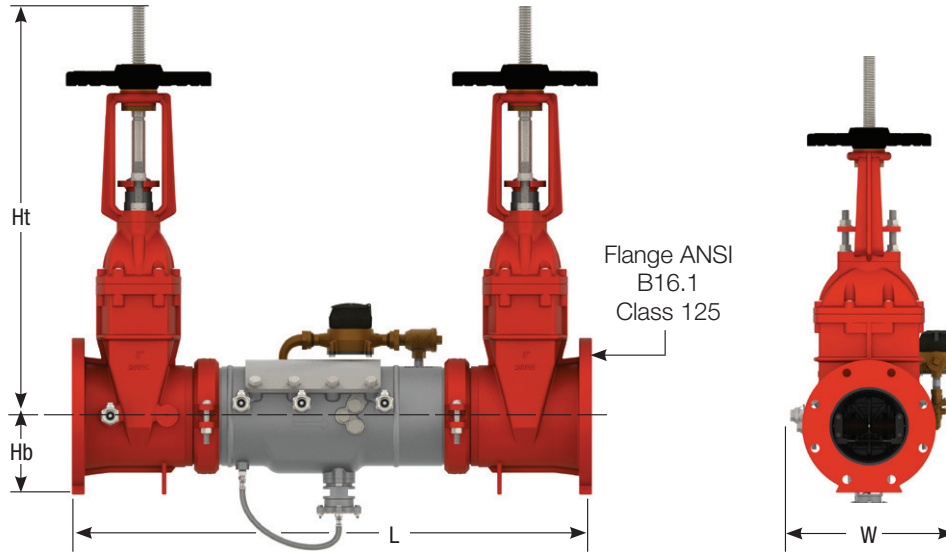


* Specific orientation & agency flow characteristics available on website



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Dimensions — Weights



| Size | Model | Ht | | Hb | | L | | Ht+Hb | | W | | Weight | |
|------|-------|------|------|------|-----|------|------|-------|------|------|-----|--------|-----|
| | | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 2½ | 50G | 19.0 | 483 | 9.3 | 236 | 31.9 | 810 | 28.3 | 719 | 12.6 | 320 | 132 | 60 |
| 3 | 50G | 19.5 | 495 | 9.3 | 236 | 31.9 | 810 | 28.8 | 732 | 12.6 | 320 | 136 | 62 |
| 4 | 50G | 22.5 | 572 | 9.3 | 236 | 33.9 | 861 | 31.8 | 808 | 12.6 | 320 | 170 | 77 |
| 6 | 50GX* | | | | | | | | | | | | |
| 8 | 50G | 39.4 | 1001 | 11.5 | 292 | 45.0 | 1143 | 51.0 | 1295 | 17.7 | 450 | 462 | 210 |

*For 6" models see Series Deringer 50GX



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