

## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Deringer™ 50GX Low Head Loss Reduced Pressure Detector Assembly

Sizes: 6"

The Deringer™ 50GX 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

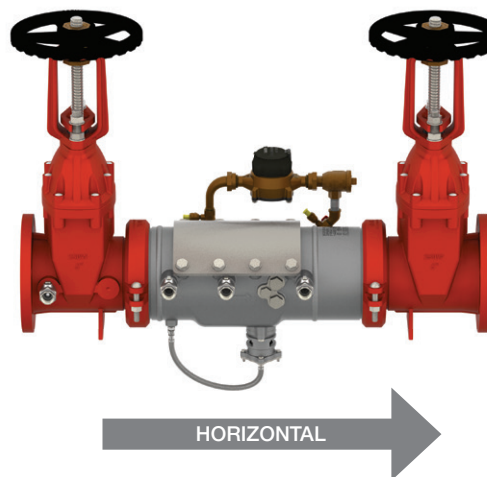
- Oversized checks for extreme performance
- Poppet action first check for more reliable Relief Valve closure
- Stainless steel braided wire sensing line
- Stem includes tamper switch groove
- Inline serviceable gate valves
- Stainless steel housing
- Tamper-resistant test cocks
- Patented Dual-action™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

\*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.



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

### Specifications

The Deringer 50GX 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 "inline" 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.



## 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 Hose:	Braided Stainless Steel Wire

Teflon® is a registered trademark of The Chemours Company.

Noryl® is a registered trademark of SABIC Global Technologies B.V.

## Pressure — Temperature

Temperature Range: 33°F – 140°F

Working Pressure: 10 – 175psi

## Standards

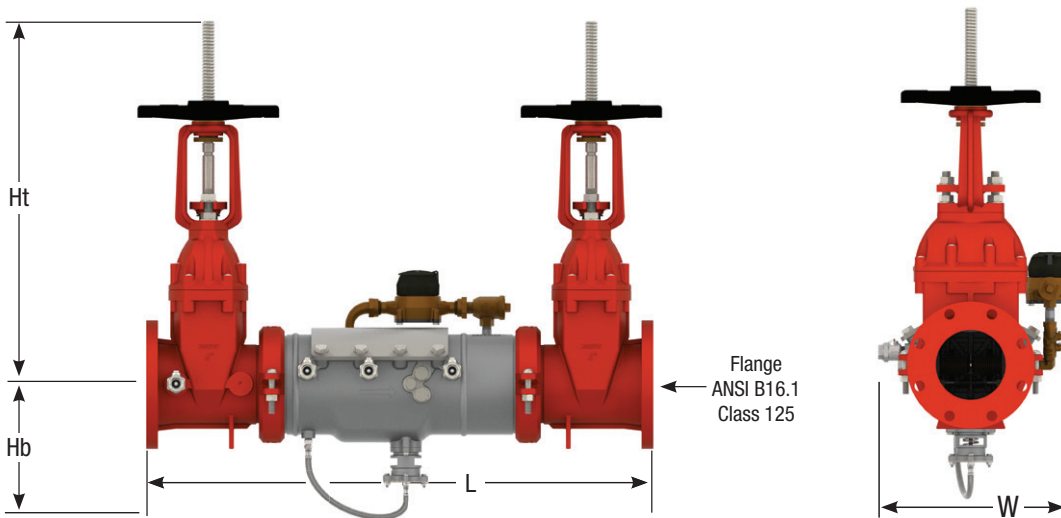
AWWA C511-07 Compliant  
NSF/ANSI 372, UL CERTIFIED  
LEAD FREE

End Connections

- Flange Connections:  
ANSI B16.1 Class 125



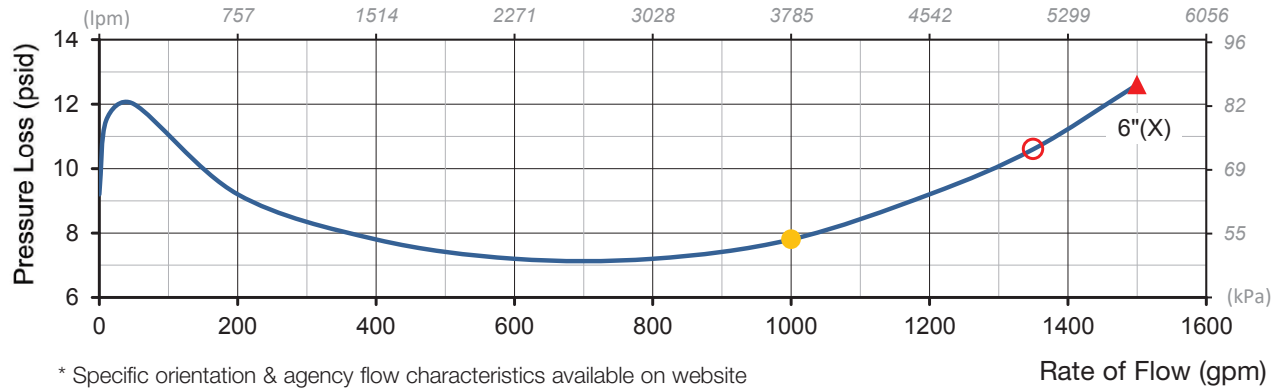
## Dimensions — Weights



Size	Model	Ht		Hb		Ht+Hb		L		W		Weight	
in.		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
6	50GX	30.9	784	10.5	266	41.3	1050	39.9	1014	15.1	384	338	153

# Flow Performance

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



**A WATTS Brand**

**USA: Backflow** T: (978) 689-6066 • F: (978) 975-8350 • AmesFireWater.com  
**USA: Control Valves** T: (713) 943-0688 • F: (713) 944-9445 • AmesFireWater.com  
**Canada:** T: (888) 208-8927 • F: (905) 481-2316 • AmesFireWater.ca  
**Latin America:** T: (52) 55-4122-0138 • AmesFireWater.com