Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

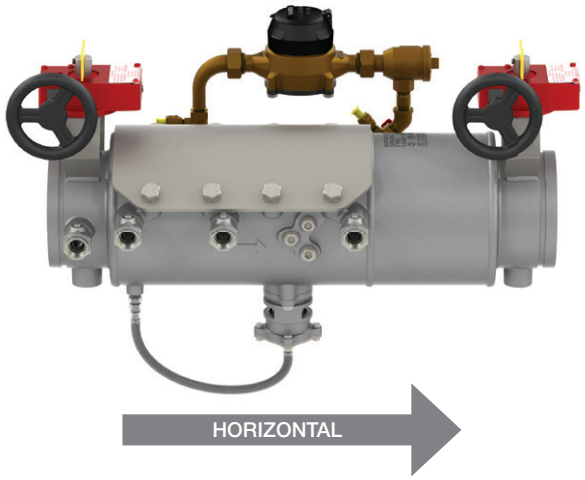
Approval _____ Representative _____

LEAD FREE*

Deringer™ 50X

Low Head Loss
Reduced Pressure Detector Assembly
RPDA-II

6"



The Deringer™ 50X Reduced Pressure Detector assembly 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.

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

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
- In-line 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 with no sliding seals
- AWWA C509/UL Classified/FM Approved resilient seated gate valves (OS&Y)
- DCDA-II single check bypass
- Flanged ends ANSI B16.1 Class 125
- Flexible groove coupling UL Classified/FM Approved

Specification

The Deringer 50X Reduce Pressure Detector assembly shall use two independent check modules contained within a single valve housing constructed of entirely of stainless steel. The 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 use replaceable silicone elastomer sealing discs. The valve assembly shall include two resiliently seated and in-line serviceable AWWA C509 gate valves of type outside yoke and stem (OS&Y). Gate valves shall use a stainless steel stem with a pre-machined groove for installation of supervisory tamper switches. Assembly test cocks shall be handle-less and operate by a tamper resistant actuator. The assembly shall use a single full access service port and a cover with an in-line replaceable elastomer seal. The 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. The assembly shall be serviceable without the use of special tools.

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.

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

AMES FIRE & WATERWORKS

A WATTS Brand

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:	PTFE 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

Pressure — Temperature

Temperature Range: 33°F – 140°F

Working Pressure: 10 – 175 psi

Standards

AWWA C511-07 Compliant

ANSI/NSF/CAN 61 UL Certified Health Effects

UL Certified to ANSI/NSF/CAN 372 LEAD FREE

End Connections

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

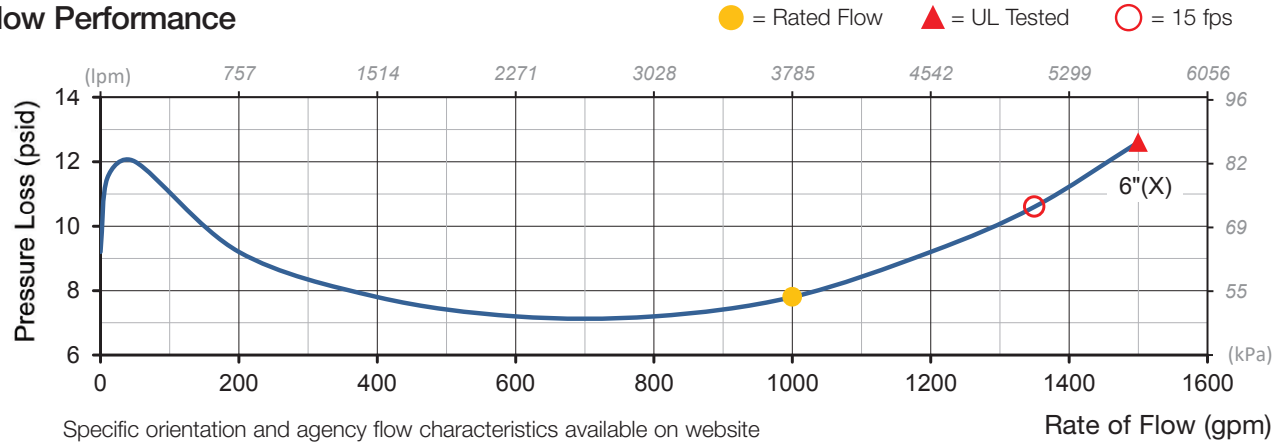
CLASSIFIED C UL US WATER QUALITY [MH64212] ANSI/NSF/CAN 61 ANSI/NSF/CAN 372 5NS5

FM APPROVED

ASSE 1047

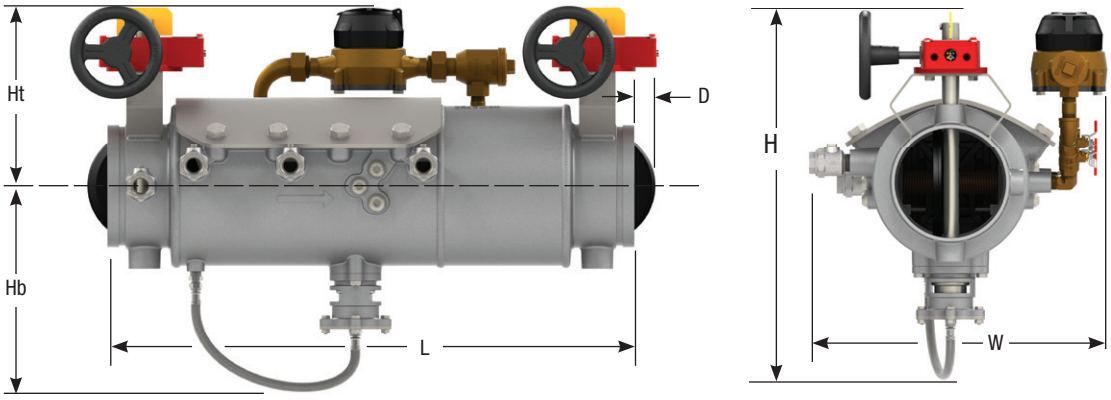
USC APPROVED

Flow Performance



Specific orientation and agency flow characteristics available on website

Dimensions — Weights



Size	Model	Ht		Hb		L		D		H		W		Weight	
in.		*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
6	50X	9.6	244	12.0	305	28.625	727	1.0	25	20.3	516	16.8	427	142	64

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