

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

LEAD FREE*

Deringer™ 40G Reduced Pressure Zone Assembly

2½" – 8"

The Deringer™ 40G Reduced Pressure 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

- 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
- Poppet action first check for more reliable relief valve closure
- Stainless steel braided wire sensing line
- Balanced chamber Relief Valve - no sliding seals
- AWWA C509/UL Classified/FM Approved resilient seated gate valves (OS&Y)
- Silicone elastomer check discs
- Flexible groove coupling UL Classified/FM Approved (between body and gate valves)
- Flanged ends ANSI B16.1 Class 125

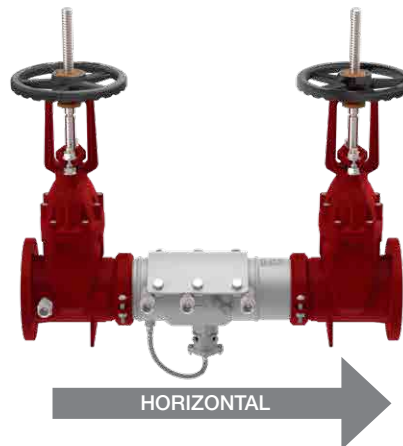
Specification

The Deringer 40G Reduced Pressure (RP) Zone assembly shall use two independent check modules contained within a single valve housing constructed 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 use replaceable silicone elastomer sealing discs. 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 utilize a stainless steel stem with a pre-machined groove for installation of supervisory tamper switches. Assembly shall utilize a stainless steel stem with a pre-machined groove for installation of supervisory tamper switches. Assembly shall have 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 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.

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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.

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:	PTFE 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 House:	Braided Stainless Steel Wire

Pressure – Temperature

Temperature Range: 33°F – 140°F

Working Pressure: 10 – 175 psi

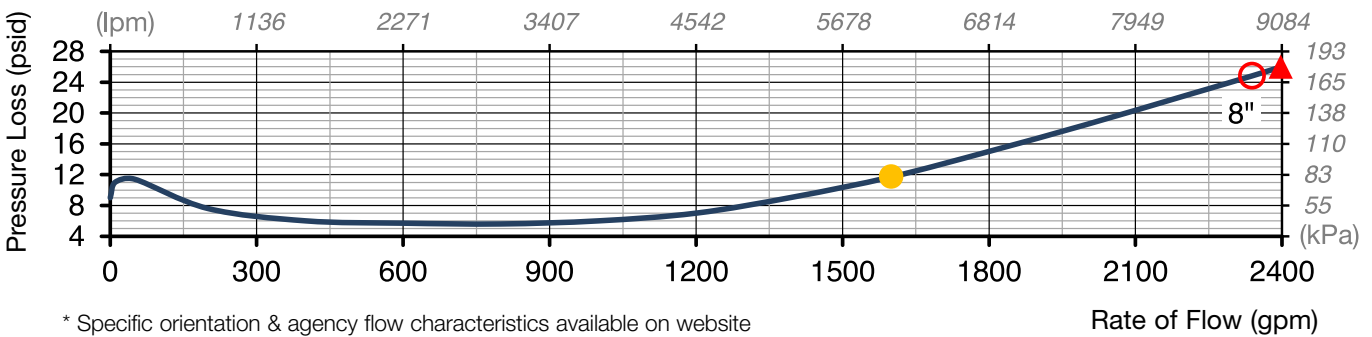
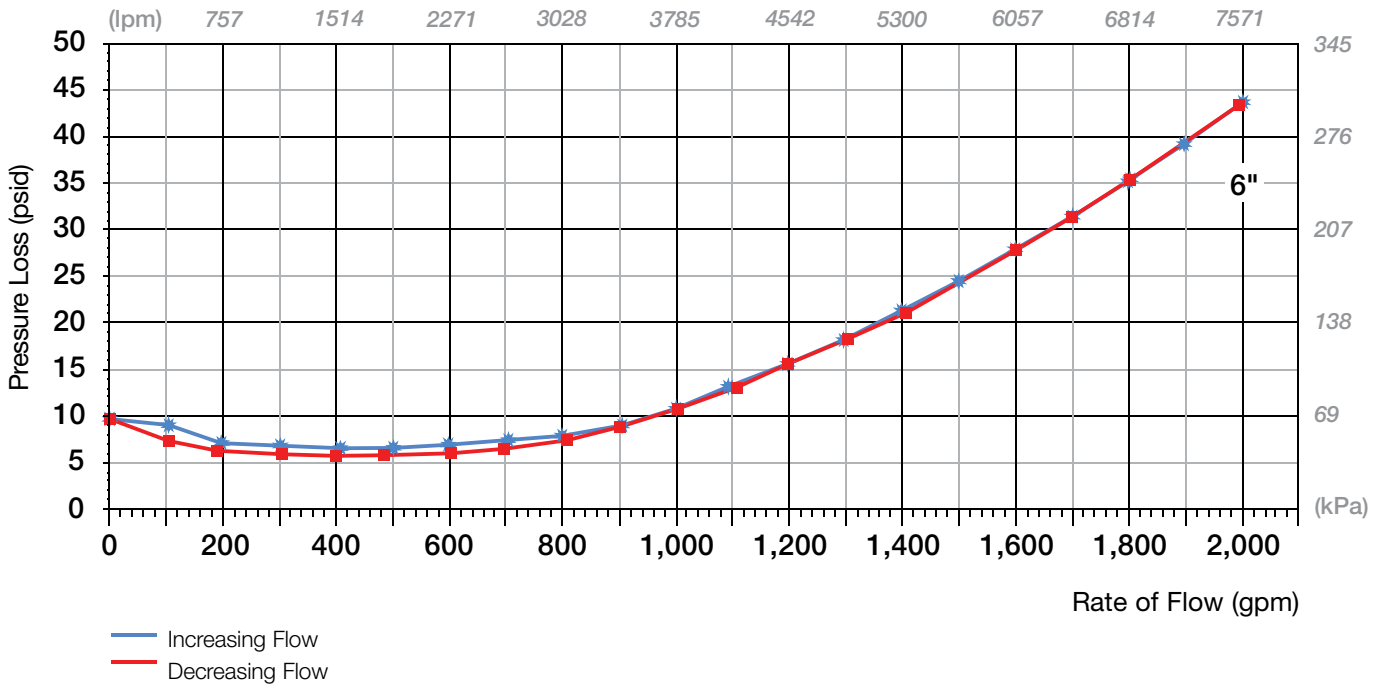
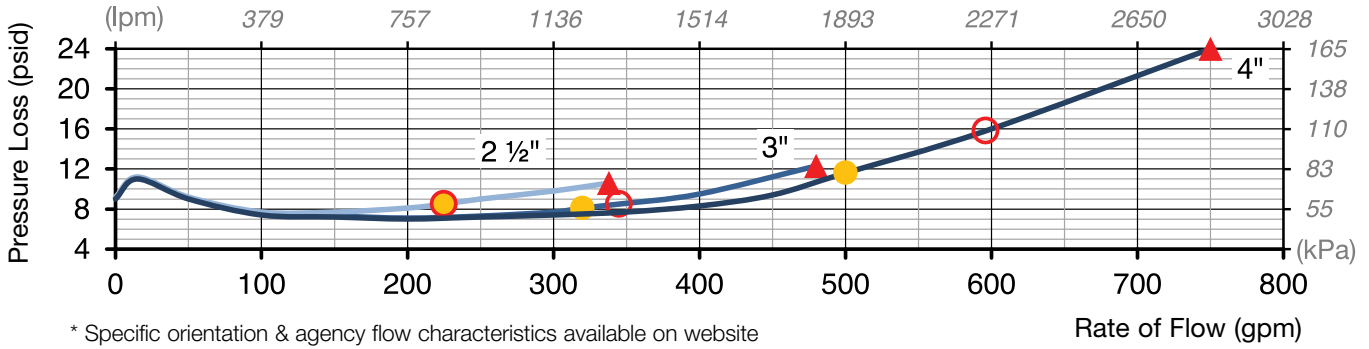
NOTICE

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.



Flow Performance

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



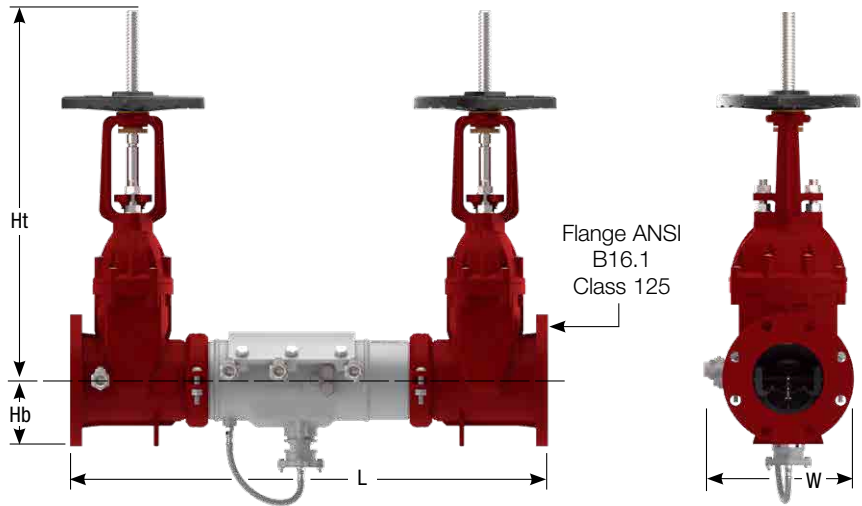
Standards

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

End Connection: Flange –
ANSI B16.1 Class 125



Dimensions – Weights



Size	Model	Ht		Hb		L		Ht+Hb		W		Weight	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg
2½	40G	19.0	483	9.3	236	31.9	810	28.3	719	11.0	279	125	57
3	40G	19.5	495	9.3	236	31.9	810	28.3	732	11.0	279	129	59
4	40G	22.5	572	9.3	236	33.9	861	31.8	808	11.0	279	163	74
6	40G	30.8	782	10.5	267	39.9	1013	41.4	1052	12.5	318	186	84
8	40G	39.4	1001	11.5	292	45.0	1143	51.0	1295	14.6	429	455	206



A WATTS Brand

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