

The Deringer 50 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.

Sizes: *2½", 3", 4", 6", 8"*

Working Pressure: *10-175psi (0.7-12.1 bar)*

Temperature Range: *33°-140°F (1°-60°C)*

End Connections

- **IPS Groove for Steel Pipe:** *AWWA C606*

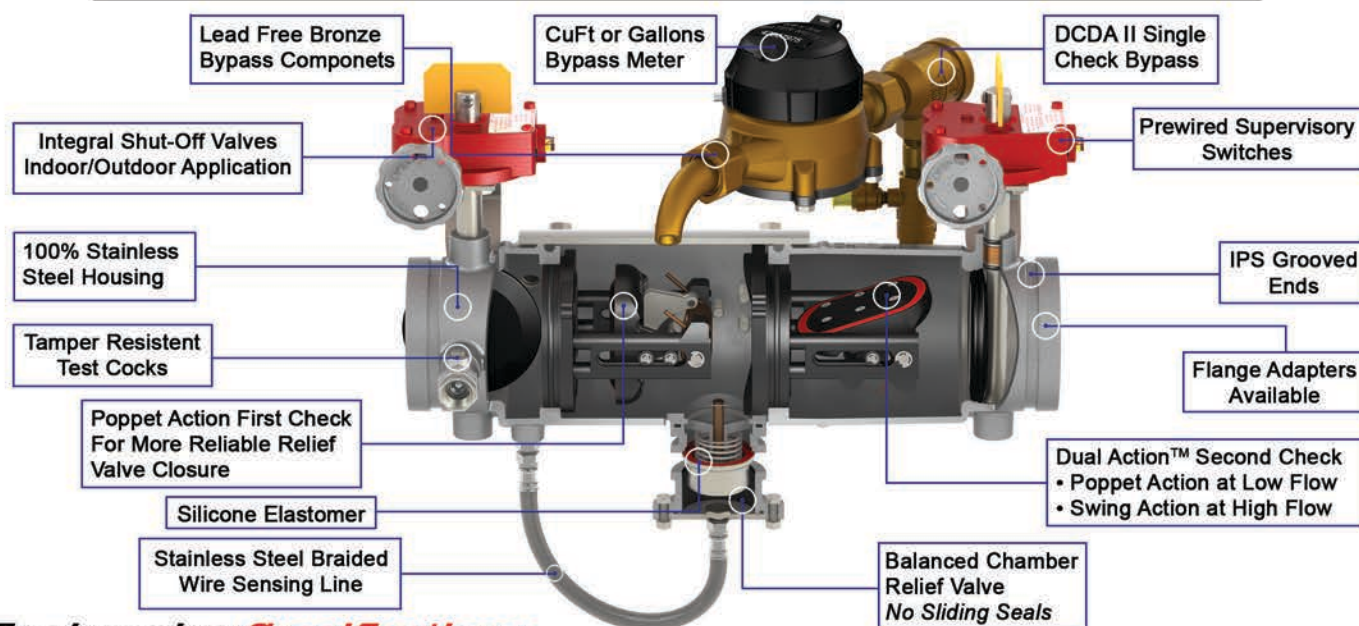
- **Flange Adapters:** *ANSI B16.1 Class 125*

Lead Free: *0.25% Maximum by Weight*



HORIZONTAL →

For Regulatory Approval Status Visit
www.backflowdirectapprovals.com



Engineering Specifications

The Deringer 50 Reduce Pressure Detector Assembly (RPDA) valve shall utilize two independent Dual Action Check modules and two integral resiliently seated shut-off 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 pre-wired supervisory tamper switches contained within a weatherproof actuator housing approved for both indoor and outdoor use. Dual Action Check modules 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. All bypass assembly components shall be lead free and include a meter registering either gallons or cubic feet, a single check valve and required test cocks. The 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.

Job Name: _____

Job Location: _____

Engineer: _____

Approval: _____

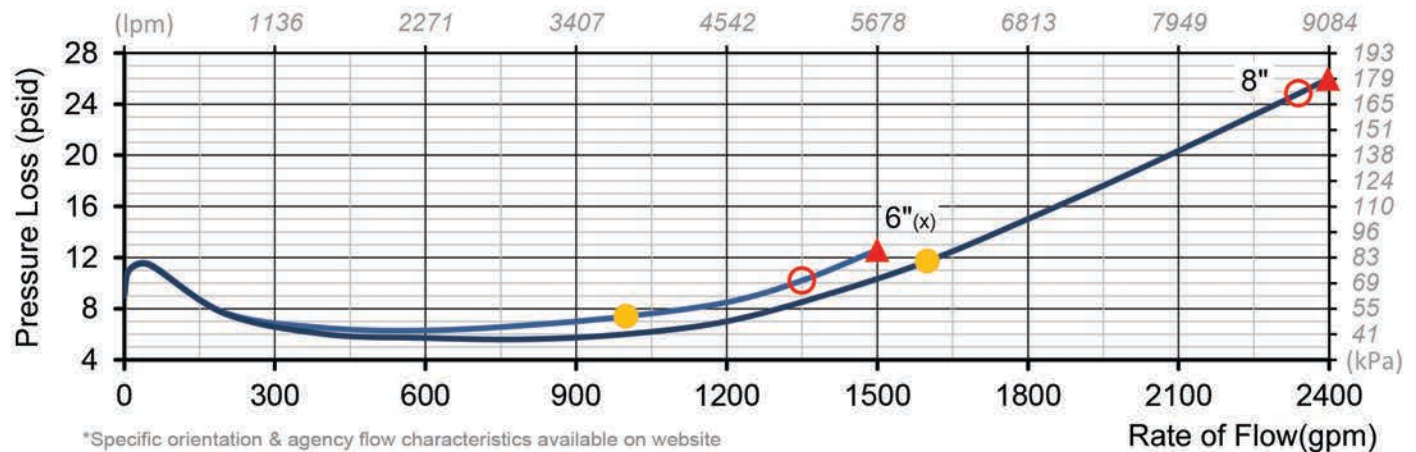
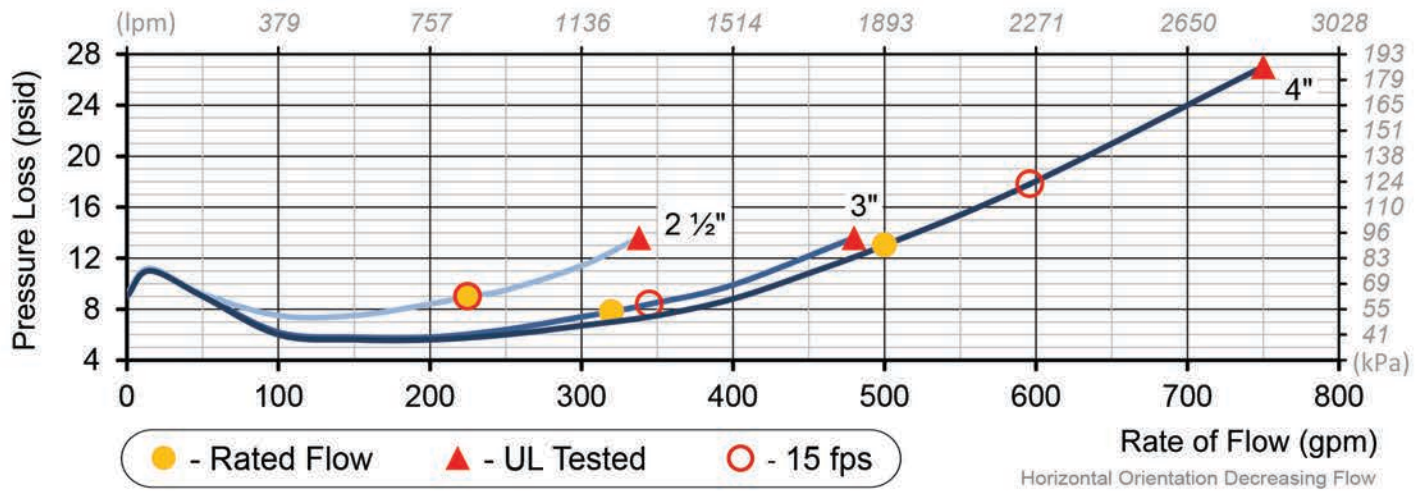
Contractor: _____

Approval: _____

Contractor's P.O. No: _____

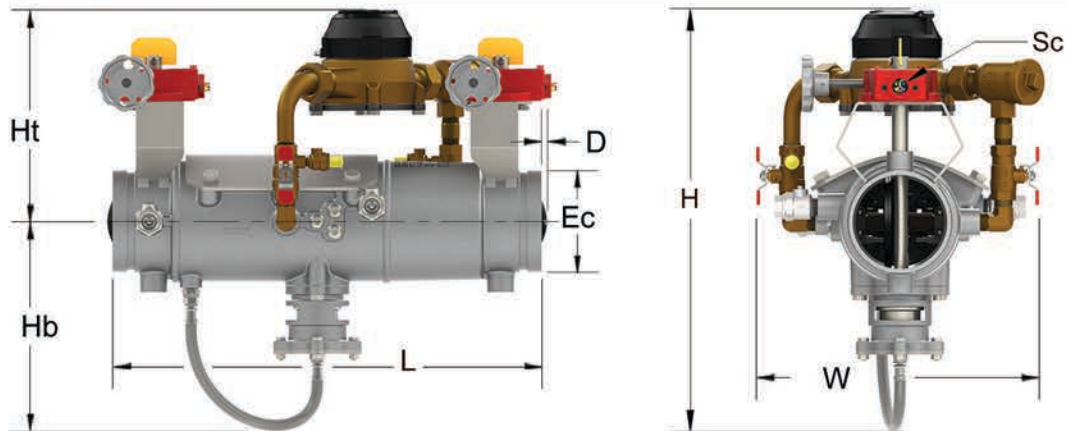
Representative: _____

Flow Performance



*Specific orientation & agency flow characteristics available on website

Measures & Materials



Size	Ht	Hb	L	Ec	D	H	W	Weight	Sc
in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	lbs kg	NPT
2 1/2 65	9.3 180	8.7 221	18.7 475	2 1/2 65	0.0 0	18.0 457	12.5 318	51 23	1/2"
3 80	9.3 188	8.7 221	18.7 475	3 80	0.0 0	18.0 457	12.5 318	53 24	1/2"
4 100	7.9 201	8.7 221	18.7 475	4 100	0.2 5	18.0 457	12.5 318	55 25	1/2"
6 150	9.6 244	10.7 272	28.4 721	6 150	1.0 25	20.3 516	16.8 351	135 61	1/2"
8 200	10.4 264	10.7 272	30.7 780	8 200	1.8 46	21.1 536	16.8 351	154 70	1/2"

Valve Housing: 304 Stainless Steel	SOV Bearings: Teflon/Bronze	Check Springs: 17-7 Stainless Steel
Valve Cover: 304 Stainless Steel	Non Wetted Bolts: Grade 8 Zinc Plated	Check Pins: 17-7/18-8 Stainless Steel
SOV Disks: EPDM/304SS	Wetted Fasteners: 18-8 Stainless Steel	Check Seats: Noryl Polymer (NSF)
SOV Shafts: 304 Stainless Steel	Check Disks: Silicone (NSF)	O-Rings: Buna-N (NSF)
Bypass: Lead Free Bronze	RV Housing: 304 Stainless Steel	RV Hose: Braided Stainless Steel Wire