

# Engineering Specification

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

## LEAD FREE\*

# Deringer™ 20X

## Low Head Loss Double Check Valve Assembly

4" & 6"

The Deringer™ 20X Double Check Valve assembly is designed to prevent non-health hazard pollutants from entering the potable water supply system caused by backpressure and/or backsiphonage conditions.

### Features

- Oversized checks for extreme performance
- Integral shutoff valves designed for indoor or outdoor application
- 100% stainless steel housing
- Tamper-resistant test cocks
- Patented Dual-action™ check modules
  - Poppet action at low flow
  - Swing action at high flow
- Silicone elastomer check discs
- Prewired supervisory (alarm) switches
- Flanged adapters available
- IPS grooved ends

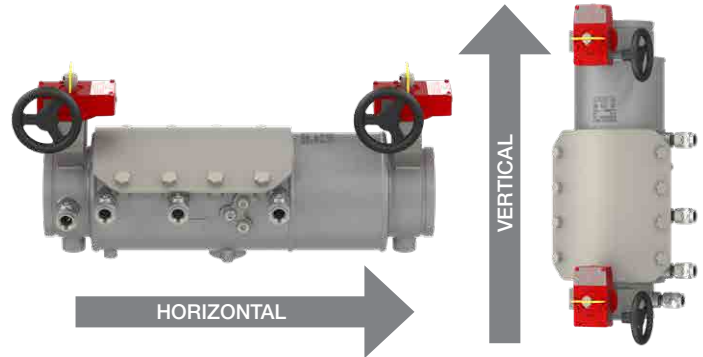
### Specification

Deringer 20X Double Check valve shall use two independent Dual-action check modules and two integral resiliently seated shutoff 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 prewired 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 use replaceable silicone elastomer sealing discs. The assembly test cocks shall be handle-less and operate through a tamper resistant actuator. The assembly shall have a single full access service port and cover with an in-line replaceable elastomer seal. The assembly shall be serviceable without special tools and approved for both horizontal and vertical applications.

\*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
SOV Bearings:	PTFE Fluoropolymer/Bronze
Non-wetted Bolts:	Grade 8 Zinc Plated
Check Disks:	Silicone (NSF)
Wetted Fasteners:	18-8 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)

### Pressure — Temperature

Temperature Range: 33°F – 140°F

Working Pressure: 10 – 175 psi

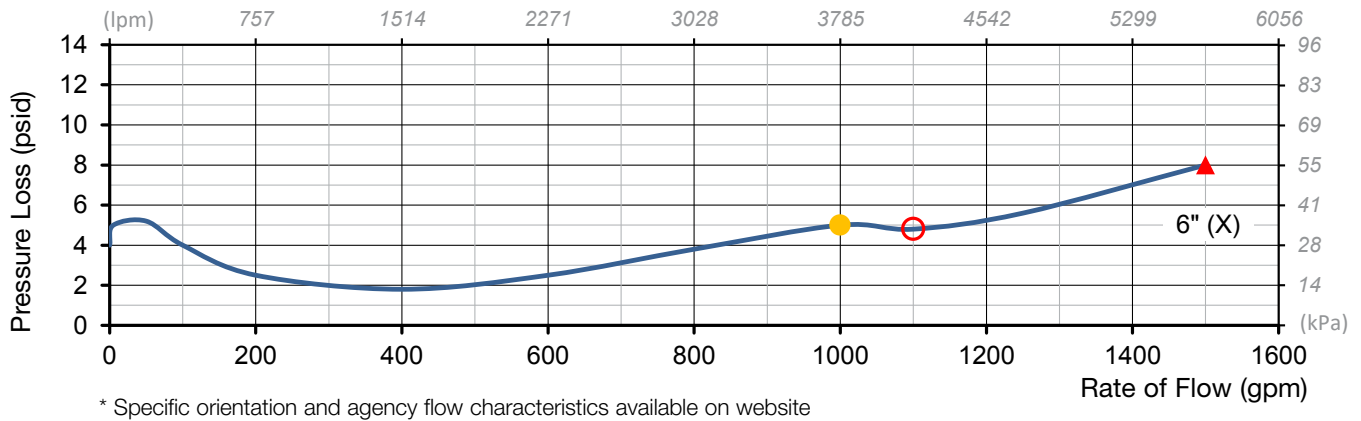
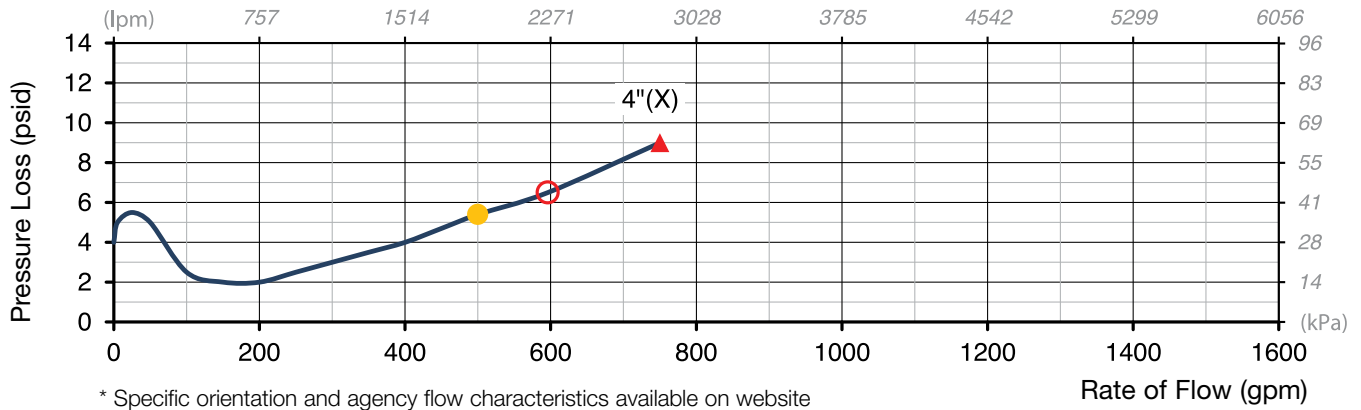
### NOTICE

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

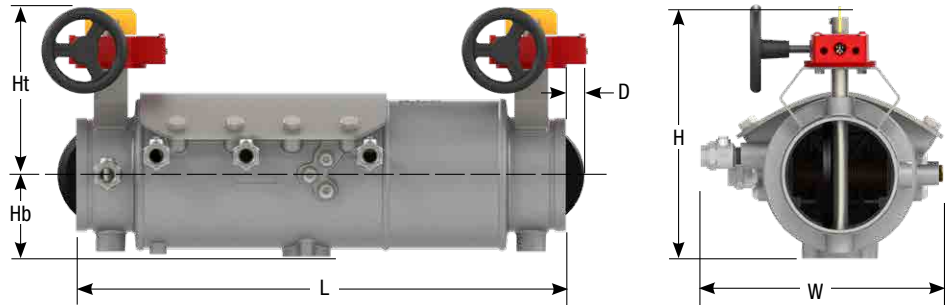
● = Rated Flow ▲ = UL Tested ○ = 15 fps



## Standards

- AWWA C510-07 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

## Dimensions – Weights



Size	Model	Ht		Hb		L		D		H		W		Weight	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg
4	20X	8.6	218	3.3	84	23.6	599	0.2	5	12.0	305	12.2	310	69	31
6	20X	9.6	244	4.8	122	28.6	727	1.0	25	14.4	366	13.8	351	134	61



**A WATTS Brand**

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