

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 709DCDA

Double Check Detector Assembly

3" – 10"

Series 709DCDA Double Check Detector Assemblies are designed exclusively for use in accordance with water authority containment requirements. The series is mandatory to prevent the reverse flow of fire protection system substances, such as glycerin wetting agents, stagnant water, and water of non-potable quality from being pumped or siphoned into the potable water line. The iron components of the backflow preventer are coated with ArmorTek®, a patented three-part advanced epoxy system engineered to reduce microbial-induced corrosion (MIC) and protect exposed metal substrate. All sizes are standardly equipped with resilient seated OSY shutoff valves, $\frac{5}{8}$ " x $\frac{3}{4}$ " meter, and ball type test cocks.

The assembly not only detects leaks, with emphasis on the cost of unaccountable water, but also incorporates a meter allowing the water utility to (1) detect leaks underground that historically create great annual cost due to waste and (2) provide a detection point for unauthorized use, helping locate illegal taps. The modular check design concept facilitates maintenance and assembly access.

Features

- Body construction fused epoxy coated cast iron
- Replaceable bronze seats
- Maximum flow at low pressure drop
- Compact for economy combined with performance
- Design simplicity for easy maintenance
- ArmorTek coating technology to resist corrosion of internals
- Furnished with $\frac{5}{8}$ " x $\frac{3}{4}$ " bronze meter
- No special tools required for servicing

Specification

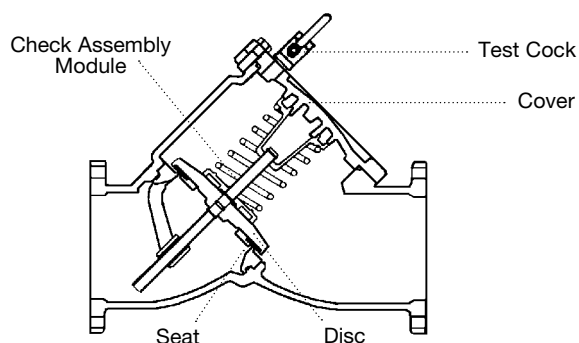
A Double Check Detector assembly shall be installed on fire protection systems when connected to a potable water supply. Degree of hazard present is determined by the local authority having jurisdiction. The unit shall be a complete assembly including UL Listed resilient seated OSY shutoff valves and test cocks. The unit shall be UL Classified and FM Approved with UL Classified and FM Approved OSY shutoff valves. The auxiliary line shall consist of an approved backflow preventer and water meter. The assembly shall meet the basic requirements of ASSE 1048; AWWA Std. C510 for Double Check Valves. Iron components of the backflow preventer shall incorporate ArmorTek coating technology, delivering integrated protection against electrochemical corrosion and microbial-induced corrosion. Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California. The assembly shall be Watts Series 709DCDA.



709DCDA-OSY

Check Assembly Module

The check assembly features a modular design concept that facilitates complete maintenance and assembly by retaining the spring load. The first and second check valve spring modules are not interchangeable.



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.

Inquire with governing authorities for local installation requirements.

Materials

Body:	Cast iron
Coating:	ArmorTek powder coating, applied to internal and external surfaces
Seat:	Bronze
Disc Holder:	Bronze
Trim:	Stainless steel
Check Valve Discs:	Rubber
Test Cocks:	Bronze

Model/Option

OSY	UL Classified and FM Approved outside stem and yoke resilient seated gate valves
CFM	Cubic feet per minute meter
GPM	Gallons per minute meter
LF	4" – 10" without shutoff valves

Pressure – Temperature

Temperature Range: 33°F – 110°F (0.5°C – 43°C) continuous, 140°F (60°C) intermittent

Maximum Working Pressure: 175 psi (12.1 bar)

Standards

AWWA Standard C510

Approvals



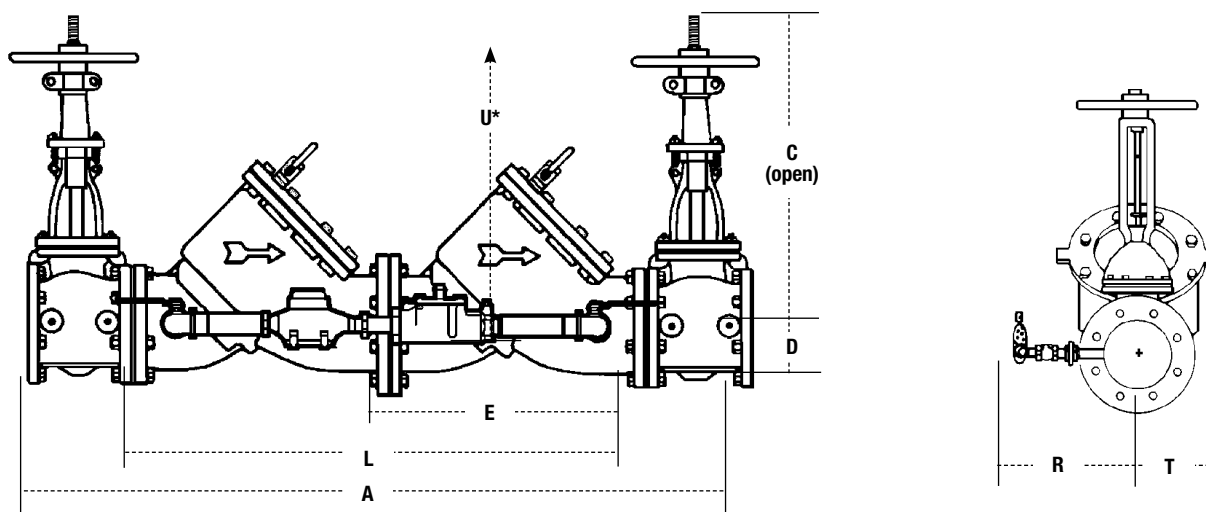
Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California. Sizes 4" – 10" approved for horizontal and vertical "flow up." Size 3" approved for horizontal only.

FM Approved 4" – 10" vertical "flow up."

Insulated Enclosures

For more information on WattsBox insulated enclosures, download ES-WB at Watts.com.

Dimensions – Weights



SIZE			DIMENSIONS												WEIGHT			
	A		C		D		E		L		R		T		U*		W/OSY† gates	
<i>in.</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lb</i>	<i>kg</i>
3	40	1016	18 ⁷ / ₈	479	3 ¹ / ₂	89	12	305	24	610	14	356	3	76	14	356	190	86
4	52	1321	22 ³ / ₄	578	3 ³ / ₄	95	17	432	34	864	15	381	6	152	14	356	403	183
6	62 ¹ / ₂	1588	30 ³ / ₈	765	4 ¹ / ₂	114	21	533	41 ¹ / ₂	1054	16	406	7 ¹ / ₂	191	16	406	727	330
8	75	1905	37 ³ / ₄	959	5 ¹ / ₂	140	26	660	52	1321	17	432	9	229	21	533	1327	602
10	90	2286	45 ³ / ₄	1162	6 ¹ / ₂	165	32	813	64	1626	18	457	10 ¹ / ₄	260	25	635	2093	949

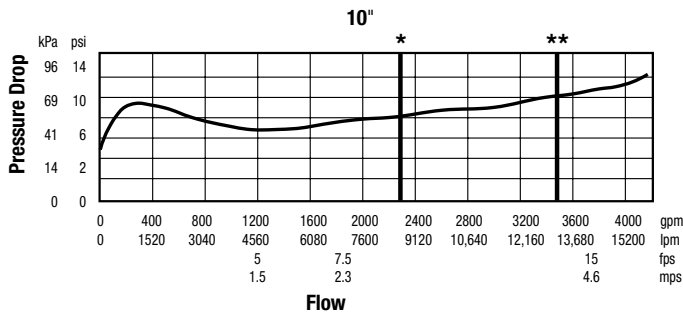
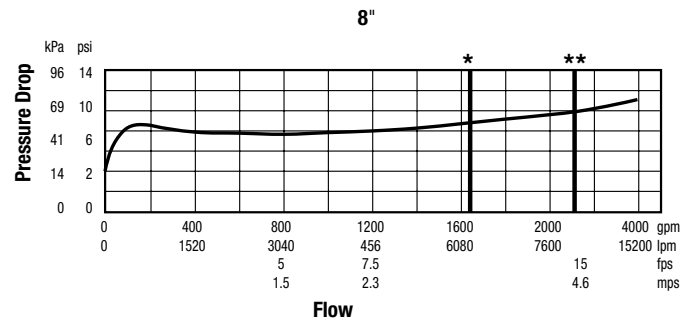
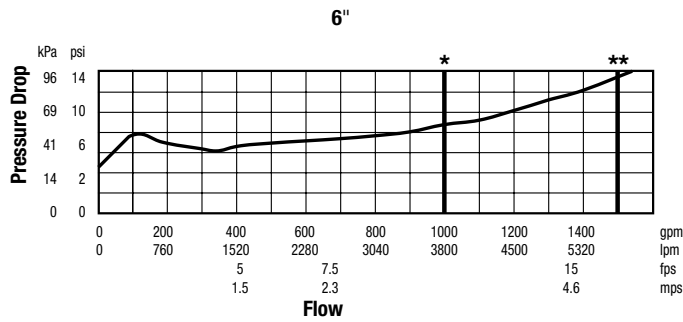
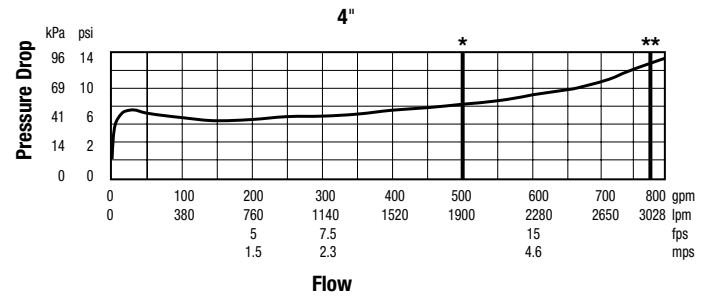
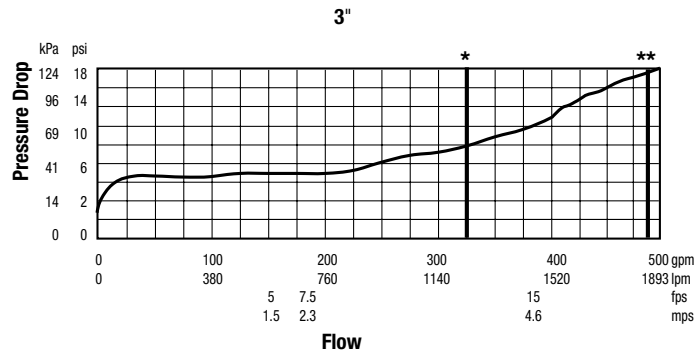
* Service clearance for check assembly from center.

†UL Classified and FM Approved backflow preventers must include UL Classified and FM Approved OSY.

Capacity

*Rated flow

**UL rated flow



USA: T: (978) 689-6066 • Watts.com

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Latin America: T: (52) 55-4122-0138 • Watts.com