

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 709DCDA

Double Check Detector Assemblies

Sizes: 3" – 10"

Series 709DCDA Double Check Detector Assemblies are designed exclusively for use in accordance with water authority containment requirements. It is mandatory to prevent the reverse flow of fire protection system substances, i.e. glycerin wetting agents, stagnant water and water of non-potable quality from being pumped or siphoned into the potable water line.

Benefits: Detects leaks . . . with emphasis on the cost of unaccountable water; incorporates a meter which allows the water utility to:

- Detect leaks underground that historically create great annual cost due to waste.
- Provide a detection point for unauthorized use. It can help locate illegal taps.

Modular check design concept facilitates maintenance and assembly access. The coating on this backflow assembly uses ArmorTek™ technology to resist corrosion due to microbial induced corrosion (MIC) or 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.

Features

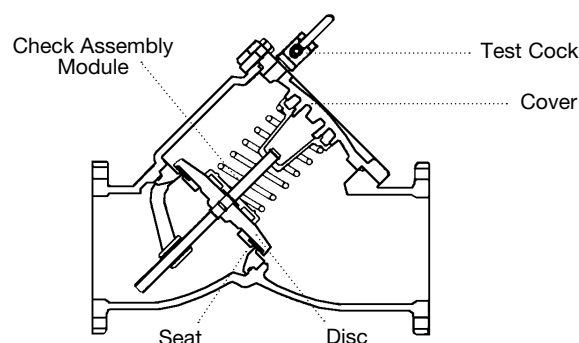
- Body construction fused epoxy coated cast iron
- Replaceable bronze seats
- Maximum flow at low pressure drop
- Compact for economy combined with performance
- Design simplicity for easy maintenance
- Utilizes advanced ArmorTek™ coating technology to resist corrosion of internals
- Furnished with $\frac{5}{8}$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

Specifications

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/FM approved with UL/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. The valve body shall utilize a coating system with built in electrochemical corrosion inhibitor and microbial inhibitor. Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California. Assembly shall be a Watts Series 709DCDA.



709DCDAOSY



Check Assembly Module

Features a modular design concept which facilitates complete maintenance and assembly by retaining the spring load.

First and second check valve spring modules are not interchangeable.

Now Available WattsBox Insulated Enclosures.

For more information, send for literature ES-WB.

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.

NOTICE

Inquire with governing authorities for local installation requirements

Materials

Body:	Epoxy coated cast iron
Seat:	Bronze
Disc Holder:	Bronze
Trim:	Stainless steel
Check Valve Discs:	Rubber
Test Cocks:	Bronze

Models

Suffix:

OSY UL/FM 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° – 43°C) continuous,
140°F (60°C) intermittent

Maximum Working Pressure: 175psi (12.1bar)

Standards

AWWA Standard C510

Approvals



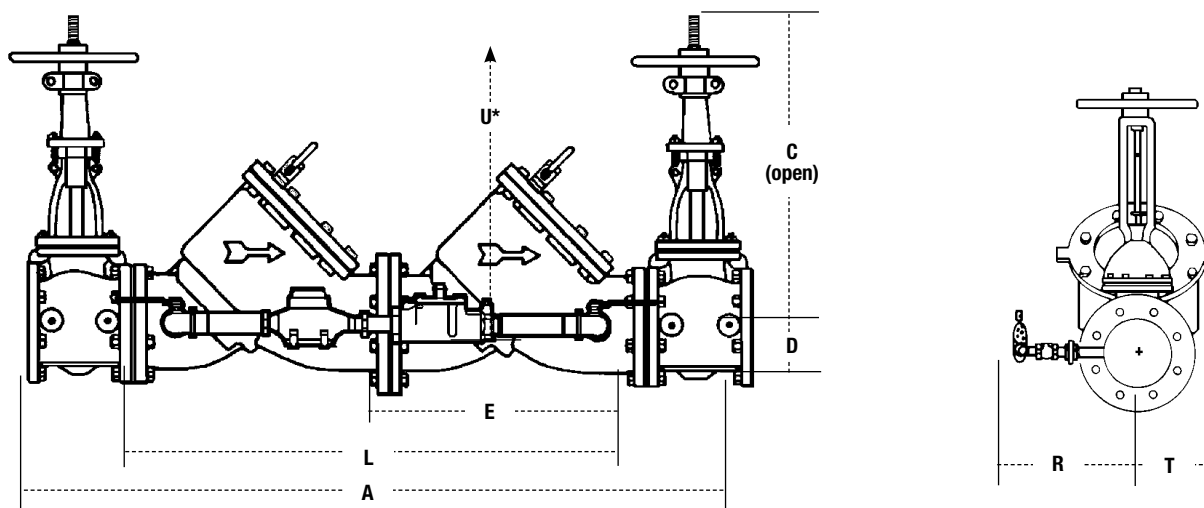
Approved by the foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

Sizes 4" – 10" approved for horizontal and vertical "flow up".

Size 3" approved for horizontal only.

Factory Mutual approved 4" – 10" vertical "flow up".

Dimensions – Weights



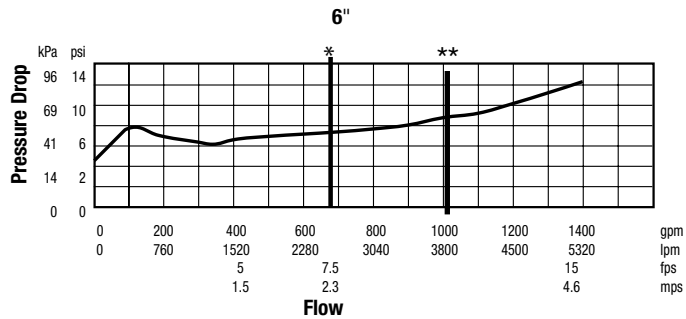
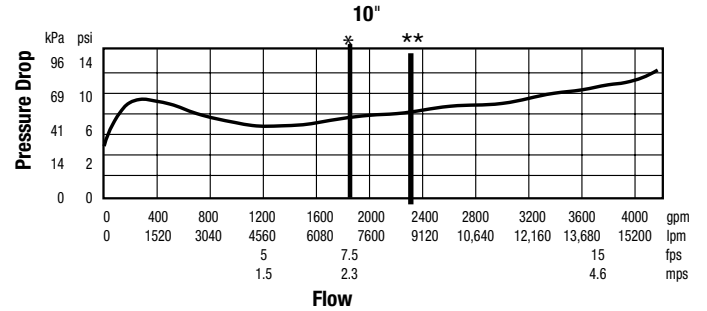
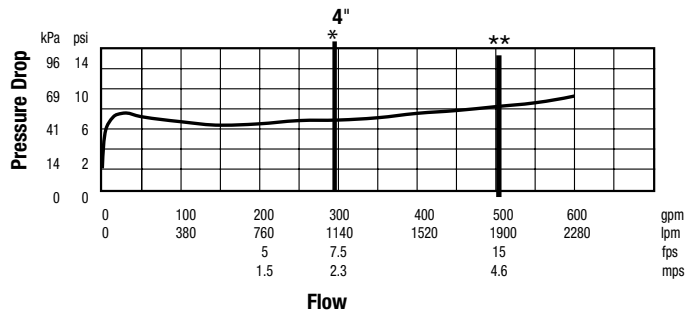
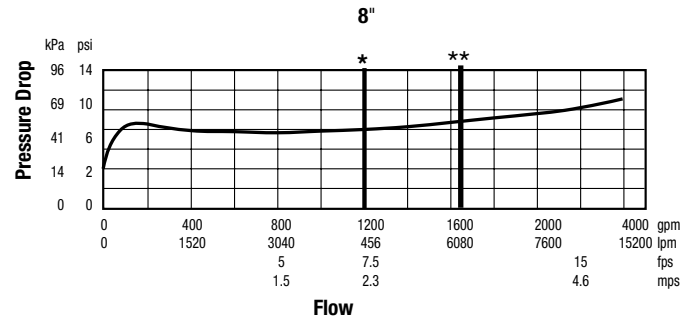
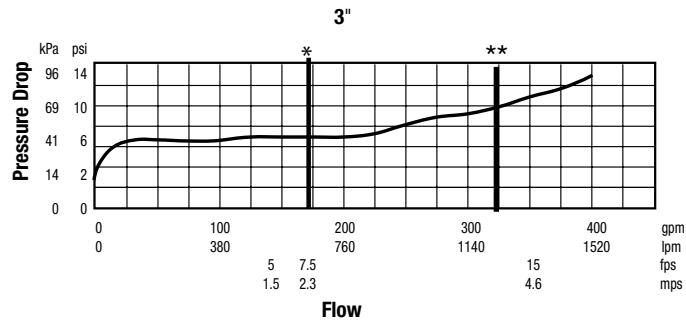
SIZE		DIMENSIONS														WEIGHT	
In.	A		C		D		E		L		R		T		U*		W/OSY† gates lbs. kgs.
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
3	40	1016	18 ³ / ₈	479	3 ¹ / ₂	89	12	305	24	610	14	356	3	76	14	356	190 86
4	52	1321	22 ³ / ₄	578	3 ³ / ₄	95	17	432	34	864	15	381	6	152	14	356	403 183
6	62 ¹ / ₂	1588	30 ¹ / 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/FM approved backflow preventers must include UL/FM approved OSY.

Capacity

*Typical maximum system flow rate (7.5 ft./Sec.) **UL rated flow



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