Series 770DCDA
DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER

Sizes: 4", 6", 8"

Series 770DCDA is designed for superior performance in protecting the potable water supply from backflow from fire sprinkler systems and identifying system leaks or unauthorized water usage. Water purvayors are mandated by federal law to maintain the drinking water supply within EPA standards. Non-potable piping systems such as fire sprinkler lines present a potential hazard due to backflow without proper backflow prevention.

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

- Detect leaks that waste significant amounts of water.
- It provides a detection point for unauthorized use, helping to locate illegal taps.

MODULAR DESIGN

Modular check design concept facilitates maintenance and assembly access. All sizes are standardly equipped with resilient seated OS&Y gate valves, 5/8 x 3/4 GPM (gallons per minute) or CFM meter and ball type test cocks.

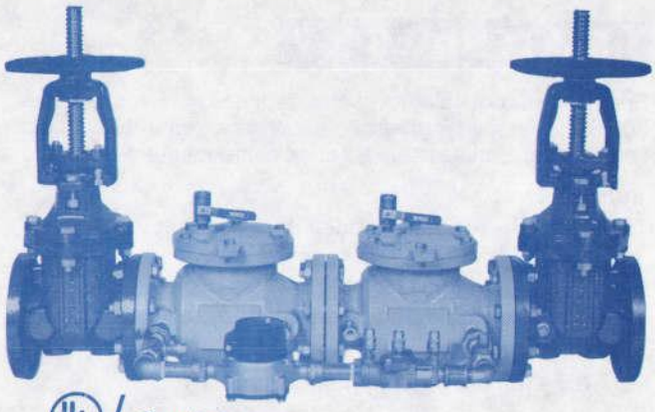
FEATURES

- **Body construction fused epoxy coated ductile iron**
- **Replaceable bronze seats**
- **Stainless steel internal parts**
- **Maximum flow at low pressure drop for fire systems**
- **Compact for ease of installation**
- **Design simplicity for easy maintenance**
- **Furnished with 5/8 x 3/4 bronze GPM meter**

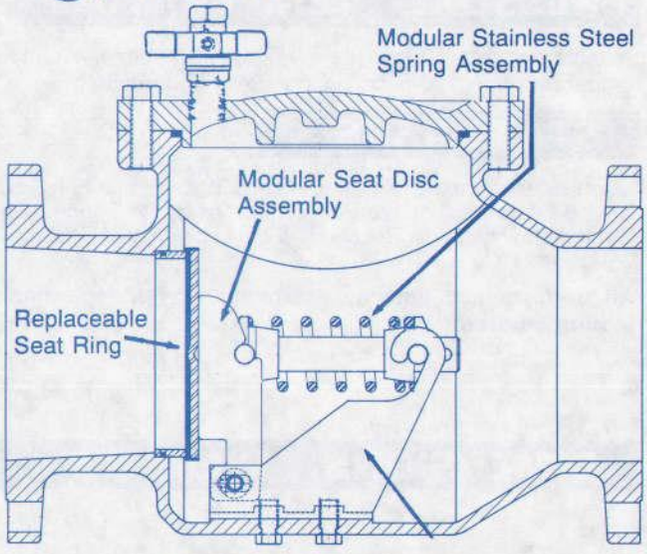
SPECIFICATIONS

A double detector check backflow preventor shall be installed at each noted location. The main assembly shall consist of two positive seating 300 Series stainless steel check modules with captured center stem guided springs and rubber seat discs housed in a ductile iron body. The check module seats and seat discs shall be replaceable. The main assembly shall also include two resilient seated isolation valves and four test cocks. The bypass line shall be hydraulically sized to accurately measure low flows. The bypass line shall consist of a meter, a small diameter double check assembly with test cocks and isolation valves. The complete assembly shall meet the requirements of U/L, FM, ASSE and CSA. Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California and shall be a Watts Regulator Co. Series 770DCDA OSYRW.

Important: ***Inquire with governing authorities for local installation requirments.***



UL / FM Listed



Toggle Linkage Patent No. 5176172

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.

DESIGN CRITERIA

Fire protection systems have two critical hydraulic features. Rated fire line flow is evaluated at 15 feet per second flow velocity by rating agencies. Additionally, 90% of all fires are extinguished by four sprinkler heads or less resulting in pressure drop consideration at 100 GPM and less. Series 770DCDA is designed for a very low flat pressure loss at all flows for consistant performance and easy system design.

World Class Valves

WATTS® REGULATOR
BACKFLOW PREVENTION DIVISION
Since 1874

Hdqtrs: 815 Chestnut St., No. Andover, MA 01845-6098 USA
Mail: Box 628, Lawrence, MA 01842-1328 **Telex:** 94-7460
Tel. (508) 688-1811 **Fax:** (508) 794-1848
Watts Industries (Canada) Inc.
Tel. (416) 851-8591 **Fax:** (416) 851-8788
Watts Regulator (Nederland) b.v. **Telex:** 844-35365

MATERIALS

Epoxy coated ductile iron body, bronze replaceable seats, 300 Series stainless steel chemically resistant rubber check valve discs. Stainless steel check components cover bolts.

Suffix:

- ☐ **OSYRW** - resilient wedge OS&Y shut-off valves (standard)
- ☐ **GPM** - gallons per minute meter

OPTIONS: (options can be combined)

- ☐ **CFM** - cubic feet per minute meter.
- ☐ **RR** - remote reading meter

PRESSURE - TEMPERATURE

Suitable for supply pressures up to 175 PSI and water temperatures to 110°F continuous, 140°F intermittent.

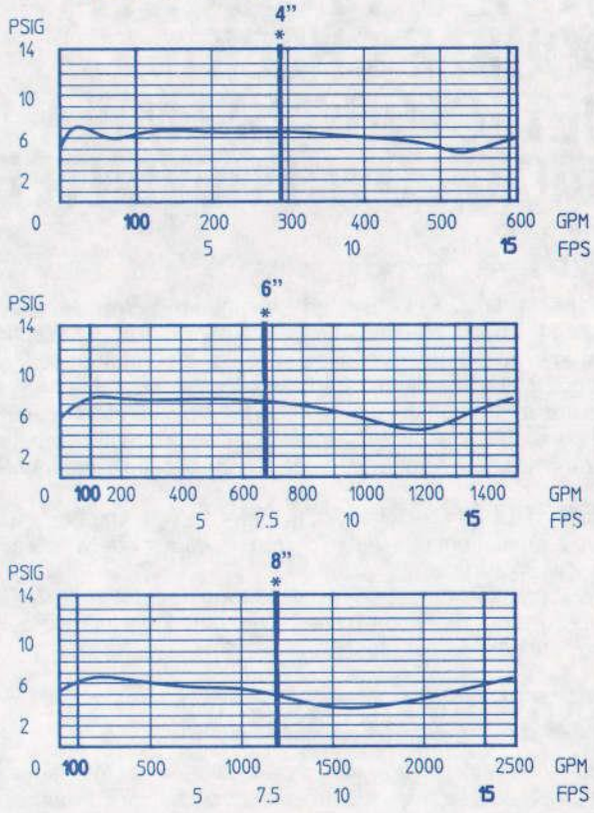
STANDARDS

Meets or exceeds the following: ASSE, CSA, UL and FM. Size 4" & 8" approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

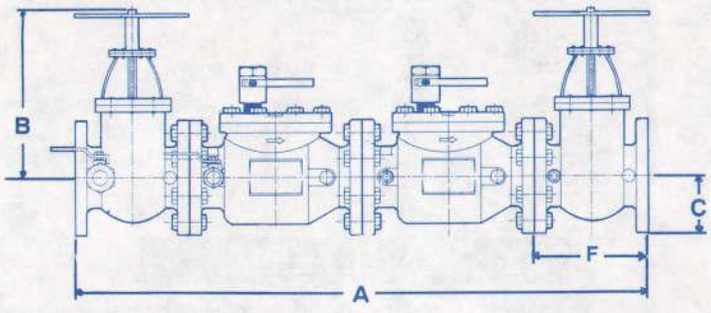
All performance data as established by independent testing laboratories.

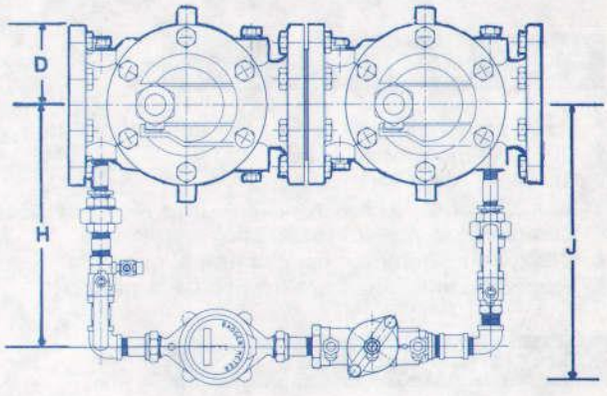
CAPACITY

*Typical maximum system flow rate (7.5 feet/sec.)



DIMENSIONS - WEIGHTS





Size	Type	A	B	C	D	F	H	J	Weight (lbs.) Approx. Each
4"	770DCDAOSYRW	47.13	23.38	4.50	5.81	9.00	14	16	353
6"	770DCDAOSYRW	58.50	30	5.50	7.38	10.50	16	18	670
8"	770DCDAOSYRW	70.38	40	6.75	8.81	11.50	18	20	1121

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