

Series 757DCDA/757NDCDA Double Check Detector Assemblies are used to prevent backflow of non-health hazard pollutants that are objectionable but not toxic, from entering the potable water supply system. The 757DCDA/757NDCDA may be installed under continuous pressure service and may be subjected to backpressure and backsiphonage. Series 757DCDA/757NDCDA is used primarily on fire line sprinkler systems when it is necessary to monitor unauthorized use of water.

Features

- Extremely compact design
- 70% Lighter than traditional designs
- 304 (Schedule 40) stainless steel housing & sleeve
- Groove fittings allow integral pipeline adjustment
- Patented tri-link spring check provides lowest pressure loss
- Unmatched ease of serviceability
- Available with grooved butterfly valve shutoffs
- May be used for horizontal, vertical or N pattern installations
- Replaceable check disc rubber

Specifications

The Double Check Detector Assembly shall consist of two independent tri-link check modules within a single housing, sleeve access port, four test cocks and two drip tight shutoff valves. Tri-link checks shall be removable and serviceable, without the use of special tools. The housing shall be constructed of 304 Schedule 40 stainless steel pipe with groove end connections. Tri-link checks shall have reversible elastomer discs and in operation shall produce drip tight closure against reverse flow caused by backpressure or backsiphonage. The bypass assembly shall consist of a meter, which registers in either gallon or cubic measurement, a double check backflow assembly and required test cocks. Assembly shall be a Watts Regulator Company Series 757DCDA/757NDCDA.



Series 757DCDA 757NDCDA

Double Check Detector Assemblies
Sizes: 2 1/2" – 10"

Available Models

Suffix:

OSY – UL/FM outside stem and yoke resilient seated gate valves

BFG – UL/FM grooved gear operated butterfly valves with tamper switch

Materials

Housing & Sleeve: 304 (Schedule 40) Stainless Steel

Elastomers: EPDM, Silicone and Buna-N

Tri-link Checks: Noryl[®], Stainless Steel

Check Discs: Reversible Silicone or EPDM

Test Cocks: Bronze Body Nickel Plated

Pins & Fasteners: 300 Series Stainless Steel

Springs: Stainless Steel

Pressure — Temperature

Temperature Range: 33°F – 140°F (5°C – 60°C)

Maximum Working Pressure: 175psi (12.06 bars)

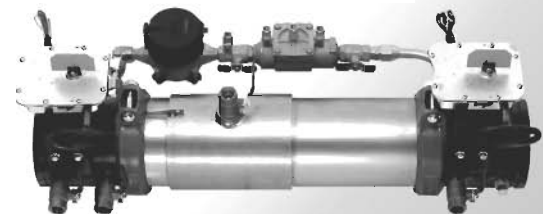
Approvals

ASSE 1048

UL Classified 28S6

FM approved

CSA B64.5



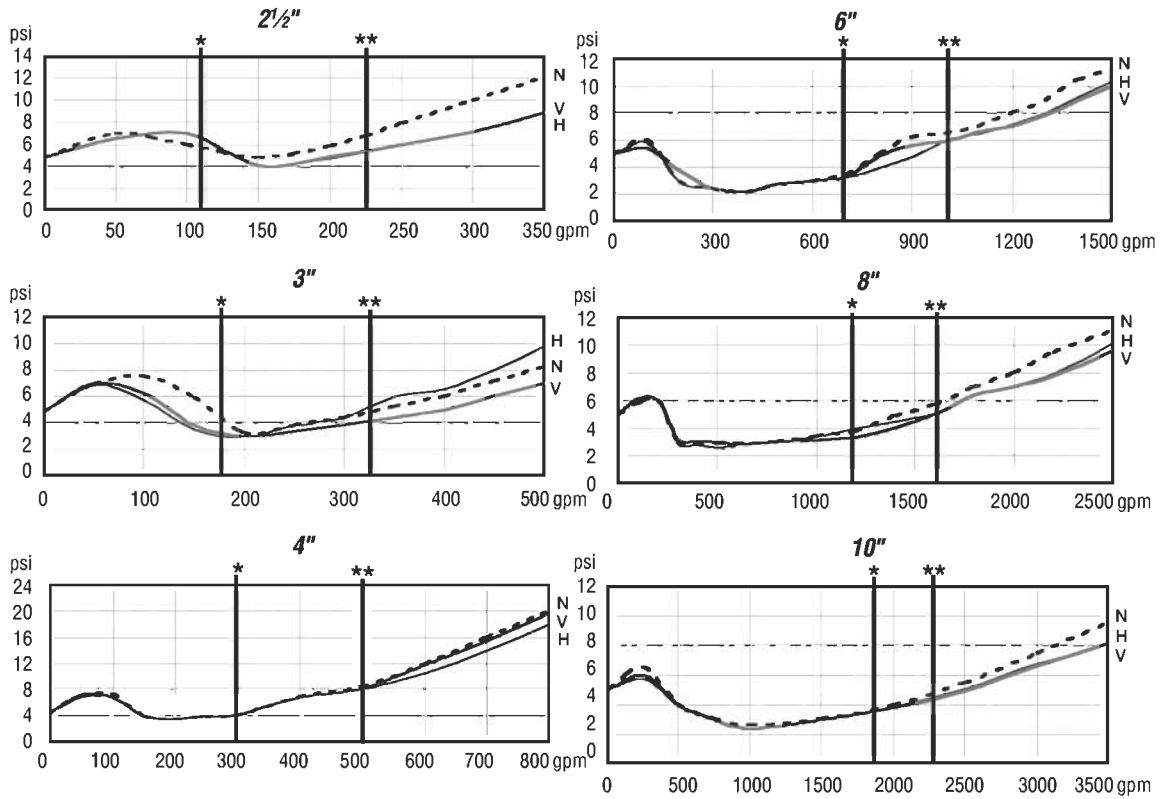
757DCDABFG

* = Rated flow ** = UL Rated flow

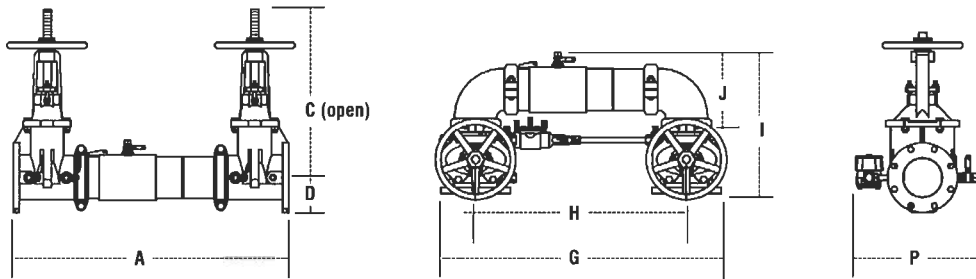
Flow Curves

— Horizontal — Vertical - - - - - N - Pattern

Repair Kits for Model 757 (DCDA) are on Model 757 (DC) Product Page.



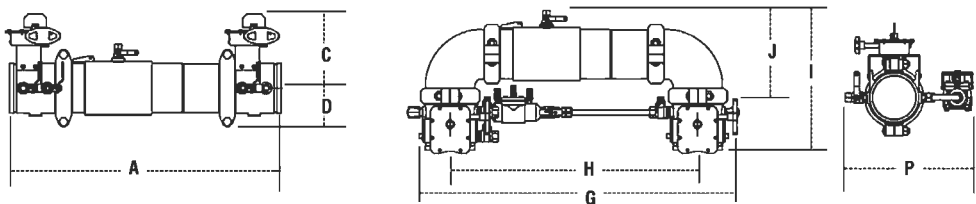
Dimensions — Weight



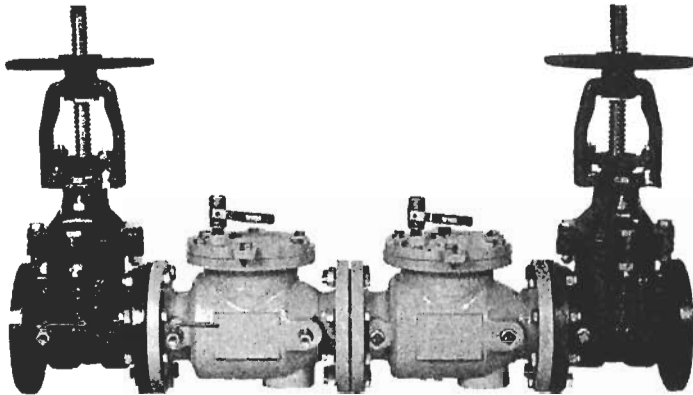
757DCDA / 757NDCDA

SIZE (DN)		DIMENSIONS										WEIGHT									
		A		C (OSY)		D		G		H		I		J		P		757DCDA		757NDCDA	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2 1/2	65	31	787	16 3/8	416	3 1/2	89	29 1/16	738	22	559	15 1/2	393	8 13/16	223	13 3/16	335	139	63	147	67
3	80	31 11/16	805	18 3/8	479	3 11/16	94	30 1/4	768	22 3/4	578	17 1/8	435	9 9/16	233	14 1/2	368	159	72	172	78
4	100	33 11/16	856	22 3/4	578	4	102	33	838	24	610	18 1/2	470	9 5/16	252	15 3/16	386	175	79	198	90
6	150	44	1118	30 1/8	765	5 1/2	140	44 3/4	1137	33 3/4	857	23 3/16	589	13 1/16	332	19	483	309	140	350	159
8	200	50	1270	37 3/4	959	6 11/16	170	54 1/8	1375	40 3/8	1032	27 1/16	697	15 11/16	399	21 3/16	538	494	224	569	258
10	250	57 1/2	1460	45 3/4	1162	8 1/16	208	66	1676	50	1270	32 1/2	826	17 7/16	440	24	610	795	361	965	438

757DCDABFG / 757NDCDABFG



SIZE (DN)		DIMENSIONS										WEIGHT									
		A		C		D		G		H		I		J		P		757DCDABFG		757NDCDABFG	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2 1/2	65	28	711	8	203	3 1/2	89	29 7/8	759	22	559	14 15/16	379	8 13/16	223	13	330	70	32	78	35
3	80	28 1/2	724	8 5/16	211	3 11/16	94	30 11/16	779	22 3/4	578	15 1/16	392	9 9/16	233	13 1/2	343	68	31	81	37
4	100	29 3/16	741	8 5/16	227	3 11/16	94	31 15/16	811	24	610	16 1/4	412	9 15/16	252	14	356	75	34	98	44
6	150	36 1/2	927	10	254	5	127	43 3/16	1097	33 3/4	857	19 11/16	500	13 1/16	332	14 1/2	368	131	59	171	78
8	200	43	1092	12 1/4	311	6 1/2	165	51 1/16	1297	40 3/8	1032	23 3/16	592	15 11/16	399	18 3/16	462	275	125	351	159



Series 770 Double Check Valve Assemblies

Sizes: 4", 6", 8"

FEATURES

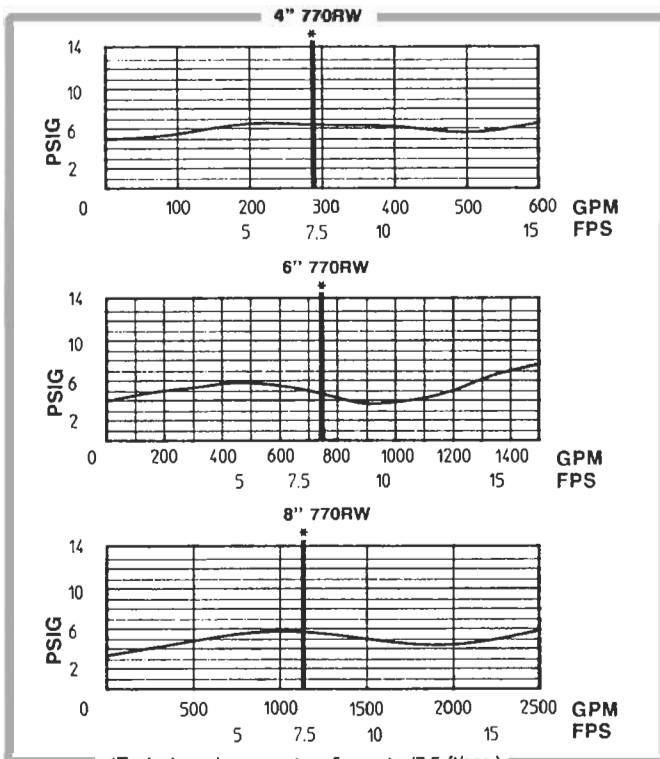
- Removable bronze seats
- Maximum flow at low pressure drop
- Compact for economy combined with performance
- Design simplicity for easy maintenance
- Ductile iron bodies for maximum strength
- Stainless steel internal parts

DESCRIPTION

BACKFLOW PREVENTION FOR LOW HAZARD CROSS CONNECTIONS and CONTAINMENT - Installations with Continuous Pressure

Series 770 features a modular design concept which facilitates complete maintenance and assembly by retaining the spring load. The first and second check modules are interchangeable. Standardly furnished with ball type test cocks and two resilient seated isolation valves. Can be installed horizontally or vertically.

FLOW CURVES



MODELS

Suffix

NRS RW - with resilient seated NRS gates (Standard)

OS&Y RW - with (UL-FM) resilient seated OS&Y gates

QT-FDA - epoxy coated quarter turn ball valves

QT - with quarter turn, resilient seated, ball valves shut-offs

LF - without shut-offs valves

S - with strainer (FDA approved epoxy coating)

MATERIALS

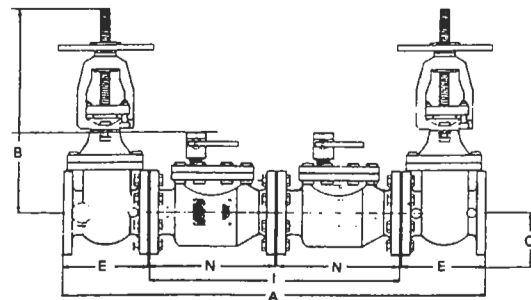
Epoxy coated (FDA approved) ductile iron valve bodies with bronze replaceable seats and stainless steel trim. All sizes furnished with bronze body ball valve test cocks.

Series 770 Double Check Valve Assembly is designed to prevent the reverse flow in water lines and to prevent non-potable water from entering into the safe drinking water system. This series can be applied to a variety of installations where the degree of hazard is considered to be low to intermediate and where approved by the authority having jurisdiction.

PRESSURE - TEMPERATURE

Suitable for supply pressure up to 175 psi and water temperatures to 110°F max.

DIMENSIONS & WEIGHTS



14
Watts
Rainbird

SIZE	A	OS&Y	NRS	C	E	I	N	Weight (lbs)	
		B	B					OS&Y	NRS
4"	47 1/8	23 3/8	15 1/2	4 1/2	9	28 15/16	14 7/8	338	316
6"	58 1/2	30	19 5/8	5 1/2	10 1/2	37 5/16	18 5/8	654	626
8"	70 3/8	40	24	6 3/4	11 1/2	47	23 7/16	1104	1050