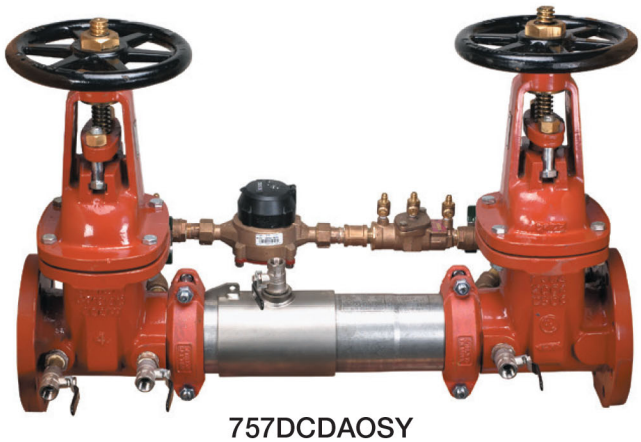
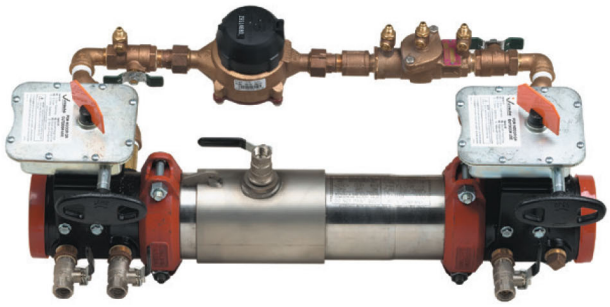
National Fire Equipment Ltd.

Series 757DCDA, 757NDCDA
Double Check Detector Assemblies Sizes: 2½" – 10" (65 – 250mm)

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.



757DCDAOSY



757DCDABFG

757NDCDAOSY

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 Series 757DCDA, 757NDCDA.

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.

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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

*OSY FxG – Flanged inlet gate connection and grooved outlet gate connection

*OSY GxF – Grooved inlet gate connection and flanged outlet gate connection

*OSY GxG – Grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory*
Post indicator plate and operating nut available - consult factory*
*Consult factory for dimensions

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

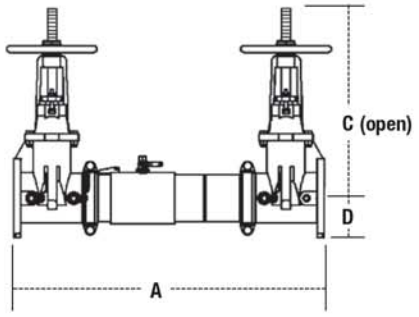
Temperature Range: 33°F – 140°F (0.5°C – 60°C)
Maximum Working Pressure: 175psi (12.1 bar)

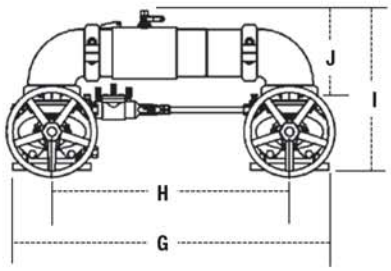
Approvals

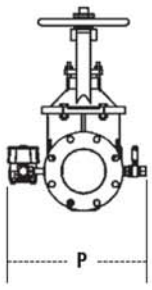
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The Unversity of Southern California (FCCCHR-USC)
- AWWA C551-92

1048 B64.5 (**BFG & OSY Only)

Dimensions — Weight

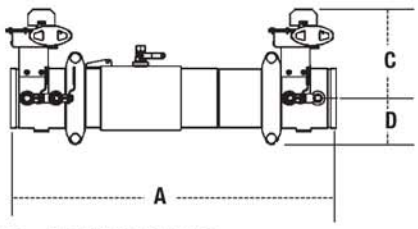


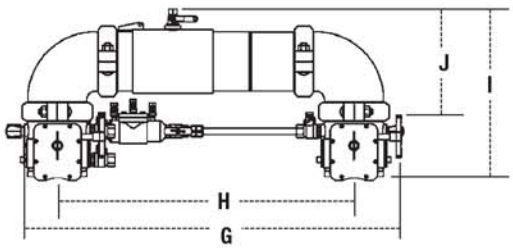


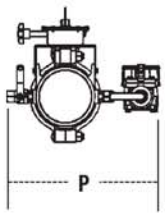


757DCDA , 757NDCDA

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.*
2½	65	30¾	781	16⅜	416	3½	89	29 1/16	738	21½	546	15½	393	8 13/16	223	13⅜	335	139	63	147	67
3	80	31¾	806	18⅞	479	3 11/16	94	30¼	768	22¼	565	17⅛	435	9⅜	233	14½	368	159	72	172	78
4	100	33¾	857	22¾	578	4	102	33	838	23½	597	18½	470	9 15/16	252	15⅜	386	175	79	198	90
6	150	43½	1105	30⅛	765	5½	140	44¾	1137	33¼	845	23 3/16	589	13 1/16	332	19	483	309	140	350	159
8	200	49¾	1264	37¾	959	6 11/16	170	54⅛	1375	40⅛	1019	27 7/16	697	15 11/16	399	21⅜	538	494	224	569	258
10	250	57¾	1467	45¾	1162	8 3/16	208	66	1676	49½	1257	32½	826	17 5/16	440	24	610	795	361	965	438







757DCDABFG , 757NDCDABFG

SIZE (DN)		DIMENSIONS																WEIGHT			
		A		C		D		G		H		I		J		P		757DCDABFG		757NDCDA BFG	
in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kgs.*	*lbs.*	*kgs.*
2½	65	27¾	705	8	203	3½	89	29⅞	759	21½	546	14 15/16	379	8 13/16	223	13	330	70	32	78	35
3	80	28¼	718	8 5/16	211	3 11/16	94	30 11/16	779	22¼	565	15 7/16	392	9⅜	233	13½	343	68	31	81	37
4	100	29	737	8 15/16	227	3 11/16	94	31 15/16	811	23½	597	16¼	412	9 15/16	252	14	356	75	34	98	44
6	150	36½	927	10	254	5	127	43 3/16	1097	33¼	845	19 11/16	500	13 1/16	332	14½	368	131	59	171	78
8	200	42¾	1086	12¼	311	6½	165	51 1/16	1297	40⅛	1019	23 5/16	592	15 11/16	399	18 3/16	462	275	125	351	159

Noryl® is a registered trademark of General Electric Company.

Capacity

Series 757DCDA, 757NDCDA flow curves as tested by Underwriters Laboratory.

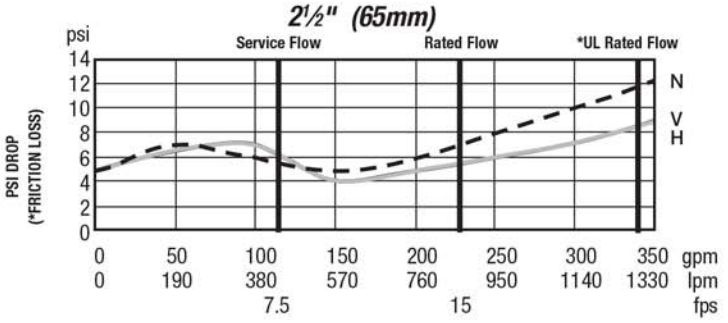
Flow characteristics collected using butterfly shutoff valves

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

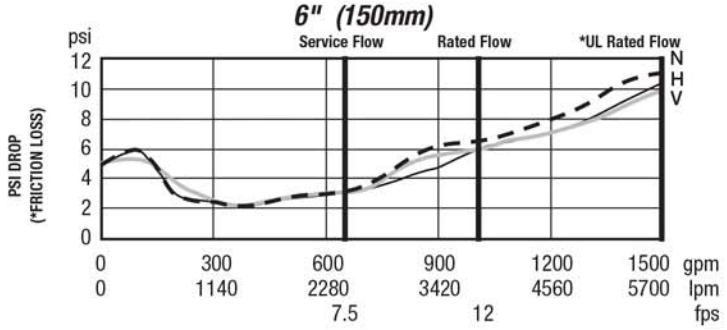
Flow capacity chart identifies valve performance based upon rated water velocity up to 25fps

- Service Flow is typically determined by a rated velocity of 7.5fps based upon schedule 40 pipe.
- Rated Flow identifies maximum continuous duty performance determined by AWWA.
- UL Flow Rate is 150% of Rated Flow and is not recommended for continuous duty.
- AWWA Manual M22 [Appendix C] recommends that the maximum water velocity in services be not more than 10fps.

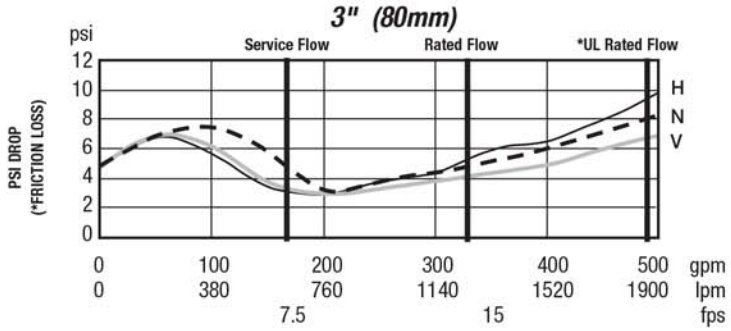
2½" (65mm)



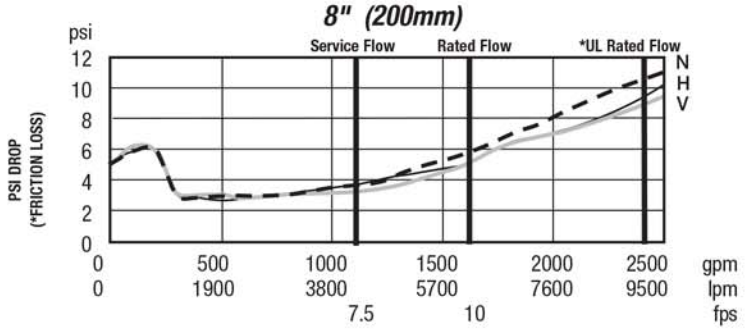
6" (150mm)



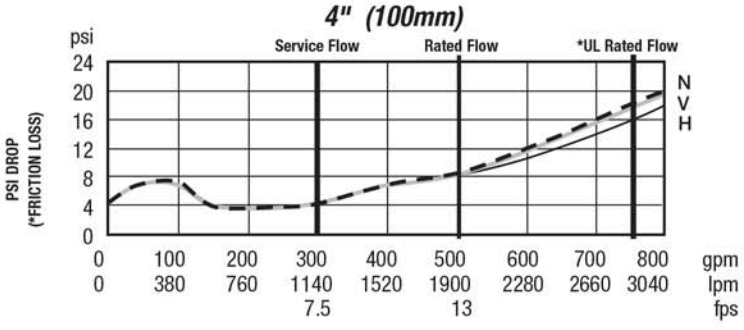
3" (80mm)



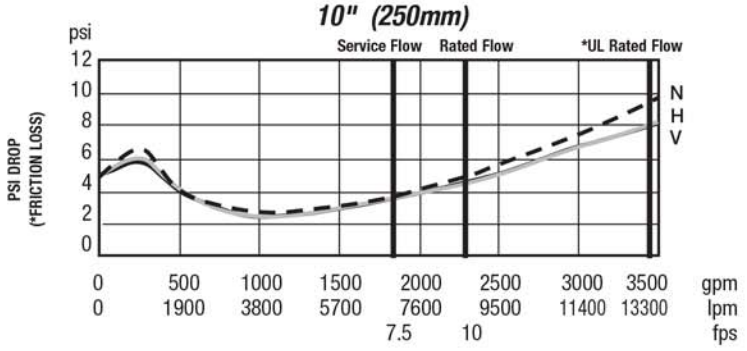
8" (200mm)



4" (100mm)



10" (250mm)



⚠ WARNING

It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States. Before installing standard material product, consult your local water authority, building and plumbing codes.

NOTICE

Inquire with governing authorities for local installation requirements

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