For Non-Health Hazard Applications

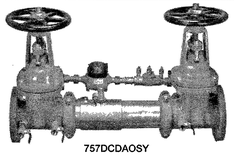
Job Name _____ Contractor _____
Job Location _____ Approval _____
Engineer _____ Contractor's P.O. No. _____
Approval _____ Representative _____

Series 757DCDA, 757NDCDA

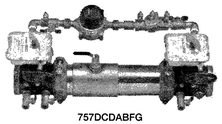
Double Check Detector Assemblies

Sizes: 2½" – 10" (65 – 250mm)

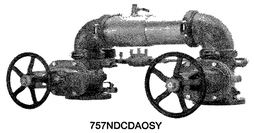
Series 757DCDA, 757NDCDA Double Check Detector Assemblies are used to prevent backflow of non-health hazard pollutants that are objectionable but not toxic, from entering the potable water supply system. The 757DCDA, 757NDCDA may be installed under continuous pressure service and may be subjected to 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.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

WATTS®

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

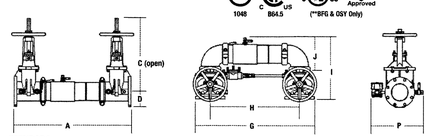
Temperature Range: 33°F – 140°F (0.5°C – 60°C)
Maximum Working Pressure: 175psi (12.1 bar)

Approvals – Standards

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

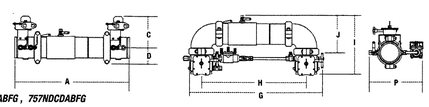
1048 864.5 (**BFG & OSY Only)

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	30¼	781	16⅜	416	3½	89	29 1/16	738	21½	546	15½	393	8 7/16	223	13 5/16	335	139	63	147	67
3	80	31¼	806	18⅛	479	3 7/16	94	30¼	768	22¼	565	17⅛	435	9 5/16	233	14½	368	159	72	172	78
4	100	33¾	857	22⅝	578	4	102	33	838	23½	597	18½	470	9 15/16	252	15 5/16	386	175	79	198	90
6	150	43½	1105	30⅛	765	5½	140	44⅝	1137	33¼	845	23 5/16	589	13 1/16	332	19	483	309	140	350	159
8	200	49¾	1264	37¾	959	6 7/16	170	54⅛	1375	40⅛	1019	27 7/16	697	15 11/16	399	21 5/16	538	494	224	569	258
10	250	57¼	1467	45¾	1162	8 5/16	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	27¼	705	8	203	3½	89	29¾	759	21½	546	14 15/16	379	8 7/16	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	9 5/16	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 5/16	1097	33¼	845	19 11/16	500	13 1/16	332	14½	368	131	59	171	78
8	200	42¾	1088	12¼	311	6½	165	51 1/16	1297	40⅛	1019	23 5/16	592	15 7/16	399	18 1/16	462	275	125	351	159

Noryl® is a registered trademark of General Electric Company.

Smith-Blair
A WATTS PLUS COMPANY

662 - Carbon Flange Tapping Sleeve
663 - Stainless Steel Flange Tapping Sleeve

Stainless Steel Body and Neck
Certified to NSF®/ANSI 61-G

Material Specifications

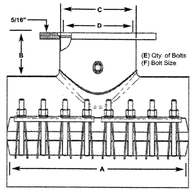
Body: Full circumference band. 18-8 type 304 Stainless Steel.

Flanges: AWWA C207 Class D, ANSI 150# drilling. Recessed for Tapping Valve Per MSS-SP 60. Fusion bonded, Flexi-Coate epoxy coated carbon steel on 662. 18-8 type 304 stainless steel flange on 663. Optional: Other types of Flanges, threaded outlets, MJ Outlets.

Gasket: Nitrile (Buna-N) NSF® 61 compounded to resist water, oil, acids, alkalies, most (aliphatic) hydrocarbon fluids and many chemicals. Temperatures up to 180°F.

Bolts, Nuts & Washers: 18-8 type 304 stainless steel heavy hex nuts, stud bolts & washers. Nuts and studs are coated to prevent galling.

Material specifications are subject to change.



662-663 Tapping Sleeve Specifications

Outlet Size	Nominal Body Size	A (in.)	B (in.)	C (in.)	D (in.)	E	F (in.)
4	4	15	5	5 1/16	4 3/16	8	5/8
	6-18	15	5	5 1/16	4 3/4	8	5/8
	20-24	20	5	5 1/16	4 3/4	15	5/8
6	6	15	5	7 1/16	6 5/16	8	5/8
	8-18	15	5	7 1/16	6 3/4	8	5/8
	20-24	20	5	7 1/16	6 3/4	15	5/8
8	8	20	5	9 1/16	8 3/8	10	5/8
	10-18	20	5	9 1/16	8 3/4	10	5/8
	20-24	25	5	9 1/16	8 3/4	24	5/8
10	10	25	5	11 3/32	10 1/4	16	5/8
	12-18	25	5	11 3/32	10 3/4	16	5/8
	20-24	25	5	11 3/32	10 3/4	24	5/8
12	12	25	5	13 3/32	12 1/4	16	5/8
	14-18	25	5	13 3/32	12 3/4	16	5/8
	20-24	25	5	13 3/32	12 3/4	24	5/8

Optional 316 Stainless Steel.
For MJ Outlets, replace the last 2 "00"s in the middle eight digit s with "MJ". Example: 662-127504MJ-000.

Smith-Blair
A WATTS PLUS COMPANY

662 - Carbon Flange Tapping Sleeve
663 - Stainless Steel Flange Tapping Sleeve

Stainless Steel Body and Neck
Certified to NSF®/ANSI 61-G

Nominal Size of Pipe x Flanged Outlet	O. D. Range (Inches)	662 Flexi-Coat® Epoxy Coated Carbon Steel Flange	663 Stainless Steel Flange	Approx. Weight Each Pounds
		Catalog Number	Catalog Number	
4 x 4	4.46-4.86	662-04800400-200	663-04800400-200	32
4 x 4	4.80-5.10	662-05000400-200	663-05000400-200	34
4 x 4	4.95-5.35	662-05100400-200	663-05100400-200	40
6 x 4	6.59-6.99	662-06630400-000	663-06630400-000	38
6 x 6		662-06630600-200	663-06630600-200	42
6 x 4	6.84-7.30	662-06900400-000	663-06900400-000	38
6 x 6		662-06900600-200	663-06900600-200	42
6 x 4	7.10-7.50	662-07200400-000	663-07200400-000	38
6 x 6		662-07200600-200	663-07200600-200	42
6 x 4	7.40-7.80	662-07450400-000	663-07450400-000	38
6 x 6		662-07450600-200	663-07450600-200	42
8 x 4	7.90-8.30	662-08000400-000	663-08000400-000	43
8 x 6		662-08000600-000	663-08000600-000	63
8 x 4	8.62-9.06	662-08630400-000	663-08630400-000	43
8 x 6		662-08630600-000	663-08630600-000	47
8 x 8		662-08630800-200	663-08630800-200	63
8 x 4	8.99-9.45	662-09050400-000	663-09050400-000	43
8 x 6		662-09050600-000	663-09050600-000	47
8 x 8		662-09050800-200	663-09050800-200	63
8 x 4	9.20-9.60	662-09450400-000	663-09450400-000	43
8 x 6		662-09450600-000	663-09450600-000	47
8 x 8		662-09450800-200	663-09450800-200	63
8 x 4	9.60-10.00	662-09650400-000	663-09650400-000	43
8 x 6		662-09650600-000	663-09650600-000	47
8 x 8		662-09650800-200	663-09650800-200	63
10 x 4	9.90-10.30	662-10000400-000	663-10000400-000	47
10 x 6		662-10000600-000	663-10000600-000	51
10 x 8		662-10000800-000	663-10000800-000	70
10 x 4	10.73-11.13	662-10750400-000	663-10750400-000	47
10 x 6		662-10750600-000	663-10750600-000	51
10 x 8		662-10750800-000	663-10750800-000	70
10 x 10		662-10751000-200	663-10751000-200	75
10 x 4	11.05-11.45	662-11100400-000	663-11100400-000	47
10 x 6		662-11100600-000	663-11100600-000	51
10 x 8		662-11100800-000	663-11100800-000	70
10 x 10		662-11101000-200	663-11101000-200	75
10 x 4	11.70-12.10	662-11750400-000	663-11750400-000	47
10 x 6		662-11750600-000	663-11750600-000	51
10 x 8		662-11750800-000	663-11750800-000	70
10 x 10		662-11751000-200	663-11751000-200	75
10 x 4	12.00-12.40	662-12000400-000	663-12000400-000	47
10 x 6		662-12000600-000	663-12000600-000	51
10 x 8		662-12000800-000	663-12000800-000	70
10 x 10		662-12001000-200	663-12001000-200	75

For MJ Outlets, replace the last 2 "00"s in the middle eight digit s with "MJ". Example: 662-127504MJ-000.

REVISIONS:

	REVISION ISSUE	DATED
1		

ACE Design LLC
6283 Dean Martin Drive, Suite B
LAS VEGAS, NEVADA 89118
Phone: [702] 396-5114, Fax: [702]446-8155
Land Planning • Civil Engineering • Architectural Design • Structural Engineering

TITLE: WATER AND SEWER DETAILS

PROJECT: GURUDWARA BABA DEEP SINGH JI
6341 W. LONE MOUNTAIN
LAS VEGAS, NEVADA 89130
APN # 138-02-501-002

PROFESSIONAL ENGINEER - STATE OF NEVADA
JASPAL SIDHU
EXP. DATE 06/30/2017
CIVIL
No. 13796

DATE: 06/30/2016
JOB:
DWG BY: OS
CHK BY: JS

C6

6 OF 7

107V6664 H# 62055