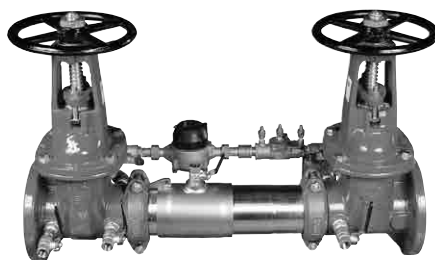


Series LF757DCDA / 757DCDA / 757NDCDA / LF757NDCDA

Double Check Detector Assemblies

Sizes: 2½" – 10" (65 – 250mm)



LF757DCDA



757NDCDAOSY

Features

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

Pressure-Temperature

Temperature Range: 33°F – 140°F
(0.5°C – 60°C)

Maximum Working Pressure: 175psi
(12.1 bar)

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

LF757DCDA / LFN757DCDA

LEAD FREE

Series LF757DCDA 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 LF757DCDA may be installed under continuous pressure service and may be subjected to backpressure and backsiphonage. Series LF757DCDA is used primarily on fire line sprinkler systems when it is necessary to monitor unauthorized use of water.

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

Approvals



*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

757DCDA/757NDCDA

For Use in Non-Potable Applications

Series 757DCDA, 757NDCDA Double Check Detector Assemblies are designed to prevent backflow on non-health hazard pollutants that are objectionable but not toxic to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

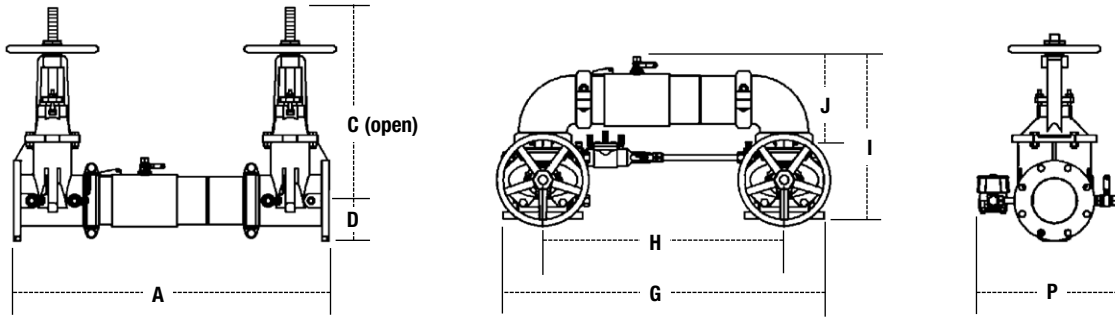
Materials

- 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

Approvals

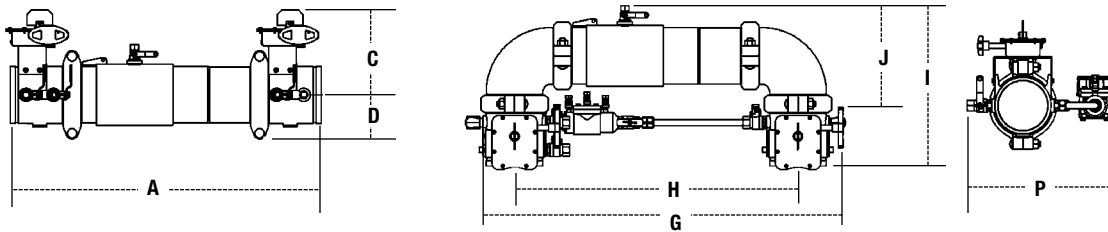


Dimensions – Weights



LF757DCDA, LF757NDCDA / 757DCDA, 757NDCDA

SIZE	DIMENSIONS														WEIGHT					
	A		C (OSY)		D		G		H		I		J		P		757DCDA/ LF757DCDA		757NDCDA/ LF757DCDA	
<i>in.</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>	<i>lbs.</i>	<i>kgs.</i>
2½	31	787	16¾	416	3½	89	29⅞	738	21½	546	15½	393	8⅜	223	13¾	335	139	63	147	67
3	31⅞	805	18⅞	479	3⅞	94	30¼	768	22¼	565	17⅞	435	9⅞	233	14½	368	159	72	172	78
4	33½	851	22¾	578	4	102	33	838	23½	597	18½	470	9⅞	252	15⅞	386	175	79	198	90
6	44	1118	30⅞	765	5½	140	44¾	1137	33¾	857	23⅞	589	13⅞	332	19	483	309	140	350	159
8	50	1270	37¾	959	6⅞	170	54⅞	1375	40⅞	1032	27⅞	697	15⅞	399	21⅞	538	494	224	569	258
10	57½	1461	45¾	1162	8⅞	208	66	1676	50	1270	32½	826	17⅞	440	24	610	795	361	965	438



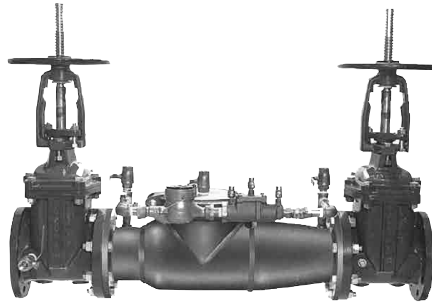
LF757DCDABFG, LF757NDCDABFG / 757DCDABFG, 757NDCDABFG

SIZE	DIMENSIONS														WEIGHT					
	A		C		D		G		H		I		J		P		757DCDABFG/ LF757DCDABFG		757NDCDA BFG/ LF757NDCDA BFG	
<i>in.</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>	<i>lbs.</i>	<i>kgs.</i>
2½	27½	698	8	203	3½	89	29⅞	759	21½	546	14⅞	379	8⅜	223	13	330	70	32	78	35
3	28	711	8⅞	211	3⅞	94	30⅞	779	22¼	565	15⅞	392	9⅞	233	13½	343	68	31	81	37
4	28¾	730	8⅞	227	3⅞	94	31⅞	811	23½	597	16¼	412	9⅞	252	14	356	75	34	98	44
6	37	940	10	254	5	127	43⅞	1097	33¾	857	19⅞	500	13⅞	332	14½	368	131	59	171	78
8	43½	1105	12¼	311	6½	165	51⅞	1297	40⅞	1032	23⅞	592	15⅞	399	18⅞	462	275	125	351	159

Series 774DCDA

Double Check Detector Assemblies

Sizes: 2½" – 12" (65 – 300mm)



774DCDA0SY

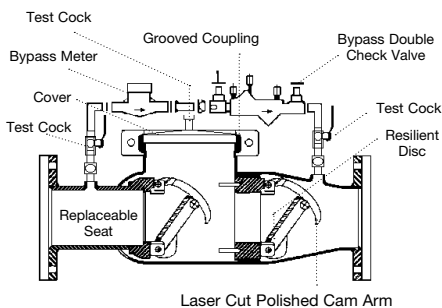
Features

- Torsion spring check valve provides low head loss
- Short lay length is ideally suited for retrofit installations
- Stainless steel body is half the weight of competitive designs reducing installation and shipping cost
- Stainless steel construction provides long term corrosion protection and maximum strength
- Single top access cover with two-bolt grooved style coupling for ease of maintenance
- Thermoplastic and stainless steel check valves for trouble-free operation
- No special tools required for servicing
- Compact construction allows for smaller vaults and enclosures
- Furnished with 5/8" x 3/4" bronze meter (gpm or cfm)
- Detects underground leaks and unauthorized water use
- May be installed horizontal or vertical "flow up" position

Pressure-Temperature

Temperature Range: 33°F – 110°F
(0.5°C – 43°C) continuous

Pressure Range: 175psi
(12.1 bar)



774DCDA

Series 774DCDA Double Check Detector Assemblies are designed to protect drinking water supplies from non-health hazard dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

Materials

- All internal metal parts: 300 Series stainless steel
- Main valve body: 300 Series stainless steel
- Check assembly: Noryl® Flange dimensions in accordance with AWWA Class D.

Models

Suffix:

LF – without shutoff valves

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

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

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

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

CFM – cubic feet per minute meter

GPM – gallons per minute meter

Available with grooved NRS gate valves - consult factory*

Post indicator plate and operating nut available - consult factory*

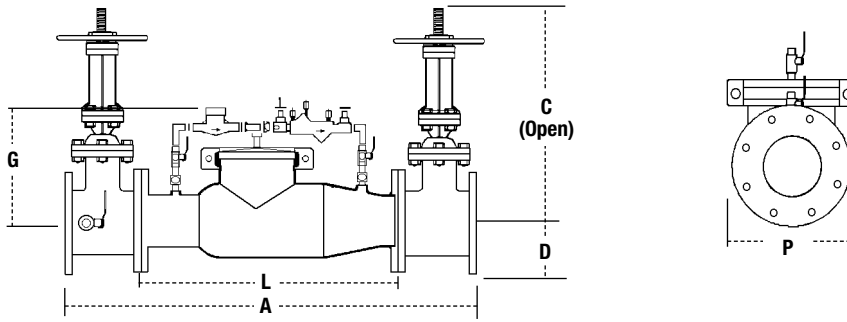
*Consult factory for dimensions

Approvals



(2½" - 10" only)

Dimensions – Weights



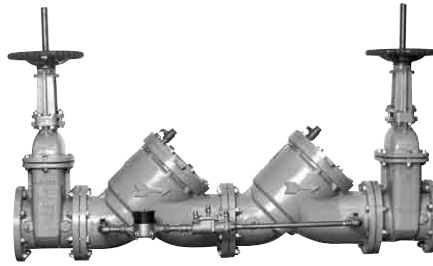
774DCDA

SIZE	DIMENSIONS										WEIGHT					
	A		C (OSY)		D		G		L		P		w/Gates		w/o Gates	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	38	965	16¾	416	3½	89	10	250	22	559	12½	318	155	70	68	31
3	38	965	18⅞	479	3¾	95	10	250	22	559	13	330	230	104	70	32
4	40	1016	22¾	578	4½	114	10	250	22	559	14½	368	240	109	73	33
6	48½	1232	30⅞	765	5½	140	15	381	27½	699	15½	394	390	177	120	54
8	52½	1334	37¾	959	6¾	171	15	381	29½	749	18¼	464	572	259	180	82
10	55½	1410	45¾	1162	8	200	15	381	29½	749	19½	495	774	351	190	86
12	57½	1461	53⅞	1349	9½	241	15	381	29½	749	21	533	1044	474	220	100

Series 709DCDA

Double Check Detector Assemblies

Sizes: 3" – 10" (80 – 250mm)



709DCDA0SY

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
- Furnished with 5/8" x 3/4" bronze meter
- No special tools required for servicing

Pressure-Temperature

Temperature Range: 33°F – 110°F
(0.5°C – 43°C) continuous
Maximum Working Pressure: 175psi
(12.1 bar)

709DCDA

Series 709DCDA Double Check Detector Assemblies are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

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. All sizes are standardly equipped with resilient seated OSY shutoff valves, 5/8" x 3/4" meter and ball type test cocks.

Materials

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

Models

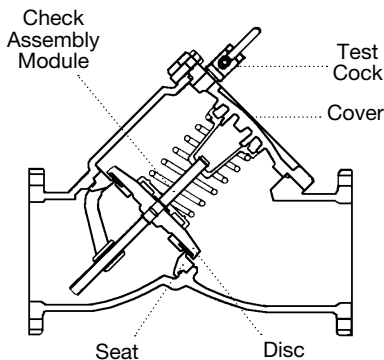
Suffix:

- 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

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".



Series 007DCDA

Double Check Detector Assemblies

Sizes: 2½" – 3" (65 – 80mm)



007DCDA

Features

- Fused epoxy coated cast iron unibody 2½" – 3"
- Replaceable seats
- Maximum flow at low pressure drop
- Compact for ease of installation
- Design simplicity for easy maintenance
- No special tools required for servicing
- Bronze body ball valve test cocks
- Modular spring loaded checks
- Furnished with bronze 5/8" x 3/4" meter

Pressure-Temperature

Temperature Range: 33°F – 110°F
(0.5°C – 43°C) continuous
Maximum Working Pressure: 175psi
(12.1 bar)

007DCDA

Series 007DCDA Double Check Detector Assemblies are designed exclusively for use in accordance with water utility authority on non-health hazard 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 underground leaks 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. All sizes are standardly equipped with resilient seated OSY shutoff valves, 5/8" x 3/4" meter.

Materials

- Body: Epoxy coated cast iron
- Seats: Bronze or Stainless steel
- Discs: Silicone
- Springs: Stainless steel
- Meter: Bronze

Models

Suffix:

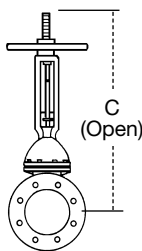
- CFM - cubic feet per minute meter
- GPM - gallons per minute meter

Approvals

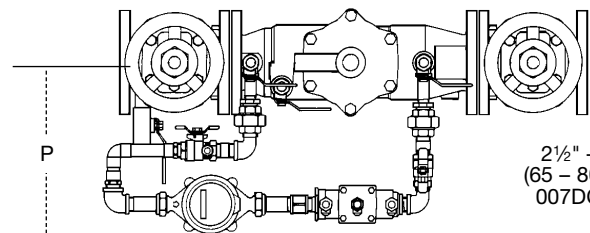
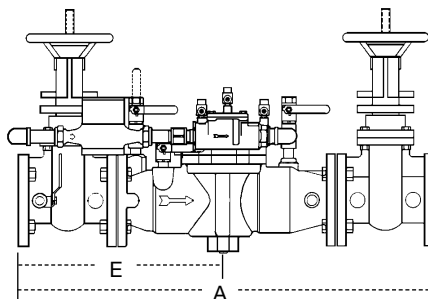


Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California. 2½" 007DCDA approved for horizontal and vertical upward flow position. 3" 007DCDA approved for horizontal only.

Dimensions – Weights



007DCDA



2½" – 3"
(65 – 80mm)
007DCDA

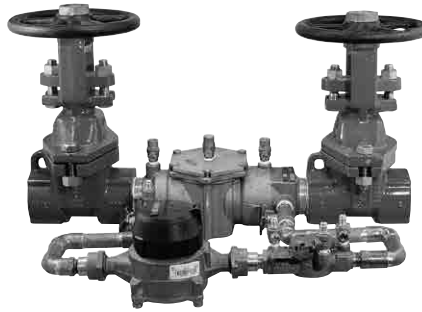
SIZE	DIMENSIONS						WEIGHT			
	A		C		E		P			
in.	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
2½	33¼	845	16¾	416	16¾	416	12 ⁵ / ₁₆	313	164	74
3	34¼	870	18 ⁵ / ₈	479	16¾	422	12 ⁵ / ₁₆	313	196	89

Series 007M1DCDA

Residential Fire Sprinkler

Double Check Detector Backflow Prevention Assembly

Sizes: 2" (50mm)



007M1DCDA-OSY-GPM

Features

Main Valve

- Compact Design for Ease of Installation
- Inline Serviceable Assembly
- No Special Tools Required for Servicing
- Captured Modular Spring Loaded Checks
- Field Replaceable Seats & Discs
- Field Replaceable Auxiliary Bypass Line & Components

Auxiliary Bypass

- Compact Bypass Design; Remains within Main Valve Assembly Profile
- Inline Serviceable 1/2" Backflow Assembly
- No Special Tools Required for Servicing
- Captured Modular Spring Loaded Checks
- Field Replaceable Seats & Discs
- Detect Potential Underground Water Leaks
- Detect Unauthorized Water Usage

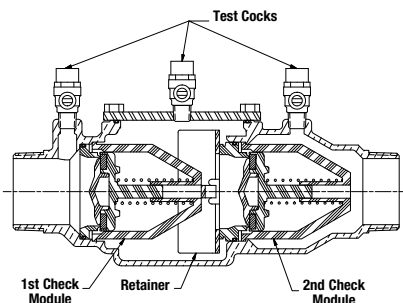
Pressure Specification

- Max. Working Pressure: 175psi
- Min. Working Pressure: 10psi
- Hydrostatic Test Pressure: 350psi
- Hydrostatic Safety Pressure Rating: 700psi

Temperature Specifications

- Continuous Operating Range: 33°F-110°F (0.5°C-43°C)
- Intermittent Operating Range up to 140°F (60°C)

Must not exceed 12 hour duration



007M1DCDA

The Model 007M1DCDA Double Check Detector Assembly is designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing. Protects against backpressure and back siphonage (i.e. pollutants) in non-health hazard applications in accordance with local governing water utility code.

Materials

- Body: Cast Bronze ASTM B584
- Elastomers: Silicone
- O-Rings: EPDM
- Check Modules: Engineered Plastics

Configurable Options

(Prefix – Suffix)

Suffix

OSY – UL/FM Approved OS&Y Gate Valves (ANSI/AWWA C515 Compliant)

CFM – Cubic Feet per Minute 5/8"x3/4" Water Meter (ANSI/AWWA C700 Compliant)

GPM – Gallon per Minute 5/8"x3/4" Water Meter (ANSI/AWWA C700 Compliant)

LF – Less Shutoff valves; This is **NOT** an APPROVED ASSEMBLY

Approvals



1048



(OSY only)



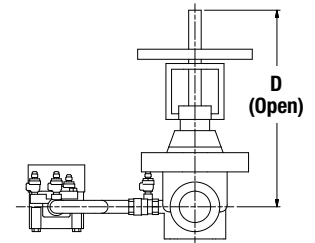
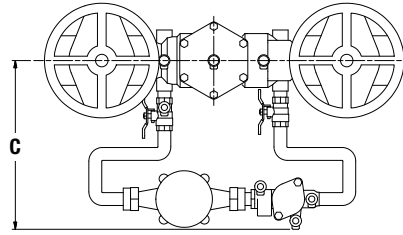
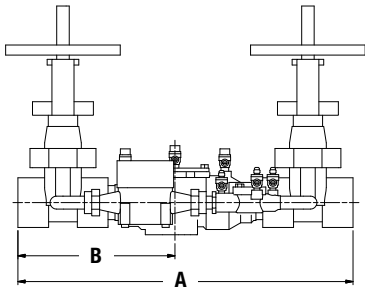
Approved



c

Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC)
ASSE 1048 Listed
UL Classified (US & Canada)
FM Approved
IAPMO/cUPC
AWWA Standard C510 Compliant
NFPA 13, 14, 15, 16, 20, 22 & 24 Compliant
End Connections OS&Y Gate Valves – Compliant to ASME B16.1 Class 125 & AWWA Class D Flange

Dimensions — Weights



007M1DCDA

MODEL	SIZE	DIMENSIONS								WEIGHT	
		A		B		C		D		lbs.	kgs.
	in.	in.	mm	in.	mm	in.	mm	in.	mm		
007M1DCDA-OSY	2	22 ⁵ / ₈	575	10 ⁹ / ₁₆	268	11 ³ / ₁₆	300	13 ¹ / ₂	343	85	38.6