

Series 007DCDA

Double Check Detector Assembly

Sizes: 2" – 3" (50 – 80mm)

- Installation
- Service
- Repair Kits
- Maintenance

For field testing procedure, send for IS-TK-DL, IS-TK-9A, IS-TK-99E AND IS-TK-99D.

For other repair kits and service parts, send for PL-RP-BPD.



Water Specialties
Company



007DCDA Size: 2½" (65mm)

CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.watts.com/prop65

IMPORTANT: Inquire with governing authorities for local installation requirements.

NOTE: For Australia and New Zealand: Pipeline strainers should be installed between the upstream shutoff valve and the inlet of the backflow preventer.

It's important that this assembly be tested periodically in compliance with local codes, but at least once per year or more as service conditions warrant. If installed on a fire sprinkler system, all mechanical checks, such as alarm checks and backflow preventers, should be flow tested and inspected internally in accordance with NFPA 13 and NFPA 25.

Limited Warranty: Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

THE WARRANTY SET FORTH HEREIN IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY THE COMPANY WITH RESPECT TO THE PRODUCT. THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE COMPANY HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product. Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights. **SO FAR AS IS CONSISTENT WITH APPLICABLE STATE LAW, ANY IMPLIED WARRANTIES THAT MAY NOT BE DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL SHIPMENT.**



Installation Instructions

2" - 3" 007DCDA (50 – 80mm)

Indoors – Figure 1

Watts Series 007DCDA may be installed in either a vertical or horizontal position. Pipe lines should be thoroughly flushed to remove foreign material before installing the unit. A strainer should be installed as shown, ahead of backflow preventer to prevent disc from unnecessary fouling. Install valve in the line with arrow on valve body pointing in the direction of flow.

For indoor installations, it is important that the valve be easily accessible to facilitate testing and servicing. Do not install in a concealed location.

CAUTION: Do not install with strainer when backflow preventer is used on seldom-used water lines which are called upon during emergencies, such as fire sprinkler lines, etc.

It is important that Series 007DCDA be tested periodically in compliance with local codes, but at least once a year or more often depending upon system conditions.

Note: Fire Protection System Installations

The National Fire Protection Agency (NFPA) Guidelines require a confirming flow test to be conducted whenever a "main line" valve such as the shutoff valves or a backflow assembly have been operated. Certified testers of backflow assemblies must conduct this test. The trim valves of the detector meter bypass line, on assemblies so equipped, should be shut off during the confirming flow test. When the test is completed, the trim valves must be returned to a fully open position.

Outside – Figure 2

In an area where freezing conditions **do not occur**, Series 007DCDA can be installed outside of a building. The most satisfactory installation is above ground and should be installed in this manner whenever possible.

In an area where freezing conditions **can occur**, Series 007DCDA should be installed above ground in an insulated enclosure.

Annual inspection of all water system safety and control valves is required and necessary. Regular inspection, testing and cleaning assures maximum life and proper product function.

Parallel – Figure 3

Two or more Series 007DCDA smaller size valves may be piped in parallel (where approved) to serve a larger supply pipe main.

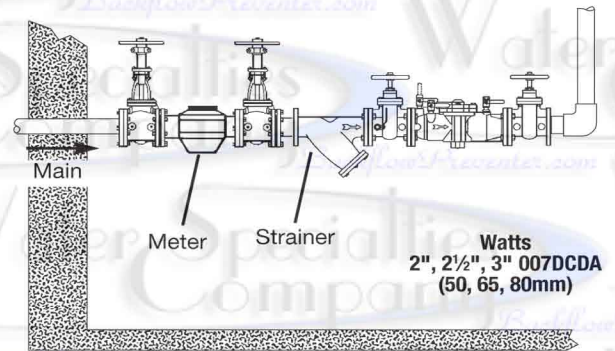
This type of installation is employed whenever it is vital to maintain a continuous supply of water/where interruptions for testing and servicing would be unacceptable. It also has the advantage of providing increased capacity where needed beyond that provided by a single valve and permits testing or servicing of an individual valve without shutting down the complete line. For two valve installations the total capacity should equal or exceed that required by the system.

The quantity of valves used in parallel should be determined by the engineer's judgement based on the operating conditions of a specific installation. (See literature F-FC regarding flow curves.)

Installation Note:

The flange gasket bolts for the gate valves should be retightened during installation as the bolts may have loosened due to storage and shipping.

Figure 1



Vertical Flow Up

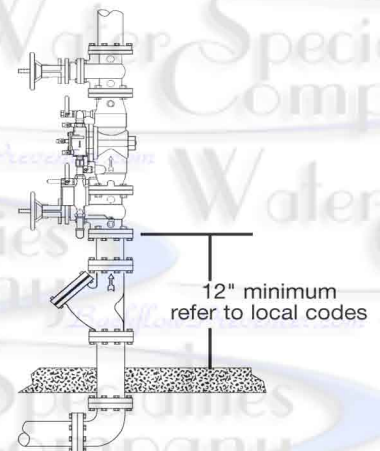
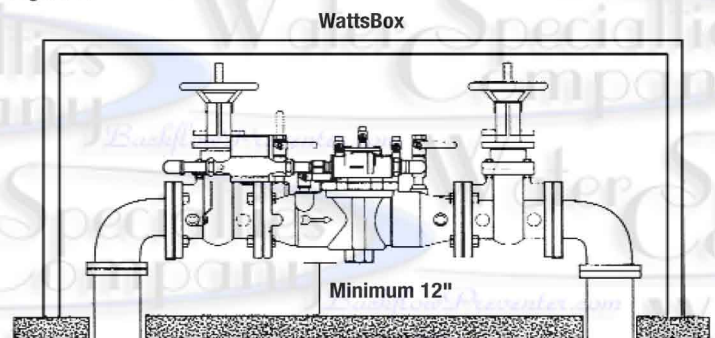
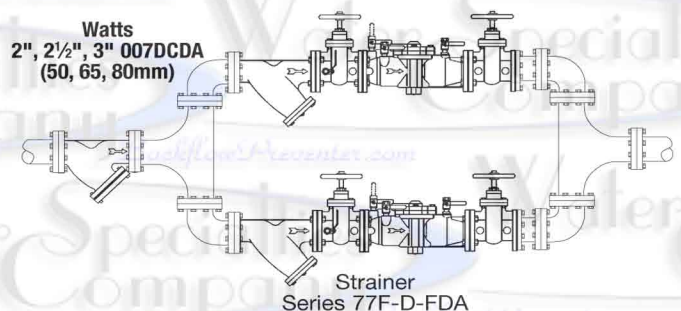


Figure 2



Now available, WattsBox Insulated Enclosures,
for more information, send for literature ES-WB.

Figure 3



Servicing First and Second Check Valves

2" – 3" 007DCDA (50 – 80mm)

1. Remove cover bolts and cover.
2. Remove the retainer from the body bore. The check valve modules can now be removed from the valve by hand or with a screwdriver.
3. The check seats are attached to the cage with a bayonet type locking arrangement. Holding the cage in one hand, push the seat inward and rotate counterclockwise against the cage. The seat, spring cage, spring and disc assembly are now individual components.
4. The disc assembly may now be cleaned and reassembled or depending on its condition, may be discarded and replaced with a new assembly from the repair kit. O-rings should be cleaned or replaced as necessary. For more information, refer to repair parts price list PL-RP-BPD.
5. Reassemble the Check valve modules. Check modules are installed in the valve body with the seats facing the valve inlet. The modules must be securely in place before the retainer can be replaced.

NOTE: No special tools required to service Series 007DCDA.

Replacement Parts — 2", 2½", 3" (50, 65, 80mm) 007DCDA

When ordering, specify Ordering Code, Kit number and Valve Size.

EDP NO	KIT NO.	SIZE	
		in.	mm
First Check Kit			
0887980	RK 007DCDA CK1	2"	50
0887965	RK 007DCDA CK1	2½", 3"	65, 80

Kit consists of: Seat, Seat O-ring, Disc assembly, Spring, Spring retainer, Check Cage and Cover O-ring.

Second Check Kit			
0887981	RK 007DCDA CK2	2"	50
0887966	RK 007DCDA CK2	2½", 3"	65, 80

Kit consists of: Seat, Seat O-ring, Disc assembly, spring, Spring retainer, Check cage and Cover O-ring.

First and Second Check Rubber Parts			
0887982	RK 007DCDA RT	2"	50
0887967	RK 007DCDA RT	2½", 3"	65, 80

Kit consists of: Two seat discs, Two seat O-rings, One Cover O-ring.

Cover Kit			
0887983	RK 007DCDA C	2"	50
0887980	RK 007DCDA C	2½", 3"	65, 80

Kit consists of: Cover, Cover O-ring.

Seat Kit			
0887984	RK 007DCDA S1	2"	50
0887985	RK 007DCDA S2	2"	50
0887968	RK 007DCDA S1	2½", 3"	65, 80
0887969	RK 007DCDA S2	2½", 3"	65, 80

Kit consists of: Seat, Seat O-ring.

Use only original equipment manufactured parts to protect the validated warranty.

