

# Series 007

## Double Check Valve Assembly

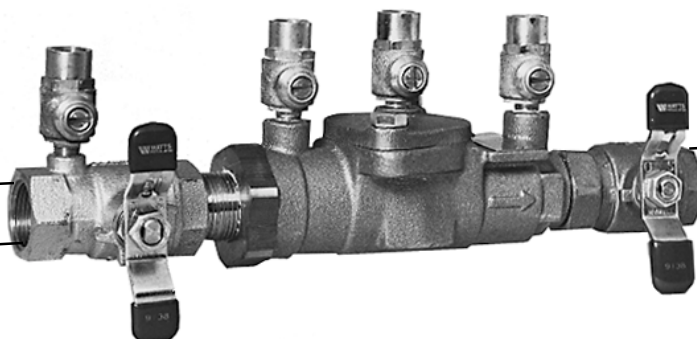
Sizes: 1/2" through 3"

- Installation
- Service
- Repair Kits
- Maintenance

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

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

For technical assistance, contact your local Watts representative on back page.



Watts 007M2QT Size: 3/4"

### 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. (Installer: California law requires that this warning be given to the consumer.)

**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.



**LIMITED WARRANTY:** Watts Regulator Company warrants each product against defects in material and workmanship 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. This shall constitute the exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental or consequential damages, including without limitation, damages or other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemicals, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product. THE COMPANY MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED EXCEPT AS PROVIDED IN THIS LIMITED WARRANTY.

# Installation Instructions

## *Installation - Indoors, Figure 1*

### WATTS Series 007 Double Check Valve

Check local codes for installation requirements. 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.

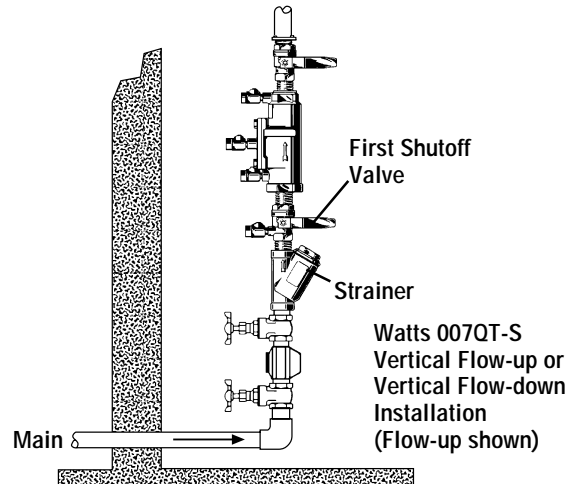
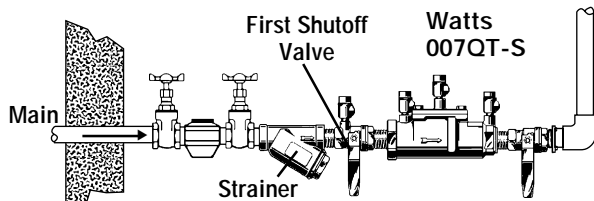
For indoor installations, it is important that the valve be easily accessible to facilitate testing and servicing. Do not install in a concealed location.

**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 007 be tested periodically in compliance with local codes, but at least once a year or more often depending upon system conditions. Regular inspection, testing and cleaning assures maximum life and proper product function.

### 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 shut-off valves or a backflow assembly have been operated. Certified testers of backflow assemblies must conduct this test. The trim valves of the confirming flow test. When the test is completed the trim valves must be returned to a fully open position.

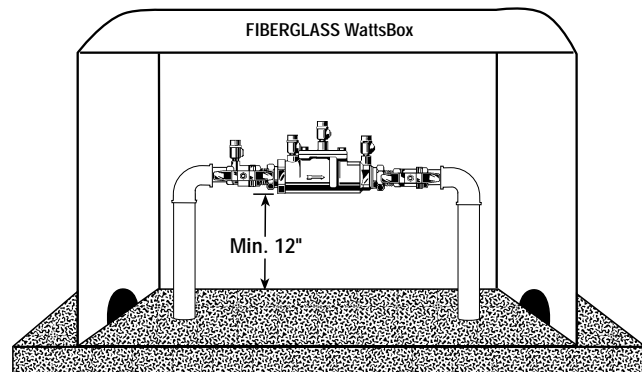
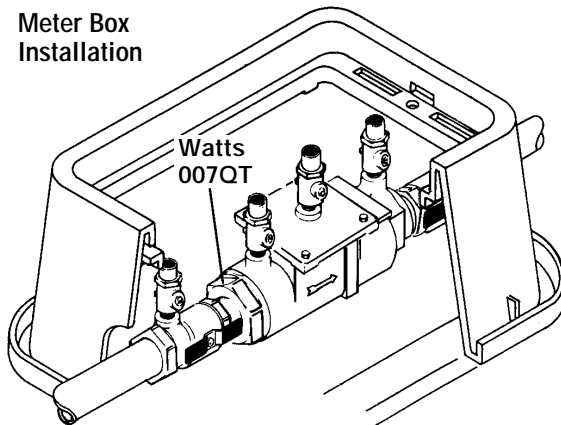


## *Installation - Outside*

Figure 2

CONSULT LOCAL  
CODES FOR APPROVAL

### Meter Box Installation



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for more information, send for ES-WB or ES-WB-T.*

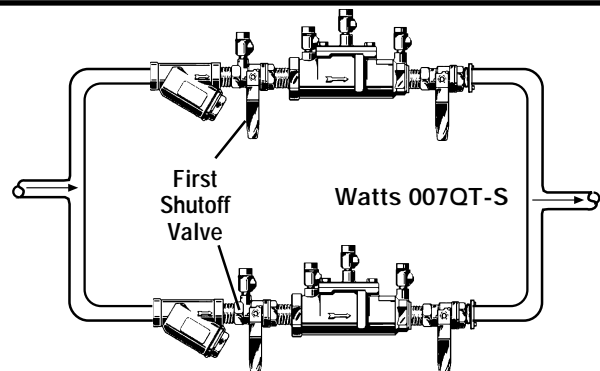
## *Installation - Parallel*

Figure 3

CONSULT LOCAL  
CODES FOR APPROVAL

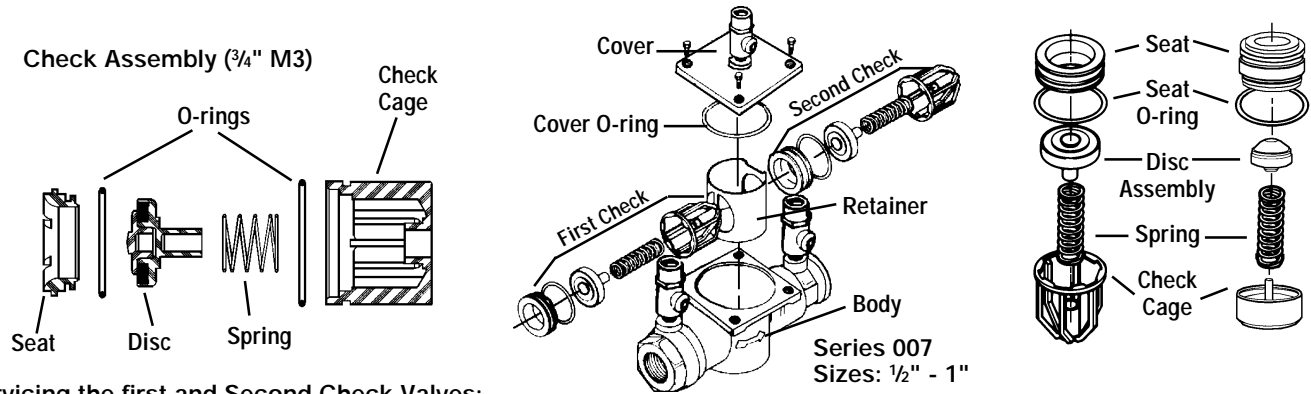
Two or more Series 007 smaller size valves may be piped in parallel (where approved) to serve a larger supply pipe main. This type of installation is employed whenever it is vital to maintain a continuous supply of water/where interruptions for testing and servicing would be unacceptable. It also has 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 of the devices 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.



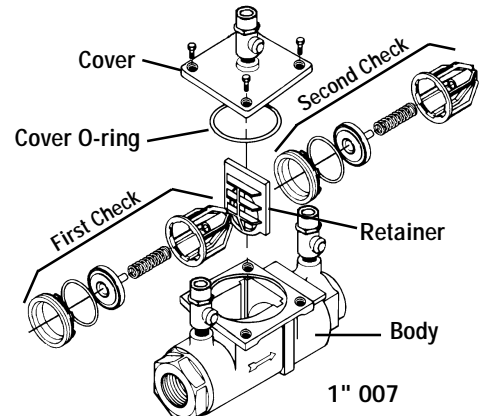
# Service, Replacement Parts and Maintenance

(Before servicing be certain water is turned off or shut-off valves are closed)



## Servicing the first and Second Check Valves:

1. After removing the cover, remove the retainer for the body bore. The check valve modules can now be removed from the valve by hand or with a screwdriver. **Note:** For Series 007 sizes  $\frac{1}{2}$ " - 2", the seats and springs of the first and second check modules are **not** interchangeable. The heavier spring and smaller diameter seat belong with the first check module. Series 007M1 sizes  $\frac{3}{4}$ " - 1" and Series 007M2  $\frac{3}{4}$ " have interchangeable seats and springs.
2. 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 clockwise against the cage, for  $\frac{3}{4}$ " Series 007M2 pull apart seat and cage. The seat, cage, spring and disc assembly are now individual components.
3. The disc assembly may now be cleaned and reassembled or, depending on its condition, it may be discarded and replace with a new assembly from the repair kit. O-rings should be cleaned or replaced as necessary.
4. Reassemble the check valve module in the reverse order. 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. On the  $\frac{3}{4}$ " - 1" size, this retainer may have to be tilted slightly into place. Replace cover.



## $\frac{1}{2}$ " - 2" Replacement Parts

When ordering, specify Ordering Code Number, Kit Number and Valve Size

### Check Kits: 1st or 2nd Check

EDP No.	Kit No.	Size
887193	RK 007 CK4	$\frac{1}{2}$ "
887026	RK 007M1 CK4	$\frac{3}{4}$ " - 1"
887377	*RK SS007 CK4	$\frac{1}{2}$ "
888070	*RK SS007M3 CK1	$\frac{1}{2}$ " - $\frac{3}{4}$ "
888071	*RK SS007M3 CK2	$\frac{1}{2}$ " - $\frac{3}{4}$ "
887393	*RK SS007M2 CK1	$\frac{3}{4}$ "
887397	*RK SS007M2 CK2	$\frac{3}{4}$ "
887373	*RK SS007M1 CK4	1"

\*SS prefix denotes stainless steel body

### 1st Check

887023	RK 007 CK1	$\frac{3}{4}$ " - 1"
887045	RK 007M2 CK1	$\frac{3}{4}$ "
888550	RK 007M3 CK1	$\frac{3}{4}$ "
887025	RK 007 CK1	$1\frac{1}{2}$ " - 2"
887186	RK 007M1 CK1	$1\frac{1}{2}$ " - 2"
887719	RK 007M2 CK1	$1\frac{1}{4}$ " - $1\frac{1}{2}$ "

### 2nd Check

887024	RK 007 CK2	$\frac{3}{4}$ " - 1"
887046	RK 007M2 CK2	$\frac{3}{4}$ "
888551	RK 007M3 CK2	$\frac{3}{4}$ "
887028	RK 007 CK2	$1\frac{1}{2}$ " - 2"
887187	RK 007M1 CK2	$1\frac{1}{2}$ " - 2"
887720	RK 007M2 CK2	$1\frac{1}{4}$ " - $1\frac{1}{2}$ "

### Stainless Steel 1st or 2nd Check

887022	RK 007 CK1 SS	$\frac{3}{4}$ " - 1"
887030	RK 007 CK2 SS	$\frac{3}{4}$ " - 1"
887032	RK 007M1 CK4 SS	$\frac{3}{4}$ " - 1"
887031	RK 007 CK1 SS	$1\frac{1}{2}$ " - 2"
887035	RK 007 CK2 SS	$1\frac{1}{2}$ " - 2"
887189	RK 007M1 CK1 SS	$1\frac{1}{2}$ " - 2"
887190	RK 007M1 CK2 SS	$1\frac{1}{2}$ " - 2"

Kit includes: Seat, Seat o-ring, Disc assembly, Spring, Check cage, Cover o-ring.

### Cover Kit

EDP No.	Kit No.	Size
887195	RK 007 C	$\frac{1}{2}$ "
887036	RK 007 C	$\frac{3}{4}$ " - 1"
887038	RK 007M1 C	$\frac{3}{4}$ " - 1"
887039	RK 007M2 C	$\frac{3}{4}$ "
888553	RK 007M3 C	$\frac{3}{4}$ "
887037	RK 007 C	$1\frac{1}{2}$ " - 2"
887191	RK 007M1 C	$1\frac{1}{2}$ " - 2"
887722	RK 007M2 C	$1\frac{1}{4}$ " - $1\frac{1}{2}$ "
887379	*RK SS007 C	$\frac{1}{2}$ "
887380	*RK SS007M2 C	$\frac{3}{4}$ "
888073	*RK SS007M3 C	$\frac{1}{2}$ " - $\frac{3}{4}$ "
887381	*RK SS007M1 C	1"

Kit includes: Cover and Cover o-ring \*SS prefix denotes stainless steel body

### Complete Rubber Parts

887194	RK 007 RT	$\frac{1}{2}$ "
887040	RK 007 RT	$\frac{3}{4}$ " - 1"
887042	RK 007M1 RT	$\frac{3}{4}$ " - 1"
887043	RK 007M2 RT	$\frac{3}{4}$ "
888552	RK 007M3 RT	$\frac{3}{4}$ "
887041	RK 007 RT	$1\frac{1}{2}$ " - 2"
887188	RK 007M1 RT	$1\frac{1}{2}$ " - 2"
887721	RK 007M2 RT	$1\frac{1}{4}$ " - $1\frac{1}{2}$ "
887378	*RK SS007 RT	$\frac{1}{2}$ "
887394	*RK SS007M2 RT	$\frac{3}{4}$ "
888072	*RK SS007M3 RT	$\frac{1}{2}$ " - $\frac{3}{4}$ "
887374	*RK SS007M1 RT	1"

Kit includes: Cover o-ring, Two seat discs and Two seat o-rings.

\*SS prefix denotes stainless steel body

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.

# Installation Instructions - 2½" - 3" 007

Watts Series 007 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.

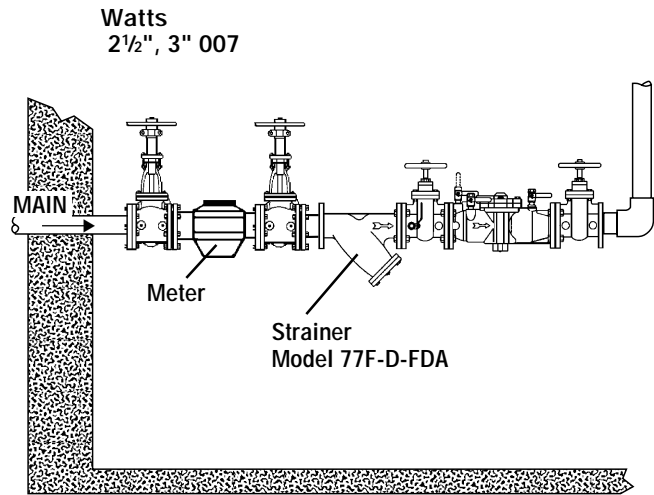
**CAUTION:** Do not install with strainer when backflow preventer is used on seldom-used water lines which are called upon during emergencies, such as fire sprinkler lines, etc.

It is important that Series 007 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.

## Installation - Indoors - Figure 1

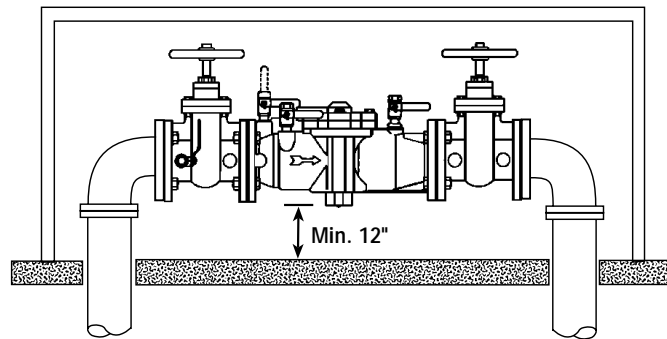


## Installation - Outside Building Above Ground - Figure 2

In an area where freezing conditions **do not occur**, Series 007 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 007 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.



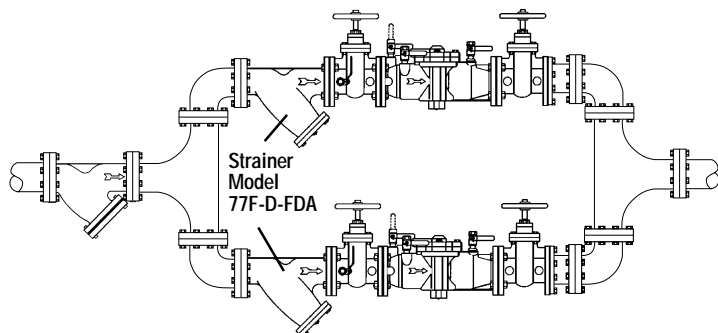
Now available, WattsBox Insulated Enclosures, for more information, send for ES-WB or ES-WB-T.

## Installation Parallel - Figure 3 - Consult Local codes for Approval

Two or more Series 007 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 increase 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 F-FC regarding flow curves)

Watts  
2½", 3" 007



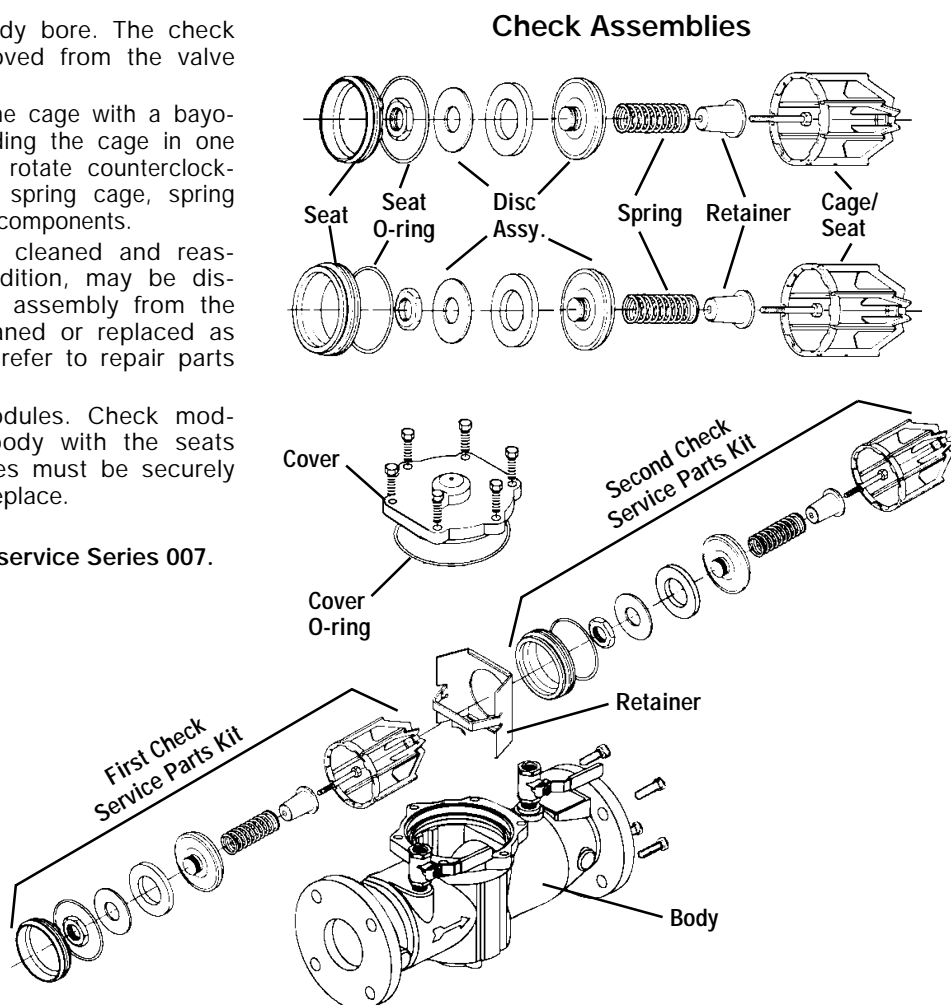
### Installation Note:

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

# Servicing First and Second Check Valves - 2½" - 3" 007

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 reassemble 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 replace.

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



## Replacement Parts for 2½" and 3" 007

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

### First Check Kit

EDP No	Kit No.	Size
887285	RK 007 CK1	2½", 3"

Kit includes: Seat, Seat o-ring, Disc assembly, Spring, Spring retainer, Check Cage and Cover o-ring.

### Second Check Kit

EDP No	Kit No.	Size
887286	RK 007 CK2	2½", 3"

Kit includes: Seat, Seat o-ring, Disc assembly, spring, Spring retainer, Check cage and Cover o-ring.

### First and Second Check Rubber Parts

EDP No	Kit No.	Size
887287	RK 007 RT	2½", 3"

Kit includes; Two seat discs, Two seat o-rings, Two Cover o-rings.

### Cover Kit

EDP No.	Kit No.	Size
887288	RK 007 C	2½", 3"

Kit includes: Cover, Cover o-ring.

### Seat Kit

EDP No	Kit No.	Size
887289	RK 007 S	2½", 3"

Kit includes: Seat, Seat o-ring.

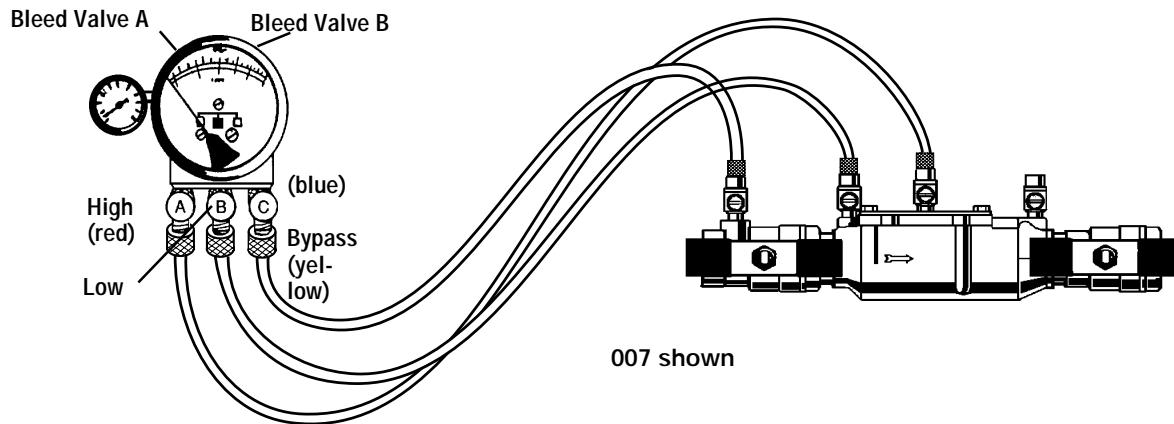
"Use only original equipment manufactured parts to protect the validated warranty."

# Test Procedure for Double Check Valve Assembly

A. Before starting test, all needle valves and bleed valves on test kit must be closed.

B. Flush test cocks before test.

**NOTE:** Supply pressure gauge reading will decrease when performing this test procedure.



## Test No. 1 - Check Valve No. 1

**NOTE:** Close all needle valve "A", "B" and "C" and bleed valve "A" and "B" on test kit.

**Step 1** Insure shutoff No. 1 is open, shutoff No. 2 is closed.

**Step 2** Install high side hose between connection "A" high side and test cock No. 3, low side hose between "B" low side and test cock No. 2 and open both test cock No. 2 and 3.

**Step 3** Open bleed valve "A" to bleed air from the high side. Close "A" then open bleed valve "B" to bleed low side. Close "B".

**Step 4** Connect bypass hose between connection "C" bypass and loosely to test cock No. 1. Open needle valves "A" high side and "C" bypass to vent air from bypass hose. Tighten bypass hose at test cock No. 1, open test cock No. 1.

**Step 5** Close shutoff No. 1. Slowly open bleed "B" until differential gauge rises to 2 PSI and close. If the differential reading does not decrease, record check valve as "tight".

**Step 6** Close all test cocks and open bleed valves "A" and "B". Then close needle valves "A", "B" and "C" and bleed valves "A" and "B". Remove hoses from test cocks.

## Test No. 2 - Check Valve No. 2

**Step 7** Move the high side hose to test cock No. 4, low side hose to test cock No. 3 and open both test cock No. 3 and 4. Remove bypass hose from test cock No. 1, open shutoff valve No. 1.

**Step 8** Open bleed valve "A" to bleed air from the high side. Close bleed "A" then open bleed "B" to bleed low side. Close bleed "B".

**Step 9** Connect bypass hose loosely to test cock No. 1. Open needle valves "A" high side and "C" bypass to vent air from the bypass hose. Tighten bypass hose at test cock No. 1, open test cock No. 1.

**Step 10** Close shutoff No. 1, then slowly open bleed "B" until differential gauge rises to 2 PSI and close. If the differential reading does not decrease, record check as tight. Close all test cocks and remove hoses. Open bleed valves "A" and "B". Restore valve to original working condition.

**NOTE:** The assembly will fail both the first and second check valve tests above, if shutoff No. 2 leaks excessively. To test for a leaky No. 2 shutoff, use the following procedure.

## Test for Leaky No. 2 Shutoff

**Step 11** Connect the high side hose to test cock No. 1, low side hose to test cock No. 4. Open test cocks No. 1 and 4. Close shutoffs No. 1 and 2.

**Step 12** Close needle valve "C" bypass. Open needle valve "A" high side, then open needle valve "B" low side one turn, loosen hose at test cock No. 4 to remove air. Retighten hose.

**Step 13** If the differential gauge rises above 0 there is excessive leakage at shutoff No. 2 and it must be replaced to test the assembly.

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# Watts Backflow Preventer Test Kits

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## No. TK-DL

### Test Kit for Backflow Prevention Products

TK-DL has Digital Print-Out and Computer Download. An advanced piece of test equipment designed to make pressure and differential gauges obsolete in the testing of backflow preventers.

- Accuracy
- Versatility
- Readability
- Portability
- Documentation

Test kit contains hoses, adapters, digital printout unit with complete instructions in rugged case.

*For additional information, send for F-TKDL.*



## No. TK-99E

### Backflow Preventer Test Kit

The Watts TK-99E has been designed for simplified operator operation and rugged reliability in a compact package. Offering the latest in gauge technology, the Watts TK-99E provides dependable accuracy when testing pressure vacuum breakers, reduced pressure backflow preventers or double check assemblies.

- A large 4.5" anti-parallax dial which indicates descending measurement, accurate to  $\pm 1\%$  of full scale.
- Complete kit contains gauge with color-coded valves and hoses, hose adapters, shock cord for easy mounting, supply pressure gauge. All contained in a durable carrying case with room for tools.

*For additional information, send for S-TK-99E.*



## No. TK-9A

### Backflow Preventer Test Kit

Entry level test kit designed to test pressure vacuum breakers, reduced pressure backflow preventers, or double check assemblies. Accuracy to  $\pm 2\%$  of full scale.

Max. pressure 175 psi.

Max. temperature 210°F.

Test kit contains: gauge, test valves, hoses, adapters, securing strap, instruction guide and lightweight case.

*For additional information, send for S-FT-TK9A.*



## No. TK-7

### Backflow Preventer Test Kit

Tests the individual check modules of the Watts No. 7 Residential Dual Check. Also used to test Series 709, 770 and 007 double check valve assemblies.

*For additional information, send for IS-TK7.*



## No. TK-99D

### Backflow Preventer Test Kit

Hand held digital test kit designed to test PVB's, SVB's, DCVA's, DCDA's, RP's and RPDA's

*For additional information, send for S-TK-99D.*

# For Technical Assistance Call Your Authorized Watts Agent.

			Telephone #	Fax #
	<b>HEADQUARTERS:</b> Watts Regulator Company	815 Chestnut St., North Andover, MA 01845-6098 U.S.A.	978 688-1811	978 794-1848
<b>North East</b>	Vernon Biltzer Associates, Inc.	138 Railroad Dr., Northhampton Ind. Pk., Ivyland, PA 18974	215 953-1400	215 953-1250
	E. W. Leonard, Inc.	Ray Palmer Rd., P.O. Box 371, Moodus, CT 06469	860 873-8691	860 873-8693
	Edwards, Platt & Deely, Inc.	271 Royal Ave., Hawthorne, NJ 07506	973 427-2898	973 427-4246
	Edwards, Platt & Deely, Inc.	368 Wyandanch Ave., North Babylon, NY 11703	631 253-0600	631 253-0303
	J. B. O'Connor Company, Inc.	P.O. Box 12927, Pittsburgh, PA 15241	724 745-5300	724 745-7420
	The Joyce Agency, Inc.	8442 Alban Rd., Springfield, NY 22150	703 866-3111	703 866-2332
	W. P. Haney Co., Inc.	51 Norfolk Ave., South Easton, MA 02375	508 238-2030	508 238-8353
	WMS Sales, Inc. (Main office)	9580 County Rd., Clarence Center, NY 14032	716 741-9575	716 741-4810
	WMS Sales, Inc.	47 Carousel Lane, Baldwinville, NY 13027	315 635-6596	315 635-6891
	WMS Sales, Inc.	18 McMillen Place, Delmar, NY 12054	518 475-1017	518 475-9583
	WMS Sales, Inc.	56 Winchester Dr., Fairport, NY 14450	716 223-7980	716 223-7980
<b>South East</b>	Billingsley & Associates, Inc.	5609-D Salmen St., Harahan, LA 70123	504 733-7624	504 733-6904
	Billingsley & Associates, Inc.	478 Cheyenne Lane, Madison, MS 39110	601 856-7565	601 856-8390
	Francisco J. Ortiz & Co., Inc.	Charlyn Industrial Pk., Road 190 KM1.9 - Lot #8, Carolina, Puerto Rico 00983	787 769-0085	787 750-5120
	Mid-America Marketing, Inc.	2776 B.M. Montgomery St., Birmingham, AL 35209	205 879-3469	205 870-5027
	Mid-America Marketing, Inc.	1364 Foster Avenue, Nashville, TN 37210	615 259-9944	615 259-5111
	Mid-America Marketing, Inc.	5466 Old Hwy. 78, Memphis, TN 38118	901 795-0045	901 795-0394
	RMI	Glenfield Bus. Ctr., 2535 Mechanicsville Tpk., Richmond, VA 23223	804 643-7355	804 643-7380
	Smith & Stevenson Co., Inc.	4935 Chastain Ave., Charlotte, NC 28217	704 525-3388	704 525-6749
	Spotswood Associates, Inc.	6235 Atlantic Blvd., Norcross, GA 30071	770 447-1227	770 263-6899
	Spotswood Associates, Inc.	P.O. Box 9346, Savannah, GA 31412	912 691-5759	912 691-2244
<b>South Central</b>	Target Marketing Enterprises, Inc.	118 West Grant St., Building M, Orlando, FL 32806	407 245-7838	407 245-7833
	Hugh M. Cunningham, Inc.	13755 Benchmark, Dallas, TX 75234	972 888-3800	972 888-3838
	Hugh M. Cunningham, Inc.	475 West 38th St, Houston, TX 77018	713 695-0495	713 692-8991
	Mack McClain & Associates	5030 Northrup Ave., St. Louis, MO 63110	314 771-3699	314 771-3535
	Mack McClain & Associates, Inc.	1537 Ohio St., Des Moines, IA 50314	515 288-0184	515 288-5049
	Mack McClain & Associates, Inc.	15090 West 116th St., Olathe, KS 66062	913 339-6677	913 339-9518
	Pro-Spec, Inc.	P.O. Box 472226, Tulsa, OK 74147-2226	918 461-0066	918 461-0105
	Associated Independent Marketing	1606 Commerce Dr., Sun Prairie, WI 53590	608 837-5005	608 837-2368
	Dave Watson Associates	1325 West Beecher, Adrian, MI 49221	517 263-8988	517 263-2328
	Disney-McLane, Inc.	428 McGregor, Cincinnati, OH 45206	513 861-1682	513 487-5337
<b>North Central</b>	Mid-Continent Marketing Services Ltd.	1724 Armitage Ct., Addison, IL 60101	630 953-1211	630 953-1067
	Marketing Affiliates	107 Cypress St. SW, Reynoldsburg, OH 43068	740 927-6880	740 927-4545
	Marketing Affiliates	4920 Commerce Parkway, Warrensville Hts., OH 44128	740 927-6880	740 927-4545
	Delco Sales, Inc.	2267 Yates Ave., Los Angeles, CA 90040	323 890-9250	323 724-5227
	Phoenix Marketing, Ltd.	3322 Columbia Dr. N.E., Albuquerque, NM 87107	505 883-7100	505 883-7101
	P I R Sales, Inc.	3050 North San Marcos Place, Chandler, AZ 85225	480 892-6000	480 892-6096
	R. C. Hartnett & Associates	30852 Huntwood Ave., Hayward, CA 94544	510 471-7200	510 471-4441
	Delco Sales, Inc.	111 Sand Island Access Rd., Unit I-10, Honolulu, HI 96819	808 842-7900	808 842-9265
	Fanning & Associates, Inc.	6765 Franklin St., Denver, CO 80229-7111	303 289-4191	303 286-9069
	Hollabaugh Brothers & Associates	1260 6th Ave. South, Seattle, WA 98134-1308	206 467-0346	206 467-8368
<b>South West</b>	Hollabaugh Brothers & Associates	3028 S.E. 17th Ave., Portland, OR 97202	503 238-0313	503 235-2824
	R. E. Fitzpatrick Sales, Inc.	16 East 8th Ave., Midvale, UT 84047	801 566-7156	801 566-4979
	Soderholm & Associates, Inc.	7150 143rd Ave. N.W., Anoka, MN 55303	612 427-9635	612 427-5665
	Delco Sales, Inc.	111 Sand Island Access Rd., Unit I-10, Honolulu, HI 96819	808 842-7900	808 842-9265
	Fanning & Associates, Inc.	6765 Franklin St., Denver, CO 80229-7111	303 289-4191	303 286-9069
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