

**"ATTN. INSTALLER:** After installation, please leave this instruction sheet for occupant's information."

**IMPORTANT:** Inquire with governing authorities for local installation requirements.

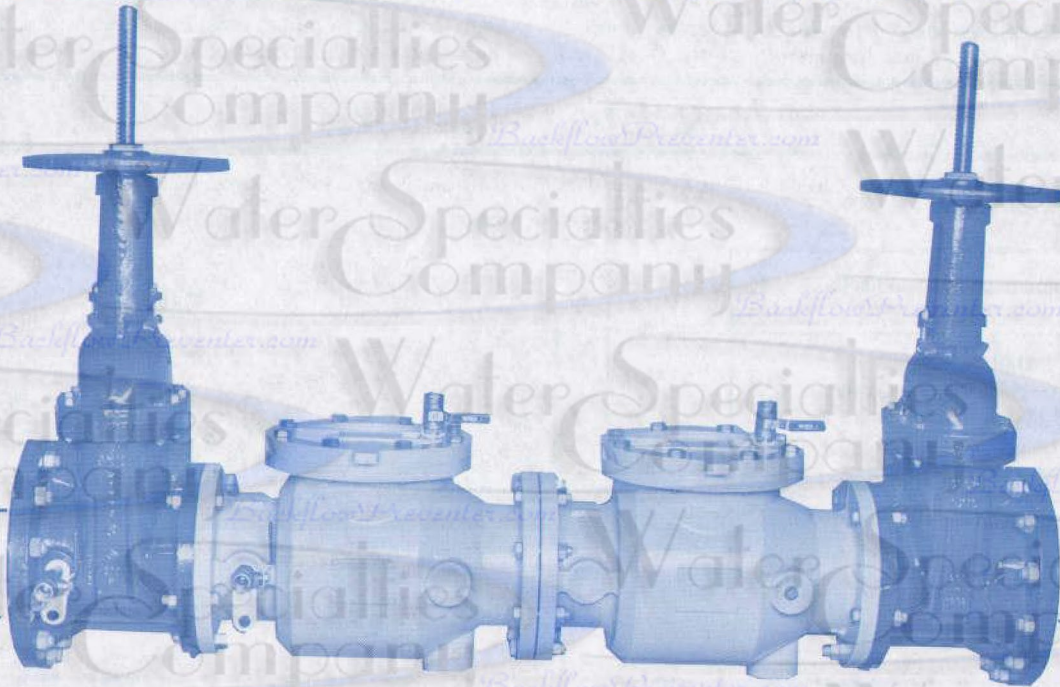
**NOTE:** For Australia and New Zealand, line strainers should be installed between the upstream shutoff valve and the inlet of the backflow preventer.

# Series 772/772DCDA

RP/IS-772/772DCDA

Double Check Valve Backflow Preventer      Double Check Detector Assembly

**Sizes: 4", 6", 8", 10"**



**Watts 10" 772 OSY RW shown  
Toggle Linkage Patent# 5176172**

- Installation
- Service
- Repair Kits
- Maintenance

**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.**

#### CONSUMER WARNING

The State of California has enacted a law known as Proposition 65 which requires consumer notification when there is a possibility of exposure to certain chemicals that affect health. Specifically, lead is present in brass and bronze plumbing fittings and in some of the solder used to install copper pipes. You may be exposed to minute quantities of this chemical through the normal use of your plumbing system.

**WARNING:** This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

For field testing procedure, send for IS-TK-DP and IS-TK-9A, TK99E, TKDL.

For troubleshooting guide, send for S-TSG.

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

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# Basic Installation Instructions

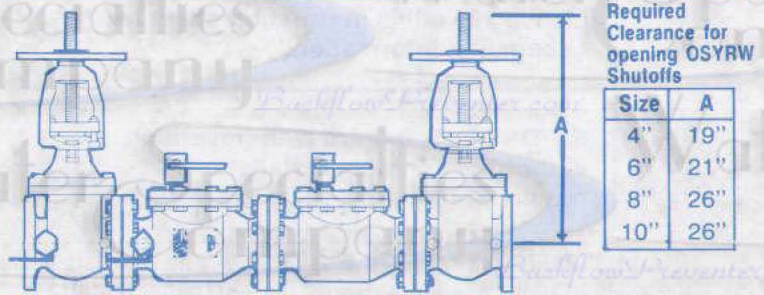
## WATTS Series 772 Double Check Valve

Check with local authorities for installation requirements. Install valve in the line with arrow on valve body pointing in the direction of flow.

They should always be installed in an accessible location to facilitate testing and servicing.

Pipe lines should be thoroughly flushed to remove foreign material before installing the unit. A strainer should be installed as shown, ahead of backflow preventers to prevent discs from unnecessary fouling.

**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 772 be tested periodically in compliance with local codes, but at least once a year or more often, depending upon system conditions.

## Installation - Indoors, Figure 1

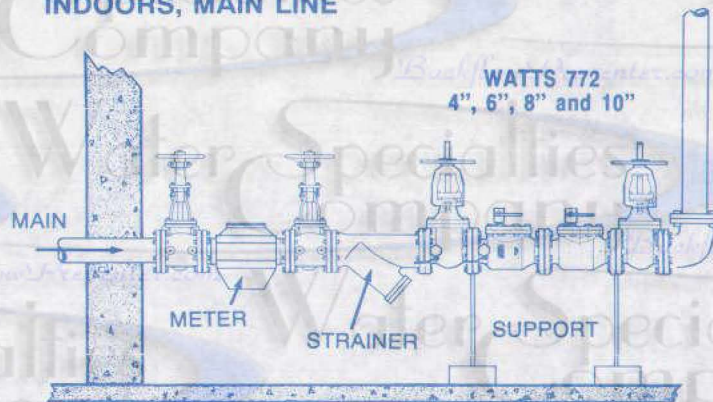
For indoor installations, it is important that the assembly be easily accessible to facilitate testing and servicing.

### INDOORS, MAIN LINE

Use only original equipment manufactured parts to protect the validated warranty

#### Installation Note:

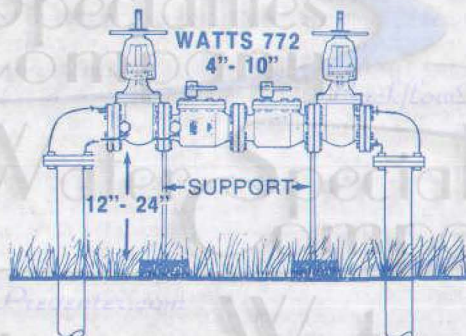
The flange gasket bolts for the gate valves should be retightened during installation as the bolts may have loosened due to storage and shipping.



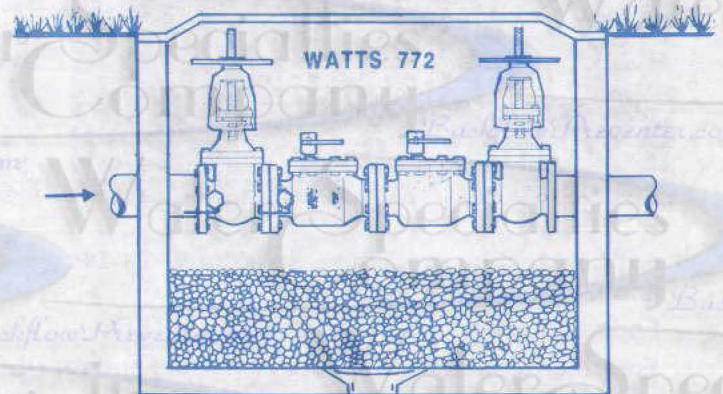
## Installation - Outside Building Above Ground, Figure 2

In an area where freezing conditions do **not** occur, Series 772 can be installed outside of a building. The most satisfactory installation is above ground and should be installed in this manner whenever possible.

It is generally recommended that backflow preventers never be placed in pits unless absolutely necessary and then only when approved by local codes. In such cases, a modified pit installation is preferred.



### OUTSIDE THE BUILDING, MAIN LINE



### Vault Installation

## Installation - Parallel

CONSULT LOCAL CODES FOR APPROVAL

Two or more Series 772 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.



# CHECK VALVES 4", 6", 8" and 10"

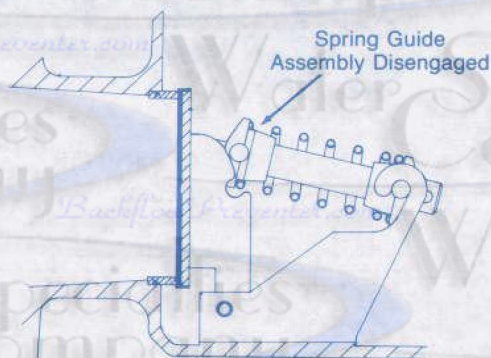
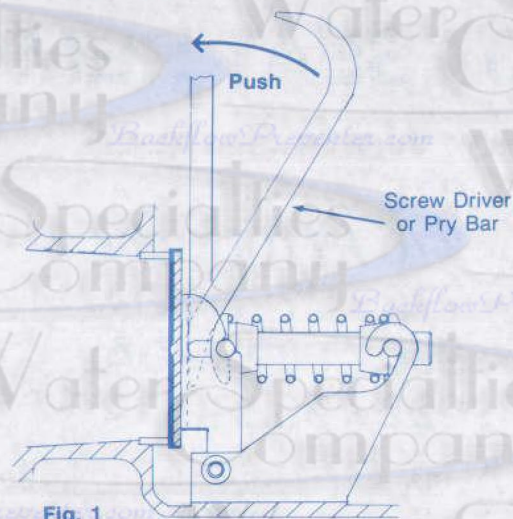
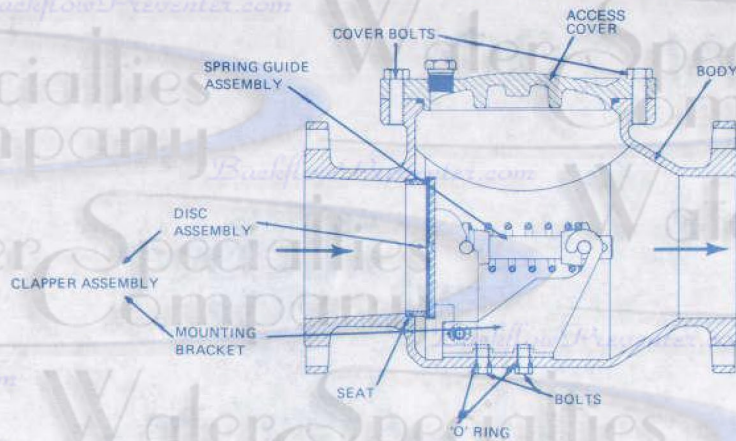


Fig. 2

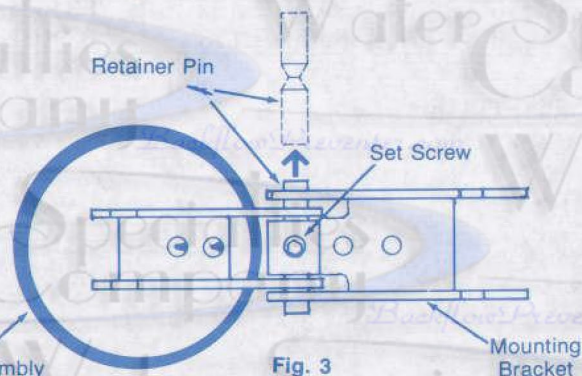


Fig. 3  
Top View

## Spring Guide Assembly Removal Instructions

1. The 772 features a captured spring in a center stem guided assembly. The spring guide assembly must be removed to clean the seat disc. As with any spring loaded mechanism, keep fingers away from pinch points. The spring guide assembly has a heavy spring pre-load and could cause injury. It is not necessary to disassemble the spring guide assembly.
2. Remove the access cover.
3. Apply leverage between the spring guide assembly and the disc assembly as shown in Fig. 1.
4. Compress the spring guide assembly slightly so it will pop free from the notches on the disc assembly and rest as shown in Fig. 2.
5. Completely remove the spring guide assembly by unhooking the two outlet end ears from the mounting bracket.

## Repair Kits

### Check Rubber Parts

887065	RK 772/772 DCDA RC4	4"
887066	RK 772/772 DCDA RC4	6" - 8"
887067	RK 772/772 DCDA RC4	10"

Kits consist of: **Cover O'Ring, Bolt O'Ring, Disc - for one check.**

### 1st or 2nd Check Kits

887050	RK 772 CK4	4"
887051	RK 772 CK4	6" - 8"
887052	RK 772 CK4	10"
887056	RK 772 DCDA CK1	4"
887057	RK 772 DCDA CK1	6" - 8"
887058	RK 772 DCDA CK1	10"
887059	RK 772 DCDA CK2	4"
887060	RK 772 DCDA CK2	6" - 8"
887061	RK 772 DCDA CK2	10"

Kits consist of: **Spring Assembly, cover O'Ring**

## Disc Assembly Removal Instructions

1. Remove the access cover.
2. Remove the spring guide assembly.
3. Unfasten the two bolts on the bottom of the body opposite the access cover.
4. Reach in through the access opening and remove the entire clapper assembly. Opening the clapper assembly, and laying it flat on a table (refer to Fig. 3).
5. With an allen wrench, remove the set-screw which secures the spacer to the retainer pin on the clapper assembly.
6. Slide out the retainer pin to separate the disc assy from the mounting bracket.

**IMPORTANT:** Each repair kit fits (1) one check module only order two of the same kit for complete service.

## Complete Repair Kits

887053	RK 772 T	4"
887054	RK 772 T	6" - 8"
887055	RK 772 T	10"
887062	RK 772 DCDA T	4"
887063	RK 772 DCDA T	6" - 8"
887064	RK 772 DCDA T	10"

Total Valve Repair Kits consist of: **2 Cover O'Rings, 2 Discs, 2 Spring Assembly, 2 Bolt O'Ring - For both checks.**

## Seat Kits

887097	RK 772 S	4"
887098	RK 772 S	6"
887099	RK 772 S	8" - 10"
887100	RK 772DCDA S	4"
887101	RK 772DCDA S	6"
887102	RK 772DCDA S	8" - 10"

Kits consist of: **Seat, Seat O'Ring - for one check**



# 07 SEAT REMOVAL TOOL

For Watts Series:

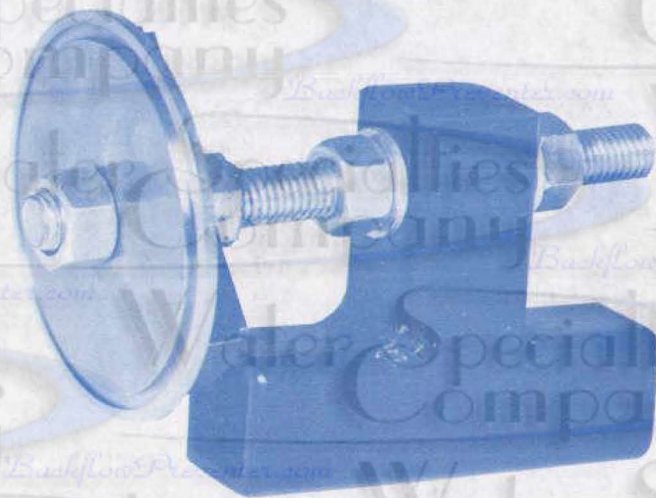
07F

770 / 770DCDA

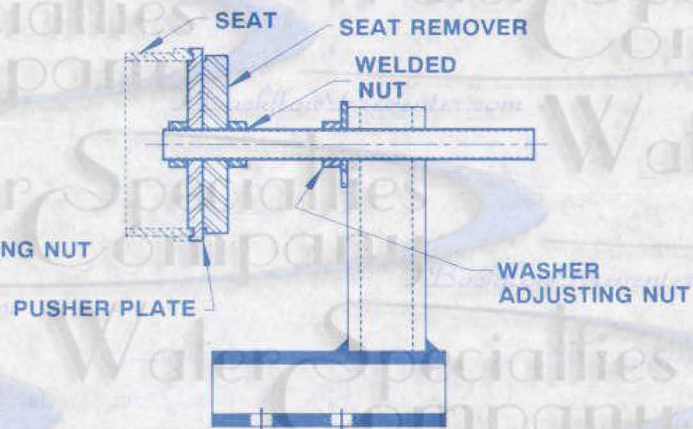
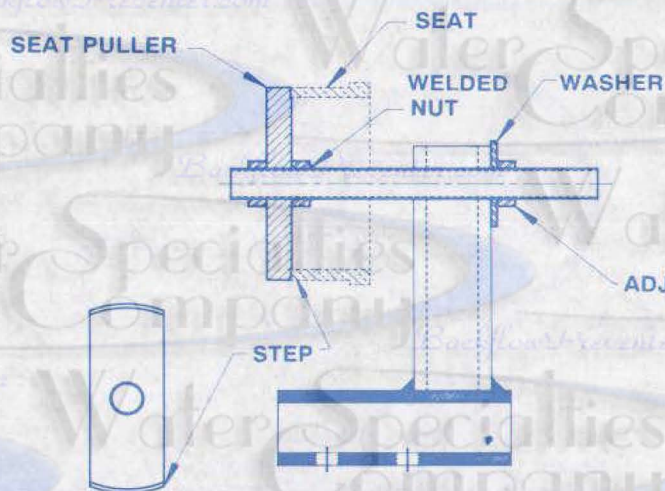
772 / 772DCDA

990 / 990RPDA

992 / 992RPDA



Size	Part No.	EDP No.
4"	SAT 07J153	834030
6"	SAT 07K153	834031
8"	SAT 07L153	834032



## Seat Removal Instructions

1. Assemble removal tool as shown with adjusting nut opposite puller side of mounting bracket.
2. Place assembled removal tool into valve through top access port.
3. Bolt into place with (2) bolts.
4. Place seat puller behind seat in valve body as shown in diagram.
5. Center tool inside seat so that the steps on the puller are on the I.D. of the seat. Take up slack on nut to hold into place.
6. To remove seat turn adjusting nut in direction of pulling out seat. The seat may stick at first but after a few turns you will feel the seat move, keep turning nut until seat falls out of the body bore.

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

## Seat Installation Instructions:

1. Assemble installation tool as shown with adjusting nut on seat side of mounting bracket.
2. Place assembled installation tool into valve through top access port.
3. Bolt into place with (2) bolts.
4. Place new seat onto installation disc as shown.
5. Center seat into bore as you turn adjusting nut pushing seat into bore.
6. Turn adjusting nut until you have pushed seat into bore about  $\frac{3}{4}$  in.
7. Note: Seat ridge will not bottom out on body castings; there will be about A.06 between body casting and seat ridge.
8. Back off on adjusting nut and remove bolt from bottom of tool and remove tool from check valve.
9. Reassemble check valve. Note: If the installation or removal of seat is not properly done seat may get damaged

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