

179

RP/IS-992/992RPDA

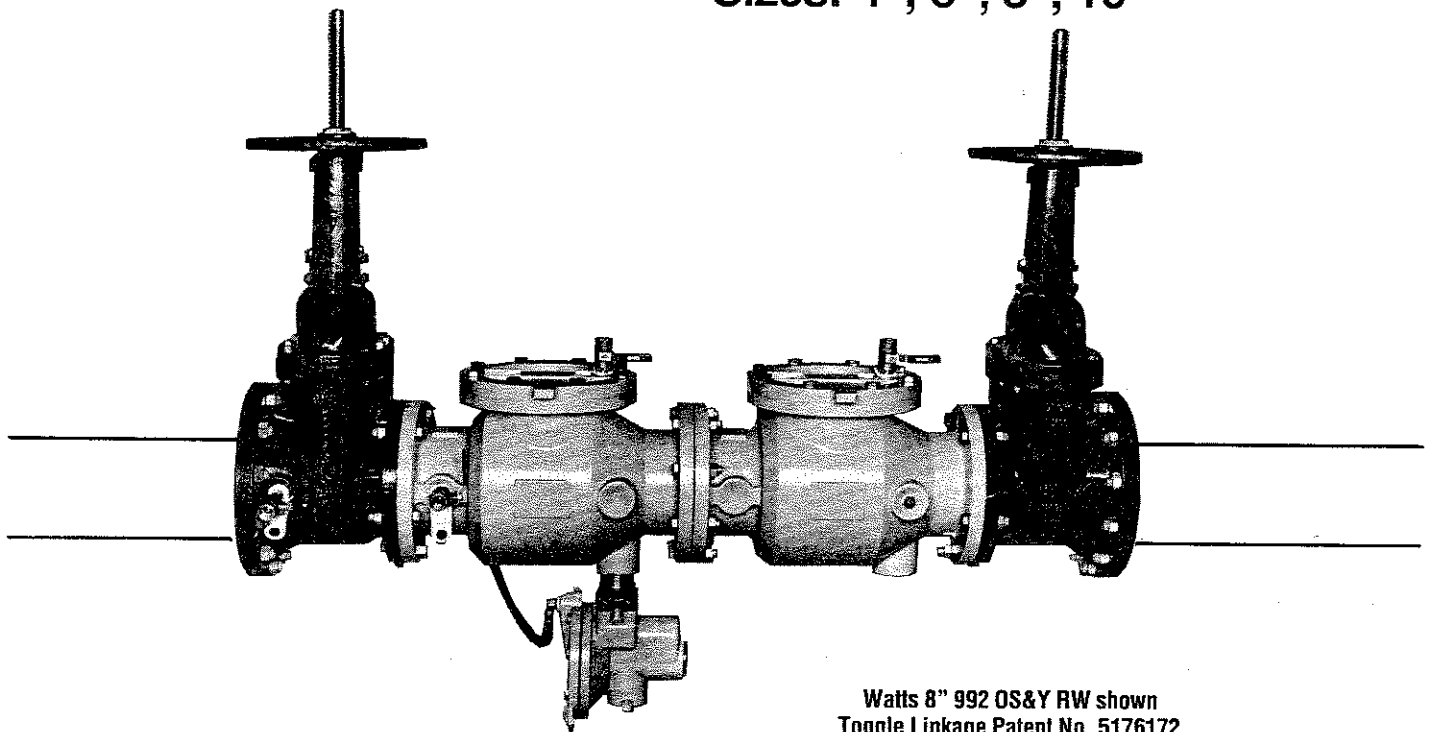
# Series 992/992RPDA

Reduced Pressure Zone Backflow Preventer      Reduced Pressure Detector Assembly

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

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

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



Watts 8" 992 OS&Y RW shown  
Toggle Linkage Patent No. 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.

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

For troubleshooting guide, send for S-TSG.

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

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

World Class Valves



— Since 1874 —

## TROUBLE SHOOTING GUIDE — Backflow Preventers

| PROBLEM   | CAUSE  | SHOULD VALVE BE REPLACED? | SOLUTION   |
|---|--|---------------------------|--|
| <b>A. Valve spits periodically from the vent.</b>                 |  |                           |  |
|   | A.1 Fluctuating supply pressure.   | No                        | A.1 Install a soft seated check valve immediately upstream of the device. (Watts ¾"-2" No. 601 bronze valve.)  |
|   | A.2 Fluctuating downstream pressure.   | No                        | A.2 Install a soft seated check valve downstream of the device close as possible to the shut-off valve. (Watts ¾"-2" No. 601 bronze valve.)  |
| <b>B. Valve drips continually from the vent.</b>                  |  |                           |  |
|   | B.1 Fouled first check.  | No                        | B.1 Flush valve. If flushing does not resolve problem, disassemble valve and clean or replace the first check.   |
|   | B.2 Damaged or fouled relief valve seat.   | No                        | B.2 Clean or replace the relief valve seat.  |
|   | B.3 Relief valve piston "O" ring not free to move due to pipe scale, dirt or build up of mineral deposits. | No                        | B.3 Clean, grease or replace the piston "O" ring.  |
|   | B.4 Excessive back pressure, freezing, or water hammer has distorted the second check.                     | No                        | B.4 Eliminate source of excessive backpressure or water hammer in the system downstream of the device. Use Watts No. 601 to dampen out backpressure and No. 15 to eliminate water hammer. Replace defective second check assembly. In case of freezing; thaw, disassemble, and inspect internal components. Replace as necessary.        |
|   | B.5 Electrolysis of relief valve seat or first check seats.  | No                        | B.5 Replace relief valve seat or inlet cover. Install dielectric unions (Watts series 3001 through 3006). Electrically ground the piping system and/or electrically isolate the device with plastic pipe immediately upstream and downstream of the device.  |
|   | B.6 Deterioration of checks due to high temp. water usage.   | No                        | B.6 Replace plastic checks with stainless steel checks or replace complete unit with No. 909HW.  |
| <b>C. Valve exhibits high pressure drop.</b>                      |  |                           |  |
|   | C.1 Fouled strainer.   | No                        | C.1 Clean strainer element or replace.   |
|   | C.2 Valve too small for flows encountered.   | Yes                       | C.2 Install proper size device based upon flow requirements.   |
| <b>D. No water flows downstream of valve.</b>                     |  |                           |  |
|   | D. Valve installed backwards.  | No                        | D. Install valve in accordance with flow direction arrow.  |
| <b>E. Valve does not test properly.</b>                           |  |                           |  |
|   | E.1 Follow test procedure prescribed by USC foundation manual section 9.                                   | No                        | E.1, E.2 Clean or replace gate valve with full port ball valves or resilient wedge shut-off valves.  |
|   | E.2 Leaky downstream gate valve.   | No                        |  |
| <b>F. Valve quickly and repeatedly fouls following servicing.</b> |  |                           |  |
|   | F. Debris in pipe line is too fine to be trapped by strainer   | No                        | F. Install finer mesh strainer element in the strainer.  |
| <b>G. Water spillage on floor.</b>                                |  |                           |  |
|   | G. Transposed checks 2½"-10" valves  | No                        | G. If valve is disassembled during installation, caution must be exercised to install check valves in their proper order. Inlet shut-off valve, first check, relief valve, second check, second shut-off valve.  |
| <b>H. Winterization of backflow preventers.</b>                   |  |                           |  |
|   |  |                           | H. Electric heat-tape wrap closely together around valve body.<br><br>Build a small shelter around the valve with a large light bulb installed and left on at all times.<br><br>If supply line is not used during the winter, removal of the complete body is the best. This would create an air gap to eliminate any possible backflow. |

# Check Valves 4", 6", 8", 10"

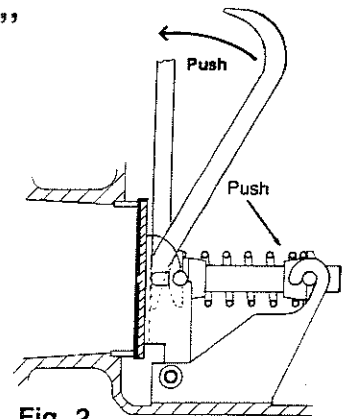
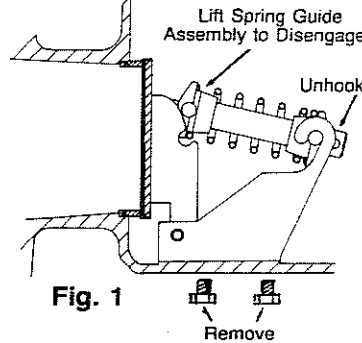
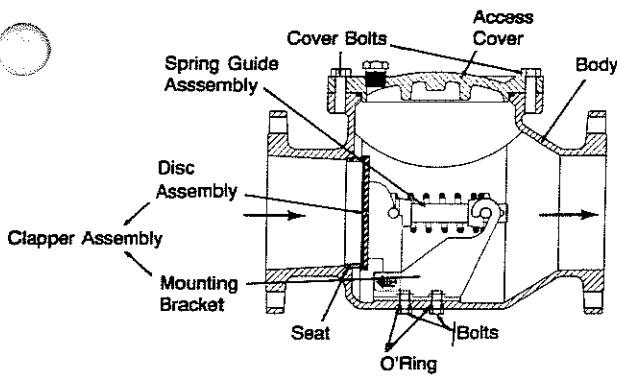


Fig. 2

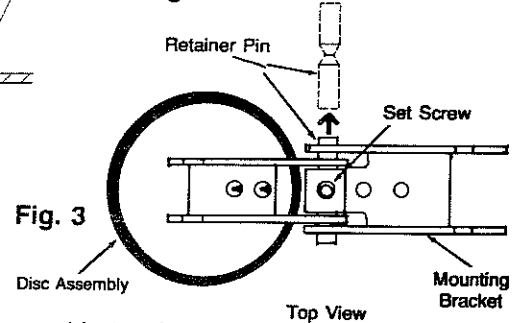


Fig. 3

## Spring Guide Assembly Removal Instructions

1. Remove the access cover.
2. The 992 features a captured spring in a center stem guided assembly. The spring guide assembly must be removed to clean the seat disc. To remove the spring assembly from the mounting bracket remove the two bolts on the bottom of the body opposite the access cover. This will allow the spring module to be removed from the notches on the mounting bracket. (Fig. 1) 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.

## To Replace

1. Bolt the mounting bracket back in place after lubricating the bolt O'Rings.
2. Position the back of the spring guide into the rear hook of the mounting bracket.
3. Apply leverage between the spring guide assembly and the disc assembly as shown in Fig. 2. Compress spring assembly slightly and push down to position the spring assembly in the front notches.

## Disc Assembly Removal Instructions

1. Remove the access cover.
  2. Unfasten the two bolts on the bottom of the body opposite the access cover.
  3. Remove the spring guide assembly.
  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 assembly from the mounting bracket.
- Important:** Each check repair kit fits (1) one check module.

## 992 Repair Kits

### 1st Check Repair Kits

|        |            |         |
|--------|------------|---------|
| 887960 | RK 992 CK1 | 4"      |
| 887961 | RK 992 CK1 | 6" - 8" |
| 887962 | RK 992 CK1 | 10"     |

### 2nd Check Repair Kits

|        |            |         |
|--------|------------|---------|
| 887963 | RK 992 CK2 | 4"      |
| 887964 | RK 992 CK2 | 6" - 8" |
| 887965 | RK 992 CK2 | 10"     |

Kits consist of: Spring assembly & Cover O'ring

### Check Rubber Parts

|        |            |         |
|--------|------------|---------|
| 887966 | RK 992 RC1 | 4"      |
| 887967 | RK 992 RC1 | 6" - 8" |
| 887968 | RK 992 RC1 | 10"     |
| 887715 | RK 992 RC2 | 4"      |
| 887716 | RK 992 RC2 | 6" - 8" |
| 887717 | RK 992 RC2 | 10"     |

Kits consist of: Cover O'ring, 2 Bolt O'rings & Disc assemblies for one check.

### Seat Kits

|        |          |         |
|--------|----------|---------|
| 887975 | RK 992 S | 4"      |
| 887976 | RK 992 S | 6" - 8" |
| 887977 | RK 992 S | 10"     |

Kits consist of: Seat & Seat O'ring - for one check.

### Complete Rubber Parts

|        |           |         |
|--------|-----------|---------|
| 887978 | RK 992 RT | 4"      |
| 887979 | RK 992 RT | 6" - 8" |
| 887980 | RK 992 RT | 10"     |

Kits consist of: 2 Cover O'rings, 4 Bolt O'rings, 2 Discs, 1 Relief valve diaphragm, Relief valve cover O'ring, Piston O'rings, Relief valve seat disc & Seat O'ring.

## 992RPDA Repair Kits

### 1st Check Repair Kits

|        |                |         |
|--------|----------------|---------|
| 887985 | RK 992RPDA CK1 | 4"      |
| 887986 | RK 992RPDA CK1 | 6" - 8" |
| 887987 | RK 992RPDA CK1 | 10"     |

### 2nd Check Repair Kits

|        |                |         |
|--------|----------------|---------|
| 887988 | RK 992RPDA CK2 | 4"      |
| 887989 | RK 992RPDA CK2 | 6" - 8" |
| 887990 | RK 992RPDA CK2 | 10"     |

Kits consist of: Spring assembly & Cover O'Ring

### Check Rubber Parts

|        |                |         |
|--------|----------------|---------|
| 887991 | RK 992RPDA RC1 | 4"      |
| 887992 | RK 992RPDA RC1 | 6" - 8" |
| 887993 | RK 992RPDA RC1 | 10"     |
| 887720 | RK 992RPDA RC2 | 4"      |
| 887721 | RK 992RPDA RC2 | 6" - 8" |
| 887722 | RK 992RPDA RC2 | 10"     |

Kits consist of: Cover O'ring, Bolt O'rings & Disc assemblies for one check.

### Seat Kits

|        |              |         |
|--------|--------------|---------|
| 887982 | RK 992RPDA S | 4"      |
| 887983 | RK 992RPDA S | 6" - 8" |
| 887984 | RK 992RPDA S | 10"     |

Kits consist of: Seat & Seat O'ring for one check

### Complete Rubber Parts

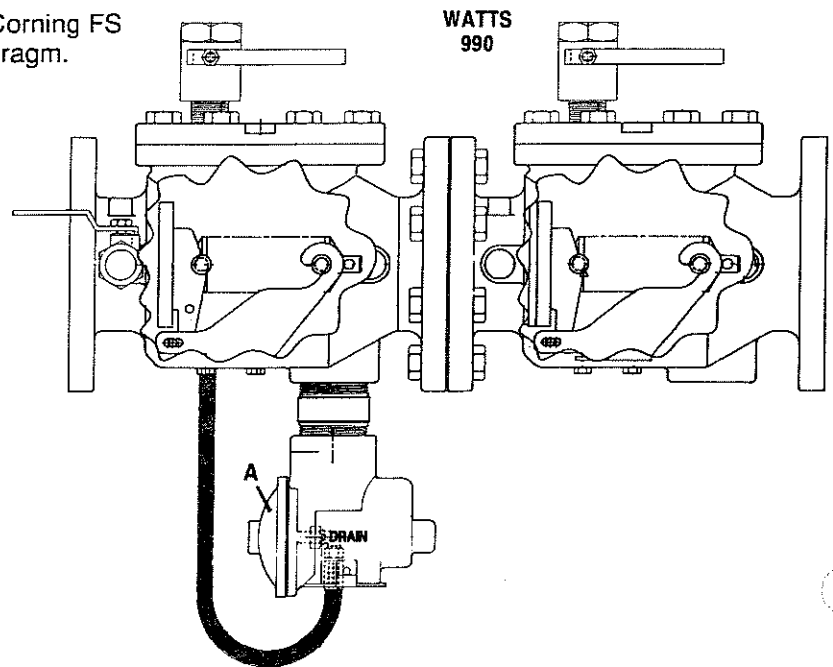
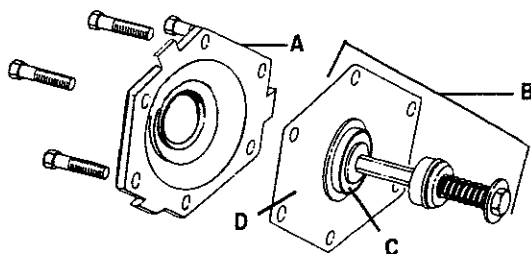
|        |               |         |
|--------|---------------|---------|
| 887001 | RK 992RPDA RT | 4"      |
| 887002 | RK 992RPDA RT | 6" - 8" |
| 887003 | RK 992RPDA RT | 10"     |

Kits consist of: 2 Cover O'rings, 4 Bolt O'rings, 2 Discs, 1 Relief valve diaphragm, Relief valve cover O'ring, Piston O'rings, Relief valve seat disc & Seat O'ring.

# Servicing the Relief Valve 4" - 10"

## To Service the Relief Valve:

1. Remove sensing hose. Check for debris.
2. Remove cover (A).
3. Remove diaphragm and stem assembly (B). Check seat disc (C) for debris and diaphragm (D) for cuts or tears. Repair or replace as necessary.
4. Lubricate only sealing O'Rings with Dow Corning FS 1292. **Do not** lubricate seat disc or diaphragm.
5. Reassemble and test.



## Relief Valve Repair Kits

### Series 992

#### Relief Valve Total

|        |           |         |
|--------|-----------|---------|
| 887972 | RK 992 VT | 4"      |
| 887973 | RK 992 VT | 6" - 8" |
| 887974 | RK 992 VT | 10"     |

Kits consist of: Relief valve stem assembly, Seat O'ring and Cover O'ring.

#### Relief Valve Rubber Parts

|        |           |         |
|--------|-----------|---------|
| 887969 | RK 992 RV | 4"      |
| 887970 | RK 992 RV | 6" - 8" |
| 887971 | RK 992 RV | 10"     |

Kits consist of: Relief valve diaphragm, Piston O'Rings, Seat disc, Seat O'ring & Cover O'Ring.

### Series 992 RPDA

#### Relief Valve Total

|        |               |         |
|--------|---------------|---------|
| 887997 | RK 992RPDA VT | 4"      |
| 887998 | RK 992RPDA VT | 6" - 8" |
| 887999 | RK 992RPDA VT | 10"     |

Kits consist of: Relief valve stem assembly, Seat O'ring & Cover O'ring.

#### Relief Valve Rubber Parts

|        |               |         |
|--------|---------------|---------|
| 887994 | RK 992RPDA RV | 4"      |
| 887995 | RK 992RPDA RV | 6" - 8" |
| 887996 | RK 992RPDA RV | 10"     |

Kits consist of: Relief valve diaphragm, Piston O'Rings, Seat disc, Seat O'Ring & Cover O'Ring.

# Test Procedure for Reduced Pressure Zone Backflow Preventers

The following Test Procedure is one of several that is recognized throughout the United States for verification of the functioning of Backflow preventers.

The following procedure is not a specific recommendation. The Watts series of test kits are capable of performing any of the recognized Backflow test procedures.

- A. Open TC #4 and flush test cocks Nos. 1, 2 and 3 on BF assembly, then close TC #4.
- B. Turn tester on (before connecting hoses). Tester must read all zeros. Close VA and VB.

## Test No. 1 - Relief Valve

1. Install highside hose between TC #2 and tester connection A.
2. Install lowside hose between TC #3 and tester connection B.
3. Open TC #3 then VB. Now open TC #2 slowly, then VA. Close VA then VB.
4. Close #2 shut-off valve.
5. Observe the apparent first check valve differential pressure (A - B).
6. Install bypass hose between VA and VB. Open VB and bleed air by loosening hose connection at VA. Tighten hose connection and close VB.

### Push - Print Head (wait) then Push - Start Test

7. Open VA, then slowly open VB (no more than 1/4 turn). When relief valve drips, push the "hold button" for 2 seconds. Record reading (must be 2 PSID or more).

### Push - Stop Test

8. Close VA and VB.

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

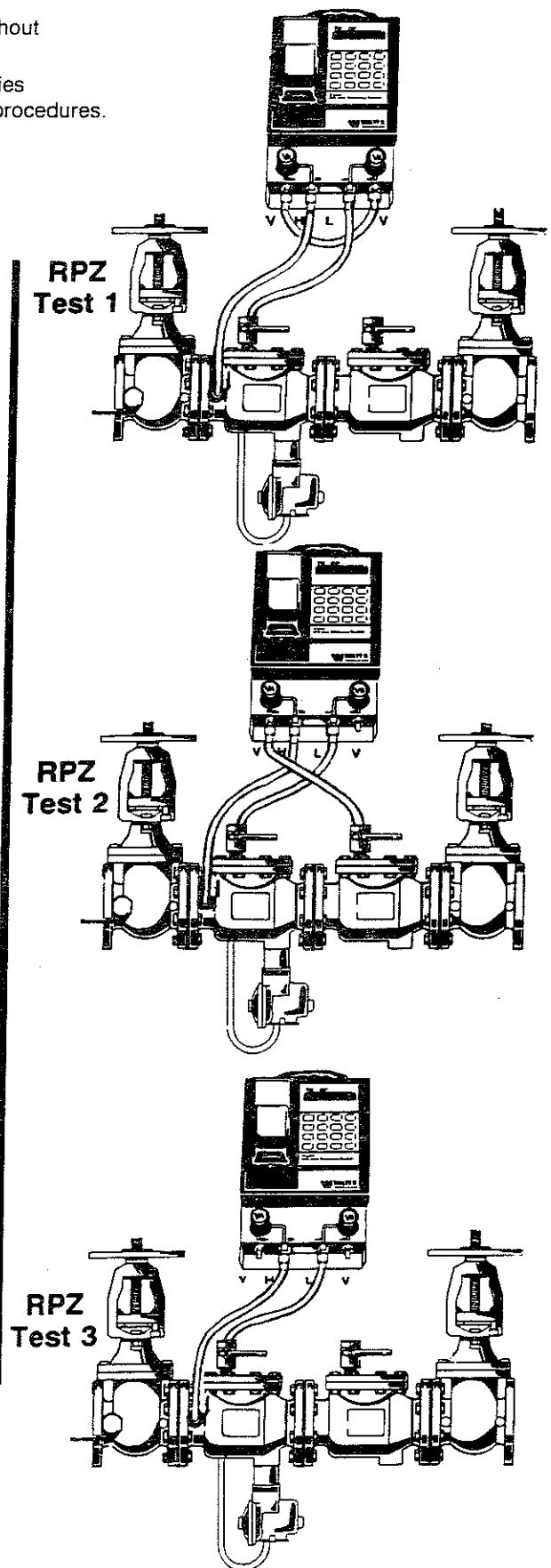
9. Install bypass hose between VA and TC #4. Open VA, then bleed air by loosening hose connection at TC #4. Tighten hose connection. Close VA.

### Push - Start Test

10. Open VB to re-establish pressure within the "zone". Close VB.
11. Open TC #4 then open VA. If relief valve does not drip, record second check valve as "closed tight".

## Test No. 3 - Test No. 1 Check Valve

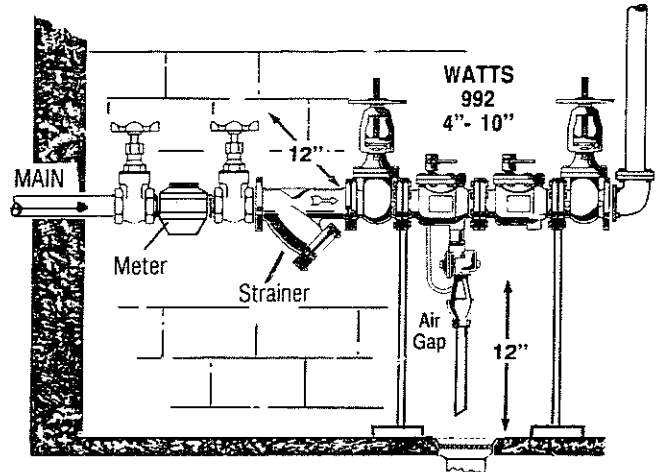
12. Open VB to re-establish first check valve differential pressure. Close VB. Record pressure differential.
- ### Stop Test (Push Stop Test twice)
13. Close test cocks and remove tester, return assembly to normal operating condition.



# Installation - Indoors

For indoor installations, it is important that the device be easily accessible to facilitate testing and servicing. If it is located in a line close to wall, be sure the test cocks are easily accessible. A drain line and air gap should be piped from the relief valve connection as shown, where evidence of discharge will be clearly visible and so that water damage will not occur. Therefore, never install in concealed locations.

\* For Air Gap information contact your technical sales representative on back page.



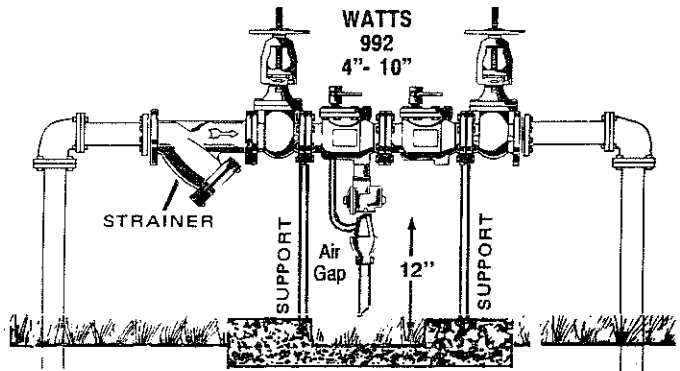
\*Note: For non-strainer models, test cock must be located on the first or inlet shut-off valve.

# Installation - Outside Building Above Ground

In an area where freezing conditions occur, Series 992 can be installed inside a protective insulated or heated enclosure. The most satisfactory installation is above ground and should be installed in this manner whenever possible.

Series 992 should be installed in an accessible location to facilitate testing and servicing. A discharge line should be piped from the air gap at the relief valve connection making sure that there is adequate drainage. Never pipe the discharge line directly into a drainage ditch, sewer or sump. Series 992 should never be installed where any part of the unit could become submerged in standing water. Consideration should be given to the installation of external support structure as applicable.

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.



# Installation - Parallel

CONSULT LOCAL CODES FOR APPROVAL

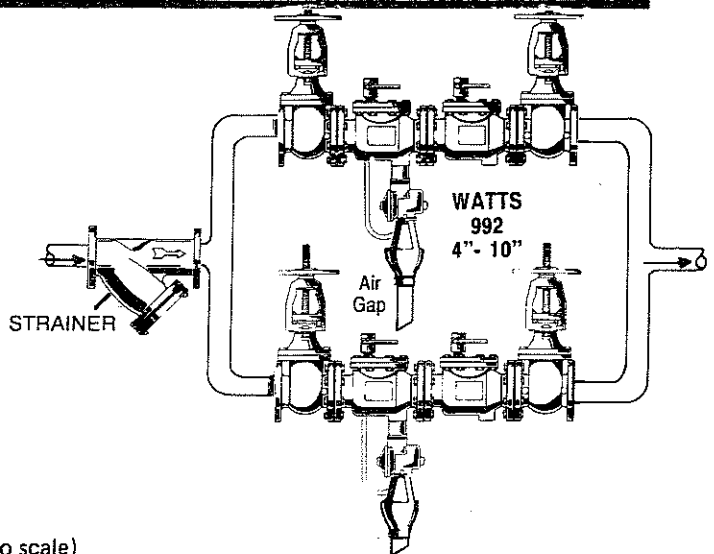
Two or more smaller size valves can be piped in parallel (when approved) to serve a larger supply pipe main. This type of installation is employed where increased capacity is needed beyond that provided by a single valve and permits testing or servicing of an individual valve without shutting down the complete line.

The number of assemblies used in parallel should be determined by the engineer's judgement based on the operating conditions of a specific installation.

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.



# 07 Seat Removal Tool

For Watts Series:

07F

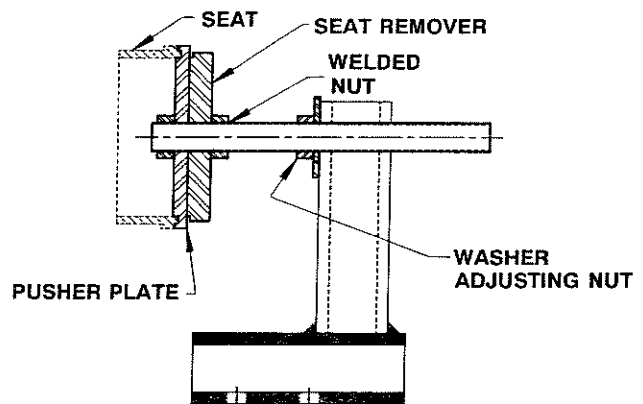
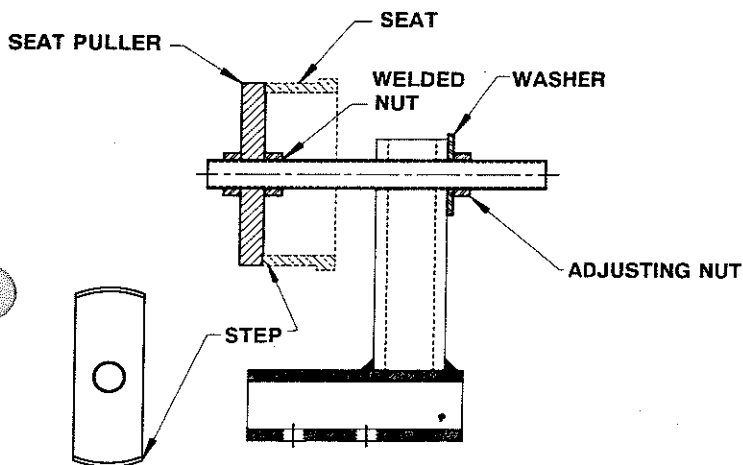
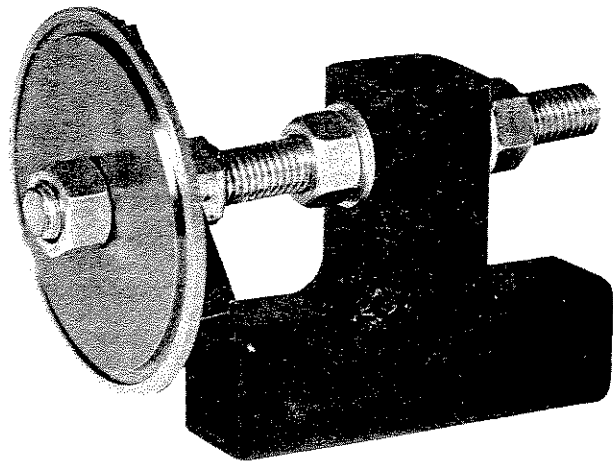
770 / 770DCDA

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 safety 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.

# For Technical Assistance Call Your Authorized Watts Agent.

|                                |  | Telephone #   | Fax #                                   |                              |
|--------------------------------|--|---|---|------------------------------|
| NORTHEAST REGION               | Matthew Vaccaro, N.E. Reg. Sales Mgr.  | 815 Chestnut St., North Andover, MA 01845-6098  | 508 689-6220                            | 508 689-6002                 |
|                                | RMI  | Glenfield Bus. Ctr., 2535 Mechanicsville Tpk., Richmond, VA 23223                               | 804 643-7355                            | 804 643-7380                 |
|                                | Vernon Bitzer Associates, Inc.   | 138 Railroad Dr., Northampton 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  | 203 873-8691                            | 203 873-8693                 |
|                                | Edwards, Platt & Deely, Inc.   | 931A Conklin St., Farmingdale, NY 11735   | 516 777-3800                            | 516 777-3810                 |
|                                | J. B. O'Connor Company, Inc.   | P.O. Box 12927, Pittsburgh, PA 15241  | 412 745-5300                            | 412 745-7420                 |
|                                | The Joyce Agency, Inc.   | 8442 Alban Rd., Springfield, VA 22150   | 703 866-3111                            | 703 866-2332                 |
|                                | Trayco Sales, Inc.   | 11 Nottingham Rd., Lynnfield, MA 01940  | 617 334-6078                            | 617 334-2859                 |
|                                | W. P. Haney Co., Inc.  | 51 Norfolk Ave., South Easton, MA 02375   | 508 238-2030                            | 508 238-8353                 |
|                                | WMS Sales, Inc.  | 9580 County Rd., Clarence Center, NY 14032  | 716 741-9575                            | 716 741-4810                 |
|                                | WMS Sales, Inc.  | 7437 Meadowbrook Dr., Baldwinsville, NY 13027   | 315 622-0763                            | 315 622-0764                 |
|                                | WMS Sales, Inc.  | 4 McMillen Place, Delmar, NY 12054  | 518 475-1017                            | 518 475-9583                 |
|                                | SOUTHEAST REGION   | Bill Johnson, S.E. Reg. Sales Mgr.  | P.O. Box 140153, Orlando, FL 32814-0153 | 407 895-3461                 |
| Smith & Stevenson Co., Inc.    |  | 4935 Chastain Ave., Charlotte, NC 28210   | 704 525-3388                            | 704 525-6749                 |
| Hugh M. Cunningham, Inc.       |  | 13755 Benchmark, Dallas, TX 75234   | 214 888-3800                            | 214 888-3838                 |
| Hugh M. Cunningham, Inc.       |  | 3898 Distribution Blvd., Houston, TX 77018  | 713 691-2866                            | 713 692-8991                 |
| Hugh M. Cunningham, Inc.       |  | 5130 Service Center, San Antonio, TX 78218  | 210 661-4161                            | 210 661-0954                 |
| 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                    | 809 769-0085                            | 809 750-5120                 |
| Earl L. Griffin Co.            |  | 2776 B.M. Montgomery St., Birmingham, AL 35209  | 205 879-3469                            | 205 870-5027                 |
| Central Sales Company          |  | 1612 Fourth Ave. North, Nashville, TN 37208-2212  | 615 259-9022                            | 615 259-9024                 |
| Central Sales Company          |  | 2170 York Ave., Memphis, TN 38104-5586  | 901 278-2251                            | 901 272-1614                 |
| Spotswood Associates           |  | 6700 Best Friend Rd., Norcross, (Atlanta) GA 30071-2919   | 404 447-1227                            | 404 263-6899                 |
| Carr Company                   |  | 3003 Pennington Dr., Orlando, FL 32804  | 407 291-6035                            | 407 299-0378                 |
|                                | 6000 Park of Commerce Blvd., Boca Raton, FL 33487  | 407 997-0999  | 407 997-2633                            |                              |
| MIDWEST REGION                 | Don Sinsabaugh, MidWest Reg. Sales Mgr.  | 42 W. 597 Steeple Chase, St. Charles, IL 60175  | 708 377-3671                            | 708 513-5063                 |
|                                | Pro-Spec, Inc.   | 8186 East 44th St., Tulsa, OK 74145   | 918 664-5642                            | 918 664-6069                 |
|                                | Disney-McLane, Inc.  | 2704 Colerain Ave., Cincinnati, OH 45225  | 513 541-1682                            | 513 541-0073                 |
|                                | Mid-Continent Marketing Services Ltd.  | 1724 Armitage Ct., Addison, IL 60101  | 708 953-1211                            | 708 953-1067                 |
|                                | Mid-Continent Marketing Services Ltd.  | 5508 Elmwood Ave., Suite 401, Indianapolis, IN 46203  | 317 782-1515                            | 317 782-4360                 |
|                                | Madsen-Bayer & Associates, Inc.  | 2510 Englewood Dr., Columbus, OH 43219  | 614 476-1833                            | 614 476-1846                 |
|                                | Madsen-Bayer & Associates, Inc.  | 4640 Warner Rd., Garfield Heights, OH 44125   | 216 641-5808                            | 216 641-5546                 |
|                                | J. W. Sullivan Company   | 7901 Manchester Ave., St. Louis, MO 63143   | 314 644-5454                            | 314 644-5527                 |
|                                | 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                 |
|                                | Gary S. Gilpin Sales Co.   | 4468 Emberson Ave., Louisville, KY 40209  | 502 367-2178                            | 502 367-9080                 |
|                                | The Harris-Billings Co.  | 1920 Annapolis Lane North, Plymouth, MN 55441-3751  | 612 559-9400                            | 612 559-8239                 |
|                                | Advance Industrial Marketing Ltd.  | 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                            |                              |
| WEST COAST REGION              | Jim Engard, West Reg. Sales Mgr.   | 749 Renate Way, Paso Robles, CA 93446   | 805 239-8852                            | 805 239-8859                 |
|                                | Hollabaugh Brothers & Associates   | 1260 6th Ave. South, Seattle, WA 98134-1308   | 206 467-0346                            | 206 467-8368                 |
|                                | Hollabaugh Brothers & Associates   | 3028 S.E. 17th Ave., Portland, OR 97202   | 503 238-0313                            | 503 235-2824                 |
|                                | Rocky Mountain Marketing   | 3300 Princeton N.E., N-27, Albuquerque, NM 87107  | 505 883-4405                            | 505 881-3767                 |
|                                | R. E. Fitzpatrick Sales, Inc.  | 16 East 8th Ave., Midvale, UT 84047   | 801 566-7156                            | 801 566-4979                 |
|                                | Crown Sales  | 360 Mokauea St., Honolulu, HI 96819   | 808 845-7881                            | 808 841-4504                 |
|                                | Fanning & Associates, Inc.   | 6765 Franklin St., Denver, CO 80229-7111  | 303 289-4191                            | 303 286-9069                 |
|                                | Plumbing/Industrial Representatives  | 2012 West 4th St., Tempe, AZ 85281  | 602 968-8586                            | 602 829-7682                 |
|                                | R. C. Hartnett & Associates  | 30852 Huntwood Ave., Hayward, CA 94544  | 510 471-7200                            | 510 471-4441                 |
|                                | Delco Sales, Inc.  | 2267 Yates Ave., Los Angeles, CA 90040  | 213 890-9250                            | 213 724-5227                 |
| CANADA                         | Watts Regulator Company,<br>Division of Watts Industries (Canada) Inc.<br>Regional Office (Montreal) | 441 Hanlan Rd., Woodbridge, Ontario L4L 3T1<br>2690 Sabourin, Ville St. Laurent, Quebec H4S 1M2 | 416 851-8591<br>514 337-9010            | 416 851-8788<br>514 337-8843 |
|                                | Fetterly & Associates Inc.   | 6080 Young St., Suite 911, Halifax, Nova Scotia B3K 5L8   | 902 454-9377                            | 902 454-6085                 |
|                                | Fetterly & Associates Inc.   | 303 St. George St., Moncton, New Brunswick E1C 8T6  | 506 857-2240                            | 506 859-9795                 |
|                                | Fetterly & Associates Inc.   | 22 Carmanville St., St. John's, Newfoundland A1B 5K8  | 709 368-8887                            | 709 368-8553                 |
|                                | Polymex Controls Inc.  | 2800 rue Daiton, Ste. 3, Parc Colbert, Ste-Foy, Quebec G1P 3S4                                  | 418 657-2800                            | 418 657-2700                 |
|                                | • Walmar   | 24 Gurdwara Rd., Nepean, Ontario K2E 8A2  | 613 225-9774                            | 613 225-0673                 |
|                                | W.B. Gingerich Sales Ltd.  | 107 Hamilton Rd., New Hamburg, Ontario N0B 2G0  | 519 662-2460                            | 519 662-2491                 |
|                                | Northern Mechanical Sales  | 163 Pine St., Garson, Ontario P0M 1V0   | 705 693-2715                            | 705 693-4394                 |
|                                | Murray Krovats Agency  | 941-C Erin St., Winnipeg, Manitoba R3G 2W6  | 204 786-2747                            | 204 775-3186                 |
|                                | Triumph Hydraulics   | 1729 Broder St., Regina, Saskatchewan S4N 5N6   | 306 789-2356                            | 306 781-6121                 |
|                                | • Currie Agencies Ltd.   | 3117 Underhill Ave., Burnaby, British Columbia V5A 3C8  | 604 420-6070                            | 604 420-9022                 |
|                                | • D.C. Sales Corp.   | 6031 4th St. S.E., Calgary, Alberta T2H 2A5   | 403 253-6808                            | 403 259-8331                 |
|                                | Schneider Sales Agency Co. Ltd.  | RR2, 1444 River Rd. West, Wasagna Beach, Ontario L0L 2P0  | 705 429-3903                            | 705 429-2437                 |
|                                | Hdqtrs./EXPORT: Watts Regulator Company  | 815 Chestnut St., North Andover, MA 01845-6098 U.S.A.   | 508 688-1811                            | 508 794-1848                 |

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