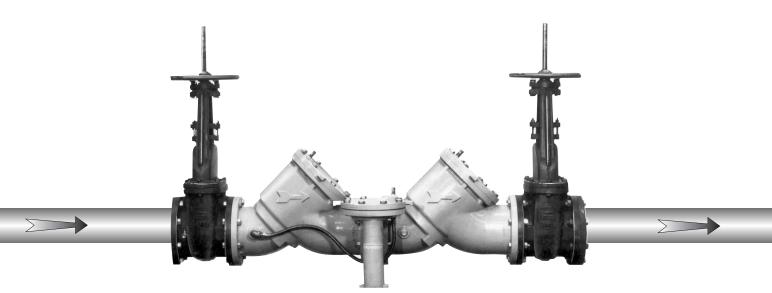
# Series 909/909RPDA

Reduced Pressure Zone Assemblies Reduced Pressure Detector Assemblies

Sizes: 21/2" - 10"



Watts 909 OSY shown Designed for inline servicing

- 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.

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

**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.

Its important that this device 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.

#### **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.)

For more information: www.wattsind.com/prop65

Limited Warranty: Watts Regulator 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. This 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 or improper installation of the product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Any implied warranties that are imposed by law are limited in duration to one year.

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.



# **Basic Installation Instructions**

#### 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.

#### Watts 21/2" - 10" 909

# High Capacity Relief Series:

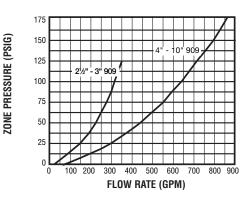
#### **Location and installation Considerations**

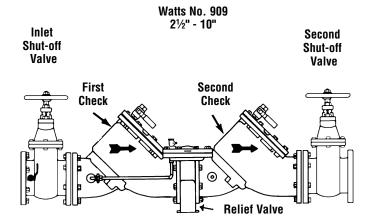
- Backflow preventers must be installed in high-visibility locations in order to allow for immediate notice of telltale discharge or other malfunction. This location should also facilitate testing and servicing, and protect against freezing and vandalism.
- 2. Installing a backflow preventer in a pit or vault is not recommended. However, if this becomes necessary, Watts highly recommends that a licensed journeyman tradesperson, who is recognized by the authority having jurisdiction, be consulted to ensure that all local codes and required safety provisions are met. An air gap below the relief port must be maintained so as to avoid flooding and submersion of the assembly, which may lead to a cross connection. \*Please refer to Figure No. 1 for further information.
- 3. A strainer should be installed ahead of the backflow preventer to protect all internal components from unnecessary fouling.

**Caution:** Do not install a strainer ahead of the backflow preventer on seldom-used, emergency water lines (i.e. fire sprinkler lines). The strainer mesh could potentially become clogged with debris present in the water and cause water blockage during an emergency.

- 4. Normal discharge and nuisance spitting are accommodated by the use of a Watts air gap fitting and a fabricated indirect waste line. Floor drains of the same size MUST be provided in case of excessive discharge. \*Please refer to Figure No. 1 and Figure No. 2 for further information.
- 5. When a 909 Series backflow preventer is installed for dead-end service applications. (i.e. boiler feed lines, cooling tower makeup or other equipment with periodic flow requirements), discharge from the relief vent may occur due to water supply pressure fluctuation during static no-flow conditions. A check valve may be required ahead of the backflow preventer. \*Please see "Troubleshooting", Page 7, prior to installation.
- 6. The 909 Series backflow preventer is designed so that the critical level of the relief valve is positioned below the first check. This unique feature allows the valve to be installed either vertically •(flow direction down) or horizontally.

Figure 1 Series 909 RELIEF VALVE DISCHARGE RATES





- 7. The relief valve module on 2½" 10" 909 Series assemblies may be turned to discharge to the opposite side. To do so, unbolt the relief valve and turn the relief valve discharge port to the opposite side. Mount the high pressure hose on the opposite. This should be done by a licensed journeyman tradesperson, who is recognized by the authority having jurisdiction and only when space is critical for testing or repair.
- 8. ASSEMBLY: If the backflow preventer is disassembled during installation, it MUST be reassembled in its proper order. The gate valve with the test cock is to be mounted on the inlet side of the backflow preventer. The test cock must be on the inlet side of the wedge. Please see above. Failure to reassemble correctly will result in possible water damage due to excessive discharge from the relief port/vent and possible malfunction of the backflow preventer.
- Installation procedures must comply with all state and local codes and must be completed by a licensed journeyman tradesperson who is recognized by the authority having jurisdiction. Please see Page 3 for specific installation procedures.
- Prior to installation, thoroughly flush all pipe lines to remove any foreign matter.
- 11.START UP at Initial Installation and After Servicing: The downstream shut-off should be closed. Slowly open upstream shutoff and allow the backflow preventer to fill slowly. Bleed air at each test cock. When backflow preventer is filled, slowly open the downstream shut-off and fill the water supply system. This is necessary to avoid dislodging "O" rings or causing damage to internal components.
- 12.TEST: The 909 Series backflow preventer may be tested by a certified tester at the time of installation in order to ascertain that the assembly is in full working order and may be relied upon to protect the safe drinking water as per applicable standard.

 Consult local authorities regarding acceptance of vertical installations.

Figure 2

VALVE Size	TYPICAL FLOW RATES AS SIZED BY FLOOR DRAIN MANUFACTURERS	DRAIN SIZE	
21/2"	55 gpm	2	
3"	112 gpm	3	
4"	170 gpm	4	
6", 8", 10"	350 gpm	5	

# **Watts Series 909 Installation Instructions**

Sizes 2½" - 10"

#### Installation

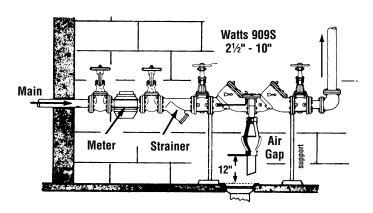
- A. Series 909 should be installed in a horizontal and upright position. This positions the relief valve below the first check valve, enabling the zone to drain through the relief valve outlet. The shutoff valve with the test cock is to be mounted on the inlet side of the backflow preventer. The test cock is on the inlet side of the shutoff valve.
- B. The 909 should always be installed in an accessible location to facilitate testing and servicing. Check the state and local codes to insure that the backflow preventer is installed in compliance, such as the proper height above the ground.
- C. Water discharge from the relief valve should be vented in accordance with code requirements. The relief valve should never be solidly piped into a drainage ditch, sewer or sump. The discharge should be funneled through a Watts air gap fitting piped to a floor drain.
- D. Watts recommends a strainer be installed ahead of Watts 909 Series assemblies to protect the discs from unnecessary fouling.
- E. Backflow preventers should never be placed in pits unless absolutely necessary and then only when and as approved by local codes. Consult your local or state plumbing or health inspector. Watts recommends installation indoors or above ground in an insulated enclosure.

# Start Up

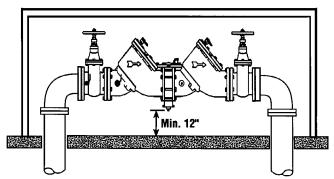
- F. The downstream shutoff should be closed. Open upstream slowly, fill the valve and bleed the air through Test cock 2, 3 and 4. When valve is filled, open the downstream shutoff slowly and fill the water supply system. This is necessary to avoid water hammer or shock damage.
- G. The installation of a Watts air gap with the drain line terminating above a floor drain will handle any normal discharge or nuisance spitting through the relief valve. However, floor drain size may need to be designed to prevent water damage caused by a catastrophic failure condition. Do not reduce the size of the drain line from the air gap fitting.
- H. 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.

#### **Indoors**

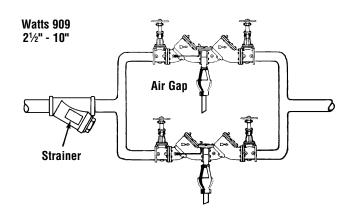


#### Above Ground



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

#### **Parallel**



#### **TABLE ONE - CAPACITY REQUIRED FOR SYSTEM**

50 gpm	100 gpm	150 gpm	200 gpm	250 gpm	350 gpm	450 gpm	640 gpm	1000 gpm	2000 gpm	3000 gpm	5000 gpm
Two 3/4"	Two 1"	Two 11/4"	Two 1½"	Two 1½"	Two 2"	Two 2½"	Two 3"	Two 4"	Two 6"	Two 8"	Two 10"
Devices	Devices	Devices	Devices	Devices	Devices	Devices	Devices	Devices	Devices	Devices	Devices

Table shows total capacity provided with dual valve installations of various sizes.

# **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 high side hose between TC #2 and tester connection A.
- 2. Install low side hose between TC #3 and tester connection B.
- 3. Open VB then TC #3. Now open VA then TC #2 slowly. Close VA then VB.
- 4. Close #2 shutoff valve.
- 5. Observe the apparent first check valve differential pressure (A B).
- 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 ½ 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

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

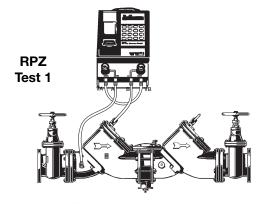
#### Test No. 3 - Test No. 1 Check Valve

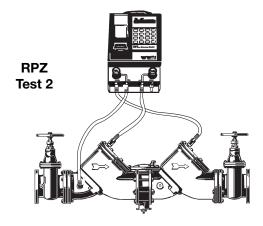
12. Open VB to reestablish first check valve differential pressure. Close VB. Record pressure differential.

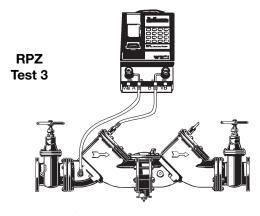
#### Stop Test (Push Stop Test twice)

13. Close test cocks and remove tester, return assembly to normal operating condition.

#### **Watts TK-DP**







For complete testing information, send for IS-TK-9A or IS-TK-DP/DL.

#### Replacement Water Meters for 2½" - 10" Series 909RPDA, 990RPDA and 992RPDA.

ORDERING	VALVE		
CODE	SERIES	SIZE	DESCRIPTION
0835561	909RPDA/990RPDA/992RPDA	2½" – 10"	D709BA203-GPM-B (registers in gallons)
1203010	909RPDA/990RPDA/992RPDA	2½" – 10"	D709BB203-CFM-B (registers in cubic feet)
CFM AND GP	M Outside Reader Kit		
0899022	909RPDA/990RPDA/992RPDA	21/2" - 10"	ROM DC/RP CFM-B
0899023	909RPDA/990RPDA/992RPDA	2½" – 10"	ROM DC/RP GPM-B

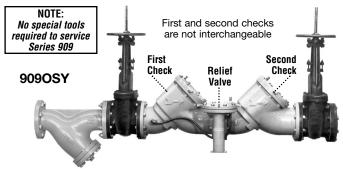




#### Outside Reader



# **Servicing First and** Second Checks 21/2" - 10"



~				
909 Repair Kits 2½" - 10"				
ORDERING CODE	KIT NO.	SIZE		
First Check Kits:				
0887210	RK 909 CK1	2½" - 3"		
0887212	RK 909 CK1	4"		
0887213	RK 909 CK1	6"		
0887214	RK 909 CK1	8"		
0887215	RK 909 CK1	10"		
Second Check Kits:				
0887211	RK 909 CK2	21/2" - 3"		
0887216	RK 909 CK2	4"		
0887217	RK 909 CK2	6"		
0887218	RK 909 CK2	8"		
0887219	RK 909 CK2	10"		
Kits include: Disc & Spri	ng assembly, Cover O-ring and	lubricant.		
First Check Rubber Pa	arts Kits:			
0887220	RK 909 RC1	2½" - 3"		
0887221	RK 909 RC1	4"		
0887223	RK 909 RC1	6"		
0887224	RK 909 RC1	8"		
0887225	RK 909 RC1	10"		
Second Check Rubber Parts Kits:				
0887226	RK 909 RC2	21/2" - 3"		
0887227	RK 909 RC2	4"		
0887228	RK 909 RC2	6"		
0887229	RK 909 RC2	8"		
0887230	RK 909 RC2	10"		

Kits include: Lower Stem O-ring (6" only), Check disc, Cover O-ring, and lubricant.

Seat	Kits	tor	Chec	KS:

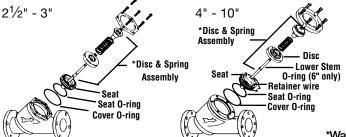
0887730		RK 909 S	2½" -	3"
0887731		RK 909 S	4"	
0887732		RK 909 S	6"	
0887733		RK 909 S	8"	
0887734		RK 909 S	10"	
te includa: Cast	Soat O-ring	Cover O-ring	Datainar wire and lubricant	

Kits include: Seat, Seat O-ring, Cover O-ring, Retainer wire and lubricant.

#### **Total Rubber Parts Kits:**

0887750	RK 909 RT	2½" - 3"
0887751	RK 909 RT	4"
0887752	RK 909 RT	6"
0887753	RK 909 RT	8"
0887754	RK 909 RT	10"
0887761	RK 909M1 RT	8"
0887762	RK 909M1 RT	10"

Kits include: Lower Stem O-ring (6" only), Check disc, Cover O-ring, Sleeve O-ring, Piston O-ring, RV disc assembly, Diaphragm, Piston seal and Lubricant. When ordering specify EDP number, Kit Number and Valve Size.



- 1. Remove the hatch cover bolts. NOTE: The 909 is designed so that when the bolts are backed off ½", all the spring load is released from the cover and retained by the check module. CAUTION: Be sure to verify this before removing all the bolts.
- 2. Lift the check valve module straight out taking care not to hit and damage the seating.
- 3. The seat ring may be removed and replaced by pulling out the two wire retainers on sizes 4" - 10" while on sizes 2½" - 3", one quarter turn twist removes seat. The wire retainers are 10" long. One is drawn out clockwise and the other is drawn out counterclockwise.
- 4. With the retainer wires removed, the seat ring can be lifted straight up and removed.
- 5. **CAUTION:** The check valve spring is in compression. The spring load is captured by the two spring retainers and the stem. The spring retainers are not to be removed for servicing. If there is a need to replace the spring, spring retainer or stem, an assembled module must be obtained from the factory. These modules are not interchangeable, be sure to replace the first check with a first check module and the second check with a second check module.
- 6. To replace the disc on sizes  $2\frac{1}{2}$ " 4" simply remove the retaining nut or for sizes 6" - 10" remove the allen head socket screws. Reverse this procedure to install the new disc.

#### 909RPDA Repair Kits 21/2" - 10"

Sositi DA nepali	KILS 2/2 - 10	
ORDERING CODE	KIT NO.	SIZE
First Check Kits:		
0887239	RK 909RPDA CK1	21/2" - 3"
0887240	RK 909RPDA CK1	4"
0887241	RK 909RPDA CK1	6"
0887242	RK 909RPDA CK1	8"
0887243	RK 909RPDA CK1	10"
Second Check Kits:		
0887244	RK 909RPDA CK2	21/2" - 3"
0887245	RK 909RPDA CK2	4"
0887246	RK 909RPDA CK2	6"
0887247	RK 909RPDA CK2	8"
0887248	RK 909RPDA CK2	10"
Kits include: Disc & Sprir	ng assembly, Cover O-ring and lu	bricant.
First Check Rubber Pa	rts Kits:	
0887249	RK 909RPDA RC1	21/2" - 3"
0887250	RK 909RPDA RC1	4"
0887251	RK 909RPDA RC1	6"
0887252	RK 909RPDA RC1	8"
0887253	RK 909RPDA RC1	10"
Second Check Rubber	Parts Kits:	
0887254	RK 909RPDA RC2	21/2" - 3"
0887255	RK 909RPDA RC2	4"
0887256	RK 909RPDA RC2	6"
0887257	RK 909RPDA RC2	8"

RK 909RPDA RC2 Kits include: Lower Stem O-ring (6" only), Check disc, Cover O-ring, and lubricant.

#### **Seat Kits for Checks:**

0887258

• • • • • • • • • • • • • • • • • • • •		
0887735	RK 909RPDA S	21/2" - 3"
0887736	RK 909RPDA S	4"
0887737	RK 909RPDA S	6"
0887738	RK 909RPDA S	8"
0887739	RK 909RPDA S	10"

Kits include: Seat, Seat O-ring, Cover O-ring, Retainer wire and lubricant.

#### **Total Rubber Parts Kits:**

0887756	RK 909RPDA RT	21/2" - 3"
0887757	RK 909RPDA RT	4"
0887758	RK 909RPDA RT	6"
0887759	RK 909RPDA RT	8"
0887760	RK 909RPDA RT	10"
0887764	RK 909RPDAM1 RT	8"
0887765	RK 909RPDAM1 RT	10"

Kits include: Lower Stem O-ring (6" only), Check disc, Cover O-ring, Sleeve O-ring, Piston O-ring, RV disc assembly, Diaphragm, Piston seal and Lubricant.

For further details contact your technical sales representative, see back page.

\*Warning: Spring assembly is factory assembled. DO NOT DISASSEMBLE

# Servicing the Relief Valve 21/2" - 10"

- 1. Remove the relief valve cover bolts. Note the 909 is designed so that when the bolts are backed off ½" all the relief valve spring load is retained by the bottom plug spring module.
  - **CAUTION:** Be sure to verify this before removing all the bolts.
- 2. Remove the cover and diaphragm. The relief valve piston assembly can be lifted straight up and out.
- Replace the wiper seal and piston o-ring and apply grease to the o-ring.
- 4. To replace the relief valve disc, hold the upper guide fin and unscrew the diaphragm pressure plate. It may be necessary to lightly tap the cast webs and the pressure plate to loosen. Replace with a new disc holder assembly and o-ring. Note: the disc rubber is molded into the disc holder and is supplied as a disc holder assembly.
- Removal of the bottom plug and spring assembly. During normal field service there is no need to remove the bottom plug spring assembly other than inspection. It can be removed by simply unscrewing with a large pipe wrench.

**CAUTION:** The spring as retained on the bottom plug is highly loaded. NO attempt should be made in the field to remove the spring. For replacement, a complete bottom plug assembly must be obtained from the factory.

For further details contact your technical sales representative, see back page.

#### 909 Repair Kits 21/2" - 10"

ORDERING CODE	KIT NO.	SIZE
Relief Valve Rubber F	Parts	
0887231	RK 909 RV	21/2" - 3"
0887232	RK 909 RV	4" - 6"
0887233	RK 909 RV	8" - 10"
0887234	*RK 909M1 RV	4" - 10"
Tring to all the Oliver and the	. O	' DV/.!'

Kits include: Sleeve o-ring, Seat o-ring, Piston o-ring, Stem o-ring, RV disc assembly, Diaphragm, Piston seal, Bottom plug o-ring and lubricant

#### **Relief Valve Total**

0887235	RK 909 VT	21/2" - 3"
0887236	RK 909 VT	4" - 6"
0887237	RK 909 VT	8" - 10"
0887238	*RK 909M1 VT	4" - 10"

Kits include: Adapter o-ring, Diaphragm, Disc & piston assembly, Seat, Seat o-ring and lubricant. (4" - 10" M1 includes bottom plug & spring assembly.)

#### **Cover Kits**

0101 11110		
0887740	RK 909 C	21/2" - 3"
0887741	RK 909 C	4"
0887742	RK 909 C	6"
0887743	RK 909 C	8"
0887744	RK 909 C	10"

Kits include: Cover, Cover o-ring and lubricant.

### 909RPDA Repair Kits 21/2" - 10"

#### **Relief Valve Rubber Parts**

0887263	RK 909RPDA RV	21/2" - 3"
0887264	RK 909RPDA RV	4" - 6"
0887265	RK 909RPDA RV	8" - 10"
0887266	*RK 909RPDAM1 RV	4" - 10"

Kits include: Sleeve o-ring, Seat o-ring, Piston o-ring, Stem o-ring, RV disc assembly, Diaphragm, Piston seal, Bottom plug o-ring and lubricant

#### **Relief Valve Total**

0887259	RK 909RPDA VT	21/2" - 3"
0887260	RK 909RPDA VT	4" - 6"
0887261	RK 909RPDA VT	8" - 10"
0887262	*RK 909RPDAM1 VT	4" - 10"

Kits include: Adapter o-ring, Diaphragm, Disc & piston assembly, Seat, Seat o-ring and lubricant. (4" - 10"M1 includes bottom plug & spring assembly.)

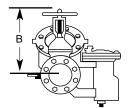
#### **Cover Kits**

0887745	RK 909RPDA C	21/2" - 3"
0887746	RK 909RPDA C	4"
0887747	RK 909RPDA C	6"
0887748	RK 909RPDA C	8"
N8877 <b>4</b> 9	RK 909RPDA C	1∩"

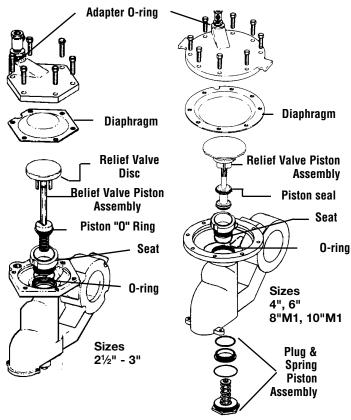
Kits include: Cover, Cover o-ring and lubricant.

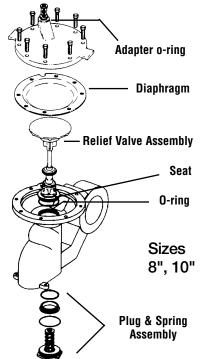
\*M1 = Cast iron relief valve.





Clearance Required for Servicing			
	Α	В	
21/2-3	10"	11"	
4	15"	14"	
6	15"	16"	
8	23"	21"	
10	25"	21"	





# **Trouble Shooting Guide - Backflow Preventers**

#### Problem Cause

- A. Valve spits periodically from the ventA.1 Fluctuating supply pressure.
  - A.2 Fluctuating downstream pressure
- **B.** Valve drips continually from the vent
  - **B.1** Fouled first check
  - **B.2** Damage or fouled 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.
  - **B.4** Excessive back pressure, freezing, or water hammer has distorted the second check.
  - **B.5** Electrolysis or relief valve seat or first check seats.
  - **B.6** Valve improperly reassembled.
- C. Valve exhibits high pressure drop.
  - C.1 Fouled strainer.
  - C.2 Valve too small for flows encountered.
- **D.** No water flows downstream of valve.
  - **D.** Valve installed backwards.
- E. Valve does not test properly
  - **E.1** Follow manufacturer's test procedure
  - **E.2** Leaky downstream gate valve.
- F. Valve quickly and repeatedly fouls following servicing.
   F. Debris in pipe line is too fine to be trapped by strainer.
- **G.** Winterization of backflow preventers.

#### **Solution**

- A.1 Install a soft seated check valve immediately upstream of the device. (Watts ¾" - 2" No. 601 bronze valve.)
- A.2 Install a soft seated check valve downstream of the device close as possible to the shutoff valve. (Watts <sup>3</sup>/<sub>4</sub>" - 2" No. 601 bronze valve.)
- B.1 Flush valve. If flushing does not resolve problem, disassemble valve and clean or replace the first check.
- **B.2** Clean or replace the relief valve seat.
- **B.3** Clean, grease or replace the piston O-ring.
- 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 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** If valve is disassembled during installation, caution must be exercised to install check springs in their proper location.
- **C.1** Clean strainer element or replace.
- **C.2** Install proper size device based upon flow requirements.
- Install valve in accordance with flow direction arrow.
- **E.1, E.2** Clean or replace gate valve with full port ball valves or resilient wedge shutoff valves.
- **F.** Install finer mesh strainer element in the strainer.
- G. Electric heat-tape wrap closely together around valve body. Build a small shelter around the valve with a large light bulb installed and left on at all times. 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.

# For Technical Assistance Call Your Authorized Watts Agent.

			Telephone #	Fax #
	HEADQUARTERS: Watts Regulator Company	815 Chestnut St., North Andover, MA 01845-6098 U.S.A.	978 688-1811	978 794-1848
North East	Vernon Bitzer Associates, Inc. Edwards, Platt & Deely, Inc. Edwards, Platt & Deely, Inc. J. B. O'Connor Company, Inc. The Joyce Agency, Inc. W. P. Haney Co., Inc. WMS Sales, Inc. (Main office)	980 Thomas Drive, Warminster, PA 18974 271 Royal Ave., Hawthorne, NJ 07506 368 Wyandanch Ave., North Babylon, NY 11703 P.O. Box 12927, Pittsburgh, PA 15241 8442 Alban Rd., Springfield, VA 22150 51 Norfolk Ave., South Easton, MA 02375 9580 County Rd., Clarence Center, NY 14032	973 427-2898 631 253-0600 724 745-5300 703 866-3111 508 238-2030	215 443-7573 973 427-4246 631 253-0303 724 745-7420 703 866-2332 508 238-8353 716 741-4810
South East	Billingsley & Associates, Inc. Billingsley & Associates, Inc. Francisco J. Ortiz & Co., Inc. Mid-America Marketing, Inc. Mid-America Marketing, Inc. Mid-America Marketing, Inc. RMI Smith & Stevenson Co., Inc. Spotswood Associates, Inc. Target Marketing Enterprises, Inc.	2728 Crestview Ave., Kenner, LA 70062-4989 478 Cheyenne Lane, Madison, MS 39110 Charlyn Industrial Pk., Road 190 KM1.9 - Lot #8, Carolina, Puerto Rico 00983 2776 B.M. Montgomery St., Birmingham, AL 35209 1364 Foster Avenue, Nashville, TN 37210 5466 Old Hwy. 78, Memphis, TN 38118 Glenfield Bus. Ctr., 2535 Mechanicsville Tpk., Richmond, VA 23223 4935 Chastain Ave., Charlotte, NC 28217 6235 Atlantic Blvd., Norcross, GA 30071 118 West Grant St., Building M, Orlando, FL 32806	615 259-9944 901 795-0045 804 643-7355 704 525-3388 770 447-1227	804 643-7380
South	Hugh M. Cunningham, Inc. Mack McClain & Associates Mack McClain & Associates, Inc. Mack McClain & Associates, Inc. Pro-Spec, Inc.	13755 Benchmark, Dallas, TX 75234 11132 South Towne Square, Suite 202, St. Louis, MO 63123 1537 Ohio St., Des Moines, IA 50314 15090 West 116th St., Olathe, KS 66062 P.O. Box 472226, Tulsa, OK 74147-2226	314 894-8188 515 288-0184 913 339-6677	972 888-3838 314 894-8388 515 288-5049 913 339-9518 918 461-0105
North Central	Aspinall Associates, Inc. Associated Independent Marketing Dave Watson Associates Disney-McLane-Woodcock, Inc. Disney-McLane-Woodcock, Inc. Mid-Continent Marketing Services Ltd.	6840 Hillsdale Court, Indianapolis, IN 46250 1606 Commerce Dr., Sun Prairie, WI 53590 1325 West Beecher, Adrian, MI 49221 428 McGregor Ave., Cincinnati, OH 45206 17610 S. Waterloo Rd., Cleveland, OH 44119 1724 Armitage Ct., Addison, IL 60101	800 542-1682 216 486-1010	
South	Delco Sales, Inc. Phoenix Marketing, Ltd. P I R Sales, Inc. Preferred Sales	1930 Raymer Ave., Fullerton, CA 92833 2416 Candelaria N.E., Albuquerque, NM 87107 3050 North San Marcos Place, Chandler, AZ 85225 31177 Wiegman Road, Hayward, CA 94544	505 883-7100 480 892-6000	714 888-2448 505 883-7101 480 892-6096 510 476-1595
North West	Delco Sales, Inc. Fanning & Associates, Inc. Hollabaugh Brothers & Associates Hollabaugh Brothers & Associates R. E. Fitzpatrick Sales, Inc. Soderholm & Associates, Inc.	111 Sand Island Access Rd., Unit I-10, Honolulu, HI 96819 6765 Franklin St., Denver, CO 80229-7111 6915 South 194th St., Kent, WA 98032 3028 S.E. 17th Ave., Portland, OR 97202 4109 West Nike Dr. (8250 South), West Jordan, UT 84088 7150 143rd Ave. N.W., Anoka, MN 55303	303 289-4191 253 867-5040 503 238-0313 801 282-0700	808 842-9625 303 286-9069 253 867-5055 503 235-2824 801 282-0600 763 427-5665
CANADA	Watts Industries (Canada) Inc. (Watts Regulator Co. Division) GTA Sales Team. Hydro-Mechanical Sales, Ltd. Hydro-Mechanical Sales, Ltd. Le Groupe B.G.T., Inc. Le Groupe B.G.T., Inc. Walmar Mechanical Sales Mar-Win Agencies, Ltd. Palser Enterprises, Ltd. Northern Mechanical Sales RAM Mechanical Marketing RAM Mechanical Marketing Con-Cur West Marketing, Inc. D.C. Sales, Ltd.	5435 North Service Road, Burlington, Ontario L7L 5H7 Greater Toronto Area 3700 Joseph Howe Dr., Ste. 1 Halifax, Nova Scotia B3L 4H7 297 Collishaw St., Ste. 7 (shipping) Moncton, New Brunswick E1C 9R2 85 Tolt Rd., St. Phillips, Newfoundland A1B 3M7 2800 Rue Dalton Ste. 3, Ste-Foy, Quebec G1P 3S4 140 Rue Merizzi, Ville St. Laurent, Quebec H4T 1S4 24 Gurdwara Rd., Nepean, Ontario K2E 8B5 1123 Empress St., Winnipeg, Manitoba R3E 3H1 1885 Blue Heron Dr., #4, London, Ontario N6H 5L9 P.O. Box 280 (mailing) 163 Pine St. (shipping), Garson, Ontario P3L 1S6 441 Quebec St., Regina, Saskatchewan S4R 1K8 2615-B Wentz Avenue, Saskatoon, Saskatchewan S7K 5J1 #109-42 Fawcett Rd., Coquitlam, British Columbia V3K 6X9 10-6130 4th St. S.E., Calgary, Alberta T2H 2A6 11420 142 Street, Edmonton, Alberta T5M 1V1	905 332-4090 888 208-8927 902 443-2274 506 859-1107 709 895-0090 418 657-2800 514 341-9010 613 225-9774 204 775-8194 519 471-9382 705 693-2715 306 525-1986 306 244-6622 604 540-5088 403 253-6808 780 496-9495	905 332-7068 888 479-2887 902 443-2275 506 859-2424 709 895-0091 418 657-2700 514 341-4464 613 225-0673 204 786-8016 519 471-1049 705 693-4394 306 525-0809 306 244-0807 604 540-5084 403 259-8331 780 496-9621
0306	<b>EXPORT Hdqtrs.:</b> Watts Regulator Co.	815 Chestnut St., North Andover, MA 01845-6098 U.S.A.	978 688-1811	978 794-1848



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