

Double Check Valve Assemblies & Double Check Detector Assemblies

Sizes: 8" – 12" (200-300mm)

- Installation
- Service
- Repair Kits
- Maintenance

For other repair kits and service parts, send for Ames Repair Parts Price List, PL-A-RP-BPD.

For technical assistance, contact your local Ames representative.

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.

Limited Warranty: Ames 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.

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



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Installation Instructions

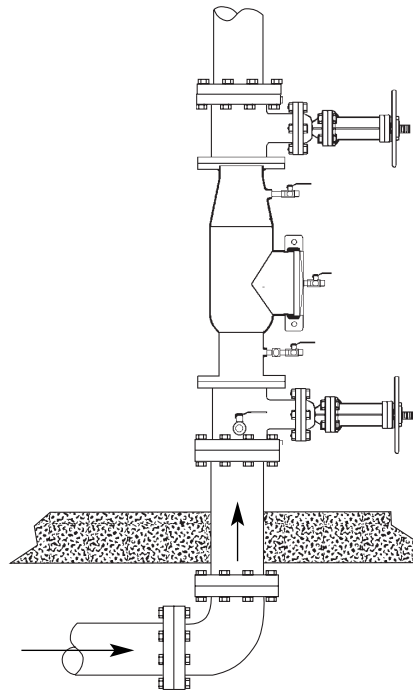
Please Read Prior to Installation:

1. Before installing any Ames assembly, **Flush the Line thoroughly** to remove all debris, chips and other foreign objects. Failure to do so may make the assembly inoperable.
2. The Ames 2000SS and 3000SS Backflow Preventers are approved by ASSE (American Society of Sanitation Engineers) to be installed in horizontal or vertical positions. **Local water authorities must approve all installation configurations.**
3. **Allow sufficient clearance around the installed assembly to conduct testing,** servicing, and inspection. Allow a minimum of 12" from the flood level to the bottom of the assembly.
4. **Be sure to contact local code authorities for proper installations.**
5. If installing on fire protection system, be sure to purge air from fire system. Fill system slowly with all inspectors test valves open.

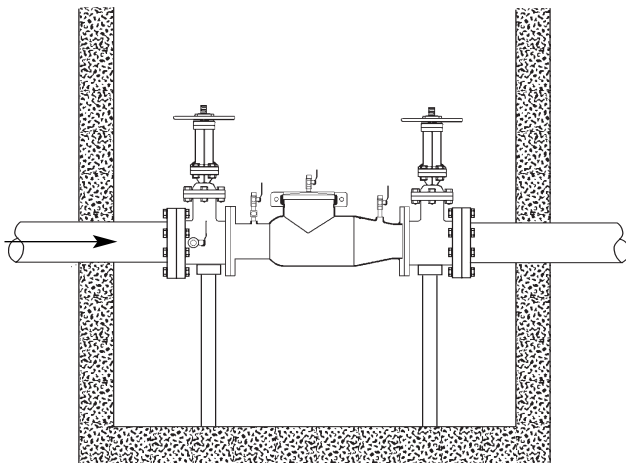
Installation note: The flange gasket bolts for the gate valves should be retightened during installation as the bolts may have loosened due to storage and shipping.

Attention Installer: After installation, please leave this Instruction Sheet for occupant's information.

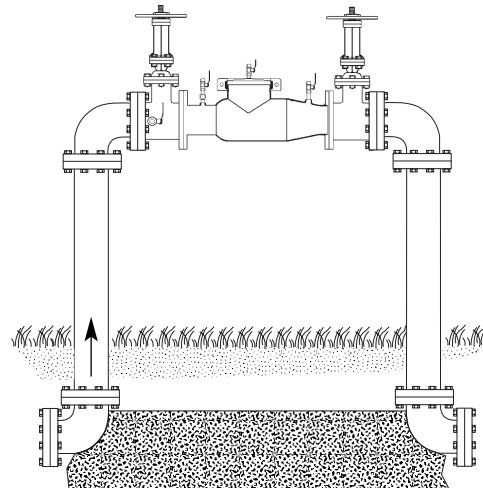
Vertical Installation ASSE



Indoor Installation



Outdoor Installation



Detailed Parts Listing

Parts Table #1			Ames Part No.		
Item #	Part Description	Qty	8"	10"	12"
1.	#1 Cam-Check	1	7015569	7015569	7015569
2.	#2 Cam-Check	1	7015569	7015569	7015569
3.	#1 Cam-Check O-ring	1	7011610	7011610	7011610
4.	#2 Cam-Check O-ring	1	7011610	7011610	7011610
5.	Ball Valve	4	A000449	A000449	A000449
6.	Cover Plate	1	7013495	7013495	7013495
7.	Groove Coupler	1	7018150	7018150	7018150
8.	Washer, shutoff disk	1	7013499	7013499	7013499
9.	Groove Coupler Gasket	1	7014806	7014806	7014806

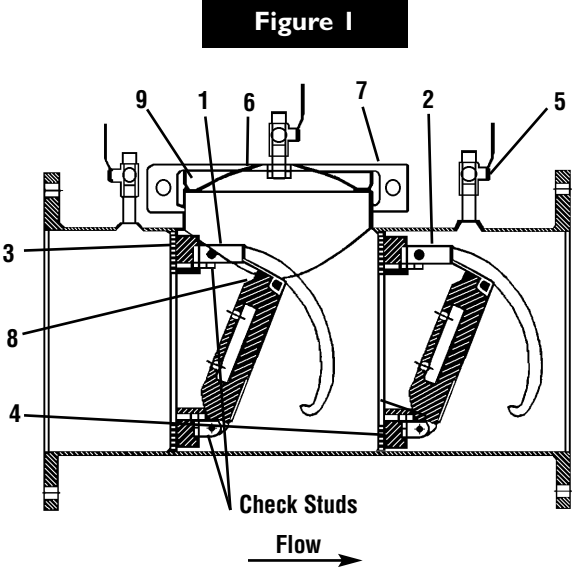


Figure 2

#1 Cam-Check

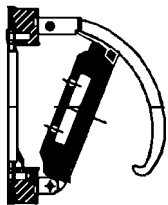


Figure 3

#2 Cam-Check DC

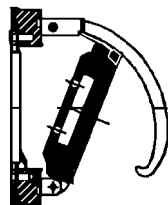
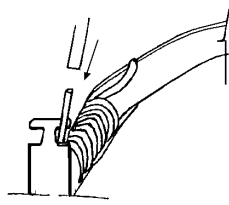


Figure 4



Maintenance Instructions

NOTE: Ames assemblies require minimum maintenance. All assemblies must be retested once maintenance has been performed. Before servicing be certain shutoff valves are closed.

Removing Cam-Checks

- Shut down water system and lock out system if possible. Slowly open all ball valves to relieve air and water pressure. Loosen bolts on groove coupler and remove groove coupler and cover plate from valve body.
- #1 CHECK (Fig. 2)**
Using a $\frac{9}{16}$ " socket wrench or nut driver, remove the four nuts from the #1 check studs (See fig.1). Using two hands, place them at 12 o'clock and 6 o'clock, wiggle the check assembly free. Remove through access port with back of clapper first with spring end down. Pull check assembly out of main body.
#2 CHECK (Fig. 3)
After loosening bolts with a $\frac{9}{16}$ " socket, remove bolts completely. Using the centerline access bar, spin the cam

- assembly from the 9 o'clock position to the 12 o'clock position, then (without letting go of the access bar) push the cam assembly slightly downstream so that the clapper is now parallel to the valve body. Now bring the cam assembly through the check retaining wall. Leave the cam assembly clapper parallel to the valve body. Pull the cam assembly through the access port.
- Using a $\frac{3}{8}$ " nut driver or a piece of small diameter pipe, place on the cam arm torsion spring and move away from and around the torsion spring retaining bracket so as to relieve the torsion spring tension. (See Figure 4.) This will allow the cam arm to move freely, enabling you to inspect the clapper face and cam seat. Thoroughly clean the seat area and clapper sealing surfaces, cam arms, and O-rings for damage, nicks, and debris. If damaged, install a new check assembly O-ring, or washer, shutoff disk.
- Before reinstallation of check assembly, thoroughly clean O-ring groove and lubricate O-ring with F.D.A. approved lubricant.

Testing — Double Check Valve Assembly

Test Check Valve No. 1

- Step 1: Ensure shutoff #1 is open, shutoff #2 is closed.
- Step 2: Connect high side hose to test cock #3, low side to test cock #2 and open both test cock #2 and test cock #3.
- Step 3: Open valve C, then open A to bleed air from the high side. Close valve A, then open B to bleed low side. Close valve B.
- Step 4: Connect vent hose loosely to test cock #1. Open valve A to vent air from vent hose. Tighten vent hose at test cock #1, open test cock #1.
- Step 5: Close shutoff #1. Slowly loosen hose at test cock #2 until differential gauge rises to 2psi and retighten hose. If the differential reading does not decrease, record check valves as “tight”.

Test Check Valve No. 2

- Step 1: Move the high side hose to test cock #4, low side to test cock #3 and open both test cock #3 and test cock #4. Remove vent hose from test cock #1, open shutoff #1.
- Step 2: Open valve C, then open valve A to bleed air from the high side. Close valve A, then open valve B to bleed low side. Close valve B.
- Step 3: Connect vent hose loosely to test cock #1. Open valve A to vent air from the vent hose. Tighten vent hose at test cock #1, open test cock #1.
- Step 4: Close shutoff #1, then slowly loosen hose at test cock #3 until differential gauge rises to 2psi and retighten hose. If the differential reading does not decrease, record check as tight. Remove all hoses and restore valve to original working condition.

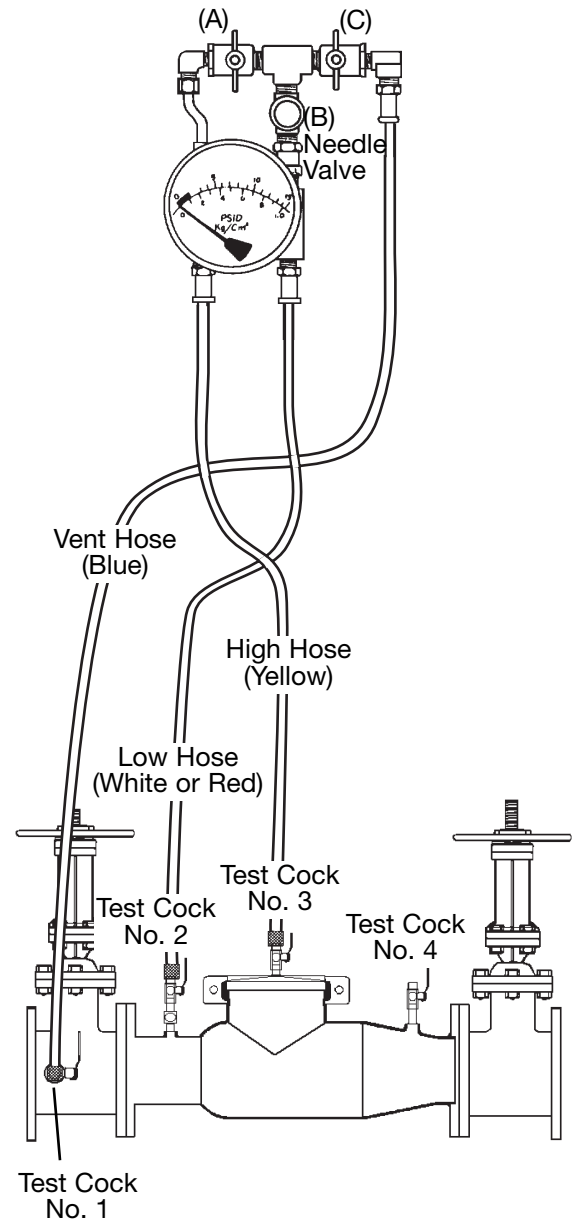
Note: The assembly will fail both the first and second check valve tests above, if shutoff #2 leaks excessively. To test for a leaky #2 shutoff, use the following procedure.

Test for Leaky No. 2 Shutoff

- Step 1: Connect the high side to test cock #1, low side to test cock #4. Open test cock #1 and test cock #4. Close shutoffs #1 and #2.
- Step 2: Close valve C. Open valve A, then open valve B ½ turn, loosen hose at test cock #4 to remove air. Retighten hose.
- Step 3: If the differential gauge rises above 0, there is excessive leakage at shutoff #2 and it must be replaced to test the assembly.

Note: Product information is subject to change without notice and supersedes all previous publications.

Ball Type Test Valves



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