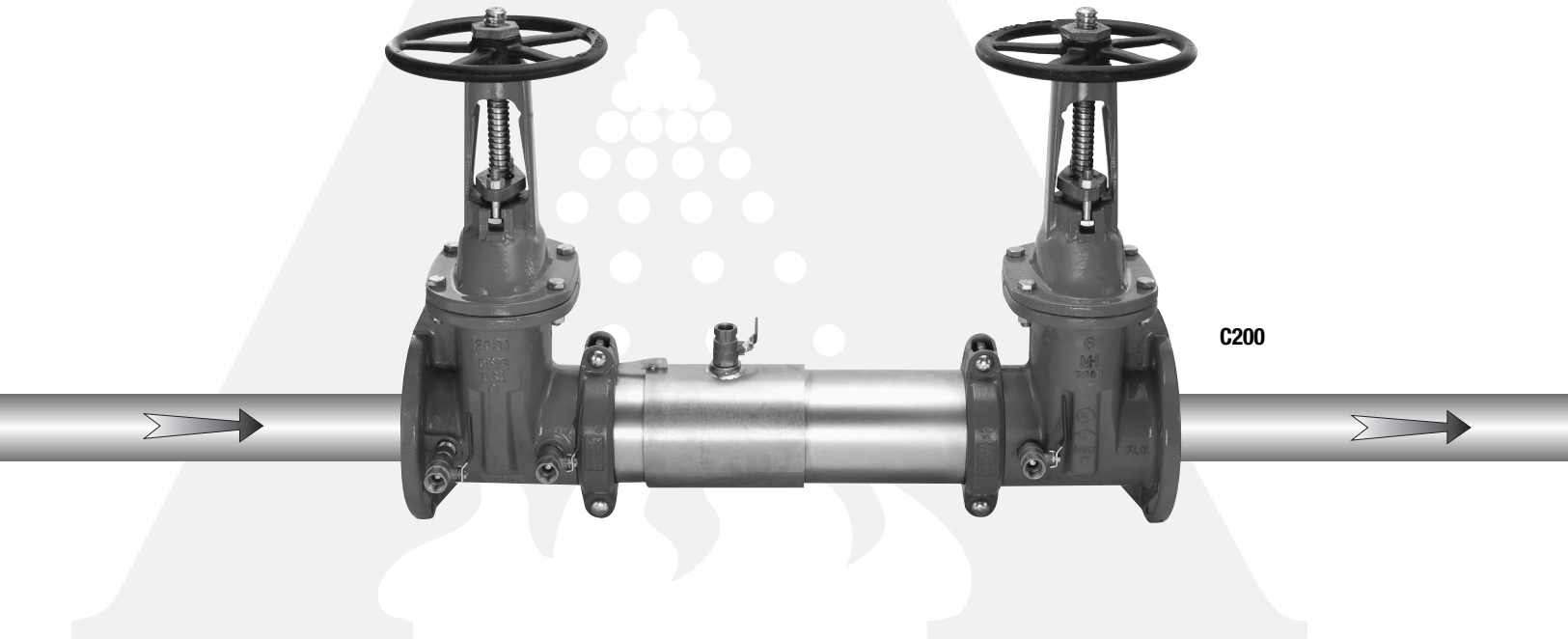


Colt™ Series C200



Double Check Valve Assemblies

Double Check Detector Assemblies

Sizes: 2½" – 10" (65 – 250mm)

- Installation
- Service
- Repair Kits
- Maintenance

Installation Note: Due to shipping, storage, and general handling, the Victaulic Coupling for the shutoff valves may have loosened and should be retightened during installation.

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.

It's 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 Fire & Waterworks (the "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.

THE WARRANTY SET FORTH HEREIN IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY THE COMPANY WITH RESPECT TO THE PRODUCT. THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE COMPANY HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The remedy described in the first paragraph of this warranty 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, improper installation or improper maintenance or alteration of the product.

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. **SO FAR AS IS CONSISTENT WITH APPLICABLE STATE LAW, ANY IMPLIED WARRANTIES THAT MAY NOT BE DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL SHIPMENT.**

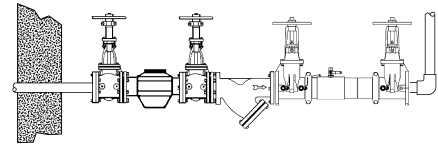
Basic Installation Instructions

Guidelines

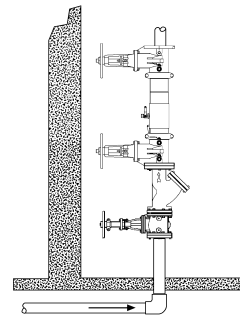
Most field problems occur because dirt and debris present in the system at the time of installation becomes trapped in the check valves. **The system should be flushed before the valve is installed.** If the system is not flushed until after the valve is installed, remove both check modules from the valve and open the inlet shutoff to allow water to flow for a sufficient time to flush debris from the water line. If debris in the water system continues to cause fouling, a strainer can be installed upstream of the backflow assembly.

The Series C200 may be installed in either horizontal or vertical position as long as the backflow assembly is installed in accordance with the direction of the flow arrow on the assembly and the local water authority approves the installation. The assembly should be installed with adequate clearance around the valve to allow for inspection, testing and servicing. 12" (300mm) should be the minimum clearance between the lower portion of the assembly and the floor or grade.

Note: Assembly body should not be painted.



Horizontal Installation



Vertical Installation

Maintenance Instructions 2 1/2" – 6" (65 – 150mm)

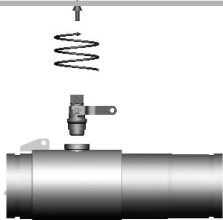


Figure A

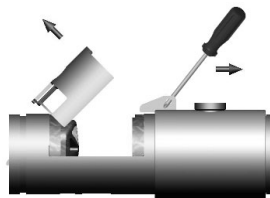


Figure B



Figure C

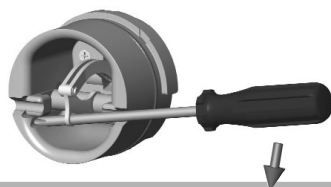


Figure D

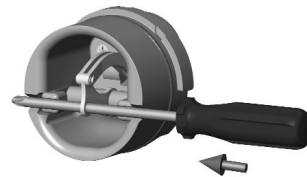


Figure E



Figure F

Instructions

Prior to servicing any Ames valve, it is mandatory to shut down the water system by closing both the inlet and outlet shutoff valves. After shutoff valves are closed, open test cock #2, #3 & #4 to relieve pressure within the backflow assembly.

1. After #3 test cock has been opened to relieve pressure, remove #3 test cock from housing. (Figure A)
2. Insert a #3 screwdriver through the hole on the top of the cover sleeve and using both hands rotate the cover sleeve approximately 1/4-turn clockwise and 1/4-turn counter-clockwise to break the sleeve O-ring seals. Using the screwdriver, slowly slide the cover sleeve to the downstream side of the housing. (Figure B)
3. Remove the stainless steel check retainer from the housing. (Figure B)
4. Remove the #1 check module (Figure C) by inserting two flat blade screwdrivers into the slots on either side of the check module and gently pry the check module toward the open zone.
5. Remove #2 check module with the same instructions as in #4 above. For servicing 6" (150mm) checks see 8" – 10" (200 – 250mm) instructions on p.3.
6. To clean or inspect either check module, insert a #3 screwdriver through the downstream side of the check module as shown in Figure D & E. When the screwdriver is in place, remove the "E"-clip (Figure F) and pin connecting the structural members and the check clapper will open with no tension.
7. Thoroughly clean the seating area. The sealing disc may be removed, if necessary, by removing the screws connecting the keeper plate to the clapper. The sealing disc may be reversed and reinstalled if the elastomer is cut or damaged.
8. Wash check module and O-ring and inspect for any damage. If damaged, reinstall new parts.
9. After thorough cleaning, lubricate O-ring w/FDA approved lubricant, replace pin and "E"-clip in structural members, remove screw driver and reinstall check modules and assemble housing in reverse order of these instructions.

Maintenance Instructions 8" – 10" (200 – 250mm)

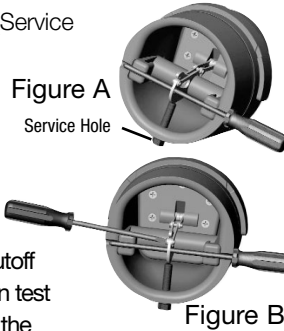
Material/Tool Requirements:

- #4 Phillips screwdriver or $\frac{3}{8}$ " diameter rod, length sufficient to span diameter of check, see Figures A and B.
- $\frac{1}{2}$ – 13" x 5" fully threaded hex bolt (Service bolt).
- $\frac{3}{4}$ " open end or socket wrench.

Instructions:

Prior to servicing any Ames valve, it is mandatory to shut down the water system by closing both the inlet and outlet shutoff valves. After shutoff valves are closed, open test cock #2, #3 & #4 to relieve pressure within the backflow assembly.

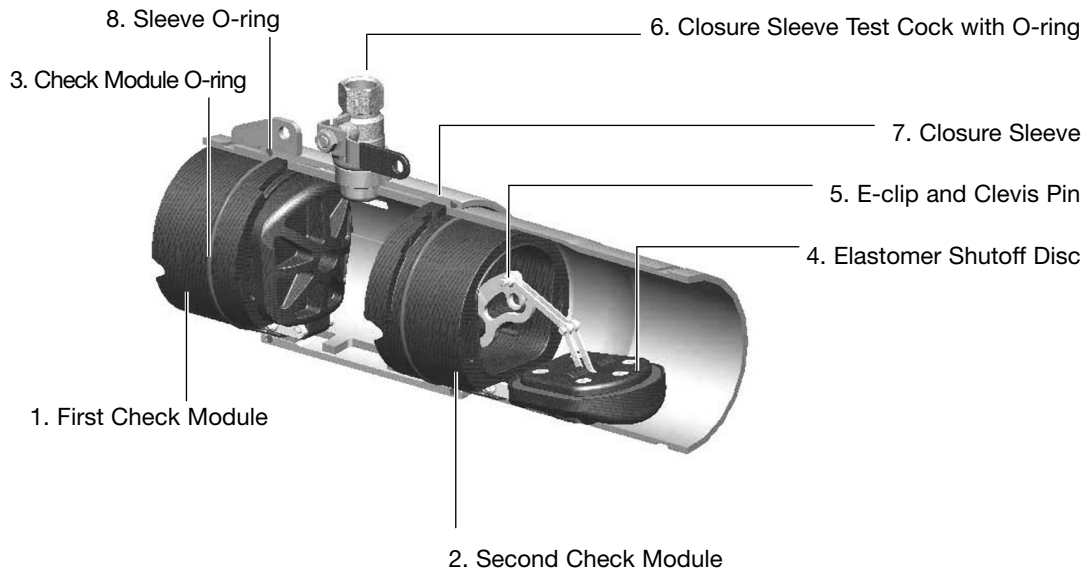
1. After #3 test cock has been opened to relieve pressure, remove #3 test cock from housing. When repairing an 8" or 10" (200 or 250mm) device, remove both Victaulic couplers from body. Slide the downstream Victaulic coupler gasket to the downstream side of the housing. The upstream Victaulic coupler gasket stays in place.



2. Remove checks to be maintained.
3. Locate the service hole and thread in the service bolt by hand until it contacts the linkage. (Figure A)
4. Continue to thread in service bolt with the wrench until the service hole in the linkage is aligned with the service notches on the spring arbors. (Figure A)
5. Insert the Phillips screwdriver through the arbors and service hole of the linkage making sure that the tip of the screwdriver extends past the ends of the arbors by a minimum of $\frac{1}{4}$ " (6mm). (Figure B)
6. Back out the service bolt until load is transferred to the screwdriver. Continue to back out the service bolt until sufficient clearance is achieved to remove the complete spring mechanism.
7. To disconnect linkage, remove retaining clip and pin (store in a safe location for reinstallation).
8. To remove spring mechanism, grasp the screwdriver at the center and pull complete assembly straight out and store in a safe place.
9. Reinstall in reverse.

WARNING – While the spring mechanism is removed for check servicing; never pull the screwdriver out or off the support notches on the arbors. Doing so may cause bodily injuries.

Replacement Parts Listing



ITEM NO.	PART DESCRIPTION	2 1/2" (65mm)	3" (80mm)	4" (100mm)	6" (150mm)	8" (200mm)	10" (250mm)
1	FIRST CHECK MODULE (RED SILICONE) ^a	7018111	7018111	7018111	7018114	7018117	7018399
2	SECOND CHECK MODULE (RED SILICONE)	7018113	7018113	7018113	7018116	7018119	7018400
3	CHECK MODULE O-RING	7017861	7017861	7017861	7017910	7013301	7018352
4	ELASTOMER SHUTOFF DISC (RED SILICONE)	7017855	7017855	7017855	7017903	7017928	7018348
5	GROOVED CLEVIS PIN KIT (CONTAINS: "E" CLIP & CLEVIS PIN) 5 PER PACK	7018126	7018126	7018126	7018127	7018127	7018412
6	CLOSURE SLEEVE TEST-COCK WITH O-RING #3	7018152	7018152	7018152	7018153	7018153	7018153
7	CLOSURE SLEEVE	7017880	7017880	7017880	7017882	7017884	7017886
8	SLEEVE O-RING or GASKET (2 REQ'D)	7017896	7017896	7017896	7017921	7017944	7018339
NS	CHECK REPAIR KIT (CONTAINS: O-RING, RED SILICONE SHUTOFF DISC & "E" CLIP)	7018123	7018123	7018123	7018124	7018125	7018414
NS	TEST COCK, .50 FPT X FPT WITH NIPPLE	7018394	7018394	7018394	N/A	N/A	N/A
NS	TEST COCK, .75 FPT X FPT WITH NIPPLE	N/A	N/A	N/A	7018395	7018395	7018395
NS	"E" CLIP	7017870	7017870	7017870	7017821	7017821	7017974
NS	GROOVE COUPLER (SHUTOFF)	7017994	7017995	7018147	7018148	7018149	7018070
NS	GROOVE COUPLER GASKET	7018882	7018883	7018884	7013248	7013308	N/A
NS	SLEEVE COUPLER ASSEMBLY	N/A	N/A	N/A	N/A	7018122	7018413
NS	O-RING, #3 TEST COCK	7017897	7017897	7017897	7017897	7017897	7017897
NS	STAINLESS STEEL CHECK RETAINER	7018408	7018408	7018408	7018409	7018410	7018411



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