



PREPARED BY



1. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AND MEET ALL REQUIREMENTS OF THE FOUNDATIONS CURRENT MANUAL OF CROSS-CONNECTION CONTROL AND NAC SECTION 445A.
2. THE DC MUST BE INSTALLED DIRECTLY AFTER THE METER OR SERVICE CONNECTION. ANY OTHER LOCATION, INCLUDING AN INTERIOR INSTALLATION, MUST BE APPROVED BY A SUN VALLEY G.I.D. CROSS-CONNECTION CONTROL DIVISION EMPLOYEE.
3. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE INSTALLED ACCORDING TO SUN VALLEY G.I.D.'S CROSS-CONNECTION CONTROL GUIDELINES.
4. FOR INTERIOR AND EXTERIOR INSTALLATIONS, THE DC MUST BE INSTALLED SO THAT NO PART OF THE DC WILL BE SUBMERGED DURING NORMAL OPERATION AND WEATHER. ADEQUATE DRAINAGE MUST BE PROVIDED BENEATH OR NEAR THE DC. CONTACT THE BACKFLOW ASSEMBLY MANUFACTURER FOR PROPER DRAIN SYSTEM AND SIZE.
5. THE DC MAY NOT BE INSTALLED IN A WALL, IN AN ATTIC, OR ABOVE A CEILING. THE DC MUST BE READILY ACCESSIBLE FOR TESTING, REPAIR, OR REMOVAL.
6. A THERMAL EXPANSION TANK MUST BE INCORPORATED INTO THE PLUMBING SYSTEM. INSTALLATION OF A BACKFLOW PREVENTION ASSEMBLY WILL PREVENT RELEASE OF ON-SITE PRESSURE TO THE UTILITY WATER MAINS.
7. ADEQUATE FREEZE PROTECTION IS REQUIRED FOR ALL BACKFLOW PREVENTION ASSEMBLIES INSTALLED ON DOMESTIC AND FIRE SERVICE LINES. BE ADVISED THE OWNER IS RESPONSIBLE TO REPLACE OR REPAIR THE ASSEMBLY IF IT IS DAMAGED AS A RESULT OF FREEZING.
8. THE DC MUST BE INSTALLED IN A HORIZONTAL OR VERTICAL RUN OF PIPE AS APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AND MEET ALL REQUIREMENTS OF THE FOUNDATIONS CURRENT MANUAL OF CROSS-CONNECTION CONTROL AND NAC SECTION 445A.
9. THE DC MUST BE INSTALLED IN-LINE AND BE THE SAME SIZE AS THE SUPPLY AND DISCHARGE PIPING.
10. NO OUTLET, TEE, TAP, HOSE BIB, CONNECTION TO OR FROM A SERVICE LINE, OR STOP AND WASTE VALVE IS ALLOWED BETWEEN THE METER (OR SERVICE CONNECTION) AND THE DC UNLESS IN THE CASE OF A RESIDENTIAL FIRE SPRINKLER SYSTEM INSTALLED PER SV-23.
11. ALL BELOW GRADE 1" AND 3/4" DC DEVICES WILL BE INSTALLED IN A MUELLER SINGLE METER PIT WITH INSULATION PAD AND LID AND INCLUDE THE FOLLOWING BRASS FITTINGS: 2-ST 90°, 2-COULPERS, 2-CLOSE NIPPLES, 1-4" NIPPLE, 1-UNION. DEVICE SHALL BE INSTALLED WITH A MAXIMUM CLEARANCE 8" FROM FINISH GRADE TO THE TOP OF THE DEVICE.
12. ALL DC DEVICES LARGER THAN 1" INSTALLED IN A VAULT MUST COMPLY WITH THE FOLLOWING CLEARANCES: MINIMUM 12" HORIZONTAL CLEARANCE TO NON-OPERATIONAL SIDE (SIDE WITH NO TEST COCKS) OF THE DC. MINIMUM 30" OF CLEARANCE TO OPERATIONAL SIDE (SIDE WITH TEST COCKS) OF THE DC. MINIMUM 12" AND MAXIMUM 36" VERTICAL CLEARANCE BELOW THE DC AS MEASURED FROM THE BOTTOM OF THE DEVICE.
13. THOROUGHLY FLUSH THE LINES BEFORE INSTALLING THE DC.
14. THE DC SHALL NOT BE INSTALLED IN AN AREA WHERE CORROSIVE FUMES OR GASES COULD RENDER THE ASSEMBLY INOPERATIVE.
15. BEFORE A WATER METER WILL BE SET AND WATER SERVICE IS GRANTED, A SUN VALLEY G.I.D. CROSS-CONNECTION CONTROL EMPLOYEE MUST INSPECT THE INSTALLATION OF THE BACKFLOW ASSEMBLIES BETWEEN THE METER (OR SERVICE CONNECTION) AND THE BACKFLOW ASSEMBLY, BEFORE THE TRENCH IS BACKFILLED. PLEASE CALL 48 HOURS IN ADVANCE TO SET AN APPOINTMENT.
16. THE DC MUST BE TESTED BY A SUN VALLEY G.I.D. CROSS-CONNECTION CONTROL EMPLOYEE AT THE TIME OF INSTALLATION, AND YEARLY THEREAFTER. ANY REPAIRS NEEDED TO THE DC ARE THE OWNER'S RESPONSIBILITY. COPIES OF ALL TEST RESULTS FOR DOMESTIC, IRRIGATION, AND FIRE BACKFLOW PREVENTION ASSEMBLIES WILL BE GIVEN TO THE OWNER OF THE BACKFLOW DEVICE AND A COPY RETAINED IN THE FILE.

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**DOUBLE CHECK VALVE BACKFLOW  
PREVENTION ASSEMBLY (DC) NOTES**

TYPICAL INSTALLATION

DRAWING  
**SV-15**

REVISED  
04/17/23