



NOTES:
 1. THE INSTALLER HAS THE OPTION TO INSTALL THE GATE OR BALL VALVES AND THE PRESSURE REDUCING VALVE INSIDE OF THE ENCLOSURE, HOWEVER TO PREVENT OBSTRUCTION DURING THE TESTING OR REPAIR OF THE ASSEMBLY IT IS RECOMMENDED THAT THE GATE OR BALL VALVES AND THE PRESSURE REDUCING VALVE BE INSTALLED OUTSIDE THE ENCLOSURE.



REQUIREMENTS FOR INSTALLATION OF REDUCED PRESSURE PRINCIPAL (RP) AND DOUBLE CHECK VALVE (DCVA) ASSEMBLIES

1. Installation of backflow prevention assemblies shall be performed by a North Carolina Licensed Plumber.
2. The backflow prevention assembly must be installed on the Consumer's property beyond the point of delivery (the Authority water meter) in a location that is not subject to excessive storm water run-off or ponding and maintains adequate clearance around the assembly for testing, maintenance and/or repair.
3. The installation of wyes, tees or bypasses between the Authority water meter and the assembly is strictly prohibited.
4. Placement of backflow prevention assemblies within NCDOT Right-of-Way will not be accepted.
5. Landscaping is permitted around an assembly provided it does not prevent physical access to the assembly for testing, maintenance and/or repair.
6. All reduced pressure principle assemblies (RP) must be installed in a horizontal position. Double check valve assemblies (DCVA) may be installed in a vertical position provided the flow of water is in an upward direction or the assembly has been USC approved for vertical installation.
7. All backflow prevention assemblies must be installed above ground and set a minimum of 12" from the valve vent to finished grade (RP type) or 12" from the bottom of the valve to finished grade (DCVA type), and no higher than 30" above finished grade.
8. Installation of backflow prevention assemblies within a structure is permitted, however they must be set a minimum of 12" from the valve vent to the floor (RP type) or 12" from the bottom of the valve to the floor (DCVA type), and no higher than 30" above the floor. For an RP installation, an air gap drain must be installed per the North Carolina Plumbing Code requirements.
9. Backflow prevention assemblies 2-1/2" or larger must be supported to allow for the weight of the backflow prevention assembly. Support shall be provided by pipe stands (no blocks or bricks) and must rest on a footing. Supports shall be spaced so they do not cause interference with the testing and/or repair of the assemblies.
10. Outdoor installations must include a protective enclosure that meets or exceeds North Carolina Plumbing Code standards and have an ASSE 1060 approval plate. Enclosures shall have a hinged door or drain ports and be capable of being mounted securely to the ground. If an enclosure is not removable it must have doors large enough to access the assembly for testing, maintenance and/or repair. Additional methods of weatherization (insulation baskets and/or heat tape) to prevent freeze damage are strongly recommended.
11. All piping must be of ductile iron, PVC, copper or brass.
12. ALL BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS MUST BE INSPECTED AND APPROVED BY THE AUTHORITY PRIOR TO INITIAL CONNECTION TO THE PUBLIC POTABLE WATER SYSTEM.

Note: Appendices within these regulations are subject to change periodically or as required by the State of North Carolina.



Onslow Water & Sewer Authority

USE WITH "ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision"

Installation Requirements for RP / DCVA / PRV Assembly

SCALE: Not To Scale	DETAIL # WS_PRV
REVISION DATE: February, 2018	SHEET #: 1 of 1