



CITY OF ROSWELL
 DEPARTMENT OF PUBLIC WORKS
 BACKFLOW – PREVENTION
 “A community environmental
 Health protection program

MAXIMUM PROTECTION REQUIREMENT
COMMERCIAL/ESIDENTIAL NEW CONSTRUCTION AND RETROFIT INSTALLATION
(HAZARDOUS)

SERVICE METER SIZES: ¾-INCH THROUGH 2 INCH

REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER (BFP)

SPECIFICATIONS: The **CUSTOMER/OWNER** shall furnish and have installed a **Reduced Pressure Zone (RPZ) Backflow Preventer (BFP) Assembly** in a size to match that of the required meter and/or service piping. The RPZ-BFP assembly shall include a full-port ball valve on the inlet and outlet sides and a union or swivel coupling nut between the device and each valve. Unions or swivel coupling nuts to be integral with the devices or valves. The device shall have three ball valve test cocks in the vertical position fitted with **brass or plastic threaded plugs**. A fourth test cock shall be provided on the upstream side of the inlet shut-off valve. **Any device installed inside (isolation/containment purposes) shall have a bronze strainer immediately upstream of the RPZ-BFP assembly.** All interior/exterior components of the assembly shall be equal in corrosion resistance to bronze or stainless steel, to resist electrolysis. Access to both checking devices shall be made readily accessible (no more than 4’0” from centerline of device to top of grade/floor. **All** assemblies shall have replaceable seats and accessible top/side entry.

NOTE: The RPZ-BFP assembly shall be certified by a nationally recognized testing laboratory in accordance with ASSE Standard 1013 and the bear the ASSE seal. The RPZ-BFP assembly shall have current approval from the University of Southern California Foundation for Cross-connection Control (USC-FCCC). The RPZ-BFP Assembly shall be individually factory tested, shipped, and installed as a unit.

INSTALLATIONS INSTRUCTIONS: The RPZ-BFP assembly shall not be buried in earth, or in any location subject to flooding, but installed in an Insulated Enclosure above ground and adjacent to, or as close as practical to, the outlet side of the meter installed and shall be installed in a horizontal position only. Where relief valve discharge could cause water damage (**isolation/containment installation**) an approved drain with air gap attached to the RPZ-BFP device, shall be installed and piped to a positive gravity drain. Exterior RPZ-BFP assembly installations shall be housed in an insulated and heated enclosure to prevent freezing.

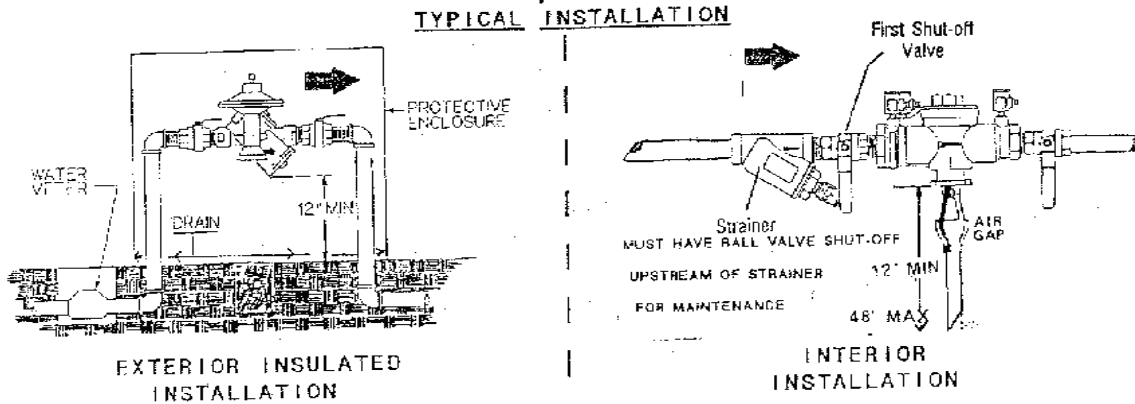
NOTE: Under **No** condition will any connection be allowed between the service meter and a RPZ-BFP assembly used for system containment.

APPROVED INSULATED ENCLOSURES: Hot Box/Rox or Hydrocowl. Model number to be determined by BFP size.

(OR APPROVED EQUAL)

*******IMPORTANT: See Instructions and Illustration. Over>>>>>>**

See THERMAL EXPANSION WARNING AND DEVICE TEST PROCEDURES – Over>>>



APPROVED ASSEMBLIES: Hersey FRP II w/unions & "T" handles: Watts U-009QT-Z3: Wilkins 975 XLUS: Flowmatic B9200: Conbraco 40-200-02 series;

NOTE: 1-1/4" assemblies are not allowed to be installed.

NOTE: For final approval assembly must be centered in enclosure.

*****SPECIAL CAUTION*****

THERMAL EXPANSION: When water is heated and stored in a consumer's water system, or a branch of the system, that has been closed by the installation of a backflow preventer or any other checking device; an auxiliary relief valve, or expansion chamber, shall be installed to limit Thermal Expansion of the water being to not than 80 psi static (no flow) pressure at any fixture on the system.

*****IMPORTANT*****

ASSEMBLY TESTING: All Reduced Pressure Zone (RPZ-BFP) assemblies shall be tested at time of installation, and at least SEMIANNUALLY_ THEREAFTER, by an approved Certified Tester.

A copy of all Test and Maintenance Reports must be submitted to:

City of Roswell
 Department of Public Works
 Backflow-Prevention Unit
 38 Hill Street, Suite 235
 Roswell, Georgia 30075

Test Forms and Certified Tester List may be obtained from:

Department of Public Works
BACKFLOW-PREVENTION UNIT
 Phone: 770-641-3715