The following specification text has been prepared by MIFAB to assist design professionals in the preparation of a specification to backflow preventers.

Utilize these paragraphs to insert text into Specification **Section 22 11 19 – Domestic Water Piping Specialties** or similarly titled section governing this work.

The following should be noted in using this document:

Optional text requiring a selection by the user is enclosed within brackets and as [Red.] text.

Items requiring user input are enclosed within brackets and as red text, e.g.: "[2] [\_\_] years."

For assistance on the use of the products in this section, contact MIFAB by calling 1-800-465-2736 or visit their website [www.mifab.com](http://www.mifab.com)

PART 1 – GENERAL

SUBMITTALS

Action Submittals:

Product Data: Manufacturer’s product data sheets with descriptive, product attributes, including optional variations required, and indications of certifications/listings.

Test Results: Signed and dated backflow preventer operation test results as specified in Part 3 of this Section.

QUALITY ASSURANCE

Retain the first paragraph to specify minimum requirements for backflow preventers.

Then select either reduced pressure type or double check valve type, or both as required for the project.

Backflow preventers are to be The International Association of Plumbing and Mechanical Officials certified, lead free certified, and in accordance with CSA B64 Series, Backflow Preventers and Vacuum Breakers.

[Reduced pressure principle backflow preventers are to be in accordance with requirements of ASSE 1013, Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers, and AWWA C511, Standard for Reduced Pressure Principle Backflow Preventer Assembly.]

\*\*\*OR\*\*\*

[Double check valve backflow preventers are to be in accordance with requirements of ASSE 1015, Performance Requirements for Double Check Valve Backflow Preventers and Double Check Valve Fire Protection Backflow Preventer Assemblies, and AWWA C510, Double Check Valve Backflow Preventer Assembly.]

PART 2 – PRODUCTS

DOUBLE CHECK VALVE BACKFLOW PREVENTERS

Select either reduced pressure type backflow preventers or double check valve type, or both as required for the project.

MIFAB “BEECO” FDC Series 175 psi working pressure rated double check valve backflow preventers, sized as indicated, inline serviceable, each equipped with 2 repairable and accessible positive seating check valves with captured springs and rubber seat discs, 4 test cocks, and inlet and outlet shut-off valves.

[Backflow preventers ½” to and including 2” are to be complete with bronze bodies, ANSI B120.1 NPT pipe connections, and ball type shut-off valves.]

[Backflow preventer 2½” and larger are to be complete with baked powder epoxy coated ductile iron bodies, flanged or grooved end pipe connections to suit the connecting pipe, and rising stem OS&Y shut-off valves.]

REDUCED PRESSURE ZONE BACKFLOW PREVENTERS

Select either reduced pressure type backflow preventers or double check valve type, or both as required for the project.

MIFAB “BEECO” FRP Series 175 psi working pressure rated reduced pressure zone backflow preventers, sized as indicated, inline serviceable, each equipped with 2 repairable and accessible positive seating check valves with captured springs and rubber seat discs, a replaceable relief valve, 4 test cocks, inlet and outlet shut-off valves, and a minimum of 51% USA produced material.

[Backflow preventers ½” to and including 2” are to be complete with bronze bodies, ANSI B120.1 NPT pipe connections, and ¼ turn ball type shut-off valves.]

\*\*\*OR\*\*\*

[Backflow preventers 2½” and larger are to be complete with baked powder epoxy coated ductile iron bodies, flanged or grooved end pipe connections to suit the connecting pipe, and rising stem OS&Y shut-off valves.]

PART 3 – EXECUTION

INSTALLATION OF BACKFLOW PREVENTERS

Provide backflow preventers where shown on the drawings, including in each direct domestic cold water connection to equipment other than plumbing fixtures and fittings, and specialties equipped with vacuum breakers.

Locate each backflow preventer in horizontal piping on a wall between 48" and 60" above the floor such that it is easily accessible for maintenance and testing. Conform exact locations prior to roughing-in.

Equip each reduced pressure zone backflow preventer with an air gap fitting and pipe the reduced pressure zone water outlet to drain.

Test each backflow preventer for proper operation in accordance with requirements of governing Codes/Regulations by a licensed and certified tester and submit signed and dated test results with the testers name and qualifications, and a properly and clearly identified and marked inspection and test record card for each backflow preventer.