SECTION 400567.29 - HOSE CONNECTION VACUUM BREAKER BACKFLOW PREVENTERS

Note that this section has only been edited for NYSOGS standardization and has not been technically edited. The designer shall make all technical edits specific to the project for this section.

This Section specifies hose connection vacuum breaker backflow preventers. Hose connection vacuum breakers allow portable hoses to be attached to hose-threaded bibbs and prevent reverse flow of potentially polluted water due to back-siphoning.

1. GENERAL
   * + 1. SUMMARY
          1. Section Includes: Hose connection vacuum breakers.
          2. Related Requirements:

List other Sections directly related to or affecting Work of this Section. Include Sections specifying information expected to be found in this Section as well as Sections required to describe complete system or assembly requirements.

Section 402319 - Non-Potable Plant Water Process Piping: Piping systems transporting plant (non-potable) water.

Section 402329 - Recirculated Water Process Piping: Piping systems transporting recirculated water.

Section 402340 - Sanitary Wastewater Process Piping: Piping systems transporting wastewater.

* + - 1. REFERENCE STANDARDS

List reference standards included within text of this Section, with designations, numbers, and complete document titles.

* + - * 1. ASSE International:

ASSE 1019 - Performance Requirements for Wall Hydrant with Backflow Protection and Freeze Resistance.

* + - 1. COORDINATION
         1. Coordinate Work of this Section with installation of process piping.
      2. SUBMITTALS

Only request submittals needed to verify compliance with Project requirements.

* + - * 1. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the

General Conditions.

* + - * 1. Manufacturer’s installation instructions shall be provided along with product data.
        2. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
        3. Product Data: Submit manufacturer catalog information.
        4. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

Include separate Paragraphs for additional certifications.

* + - * 1. Manufacturer Instructions: Submit special procedures and setting dimensions.
        2. Qualifications Statement:

Coordinate following Subparagraph with requirements specified in QUALIFICATIONS Article.

Submit qualifications for manufacturer.

* + - 1. QUALITY ASSURANCE

Include this Article to specify compliance with overall reference standards affecting products and installation included in this Section.

In following Paragraph insert "State of New York Department of Transportation," "Municipality of \_\_\_\_\_\_\_\_ Department of Public Works," or other agency as appropriate.

* + - * 1. Perform Work according to <**\_\_\_\_\_\_\_\_**> standards.

Include following Paragraph only when cost of acquiring specified standards is justified.

* + - * 1. Maintain <**\_\_\_\_\_\_\_\_**> [**copy**] [**copies**] of each standard affecting Work of this Section on Site.
      1. QUALIFICATIONS

Coordinate following Paragraph with requirements specified in SUBMITTALS Article.

* + - * 1. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum [**three**] <**\_\_\_\_\_\_\_\_**> years' [**documented**] experience.
      1. DELIVERY, STORAGE, AND HANDLING
         1. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.
         2. Store materials according to manufacturer instructions.
         3. Protection:

Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.

Furnish temporary end caps and closures on piping and fittings and maintain in place until installation.

Provide additional protection according to manufacturer instructions.

* + - 1. WARRANTY

This Article extends warranty period beyond one year. Extended warranties may increase construction costs and Owner enforcement responsibilities. Specify warranties with caution.

* + - * 1. Furnish [**five**] <**\_\_\_\_\_\_\_\_**>-year manufacturer's warranty for hose connection vacuum breaker backflow preventers.

1. PRODUCTS
   * + 1. HOSE CONNECTION VACUUM BREAKERS
          1. [Manufacturers](http://www.specagent.com/LookUp/?ulid=12690&mf=04&src=wd):

designer to provide two manufacturers and approved equivalent for all listed products.

\*\*\*\*\*\* [OR] \*\*\*\*\*\*

In following Subparagraph insert "State of New York Department of Transportation," "Municipality of \_\_\_\_\_\_\_\_ Department of Public Works," or other agency as appropriate.

Furnish materials according to <**\_\_\_\_\_\_\_\_**> standards.

Insert descriptive specifications below to identify Project requirements and to eliminate conflicts with products specified above.

* + - * 1. Description:

Comply with ASSE 1019.

Nonremovable.

Size: 3/4 inch

Flow Capacity: <**\_\_\_\_\_\_\_\_**> gpm at <**\_\_\_\_\_\_\_\_**> psig supply pressure.

Maximum Operating Pressure: [**125**] <**\_\_\_\_\_\_\_\_**> psig

* + - * 1. Materials:

Body: [**Nickel-plated**] brass.

Wetted Parts: Stainless steel.

Diaphragm and Disc: Rubber.

* + - * 1. Accessories:

[**Manual drain.**]

[**Thermoplastic construction.**]

1. EXECUTION
   * + 1. PREPARATION
          1. Thoroughly clean end connections before installation.
          2. Cleaning: Clean surfaces to remove foreign substances.
       2. INSTALLATION
          1. According to manufacturer instructions and local code requirements.

\*\*\*\*\*\* [OR] \*\*\*\*\*\*

In following Paragraph insert "State of New York Department of Transportation," "Municipality of \_\_\_\_\_\_\_\_ Department of Public Works," or other agency as appropriate.

* + - * 1. Installation Standards: Install Work according to <**\_\_\_\_\_\_\_\_**> standards.

END OF SECTION 400567.29