

To Whom It May Concern:

The South Dakota Clean Water SRF program is officially submitting this waiver request on behalf of the loan recipient, Kennebec, SD, for review by EPA. Attached is an AIS waiver request letter from the contractor and supplier for the Kennebec, SD project (CWSRF loan number C461283-01). This request is being submitted for small diameter stainless steel plug valves and valve check assemblies with a specification that the port size of the valves and valve checks must be 100% and is based on no domestic manufacturers are available to meet the project specifications. Along with the waiver request from the contractor and supplier additional documentation is attached including the specifications for the check valve assembly and plug valves, and correspondence from suppliers and the contractor indicating that there are no domestic manufacturers of the products.

Below are the quantities for each size and type of valve.

1.25" Valve/Check Assembly (11 Each)

1.5" Plug Valve (6 Each)

2" Plug Valve (6 Each)

If additional information is needed or there are questions, please contact me.

Thank you,

Andy Bruels, P.E.
Engineering Manager
Water & Waste Funding Program

NOTE: Some of the referenced attachments with project diagrams, schedules, and supplier correspondence may be in formats that do not meet the Federal accessibility requirements for publication on the Agency's website and if so, may have been omitted from this waiver publication. They are available upon request by emailing SRF_AIS@epa.gov

- D. The manufacturer shall provide a warranty on materials and workmanship on the stainless steel valve/check assembly for a period of 2 years after receipt of shipment. The Owner will return any equipment found defective to the manufacturer for inspection and validation of the defect. Defective equipment will be repaired or replaced at manufacturer's discretion and shipped back to Owner at no charge. Costs to remove, replace and ship said defective equipment shall be the Contractor's responsibly during the one-year warranty period.

PART 2 PRODUCTS

2.01 PLUG VALVE

- A. Plug Valves shall be quarter-turn, non-lubricated, eccentric type with resilient faced plug. The valves shall be designed, manufactured and tested in accordance with American Water Works Association Standards ANSI/AWWA C517.
- B. The valve plug shall be constructed of ductile iron. The plug shall have cylindrical seating surface that is offset from the center of the plug shafts. The plug shafts shall be integral. The entire plug shall be 100% encapsulated with Buna-N rubber in all valve sizes.
- C. The valve body shall be constructed of ASTM A536 ductile iron. Valves shall be provided with threaded connections.
- D. Port areas of not less than 100% of pipe area shall be supplied on valves 4" (100 mm) and smaller, 85% on 16" (400 mm) and smaller, 80% on 18"-24" (150 mm - 600 mm), and 75% on 30" (800 mm) and larger.
- F. Plug valve shaft seals shall be on the multiple V-ring type and shall be adjustable. All packing shall be replaceable without removing the bonnet or actuator and while the valve is in service. Shaft seals shall be made of Buna-N.
- G. Valves shall be provided with gear box operators with 2" square nuts. The nut actuator shall be compatible for valve box mounting. Actuators shall be packed with grease and sealed for temporary submergence to 20 feet of water.
- H. Plug Valves shall be PEF by Sartel Valves; Series 5900R by Val-Matic Valve & Mfg. Corporation, Millcentric Eccentric plug valve by Milliken, or approved equal.

2.02 VALVE/CHECK ASSEMBLY

- A. The valve/check assemblies shall consist of two compression fittings and a combination curb stop/check valve assembly. The curb stop/check valve assembly shall be 304 stainless steel and have a two-piece cast 304 stainless steel housing. All plastic compression fittings are to be molded from polypropylene and shall be tested for resistance to aging, pressure rating, tensile strength, and flexural strength. The assembly shall be rated for 150 psi service. The assembly shall be provided by Environment One Corporation, Niskayuna, New York, or approved equal.
- B. The assembly shall be pressure-tight in both directions. The ball valve actuator shall include position stop features at the fully opened and closed positions. The assembly shall be designed to withstand a working pressure of 235 psi.
- C. The stainless steel check valve shall be integral with the stop valve. The check valve will provide a full-ported 1-1/4" passageway and shall introduce minimal friction loss at maximum rated flow.

The flapper hinge design shall provide a maximum degree of freedom and ensure seating at low back pressure.

2.03 VALVE BOXES

- A. Valve boxes shall be cast iron, 5-1/4" minimum inside diameter, adjustable valve boxes of the screw type with sufficient length for the pipe bury as shown.
- B. Covers for wastewater piping shall have the word "SEWER" cast on the top.
- C. Valve boxes and covers shall be as manufactured by the approved valve manufacturer; Tyler Pipe Utilities Division, Tyler, Texas; Mueller Co., Decatur, Illinois; Clow Corporation, Oak Brook, Illinois; or approved equal.

2.04 POLY WRAP

- A. Low density polyethylene encasement material shall have a minimum thickness of not less than 8 mils. The polyethylene material shall be marked and installed according to AWWA C105-99 or latest revision thereto.
- B. All ferrous materials including valves, pipe, and valve boxes shall be wrapped with polyethylene material conforming to the requirements as specified herein.

PART 3 EXECUTION

3.01 VALVE INSTALLATION

- A. All valves shall be installed in locations as shown on the plans or as directed by the Owner's Resident Project representative.
- B. The valve and joints shall be installed in accordance with the manufacturer's recommendations.
- C. Backfilling and compaction shall be completed in accordance with Section 02224. Borrowed granular fill shall be used to backfill to the top of the valve/check assembly. Refer to Section 02730 for granular fill requirements.

3.02 VALVE BOX INSTALLATION

- A. All foreign material and debris shall be removed from the top of the valve operator prior to setting the valve box.
- B. Valve boxes shall be centered and plumb over the operating nut of the valve and shall be set so that no shock or stress will be transmitted to the valve.
- C. Tops of the valve boxes shall be set flush with the valve identification collar unless otherwise directed.

* * * END OF SECTION * * *