

CCI

Carr & Collier Inc.

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Dear Mahnaz Massoudi,

On behalf of the City of Mt. Dora, we are requesting a project-specific waiver pursuant to the American Iron and Steel requirements for the use of 38 non-ais compliant mechanical joint plug valves. This project calls for 53-2" plug valves, we have 15 of the 2" AIS compliant valves on order from Henry-Pratt at this time, but we were just advised by the manufacturer the remaining 38 of the 53 valves needed have a lead time of 16 weeks or 112 days.

We have been advised by Fortiline Waterworks at 2291 W Airport Blvd, Sanford, FL 32771 and Ferguson Waterworks at 801 Thorpe Rd, Orlando, FL 32824, that the plug valves by the 3 primary manufacturers Henry-Pratt, Val-Matic and Dezurik will take approx. 112 days to be built and shipped after the approved submittals.

Attached is the order invoice (\$191.76 ea) and specifications from Mueller-Henry-Pratt AIS MJ Plug Valves. The delivery time is 16 weeks on the remaining 38 plug valves on this option. The pricing for the non-AIS 2" plug valves would be \$159.15 each.

This project has a very tight window of time for completion as the Florida Department of Transportation has the Wekiva Parkway phases 3B and 3A scheduled to begin in September 2017, it is imperative that we finish this project for the City of Mt Dora prior to FDOT's Wekiva Parkway project to avoid any delay claims. Based on this information, we are requesting the AIS requirements be waived for the specified plug valves.

Thank You,



Craig Schneiderman-Project Manager

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**SECTION 15117
PLUG VALVES**

PART 1 - GENERAL

1.01 SCOPE OF WORK

- A. Scope of Work: Furnish and install plus valves of the type(s) and size(s) and in the location(s) shown on the Drawings and as specified herein. All valves shown on the Drawings shall be plug valves unless specifically called otherwise on the Drawings.
- B. General Design:
 - 1. Comply with the requirements of Section 15100.
 - 2. All valves shall be 100% full port eccentric plug valves.

1.02 QUALITY ASSURANCE

- A. Qualifications: See Section 15100.
- B. Standards:
 - 1. See Section 15100.
 - 2. Plug valves shall be tested in accordance with AWWA C504. Leakage test shall be applied to the face of the plug (i.e., unseating pressure).
- C. Warranty: See Section 15100.
- D. Equipment Manufacturers:
 - 1. All plug valves of same type shall be by one manufacturer.
 - 2. Plug valves shall be manufactured by Henry-Pratt, Val-Matic, Dezurik or equal.

1.03 SUBMITTALS

- A. General: Submittals shall be in accordance with Section 15100.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. General: Product delivery, storage and handling shall be in accordance with Section 15100.

1.05 SPECIAL TOOLS AND SPARE PARTS

- A. General: Provide special tools in accordance with Section 15100.

PART 2 – PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. All body, bonnet and flange thickness shall be designed and rated in accordance with ANSI/AWWA C504-450, and/or ANSI B16.1, Class 125, as per the service. Mechanical joint ends shall be to the AWWA Standard C111-72. Screwed ends shall be to the NPT standard.
- B. All exposed nuts, bolts, springs and washer shall be 304 stainless steel, unless otherwise noted.
- C. Valves shall be furnished with permanently lubricated 316 stainless steel or oil-impregnated bronze upper and lower plug stem bushings. These bearings shall comply with AWWA Standard C507-73.
- D. Seats in 4-inch and larger valves shall have a welded-in overlay of a high nickel content on all surfaces contacting the plug face which comply with AWWA Standard 507.
- E. Valve shaft seals shall comply with AWWA Standard C507.
- F. Valve bodies shall be of ASTM A126 Class B, in compliance with AWWA Standard C507. Port areas for valves 6 inches and smaller shall be 100 percent of full pipe area. Valves 8 inches through 30 inches shall have a minimum port area of 80 percent of full pipe area. Resilient plug facings shall be of Hycar or Neoprene.

2.02 MATERIALS AND EQUIPMENT

- A. Two-Way Valves:
 - 1. Non-lubricated, eccentric type, cast iron body with end type as shown on the Drawings.
 - 2. Packing shall be BUNA (VEE) with a maximum temperature of 350 degrees F.
 - 3. Bearings shall be stainless steel or bronze as required.
 - 4. Suitable for particular service in piping in which installed.
- B. Three-Way and Four-Way Valves:
 - 1. Equal to that specified for two-way valves.
 - 2. Port location, style, and arrangement as shown on the Drawings and as required.
- C. Actuators (type as shown on the Drawings and specified herein):
 - 1. Lever and Tee Handle Actuators: Size and length as required with a 2-inch square socket end for use on 2-inch square actuating nut. Attached handle to valve with a 4-foot length of chain.
 - 2. Handwheel Actuators:
 - a. Totally enclosed gear type.
 - b. Sized for the operating conditions encountered.
 - c. Use on all valves 6 inches in size and larger, and on smaller valves when valve location does not allow level actuator.

3. Chain Wheel Actuators:
 - a. Totally enclosed gear type.
 - b. Chain shall extend to 3 feet above floor unless otherwise shown.
 - c. Supplied with chain guides and chain wheel, chain guides shall be galvanized.
 - d. Use for all valves that are located with centerline 5 feet or more above floor.

2.03 ACCESSORIES

- A. Manual valves shall have lever actuators or gear actuators with tee wrenches, extension stems, floorstands, etc. as indicated on the plans. All valves 6 inches and larger shall be equipped with gear actuators. All gearing shall be enclosed in a semi-steel housing and be suitable for running in a lubricant with seals provided on all shafts to prevent entry of dirt and water into the actuator. All actuator shafts shall be supported on permanently lubricated bronze bearings. Actuators shall clearly indicate valve position and an adjustable stop shall be provided to set closing torque. All exposed nuts, bolts, and washers shall be stainless steel. Valve packing adjustment shall be accessible without disassembly of the actuator.
- B. Valves and gear actuators for buried or submerged service shall have seals on all shafts and gaskets on the valve and actuator covers to prevent entry of water. Actuator mounting brackets for buried or submerged service shall be totally enclosed and shall have gasket seals. All exposed nuts, bolts, springs and washers shall be stainless steel.
- C. All buried plug valves shall have a remote position indicator in the valve box showing position of the valve. A centering and identification plate shall be provided showing open and close position and number of turns to open for each valve. The position indicator shall be stainless steel or other material protected from corrosion.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Orientation: Install valves in such a manner that plug rotates to top of the valve when opened.
- B. Valves shall be installed in accordance with the manufacturer's instructions.

END OF SECTION