

SPECIFICATIONS - DETAILED PROVISIONS
Section 11240 - Chemical Meter Pumps - General

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SECTION 11240
CHEMICAL METER PUMPS - GENERAL

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. This section covers the work necessary to furnish and install, complete, the chemical metering pumps specified herein, and as further specified in the Detail Pump Specifications hereinafter.

1.02 GENERAL

- A. See GENERAL CONDITIONS which contain information and requirements that apply to the work specified herein and are mandatory for this project.

1.03 MANUFACTURER'S SERVICES

- A. A manufacturer's representative for the equipment specified shall be present at the jobsite for installation assistance, inspection and certification of the installation, equipment testing, startup assistance, and training of DISTRICT'S personnel.

1.04 SUBMITTALS

- A. Submittals shall be make as required in Section F of the GENERAL CONDITIONS. In addition, complete fabrication, assembly, foundation, and installation drawings, together with detailed specifications and data covering material used, power drive assemblies, parts, devices, pumps, supports, panels, and other accessories forming a part of the equipment furnished as well as schematics, diagrams, and panel layouts.

1.05 RELATED WORK SPECIFIED AND PERFORMED UNDER OTHER SECTIONS

Section

Item

Division 15

Valves, pipe, and fittings as applicable

PART 2 - PRODUCTS

2.01 GENERAL

- A. The use of a manufacturer’s name and model or catalog number is for the purpose of establishing the standard of quality and general configuration desired only. Products of other manufacturers will be considered in accordance with the General Conditions.

2.02 PUMP AND DRIVER DESCRIPTION

- A. See Detail Pump Specifications at the end of this section.

2.03 PUMP ACCESSORIES

- A. Pump Identification Plate: A 16-gauge stainless steel identification plate shall be securely mounted on each pump in a readily visible location. The plate shall bear the ¼-inch die-stamped equipment identification number that is assigned each pump in the Detail Specification and shown on the Drawings.
- B. Lifting Lugs: Equipment weighing over 100 pounds shall be provided with lifting lugs.
- C. Gauge Connections: Provide tapped and plugged suction and discharge gauge connections on the piping headers immediately adjacent to the pumps.
- D. Spare Parts and Special Tools: See Detail Pump Specification for spare parts and special tool required.
- E. Corrosion Resistance: All materials used in the construction of chemical feeding equipment, shall be resistant to corrosive attacks from the chemicals they serve. The following table lists the most commonly used chemicals for the water treatment and some of the suitable materials for the construction of chemical feeding equipment. Unless the manufacturer suggests more suitable, approved materials for his equipment, the following table shall be adhered to:

Chemical

Aqueous Ammonia (NH₄OH)

Suitable Handling Material

Hastelloy C, Titanium, PVC, Penton, Hypalon, Vinyl, Saran, Polyethylene, Tyril, Glass

PART 3 - EXECUTION

3.01 PUMP AND DRIVER INSTALLATION

- A. Pumps and drivers shall be installed in accordance with the manufacturer's recommendations, and as shown on the Drawings.

3.02 PAINTING

- A. Unless special painting is required by the Detail Specifications, shop and field painting shall be in accordance with and as specified in Section 09871, COATING SYSTEMS FOR WATER PUMPING PLANTS.

3.03 FUNCTIONAL TEST

- A. Prior to plant startup, all equipment described Specifications following shall be inspected for proper alignment, quiet operation, proper connection, and satisfactory performance by means of a functional test.

3.04 MANUFACTURER'S CERTIFICATE(S)

- A. The CONTRACTOR shall obtain written certification from the manufacturer, addressed to the DISTRICT, stating that the equipment will efficiently and thoroughly perform the required functions in accordance with these specifications and as indicated on the Drawings, and that the pump manufacturer accepts joint responsibility with the CONTRACTOR for coordination of all equipment, including motors, controls, and services required for proper installation and operation of the completely assembled and installed unit. The CONTRACTOR shall submit all such certificates to the ENGINEER.

3.05 O&M MANUALS

- A. Prior to start-up the CONTRACTOR shall furnish to the DISTRICT complete operation and maintenance manuals in accordance with Section F of the GENERAL CONDITIONS.

END OF SECTION 11240

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