

SECTION 11195 - DRUM PUMPS

City of San Diego, CWP Guidelines

PART 1 - GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing drum pumps with built-on electric motors, and accessories as indicated.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 11175 Pumps, General
 - 2. Section 16040 Electric Motors

PART 2 - PRODUCTS

2.1 PUMP NAME: [POLYMER DRUM PUMPS] [OIL TRANSFER PUMPS] (P-[] through P-[])

- A. **General:** The portable drum pumps shall be used to transfer [various types of liquid polymers] [oil] from 55 gallon drums [to dilution tanks] and shall meet the following requirements:
- B. **Operating Conditions:**
 - 1. Capacity, minimum (gpm)-[5]
 - 2. Pump head, minimum (TDH-ft)-[25]
 - 3. Suction -Submerged
 - 4. Liquid to be pumped-[Polymer] [Oil]
 - 5. Specific gravity of liquid-[1 to 1.8]
 - 6. Liquid temperature (degrees F)-Ambient
 - 7. Viscosity of liquid-[40-15,000] centipoise
 - 8. pH of liquid-[4 to 12]
 - 9. Min motor size (hp)-[3/4] [3 max]
 - 10. Max motor speed (rpm)-[1800]
 - 11. Operation (hours per day)-[]

NTS: A separate listing should be provided for each service. Because this listing may become very long if pumps are provided for several services, the Specifier may want to create a table containing this criteria to appear at the end of the Section.

C. Pump Dimensions:

- 1. OD of pump (in) -2
- 2. Min size of discharge (in) -1
- 3. Weight of pump and motor (lb, max) -30
- 4. Min length of pump (in) -36

2.2 PUMP REQUIREMENTS

A. Construction: Construction of portable drum pumps shall conform to the following requirements:

- 1. Type of pump -Progressing cavity or screw pump
- 2. Materials -Type 316 stainless steel and Teflon
- 3. Support - Integral handle or handwheel

B. Accessories:

- 1. Discharge with stainless steel connectors -With minimum 10 feet of vinyl or PVC hose
- 2. Storage rack -Steel wall bracket
- 3. Electric connection -Minimum 15 feet of cable, grounded, with 3-prong plug, integral switch and adapter

C. Drive: Direct drive with built-on, ODP, heavy duty, electric motor, suitable for [115-volt, single-phase, 60-Hz] [480-volt, 3-phase, 60-Hz] ac power supply, in accordance with Section 16040.

2.3 MANUFACTURERS

- A. Products indicated shall be manufactured by one of the following (or equal):**
- 1. Lutz Pumps, Inc., model [SS-B70-P.C.]
 - 2. Serfilco, Ltd., model [SS600-D-1 1/4]

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Pumping equipment shall be installed in accordance with the manufacturer's recommendations.

**** END OF SECTION ****