

Typical Specification

Models 4AC, 4AE, 6AC, 6AE, 8AC
Bulletin 100



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Close-Coupled End Suction, Threaded Connections

General

Furnish and install as shown on the plans, _____ (qty) Weinman Close-Coupled End Suction Pump Series 100 size (____x____x____) model _____ centrifugal pump(s). Each shall be capable of pumping _____ GPM when operating against a total pumping head of _____ feet (suction lift/suction pressure) at the temperature, specific gravity and viscosity indicated. The pump shall operate at _____ RPM and shall have _____ percent minimum efficiency at the design point. The pump(s) shall be rated for continuous service and shall be bronze fitted construction suitable for pumping a liquid with the following characteristics:

Liquid handled _____
Specific Gravity _____
Temperature _____
Viscosity of liquid at pumping temperature _____
NPSHA _____

Note: Add any additional facts concerning the nature of the liquid or installation which might affect the pump construction, application or operation.

Construction

The pump shall be coupled directly to a NEMA _____ HP _____ Phase _____ Hertz _____ Voltage _____ RPM _____ Enclosure _____ Motor.

The adapter to the casing is to be one piece cast iron construction capable of mounting a Type 21 mechanical seal with carbon/ni-resist faces stainless steel metal parts and Buna elastomers. Casing shall be of cast iron ASTM-A48, Class 30 cast iron with tensile strength of 30,000 psi. Pump unit shall be capable of standing hydrostatic test pressures of 1.5 times maximum working pressure. All assembly points shall be of machine register fit to assure proper alignment. The threaded casing discharge nozzles shall conform to ANSI B16.1 specifications with minimum 125 psi ratings at 180 degrees F (hot water seal rated at 240 degrees F).

The casing shall have tapped and plugged drain connections and air vent. The case shall be of the suction cover design for ease of maintenance and service with out disturbing discharge piping, bearing frame or motor mounting. The impeller shall be of the enclosed design constructed of ASTM B584 Bronze (with a renewable impeller wear ring).

The motor shaft shall be stainless steel (motor frame sizes 48 and 56) or protected with a (bronze)(stainless steel) sleeve (motor frame sizes 184 to 215) The case shall have a renewable bronze wear ring at the suction.

Testing

The following (witnessed)(non-witnessed) tests are to be performed in accordance to Hydraulic Institute test standards.

_____ Pump performance (A)(B) tolerance level
_____ Routine Motor test
_____ Hydrostatic - Complete Pump

Motor

The motor shall be not less than _____ hp _____ RPM, NEMA design B squirrel cage type, (drip proof)(TEFC) (EISA)(premium) efficiency motor with (1.15)(1.0) service factor and suitable for operation on (115)(230) volt, 1 phase, (50)(60) Hertz power supply OR (200)(230)(460) (575) volt, 3 phase, 60 hertz power supply. Motor size shall be sufficient to prevent overloading at operating conditions or at the lowest listed head conditions whichever point requires greater horsepower. Following installation, grouting and connection of all piping, pump and motor must be checked for alignment in accordance with standards of the Hydraulic Institute.

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