

End Suction Back Pull-Out

General

Furnish and install as shown on the plans, _____
(qty) Weinman End Suction Series 375 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

All pump materials shall be constructed of low lead
components and the pump shall be certified in
accordance with NSF 372 (NSF 61 Optional). Pump shall
be a back pull-out design allowing access to service the
pump's internal working components, without disturbing
the piping for ease of maintenance.

The adapter to the casing is to be one piece cast iron
construction capable of mounting a JM frame motor. The
motor shaft shall be steel and protected with a (bronze)
(316 stainless steel) sleeve slip fit to the shaft. A neoprene
deflector shall be mounted on the shaft to prevent
liquid from entering the motor. The pump shall have a
mechanical seal constructed with carbon/ceramic faces
and Buna elastomers rated at 180 degrees (or optional
carbon/silicon carbide faces and EPDM elastomers rated
at 300 degrees F) and stainless steel metal parts.

Casing shall be of cast iron ASTM-A48, Class 30 with
tensile strength of 30,000 psi (or ductile iron on some
models) and shall be designed to be self-venting to
prevent air entrapment. Pump unit shall be capable
of standing hydrostatic test pressures of 1.5 times the
maximum working pressure. All assembly points shall be
of machine register fit to assure proper alignment. The
flanged casing discharge nozzles shall mate to flanges
conforming to ANSI B16.1 specifications with minimum
125 psi ratings at 230 degrees F. The impeller shall be of
the enclosed design bronze constructed (< 0.25% Pb).

Motor

The motor shall be not less than _____ hp _____ RPM,
NEMA design B squirrel cage type, (drip proof)(TEFC)
EISA 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.

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