

Typical Specification

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Model S & SA Bulletin 700

## Column Sump Pumps

General	bronze. The pump assembly shall include a heavy steel
Furnish and install as shown on the plans, (qty)	support inches in diameter, for mounting on a sump
Weinman Series 700 size (x) model	inches in diameter. Duplex pump sump covers
column type sump pump(s). Each shall be	shall include a manhole 11 x 15 inches, with cover and
capable of pumping GPM when operating against	with inch (flanged)(threaded) vent connection.
a total pumping head of feet (suction lift/suction	Occutival
pressure) at the temperature, specific gravity and viscosity	Control
indicated. The unit shall be designed for installation in a sump feet deep and furnished with a cover plate	For single pump, a float switch shall be mounted on a motor bracket attached to the driver pedestal and shall
and discharge of inches in diameter. The pump	be operated by a guided float. The switch shall operate
shall be floor mounted (Model S) suspended from the	the motor directly or with a starter, as required. The
cover plate (Model SA). The pump shall operate at	switch shall be (watertight)(explosion proof). A high water
RPM and shall have percent minimum efficiency at	alarm with warning horn (watertight)(explosion proof)
the design point and shall have construction suitable for	enclosure shall be included. For duplex pumps, supply
pumping a liquid with the following characteristics:	a mechanical or electric alternator and controls in a
	(watertight)(explosion proof) enclosure, that will alternate
Liquid handled	the normal operation of the two pumps, operate both
Specific Gravity	pumps simultaneous if required, and provide standby control should one pump become inoperative.
Temperature	control chodia one pamp become inoporative.
Viscosity of liquid at pumping temperature	Testing
NPSHA	The following (witnessed)(non-witnessed) tests are to
	be performed in accordance to Hydraulic Institute test standards.
Note: Add any additional facts concerning the nature	Standards.
of the liquid or installation which might affect the pump	Pump performance (A)(B) tolerance level
construction, application or operation.	Routine Motor test
Construction	Hydrostatic - Complete Pump
The pump casing, suction head, strainer and bearing	
housing shall be of extra heavy cast iron, with minimum	Motor
tensile strength of 30,000 psi. The casing shall be of	The motor shall be not less than hp RPM,
the double volute type to minimize radial load on the	NEMA C-face vertical mount, design B squirrel cage type,
bearing and prolong the life of the bottom bearing. The	(drip proof)(TEFC)(EISA)(premium) efficiency motor with
impeller shall be semi-open type, of non-corrosive bronze	(1.15)(1.0) service factor and suitable for operation on (115)(230) volt, 1 phase, (50)(60) Hertz power supply OR
material. The impeller shall be fully adjustable, without	(200)(230)(460)(575) volt, 3 phase, 60 hertz power supply.
dismantling the pump, by means of an adjusting coupling	Motor size shall be sufficient to prevent overloading
and thrust bearing in the motor pedestal. Column pipe shall be full weight steel pipe machined at each end for	at operating conditions or at the lowest listed head
a perfect alignment fit at all assembly points to assure	conditions, whichever point requires greater horsepower.
concentric alignment. The pump shaft shall be ground and	Following installation, grouting and connection of all
polished stainles steel and of sufficient size to transmit the	piping, pump and motor must be checked for alignment in
required horsepower. Replaceable shaft guide bearings,	accordance with standards of the Hydraulic Institute.
of self-lubricated bronze material suitable for the liquid	
being pumped, shall be contained in precision machined	
bearing housings with machined register fit, spaced on	
recommended bearing centers, but not to exceed 5-feet.	
The bottom bearing assembly shall be self-lubricated	

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