Typical Specification

Model LVM Bulletin 1100



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Split Case Pumps - Vertically Mounted

General Furnish and install as shown on the plans, (qty) Weinman vertical mount split-case Series 1100 size (xx) model Each shall	seal cavities to .002 in and shall have optional renewable (bronze) (416 S.S.) shaft sleeves threaded to the shaft and free to expand at the stuffing box end.
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. Rotation shall be (clockwise/counter-clockwise) when viewed from the driver end. The pump(s) shall be rated for continuous service and shall be bronze fitted construction suitable for pumping a liquid with the following characteristics:	Renewable wearing rings shall be bronze and mounted on the impeller and suction inlets and held in place with pins. Heavy-duty grease lubricated ball bearings shall support the rotating assembly. The outboard bearing shall be locked in position by bearing lock nuts. The inboard bearing shall be free to move axially in the bearing housing. Removable bearing caps and bearing covers shall permit inspection or service of the bearing without disturbing the pump casing or piping. Bearing housings shall be designed for grease lubrication. Grease relief shall prevent over-lubrication.
Liquid handled	0.6
Specific Gravity Temperature	Stuffing boxes shall be fitted with single stainless steel spring type mechanical seals with carbon, (ni-resist)
Viscosity of liquid at pumping temperature NPSHA	(ceramic) faces and Buna elastomers.
Note: Add any additional facts concerning the nature of the liquid or installation which might affect the pump construction, application or operation.	The pump support frame shall be fabricated from $\frac{1}{2}$ " rigid steal plate and shall have an adjustable motor mount plate to allow for perfect alignment. The coupling shall be spacer type allowing service of the upper bearing and seal with out distrubing motor alignment. The coupling guard
Construction	shall be (standard) (OSHA) type.
The pump casing shall be of extra heavy cast iron, with	
minimum tensile strength of 30,000 psi. High pressure	Motor
cases shall be ductile iron with minimum tensile strength of 60,000 psi, split parallel to the shaft. Bearing housing supports, suction and discharge flanges shall be cast, bored and machined integrally with the lower casing half. Bearing housings shall be machined, bolted and rabbet fitted to the bearing housing supports for positive alignment. Upper and lower casing shall be doweled and bolted together. Removable upper and lower half casing and bearing caps permit inspection or removal of the entire rotating assembly without disturbing the piping. Seals are replaceable without removing the upper case. Flanges shall be standard 125# ANSI drilled flat face (300# ANSI drilled, flat face). The upper case shall be	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.
fitted with lifting lugs, 3/4" P.T. vent, 1/2" P.T. drains and 1/4"	Testing
P.T. gauge connections on the suction and discharge	The following (witnessed)(non-witnessed) tests are to
nozzles. The impeller shall be of one-piece vacuum cast	be performed in accordance to Hydraulic Institute test
bronze of the enclosed, Francis design double suction	standard.
type, accurately machined, dynamically and hydraulically	Pump Performance (A, B) level
balanced to minimize thrust load on the bearings. The	Routine Motor Test
impeller shall be keyed and axially adjusted on a 416 S.S. shaft with lock collars. Shaft design shall be SAF-	Hydrostatic - Complete Pump

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1045 steel designed to limit maximum deflection at the