

## Typical Specification

Models L1, L2, L3, L4, L5, L6  
Bulletin 1200

# WEINMAN®

www.cranepumps.com

### Split Case Pumps - Horizontally Mounted

#### General

Furnish and install as shown on the plans, \_\_\_\_\_ (qty) Weinman horizontal split-case Series 1200 size (\_\_\_\_x\_\_\_\_x\_\_\_\_) model \_\_\_\_\_. 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. 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:

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 casing shall be of extra heavy cast iron, with minimum tensile strength of 30,000 psi. High pressure 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 fitted with lifting lugs, 3/4" P.T. vent, 1/2" P.T. drains and 1/4" P.T. gauge connections on the suction and discharge nozzles. The impeller shall be of one-piece vacuum cast bronze of the enclosed, Francis design double suction type, accurately machined, dynamically and hydraulically balanced to minimize thrust load on the bearings. The impeller shall be keyed and axially adjusted on a 416 S.S. shaft with lock collars.

Shaft design shall be SAE-1045 steel designed to limit maximum deflection at the seal cavities to .002 in and shall have optional renewable (bronze) (416 S.S.) shaft sleeves. 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.

Stuffing boxes shall be fitted with single stainless steel spring type mechanical seals with carbon, (ni-resist) (ceramic) faces and Buna elastomers. Packed units shall have a heavy duty bronze split gland with bronze adjusting nuts and studs, 5 rings of graphite-polymer packing, and lantern ring with flush tubing connected to the pump discharge, suitable for filter or separator mounting.

The pump base plate shall be fabricated from 1/4" rigid steel plate and shall have a 1 1/2" wide anchorage flanges down each side, 2 grouting holes, a drip trough running the full length of the base with closed plates at both ends fitted with a 3/4" P.T. couplings for drain pipe connection. Motor risers shall be of the platform type with no motor blocks higher than 1". The coupling shall be (flexible) (steel) type; size rated for full torque. The coupling guard shall be (standard) (OSHA) type.

#### 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. 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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®

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#### Testing

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

\_\_\_\_\_ Pump performance (A,B) level  
\_\_\_\_\_ Routine Motor Test  
\_\_\_\_\_ Hydrostatic - Completed Pump