FLO FAB

HORIZONTAL SPLIT CASE PUMP

SINGLE STAGE, DOUBLE TYPE "AE" "4000 SERIES" SUCTION

SPECIFICATIONS

2. General: The pumps shall be of the single stage, double suction, horizontal split case design; split on the horizontal axis and shall be bronze fitted construction. Suction and discharge connections shall be located on opposite sides off the lower half casing. Allowing removal of the rotaling element without disturbing the system piping connections. The pump (s) shall be a FLO FAB Pump AE design. Each pump shall be designed to deliver a flow of gpm at a total head of leet at an efficiency of 8 at design.

condition.

Casing: The pump casing material shall be a minimum of class 35 cast iron. Water passageways shall be smooth to permit maximum working pressure under which the pump could operate at design speed. The suction flonge shall be drilled (125 Lb) (250 Lb) ANSI. The discharge flange shall be drilled (125 Lb) (250 Lb) ANSI. The bearing brackets shall be cast as an integral part of the lower casing and have removable bracket caps. The bearing having shall be dawelled for location and anti-rolation. The pump feet shall also be cast as an integral part of the lower casing.

Bronze renewable casing rings shall be furnished, dowelled and shouldered in the casing. Ring dowels shall be located in slots on the split surface of the lower casing.

3. Impeller: The impeller shall be of one piece cast bronze, double suction type. The impeller shall be balanced, keyed to the shaft and fixed in an axial position by threaded shaft sleeves. The impeller skirt shall be grooved and fit with close tolerances to the casing ring to permit a minimum of recirculation between the impeller and

the casing ring for maximum efficiency. (Optional: Renewable bronze impeller rings (Optional: Renewable bronze impeller rings shall be shrunk on the impeller and locked in place with stainless steel set screws. The impeller rings shall be grooved and fit with close tolerances to the casing ring for maximum

efficiency)

A Scutting Boxes:

Packing: The stuffing boxes shall hold a minimum of five rings of non-asbestos packing. The bronze gland shall be spill in two halves, lo facilitate removal for repacking. Gland bolts shall be of the swing lype made of steel with 18-8 stainless steel nuts.

Mechanical seal: Sealing of the pump liquid cavity shall be with a face lype mechanical seal with NI-Resist stationary seat, carbon sealing washer, Buna rubber flexible members, stainless steel metal parts and spring, Seal to bee rated for 225 Deg F. (107 DegC) @ 150 psig [10.34 bat] maximum. Seal shall be mounted on the state of the sta

over a bronze shall sleeve. The shall be Shart and Shart Sleeve. The shall shall be carbon steel, adequately sized for the loads transmitted. Shalf deflection shall not exceed .002 inches at the face of the stuffing box when operating between 95% and 105% of capacity at best efficiency at the pump 's maximum 60 Hz. speed and with full diameter impeller. The shall shall be protected through the stuffing box by means of bronze shall sleeves and they shall be threaded against shall rotation. The sleeves shall be sealed with 'O' rings at the inside diameter to eliminate leakage between the shaft and sleeve. (Optional; Shaff shall be positively sealed against pumped fluid

by means of specially machined shaft sleeve and impeller with sockets for use with "O" ring seals against impeller hubs.) Shaft sleeves shall extend beyond the packing glands for mechanical seal forces.

larges!

Bearings:
Bearings shall be arranged for both radial and bearing shall be arranged for radial load only. The outboard bearing shall be arranged for both radial and exial loads. Both bearings shall be grease lubricated with grease flush through the bearing housing (Optional: all lube) Bearings shall be designed for an average life of 100,000 hours. Bearings shall be protected from liquid entry be means of rubber slingers mounted on the shaft and lip seals in the bearing housings.

Outboard bearing cover shall have a plugged opening for tachometer connection. Bearing housing lubrication design must be capable of being changed from grease to all lubrication type without replacement of bearing housing or the lower pump casing. The outboard bearing shall have retaining ring retention.

Base: The pump and driver shall be aligned and bolted in place prior to factory shipment. Find alignment must be performed at the jobsile in accordance with the standards of the Hydraulic institute and the pump installation, operation and to eliminate vibration.

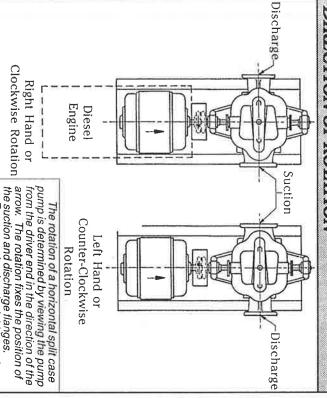
Base: The pump installation, operation and commence instructions. Base is to be grouted to eliminate vibration.

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to eliminate vibration.

8. Coupling: A flexible coupling shall be provided between the pump and driver. A coupling guard shall be furnished over the coupling guard shall be furnished over the coupling for protection.

DIRECTION OF ROTATION



Subject to change without notice

Clockwise Rotation Right Hand or

For pumps having dual drive such as engine and electric motor, the rotation is specified from the engine end of the unit.

ARRANGEMENT TYPICAL CYCLONE SEPARATOR

☐ Piping and fittings furnished

☐ Cyclone separator mounted

 \square Cyclone separator

not mounted

Piping and

fittings furnished

by FLO FAB

outlet to be piped to drain olhers or suction by 1/2 - 14 NPT by others Supply

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