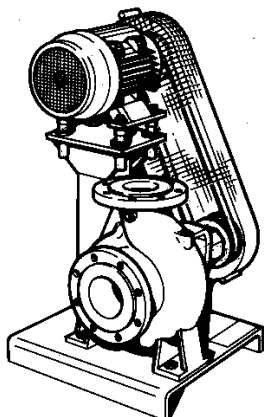


VEEFLO BELT DRIVE CENTRIFUGAL


Belt drive centrifugal pumps for continuous service, handling hot and cold liquids in general pumping, water supply and building services applications.

LOCATION

The pump should be located in a clean dry, ventilated environment and be easily accessible for servicing. Do not position near hot surfaces. Isolating valves should be fitted within the pump inlet and outlet pipework.

INSTALLATION

The pumpset should be secured to a concrete base of suitable mass to absorb and minimise any vibration.

Before installing the pumpset complete all necessary pipework and flush until clean.

Do not allow the pump flanges to take the pipework weight.

Avoid installing the pump in the lowest part of the system where sediment can collect. In atmospheric systems the pump must be positioned so that it does not pump over, nor suck air down, the feed and expansion tank vent.

ELECTRICAL

The operating voltage and electrical data are indicated on the motor nameplate and electrical connection should be made as shown. **The equipment must be earthed.**

Overload protection must be provided, set to the motor full load current.

OPERATION

! CAUTION - DO NOT RUN THE PUMP DRY OR WITHOUT BEARING OIL - otherwise the pump will be damaged - and leak.

Carefully open the pump isolating valves, allowing water into the pump.

Vent the pump by carefully slackening the vent plug until water is seen to escape, - tighten the vent plug.

Check that the pumpset is free to turn by removing the motor fan cowl and carefully rotating the pump and motor using the motor fan.

! CAUTION - Check the drive alignment and belt tension.

Verify the direction of rotation by momentarily switching the motor on and off. Rotation can be reversed on three phase motors by interchanging any two of the three phases.

! CAUTION - Replace the motor fan cowl and drive guard.

Run the pump against a quarter open discharge valve - at full operating speed slowly open the discharge valve.

Verify that the voltage and running amps are within the nameplate data.

Check that the equipment is not overheating or vibrating. Any initial noise may be due to air in the system and should cease provided the system is fully vented.

! CAUTION - Do not vent the pump whilst hot.

BELT DRIVE ALIGNMENT & TENSION

To verify alignment place a straight edge across the two pulleys.

A new drive will be slightly over-tensioned to allow for the normal drop in tension during the running-in period.

! IMPORTANT - After the drive has been running for around 30 minutes, the belt tension should be checked and re-adjusted if necessary.

BEARING LUBRICATION

! CAUTION - It is essential to maintain the correct level of oil in the pump bearing housing - midway up the sight glass on the side of the housing.

! CAUTION - Over-filling with oil will cause overheating and bearing failure.

Recommended Oil

Speed up to 1500 rpm - Texaco Rando HD100 or Equivalent

Speed above 1500 rpm - Texaco Rando HD68 or Equivalent

Motor bearings are packed with grease on assembly - to cover an acceptable service life under normal operating conditions. The recommended standard grease is Shell Alvania RA, or equivalent.

MAINTENANCE

Periodically check that the pump is operating satisfactorily and the drive belts are not loose or over-tensioned.

Replace any damaged or worn parts when necessary - Mechanical seals and Bearings are normal wearing parts.

If the pump bearing temperature is always below 50 degrees C, change the oil once per year. If the pump bearings reach 80 degrees C or if there is a risk of oil contamination, change the oil every 6 months or after 5000 hours running.

Any idle pump may tend to stick when it does not operate for prolonged periods - test periodically.