



## INSTALLATION RECOMMENDATIONS

- 1) To avoid contamination, do not remove plastic port plugs until fittings are to be installed.
- 2) Power Unit mounting flange must make full contact with equipment mount; do not use the mounting bolts to force alignment of the power unit on to the equipment mount.
- 3) If pump fails to prime, remove Cartridge Check Valve and start the power unit until hydraulic oil flows from the valve cavity and reinstall the Cartridge Check Valve. (*does not apply to double acting units*)
- 4) Fluid temperature should not exceed 150°F, System reliability and component service life will be reduced.

## INLET CONDITIONS

- 1) Positive pressure must be available at the pump inlet while it is operating. If overrunning load causes the motor to rotate faster than the pump can fill it, cavitations will occur. Consult the factory for inlet pressure requirements and speed limitation.

## FILTRATION

- 1) For maximum pump and system component life, the system should be protected from contamination at a level not to exceed 125 particles greater than 10 microns per milliliter of fluid (SAE Class 4 / ISO 16/13).

## SERVICE

- 1) Clean fluid essential to system reliability and longer component service life.
- 2) It is recommended that for every 4,000 operating hours or once a year, whichever ever occurs first, the air filter/ breather cap and suction strainer should be replaced or thoroughly cleaned.
- 3) Every 2,000 operating hours, or every 6 months, whichever ever occurs first? Drain hydraulic oil from reservoir and remove reservoir from Manifold (end plate). Use WD-40 or similar product to wipe down and remove all debris inside the reservoir, also check the magnet for signs of metal particles. Lubricate reservoir O-ring with hydraulic fluid to remount the reservoir. Insure reservoir O-ring is not pinched or pushed out of groove during installation.
- 4) For TEFC motors, remove fan casing and wipe fan blade and casing.
- 5) For other service, please consult factory for proper procedures.



## FLUIDS

KTI recommends using top-quality hydraulic fluids with ISO VG 22 – 68 (19.8 – 74.8 cSt, 97 – 347 SUS at 40°C) to ensure optimum performance and system life. Fluids should have anti-wear properties, rust and oxidation inhibitors. If using synthetic fluids, consult the factory for alternative seal material requirements.

Fluid Temperature Range	ISO Viscosity Grade (ISO VG)
-5°F to + 140°F -21°C to + 60°C	22
+5°F to + 170°F -15°C to +77°C	32
+15°F to + 190°F -9°C to + 88°C	46
+30°F to +210°F -1°C to + 99°C	68

Do not operate Power Unit above recommended Fluid Temperature Range.

Premium hydraulic oil with proper ISO Viscosity Grade and additives such as Chevron EP, Mobile DTE 10, DTE 20 series, or Shell Tellus would be acceptable.



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## **KTI Hydraulics Limited Warranty**

KTI Hydraulics warrants its product free from defects in material, workmanship, and design for a period of two years after date of Manufacture on DC Units and one year from date of manufacturer on AC Units. Under no circumstances is there any warranty of fitness for a particular use and KTI Hydraulics cannot and does not accept responsibilities of any type or any of its products that have been subjected to improper installation, improper application, negligence, tampering or abuse. All repairs must be authorized by factory to reduce the risk of voiding the warranty. KTI Hydraulics' liability warranty shall extend only to replacement or correction, f.o.b. KTI. We make no other warranties, expressed or implied, and are not responsible for any consequential damages resulting from use by any buyer or user, our liability being limited to the value of product sold, or obligated to repair or replace a defective part.

**For warranty information or warranty request please contact Customer Service.**

Power units without model number & serial number will not be covered under warranty, when calling please have model number and serial number of the power unit.