## PROHIBITION TO PUT INTO SERVICE

Parker Hannifin Manufacturing France SAS states with this declaration that our products:

Are intended to be incorporated into machinery or to be assembled with another machinery to constitute machinery covered by Directive 2006/42/EC.

Are in accordance with technical specifications stated in our product catalogue.

And furthermore declares that it is not allowed to put the machinery into service until the machinery into which it is to be incorporated or of which it is to be a component has been found and declared to be in conformity with the provisions of Directive 2006/42/EC and with national implementing legislation, i.e. as a whole, including the machinery referred to in this declaration.

Parker Hannifin Manufacturing France SAS Hydraulics Group VPDE - Denison Vane Pumps & Motors





# **WARNING — USER RESPONSIBILITY**

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  such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of
  the components or systems.



Please contact your Parker representation for a detailed "Offer of Sale".



Parker Hannifin Manufacturing France SAS VPDE, Denison Vane Pumps & Motors 14 route du Bois Blanc - BP 539 FR - 18105 Vierzon Cedex, France Tél: +33 (0)2 48 53 01 20

Fax: +33 (0)2 48 53 01 40





# **Hydraulic Pump** Installation and start-up information

Piston and Vane Denison Hybrid T6H\* Series

climate control filtration fluid & gas handling hydraulics process control ealing & shielding



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C - COMPENSATOR

### GENERAL APPLICATIONS INSTRUCTIONS

Hydraulic Piston and Vane Pumps

Series T6H\*

- 1. Check speed range, pressure, temperature, fluid quality, viscosity and pump rotation way.
  2. T6H pump case pressure should not exceed 0.7 bar (see datas).
  3. Check inlet conditions of the pump, if it can accept application requirement.
  4. Shaft type: can the selected shaft withstand the operating forque.
  5. Coupling must be chosen to minimize pump shaft load (weight, misalignment).
  6. Filtration: must be adequate for lowest contamination level.
  7. Environment of pump: to avoid noise reflection, pollution and shocks,
  8. Althrough the T6H pumps have fast off stroke compensator reponse, system relief valves are recommended for safety considerations.
  9. When constantly under pressure with no flow requirements, it is safer to flush the piston pump. Three drains holes are there for this purpose.

# STARTUP PROCEDURE FOR NEW INSTALLATION

- Always fill the housing of the T6H with appropriate clean circuit oil prior to start up.

  Identify the components and their function.

  Visually inspect components and lines for possible damage.

  Check fluid tank for cleanliness. Drain and clean as required.

  Check fluid livel and fill are required with fillered fluid at least as clean as that recommended.

  Fill pump case with clean oil prior to starting.

  Check the alignment of the drive.

  Check oil cooler and activate it, if included in circuit. Check fluid temperature.

  Reduce pressure settings of compensator and relief valve. Make sure accurate pressure readings can be made at appopriate places.

  If solenoids are in system, check for actuation.

  Start pump drive. Observe for correct shaft rotation way. Make sure pump fills properly.

  Air bleed-off the system and re-check the fluid lavel.

  Cycle unloaded machine at low pressure and observe actuation (at low speed, if possible).

  Increase pressure settings gradually in steps. Check for leaks in all lines, especially in pump and motor inlet lines.

  Make correct pressure adjustments.

  Gradually increase speed. Be alert for trouble as indicated by changes in sounds, system shocks and air in the fluid.

- Equipment is operational.

## PRIMING AT STARTING

Never operate pump shaft at top speed and pressure without checking for completion of pump priming, and that the fluid is not aerated.

FLUID CLEANLINESS

NAS 1638 class 8 or ISO 19/17/14 or better.

### SHAFT REQUIREMENTS - COUPLINGS & FEMALE SPLINES

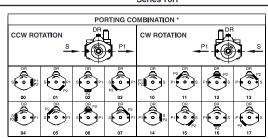
- The shafts will accept a maximum misalignment of 0.06 TIR when the pump is foot mounted and 0.03 mm when flange mounted. The angular alignment of two spline axes must be less than 0.1° (0.002 mm/mm).
- The coupling spline must be jubricated with a lithium molydisulfide grease or a similar
- nuoricant.
  The coupling must be hardened to a hardness between 27 and 45 HRC.
  The female spline must be made to conform to the Class 1 fit as described in SAE-J498b (1971). This is described as a Flat Root Side Fit.

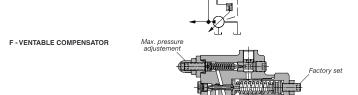
## - KEYED SHAFTS

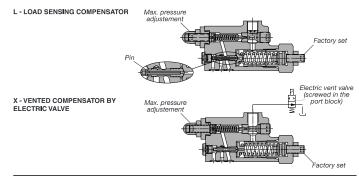
We supply the T6H series keyed shaft pumps with high strength heal-treated keys. Therefore, when installing or replacing these pumps, the heal-treated keys must be used in order to insure maximum life in the application. If the key is replaced it must be a heal-treated key between 27 and 34 HRC hardness. The corners of the keys must be chamfered from 0.76 to 1.02 at 45° to clear radius in the key way.

NOTE

Alignment of keyed shafts must be within the tolerances given for the splined shafts.







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