



DTA
Damen Technical Agencies



Industrial Hydraulic Pumps T7DD, T7DDS

Denison Vane Technology, fixed displacement

Hydraulic Pumps

- Hydraulic Motors
- Hydraulic Valves
- Hydraulic Cylinders
- Hydraulic Filtration
- Hydraulic Accumulators



ENGINEERING YOUR SUCCESS.

We are doing our parts to keep you moving!

DTA your 1 Stop Shop for Hydraulics, Pneumatics and Power Transmissions.

DECLARATION OF CONFORMITY

DTA Hydraulics is a tradename of Damen Technical Agencies BV, supplying hydraulic parts to various industries since 1990. As a Certified Distributor Hydraulics by Parker Hannifin and Authorized Denison Vane Pump Assembler, we guarantee the use of original parts and components. As such we provide you with vane pumps of the same level of quality and warranty conditions as the factory does.

We highly recommend to **use genuine Denison Hydraulics spare parts only** in order to ensure smooth operation and longer service life. Spare parts that we have on stock include pump cartridge kits, shaft and bearing assemblies, seal kits and non-wearing parts of both the T6 and T7 series vane pumps.



**ALL VANE PUMPS SUPPLIED OR REPAIRED BY
DTA HYDRAULICS HAVE BEEN ASSEMBLED ACCORDING
TO THE LATEST FACTORY SPECIFICATIONS WITH
BRAND NEW AND GENUINE DENISON HYDRAULICS PARTS**

We are able to provide you a large variety of options of the original Parker Denison single, double, and triple vane pumps. We can build any customized vane pump from our stock of genuine parts. You can now easily configure that vane pump yourself with the Denison Hydraulics Vane Pump Configurator.

vanepump.eu/vanepumps

Use advanced search to filter results based on configurable options and select any of the 25,000 vane pumps that are listed in our online catalogue. Most of the models are available from stock and ready for shipment to any place in the world instantly. We can supply **Any part, Anytime, Anywhere!**



Model No. T7DD or T7DDS - B42 - B22 - 1 R 00 - A 1 M0 - ..

T7DD series - ISO 6 bolts 3019-2
 Mounting flange 125-A2-HW or 125-B4 HW
T7DDS series - SAE C 6 bolts
 J744 mounting flange

Displacement P1 & P2
 Volumetric displacement (ml/rev.)

- B14 = 44,0 B31 = 99,2
- B17 = 55,0 B35 = 113,4
- B20 = 66,0 B38 = 120,6
- B22 = 70,3 B42 = 137,5
- B24 = 81,1 045 = 145,7
- B28 = 90,0 050 = 158,0

Type of shaft T7DDS
 1 = keyed (SAE C) 3 = splined (SAE C) 14 teeth
 2 = keyed (SAE CC) 4 = splined (SAE BB)

Type of shaft - T7DD and T7DDS
 5 = keyed (ISO 3019-2 - G32M)

Modifications

Mounting w/connection variables
 4 bolts SAE flanges J518

Type	P1 & P2 = 1.1/4" - S = 4"	
	Metric thread	UNC thread
T7DD	M0	
T7DDS	M0	00

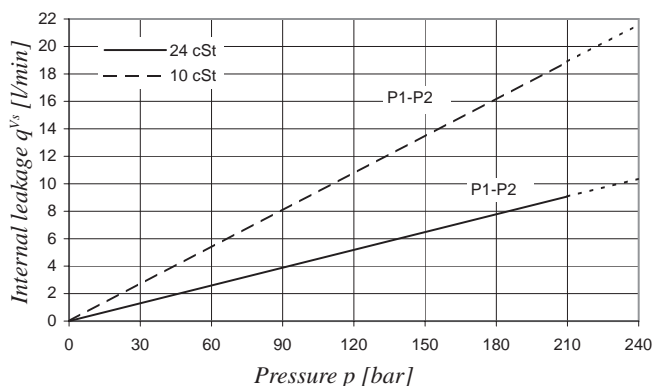
Seal class
 1 = S1 BUNA N - 0,7 bar max. (for mineral oil)
 4 = S4 EPDM - 7 bar max. (for fire resistant fluids)
 5 = S5 VITON® - 7 bar max. (for mineral oil and fire resistant fluids)

Design letter

Porting combination (see page 72)
 00 = standard

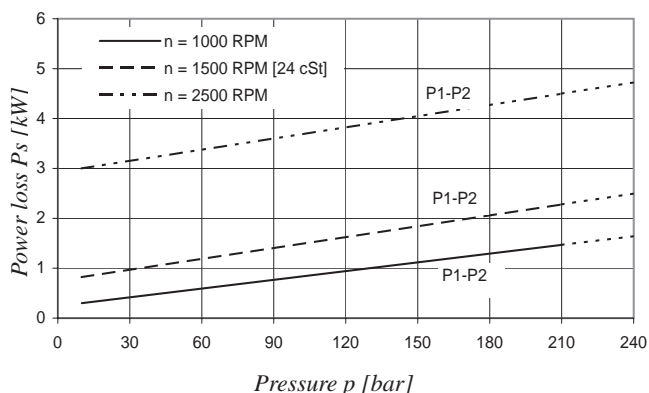
Direction of rotation (shaft end view)
 R = Clockwise
 L = Counter-clockwise

INTERNAL LEAKAGE (TYPICAL)



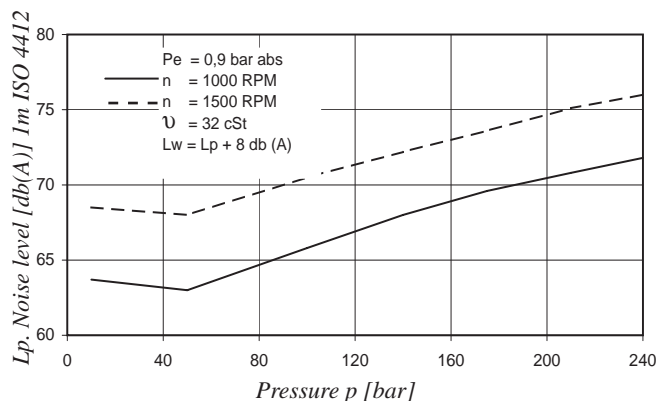
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow.
 Total leakage is the sum of each section loss under its respective operating conditions.

POWER LOSS HYDROMECHANICAL (TYPICAL)



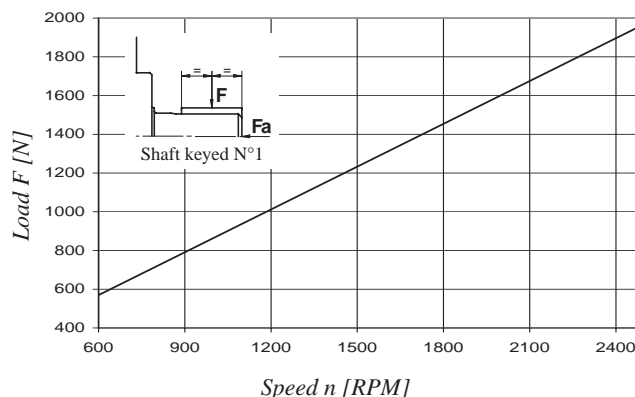
Total hydromechanical power loss is the sum of each section loss under its respective operating conditions.

NOISE LEVEL (TYPICAL) - T7DDS - B31 - B31



Double pump noise level is given with both stages discharging at the pressure value indicated on the curve.

PERMISSIBLE RADIAL LOAD



Maximum permissible axial load $F_a = 1200 \text{ N}$



**ANY PART
TIME
WHERE**

we are doing our parts to keep you moving!

Damen Technical Agencies B.V.

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