



DTA

Damen Technical Agencies



Mobile Hydraulic Pumps T6DRM, T6DRMY

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. T6DRM (Y) - B45 - 1 R 00 - A 1 0 - A 1 ..

Series

Y = Port flanges with metric threads

Cam ring

(Delivery at 0 bar & 1500 r.p.m.)

| | |
|-------------------|-------------------|
| B14 = 71,4 l/min | B35 = 166,5 l/min |
| B17 = 87,3 l/min | B38 = 180,4 l/min |
| B20 = 99,0 l/min | B42 = 204,0 l/min |
| B24 = 119,3 l/min | B45 = 218,5 l/min |
| B28 = 134,5 l/min | B50 = 237,0 l/min |
| B31 = 147,4 l/min | |

Type of shaft

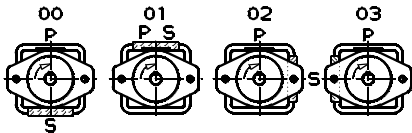
- 1 = keyed (SAE C)
- 2 = keyed (SAE CC)
- 3 = splined (SAE C)
- 5 = keyed (non SAE)

Direct. of rotation (view on shaft end)

- R = clockwise
- L = counter-clockwise

Porting combination

00 = standard



Modification

Seal class

- 1 = S1 (for mineral oil)
- 4 = S4 (for the resistant fluids)
- 5 = S5 (for mineral oil and fire resistant fluids)

Design letter

Porting adaptor

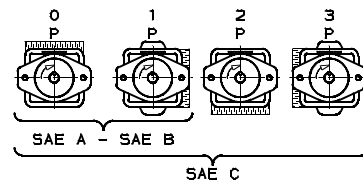
Coupling

- 1 = SAE A
- 2 = SAE B
- 3 = SAE BB
- 4 = SAE C
- 5 = SAE J498b
- 16/32 - 11 teeth

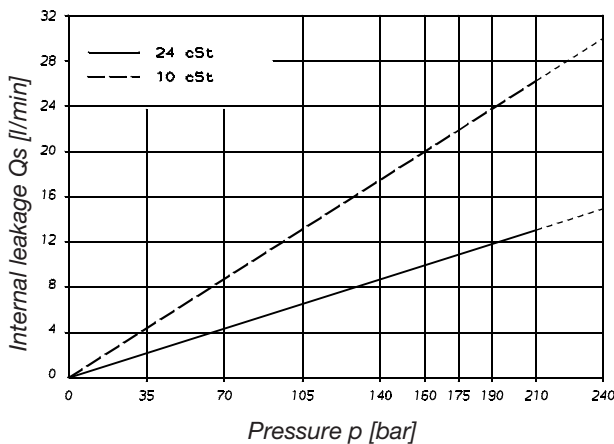
Adaptor

- 0 = None
- A = SAE A
- B = SAE B
- C = SAE C

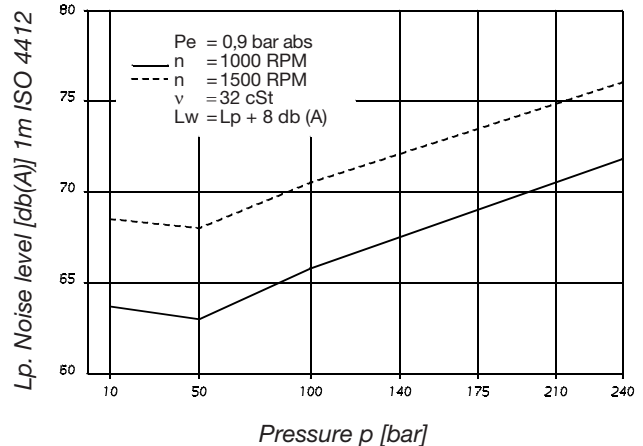
Porting adaptor



INTERNAL LEAKAGE (TYPICAL)

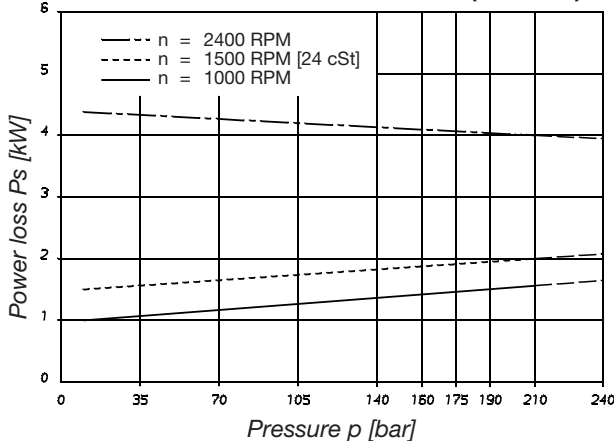


NOISE LEVEL (TYPICAL) - T6DRM - B38

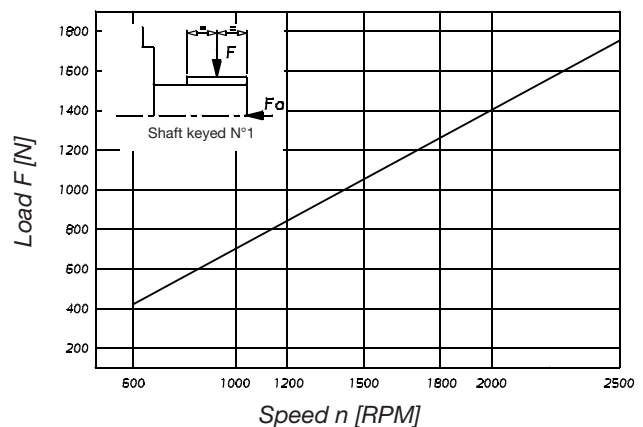


Do not operate the pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow.

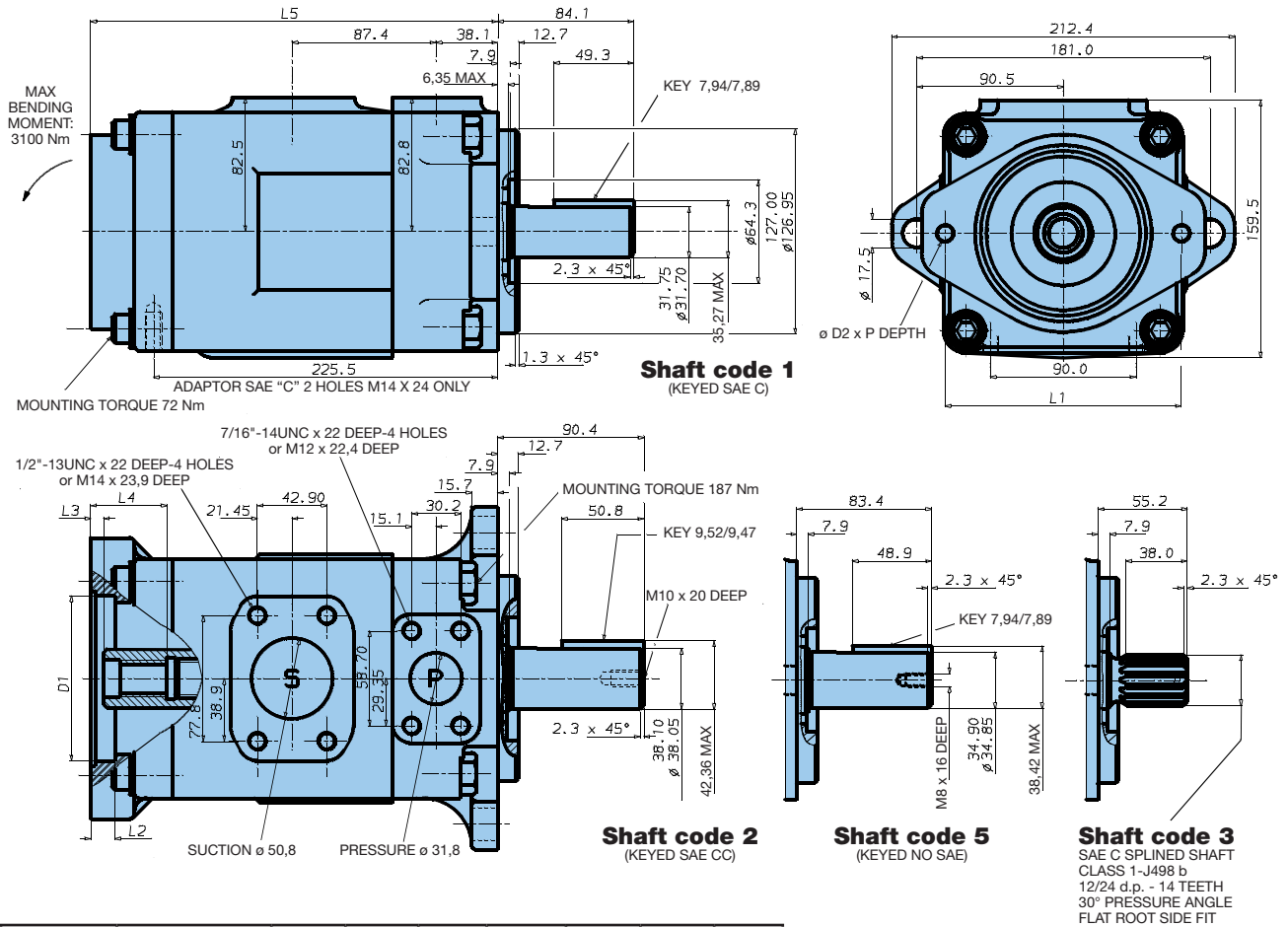
POWER LOSS HYDROMECHANICAL (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N



Weight 32,3 kg

| Adaptor | D1 | D2 | P | L1 | L2 | L3 | L4 | L5 |
|---------|---------------|-----|----|-------|------|-----|------|-------|
| SAE A | 82,65/82,60 | M10 | 24 | 106,4 | 11,0 | 8,0 | 32,0 | 237,0 |
| SAE B | 101,70/101,65 | M12 | 28 | 146,0 | 16,0 | 8,0 | 46,0 | 251,0 |
| SAE C | 127,10/127,05 | M16 | - | 181,0 | 16,0 | 8,0 | 56,0 | 261,0 |

| Adaptor | SAE A | | | SAE B | | SAE C |
|------------------|--------|--------------|--------|--------|--------|--------|
| | SAE A | SAE 11 teeth | SAE B | SAE B | SAE BB | SAE C |
| Coupling drive | SAE A | SAE 11 teeth | SAE B | SAE B | SAE BB | SAE C |
| Number of teeth | 9 | 11 | 13 | 13 | 15 | 14 |
| Pitch | 16/32 | 16/32 | 16/32 | 16/32 | 16/32 | 12/24 |
| Pressure angle | 30° | 30° | 30° | 30° | 30° | 30° |
| Major dia. (min) | 15,875 | 19,05 | 22,225 | 22,225 | 25,400 | 31,750 |
| Minor dia. (min) | 12,700 | 16,017 | 19,134 | 19,134 | 22,268 | 27,589 |

| Shaft torque limits [ml/rev x bar] | | | |
|------------------------------------|-------------|----------------|-------------|
| Shaft | Vi x p max. | Coupling drive | Vi x p max. |
| 1 | 43240 | SAE A | 11000 |
| 2 | 66036 | SAE B | 20600 |
| 3 | 61200 | SAE BB | 32670 |
| 5 | 55600 | SAE C | 37390 |
| | | SAE - 11 teeth | 15850 |

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

| Series | Volumetric Displacement Vi | Flow Q [l/min] & n = 1500 RPM | | | Input power P [kW] & n = 1500 RPM | | |
|--------------------|----------------------------|-------------------------------|-------------|---------------------|-----------------------------------|-------------|--------------------|
| | | p = 0 bar | p = 140 bar | p = 240 bar | p = 7 bar | p = 140 bar | p = 240 bar |
| B014 | 47,6 ml/rev | 71,4 | 62,1 | 55,9 | 2,3 | 18,5 | 30,6 |
| B017 | 58,2 ml/rev | 87,3 | 78,0 | 71,8 | 2,5 | 22,2 | 37,0 |
| B020 | 66,0 ml/rev | 99,0 | 89,7 | 83,5 | 2,8 | 24,9 | 41,7 |
| B024 | 79,5 ml/rev | 119,3 | 110,0 | 103,8 | 3,0 | 29,6 | 49,8 |
| B028 | 89,7 ml/rev | 134,5 | 125,2 | 119,0 | 3,2 | 33,2 | 55,9 |
| B031 | 98,3 ml/rev | 147,4 | 138,1 | 131,9 | 3,3 | 36,2 | 61,0 |
| B035 | 111,0 ml/rev | 166,5 | 157,2 | 151,0 | 3,5 | 40,7 | 68,7 |
| B038 | 120,3 ml/rev | 180,4 | 171,1 | 164,9 | 3,7 | 43,9 | 74,3 |
| B042 ¹⁾ | 136,0 ml/rev | 204,0 | 194,7 | 188,5 | 4,0 | 49,4 | 83,7 |
| B045 ¹⁾ | 145,7 ml/rev | 218,5 | 209,2 | 203,0 | 4,1 | 52,8 | 89,5 |
| B050 ¹⁾ | 158,0 ml/rev | 237,0 | 227,7 | 224,0 ²⁾ | 4,4 | 57,0 | 85,0 ²⁾ |

¹⁾ B42 - B45 - B50 = 2200 R.P.M. max. ²⁾ B50 = 210 bar max. int. Port connection can be furnished with metric threads.



DTA

Damen Technical Agencies

ANY PART TIME WHERE

we are doing our parts to keep you moving!

Damen Technical Agencies B.V.

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