

Hydraulic Pumps Mobile & Industrial T6*R

Denison Vane Technology, fixed displacement

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

Model No. **T6DRM - B45 - 1 R 00 - A 1 0 - A 1 ..**

Series

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 | |

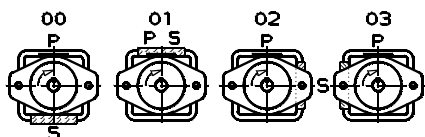
Type of shaft

- 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



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

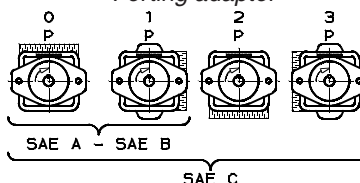
Coupling

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

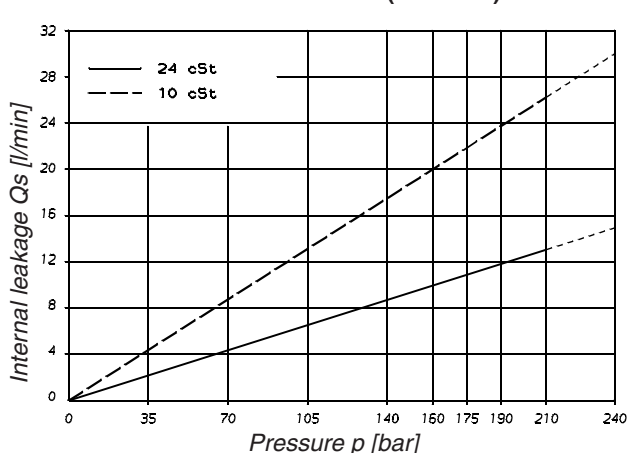
Adaptor

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

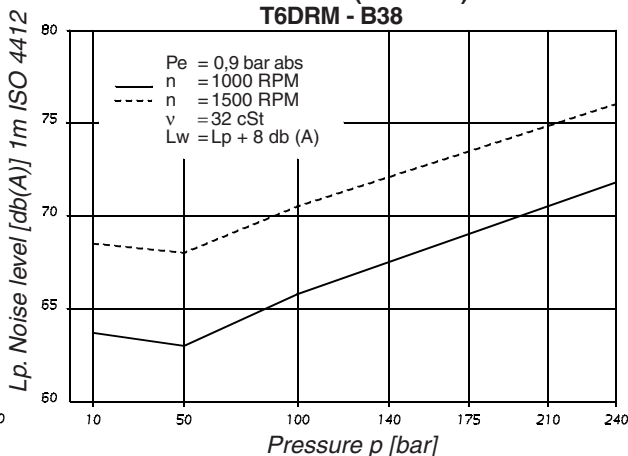
Porting adaptor



INTERNAL LEAKAGE (TYPICAL)

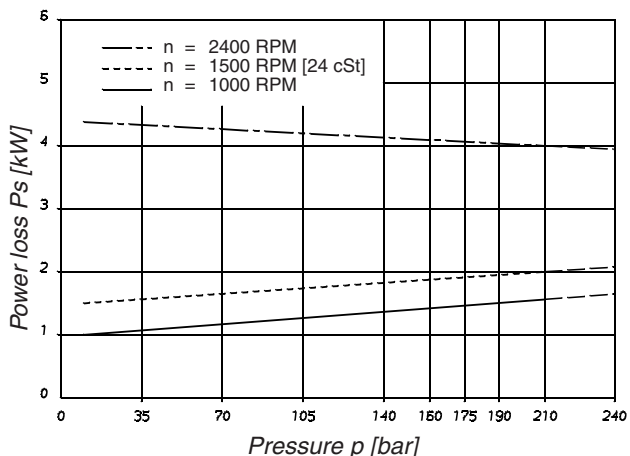


NOISE LEVEL (TYPICAL)
T6DRM - B38

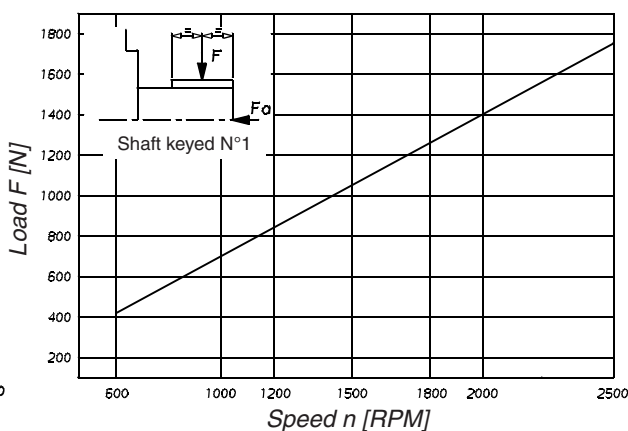


Do not operate the pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow.

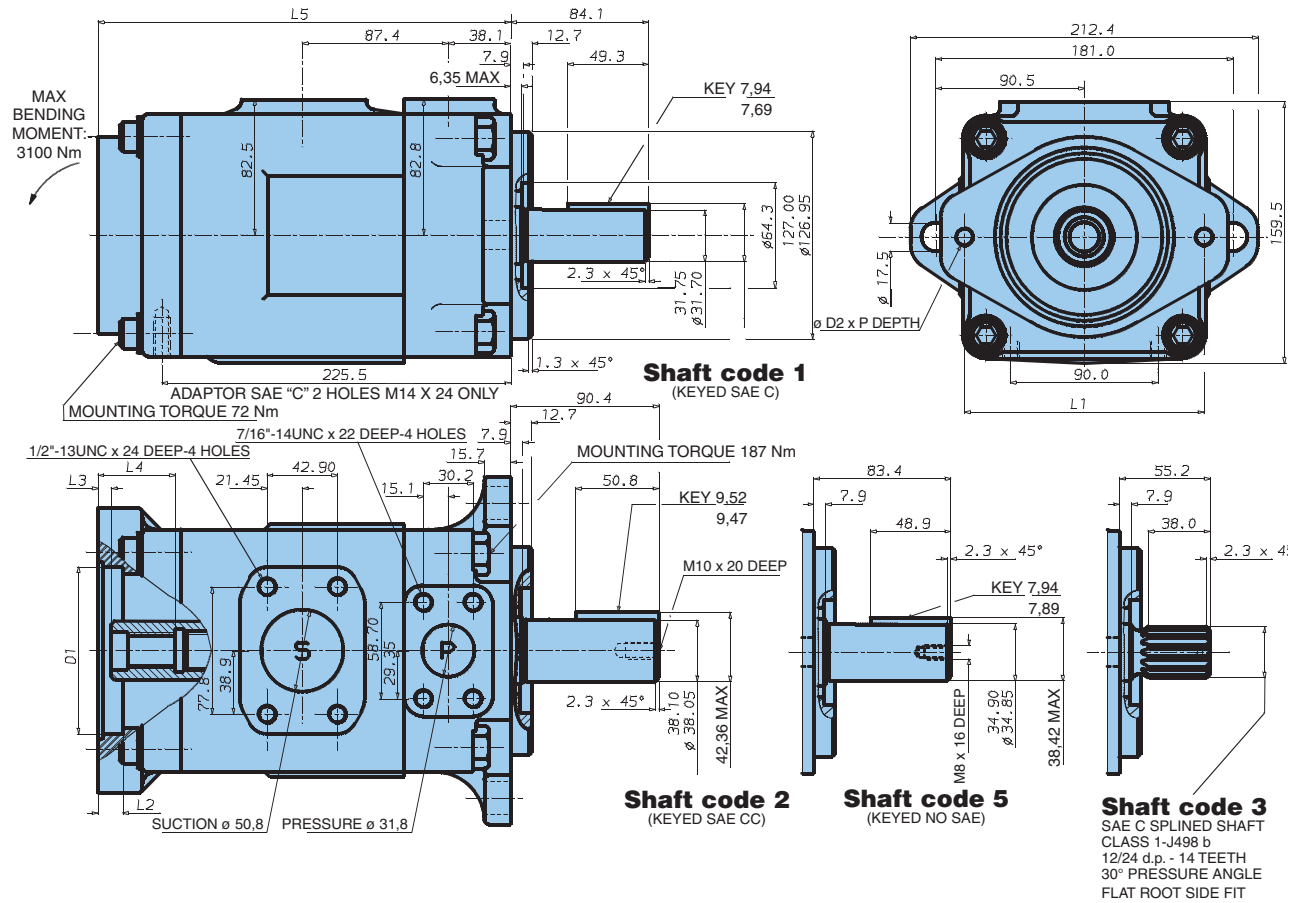
POWER LOSS HYDROMECHANICAL (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N



| 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 |

Weight 32,3 kg

| Adaptor | SAE A | | | SAE B | | 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.

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