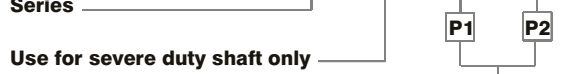


Series **VT6CC W - 022 - 008 - 1 R 00 - C 1 - 00 ***



Use for severe duty shaft only

Cam ring for "P1" & "P2"

Volumetric displacement cm³/rev (in³/rev)

| | |
|----------------------------|----------------------------|
| *003/B03/Y03 = 10.8 (0.66) | 015/B15/Y15 = 50.5 (3.08) |
| 005/B05/Y05 = 17.2 (1.05) | 017/B17/Y17 = 58.3 (3.56) |
| 006/B06/Y06 = 21.3 (1.30) | 020/B20/Y20 = 63.8 (3.89) |
| 008/B08/Y08 = 26.4 (1.61) | 022/B22/Y22 = 70.3 (4.29) |
| 010/B10/Y10 = 34.1 (2.08) | 025/B25/Y25 = 79.3 (4.84) |
| 012/B12/Y12 = 37.1 (2.26) | 028/B28/Y28 = 88.8 (5.42) |
| 014/B14/Y14 = 46.0 (2.81) | 031/B31/Y31 = 100.0 (6.10) |

*'0' - Uni - directional 'B' - Bi - directional 'Y' - Bi - directional for cold start

Type of shaft

- 1 - keyed (no SAE)
- 3 - splined (SAE BB)
- 5 - splined (SAE B)

W version

- 2 - keyed (SAE BB)
- S - splined (DIN 5462)

Modifications

Mounting W/connection variables

| | | P1=1" - S=3" | | P1=1" - S=2 1/2" (n ²) | |
|------|--------|--------------|----------|------------------------------------|----------|
| P2 | | 1" | 3/4" (1) | 1" | 3/4" (1) |
| code | Unc | 00 | 01 | 10 | 11 |
| | Metric | 0M | W0 | 1M | W1 |

- 1) for 46 ml/rev max.
 - 2) for 126 ml/rev max.
- The large cartridge must be always mounted in the front.

Seal class

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

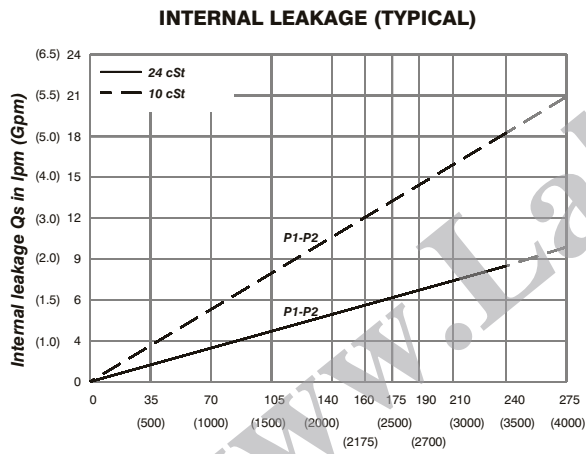
Design letter

Porting combination (see page BM-1-5)

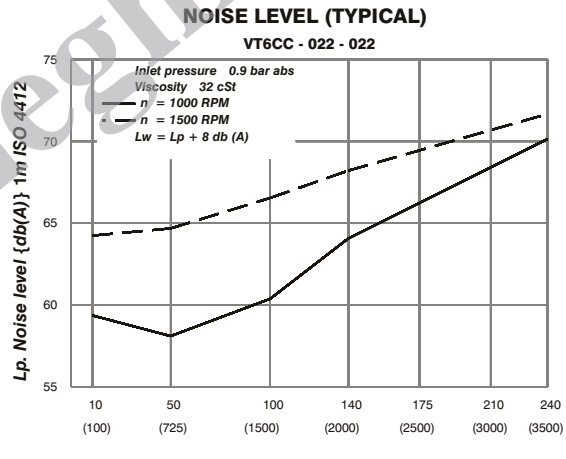
00 - standard

Direction of rotation (view on shaft end)

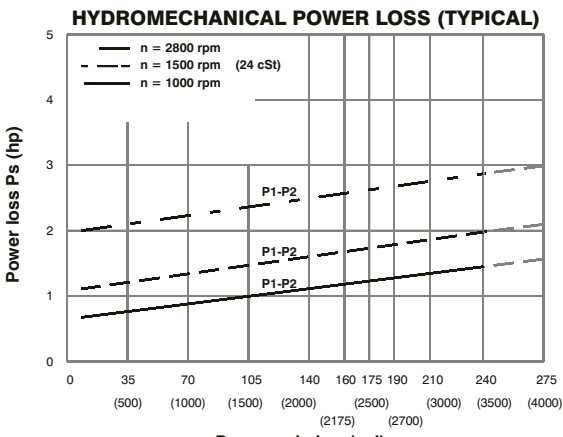
- R - clockwise
- L - counter-clockwise



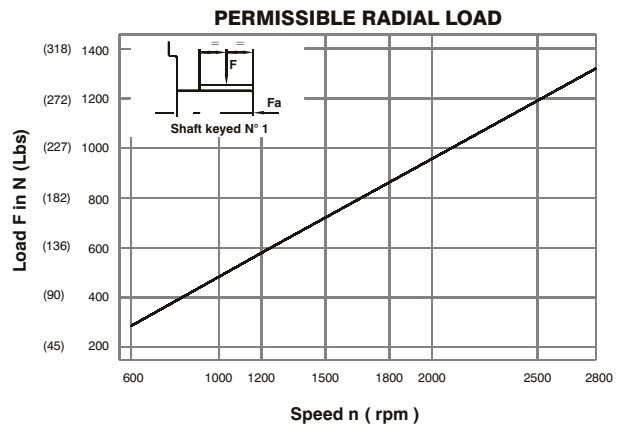
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.



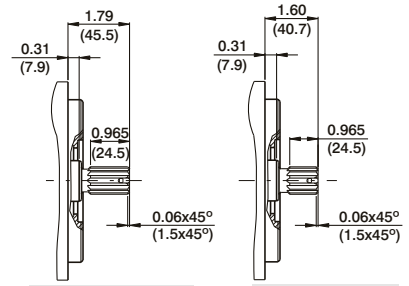
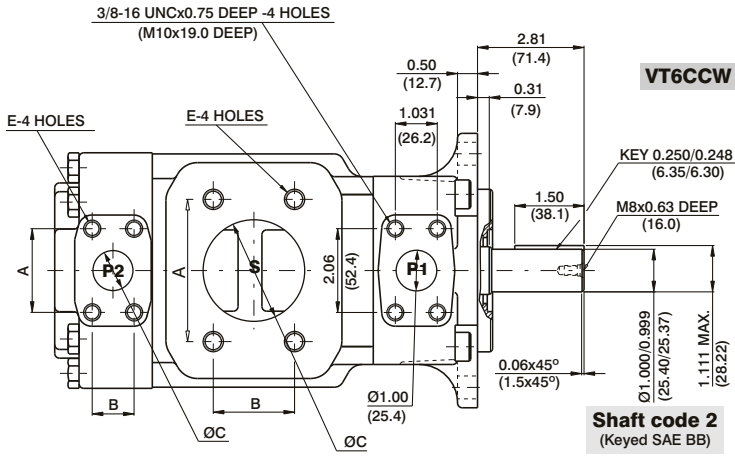
Double pump noise level is given with each section discharging at the pressure noted on the curve.



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

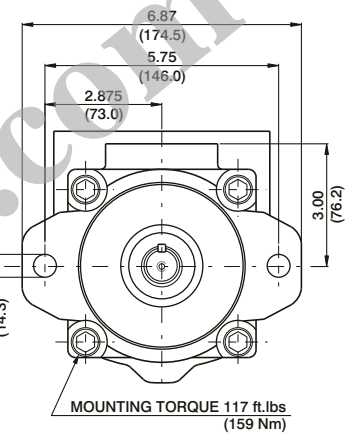
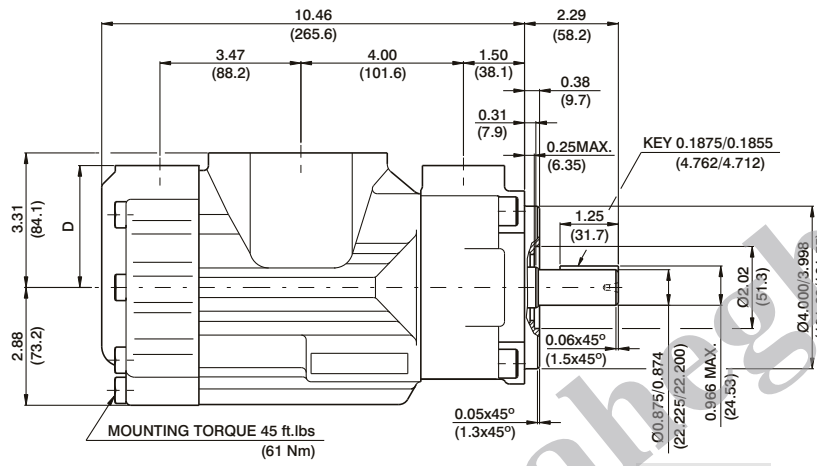


DP



Shaft code 3
SAE BB splined shaft
Class 1-J498b
16/32 dp. 15 teeth
30° pressure angle
Flat root side fit

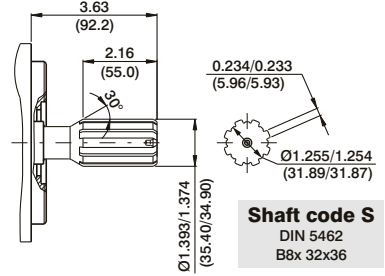
Shaft code 5
SAE B splined shaft
Class 1-J498b
16/32 dp. 13 teeth
30° pressure angle
Flat root side fit



| Shaft | Vp x p max. (P1+P2) |
|-------|---------------------|
| 1 | 12666 (14300) |
| 2 | 18972 (21420) |
| 3 | 28937 (32670) |
| 5 | 18246 (20600) |

Shaft code 1
(Keyed no SAE)

| PORT | A | B | C | D | E |
|------|--------------|--------------|-------------|-------------|---|
| S | 4.19 (106.4) | 2.44 (61.9) | 3.00 (76.2) | | 5/8-11UNC x 1.12 DEEP (M16 x 28.4 DEEP) |
| S | 3.50 (88.9) | 2.00 (50.8) | 2.50 (63.5) | | 1/2-13UNC x 0.94 DEEP M12 x 24.0 DEEP |
| P2 | 1.874 (47.6) | 0.874 (22.2) | 0.75 (19.0) | 3.00 (76.2) | 3/8-16UNC x 0.75 DEEP (M10 x 19.0 DEEP) |
| P2 | 2.06 (52.4) | 1.03 (26.2) | 1.00 (25.4) | 2.94 (74.7) | |



Shaft code S
DIN 5462
B8 x 32 x 36

OPERATING CHARACTERISTICS - TYPICAL (24 cST) (Input power p (KW) for one cartridge only)

| Pressure port | Series | Volumetric Displacement Vp | | Flow q & n = 1500 rpm | | | | | | Input power p & n = 1500 rpm | | | | | |
|---------------------|---------------------|----------------------------|----------------------|------------------------|-------|------------------------|-------|---------------------|-------|------------------------------|-------|------------------------|-------|-------|------|
| | | p = 0 bar (0 psi) | | p = 140 bar (2000 psi) | | p = 240 bar (3500 psi) | | p = 7 bar (100 psi) | | p = 140 bar (2000 psi) | | p = 240 bar (3500 psi) | | | |
| | | in ³ /rev | cm ³ /rev | gpm | lpm | gpm | lpm | gpm | lpm | hp | kw | hp | kw | hp | kw |
| P1 & P2 | 003 | 0.66 | 10.8 | 4.29 | 16.2 | 2.96 | 11.2 | 2.04 | 7.7 | 1.74 | 1.3 | 7.11 | 5.3 | 11.22 | 8.4 |
| | 005 | 1.05 | 17.2 | 6.83 | 25.8 | 5.50 | 20.8 | 4.57 | 17.3 | 1.88 | 1.4 | 10.06 | 7.5 | 16.36 | 12.2 |
| | 006 | 1.30 | 21.3 | 8.44 | 31.9 | 7.11 | 26.9 | 6.19 | 23.4 | 2.01 | 1.5 | 11.94 | 8.9 | 19.71 | 14.7 |
| | 008 | 1.61 | 26.4 | 10.48 | 39.6 | 9.15 | 34.6 | 8.22 | 31.1 | 2.15 | 1.6 | 14.35 | 10.7 | 22.93 | 17.7 |
| | 010 | 2.08 | 34.1 | 13.52 | 51.1 | 12.19 | 46.1 | 11.26 | 42.6 | 2.28 | 1.7 | 18.64 | 13.4 | 29.90 | 22.3 |
| | 012 | 2.26 | 37.1 | 14.71 | 55.6 | 13.36 | 50.6 | 12.46 | 47.1 | 2.28 | 1.7 | 19.31 | 14.4 | 32.32 | 24.1 |
| | 014 | 2.81 | 46.0 | 18.25 | 69.0 | 16.93 | 64.0 | 16.00 | 60.5 | 2.55 | 1.9 | 23.60 | 17.6 | 39.56 | 29.5 |
| | 015 | 3.08 | 50.5 | 20.00 | 75.6 | 18.73 | 73.2 | 19.02 | 67.5 | 2.68 | 2.0 | 25.61 | 19.1 | 42.91 | 32.0 |
| | 017 | 3.56 | 58.3 | 23.12 | 87.4 | 21.79 | 82.4 | 20.87 | 78.9 | 2.82 | 2.1 | 29.37 | 21.9 | 49.48 | 36.9 |
| | 020 | 3.89 | 63.8 | 25.32 | 95.7 | 23.99 | 90.7 | 23.07 | 87.2 | 2.95 | 2.2 | 31.92 | 23.8 | 53.91 | 40.2 |
| | 022 | 4.29 | 70.3 | 27.88 | 105.4 | 26.56 | 100.4 | 25.63 | 96.9 | 3.08 | 2.3 | 35.00 | 26.1 | 59.14 | 44.1 |
| | 025 ¹⁾ | 4.84 | 79.3 | 31.46 | 118.9 | 30.13 | 113.9 | 29.21 | 110.4 | 3.35 | 2.5 | 39.16 | 29.2 | 66.38 | 49.5 |
| | 028 ^{1,2)} | 5.42 | 88.8 | 35.24 | 133.2 | 33.92 | 128.2 | 33.28 | 125.8 | 3.75 | 2.8 | 43.85 | 32.7 | 72.95 | 54.4 |
| 031 ^{1,2)} | 6.10 | 100.0 | 39.68 | 150.0 | 38.35 | 145.0 | 37.72 | 142.6 | 3.75 | 2.8 | 48.95 | 36.5 | 79.95 | 59.4 | |

1) 025-028-031 = 2500 RPM. max. 2) 028-031 = 210 bar (3000 psi) max. int.