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HI-TECH HYDRAULICS

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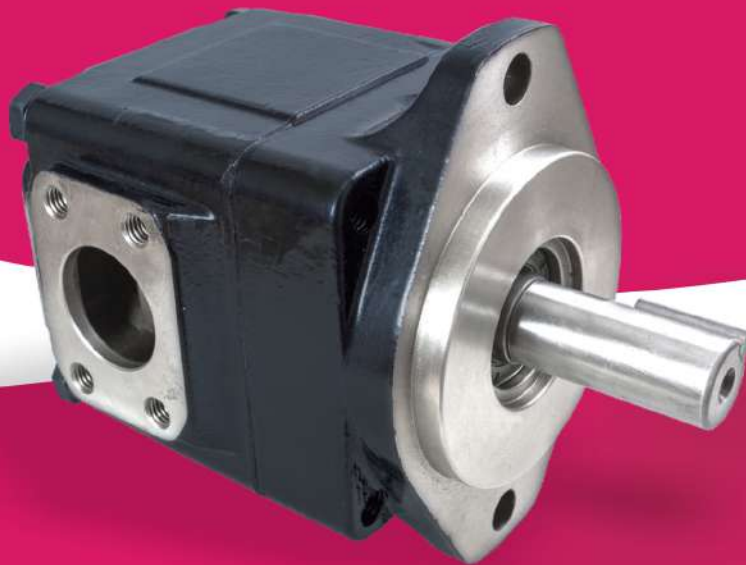
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HIGH PRESSURE SINGLE VANE PUMP VK-T6C



HIGH PRESSURE SINGLE VANE PUMP VK-6D



HI-TECH HYDRAULICS

HIGH PRESSURE SINGLE VANE PUMP VK-T6C



Series VK - T6C - 022 - 1 R 00 - B 1

Cam ring

Volumetric displacement cm³/rev (in³/rev)

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

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

Type of shaft

- keyed (SAE B)
- keyed (no SAE)
- splined (SAE B)
- splined (SAE BB)

Seal class

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

Design letter

Porting combination

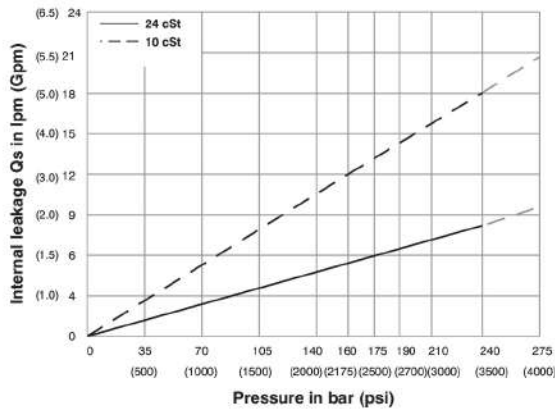
00 - standard

S - Suction port **P** - Pressure port

Direction of rotation (view on shaft end)

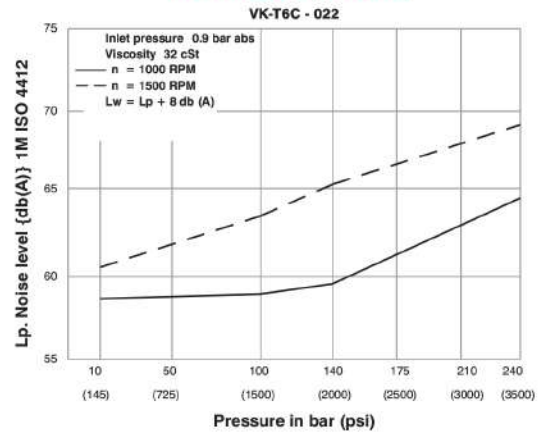
R - clockwise
L - counter-clockwise

INTERNAL LEAKAGE (TYPICAL)

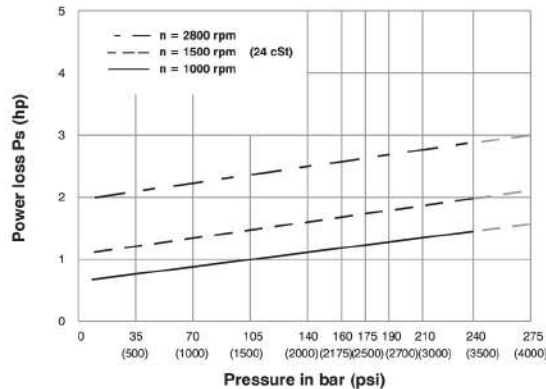


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow.

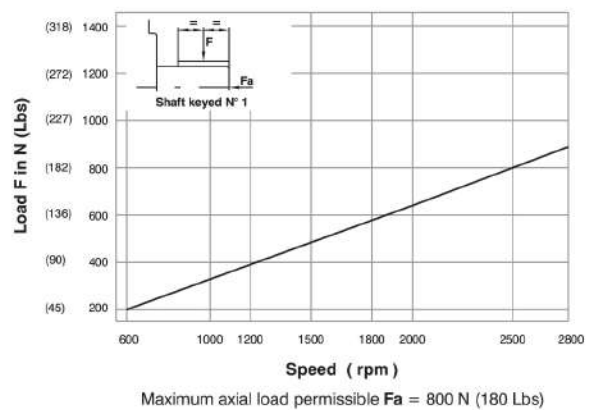
NOISE LEVEL (TYPICAL)



HYDROMECHANICAL POWER LOSS (TYPICAL)

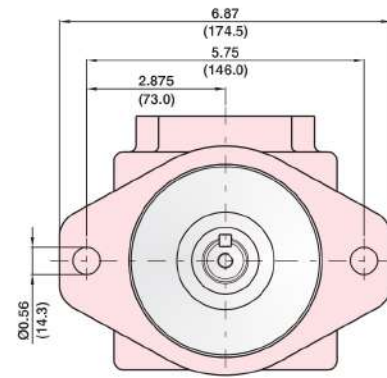
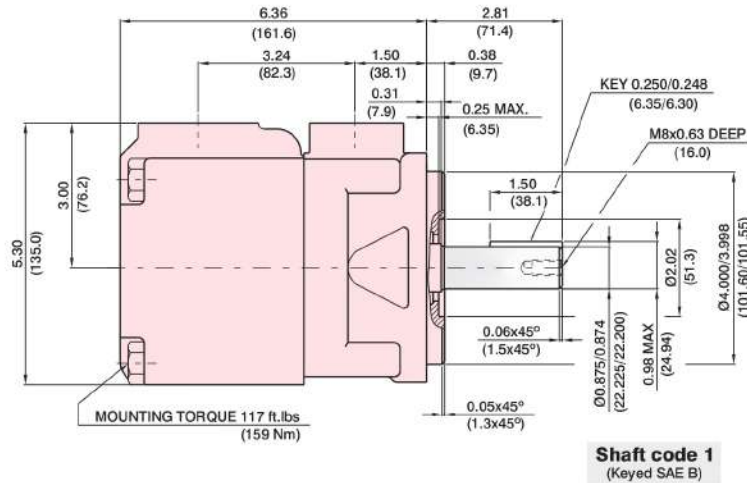
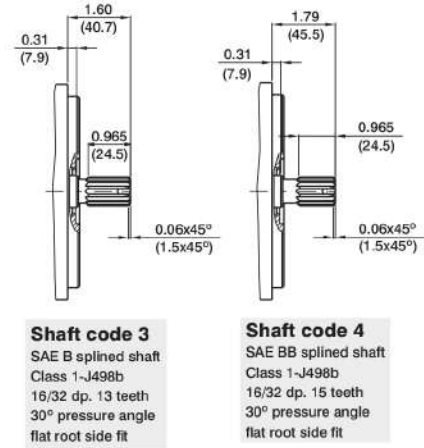
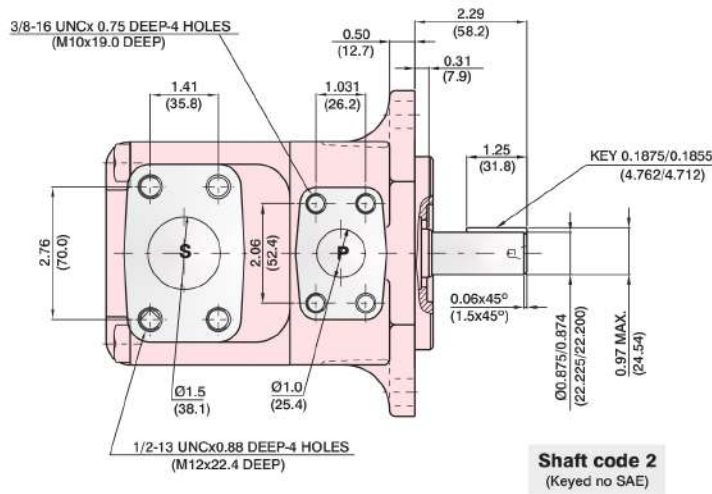


PERMISSIBLE RADIAL LOAD



HI-TECH HYDRAULICS

HIGH PRESSURE SINGLE VANE PUMP VK-T6C



| Shaft torque limits in ² /rev x psi (ml/rev x bar) | |
|---|---------------|
| Shaft | Vp x p max. |
| 1 | 14473 (16500) |
| 2 | 12666 (14300) |
| 3 | 18246 (20600) |
| 4 | 19309 (21821) |

OPERATING CHARACTERISTICS - TYPICAL (24 cST)

| 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 | | |
| VK-T6C | 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 | 11.26 | 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 | 65.04 | 48.5 |
| 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 | 72.95 | 54.4 | |

1) 025-028-031 = 2500 RPM. max.

2) 028-031 = 210 bar (3000 psi) max. int.



HI-TECH HYDRAULICS

HIGH PRESSURE SINGLE VANE PUMP VK-T6D



VK - T6D - 045 - 1 R 00 - B 1

Series

Cam ring

Volumetric displacement cm^3/rev (in^3/rev)

| | |
|------------------------|-------------------------|
| *014/B14 = 47.6 (2.90) | 035/B35 = 111.0 (6.77) |
| 017/B17 = 58.2(3.55) | 038/B38 = 120.3 (7.34) |
| 020/B20 = 66.0 (4.03) | 042/B42 = 136.0 (8.30) |
| 024/B24 = 79.5 (4.85) | 045/B45 = 145.7 (8.89) |
| 028/B28 = 89.7 (5.47) | 050/B50 = 158.0 (9.64) |
| 031/B31 = 98.3 (6.00) | 061/B61 = 190.5 (11.62) |

*'0' - Uni - directional 'B' - Bi - directional

Type of shaft

- 1 - keyed (SAE C)
- 2 - keyed (no SAE)
- 3 - splined (SAE C)
- 4 - splined (no SAE)

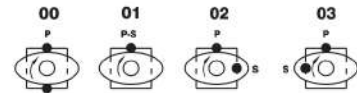
Seal class

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

Design letter

Porting combination

00 - standard

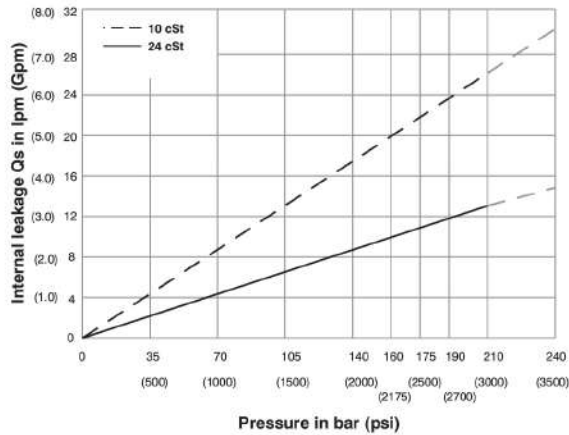


S - Suction port P - Pressure port

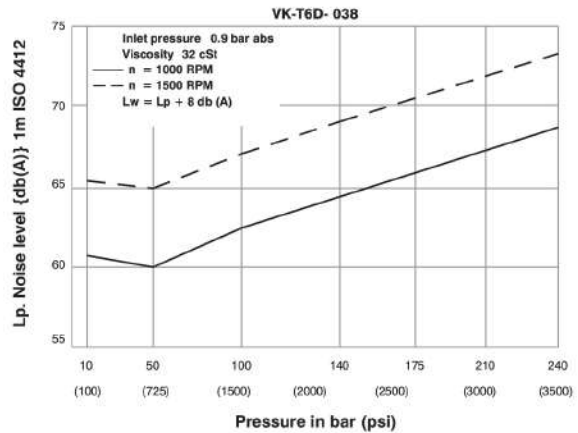
Direction of rotation (view on shaft end)

- R - clockwise
- L - counter-clockwise

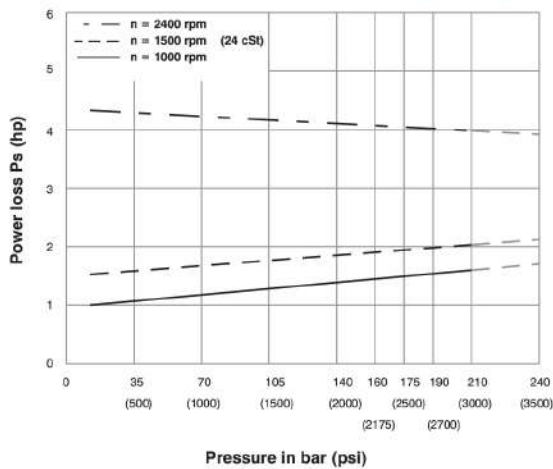
INTERNAL LEAKAGE (TYPICAL)



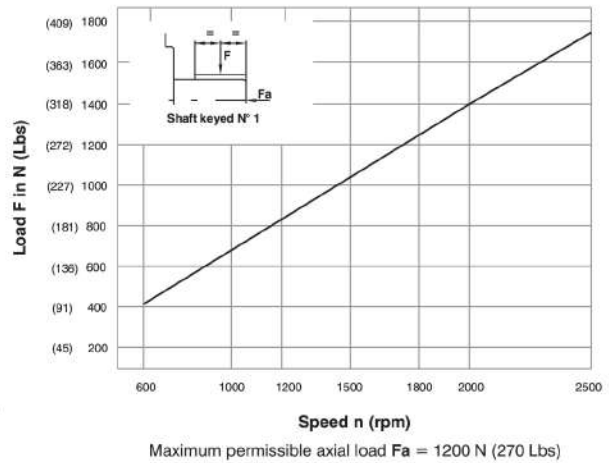
NOISE LEVEL (TYPICAL)



HYDROMECHANICAL POWER LOSS (TYPICAL)

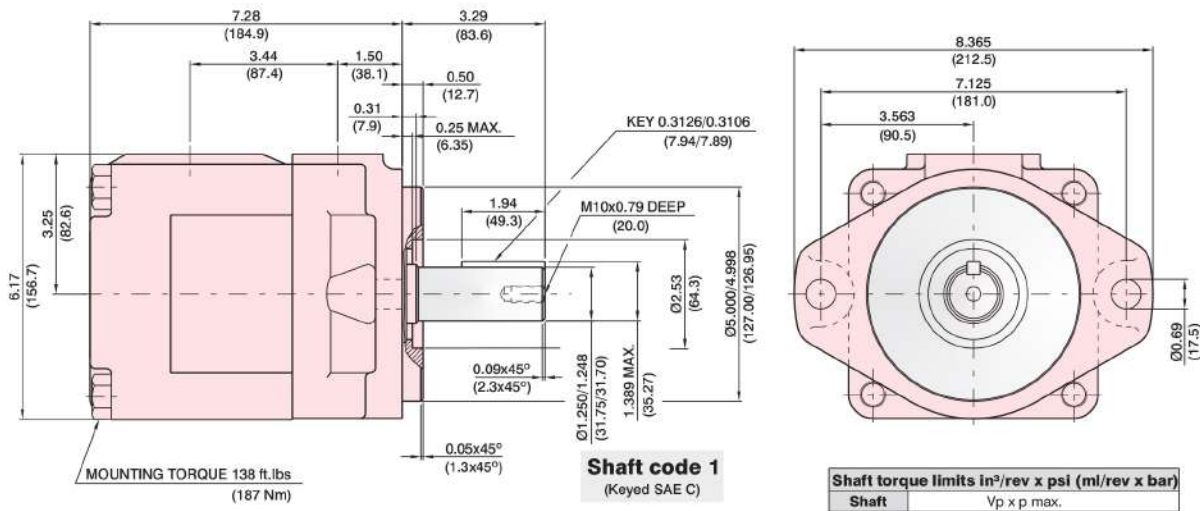
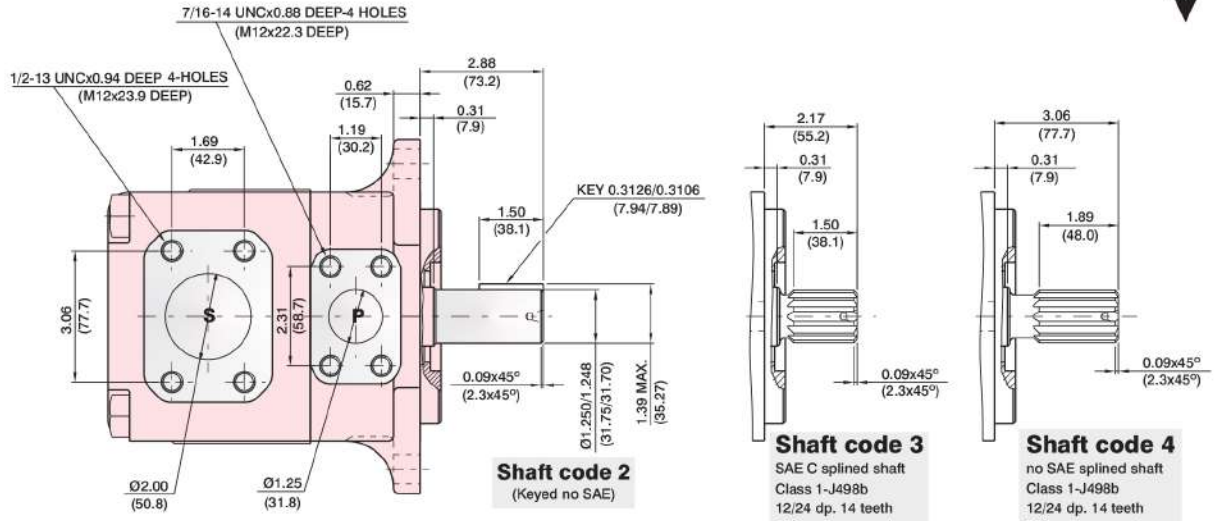


PERMISSIBLE RADIAL LOAD



HI-TECH HYDRAULICS

HIGH PRESSURE SINGLE VANE PUMP VK-T6D



| Shaft | Vp x p max. |
|-------|---------------|
| 1 | 38299 (43283) |
| 2 | 30638 (34590) |
| 3 | 54207 (61200) |
| 4 | 54207 (61200) |

OPERATING CHARACTERISTICS - TYPICAL (24 cST)

| 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 | | | | |
| VK-T6D | 014 | 2.90 | 47.6 | 18.88 | 71.4 | 16.42 | 62.1 | 14.78 | 55.9 | 3.08 | 2.3 | 24.81 | 18.5 | 41.03 | 30.6 | | | | |
| | 017 | 3.55 | 58.2 | 23.1 | 87.3 | 20.6 | 78.0 | 18.99 | 71.8 | 3.35 | 2.5 | 29.77 | 22.2 | 49.62 | 37.0 | | | | |
| | 020 | 4.00 | 66.0 | 26.19 | 99.0 | 23.73 | 89.7 | 22.08 | 83.5 | 3.75 | 2.8 | 33.39 | 24.9 | 55.92 | 41.7 | | | | |
| | 024 | 4.80 | 79.5 | 31.56 | 119.3 | 29.10 | 110.0 | 27.46 | 103.8 | 4.02 | 3.0 | 39.69 | 29.6 | 66.78 | 49.8 | | | | |
| | 028 | 5.50 | 89.7 | 35.58 | 134.5 | 33.12 | 125.2 | 31.48 | 119.0 | 4.29 | 3.2 | 44.52 | 33.2 | 74.96 | 55.9 | | | | |
| | 031 | 6.00 | 98.3 | 39.00 | 147.5 | 36.53 | 138.1 | 34.89 | 131.9 | 4.42 | 3.3 | 48.54 | 36.2 | 81.80 | 61.0 | | | | |
| | 035 | 6.80 | 111.0 | 44.04 | 166.5 | 41.58 | 157.2 | 39.94 | 151.0 | 4.69 | 3.5 | 54.58 | 40.7 | 92.13 | 68.7 | | | | |
| | 038 | 7.30 | 120.3 | 47.72 | 180.4 | 45.26 | 171.1 | 43.62 | 164.9 | 4.96 | 3.7 | 58.87 | 43.9 | 99.64 | 74.3 | | | | |
| | 042 ¹⁾ | 8.30 | 136.0 | 53.96 | 204.0 | 51.50 | 194.7 | 49.86 | 188.5 | 5.36 | 4.0 | 66.25 | 49.4 | 112.24 | 83.7 | | | | |
| | 045 ¹⁾ | 8.89 | 145.7 | 57.80 | 218.5 | 55.34 | 209.2 | 53.70 | 203.0 | 5.50 | 4.1 | 70.81 | 52.8 | 120.02 | 89.5 | | | | |
| | 050 ^{1,2)} | 9.64 | 158.0 | 62.69 | 237.0 | 60.23 | 227.7 | 59.25 | 224.0 | 5.90 | 4.4 | 76.44 | 57.0 | 113.98 | 85.0 | | | | |
| 061 ^{1,3)} | 11.62 | 190.5 | 76.25 | 285.7 | 73.54 | 278.0 | -- | -- | 6.16 | 4.6 | 81.26 | 60.6 | -- | -- | | | | | |

1) 042-045-050-061=2200 RPM max.
 2) 050=210 bar (3000 psi) max. int.
 3) 061 = 120 bar (1740 psi) max. int, 061 = 80 bar (1160 psi) cont.



HI-TECH HYDRAULICS

HIGH PRESSURE DOUBLE VANE PUMP VK-T6CC



Series **VK - T6CC - 022 - 008 - 1 R 00 - C 1 - 00**

Cam ring for "P1" & "P2"

Volumetric displacement cm^3/rev (in³/rev)

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

*'0' - Uni - directional 'B' - Bi - directional

Type of shaft

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

Mounting W/connection variables

| P2 code | P1=1" - S=3" | | P1=1" - S=2 ^{1/2} " ⁽²⁾ | |
|---------|--------------|---------------------|---|---------------------|
| | 1" | 3/4" ⁽¹⁾ | 1" | 3/4" ⁽¹⁾ |
| 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

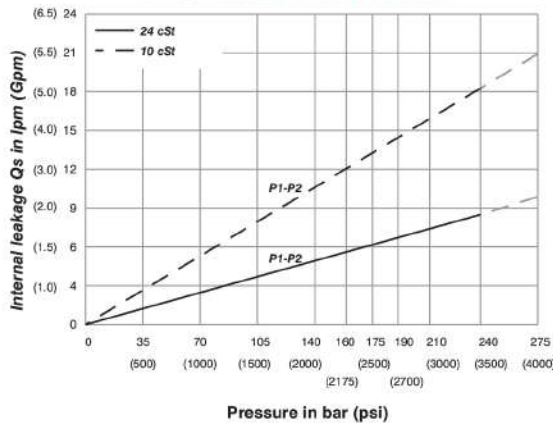
Porting combination (see page BM-1-5)

00 - standard

Direction of rotation (view on shaft end)

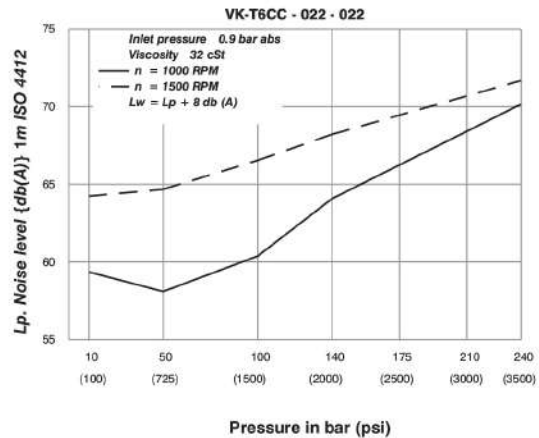
- R - clockwise
- L - counter-clockwise

INTERNAL LEAKAGE (TYPICAL)



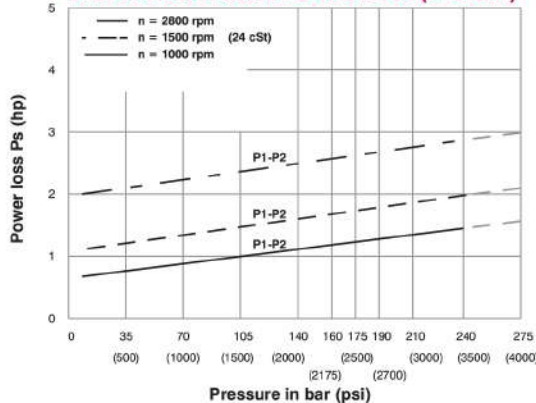
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.

NOISE LEVEL (TYPICAL)



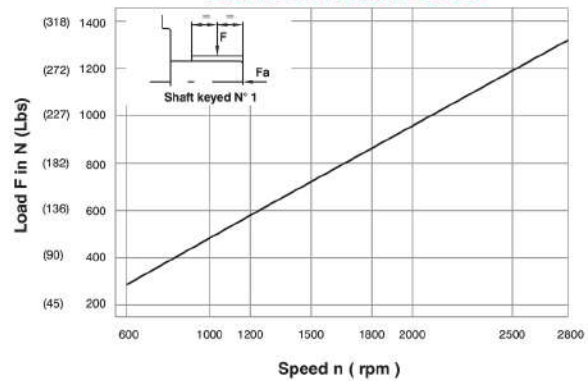
Double pump noise level is given with each section discharging at the pressure noted on the curve.

HYDROMECHANICAL POWER LOSS (TYPICAL)



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

PERMISSIBLE RADIAL LOAD

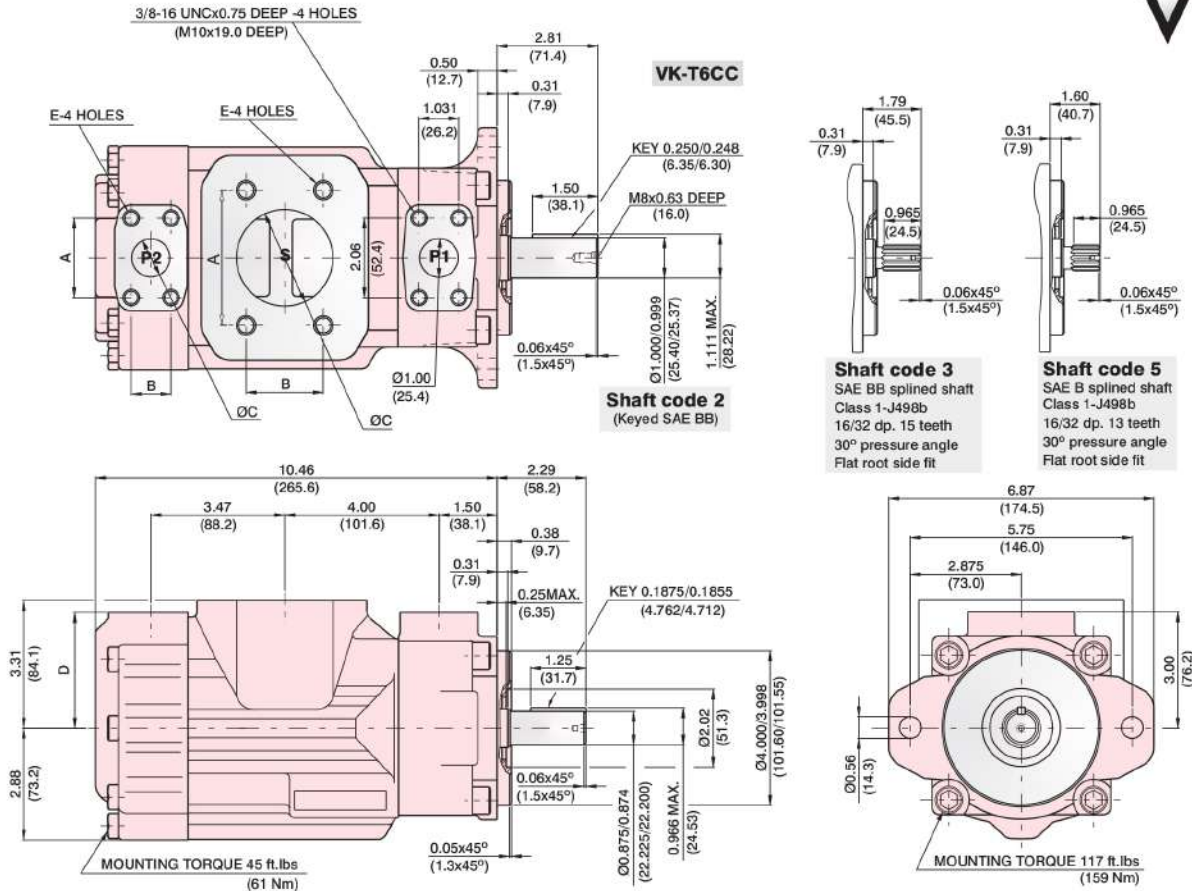


Maximum axial load permissible $F_a = 800 \text{ N (180 Lbs)}$



HI-TECH HYDRAULICS

HIGH PRESSURE DOUBLE VANE PUMP VK-T6CC



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

| PORT | A | B | C | D | E |
|------|--------------|--------------|-------------|-------------|-------------------------------------|
| S | 4.19 (106.4) | 2.44 (61.9) | 3.00 (76.2) | | 5/8-11UNCx1.12 DEEP (M16x28.4 DEEP) |
| S | 3.50 (88.9) | 2.00 (50.8) | 2.50 (63.5) | | 1/2-13UNCx0.94 DEEP M12x24.0 DEEP |
| P2 | 1.874 (47.6) | 0.874 (22.2) | 0.75 (19.0) | 3.00 (76.2) | 3/8-16UNCx0.75 DEEP (M10x19.0 DEEP) |
| P2 | 2.06 (52.4) | 1.03 (26.2) | 1.00 (25.4) | 2.94 (74.7) | |

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 | | | | | |
|---------------|---------------------|----------------------------|----------------------|-----------------------|-------|------------------------|-------|------------------------|-------|------------------------------|-----|------------------------|------|------------------------|------|
| | | Displacement Vp | | 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 | 73.04 | 54.5 |
| | 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 | 80.95 | 60.4 |

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



HI-TECH HYDRAULICS

HIGH PRESSURE DOUBLE VANE PUMP VK-T6DC



Series **VK - VT6DC - 038 - 022 1 R 00 - B 1 00**

Cam ring for "P1"

Volumetric displacement cm³/rev (in³/rev)

| | |
|------------------------|-------------------------|
| *014/B14 = 47.6 (2.90) | 035/B35 = 111.0 (6.77) |
| 017/B17 = 58.2 (3.55) | 038/B38 = 120.3 (7.34) |
| 020/B20 = 66.0 (4.03) | 042/B42 = 136.0 (8.30) |
| 024/B24 = 79.5 (4.85) | 045/B45 = 145.7 (8.89) |
| 028/B28 = 89.7 (5.47) | 050/B50 = 158.0 (9.64) |
| 031/B31 = 98.3 (6.00) | 061/B61 = 190.5 (11.62) |

*'0' - Uni - directional 'B' - Bi - directional

Cam ring for "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

Mounting W/connection variables

| | UNC | | METRIC | |
|----|-----|------|--------|------|
| | 00 | 01 | M0 | M1 |
| P2 | 1" | 3/4" | 1" | 3/4" |

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

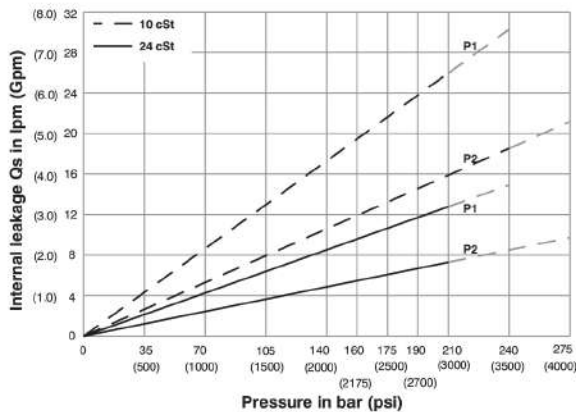
Type of shaft

- 1 - keyed (SAE C)
- 2 - keyed (no SAE)
- 3 - splined (SAE C)
- 4 - splined (no SAE)

Sever duty (VT6DCW only)

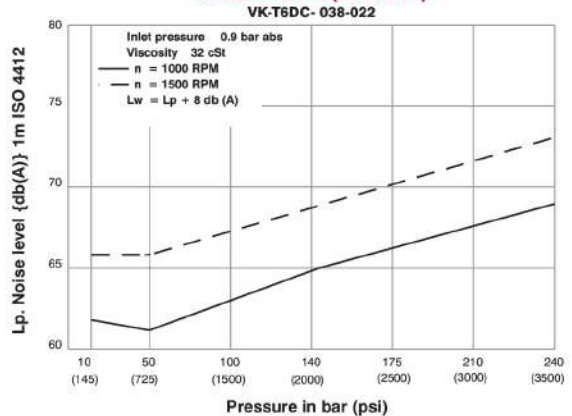
- 5 - keyed (no SAE)

INTERNAL LEAKAGE (TYPICAL)



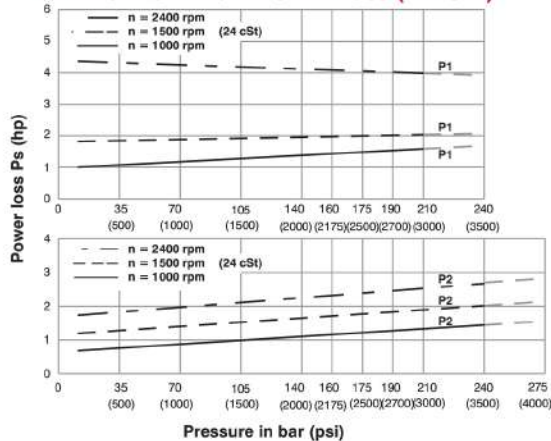
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.

NOISE LEVEL (TYPICAL)



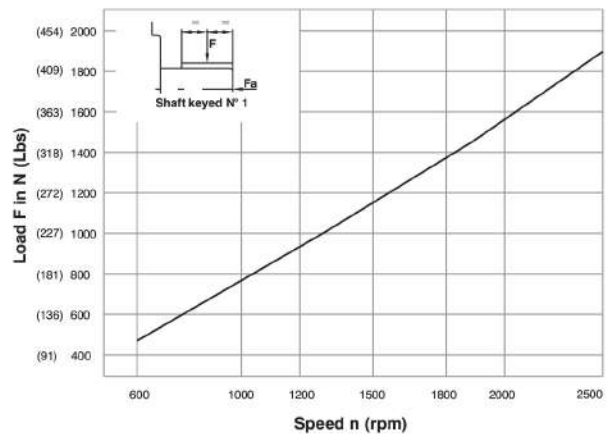
Double pump noise level is given with each section discharging at the pressure noted on the curve.

HYDROMECHANICAL POWER LOSS (TYPICAL)



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

PERMISSIBLE RADIAL LOAD

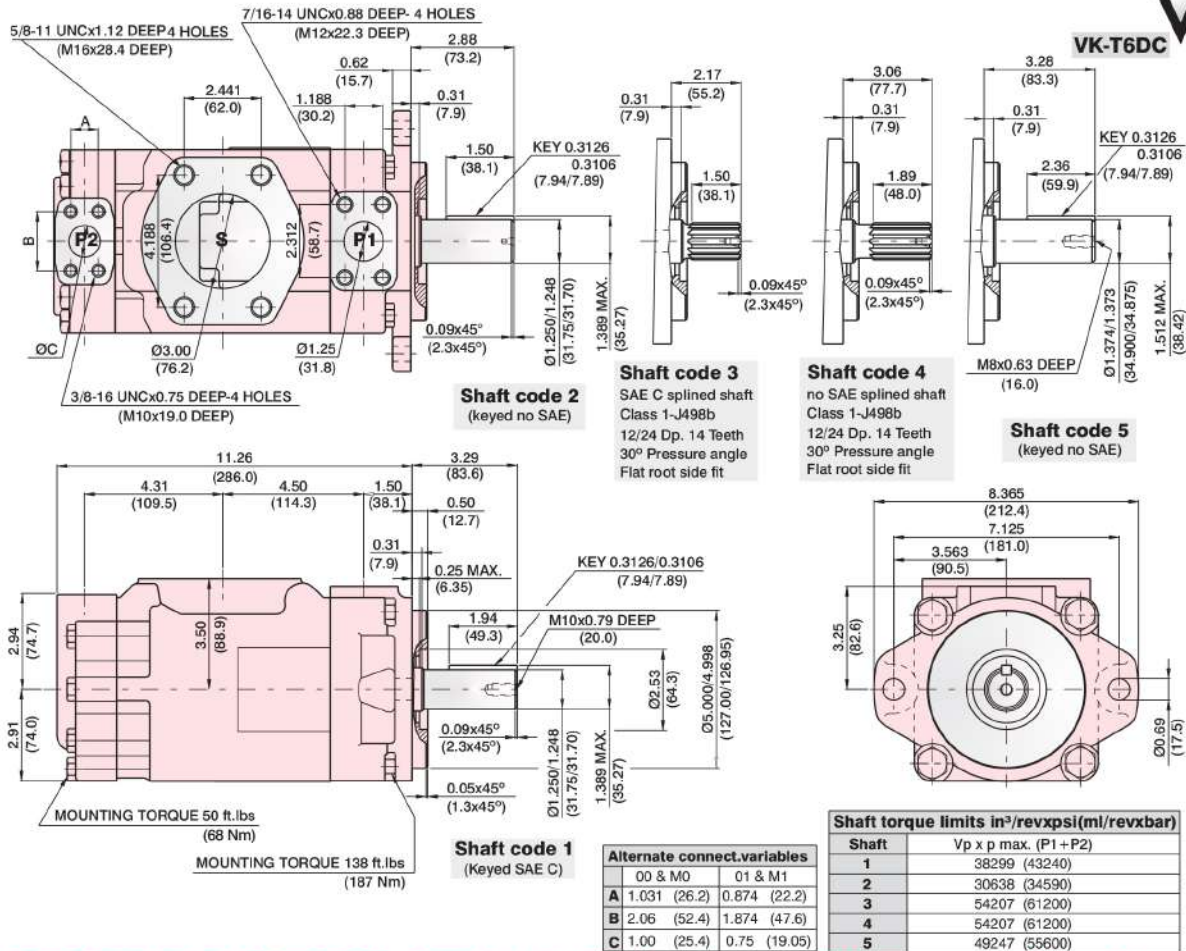


Maximum permissible axial load Fa = 1200 N (270 Lbs)



HI-TECH HYDRAULICS

HIGH PRESSURE DOUBLE VANE PUMP VK-T6DC



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 | | | | | |
|-------------------|---------------------|----------------------------|----------------------|-----------------------|-------|------------------------|-------|------------------------|-------|------------------------------|-------|------------------------|-------|------------------------|-------|
| | | in ³ /rev | cm ³ /rev | 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) | |
| | | | | gpm | lpm | gpm | lpm | gpm | lpm | hp | kw | hp | kw | hp | kw |
| P1 | 014 | 2.90 | 47.6 | 18.88 | 71.4 | 16.42 | 62.1 | 14.78 | 55.9 | 3.08 | 2.3 | 24.81 | 18.5 | 41.03 | 30.6 |
| | 017 | 3.55 | 58.2 | 23.1 | 87.3 | 20.6 | 78.0 | 18.99 | 71.8 | 3.35 | 2.5 | 29.77 | 22.2 | 49.62 | 37.0 |
| | 020 | 4.00 | 66.0 | 26.19 | 99.0 | 23.73 | 89.7 | 22.08 | 83.5 | 3.75 | 2.8 | 33.39 | 24.9 | 55.92 | 41.7 |
| | 024 | 4.80 | 79.5 | 31.56 | 119.3 | 29.10 | 110.0 | 27.46 | 103.8 | 4.02 | 3.0 | 39.69 | 29.6 | 66.78 | 49.8 |
| | 028 | 5.50 | 89.7 | 35.58 | 134.5 | 33.12 | 125.2 | 31.48 | 119.0 | 4.29 | 3.2 | 44.52 | 33.2 | 74.96 | 55.9 |
| | 031 | 6.00 | 98.3 | 39.00 | 147.5 | 36.53 | 138.1 | 34.89 | 131.9 | 4.42 | 3.3 | 48.54 | 36.2 | 81.80 | 61.0 |
| | 035 | 6.80 | 111.0 | 44.04 | 166.5 | 41.58 | 157.2 | 39.94 | 151.0 | 4.69 | 3.5 | 54.58 | 40.7 | 92.13 | 68.7 |
| | 038 | 7.30 | 120.3 | 47.72 | 180.4 | 45.26 | 171.1 | 43.62 | 164.9 | 4.96 | 3.7 | 58.87 | 43.9 | 99.64 | 74.3 |
| | 042 ¹⁾ | 8.30 | 136.0 | 53.96 | 204.0 | 51.50 | 194.7 | 49.86 | 188.5 | 5.36 | 4.0 | 66.25 | 49.4 | 112.24 | 83.7 |
| | 045 ¹⁾ | 8.89 | 145.7 | 57.80 | 218.5 | 55.34 | 209.2 | 53.70 | 203.0 | 5.50 | 4.1 | 70.81 | 52.8 | 120.02 | 89.5 |
| | 050 ^{1,2)} | 9.64 | 158.0 | 62.69 | 237.0 | 60.23 | 227.7 | 59.25 | 224.0 | 5.90 | 4.4 | 76.44 | 57.0 | 113.98 | 85.0 |
| | 061 ^{1,3)} | 11.62 | 190.5 | 76.25 | 285.7 | 73.54 | 278.0 | — | — | 6.16 | 4.6 | 81.26 | 60.6 | — | — |
| | 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 |
| 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 | | 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 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 | 65.04 | 48.5 |
| 031 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 | 72.95 | 54.4 | |

1) 042-045-050-061=2200 RPM max.

2) 028-031-050=210 bar (3000 psi) max. int.

3) 061 = 120 bar (1740 psi) max. int., 061 = 80 bar (1160 psi) cont.



HI-TECH HYDRAULICS

V VARRAK

H Y D R A U L I C S

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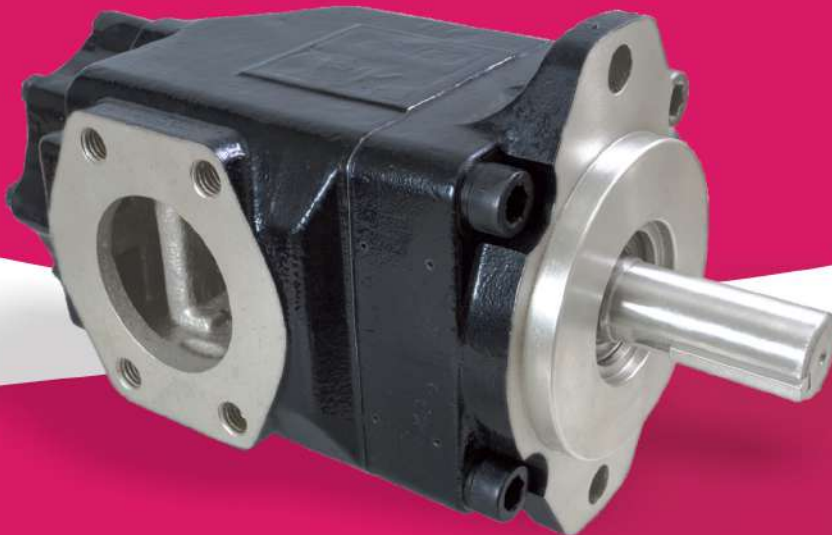
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HIGH PRESSURE DOUBLE VANE PUMP VK-T6CC



HIGH PRESSURE DOUBLE VANE PUMP VK-T6DC



HI-TECH HYDRAULICS



V **VARAK**
HYDRAULICS



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