

Hydraulic Single Vane Pumps HT6 & HT7 Series

Catalogue 2025



BUREAU
VERITAS

Bureau Veritas Certification

FLO-TECH ENGINEERING CO., LTD.

47 SOI SUKSAWAD 14/18 JOMTONG, JOMTONG, BANGKOK 10150 THAILAND

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015

Scope of certification

**DESIGN & DEVELOP, PRODUCTION AND TRADING OF HYDRAULIC PUMP,
HYDRAULIC MOTOR, HYDRAULIC VALVE, PNEUMATIC VALVE,
POWER UNIT AND HYDRAULIC ACCESSORIES**

| | |
|---|---------------|
| Original cycle start date: | 17 March 2009 |
| Expiry date of previous cycle: | NA |
| Certification / Recertification Audit date: | NA |
| Certification / Recertification cycle start date: | 16 March 2024 |
| Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: | 16 March 2027 |

Certificate No.: TH022197

Version: 1

Issue date: 16 March 2024



0008

Signed on behalf of BVCH SAS UK Branch

Certification Body Address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom

Local Office: Bureau Veritas Certification (Thailand) Ltd. 16th Floor, Bangkok Tower, 2170 New Petchburi Road, Bangkapi, Huaykwang, Bangkok 10310, Thailand

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: 66 2 670 4800



HOF Hydraulic Solutions Warranty Policy

Warranty

Flowlution Co.,Ltd, sole distributor of "HOF Hydraulic Solutions", Warrants all of its products to be free from defects in material and workmanship under normal operating conditions and proper application in accordance with the specifications for operation as described by the manufacturer for the period of twelve (12) months in service.

Limitations on Warranty

This Warranty is expressly in lieu of any other warranties expressed or implied. Buyer's sole and exclusive remedy under this Warranty shall be limited to the repair, replacement or exchange of warranted products at our option, F.O.B. our factory, or designated service center.

No special, incidental, consequential or other damage shall be recoverable. Flowlution Co.,Ltd shall not be liable for consequential damages or contingent liabilities including, but not limited to, loss of life, personal injury, loss of crops, loss due to fire or water damage, loss of business or business income, down time costs and trade or other commercial loss arising out of the failure of the product. Flowlution Co.,Ltd will in no event be liable for any sum in excess of the price received by it for the product for which liability is claimed or asserted.

No product shall be returned without prior authorization from Flowlution Co.,Ltd. Buyers and their agents shall prepay all transportation charges for the return of such products to Flowlution Co.,Ltd's factory or designated service center. There will be no acceptance of any charges for labor and/or parts incidental to the removal or remounting of product repaired or replaced under this Warranty.

The above Warranty does not cover conditions over which Flowlution Co.,Ltd has no control, including, without limitation, contamination, pressures in excess of recommended maximum, products damaged or subject to accident abuse or misuse after shipment from our factory, products altered or repaired by anyone other than Flowlution Co.,Ltd personnel, authorized Flowlution Co.,Ltd factory personnel or persons so designated in writing by Flowlution Co.,Ltd prior to commencement of said work.

A return goods authorization number must be obtained from Flowlution Co.,Ltd or Flowlution Co.,Ltd's authorized Service center, or Flowlution Co.,Ltd's authorized agent prior to any products being returned for Warranty.

For more details please contact info@flowlution.com or contact@hofhydraulic.com



High Pressure Single Vane Pump

HT7B/HT7BS Series

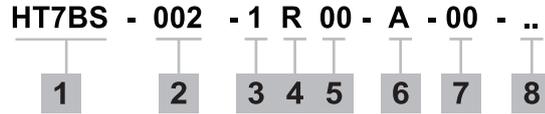
Specification

HT7B, HT7BS for Single pump

| Size | Displacement cm ³ /r 1(in ³ /r) | Max. Intermittent Pressure bar (psi) | Max. Continuous Pressure bar (psi) | Min. Speed rpm | Max. Speed rpm | Weight |
|------|--|---|---|----------------------|----------------------|-------------|
| 002 | 5.8 (0.35) | 320 (4640) | 290 (4200) | 600 | 3600 | 23.5 (51.8) |
| 003 | 9.8 (0.59) | | | | | |
| 004 | 12.8 (0.78) | | | | | |
| 005 | 15.9 (0.97) | | | | | |
| 006 | 19.8 (1.20) | | | | | |
| 007 | 22.5 (1.37) | | | | | |
| 008 | 24.9 (1.51) | | | | | |
| 009 | 28.0 (1.70) | 300 (4350) | 275 (4000) | 3000 | 23.5 (51.8) | |
| 010 | 31.8 (1.94) | | | | | |
| 011 | 35.0 (2.13) | | | | | |
| 012 | 41.0 (2.50) | | | | | |
| 014 | 45.0 (2.74) | 280 (4060) | 240 (3500) | | | |
| 015 | 50.0 (3.05) | | | | | |

High Pressure Single Vane Pump HT7B/HT7BS Series

Ordering Code : Single Pump



1. Model :
 Industrial - HT7B ISO 2 bolts 3019-2 mounting flange 100 A2 HW
 - HT7BS SAE B 2 bolts mounting flange J744

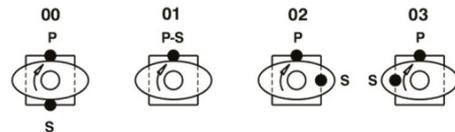
2. Displacement
 Volumetric displacement cm³/rec (in³/rev)
 002 - 5.8 (0.35)
 003 - 9.8 (0.60)
 004 - 12.8 (0.78)
 005 - 15.9 (0.97)
 006 - 19.8 (1.20)
 007 - 22.5 (1.37)
 008 - 24.9 (1.51)
 009 - 28.0 (1.70)
 010 - 31.8 (1.92)
 011 - 35.0 (2.14)
 012 - 41.0 (2.47)
 014 - 45.0 (2.70)
 015 - 50.0 (3.01)

3. Type of shaft
 HT7B, HT7BS
 2 - ISO R775-G38M Keyed Shaft

 HT7BS
 1 - SAE B Keyed Shaft
 3 - SAE B Splined Shaft
 4 - SAE BB Splined Shaft

4. Direction of rotation (Viewed from shaft end)
 R - Turn right
 L - Turn left

5. Porting combination
 00 - standard



S - Suction port P - Pressure port

6. Design letter

7. Port Connection (4 bolts SAE flange J518C)
 00 - UNC Port Connection (Except HT7B)
 M0 - Metric Port Connection

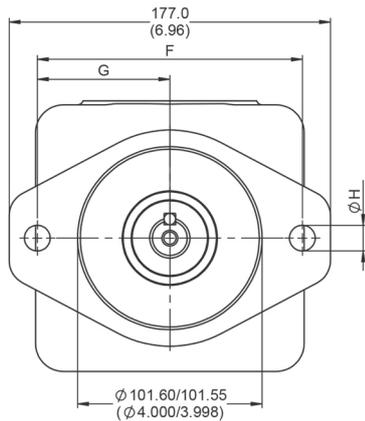
| Code | | 4 bolt SAE flanges | |
|------|--------|--------------------|--------|
| UNC | Metric | P1 | S |
| 00 | M0 | 1" | 1 1/2" |
| 01 | M1 | 3/4" | 1 1/2" |

8. Modifications
 Omit - Standard
 718 - Surface grinding the flange face for the manifold.

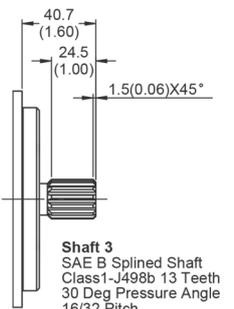
High Pressure Single Vane Pump HT7B/HT7BS Series

Installation Dimension mm (inch)

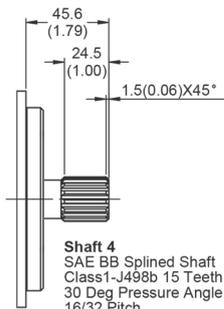
HT7B, HT7BS



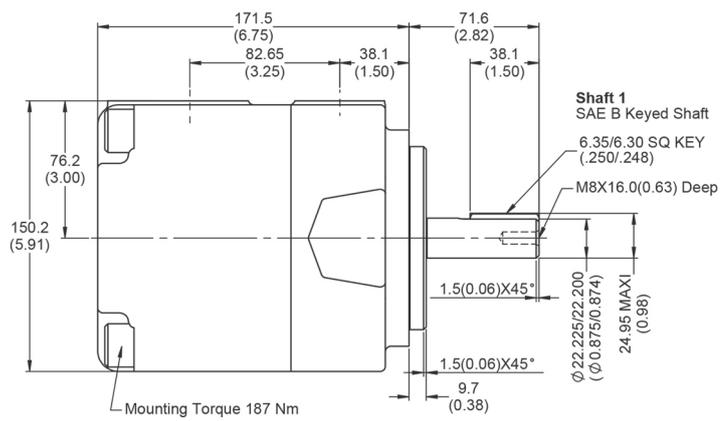
HT7BS
(FLANGE SAE B)



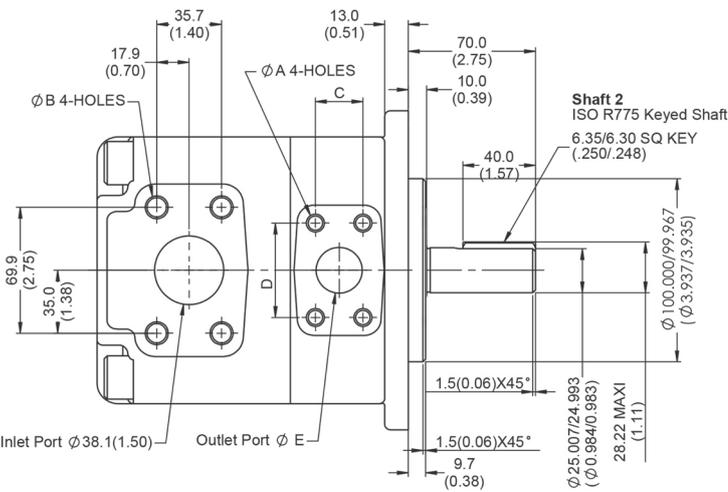
Shaft 3
SAE B Splined Shaft
Class1-J498b 13 Teeth
30 Deg Pressure Angle
16/32 Pitch
Major Dia.
21.79/21.54(0.858/0.848)
Minor Dia.
18.62/18.34(0.733/0.722)
Flat root side fit



Shaft 4
SAE BB Splined Shaft
Class1-J498b 15 Teeth
30 Deg Pressure Angle
16/32 Pitch
Major Dia.
24.98/24.71(0.983/0.973)
Minor Dia.
21.80/21.53(0.858/0.848)
Flat root side fit



Shaft 1
SAE B Keyed Shaft
6.35/6.30 SQ KEY
(.250/.248)
M8X16.0(0.63) Deep



Shaft 2
ISO R775 Keyed Shaft
6.35/6.30 SQ KEY
(.250/.248)

HT7B
(FLANGE ISO 3019/2 100A 2HW)

| Model | HT7B/BS | | HT7BS | |
|-------|-----------------|-------|--------------------------|-------|
| Code | M0 | M1 | 00 | 01 |
| ØA | M10 x19.0 DEEP | | 3/8"-16 UNC x 19.0 DEEP | |
| ØB | M12 x 22.4 DEEP | | 1/2" -13 UNC x 22.4 DEEP | |
| C | 26.2 | 22.25 | 26.2 | 22.25 |
| D | 52.4 | 47.65 | 52.4 | 47.65 |
| ØE | 25.4 | 19.1 | 25.4 | 19.1 |
| F | 140.0 | | 146.0 | |
| G | 70.0 | | 73.0 | |
| ØH | 14.0 | | 14.3 | |

| Shaft torque limits [ml/rev. x bar] | |
|-------------------------------------|-------------------------|
| Shaft | V _i x p max. |
| 1 | 16500 |
| 2 | 20600 |
| 3 | |
| 4 | |

High Pressure Single Vane Pump HT7B/HT7BS Series

Performance Characteristics

HT7B, HT7BS

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

| Series | Volumetric Displacement | Speed n [R.P.M] | Flow Q [GPM] | | | Input power P [HP] | | |
|--------|---------------------------|-----------------|--------------|--------------|---------------------|--------------------|--------------|---------------------|
| | | | p = 0 PSI | p = 2000 PSI | p = 4650 PSI | p = 100 PSI | p = 2000 PSI | p = 4650 PSI |
| 02 | 0.35 in ³ /rev | 1500 | 2.29 | 1.84 | 1.26 | 0.67 | 3.48 | 7.23 |
| 03 | 0.59 in ³ /rev | | 3.88 | 3.43 | 2.85 | 0.80 | 5.36 | 11.52 |
| 04 | 0.78 in ³ /rev | | 5.07 | 4.62 | 4.04 | 0.80 | 6.70 | 14.74 |
| 05 | 0.97 in ³ /rev | | 6.31 | 5.86 | 5.28 | 0.93 | 8.17 | 18.09 |
| 06 | 1.20 in ³ /rev | | 7.84 | 7.39 | 6.81 | 0.93 | 10.05 | 22.25 |
| 07 | 1.37 in ³ /rev | | 8.90 | 8.45 | 7.89 | 1.07 | 11.39 | 25.20 |
| 08 | 1.51 in ³ /rev | | 9.88 | 9.43 | 8.84 | 1.07 | 12.46 | 27.74 |
| 09 | 1.70 in ³ /rev | | 11.09 | 10.56 | 10.06 | 1.20 | 13.94 | 31.09 |
| 010 | 1.94 in ³ /rev | | 12.60 | 12.15 | 11.57 | 1.20 | 15.68 | 35.12 |
| 011 | 2.13 in ³ /rev | | 13.86 | 13.41 | 12.91 ¹⁾ | 1.34 | 17.15 | 36.19 ¹⁾ |
| 012 | 2.50 in ³ /rev | | 16.24 | 15.79 | 15.29 ¹⁾ | 1.47 | 19.97 | 42.22 ¹⁾ |
| 014 | 2.74 in ³ /rev | | 17.83 | 17.38 | 16.88 ¹⁾ | 1.60 | 21.84 | 46.24 ¹⁾ |
| 015 | 3.05 in ³ /rev | | 19.81 | 19.36 | 18.91 ²⁾ | 1.74 | 24.26 | 47.85 ²⁾ |

1) 11 - 12 - 14 = 4350 PSI max. int. 2) 15 = 4000 PSI max. int.
 - Not to use because internal leakage greater than 50% theoretical flow.
 - Port connection can be furnished with metric threads.

High Pressure Single Vane Pump

HT6C Series

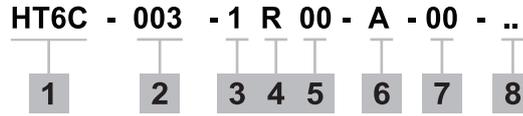
Specification

HT6C for Single pump

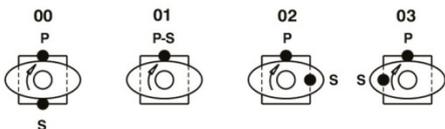
| Size | Displacement cm ³ /r 1(in ³ /r) | Max. Intermittent Pressure bar (psi) | Max. Continuous Pressure bar (psi) | Min. Speed rpm | Max. Speed rpm | Weight |
|------|--|---|---|----------------------|----------------------|-------------|
| 003 | 10.8 (0.66) | 275 (4000) | 240 (3500) | 600 | 2800 | 15.0 (33.0) |
| 005 | 17.2 (1.05) | | | | | |
| 006 | 21.3 (1.30) | | | | | |
| 008 | 26.4 (1.61) | | | | | |
| 010 | 34.1 (2.08) | | | | | |
| 012 | 37.1 (2.26) | | | | | |
| 014 | 46.0 (2.81) | | | | | |
| 017 | 58.3 (3.56) | | | | | |
| 020 | 63.8 (3.89) | | | | | |
| 022 | 70.3 (4.29) | | | | | |
| 025 | 79.3 (4.84) | 206 (3000) | 160 (2300) | | 2500 | |
| 028 | 88.8 (5.42) | | | | | |
| 031 | 100.0 (6.10) | | | | | |

High Pressure Single Vane Pump HT6C Series

Ordering Code : Single Pump



- | | |
|---|--|
| <p>1. Model : Industrial - HT6C SAE B 2 bolts mounting flange J744</p> <p>2. Displacement Volumetric displacement cm³/rec (in³/rev)</p> <ul style="list-style-type: none"> 003 - 10.8 (0.66) 005 - 17.2 (1.05) 006 - 21.3 (1.30) 008 - 26.4 (1.61) 010 - 34.1 (2.08) 012 - 37.1 (2.26) 014 - 46.0 (2.81) 017 - 58.3 (3.56) 020 - 63.8 (3.89) 022 - 70.3 (4.29) 025 - 79.3 (4.84) 028 - 88.8 (5.42) 031 - 100.0 (6.10) <p>3. Type of shaft</p> <ul style="list-style-type: none"> 1 - SAE B Keyed Shaft 2 - non SAE Keyed Shaft 3 - SAE B Splined Shaft 4 - SAE BB Splined Shaft <p>4. Direction of rotation (Viewed from shaft end)</p> <ul style="list-style-type: none"> R - Turn right L - Turn left <p>5. Porting combination</p> <p>00 - standard</p> | <p>6. Design letter</p> <p>7. Port Connection (4 bolts SAE flange J518C)</p> <ul style="list-style-type: none"> 00 - UNC Port Connection M0 - Metric Port Connection <p>8. Modifications</p> <ul style="list-style-type: none"> Omit - Standard 718 - Surface grinding the flange face for the manifold. |
|---|--|

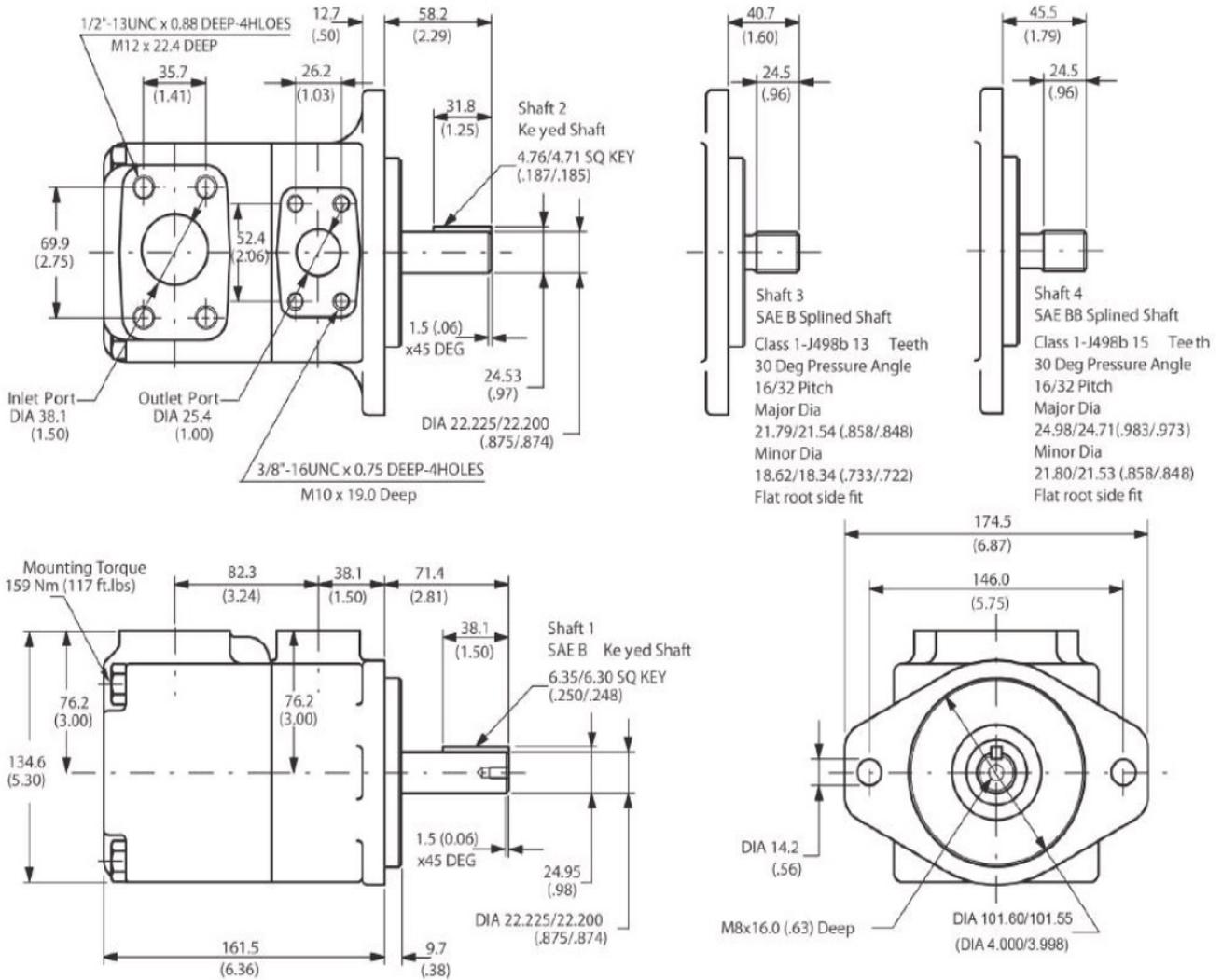


S - Suction port P - Pressure port

High Pressure Single Vane Pump HT6C Series

Installation Dimension mm (inch)

HT6C



High Pressure Single Vane Pump HT6C Series

Performance Characteristics

HT6C

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

| Series | Volumetric Displacement | Speed n [R.P.M] | Flow Q [GPM] | | | Input power P [HP] | | |
|------------------|---------------------------|-----------------|--------------|--------------|---------------------|--------------------|--------------|---------------------|
| | | | p = 0 PSI | p = 2000 PSI | p = 3500 PSI | p = 100 PSI | p = 2000 PSI | p = 3500 PSI |
| 03 | 0.66 in ³ /rev | 1200 | 3.42 | - | - | 1.43 | - | - |
| | | 1800 | 5.14 | 3.61 | - | 2.11 | 8.45 | - |
| 05 | 1.05 in ³ /rev | 1200 | 5.45 | 3.99 | - | 1.55 | 8.17 | - |
| | | 1800 | 8.18 | 6.65 | 5.56 | 2.29 | 12.00 | 19.59 |
| 06 | 1.30 in ³ /rev | 1200 | 6.75 | 5.22 | 4.13 | 1.62 | 9.69 | 16.13 |
| | | 1800 | 10.13 | 8.60 | 7.51 | 2.40 | 14.28 | 23.57 |
| 08 | 1.61 in ³ /rev | 1200 | 8.37 | 6.84 | 5.75 | 1.72 | 11.58 | 19.43 |
| | | 1800 | 12.55 | 11.02 | 9.93 | 2.54 | 17.11 | 28.53 |
| 10 | 2.08 in ³ /rev | 1200 | 10.81 | 9.28 | 8.19 | 1.86 | 14.43 | 24.42 |
| | | 1800 | 16.22 | 14.69 | 13.60 | 2.76 | 21.38 | 36.00 |
| 12 | 2.26 in ³ /rev | 1200 | 11.76 | 10.23 | 9.14 | 1.92 | 15.53 | 26.36 |
| | | 1800 | 17.64 | 16.11 | 15.02 | 2.84 | 23.05 | 38.92 |
| 14 | 2.81 in ³ /rev | 1200 | 14.58 | 13.05 | 11.96 | 2.08 | 18.83 | 32.12 |
| | | 1800 | 21.88 | 20.35 | 19.26 | 3.09 | 27.99 | 47.56 |
| 17 | 3.56 in ³ /rev | 1200 | 18.48 | 16.95 | 15.86 | 2.31 | 23.38 | 40.08 |
| | | 1800 | 27.73 | 26.20 | 25.11 | 3.43 | 34.81 | 59.51 |
| 20 | 3.89 in ³ /rev | 1200 | 20.23 | 18.70 | 17.61 | 2.41 | 25.41 | 43.64 |
| | | 1800 | 30.34 | 28.81 | 27.42 | 3.58 | 37.86 | 64.85 |
| 22 | 4.29 in ³ /rev | 1200 | 22.29 | 20.76 | 19.67 | 2.53 | 27.82 | 47.85 |
| | | 1800 | 33.43 | 31.90 | 30.81 | 3.76 | 41.47 | 71.16 |
| 25 ¹⁾ | 4.84 in ³ /rev | 1200 | 25.14 | 23.61 | 22.52 | 2.70 | 31.15 | 53.68 |
| | | 1800 | 37.71 | 36.18 | 35.09 | 4.01 | 46.46 | 79.90 |
| 28 ¹⁾ | 5.42 in ³ /rev | 1200 | 28.15 | 26.62 | 25.86 ²⁾ | 2.87 | 34.66 | 51.37 ²⁾ |
| | | 1800 | 42.23 | 40.70 | 39.94 ²⁾ | 4.27 | 51.74 | 76.73 ²⁾ |
| 31 ¹⁾ | 6.10 in ³ /rev | 1200 | 31.70 | 30.17 | 29.41 ²⁾ | 3.08 | 38.80 | 57.58 ²⁾ |
| | | 1800 | 47.56 | 46.03 | 45.27 ²⁾ | 4.58 | 57.95 | 86.06 ²⁾ |

1) 25 - 28 - 31 = 2500 R.P.M. max.

2) 28 - 31 = 3000 PSI max. int.

- Not to use because internal leakage greater than 50% theoretical flow.

- Port connection can be furnished with metric threads.

High Pressure Single Vane Pump

HT6CM/HT6CP Series

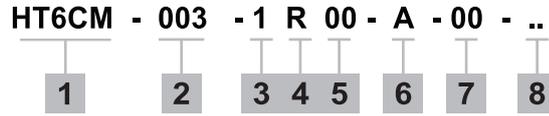
Specification

HT6CM, HT6CP for Single pump

| Size | Displacement cm ³ /r 1(in ³ /r) | Max. Intermittent Pressure bar (psi) | Max. Continuous Pressure bar (psi) | Min. Speed rpm | Max. Speed rpm | Weight |
|------|--|---|---|----------------------|----------------------|-------------|
| 003 | 10.8 (0.66) | 275 (4000) | 240 (3500) | 400 | 2800 | 15.0 (33.0) |
| 005 | 17.2 (1.05) | | | | | |
| 006 | 21.3 (1.30) | | | | | |
| 008 | 26.4 (1.61) | | | | | |
| 010 | 34.1 (2.08) | | | | | |
| 012 | 37.1 (2.26) | | | | | |
| 014 | 46.0 (2.81) | | | | | |
| 017 | 58.3 (3.56) | | | | | |
| 020 | 63.8 (3.89) | | | | | |
| 022 | 70.3 (4.29) | | | | | |
| 025 | 79.3 (4.84) | 206 (3000) | 160 (2300) | | 2500 | |
| 028 | 88.8 (5.42) | | | | | |
| 031 | 100.0 (6.10) | | | | | |

High Pressure Single Vane Pump HT6CM/HT6CP Series

Ordering Code : Single Pump



1. Model :

- Mobile 1 Shaft seals (M) - HT6CM SAE B 2 bolts mounting flange J744
- Mobile 2 Shaft seals (P) - HT6CP SAE C 2 bolts mounting flange J744

2. Displacement

| Volumetric displacement cm ³ /rec (in ³ /rev) | |
|---|--------------------|
| 6CM | 6CP |
| 003 - 10.8 (0.66) | 014 - 46.0 (2.81) |
| 005 - 17.2 (1.05) | 017 - 58.3 (3.56) |
| 006 - 21.3 (1.30) | 020 - 63.8 (3.89) |
| 008 - 26.4 (1.61) | 022 - 70.3 (4.29) |
| 010 - 34.1 (2.08) | 025 - 79.3 (4.84) |
| 012 - 37.1 (2.26) | 028 - 88.8 (5.42) |
| 014 - 46.0 (2.81) | 031 - 100.0 (6.10) |
| 017 - 58.3 (3.56) | |
| 020 - 63.8 (3.89) | |
| 022 - 70.3 (4.29) | |
| 025 - 79.3 (4.84) | |
| 028 - 88.8 (5.42) | |
| 031 - 100.0 (6.10) | |

6. Design letter

- 7. Port Connection (4 bolts SAE flange J518C)
M0 - Metric Port Connection

8. Modifications

- Omit - Standard
- 718 - Surface grinding the flange face for the manifold.

3. Type of shaft

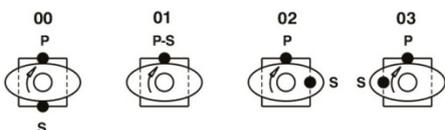
- HT6CM
 - 1 - SAE B Keyed Shaft
 - 2 - non SAE Keyed Shaft
 - 3 - SAE B Splined Shaft
 - 4 - SAE BB Splined Shaft
- HT6CP
 - 2 - non SAE Keyed Shaft
 - 3 - SAE C Splined Shaft

4. Direction of rotation (Viewed from shaft end)

- R - Turn right
- L - Turn left

5. Porting combination

00 - standard

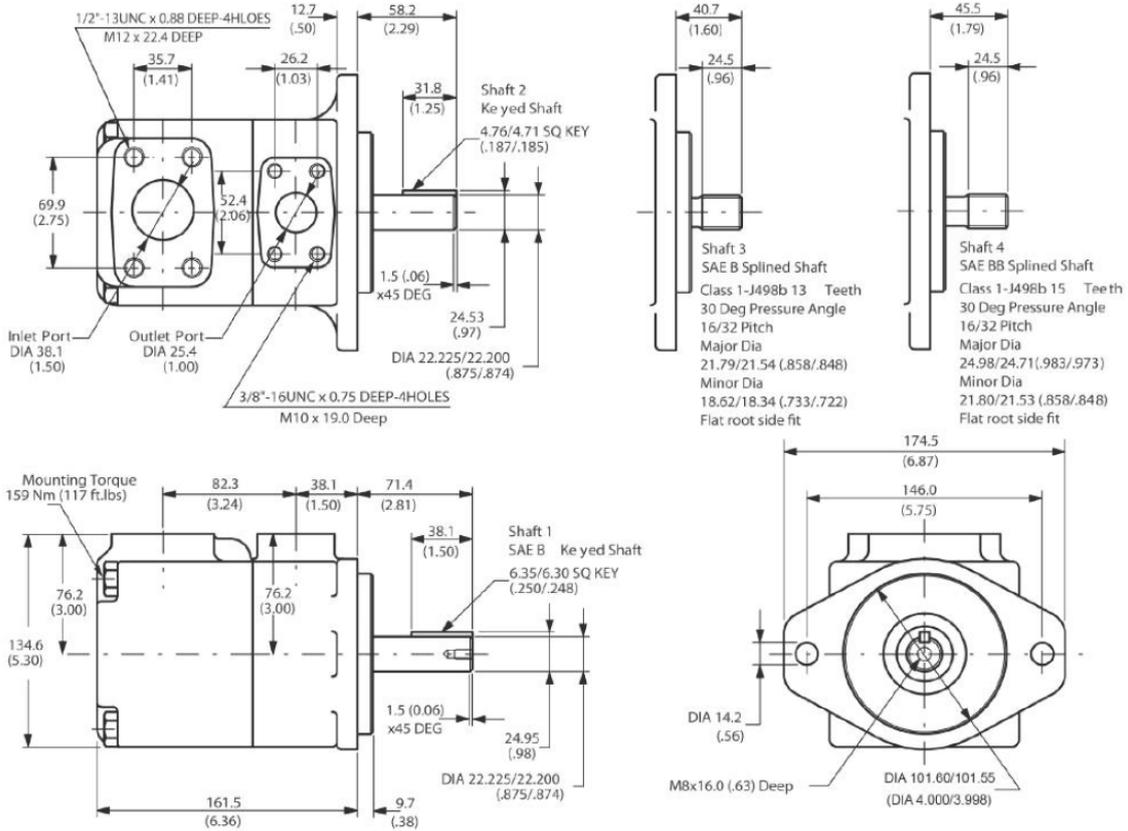


S - Suction port P - Pressure port

High Pressure Single Vane Pump HT6CM/HT6CP Series

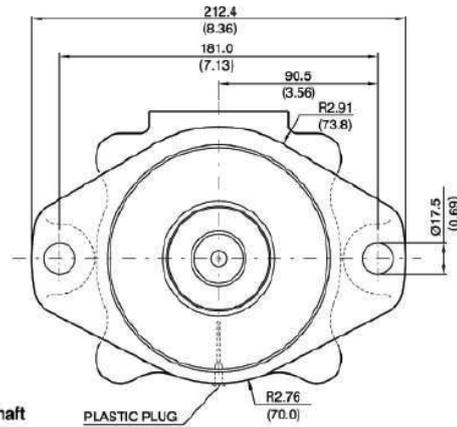
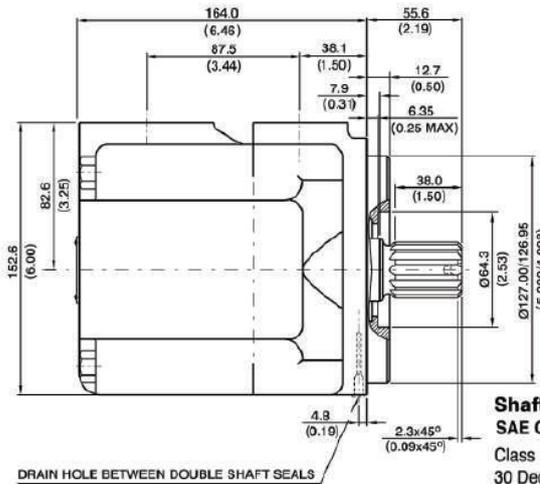
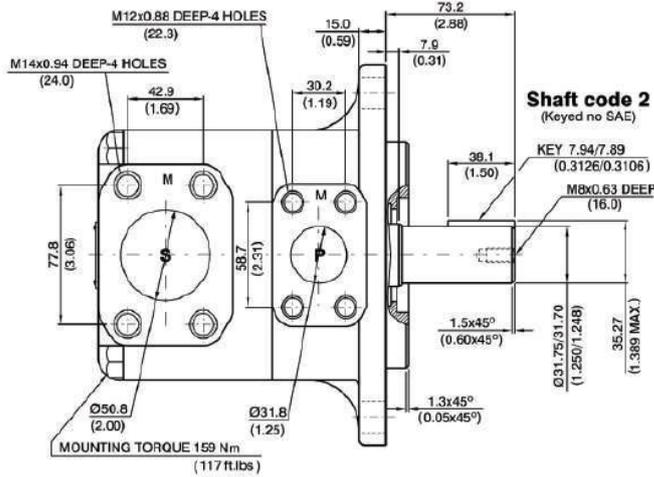
Installation Dimension mm (inch)

HT6CM



High Pressure Single Vane Pump HT6CM/HT6CP Series

HT6CP



High Pressure Single Vane Pump HT6CM/HT6CP Series

Performance Characteristics

HT6CM, HT6CP

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

| Series | Volumetric Displacement | Speed n [R.P.M] | Flow Q [GPM] | | | Input power P [HP] | | |
|------------------|---------------------------|-----------------|--------------|--------------|---------------------|--------------------|--------------|---------------------|
| | | | p = 0 PSI | p = 2000 PSI | p = 3500 PSI | p = 100 PSI | p = 2000 PSI | p = 3500 PSI |
| 03 | 0.66 in ³ /rev | 1200 | 3.42 | - | - | 1.43 | - | - |
| | | 1800 | 5.14 | 3.61 | - | 2.11 | 8.45 | - |
| 05 | 1.05 in ³ /rev | 1200 | 5.45 | 3.99 | - | 1.55 | 8.17 | - |
| | | 1800 | 8.18 | 6.65 | 5.56 | 2.29 | 12.00 | 19.59 |
| 06 | 1.30 in ³ /rev | 1200 | 6.75 | 5.22 | 4.13 | 1.62 | 9.69 | 16.13 |
| | | 1800 | 10.13 | 8.60 | 7.51 | 2.40 | 14.28 | 23.57 |
| 08 | 1.61 in ³ /rev | 1200 | 8.37 | 6.84 | 5.75 | 1.72 | 11.58 | 19.43 |
| | | 1800 | 12.55 | 11.02 | 9.93 | 2.54 | 17.11 | 28.53 |
| 10 | 2.08 in ³ /rev | 1200 | 10.81 | 9.28 | 8.19 | 1.86 | 14.43 | 24.42 |
| | | 1800 | 16.22 | 14.69 | 13.60 | 2.76 | 21.38 | 36.00 |
| 12 | 2.26 in ³ /rev | 1200 | 11.76 | 10.23 | 9.14 | 1.92 | 15.53 | 26.36 |
| | | 1800 | 17.64 | 16.11 | 15.02 | 2.84 | 23.05 | 38.92 |
| 14 | 2.81 in ³ /rev | 1200 | 14.58 | 13.05 | 11.96 | 2.08 | 18.83 | 32.12 |
| | | 1800 | 21.88 | 20.35 | 19.26 | 3.09 | 27.99 | 47.56 |
| 17 | 3.56 in ³ /rev | 1200 | 18.48 | 16.95 | 15.86 | 2.31 | 23.38 | 40.08 |
| | | 1800 | 27.73 | 26.20 | 25.11 | 3.43 | 34.81 | 59.51 |
| 20 | 3.89 in ³ /rev | 1200 | 20.23 | 18.70 | 17.61 | 2.41 | 25.41 | 43.64 |
| | | 1800 | 30.34 | 28.81 | 27.42 | 3.58 | 37.86 | 64.85 |
| 22 | 4.29 in ³ /rev | 1200 | 22.29 | 20.76 | 19.67 | 2.53 | 27.82 | 47.85 |
| | | 1800 | 33.43 | 31.90 | 30.81 | 3.76 | 41.47 | 71.16 |
| 25 ¹⁾ | 4.84 in ³ /rev | 1200 | 25.14 | 23.61 | 22.52 | 2.70 | 31.15 | 53.68 |
| | | 1800 | 37.71 | 36.18 | 35.09 | 4.01 | 46.46 | 79.90 |
| 28 ¹⁾ | 5.42 in ³ /rev | 1200 | 28.15 | 26.62 | 25.86 ²⁾ | 2.87 | 34.66 | 51.37 ²⁾ |
| | | 1800 | 42.23 | 40.70 | 39.94 ²⁾ | 4.27 | 51.74 | 76.73 ²⁾ |
| 31 ¹⁾ | 6.10 in ³ /rev | 1200 | 31.70 | 30.17 | 29.41 ²⁾ | 3.08 | 38.80 | 57.58 ²⁾ |
| | | 1800 | 47.56 | 46.03 | 45.27 ²⁾ | 4.58 | 57.95 | 86.06 ²⁾ |

1) 25 - 28 - 31 = 2500 R.P.M. max. 2) 28 - 31 = 3000 PSI max. int.
 - Not to use because internal leakage greater than 50% theoretical flow.
 - Port connection can be furnished with metric threads.

High Pressure Single Vane Pump

HT7D/HT7DS Series

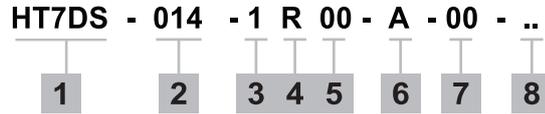
Specification

HT7D for Single pump

| Size | Displacement cm ³ /r 1(in ³ /r) | Max. Intermittent Pressure bar (psi) | Max. Continuous Pressure bar (psi) | Min. Speed rpm | Max. Speed rpm | Weight |
|------|--|---|---|----------------------|----------------------|-------------|
| 014 | 47.6 (2.90) | 300 (4350) | 250 (3600) | 600 | 3000 | 27.0 (59.4) |
| 017 | 58.2 (3.55) | | | | | |
| 020 | 66.0 (4.03) | | | | | |
| 022 | 70.0 (4.27) | | | | | |
| 024 | 79.5 (4.85) | | | | | |
| 028 | 89.7 (5.47) | | | | | |
| 031 | 98.3 (6.00) | 280 (4060) | | | | |
| 035 | 111.0 (6.77) | | | | | |
| 038 | 120.3 (7.34) | | | | | |
| 042 | 136.0 (8.30) | 260 (3770) | 235 (3400) | | 2500 | |
| 045 | 145.7 (8.89) | 240 (3500) | 206 (3000) | | 2200 | |
| 050 | 158.0 (9.64) | 206 (3000) | 160 (2300) | | | |

High Pressure Single Vane Pump HT7D/HT7DS Series

Ordering Code : Single Pump



1. Model :

- Industrial - HT7D
ISO 2 bolts 3019-2
mounting flange 125 A2 HW
- HT7DS
SAE C 2 bolts mounting flange J744

2. Displacement

Volumetric displacement cm³/rec (in³/rev)

- 014 - 47.6 (2.90)
- 017 - 58.2 (3.55)
- 020 - 66.0 (4.03)
- 022 - 70.0 (4.27)
- 024 - 79.5 (4.85)
- 028 - 89.7 (5.47)
- 031 - 98.3 (6.00)
- 035 - 111.0 (6.77)
- 038 - 120.3 (7.34)
- 042 - 136.0 (8.30)
- 045 - 145.7 (8.89)
- 050 - 158.0 (9.64)

3. Type of shaft

HT7D, HT7DS
5 - ISO 3019-G38M Keyed Shaft

HT7DS

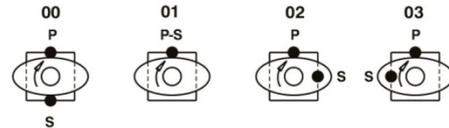
- 1 - SAE C Keyed Shaft
- 2 - non SAE Keyed Shaft
- 3 - SAE C Splined Shaft
- 4 - non SAE Splined Shaft

4. Direction of rotation (Viewed from shaft end)

- R - Turn right
- L - Turn left

5. Porting combination

00 - standard



S - Suction port P - Pressure port

6. Design letter

7. Port Connection (4 bolts SAE flange J518C)

- 00 - UNC Port Connection (Except HT7D)
- M0 - Metric Port Connection

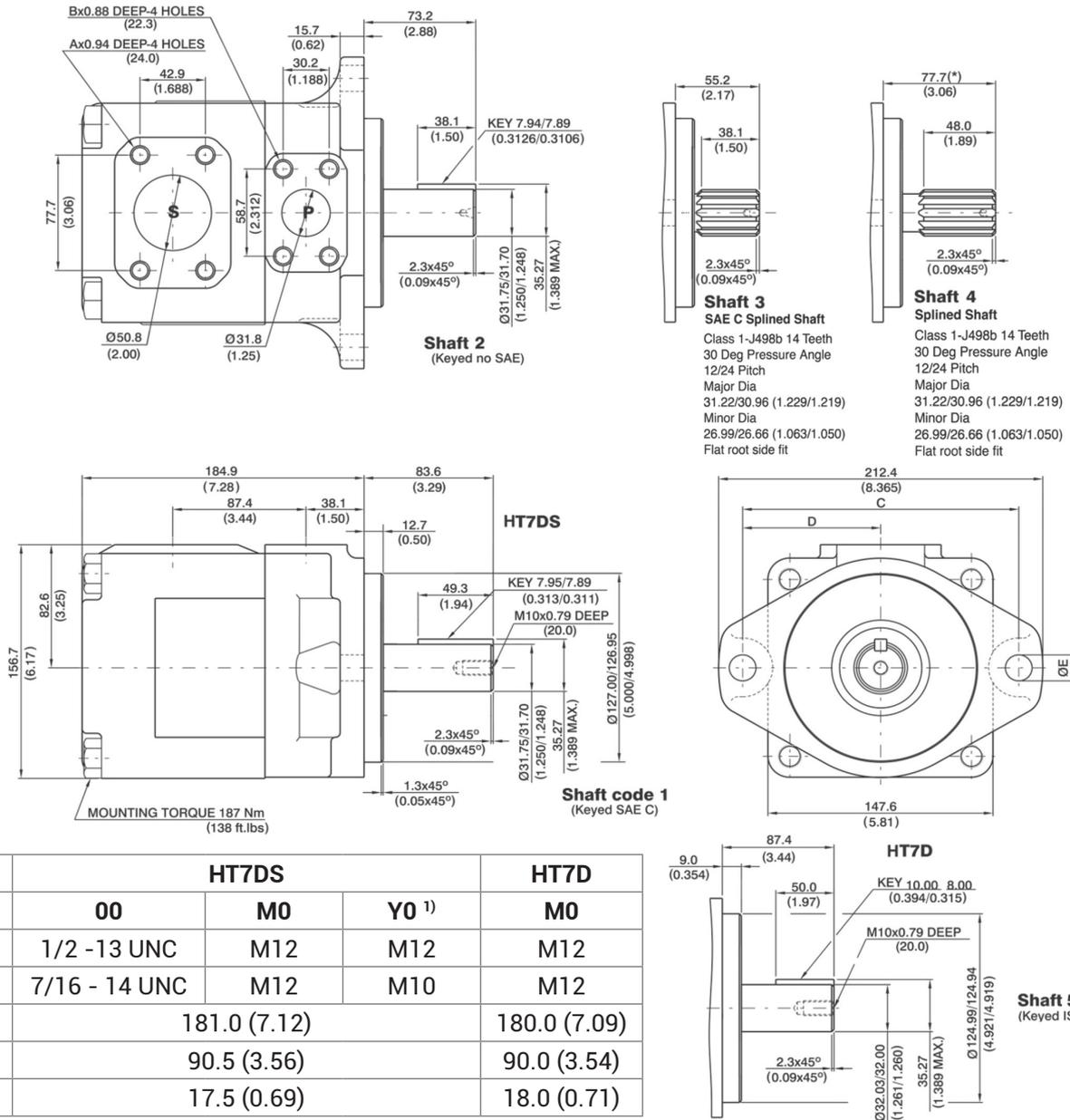
8. Modifications

- Omit - Standard
- 718 - Surface grinding the flange face for the manifold.

High Pressure Single Vane Pump HT7D/HT7DS Series

Installation Dimension mm (inch)

HT7D, HT7DS



| Model | HT7DS | | | HT7D |
|-------|---------------|-----|------------------|--------------|
| Code | 00 | M0 | Y0 ¹⁾ | M0 |
| A | 1/2 - 13 UNC | M12 | M12 | M12 |
| B | 7/16 - 14 UNC | M12 | M10 | M12 |
| C | 181.0 (7.12) | | | 180.0 (7.09) |
| D | 90.5 (3.56) | | | 90.0 (3.54) |
| E | 17.5 (0.69) | | | 18.0 (0.71) |

1) 250 bar (3630 psi) max. int

High Pressure Single Vane Pump HT7D/HT7DS Series

Performance Characteristics

HT7D, HT7DS

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

| Series | Volumetric Displacement | Speed n [R.P.M] | Flow Q [GPM] | | | Input power P [HP] | | |
|--------|---------------------------|-----------------|--------------|--------------|---------------------|--------------------|--------------|----------------------|
| | | | p = 0 PSI | p = 2000 PSI | p = 3500 PSI | p = 100 PSI | p = 2000 PSI | p = 3500 PSI |
| 14 | 2.68 in ³ /rev | 1800 | 20.92 | 19.18 | 17.19 | 3.46 | 27.77 | 58.49 |
| 17 | 3.36 in ³ /rev | | 26.16 | 24.41 | 22.42 | 3.77 | 33.88 | 71.92 |
| 20 | 4.03 in ³ /rev | | 31.39 | 29.64 | 27.65 | 4.07 | 39.98 | 85.35 |
| 22 | 4.29 in ³ /rev | | 33.43 | 31.69 | 29.70 | 4.19 | 42.37 | 90.60 |
| 24 | 4.95 in ³ /rev | | 38.57 | 36.82 | 34.83 | 4.49 | 48.36 | 103.78 |
| 28 | 5.49 in ³ /rev | | 42.80 | 41.06 | 39.06 | 4.74 | 53.30 | 114.65 |
| 31 | 6.05 in ³ /rev | | 47.18 | 45.43 | 43.44 | 4.99 | 58.41 | 125.88 |
| 35 | 6.92 in ³ /rev | | 53.93 | 52.18 | 50.44 ¹⁾ | 5.39 | 66.29 | 130.39 ¹⁾ |
| 38 | 7.36 in ³ /rev | | 57.35 | 55.61 | 53.87 ¹⁾ | 5.59 | 70.28 | 138.38 ¹⁾ |
| 42 | 8.39 in ³ /rev | | 65.39 | 63.65 | 62.15 ²⁾ | 6.05 | 79.66 | 149.39 ²⁾ |
| 45 | 8.89 in ³ /rev | | 69.29 | 67.11 | 65.47 ³⁾ | 6.74 | 83.75 | 144.41 ³⁾ |
| 50 | 9.64 in ³ /rev | | 75.14 | 72.96 | 71.78 ⁴⁾ | 7.08 | 90.58 | 134.54 ⁴⁾ |

1) 35 - 38 = 4060 PSI max. int.

2) 42 = 3770 PSI max. int.

3) 45 = 3500 PSI max. int.

4) 50 = 3000 PSI max. int.

*Special 2¹/₂ (2.5 dia) suction also available

High Pressure Single Vane Pump

HT7DSW Series

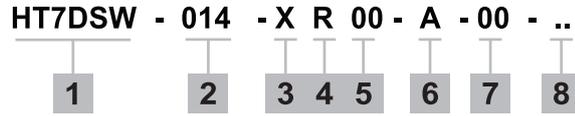
Specification

HT7DSW for Single pump

| Size | Displacement cm ³ /r 1(in ³ /r) | Max. Intermittent Pressure bar (psi) | Max. Continuous Pressure bar (psi) | Min. Speed rpm | Max. Speed rpm | Weight |
|------|--|---|---|----------------------|----------------------|-------------|
| 014 | 47.6 (2.90) | 300 (4350) | 250 (3600) | 600 | 3000 | 27.0 (59.4) |
| 017 | 58.2 (3.55) | | | | | |
| 020 | 66.0 (4.03) | | | | | |
| 022 | 70.0 (4.27) | | | | | |
| 024 | 79.5 (4.85) | | | | | |
| 028 | 89.7 (5.47) | | | | | |
| 031 | 98.3 (6.00) | | | | | |
| 035 | 111.0 (6.77) | 280 (4060) | | | 2800 | |
| 038 | 120.3 (7.34) | | | | | |
| 042 | 136.0 (8.30) | 260 (3770) | 235 (3400) | | 2500 | |
| 045 | 145.7 (8.89) | 240 (3500) | 206 (3000) | | 2200 | |
| 050 | 158.0 (9.64) | 206 (3000) | 160 (2300) | | | |

High Pressure Single Vane Pump HT7DSW Series

Ordering Code : Single Pump



1. Model :
Industrial - HT7DSW SAE C 4 bolts
mounting flange ISO 127-4

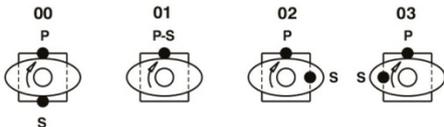
2. Displacement
Volumetric displacement cm³/rec (in³/rev)

- 014 - 47.6 (2.90)
- 017 - 58.2 (3.55)
- 020 - 66.0 (4.03)
- 022 - 70.0 (4.27)
- 024 - 79.5 (4.85)
- 028 - 89.7 (5.47)
- 031 - 98.3 (6.00)
- 035 - 111.0 (6.77)
- 038 - 120.3 (7.34)
- 042 - 136.0 (8.30)
- 045 - 145.7 (8.89)
- 050 - 158.0 (9.64)

3. Type of shaft
X - SAE C Keyed Shaft
W - SAE C Splined Shaft

4. Direction of rotation (Viewed from shaft end)
R - Turn right
L - Turn left

5. Porting combination
00 - standard



S - Suction port P - Pressure port

6. Design letter

7. Port Connection (4 bolts SAE flange J518C)
00 - UNC Port Connection
M0 - Metric Port Connection

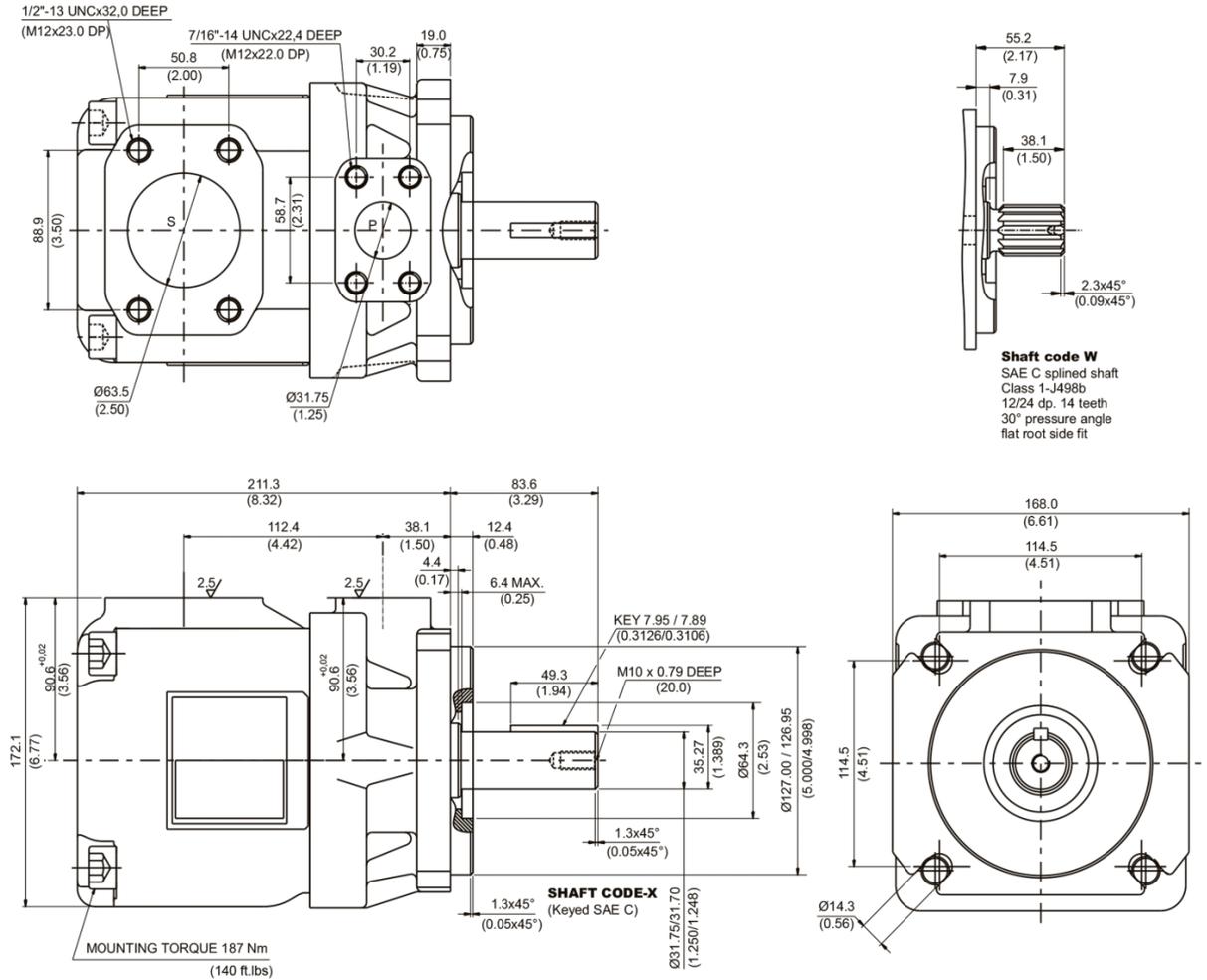
| | | |
|-----------------------|-----|--------|
| P = 1" 1/4 S = 2" 1/2 | | |
| | UNC | METRIC |
| HT7DSW | 0 | M0 |

8. Modifications
Omit - Standard
718 - Surface grinding the flange face for the manifold.

High Pressure Single Vane Pump HT7DSW Series

Installation Dimension mm (inch)

HT7DSW



High Pressure Single Vane Pump HT7DSW Series

Performance Characteristics

HT7DSW

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

| Series | Volumetric Displacement | Speed n [R.P.M] | Flow Q [GPM] | | | Input power P [HP] | | |
|--------|---------------------------|-----------------|--------------|--------------|---------------------|--------------------|--------------|----------------------|
| | | | p = 0 PSI | p = 2000 PSI | p = 3500 PSI | p = 100 PSI | p = 2000 PSI | p = 3500 PSI |
| 14 | 2.68 in ³ /rev | 1800 | 20.92 | 19.18 | 17.19 | 3.46 | 27.77 | 58.49 |
| 17 | 3.36 in ³ /rev | | 26.16 | 24.41 | 22.42 | 3.77 | 33.88 | 71.92 |
| 20 | 4.03 in ³ /rev | | 31.39 | 29.64 | 27.65 | 4.07 | 39.98 | 85.35 |
| 22 | 4.29 in ³ /rev | | 33.43 | 31.69 | 29.70 | 4.19 | 42.37 | 90.60 |
| 24 | 4.95 in ³ /rev | | 38.57 | 36.82 | 34.83 | 4.49 | 48.36 | 103.78 |
| 28 | 5.49 in ³ /rev | | 42.80 | 41.06 | 39.06 | 4.74 | 53.30 | 114.65 |
| 31 | 6.05 in ³ /rev | | 47.18 | 45.43 | 43.44 | 4.99 | 58.41 | 125.88 |
| 35 | 6.92 in ³ /rev | | 53.93 | 52.18 | 50.44 ¹⁾ | 5.39 | 66.29 | 130.39 ¹⁾ |
| 38 | 7.36 in ³ /rev | | 57.35 | 55.61 | 53.87 ¹⁾ | 5.59 | 70.28 | 138.38 ¹⁾ |
| 42 | 8.39 in ³ /rev | | 65.39 | 63.65 | 62.15 ²⁾ | 6.05 | 79.66 | 149.39 ²⁾ |
| 45 | 8.89 in ³ /rev | | 69.29 | 67.11 | 65.47 ³⁾ | 6.74 | 83.75 | 144.41 ³⁾ |
| 50 | 9.64 in ³ /rev | | 75.14 | 72.96 | 71.78 ⁴⁾ | 7.08 | 90.58 | 134.54 ⁴⁾ |

1) 35 - 38 = 4060 PSI max. int

2) 42 = 3770 PSI max. int.

3) 45 = 3500 PSI max. int

4) 50 = 3000 PSI max. int

*Special 2½" (2.5 dia) suction also available

High Pressure Single Vane Pump

HT7DSWP Series

Specification

HT7DSWP for Single pump

| Size | Displacement cm ³ /r 1(in ³ /r) | Max. Intermittent Pressure bar (psi) | Max. Continuous Pressure bar (psi) | Min. Speed rpm | Max. Speed rpm | Weight |
|------|--|---|---|----------------------|----------------------|-------------|
| 014 | 47.6 (2.90) | 300 (4350) | 250 (3600) | 600 | 3000 | 27.0 (59.4) |
| 017 | 58.2 (3.55) | | | | | |
| 020 | 66.0 (4.03) | | | | | |
| 022 | 70.0 (4.27) | | | | | |
| 024 | 79.5 (4.85) | | | | | |
| 028 | 89.7 (5.47) | | | | | |
| 031 | 98.3 (6.00) | | | | | |
| 035 | 111.0 (6.77) | 280 (4060) | | | | |
| 038 | 120.3 (7.34) | | | | | |
| 042 | 136.0 (8.30) | 260 (3770) | 235 (3400) | | 2500 | |
| 045 | 145.7 (8.89) | 240 (3500) | 206 (3000) | | 2200 | |
| 050 | 158.0 (9.64) | 206 (3000) | 160 (2300) | | | |

High Pressure Single Vane Pump HT7DSWP Series

Ordering Code : Single Pump



1. Model :

Mobile 2 Shaft seals (P) - HT7DSWP SAE C 4 bolts mounting flange ISO 127-4

6. Design letter

7. Port Connection (4 bolts SAE flange J518C)
00 - UNC Port Connection

2. Displacement

Volumetric displacement cm³/rec (in³/rev)

- 014 - 47.6 (2.90)
- 017 - 58.2 (3.55)
- 020 - 66.0 (4.03)
- 022 - 70.0 (4.27)
- 024 - 79.5 (4.85)
- 028 - 89.7 (5.47))
- 031 - 98.3 (6.00)
- 035 - 111.0 (6.77)
- 038 - 120.3 (7.34)
- 042 - 136.0 (8.30)
- 045 - 145.7 (8.89)
- 050 - 158.0 (9.64)

| | | |
|-----------------------|-----|--|
| P = 1" 1/4 S = 2" 1/2 | | |
| | UNC | |
| HT7DSWP | 00 | |

8. Modifications

- Omit - Standard
- 718 - Surface grinding the flange face for the manifold.

3. Type of shaft

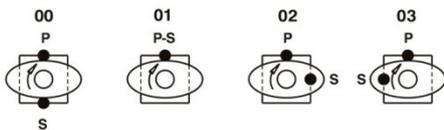
W - SAE C Splined Shaft

4. Direction of rotation (Viewed from shaft end)

- R - Turn right
- L - Turn left

5. Porting combination

00 - standard



S - Suction port P - Pressure port

High Pressure Single Vane Pump HT7DSWP Series

Performance Characteristics

HT7DSWP

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

| Series | Volumetric Displacement | Speed n [R.P.M] | Flow Q [GPM] | | | Input power P [HP] | | |
|--------|---------------------------|-----------------|--------------|--------------|---------------------|--------------------|--------------|----------------------|
| | | | p = 0 PSI | p = 2000 PSI | p = 3500 PSI | p = 100 PSI | p = 2000 PSI | p = 3500 PSI |
| 14 | 2.68 in ³ /rev | 1800 | 20.92 | 19.18 | 17.19 | 3.46 | 27.77 | 58.49 |
| 17 | 3.36 in ³ /rev | | 26.16 | 24.41 | 22.42 | 3.77 | 33.88 | 71.92 |
| 20 | 4.03 in ³ /rev | | 31.39 | 29.64 | 27.65 | 4.07 | 39.98 | 85.35 |
| 22 | 4.29 in ³ /rev | | 33.43 | 31.69 | 29.70 | 4.19 | 42.37 | 90.60 |
| 24 | 4.95 in ³ /rev | | 38.57 | 36.82 | 34.83 | 4.49 | 48.36 | 103.78 |
| 28 | 5.49 in ³ /rev | | 42.80 | 41.06 | 39.06 | 4.74 | 53.30 | 114.65 |
| 31 | 6.05 in ³ /rev | | 47.18 | 45.43 | 43.44 | 4.99 | 58.41 | 125.88 |
| 35 | 6.92 in ³ /rev | | 53.93 | 52.18 | 50.44 ¹⁾ | 5.39 | 66.29 | 130.39 ¹⁾ |
| 38 | 7.36 in ³ /rev | | 57.35 | 55.61 | 53.87 ¹⁾ | 5.59 | 70.28 | 138.38 ¹⁾ |
| 42 | 8.39 in ³ /rev | | 65.39 | 63.65 | 62.15 ²⁾ | 6.05 | 79.66 | 149.39 ²⁾ |
| 45 | 8.89 in ³ /rev | | 69.29 | 67.11 | 65.47 ³⁾ | 6.74 | 83.75 | 144.41 ³⁾ |
| 50 | 9.64 in ³ /rev | | 75.14 | 72.96 | 71.78 ⁴⁾ | 7.08 | 90.58 | 134.54 ⁴⁾ |

1) 35 - 38 = 4060 PSI max. int

2) 42 = 3770 PSI max. int.

3) 45 = 3500 PSI max. int

4) 50 = 3000 PSI max. int

*Special 2½" (2.5 dia) suction also available

High Pressure Single Vane Pump

HT6DM/HT6DP Series

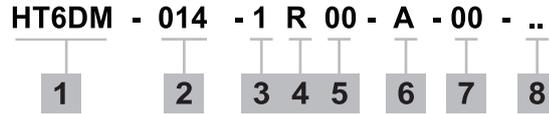
Specification

HT6DM, HT6DP for Single pump

| Size | Displacement cm ³ /r 1(in ³ /r) | Max. Intermittent Pressure bar (psi) | Max. Continuous Pressure bar (psi) | Min. Speed rpm | Max. Speed rpm | Weight |
|------|--|---|---|----------------------|----------------------|-------------|
| 014 | 47.6 (2.90) | 240 (3500) | 206 (3000) | 400 | 2500 | 26.4 (58.0) |
| 017 | 58.2 (3.55) | | | | | |
| 020 | 66.0 (4.03) | | | | | |
| 024 | 79.5 (4.85) | | | | | |
| 028 | 89.7 (5.47) | | | | | |
| 031 | 98.3 (6.00) | | | | | |
| 035 | 111.0 (6.77) | | | | | |
| 038 | 120.3 (7.34) | | | | | |
| 042 | 136.0 (8.30) | | | | | |
| 045 | 145.7 (8.89) | 206 (3000) | 160 (2300) | | 2200 | |
| 050 | 158.0 (9.64) | | | | | |
| 061 | 193.3 (11.8) | | | | | |

High Pressure Single Vane Pump HT6DM/HT6DP Series

Ordering Code : Single Pump



1. Model :

- Mobile 1 Shaft seals (M) - HT6DM
- Mobile 2 Shaft seals (P) - HT6DP
- SAE C 2 bolts mounting flange J744

2. Displacement

- Volumetric displacement cm³/rec (in³/rev)
- 014 - 47.6 (2.90)
 - 017 - 58.2 (3.55)
 - 020 - 66.0 (4.03)
 - 024 - 79.5 (4.85)
 - 028 - 89.7 (5.47)
 - 031 - 98.3 (6.00)
 - 035 - 111.0 (6.77)
 - 038 - 120.3 (7.34)
 - 042 - 136.0 (8.30)
 - 045 - 145.7 (8.89)
 - 050 - 158.0 (9.64)
 - 061 - 193.3 (11.80)

3. Type of shaft

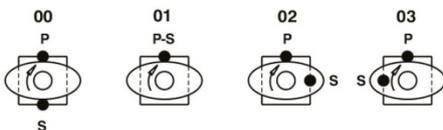
- HT6DM
- 1 - SAE C Keyed Shaft
 - 2 - non SAE Keyed Shaft
 - 3 - SAE C Splined Shaft
 - 4 - non SAE Splined Shaft
- HT6DP
- 3 - non SAE Splined Shaft

4. Direction of rotation (Viewed from shaft end)

- R - Turn right
- L - Turn left

5. Porting combination

- 00 - standard



S - Suction port P - Pressure port

6. Design letter

7. Port Connection (4 bolts SAE flange J518C)

- 00 - UNC Port Connection (Except HT7D)
- M0 - Metric Port Connection

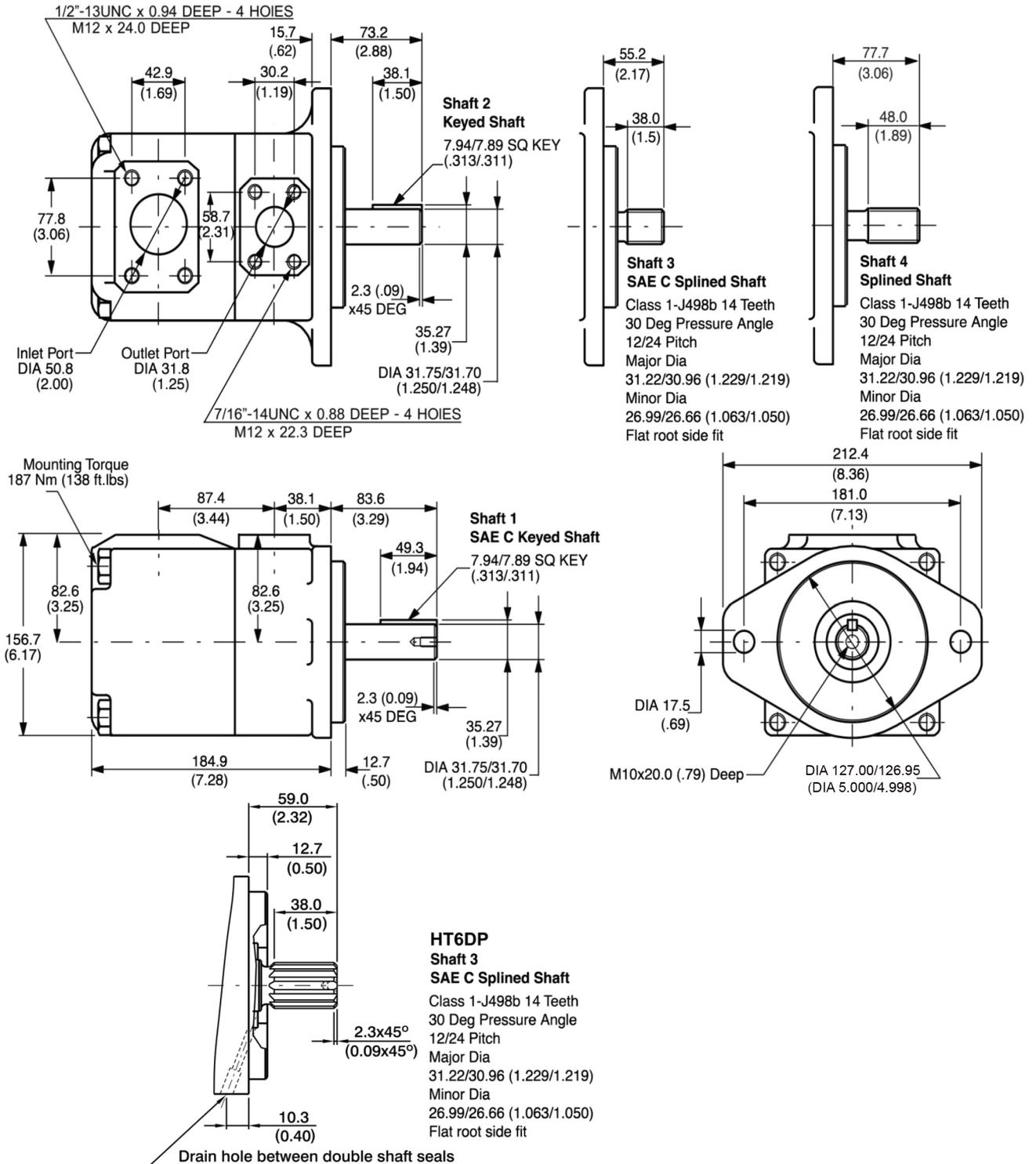
8. Modifications

- Omit - Standard
- 718 - Surface grinding the flange face for the manifold.

High Pressure Single Vane Pump HT6DM/HT6DP Series

Installation Dimension mm (inch)

HT6DM, HT6DP



High Pressure Single Vane Pump HT6DM/HT6DP Series

Performance Characteristics

HT6DM, HT6DP

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

| Series | Volumetric Displacement | Speed n [R.P.M] | Flow Q [GPM] | | | Input power P [HP] | | |
|------------------|---------------------------|-----------------|--------------|--------------|---------------------|--------------------|--------------|----------------------|
| | | | p = 0 PSI | p = 2000 PSI | p = 3500 PSI | p = 100 PSI | p = 2000 PSI | p = 3500 PSI |
| 14 | 2.90 in ³ /rev | 1200 | 15.09 | 12.91 | 11.27 | 2.44 | 19.60 | 33.20 |
| | | 1800 | 22.64 | 20.46 | 18.82 | 4.02 | 29.31 | 49.34 |
| 17 | 3.55 in ³ /rev | 1200 | 18.45 | 16.27 | 14.63 | 2.64 | 23.52 | 40.06 |
| | | 1800 | 27.68 | 25.50 | 23.86 | 4.31 | 35.20 | 59.64 |
| 20 | 4.00 in ³ /rev | 1200 | 20.92 | 18.74 | 17.10 | 2.78 | 26.41 | 45.11 |
| | | 1800 | 31.39 | 29.21 | 27.57 | 4.53 | 39.52 | 67.21 |
| 24 | 4.80 in ³ /rev | 1200 | 25.20 | 23.02 | 21.38 | 3.03 | 31.40 | 53.85 |
| | | 1800 | 37.81 | 35.63 | 33.99 | 4.91 | 47.02 | 80.32 |
| 28 | 5.50 in ³ /rev | 1200 | 28.44 | 26.26 | 24.62 | 3.22 | 35.17 | 60.45 |
| | | 1800 | 42.66 | 40.48 | 38.84 | 5.19 | 52.68 | 90.23 |
| 31 | 6.00 in ³ /rev | 1200 | 31.17 | 28.99 | 27.35 | 3.38 | 38.36 | 66.02 |
| | | 1800 | 46.75 | 44.57 | 42.93 | 5.43 | 57.45 | 98.58 |
| 35 | 6.80 in ³ /rev | 1200 | 35.19 | 33.01 | 31.37 | 3.61 | 43.05 | 74.24 |
| | | 1800 | 52.79 | 50.61 | 48.97 | 5.78 | 64.50 | 110.91 |
| 38 | 7.30 in ³ /rev | 1200 | 38.14 | 35.96 | 34.32 | 3.79 | 46.49 | 80.26 |
| | | 1800 | 57.21 | 55.03 | 53.39 | 6.04 | 69.66 | 119.94 |
| 42 ¹⁾ | 8.30 in ³ /rev | 1200 | 43.12 | 40.94 | 39.30 | 4.08 | 52.30 | 90.43 |
| | | 1800 | 64.68 | 62.50 | 60.86 | 6.47 | 78.37 | 135.19 |
| 45 ¹⁾ | 8.90 in ³ /rev | 1200 | 46.19 | 44.01 | 42.37 | 4.26 | 55.89 | 96.71 |
| | | 1800 | 69.29 | 67.11 | 65.47 | 6.74 | 83.75 | 144.61 |
| 50 ¹⁾ | 9.64 in ³ /rev | 1200 | 50.09 | 47.91 | 46.73 ²⁾ | 4.48 | 60.44 | 89.93 ²⁾ |
| | | 1800 | 75.14 | 72.96 | 71.78 ²⁾ | 7.08 | 90.58 | 134.54 ²⁾ |
| 61 ¹⁾ | 11.8 in ³ /rev | 1200 | 60.39 | 56.12 | 53.68 ²⁾ | 5.50 | 72.76 | 121.79 ²⁾ |
| | | 1800 | 90.98 | 84.55 | 80.87 ²⁾ | 8.30 | 109.61 | 183.48 ²⁾ |

1) 42 - 45 - 50 - 61 = 2200 R.P.M. max.

2) 50 - 61 = 3000 PSI max. int.

Port connection can be furnished with metric threads.

High Pressure Single Vane Pump

HT7E/HT7ES Series

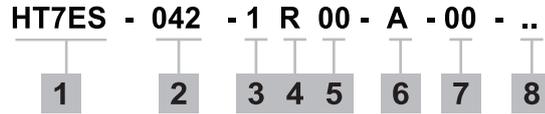
Specification

HT7E, HT7ES for Single pump

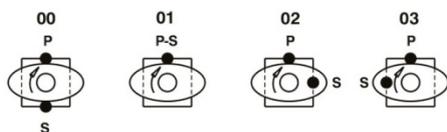
| Size | Displacement cm ³ /r 1(in ³ /r) | Max. Intermittent Pressure bar (psi) | Max. Continuous Pressure bar (psi) | Min. Speed rpm | Max. Speed rpm | Weight |
|------|--|---|---|----------------------|----------------------|-------------|
| 042 | 132.3 (8.07) | 240 (3500) | 206 (3000) | 600 | 2200 | 43.0 (94.6) |
| 045 | 142.4 (8.70) | | | | | |
| 050 | 158.5 (9.67) | | | | | |
| 052 | 164.8 (10.00) | | | | | |
| 054 | 173.8 (10.60) | | | | | |
| 057 | 180.7 (11.02) | | | | | |
| 062 | 196.7 (12.00) | | | | | |
| 066 | 213.3 (13.00) | | | | | |
| 072 | 227.1 (13.86) | 90 (1300) | 75 (1100) | | 2000 | |
| 085 | 269.8 (16.40) | | | | | |

High Pressure Single Vane Pump HT7E/HT7ES Series

Ordering Code : Single Pump



- | | |
|---|--|
| <p>1. Model :</p> <p>Industrial - HT7E ISO 2 bolts 3019-2 mounting flange 125 A2 HW</p> <p>- HT7ES SAE C 2 bolts mounting flange J744</p> <p>2. Displacement</p> <p>Volumetric displacement cm³/rec (in³/rev)</p> <ul style="list-style-type: none"> 042 - 132.3 (8.07) 045 - 142.4 (8.70) 050 - 158.5 (9.67) 052 - 164.8 (10.00) 054 - 173.8 (10.60) 057 - 180.7 (11.02) 062 - 196.7 (12.00) 066 - 213.3 (13.00) 072 - 227.1 (13.86) 085 - 269.8 (16.40) <p>3. Type of shaft</p> <p>HT7E, HT7ES</p> <ul style="list-style-type: none"> 5 - ISO R775-G38M Keyed Shaft <p>HT7ES</p> <ul style="list-style-type: none"> 1 - SAE CC Keyed Shaft 2 - non SAE Keyed Shaft 3 - SAE C Splined Shaft 4 - SAE CC Splined Shaft <p>4. Direction of rotation (Viewed from shaft end)</p> <ul style="list-style-type: none"> R - Turn right L - Turn left <p>5. Porting combination</p> <p>00 - standard</p> | <p>6. Design letter</p> <p>7. Port Connection (4 bolts SAE flange J518C)</p> <ul style="list-style-type: none"> 00 - UNC Port Connection (Except HT7E) M0 - Metric Port Connection <p>8. Modifications</p> <ul style="list-style-type: none"> Omit - Standard 718 - Surface grinding the flange face for the manifold. |
|---|--|

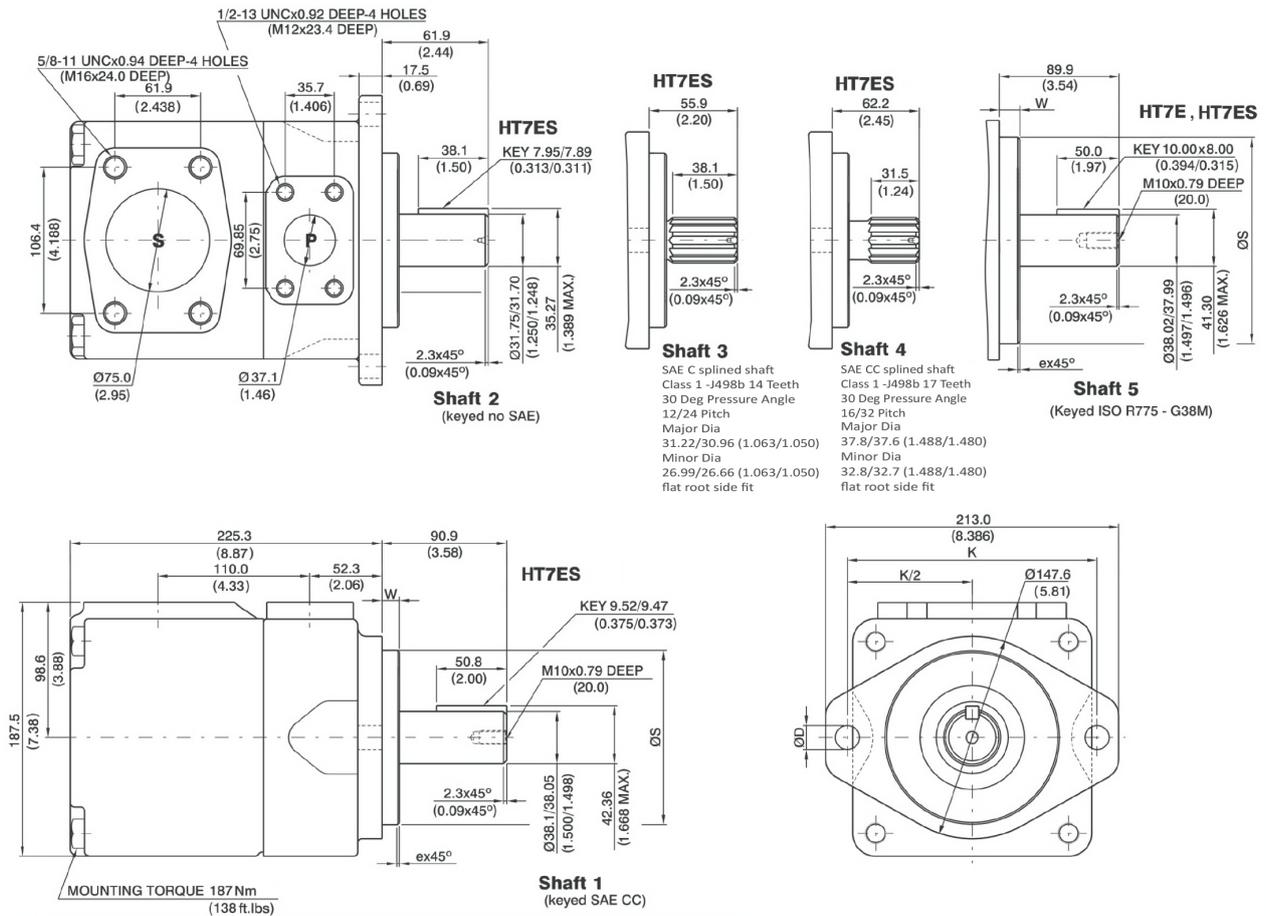


S - Suction port P - Pressure port

High Pressure Single Vane Pump HT7E/HT7ES Series

Installation Dimension mm (inch)

HT7E, HT7ES



Alternate mounting flange

| Series | ØS | | ex45° | W | K | ØD |
|--------|----------------|----------------|-------------|--------------|---------------|--------------|
| | MAX. | MIN. | | | | |
| HT7E | 124.99 (4.921) | 124.94 (4.919) | 2.0 (0.079) | 9.49 (0.374) | 180.0 (7.087) | 18.0 (0.709) |
| HT7ES | 127.00 (5.00) | 126.94 (4.998) | 12.7 (0.50) | 12.7 (0.50) | 181.0 (7.126) | 17.5 (0.689) |

High Pressure Single Vane Pump HT7E/HT7ES Series

Performance Characteristics

HT7E, HT7ES

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

| Series | Volumetric Displacement | Speed n [R.P.M] | Flow Q [GPM] | | | Input power P [HP] | | |
|--------|----------------------------|-----------------|--------------|----------------------|--------------|--------------------|----------------------|--------------|
| | | | p = 0 PSI | p = 2000 PSI | p = 3500 PSI | p = 100 PSI | p = 2000 PSI | p = 3500 PSI |
| 042 | 8.07 in ³ /rev | 1800 | 62.92 | 60.37 | 58.52 | 8.09 | 78.44 | 133.80 |
| 045 | 8.70 in ³ /rev | | 67.72 | 65.17 | 63.32 | 8.37 | 84.04 | 143.60 |
| 050 | 9.67 in ³ /rev | | 75.38 | 72.83 | 70.98 | 8.82 | 92.97 | 159.24 |
| 052 | 10.00 in ³ /rev | | 78.37 | 75.82 | 73.97 | 8.99 | 96.47 | 165.36 |
| 054 | 10.43 in ³ /rev | | 81.27 | 78.72 | 76.87 | 9.17 | 99.75 | 177.46 |
| 057 | 11.18 in ³ /rev | | 87.12 | 84.57 | 82.72 | 9.51 | 106.57 | 189.84 |
| 062 | 12.00 in ³ /rev | | 93.54 | 90.99 | 89.14 | 9.88 | 114.17 | 196.34 |
| 066 | 13.00 in ³ /rev | | 101.44 | 98.89 | 97.04 | 10.34 | 123.38 | 212.46 |
| 072 | 13.86 in ³ /rev | | 108.00 | 105.45 | 103.60 | 10.72 | 131.04 | 225.86 |
| 085 | 16.40 in ³ /rev | | 127.79 | 126.13 ¹⁾ | - | 11.88 | 101.66 ¹⁾ | - |

1) 85 = 1300 PSI max. int.

*Special 3¹/₂ (3.5 dia) suction also available

High Pressure Single Vane Pump

HT6EM/HT6EP Series

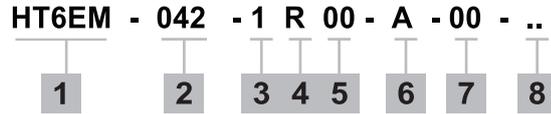
Specification

HT6EM/HT6EP for Single pump

| Size | Displacement cm ³ /r 1(in ³ /r) | Max. Intermittent Pressure bar (psi) | Max. Continuous Pressure bar (psi) | Min. Speed rpm | Max. Speed rpm | Weight |
|------|--|---|---|----------------------|----------------------|-------------|
| 042 | 132.3 (8.07) | 240 (3500) | 206 (3000) | 400 | 2200 | 42.0 (92.4) |
| 045 | 142.4 (8.70) | | | | | |
| 050 | 158.5 (9.67) | | | | | |
| 052 | 164.8 (10.00) | | | | | |
| 062 | 196.7(12.00) | | | | | |
| 066 | 213.3 (13.00) | | | | | |
| 072 | 227.1 (13.86) | | | | | |

High Pressure Single Vane Pump HT6EM/HT6EP Series

Ordering Code : Single Pump



1. Model :

Mobile 1 Shaft seals (M) - HT6EM
 Mobile 2 Shaft seals (P) - HT6EP SAE C 2 bolts
 mounting flange J744

7. Port Connection (4 bolts SAE flange J518C)

00 - UNC Port Connection
 M0 - Metric Port Connection

2. Displacement

Volumetric displacement cm³/rec (in³/rev)
 042 - 132.3 (8.07)
 045 - 142.4 (8.70)
 050 - 158.5 (9.67)
 052 - 164.8 (10.00)
 062 - 196.7 (12.00)
 066 - 213.3 (13.00)
 072 - 227.1 (13.86)

8. Modifications

Omit - Standard
 718 - Surface grinding the flange face for the manifold.

3. Type of shaft

HT6EM
 1 - SAE CC Keyed Shaft
 2 - non SAE Keyed Shaft
 3 - SAE C Splined Shaft
 4 - SAE CC Splined Shaft
 T - SAE J718c Splined Shaft

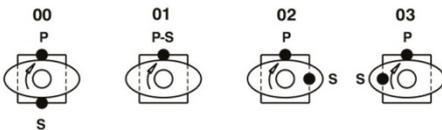
HT6EP
 3 - non SAE Splined Shaft

4. Direction of rotation (Viewed from shaft end)

R - Turn right
 L - Turn left

5. Porting combination

00 - standard



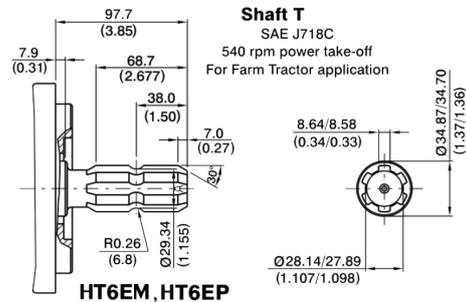
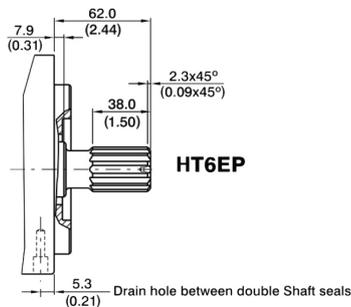
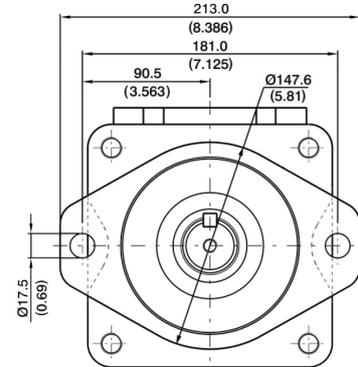
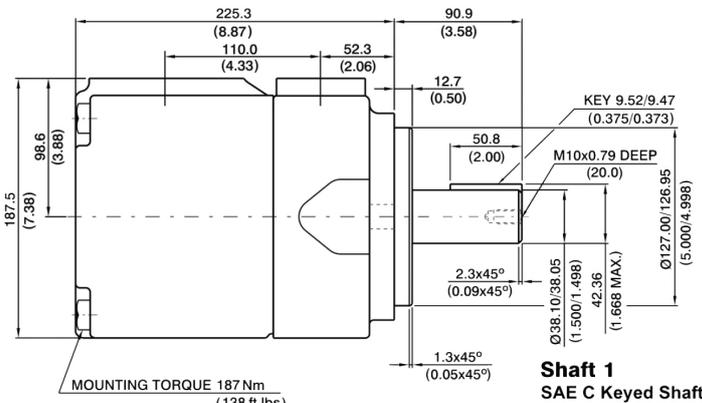
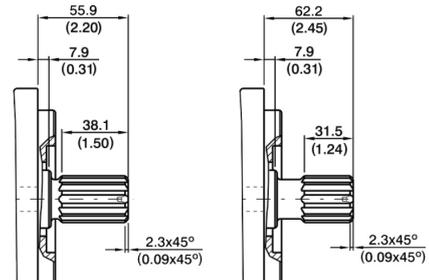
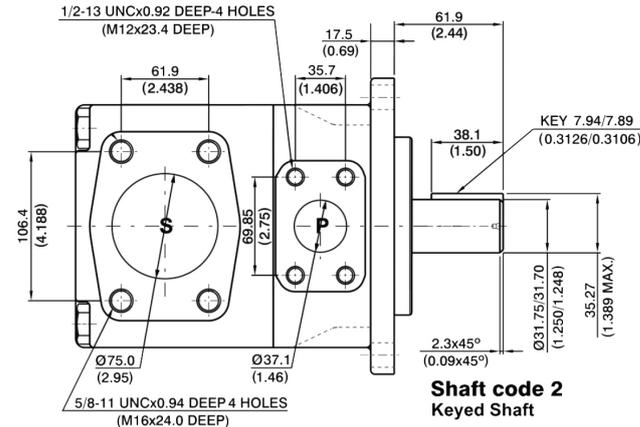
S - Suction port P - Pressure port

6. Design letter

High Pressure Single Vane Pump HT6EM/HT6EP Series

Installation Dimension mm (inch)

HT6EM/HT6EP



Shaft 3
no SAE splined shaft
Class 1 -J498b 14 Teeth
30 Deg Pressure Angle
12/24 Pitch
Major Dia
31.22/30.96 (1.063/1.050)
Minor Dia
26.99/26.66 (1.063/1.050)
flat root side fit

High Pressure Single Vane Pump

HT6EM/HT6EP Series

Performance Characteristics

HT6EM/HT6EP

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

| Series | Volumetric Displacement | Speed n [R.P.M] | Flow Q [GPM] | | | Input power P [HP] | | |
|--------|----------------------------|-----------------|--------------|--------------|--------------|--------------------|--------------|--------------|
| | | | p = 0 PSI | p = 2000 PSI | p = 3500 PSI | p = 100 PSI | p = 2000 PSI | p = 3500 PSI |
| 042 | 8.07 in ³ /rev | 1200 | 41.94 | 39.39 | 37.54 | 5.35 | 52.28 | 89.29 |
| | | 1800 | 62.92 | 60.37 | 58.52 | 8.09 | 78.44 | 133.80 |
| 045 | 8.70 in ³ /rev | 1200 | 45.15 | 42.60 | 40.75 | 4.33 | 54.72 | 94.43 |
| | | 1800 | 67.12 | 65.17 | 63.32 | 6.87 | 82.09 | 141.51 |
| 050 | 9.67 in ³ /rev | 1200 | 50.25 | 47.70 | 45.85 | 4.63 | 60.68 | 104.85 |
| | | 1800 | 75.38 | 72.83 | 70.98 | 7.32 | 91.02 | 157.15 |
| 052 | 10.00 in ³ /rev | 1200 | 52.25 | 49.70 | 47.85 | 4.75 | 63.01 | 108.93 |
| | | 1800 | 78.37 | 75.82 | 73.97 | 7.49 | 94.52 | 163.27 |
| 062 | 12.00 in ³ /rev | 1200 | 62.36 | 59.81 | 57.96 | 5.34 | 74.81 | 129.58 |
| | | 1800 | 93.54 | 90.99 | 89.14 | 8.38 | 112.22 | 194.24 |
| 066 | 13.00 in ³ /rev | 1200 | 67.62 | 65.07 | 63.22 | 5.65 | 80.95 | 140.33 |
| | | 1800 | 101.44 | 98.89 | 97.04 | 8.84 | 121.43 | 210.37 |
| 072 | 13.86 in ³ /rev | 1200 | 72.00 | 69.45 | 67.60 | 5.90 | 86.05 | 149.26 |
| | | 1800 | 108.00 | 105.45 | 103.60 | 9.22 | 129.09 | 223.77 |

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