

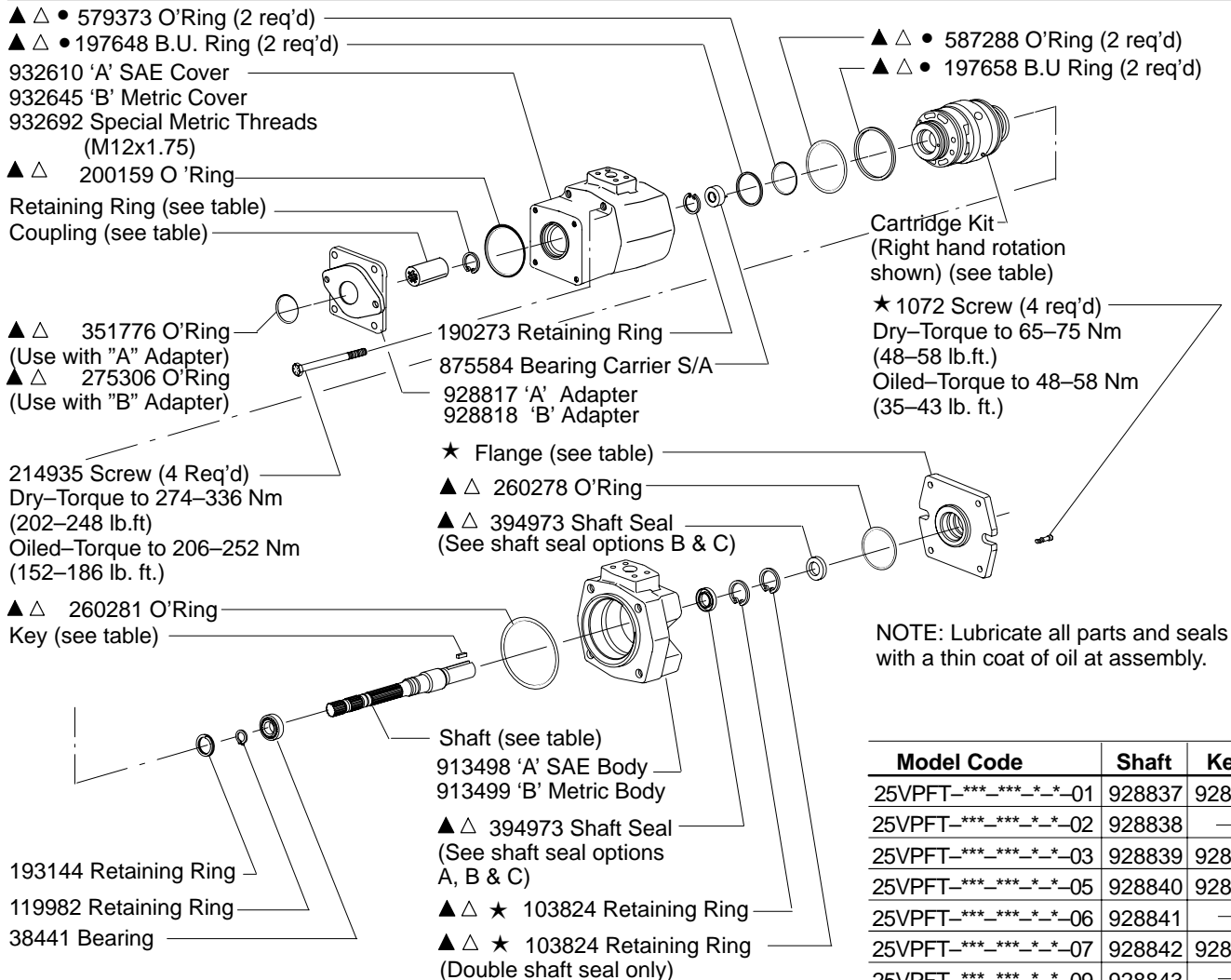
High Pressure, High Performance Thru-Drive Vane Pump

25VPFT Series - 21 Design

OUT OF PRINT

Service Data

High Pressure, High Performance Thru-Drive Vane Pump 25VPFT Series - 21 Design



Parts prefixed with symbols are available only in kits. (See back page)

| Model Code | • Cartridge Kit (Standard) | • Cartridge Kit (Viton®) |
|------------|----------------------------|--------------------------|
| 25VPFT-010 | 02-319101 | 02-319102 |
| 25VPFT-016 | 02-319103 | 02-319104 |
| 25VPFT-025 | 02-319105 | 02-319106 |
| 25VPFT-032 | 02-319107 | 02-319108 |
| 25VPFT-040 | 02-319109 | 02-319110 |
| 25VPFT-050 | 02-319111 | 02-319112 |
| 25VPFT-063 | 02-319113 | 02-319114 |
| 25VPFT-071 | 02-319115 | 02-319116 |
| 25VPFT-080 | 02-319117 | 02-319118 |

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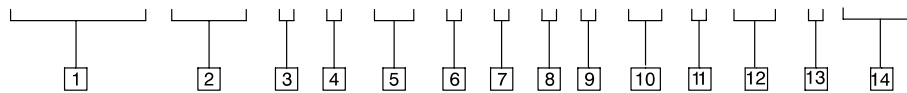
| Model Code | Shaft | Key |
|----------------------|--------|--------|
| 25VPFT-***-***-**-01 | 928837 | 928540 |
| 25VPFT-***-***-**-02 | 928838 | — |
| 25VPFT-***-***-**-03 | 928839 | 928545 |
| 25VPFT-***-***-**-05 | 928840 | 928541 |
| 25VPFT-***-***-**-06 | 928841 | — |
| 25VPFT-***-***-**-07 | 928842 | 928546 |
| 25VPFT-***-***-**-09 | 928843 | — |

| Model Code | Coupling | Retaining Ring |
|----------------------|----------|----------------|
| 25VPFT-***-***-**-16 | 932607 | 83003 & 108115 |
| 25VPFT-***-***-**-22 | 932606 | 83003 (qty 2) |
| 25VPFT-***-***-**-25 | 932604 | 83003 |

| Flange Type | ★ Flange Kit | |
|------------------------|-------------------|-------------------|
| | Single Shaft Seal | Double Shaft Seal |
| SAE J744-101-2 (SAE B) | 02-142476 | 02-142480 |
| ISO 3019/2-100A2HW | 02-142477 | 02-142481 |
| SAE J744 127-2 (SAE C) | 02-142478 | 02-142482 |
| ISO 3019/2-125A2HW | 02-142479 | 02-142483 |

Model Code

25VPFT - * * * - * - * - * * - * - * - * * - * * - * - * - * * - 21 - * - * * *



1 Series designation (frame size)

25VPFT – 10 to 80 cm³/r
(.61 to 4.88 in³/r)

2 Displacement

010 – 10 cm³/r (0.61 in³/r)
016 – 16 cm³/r (0.97 in³/r)
025 – 25 cm³/r (1.52 in³/r)
032 – 32 cm³/r (1.95 in³/r)
040 – 40 cm³/r (2.44 in³/r)
050 – 50 cm³/r (3.05 in³/r)
063 – 63 cm³/r (3.84 in³/r)
071 – 71 cm³/r (4.33 in³/r)
080 – 80 cm³/r (4.88 in³/r)

3 Port connection

A – SAE 4-bolt flange
B – Metric 4-bolt flange

4 Flange mounting style

A – SAE J744 101–2 (SAE B)
B – ISO 3019/2 100A2HW
C – SAE J744 127–2 (SAE C)
D – ISO 3019/2 125A2HW

5 Shaft

01 – SAE J744 25–1
(1.00 in keyed shaft)
02 – SAE J744 25–4
(B–B splined shaft)
03 – ISO 3019/2 E25N
(25mm keyed shaft)
05 – SAE J744 32–1
(1.25 in keyed shaft)
06 – SAE J744 32–4
(C splined shaft)
07 – ISO 3019/2 E32N
(32mm keyed shaft)
09 – SAE J744 22–4
(B splined shaft)

6 Shaft seal

A – Single, primary
B – Double, secondary (spring side out)
C – Double, secondary (spring side in)

7 Seal type

N – Standard, Buna N
V – Viton®
W – Buna N with Viton® shaft seal(s)

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8 Outlet port position (viewed from adapter end)

A – Opposite inlet port
B – 90° counterclockwise from inlet port
C – Inline with inlet port
D – 90° clockwise from inlet port

9 Rear Mount Style

A – SAE J744 82–2 (SAE A)
B – SAE J744 101–2 (SAE B)

10 Coupling (viewed from shaft end)

16 – SAE J744 16–4 (A spline)
22 – SAE J744 22–4 (B spline)
25 – SAE J744 25–4 (B–B spline)

11 Rear adapter flange orientation

A – Inline with mounting flange
B – 90° from mounting flange

12 Design

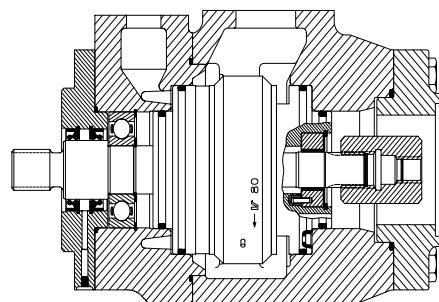
13 Rotation (viewed from shaft end)

R – Right hand (clockwise)
L – Left hand (counterclockwise)

14 Special feature suffix

- ▲ 02–322248 STD Seal Kit, Single Shaft Seal or
02–322250 Viton® Seal Kit, Single Shaft Seal.
- △ 02–322249 STD Seal Kit, Double Shaft Seal or
02–322251 Viton® Seal Kit, Double Shaft Seal.
- Included in Cartridge Kit (see table)
- ★ Included in Flange Kit (see table)

To reverse Cartridge rotation remove Retaining Ring and Bearing Carrier S/A. Install Bearing Carrier S/A and Retaining Ring in opposite end of Cartridge and reinstall Cartridge facing in opposite direction. For R.H. rotation the end of the Cartridge with screw heads showing will be installed toward the cover end. For L.H. rotation the end of the Cartridge with screw heads showing will be installed toward the shaft end.



Typical sectional view

Shaft Seal Option

A – Primary seal only: sealing member facing inward.
B – Primary and secondary seals: primary seal with spring loaded sealing member facing inward and secondary seal with spring loaded sealing member facing outward.
C – Primary and secondary seals: both with spring loaded sealing member facing inward.

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