High Pressure, High Performance Vane Pump
25VPF Series – 21 Design

OUT OF PRINT
### High Pressure, High Performance Vane Pump

#### 25VPF Series – 21 Design

- **913500 ‘A’ SAE Cover**
- **913501 ‘B’ Metric Cover**
- **928439 Special Metric Threads (M12x1.75)**
- **42022 Screw (4 Req’d)**
  - Dry–Torque to 274–336 Nm (223–248 lb.ft.)
  - Oiled–Torque to 206–252 Nm (152–186 lb. ft.)

- **394973 Shaft Seal**
- **260278 O’Ring**
- **913498 ‘A’ SAE Body**
- **913499 ‘B’ Metric Body**
  - (See shaft seal options A, B and C)
- **197648 B.U. Ring (2 Req’d)**
- **579373 O’Ring (2 req’d)**
- **587288 O’Ring (2 req’d)**
- **38441 Bearing**
- **1072 Screw (4 Req’d)**
  - Dry–T orque to 65–79 Nm (48–58 lb.ft.)
  - Oiled–T orque to 48–58 Nm (35–43 lb. ft.)
- **197658 B.U Ring (2 Req’d)**
- **38441 Bearing**
- **260281 O’Ring**
- **119982 Retaining Ring**
- **193144 Retaining Ring**
- **190273 Retaining Ring**

#### Flange Kit

- **913498 ‘A’ SAE Body**
- **913499 ‘B’ Metric Body**
  - ▲ ▲ 394973 Shaft Seal
    - (See shaft seal options A, B and C)
  - ▲ ▲ 103824 Retaining Ring
  - (Double shaft seal only)
  - ▲ ▲ 260278 O’Ring

- **Flange (see table)**
  - ▲ ▲ 103824 Retaining Ring
  - (Double shaft seal only)

#### Model Code

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Shaft</th>
<th>Key</th>
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<tbody>
<tr>
<td>25VPF–<em><strong>–</strong></em>–<em>–</em>–01</td>
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#### Flange Type

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<th>Flange Type</th>
<th>▲ ▲ Flange Kit</th>
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<tr>
<td>Single Shaft Seal</td>
<td>Double Shaft Seal</td>
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<tr>
<td>SAE J744–101–2 (SAE B)</td>
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<tr>
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<td>SAE J744 127–2 (SAE C)</td>
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<td>ISO 3019/2–125A2HW</td>
<td>02–142479</td>
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#### Service Data

**NOTE:** Lubricate all parts and seals with a thin coat of oil at assembly. Parts prefixed with symbols are available only in kits (see back page).

### Model Code

<table>
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<tr>
<th>Model Code</th>
<th>▲ ▲ ▲ Cartridge Kit (Standard)</th>
<th>▲ ▲ ▲ Cartridge Kit (Viton®)</th>
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<td>25VPF–010</td>
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<td>25VPF–016</td>
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Viton® is a registered trademark of E.I. DuPont Co.
Model Code

25VPF - * * * * * * * * * * * * * 21 - * * *

1 Series designation (frame size)
25VPF – 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 cover end)
A – Opposite inlet port
B – 90° counterclockwise from inlet port
C – Inline with inlet port
D – 90° clockwise from inlet port

9 Design

10 Rotation (viewed from shaft end)
R – Right hand (clockwise)
L – Left hand (counterclockwise)

11 Special feature suffix

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.

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.

02–142419 STD Seal Kit, Single Shaft Seal or
02–142421 Viton® Seal Kit, Single Shaft seal.
02–142420 STD Seal Kit, Double Shaft Seal or
02–142422 Viton® Seal Kit, Double Shaft Seal.

Typical sectional view