Service Data

Vickers®
Vane Pumps

High Pressure, High Performance Vane Pump

25VPF Series – 21 Design

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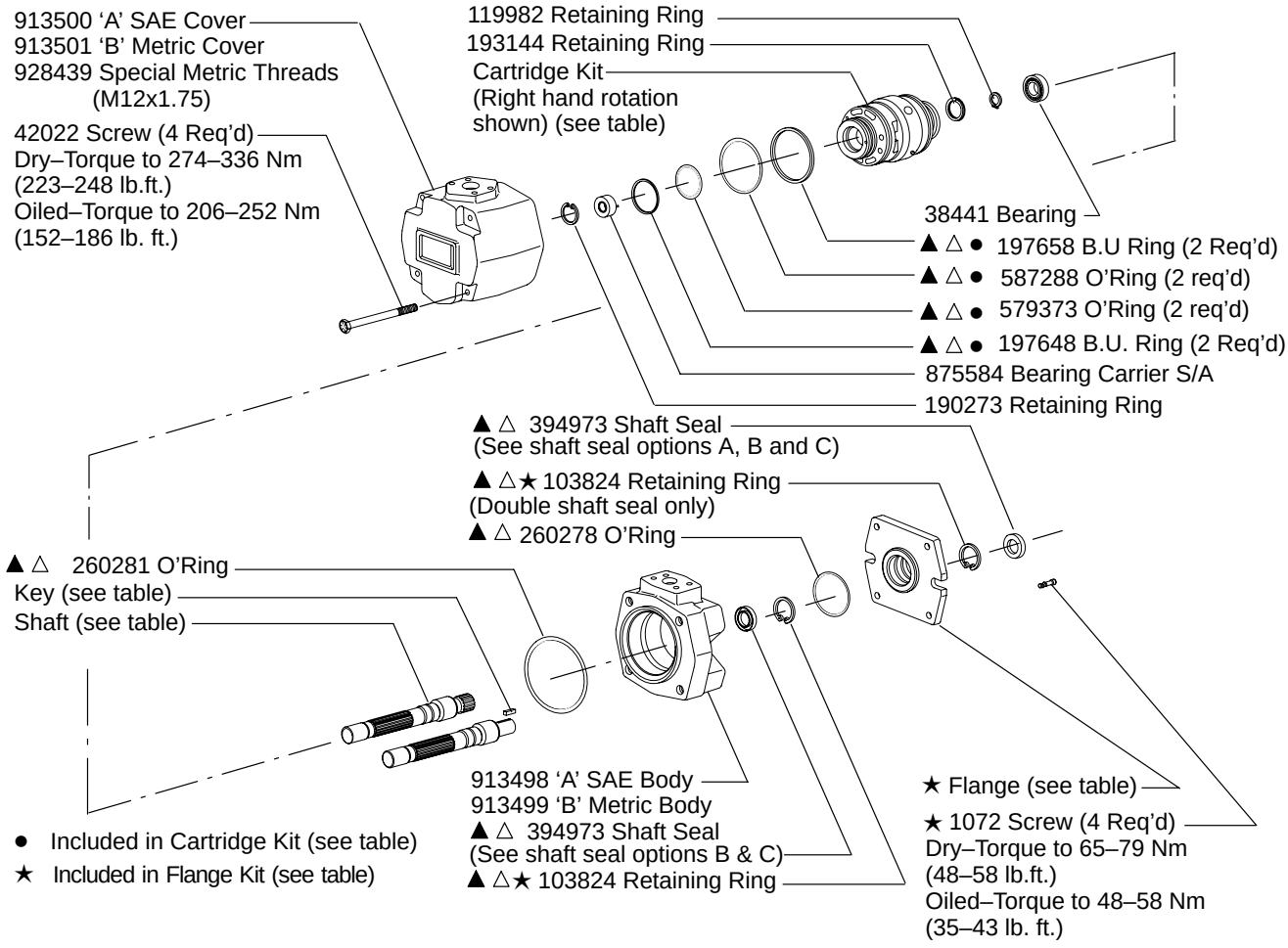

Model Code	Shaft	Key
25VPF–***–***–*–*–01	883194	928540
25VPF–***–***–*–*–02	860349	—
25VPF–***–***–*–*–03	883195	928545
25VPF–***–***–*–*–05	883197	928541
25VPF–***–***–*–*–06	883198	—
25VPF–***–***–*–*–07	883199	928546
25VPF–***–***–*–*–09	913294	—

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

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	● Cartridge Kit (Standard)	● Cartridge Kit (Viton®)
25VPF–010	02–319101	02–319102
25VPF–016	02–319103	02–319104
25VPF–025	02–319105	02–319106
25VPF–032	02–319107	02–319108
25VPF–040	02–319109	02–319110
25VPF–050	02–319111	02–379112
25VPF–063	02–319113	02–319114
25VPF–071	02–319115	02–319116
25VPF–080	02–319117	02–319118

Viton® is a registered trademark of E.I. DuPont Co.

Model Code

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

1 2 3 4 5 6 7 8 9 10 11

1 Series designation (frame size)

25VPF – 10 to 80 cm^3/r
(.61 to 4.88 in^3/r)

2 Displacement

010 – 10 cm^3/r (0.61 in^3/r)
016 – 16 cm^3/r (0.97 in^3/r)
025 – 25 cm^3/r (1.52 in^3/r)
032 – 32 cm^3/r (1.95 in^3/r)
040 – 40 cm^3/r (2.44 in^3/r)
050 – 50 cm^3/r (3.05 in^3/r)
063 – 63 cm^3/r (3.84 in^3/r
071 – 71 cm^3/r (4.33 in^3/r)
080 – 80 cm^3/r (4.88 in^3/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)

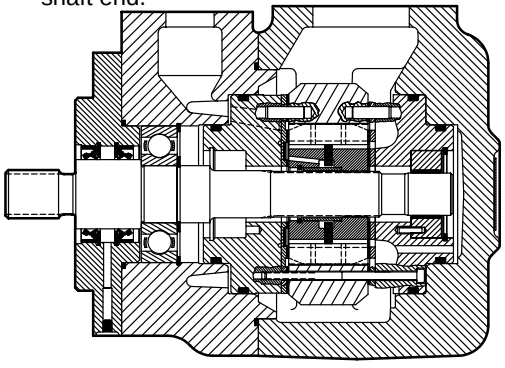
R – Right hand (clockwise)
L – Left hand (counterclockwise)

11 Special feature suffix

▲ 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.

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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