Service Data

Vickers® Vane Pumps



High Pressure, High Performance Vane Pump

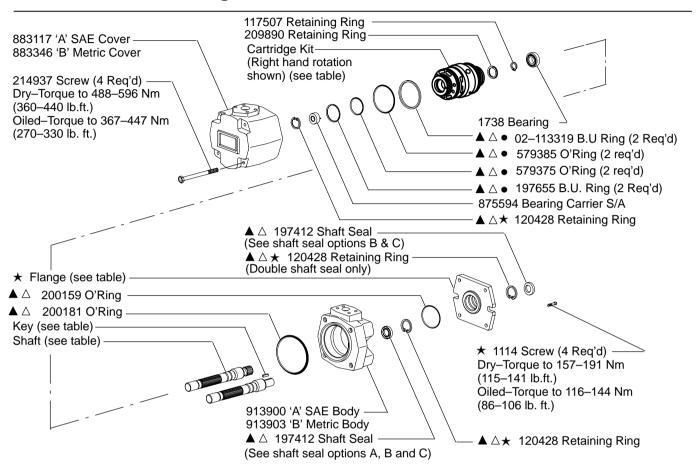
45VPF Series – 21 Design



Service Data

High Pressure, High Performance Vane Pump

45VPF Series - 21 Design



Included in Cartridge Kit (see table)

★ Included in Flange Kit (see table)

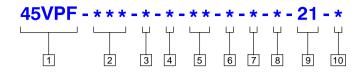
| • , | | | |
|---------------------|--------|--------|--|
| Model Code | Shaft | Key | |
| 45VPF-***-**-*-*-01 | 883356 | 928542 | |
| 45VPF-***-**-*-02 | 883357 | _ | |
| 45VPF-***-**-*-03 | 883358 | 928547 | |
| 45VPF-***-**-*-05 | 883359 | 928543 | |
| 45VPF-***-**-*-06 | 860370 | | |

★ Flange Kit Single Shaft **Double Shaft** Flange Type Seal Seal SAE J744-127 (SAE C) 02-142497 02-142501 ISO 3019/2-125A2HW 02-142498 02-142502 SAE J744 152-2 (SAE D) 02-142499 02-142503 ISO 3019/2-160A2HW 02-142500 02-142504

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®) |
|------------|--|--|
| 45VPF-140 | 02-322069 | 02-322070 |
| 45VPF-160 | 02-322071 | 02-322072 |
| 45VPF-180 | 02-322073 | 02-322074 |
| 45VPF-195 | 02-322075 | 02-322076 |

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



Series designation (frame size)

 $45VPF - 140 \text{ to } 195 \text{ cm}^3/\text{r}$ (8.54 to 11.90 in³/r)

2 Displacement

 $140 - 140 \text{ cm}^3/\text{r} (8.54 \text{ in}^3/\text{r})$ $160 - 160 \text{ cm}^3/\text{r} (9.76 \text{ in}^3/\text{r})$ $180 - 180 \text{ cm}^3/\text{r} (10.98 \text{ in}^3/\text{r})$ $195 - 195 \text{ cm}^3/\text{r} (11.90 \text{ in}^3/\text{r})$

3 Port connection

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

4 Flange mounting style

A - SAE J744 127-2 (SAE C) B - ISO 3019/2 125A2HW

C - SAE J744 152-2 (SAE D)

D - ISO 3019/2 160A2HW

5 Shaft end

01 - SAE J744 38-1 (1.50 in keyed shaft)

02 - SAE J744 38-4 (C-C splined shaft)

03 - ISO 3019/2 E40N (40mm keyed shaft)

05 - SAE J744 44-1 (1.75 in keyed shaft)

06 - SAE J744 44-4 (D 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)

- 02–142427 STD Seal Kit, Single Shaft Seal or 02–142429 Viton® Seal Kit, Single Shaft seal.
- △ 02–142428 STD Seal Kit, Double Shaft Seal or 02–142430 Viton® Seal Kit, Double Shaft Seal.

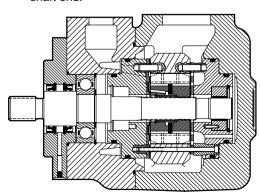
To reverse Cartridge rotation remove Retaining Ring and Bearing Carrier S/A. Install Bearing Carrier S/A and Retaining Ring in opposite end of Cartridge and reinstall Cartridge facing in opposite direction. For R.H. rotation the end of the Cartridge with screw heads showing will be installed toward the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

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.



Typical sectional view

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