Service Data

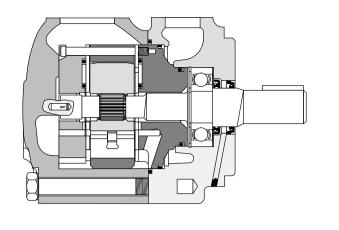
Vane Pumps



Vane Type Single Pump

45VQ**A-86*-20(L)



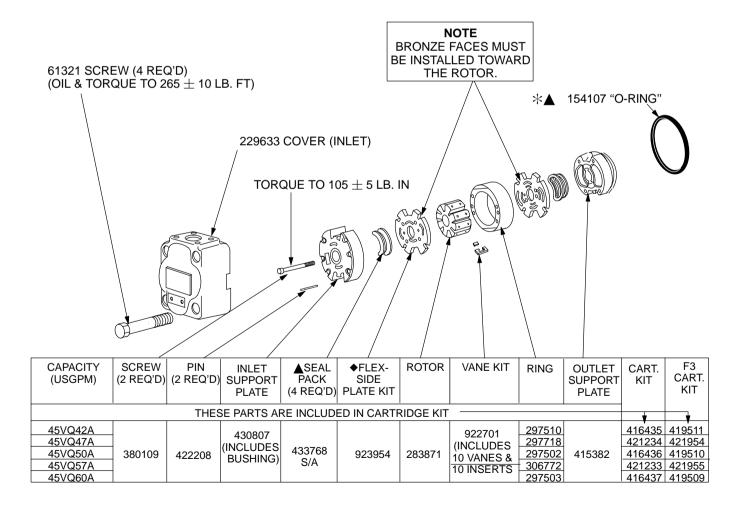


→ TO REVERSE CATRIDGE KIT ROTATION, REMOVE THE TWO (2) 413834 SCREWS, AND REVERSE THE LOCATION OF THE INLET SUPPORT PLATE 430805 AND OUTLET SUPPORT PLATE 419079. REINSTALL THE TWO (2) SCREWS HAND TIGHT. USE PUMP COVER TO ALIGN ALL SECTIONS OF THE CARTRIDGE. REMOVE COVER CAREFULLY AND TIGHTEN SCREWS TO 50 LB. IN. TORQUE.

☐ WIPE O.D. OF SEAL WITH OIL BEFORE PRESSING INTO BODY. APPLY GREASE TO SEAL I.D. BEFORE INSTALLATION OF SHAFT.

MINCLUDED IN SINGLE SHAFT SEAL KIT 920025 F3 EQUIVALENT 920027 △ INCLUDED IN DOUBLE SHAFT SEAL KIT 920026 F3 EQUIVALENT 920028

*INCLUDED IN CARTRIDGE KIT



O ASSEMBLE SEAL WITH SPRING TOWARD BEARING.

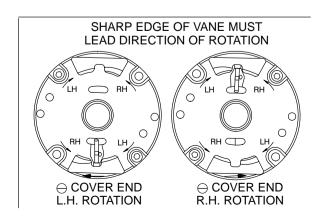
ASSEMBLE SEAL FLUSH TO

MOUNTING ASSEMBLY PILOT FACE WITH SPRING FACING 45VQ***F-**-20(L) INWARD AS SHOWN. INCLUDED IN **MOUNTING SCREW** MOUNTING KIT (2 REQ'D) **BRACKET** FB-B-10 205077 205533 Δ□● 429282 SHAFT SEAL (USE ON "S" FLANGE MOUNTED MODELS ONLY) 942356 BODY S/A KIT (OUTLET) 0 ▲□○ 394974 SHAFT SEAL 194878 WASHER KEY (SEE TABLE) **131812 BEARING** 102949 SNAP RING **158630 SNAP RING *▲** 588509 BACK-IP RING 154087 "O" RING SCREW (SEE TABLE) ***▲** 419675 RING SEALING (ASSEMBLY NOTE: INSTALL IN **BODY BEFORE INSTALLATION** OF CARTRIDGE KIT.) **SHAFTS** SINGLE SEAL DOUBLE SEAL **KEY TYPE MODELS MODELS** SHAFT **PART SHAFT PART** NO. NO. NO. STRAIGHT, KEYED 233369 217596 1 4 233370 **SPLINE SPLINE** 11 242885

♦ NOTE

WHEN ORDERED INDIVIDUALLY, FLEX SIDE PLATE KIT INCLUDES (4) F3 SEAL PACK SUB ASSY'S.

86



SPLINE

239751

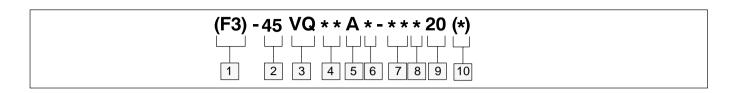
STRAIGHT, KEYED

130

361760

422541

Model Code



1 Viton Seals

(Omit if not required.)

2 Series

3 Vane Type

4 SAE Rated Capacity

(Rating @ 1200 RPM - 100 psi) (See Inside for Capacities.)

5 Port Connections

A - SAE 4-Bolt Flange

6 Mounting & Shaft Seals Assembly

F - Foot (Single Shaft Seal Assy.) S - Flange (Double Shaft Seal Assy.) Omitted-Flange (Single Shaft Seal Assy.)

7 Shafts

See Tabulation, Exploded View.

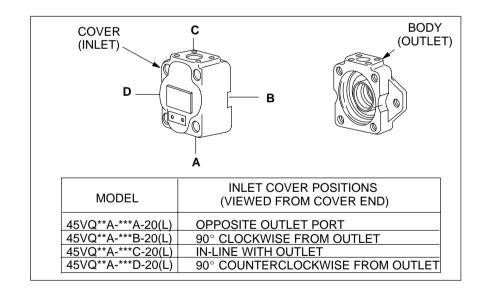
8 Port Positions

See Chart Below

9 Design

10 Rotation

(Viewed from Shaft End)
L - Left Hand (CCW Rotation)
Omitted - Right Hand Rotation





PARTS ORDERING

PARTS ARE THE SAME FOR BOTH RIGHT AND LEFT HAND ROTATION, WHEN ORDERING SPARE CARTRIDGE PARTS, IT IS RECOMMENDED THEY BE OBTAINED IN CARTRIDGE KITS. KITS ARE ASSEMBLED AND TESTED FOR EITHER RIGHT OR LEFT HAND ROTATION. IF LEFT HAND ROTATION IS REQUIRED, IT SHOULD BE SPECIFIED ON PARTS ORDER BY ADDING SUFFIX "L" TO KIT NUMBER. FOR EXAMPLE, 416439-L.

For satisfactory service life of these components, use full flow filtration to provide fluid which meets ISO cleanliness code 16/13 or cleaner. Selections from pressure, return, and in-line filter series are recommended.