

Vane Type Single Pump

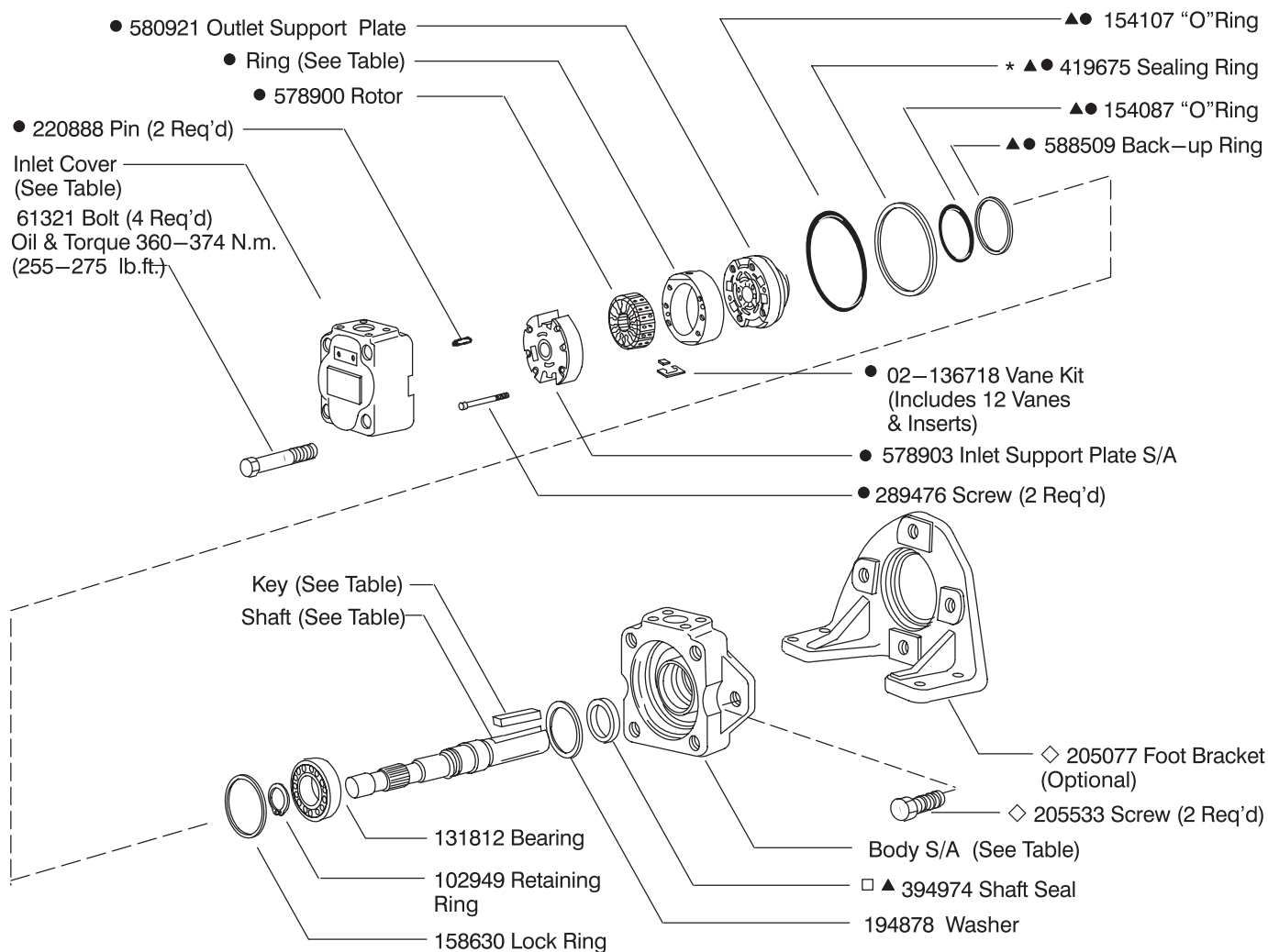
45V(M)--A(M)(F)-**-22-***

AX432878798053en-000101

Service Data

Vane Type Single Pump

45V(M)—**A(M)(F)—**—22—*



SHAFT	TYPE	KEY
233369	(1) keyed	217596
242885	(11) splined	—
361760	(86) keyed	239751
850612	(192N) keyed	472303

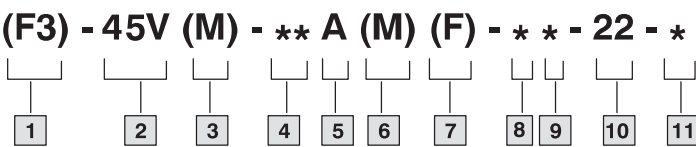
MODEL	INLET COVER	BODY S/A
45V**A	229633	942356
45VM**AM	478504	02-136926
45VM**A	229633	02-136925

MODEL	RING	● CART KIT	F3 CART KIT
45V42	581679	02—102572	02—102576
45V45	582570	02—102573	02—102593
45V50	581680	02—102574	02—102577
45V60	578904	02—102575	02—102578

☐ Assemble seal with spring loaded sealing member towards bearing. Seals to be completely wetted with oil prior to assembly.

- Included in cartridge kit
- ▲ Included in seal kit 919850
- F3 equivalent seal kit 919632
- ◇ Included in foot bracket kit FB—C—10
- * Install 419675 sealing ring into body, then install cartridge kit.

Model Code



1 Special seals

2 Series designation

45V – 138 to 193 cm³/r
(8.41 to 11.75 in³/r)

3 Pilot designation

M – Metric per ISO 3019/2 100A2HW
Omit – Standard pilot

4 Geometric displacement

(Rated capacity (USgpm) at
1200 rpm, 6.9 bar (100 psi)

Code	cm ³ /r	in ³ /r
42	138	8.41
45	147	9.00
50	162	9.85
60	193	11.75

5 Port connections

A – SAE 4 bolt flange

6 Port connection modifier

M – Metric port connection
(4 bolt flange)
Omit – Inch thread port connection
(4 bolt flange)

7 Mounting

F – Foot mounting
Omit – Flange mounting

8 Shaft

1 – Straight keyed
11 – Splined
86 – Heavy duty straight keyed
192N – Straight keyed (M pilot only)

9 Outlet positions

(Viewed from cover end of pump)

A – Opposite inlet port
B – 90° CCW from inlet
C – Inline with inlet
D – 90° CW from inlet

10 Design

11 Rotation

(Viewed from shaft end of pump)
L – Left hand for counterclockwise
R – Right hand for clockwise

NOTE

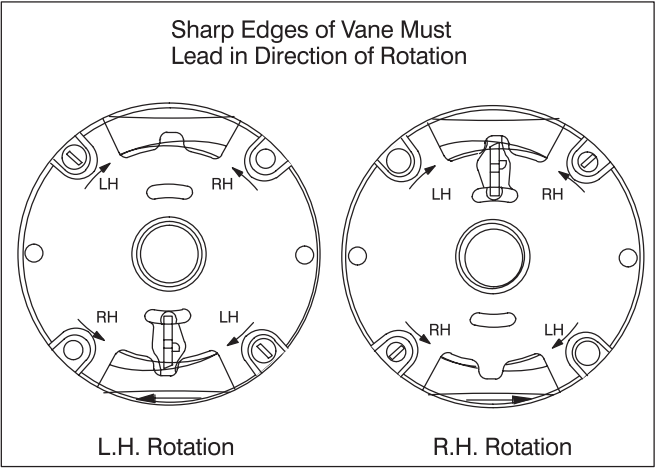
To reverse cartridge kit rotation, remove the two screws and reverse the location of the inlet support plate and outlet support plate. Re-install the two screws hand tight. Use pump cover to align all sections of the cartridge. Carefully remove the cover and tighten the screws.

NOTE

For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 16/13 or cleaner. OFP, OFR, and OFRS series filters are recommended.

NOTE

When ordering spare cartridge parts, it is recommended they be obtained in cartridge kits. Kits are assembled and tested by Danfoss 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 cartridge kit number.



Products we offer:

- Cartridge valves
- DCV directional control valves
- Electric converters
- Electric machines
- Electric motors
- Gear motors
- Gear pumps
- Hydraulic integrated circuits (HICs)
- Hydrostatic motors
- Hydrostatic pumps
- Orbital motors
- PLUS+1® controllers
- PLUS+1® displays
- PLUS+1® joysticks and pedals
- PLUS+1® operator interfaces
- PLUS+1® sensors
- PLUS+1® software
- PLUS+1® software services, support and training
- Position controls and sensors
- PVG proportional valves
- Steering components and systems
- Telematics

Danfoss Power Solutions is a global manufacturer and supplier of high-quality hydraulic and electric components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market as well as the marine sector. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of applications. We help you and other customers around the world speed up system development, reduce costs and bring vehicles and vessels to market faster.

Danfoss Power Solutions – your strongest partner in mobile hydraulics and mobile electrification.

Go to www.danfoss.com for further product information.

We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Local address:

Hydro-Gear

www.hydro-gear.com

Daikin-Sauer-Danfoss

www.daikin-sauer-danfoss.com

**Danfoss
Power Solutions (US) Company**
2800 East 13th Street
Ames, IA 50010, USA
Phone: +1 515 239 6000

**Danfoss
Power Solutions GmbH & Co. OHG**
Krokamp 35
D-24539 Neumünster, Germany
Phone: +49 4321 871 0

**Danfoss
Power Solutions ApS**
Nordborgvej 81
DK-6430 Nordborg, Denmark
Phone: +45 7488 2222

**Danfoss
Power Solutions Trading
(Shanghai) Co., Ltd.**
Building #22, No. 1000 Jin Hai Rd
Jin Qiao, Pudong New District
Shanghai, China 201206
Phone: +86 21 2080 6201