

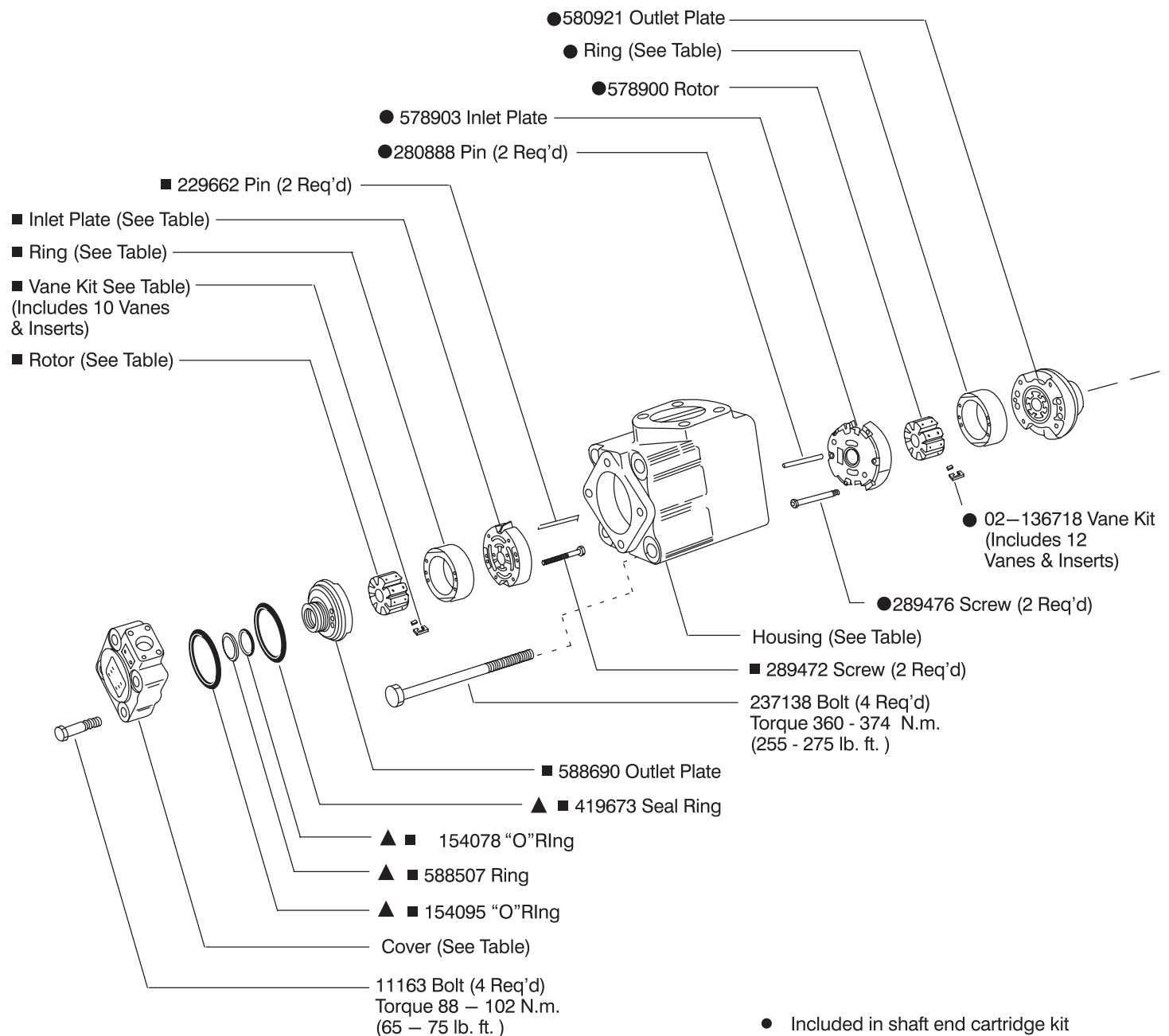


Vane Type Double Pump

(F3)—4525V(M)—**A(M)**(F)—**—22—*

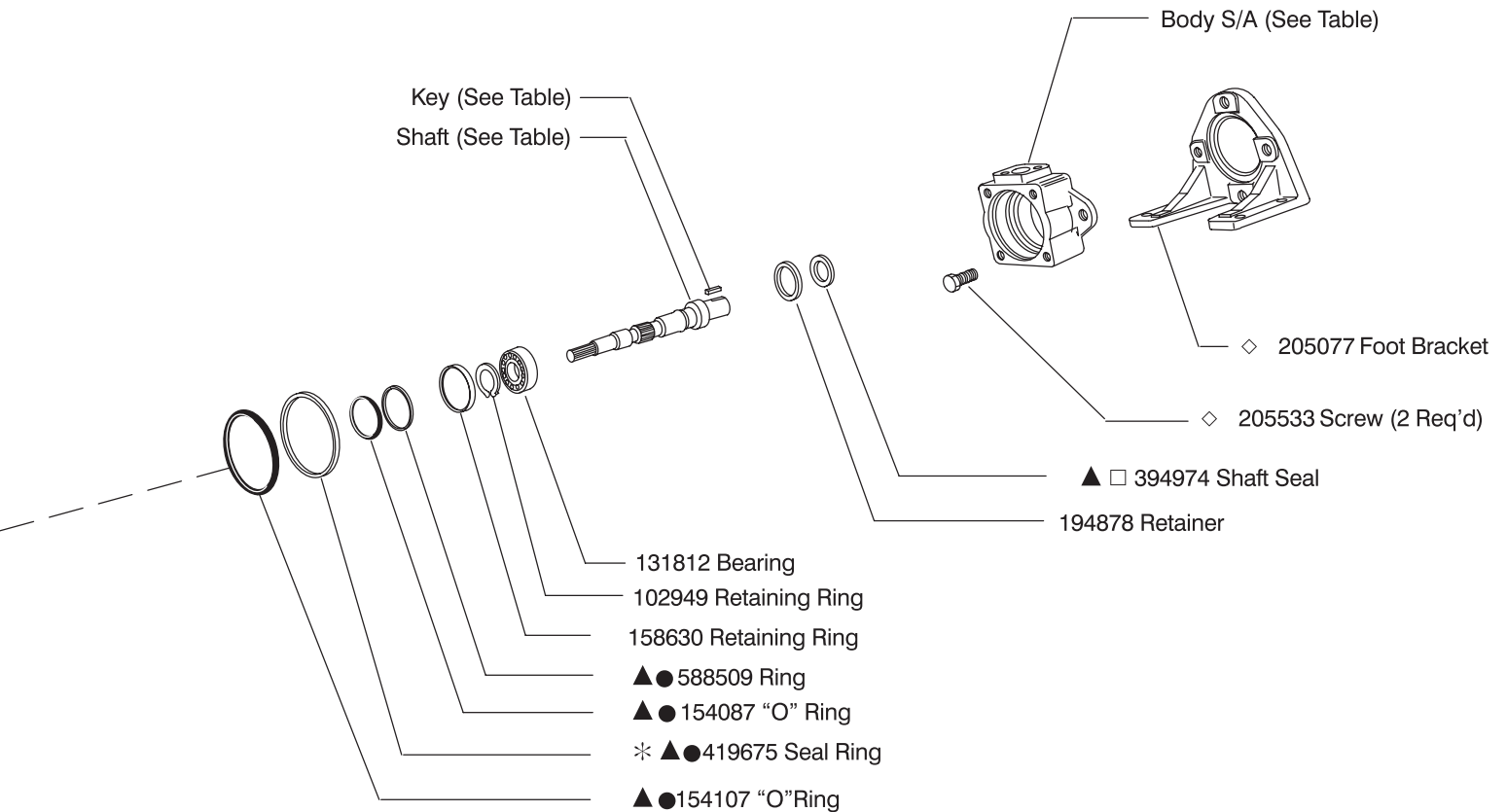
AX438765487835en-000101

Model	■ Rotor	■ Vane kit	■ Ring	■ Inlet Plate	Cover End ■ Cart. Kit	Cover End ■ F3 Cart. Kit
4525V***12	584618	02-136719	584610	588689	02-102536	02-102544
4525V***14			584612		02-102537	02-102545
4525V***17			584614		02-102538	02-102546
4525V***21			584616		02-102539	02-102547



- Included in shaft end cartridge kit
- Included in cover end cartridge kit
- ▲ Included in seal kit 922865
F3 equivalent seal kit 919345
- ◇ Included in foot bracket kit FB-C-10
- Assemble seal with spring loaded sealing member towards bearing. Seals to be completely wetted with oil prior to assembly.
- * Install 419675 sealing ring into body, then install cartridge kit.

MODEL	● RING	Shaft End ● CART KIT	Shaft End ● F3 CART KIT
4525V42	581679	02-102572	02-102576
4525V50	581680	02-102574	02-102577
4525V60	578904	02-102575	02-102578

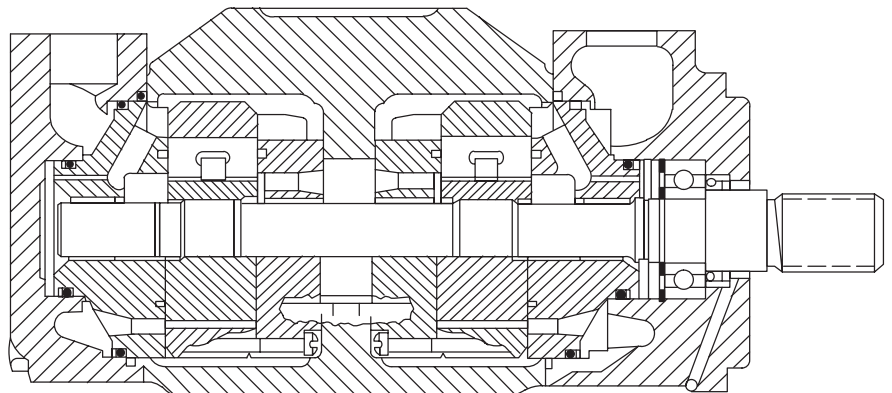


MODEL	COVER	HOUSING	BODY S/A
4525V**A	231532	370071	942356
4525V**E	242250		942356
4525VM**A	231532	875778	02-136925
4525VM**AM	478511		02-136926

SHAFT	TYPE	KEY
233524	(1) keyed	217596
233527	(11) splined	—
361762	(86) keyed	239751
850614	(192N) keyed	472303

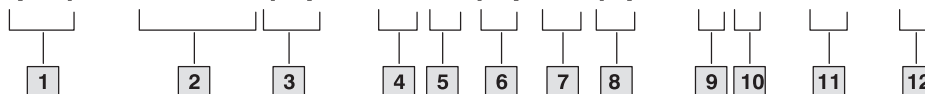
NOTE

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.



Model Code

(F3) - 4525V (M) - ** A (M) ** (F) - * * - 22 - *



1 Special seals

2 Series designation

Displacements cm^3/r (in^3/r)

Model	Shaft end	Cover end
4525V	138 – 193 (8.41 – 11.75)	40 – 67 (2.47 – 4.13)

3 Pilot designation

M – Metric per ISO 3019/2 100A2HW

Omit – Standard pilot

4 Geometric displacement

Shaft end pump

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

Frame size	Code	cm^3/r	in^3/r
4525V	42	138	8.41
	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 Geometric displacement

Cover end pump

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

Frame size	Code	cm^3/r	in^3/r
4525V	12	40	2.47
	14	45	2.78
	17	55	3.39
	21	67	4.13

8 Mounting

F – Foot mounting

Omit – Flange mounting

9 Shaft

1 – Straight keyed

11 – Splined

86 – Heavy duty straight keyed

192N – Straight keyed (M pilot only)

10 Port orientation

(Viewed from cover end of pump)

With no. 1 outlet opposite inlet

AA – No. 2 outlet 135° CCW from inlet

AB – No. 2 outlet 45° CCW from inlet

AC – No. 2 outlet 45° CW from inlet

AD – No. 2 outlet 135° CW from inlet

With no. 1 outlet 90° CCW from inlet

BA – No. 2 outlet 135° CCW from inlet

BB – No. 2 outlet 45° CCW from inlet

BC – No. 2 outlet 45° CW from inlet

BD – No. 2 outlet 135° CW from inlet

With no. 1 outlet inline with inlet

CA – No. 2 outlet 135° CCW from inlet

CB – No. 2 outlet 45° CCW from inlet

CC – No. 2 outlet 45° CW from inlet

CD – No. 2 outlet 135° CW from inlet

With no. 1 outlet 90° CW from inlet

DA – No. 2 outlet 135° CCW from inlet

DB – No. 2 outlet 45° CCW from inlet

DC – No. 2 outlet 45° CW from inlet

DD – No. 2 outlet 135° CW from inlet

11 Design

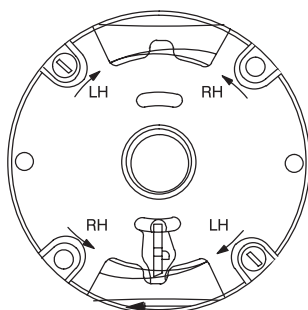
12 Rotation

(Viewed from shaft end of pump)

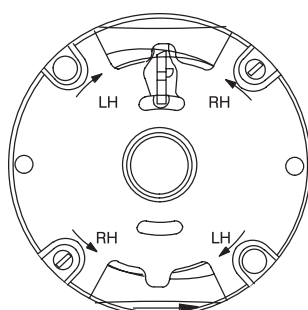
L – Left hand for counterclockwise

R – Right hand for clockwise

Sharp Edges of Vane Must Lead in Direction of Rotation



Cover End Cartridge
R. H. Rotation



Shaft End Cartridge
R. H. Rotation

NOTE

Standard right hand shaft rotation cartridges shown.
Reverse for left hand rotation.

NOTE

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

NOTE

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 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