

Vane Pumps

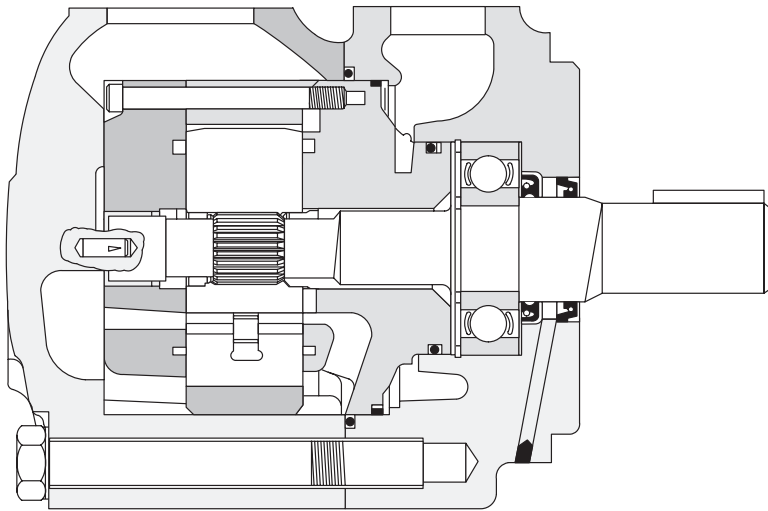
ENGINEERING
TOMORROW



Quiet Intra-Vane Type Pump

35V**A-*(*)*-22(L)-28*

AX444070656968en-000101



Note

Seals must be completely wetted at time of assembly with an SAE 10W motor oil of "SE" quality or an industrial hydraulic oil equivalent. Assemble seal with lip toward the bearing.

Note

Individual cartridge parts are not interchangeable with similar parts of the previous design. Complete cartridges are interchangeable with the previous design.

Model	Cover
35V***-22*-*280	429134
35V***-22*-*	234248

594329 Identification Plate

11173 Bolt
(4 req'd)
Oil and Torque
to 150 ± 10lb. ft.

Torque
to 105 ±
5 lb. ft.

●▲419674 Sealing Ring
(Install in Body before installation
of Cartridge Kit)

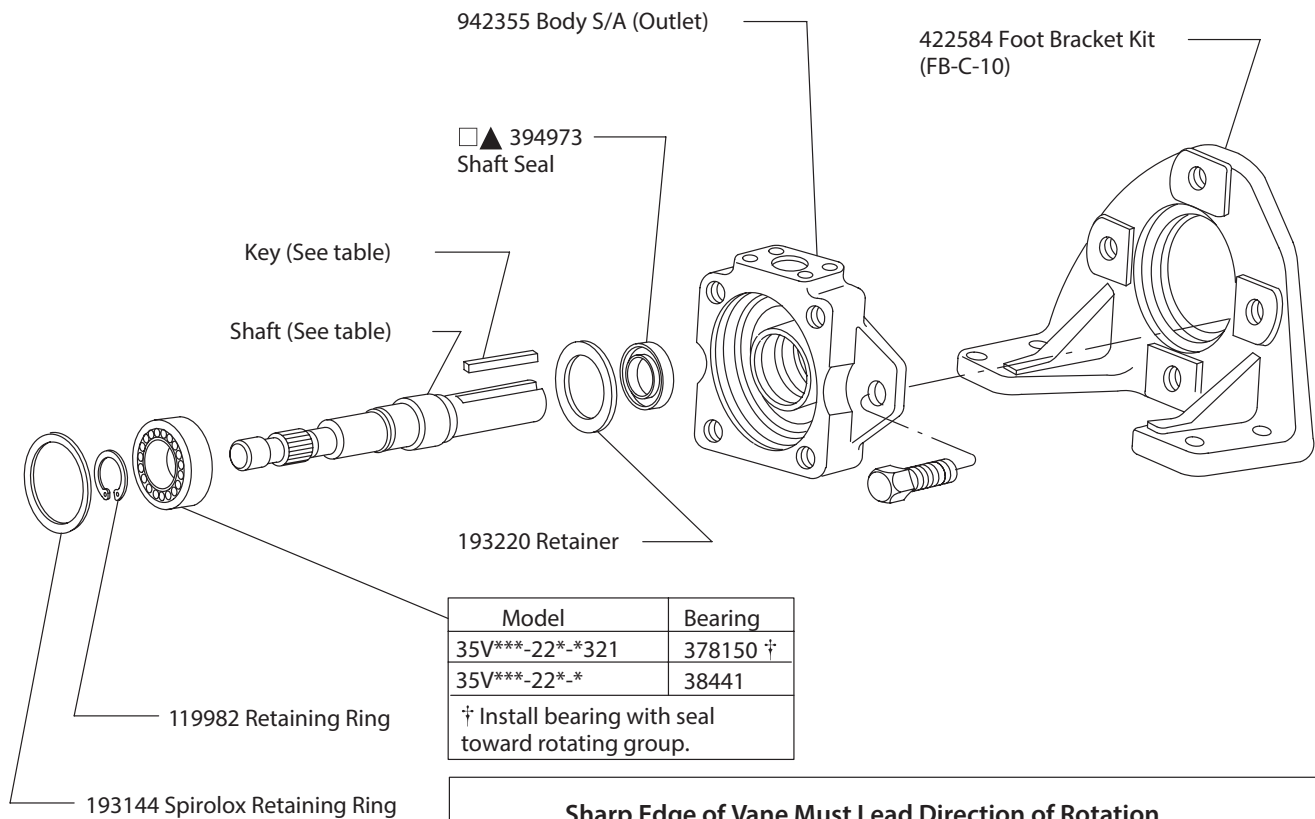
●▲154101 "O" Ring

●▲154084 "O" Ring

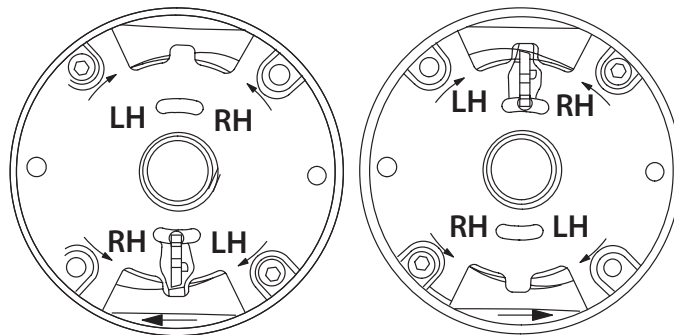
●▲263717
Back-up Ring

Capacity (USGPM)	Screw (2 Req'd)	Pin (2 Req'd)	Inlet Plate S/A	Rotor	Vane Kit	Ring	Outlet Plate	Cartridge ■ Kit	F3 Cartridge ■ Kit
Included in Cartridge Kit									
35V25A-**-22-28*	289475	280031	576265	575478	941019	576210	575479	578311	584306
35V30A-**-22-28*						576212		578312	584307
35V35A-**-22-28*						576214		578313	584308
35V38A-**-22-28*						575476		578314	584309

Shaft		Key	Type
No.	Part		
1	233624	88678	Straight Keyed Standard
86	392669	393536	Straight Heavy Duty
292N	860077	472287	Straight Keyed Rectangular



Sharp Edge of Vane Must Lead Direction of Rotation



Cover End
L.H. Rotation

Cover End
R.H. Rotation

To reverse cartridge kit rotation, remove the two (2) 289475 screws, and reverse location of the inlet plate S/A and outlet plate. Reinstall the two (2) screws hand tight. Use pump cover to align all sections of the cartridge. Remove cover carefully and torque screws to 105 ± 5 lb. ft.

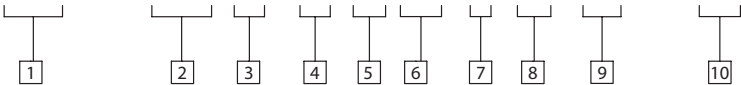
● Included in Cartridge Kit

▲ Included in 922851 Seal Kit

F3 Equivalent Seal Kit 919262

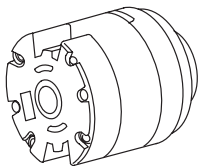
Model Code

(F3) - 35V ** A F *** * 22 (*) - ***



1 Seal Material F3 - Viton® seals Viton is a registered trademark of E.I. DuPont	5 Mounting 282 - SAE 2-bolt mounting 283 - Foot mounting	8 Design
2 Model Series 35V - Vane Pump	6 Shaft Type 1 - Straight with square key (standard) 86 - Straight with square key heavy duty 292N - Straight with rectangular key	9 Rotation (Viewed from shaft end) L - Left hand (CCW rotation) Omitted - Right hand rotation
3 SAE Rated Capacity (Rating at 1200 RPM - 100 PSI) (See inside for capacities)	7 Port Positions (See Chart below)	10 Special Suffix 280 - Ductile iron body cover 321 - Special bearing and shaft seal
4 Port Connections A -SAE 4-bolt flange		

Model	Inlet Cover Positions (Viewed from Cover End)
35V**A-***A-22(L)	Opposite outlet port
35V**A-***B-22(L)	90° Clockwise from outlet
35V**A-***C-22(L)	In-line with outlet
35V**A-***D-22(L)	90° Counterclockwise from outlet



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. Ext. 578311-L.

For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 20/18/15 or cleaner. Selections from Danfoss OF P, OFR, and OFRS series are recommended.

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