Service Data

## $\text{Vickers}^{\text{\tiny{\circledR}}}$

# **Vane Pumps**

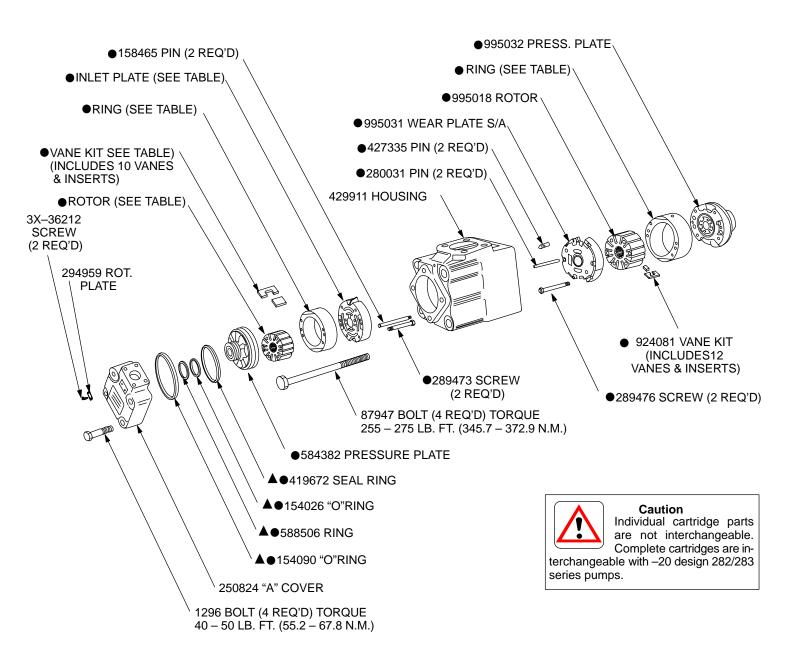


## **Double Vane Pump**

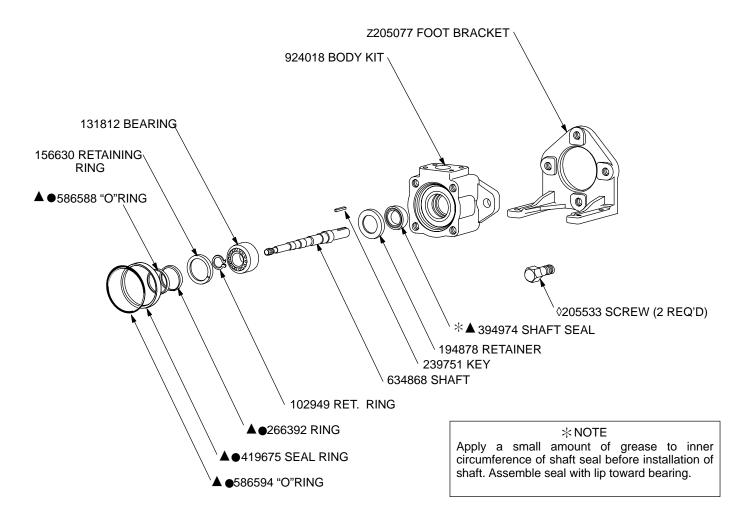
4520VSH 42 A 5 F 412 \*\* 10



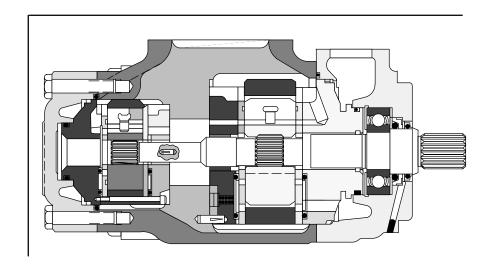
CAPACITY (GPM) COVER END PUMP	●ROTOR	● VANE KIT	●RING	●INLET PLATE	●CARTRIDGE KIT
5	402690	922741	333624	584383	585471
8	403539	922743	875509	584384	875510



- INCLUDED IN CARTRIDGE KIT
- ▲ INCLUDED IN SEAL KIT 875838
- ♦ INCLUDED IN FB-C-10/12



CAPACITY (GPM) SHAFT END PUMP	●RING	●CARTRIDGE KIT
42	581679	995013
50	581680	995014
60	578904	995015



## MODEL CODE BREAKDOWN

#### **4520 VSH 42**

1 2 3 4 5 6 7 8 9 10

1 Series (4520 Double Pump)

2 Intra-Vane Pump (VSH Series)

3 US GPM Capacity (Shaft End Pump)

SAE Rating 1200 RPM-100 PSI (7 Bar) 42 - 42 GPM 60 - 60 GPM

50 - 50 GPM

4 SAE Port Connections Code Inlet Outlet #1 Outlet # 2 4-Bolt Flg. 4-Bolt Flg. 4-Bolt Flg. Ε 4-Bolt Flg. 4-Bolt Flg. SAE ST. Thd.

5 **US GPM Capacity** 

(Cover End Pump)

SAE Rating 1200 RPM-100 PSI (7 Bar) 5 - 5 GPM 8 - 8 GPM

6 Mounting

F-FootOmit - Flange 7 Shaft Type

412 - STR. Key

Outlet Port Positions

(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 – 45° 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 – 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 – 45° 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 – 45° CW From Inlet

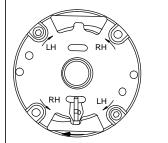
9 Design

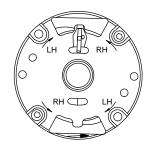
10 Shaft Rotation

(Viewed From Shaft End)

L - Left Hand (CCW Rotation) Omit - Right Hand (CW Rotation)

### 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.

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.

For satisfactory service life of these components, use full flow filtration to provide fluid which meets ISO cleanliness code 18/15 or cleaner. Selections from OFP, OFR, and OFRS filter series are recommended.