

Service Data

**Vickers®**

# Vane Pumps

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## Quiet Intra-Vane Double Pump

4520V\*\*\*\*\*-\*\*\*-20(L)-28\*



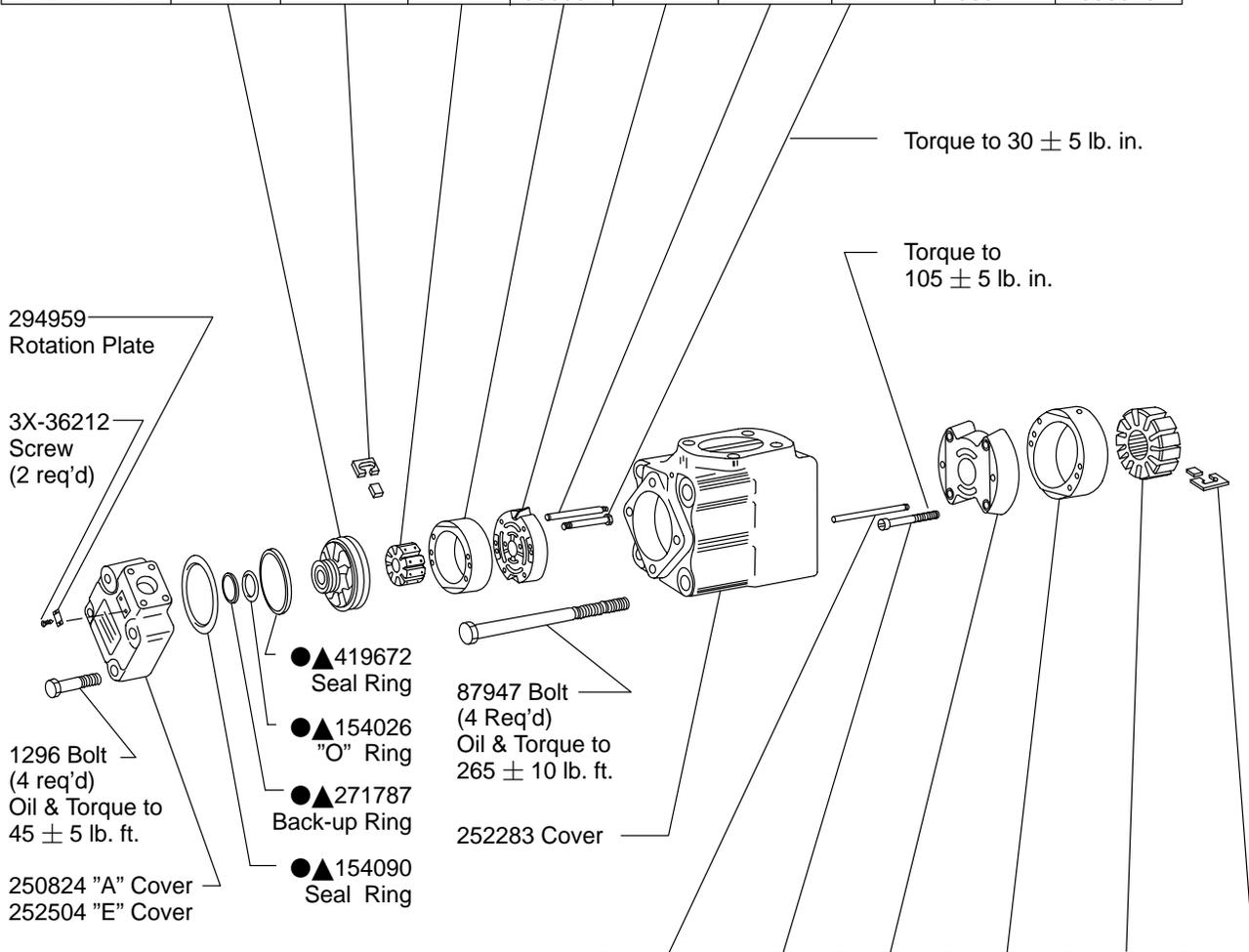
Revised 10/01/89

I-3182-S

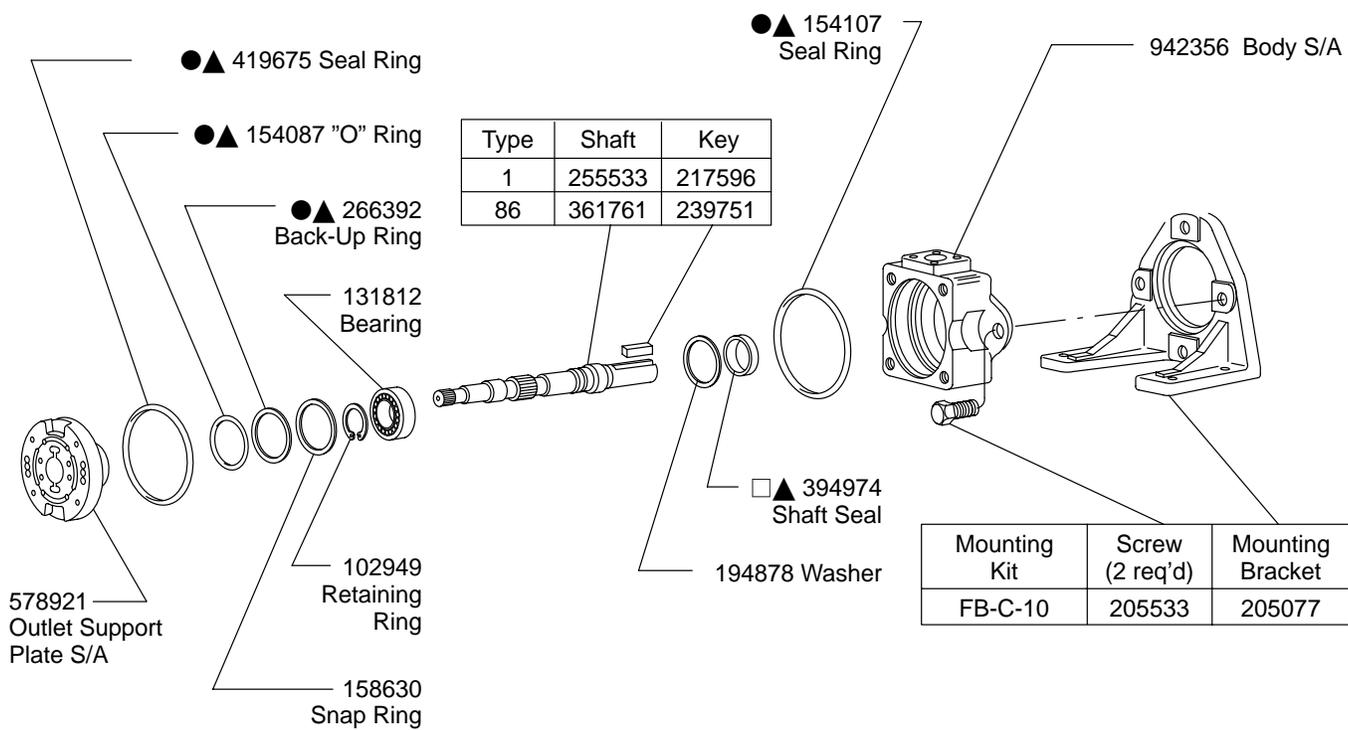
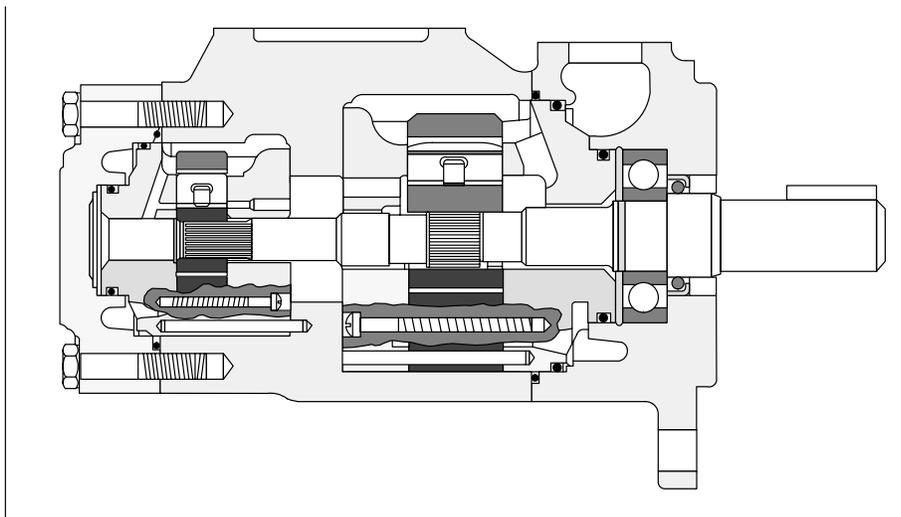
□ **Note**

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

Capacity Cover End Pump (USGPM)	Outlet Support Plate	Vane Kit (10 Vanes & Inserts)	Rotor	Ring	Inlet Support Plate	Pin (2 req'd)	Screw (2 req'd)	Cartridge Kit	F3 Cartridge Kit
These parts are included in cartridge kit									
4520V**2	584382	922741	402690	388683	584383	158465	289473	585478	588573
4520V**5				333624				585471	588574
4520V**8				333625				585473	588575
4520V**11		922743	403539	333626	585475			588576	
4520V**12				353901	585476			588577	
4520V**14				353902	585477			588578	



Cartridge Kit	F3 Cartridge Kit	Capacity Shaft End Pump (GPM)	Pin (2 req'd)	Screw (2 req'd)	Inlet Plate S/A	Ring	Rotor	Vane Kit (12 Vanes & Inserts)
These parts are included in cartridge kit								
581663	584312	4520V42	220888	289476	578903	581679	578900	941049
582572	586331	4520V45				582570		
581664	584313	4520V50				581680		
580919	584314	4520V60				578904		



▲ Service all units with F3 Seal Kit 919616

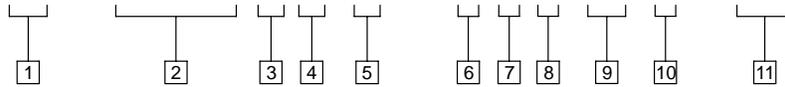
See Parts Drawing I-3963-S for Port Flange data

▲ Included in 922863 seal kit

● Also included in cartridge kit

# Model Code

**(F3) - 4520V \* \* (\*) - \* \* \* 20 (\*) - 28\***



**1 Seal Material**

**F3** - Viton®

*Viton is a registered trademark of E.I. DuPont*

**2 Model Series**

**4520V** - Vane Pump

**3 Capacity - Shaft end pump**

(Rating at 1200 RPM - 100 PSI)  
(See inside for capacities.)

**4 Port Connections**

**A** - SAE 4 bolt flange  
**E** - SAE Std. thread at #2 outlet port

**5 Capacity - Cover end pump**

(Rating at 1200 RPM - 100 PSI)  
(See inside for capacities.)

**6 Shaft Type**

**1** - Straight with square key (standard)  
**86** - Straight with square key  
(heavy duty)

**7 #1 Outlet Port Position**

**8 #2 Outlet Port Position**

**9 Design**

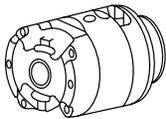
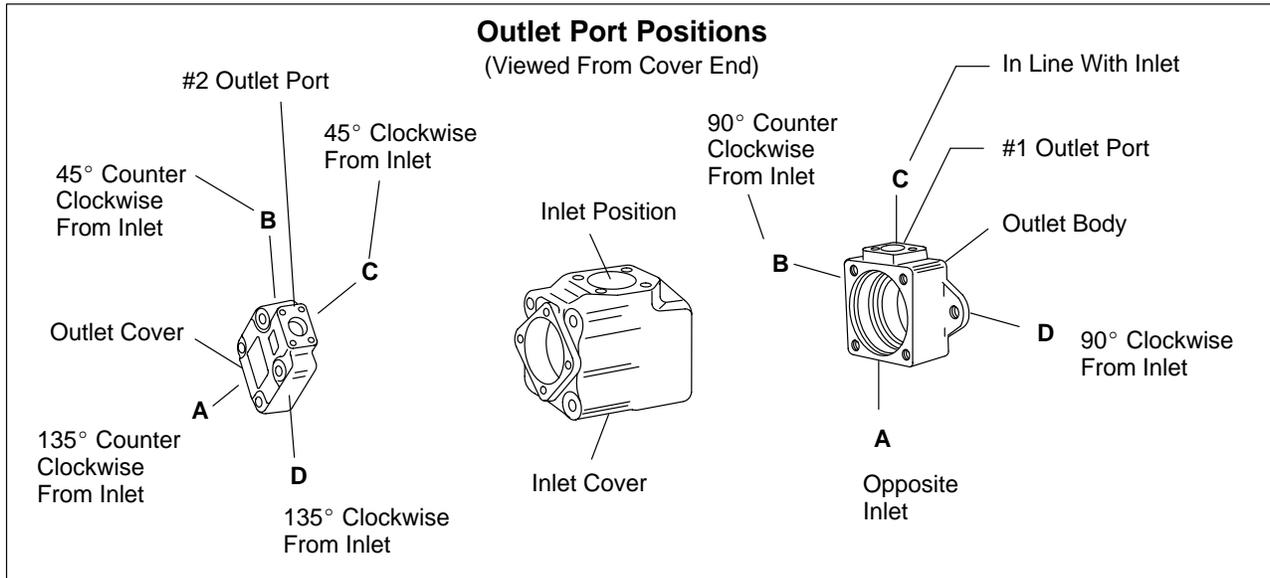
**10 Rotation**

(Viewed from shaft end)

**L** - Left hand (CCW rotation)  
**Omitted** - Right hand rotation

**11 Mounting**

**282** - SAE 2-bolt mounting  
**283** - Foot mounting



### 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, 581663-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 Eaton OFP, OFR, and OFRS series are recommended.

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