

Service Data

Vickers®

# Vane Pumps

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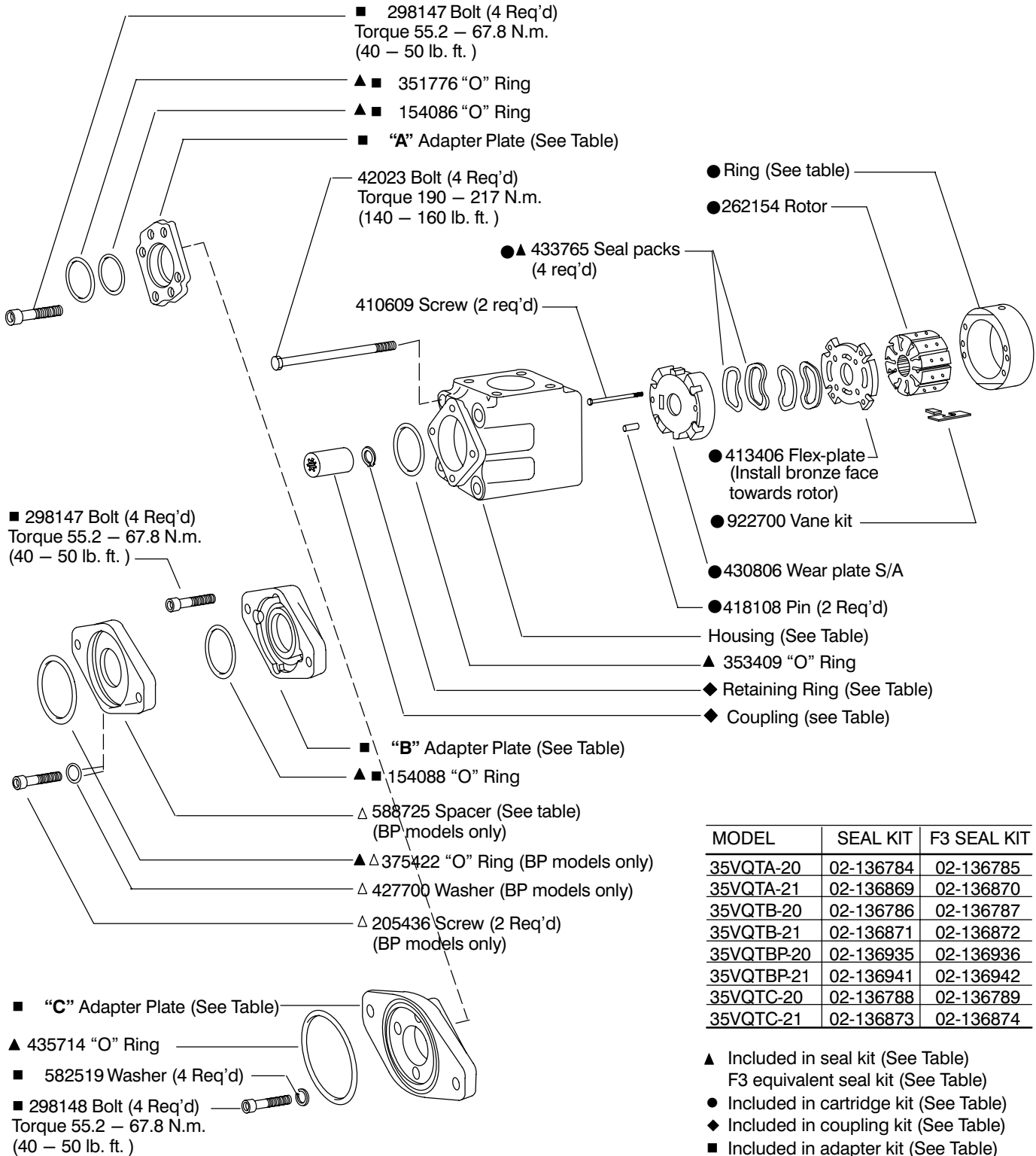
## Thru—Drive Vane Type Pump

(F3)—35VQT\*(M)—\*\*A(M)2—\*\*—\*—20/21—\*

MODEL	ADAPTER PLATE	ADAPTER KIT	SPACER KIT	RETAINING RING	COUPLING	COUPLING KIT
VQTA	584936	941296	—	223172	426770	02-136810
VQTB	584922	941297	02-136817	83003 (1)	584924	02-136813
VQTBP				83003 (2)		02-136814
VQTC	581833	941298	—	237807	584940	02-136815

**NOTE**

FOR BP MODELS AN ADAPTER KIT AND SPACER KIT IS REQUIRED.

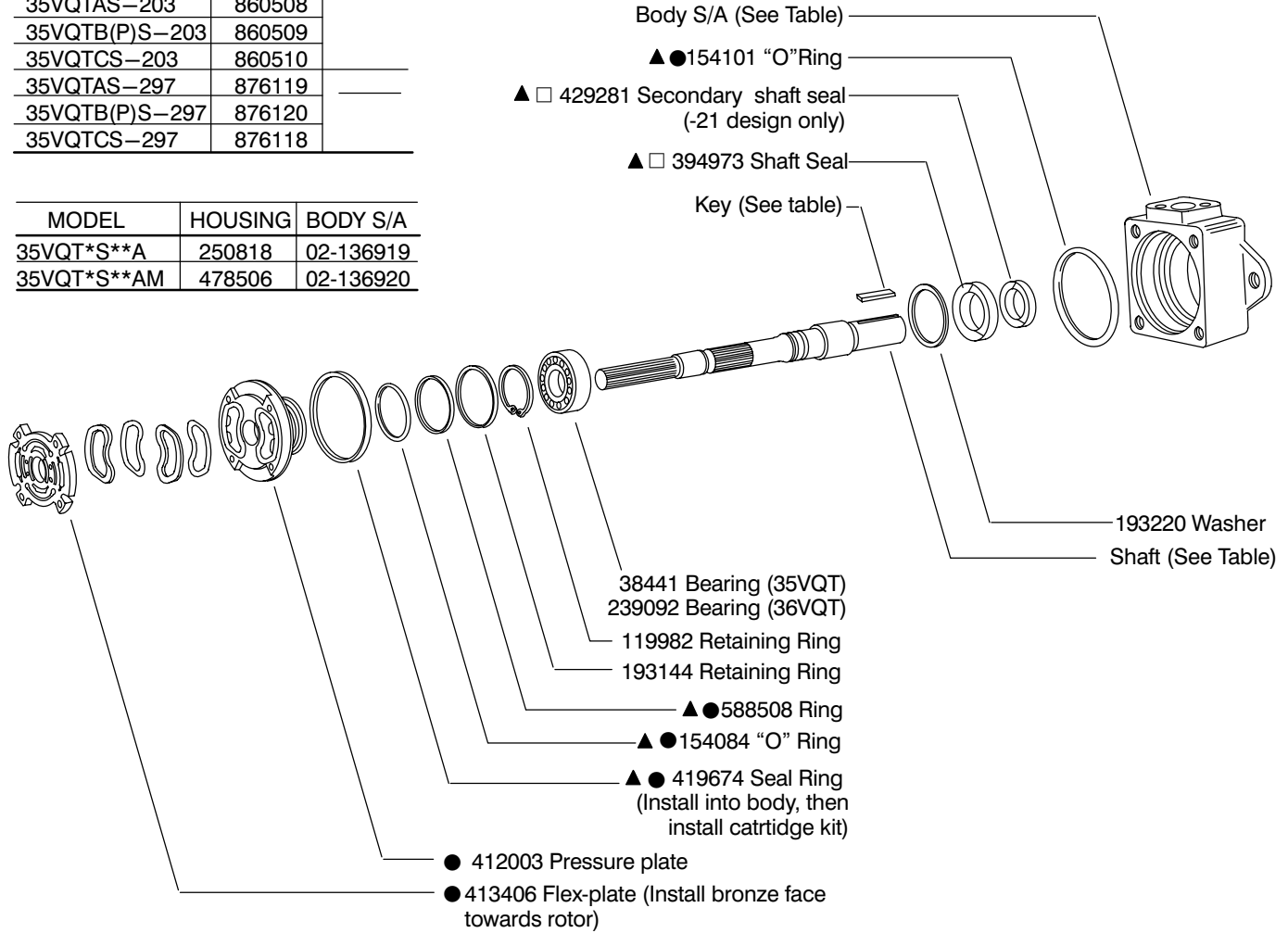


MODEL	SEAL KIT	F3 SEAL KIT
35VQTA-20	02-136784	02-136785
35VQTA-21	02-136869	02-136870
35VQTB-20	02-136786	02-136787
35VQTB-21	02-136871	02-136872
35VQTBP-20	02-136935	02-136936
35VQTBP-21	02-136941	02-136942
35VQTC-20	02-136788	02-136789
35VQTC-21	02-136873	02-136874

- ▲ Included in seal kit (See Table)  
F3 equivalent seal kit (See Table)
- Included in cartridge kit (See Table)
- ◆ Included in coupling kit (See Table)
- Included in adapter kit (See Table)
- △ Included in spacer kit (BP models only)  
Parts prefixed with symbols available only in kits

MODEL	SHAFT	KEY
35VQTAS-202	876128	393536
35VQTB(P)S-202	876129	
35VQTCS-202	876130	
35VQTAS-203	860508	
35VQTB(P)S-203	860509	
35VQTCS-203	860510	
35VQTAS-297	876119	—
35VQTB(P)S-297	876120	
35VQTCS-297	876118	

MODEL	HOUSING	BODY S/A
35VQT*S**A	250818	02-136919
35VQT*S**AM	478506	02-136920

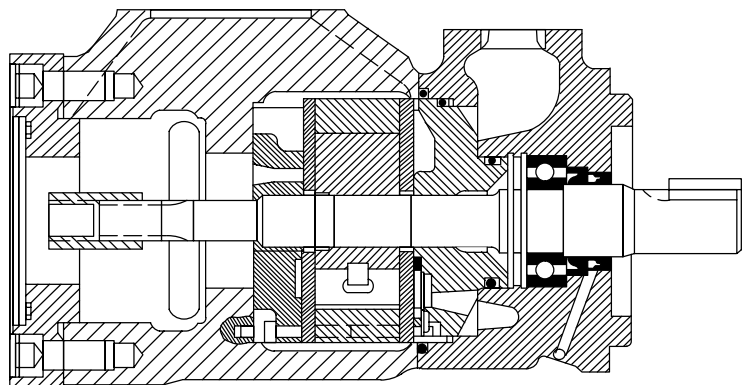


MODEL	RING	● CART KIT	F3 CART KIT
35VQT25	319396	413421	421583
35VQT30	319397	413422	421584
35VQT35	319398	413418	421585
35VQT38	319399	413419	421586

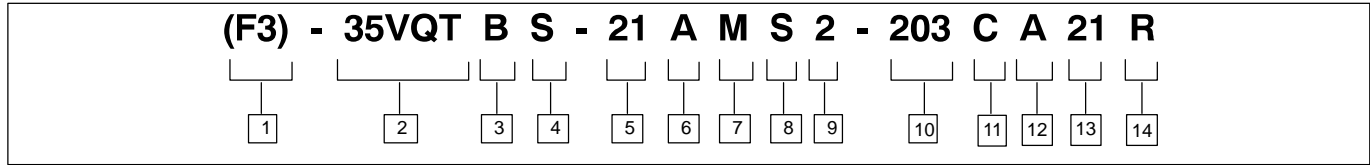
□ Assemble seal with spring loaded sealing member towards bearing. Seals to be completely wetted with oil prior to assembly.

**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. OFF, OFR, and OFRS series filters are recommended.



# Model Code



**1 Viton seals**

Omit – Standard seals

**2 Intravane pump series-Thru drive**

**35VQT** – Standard bearing  
**36VQT** – Heavy duty bearing

**3 Thru-drive connection mounting adapter**

Code	SAE Designation	
	J744C	J744Oct83
A	A	82-2
B	B	101-2
BP	Special mounting with spacer for Vickers PVE19/21	
C	C	127-2

**4 Front mounting flange**

Model series	SAE Designation	
	J744C	J744Oct83
3*VQT	C	127-2

**5 Geometric displacement**

Code - SAE rating (USgpm) at 1200 rpm, 6.9 bar (100 psi)

Frame Size	Code	cm <sup>3</sup> /r	in <sup>3</sup> /r
<b>3*VQT</b>	25	81	4.94
	30	97	5.91
	35	112	6.83
	38	121	7.37

**6 Port connections**

**A** – SAE 4 - bolt flange

**7 Metric threads on port connection**

(Omit for inch threads.)

**8 Double shaft seal**

**S** – Double shaft seal  
**Blank** – Single shaft seal

**9 Thru-drive coupling**

**2** – SAE splined coupling included with pump

**10 Shaft**

**202** – Straight key  
**203** – Straight key  
**297** – Splined

**11 Outlet positions**

(Viewed from adapter end of pump)

**A** – Opposite inlet port  
**B** – 90° CCW from inlet  
**C** – In line with inlet  
**D** – 90° CW from inlet

**12 Adapter mounting orientation**

(Viewed from adapter end of pump)

Code	A adapter	B or C adapter
<b>A</b> –	Rotated 45° CW with respect to pump mtg. flg.	In line with pump mtg. flg.
<b>B</b> –	Rotated 45° CCW with respect to pump mtg. flg.	Rotated 90° with respect to pump mtg. flg.

**13 Design**

–20 design single shaft seal  
 –21 design double shaft seal

**14 Rotation**

(Viewed from shaft end of pump)

**L** – Left hand (counterclockwise)  
**R** – Right hand (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**

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

