

Service Data

Vickers®

# Vane Pumps

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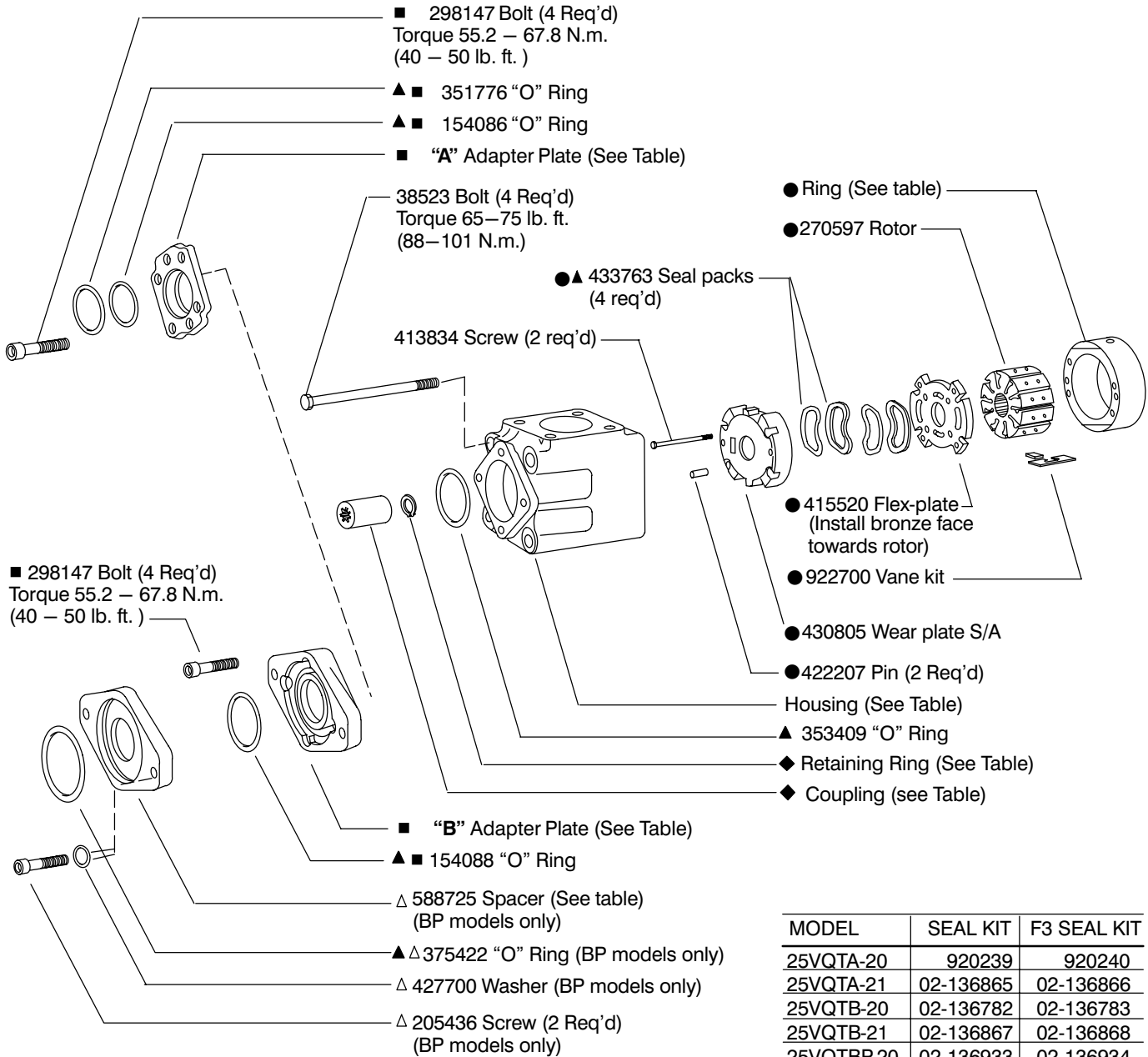
## Thru—Drive Vane Type Pump

(F3)—25VQT\*(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		89447 (1)	584924	02-136813
VQTBP			02-136817	89447 (2)	452865	02-136812

**NOTE**

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

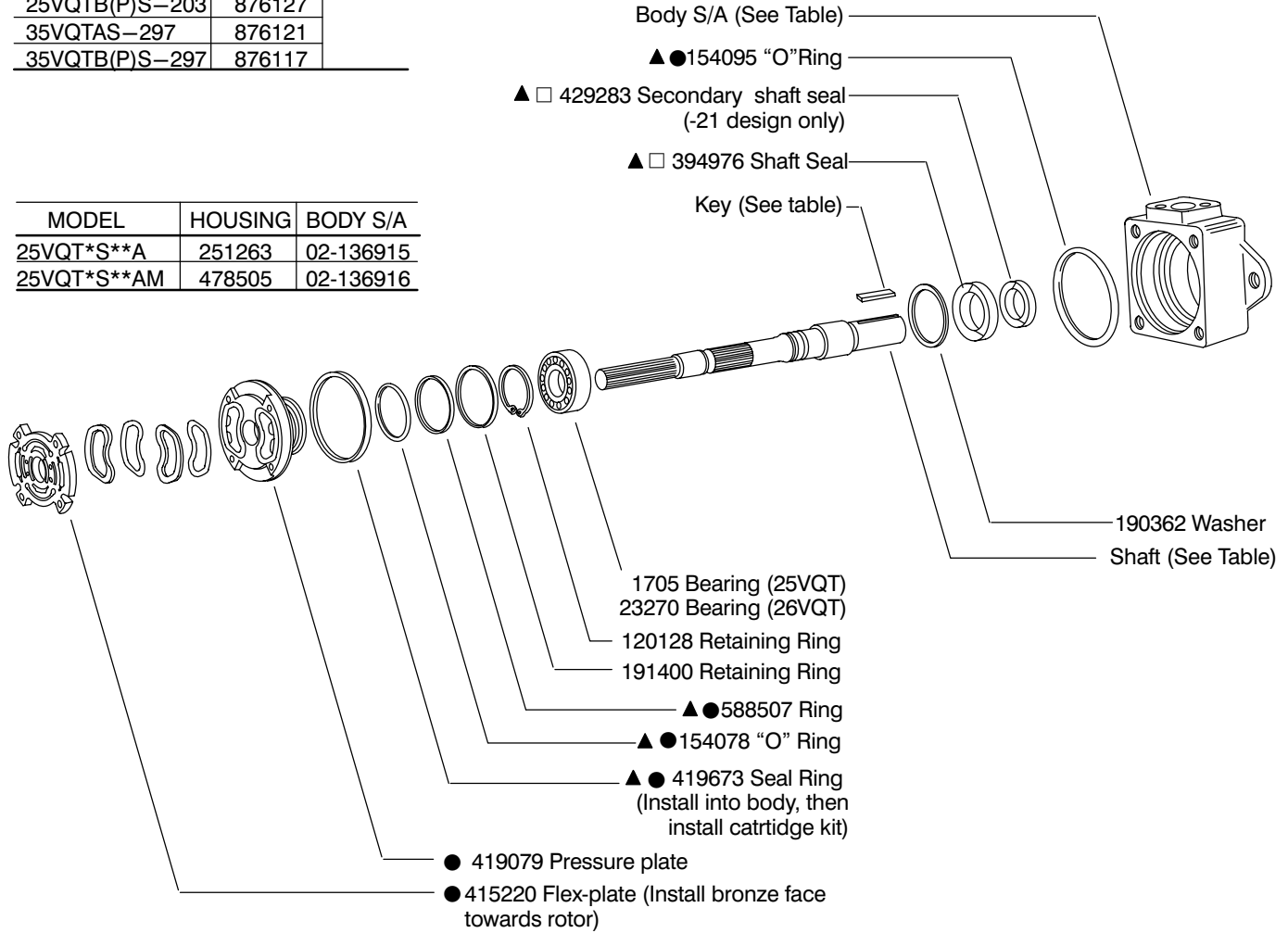


MODEL	SEAL KIT	F3 SEAL KIT
25VQTA-20	920239	920240
25VQTA-21	02-136865	02-136866
25VQTB-20	02-136782	02-136783
25VQTB-21	02-136867	02-136868
25VQTBP-20	02-136933	02-136934
25VQTBP-21	02-136939	02-136940

- ▲ 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
25VQTAS-202	876124	3418
25VQTB(P)S-202	876125	
25VQTAS-203	876126	
25VQTB(P)S-203	876127	
35VQTAS-297	876121	
35VQTB(P)S-297	876117	

MODEL	HOUSING	BODY S/A
25VQT*S**A	251263	02-136915
25VQT*S**AM	478505	02-136916

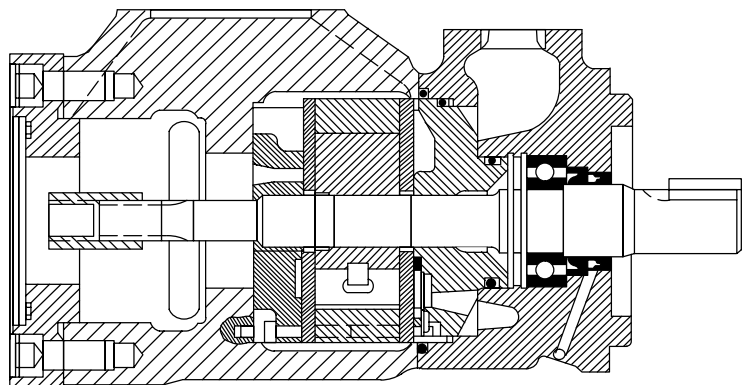


MODEL	RING	● CART KIT	F3 CART KIT
25VQT12	326984	416439	421570
25VQT14	326985	416440	421571
25VQT17	326986	416441	421572
25VQT21	326988	416442	421574

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

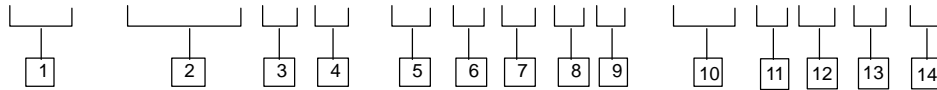
**NOTE**

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

**(F3) - 25VQT B S - 21 A M S 2 - 203 C A 21 R**



**1 Viton seals**

Omit – Standard seals

**2 Intravane pump series-Thru drive**

25VQT – Standard bearing  
26VQT – 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	

**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
2*VQT	12	40	2.47
	14	45	2.78
	17	55	3.39
	21	67	4.13

**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
A –	Rotated 45° CW with respect to pump mtg. flg.	In line with pump mtg. flg.
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.

