Service Data

 $\textbf{Vickers}^{\texttt{R}}$

Vane Pumps

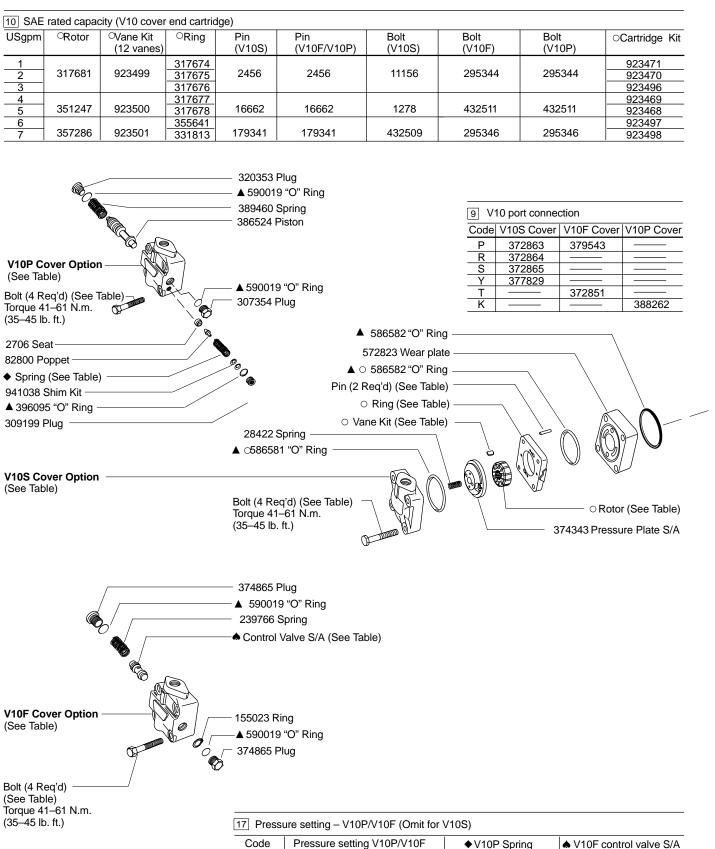


Vane Type Triple Pump

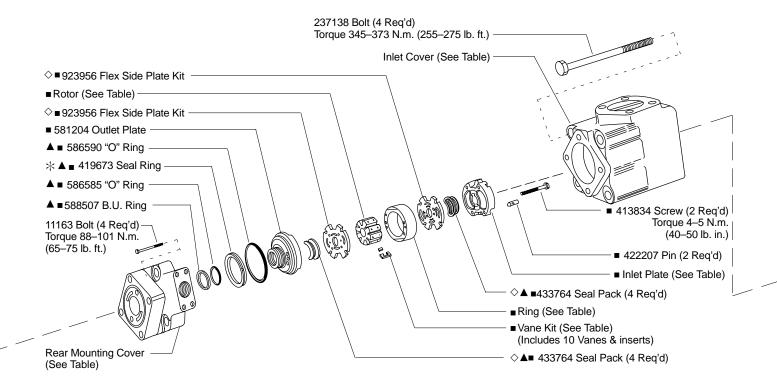
(F3)-4525VQSV10*-****--***--20*



Released 08-01-95



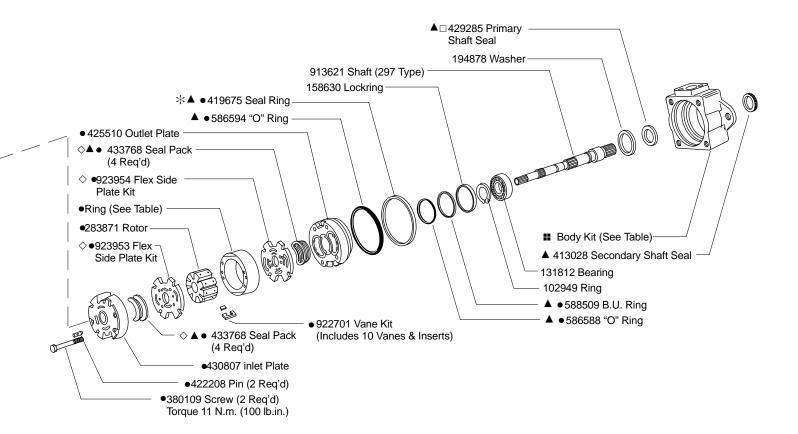
Code	Pressure setting V10P/V10F	♦V10P Spring	♦ V10F control valve S/A
A	250 psi	252886	229613
В	500 psi	2280	233018
С	750 psi		232794
D	1000 psi	2282	232795
E	1250 psi		232796
F	1500 psi		232797
G	1750 psi	2281	232798
H	2000 psi		232799
J	2250 psi		233019
K	2500 psi		233020



8 SAE rated capacity (**25 VQ center cartridge)						
■USgpm	■ Ring	Inlet Plate	Rotor	■ Vane Kit	F3 Cart. Kit	
12	326984				581851	
14	326985	419080		922710	581852	
17	326986		270597		581853	
19	326987		210001		581854	
21	326988				581855	

8 SAE rated capacity (**25 VQ center cartridge)

- Included in 45** VQ shaft end cartridge kit.
- Included in **25 VQ center cartridge kit.
- Included in V10 cover end cartridge kit.
- ▲ Included in 02–315623 seal kit. (Kit contains F3 components & both shaft seals.)
- Included in flex side plate kit; bronze face of plate must be installed toward the rotor. Kit also contains four seal packs.
- Assemble seal with spring loaded sealing member towards bearing. Seals to be completely wetted with oil prior to assembly.
- * Install 419675 & 419673 sealing ring into body, then install cartridge kit.



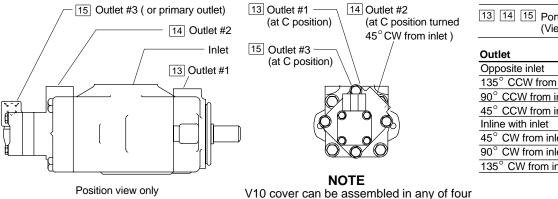
6 SAE rated capacity (45**VQ shaft end cartridge)					
●USgpm	● Ring	 F3 Cart. Kit 			
42	297510	419511			
47	297718	421954			
50	297502	419510			

7 Port connections					
Connection Type	Body Kit	Inlet Cover	Rear Mounting Cover		
A – 4 Bolt Flange (Inch)	02-136923	370078	581863		
AM – 4 Bolt Flange (Metric)	02-136924	478508	995240		

II NOTE: Body kit includes body, ball, and plug. (Ball and plug not shown)

Model Code

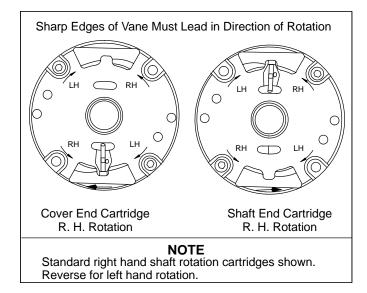
(F3) - 4525V	QSV10 * - * * * * * - * * *	* * * * * - 20 *	
		3]14]15]16]17] 18] 19	
1 Special seals	9 V10 port connections 14 Port orientation (Outlet #2)		
F3 – Vition "O"Rings and shaft seals	V10S standard covers and outlet # 3 Code	(Viewed from cover end of pump; refer to table on next page)	
 Pump series designation 45**VQ – Shaft end pump **25VQ – Center pump 	S – .750–16 Str. thd. P – ${}^{1}/{}_{2}$ " – NPT thd. Y – .875–14 Str. thd. R – 1.062–12 Str. thd.	15 Port orientation (Outlet #3 or primary outlet) (Viewed from cover end of pump; refer to table on next page)	
 Body mounting flange S – SAE mounting per J–744 101–2 	V10F flow/relief control cover Code Outlet # 3 Tank port	16 Controlled flow rate, V10F & V10P (Omit for standard cover)	
Pump series designation V10 cover end pump	$T750-16$ Str. thd .750-16 Str. thd. $P750-16$ Str. thd. $\frac{1}{2}$ " - NPT thd.	Code Code 3 – 3 USgpm 6 – 6 USgpm 4 – 4 USgpm 7 – 7 USgpm	
 5 V10 pump cover options S – Standard cover F – Flow control and relief cover P – Priority valve and relief cover 	V10P priority control covers Primary Secondary Tank port port port Str. thd Code Str. thd Str. thd.	5 – 5 USgpm 17 Relief valve pressure setting, V10F & V10P (Omit for standard cover)	
6 SAE rated capacity (VQ shaft – end cartridge) Code Code	K5625-18 .750-16 .5625 - 18 10 SAE rated capacity (V10 cover end cartridge) Code	Code Code A - 250 psi F - 1500 psi B - 500 psi G - 1750 psi C - 750 psi H - 2000 psi D - 1000 psi J - 2250 psi E - 1250 psi K - 2500 psi	
42 – 42 USgpm 57 – 57 USgpm 47 – 47 USgpm 60 – 60 USgpm 50 – 50 USgpm 50 – 50 USgpm	1 – 1 USgpm 5 – 5 USgpm 2 – 2 USgpm 6 – 6 USgpm 3 – 3 USgpm 7 – 7 USgpm 4 – 4 USgpm 7 – 7 USgpm	18 Design	
 7 VQ port connections (inlet & outlet #1 & #2) A - 4 bolt flange (Inch threads) AM - 4 bolt flange (Metric threads) 	11 Shaft seal Blank – Single seal S – Double seal	 Rotation (Viewed from shaft end of pump) L – Left hand for counterclockwise R – Right hand for clockwise 	
8 SAE rated capacity (VQ center cartridge) Code Code	12 Shaft type 297 – All series		
12 – 12 USgpm 19 – 19 USgpm 14 – 14 USgpm 21 – 21 USgpm 17 – 17 USgpm	13 Port orientation (Outlet #1) (Viewed from cover end of pump; refer to table on next page)		



positions refer to drawing M-2005-S.

13 14	15	Port	orientation code
		(Viev	ved from cover end of pump)

Outlet	13 #1	14 #2	15 #3
Opposite inlet	A		Α
135° CCW from inlet		A	
90° CCW from inlet	В		В
45° CCW from inlet		В	
Inline with inlet	С		С
45° CW from inlet		С	
90° CW from inlet	D		D
135° CW from inlet		D	



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.