

Vickers[®] by Danfoss
Vane Pumps

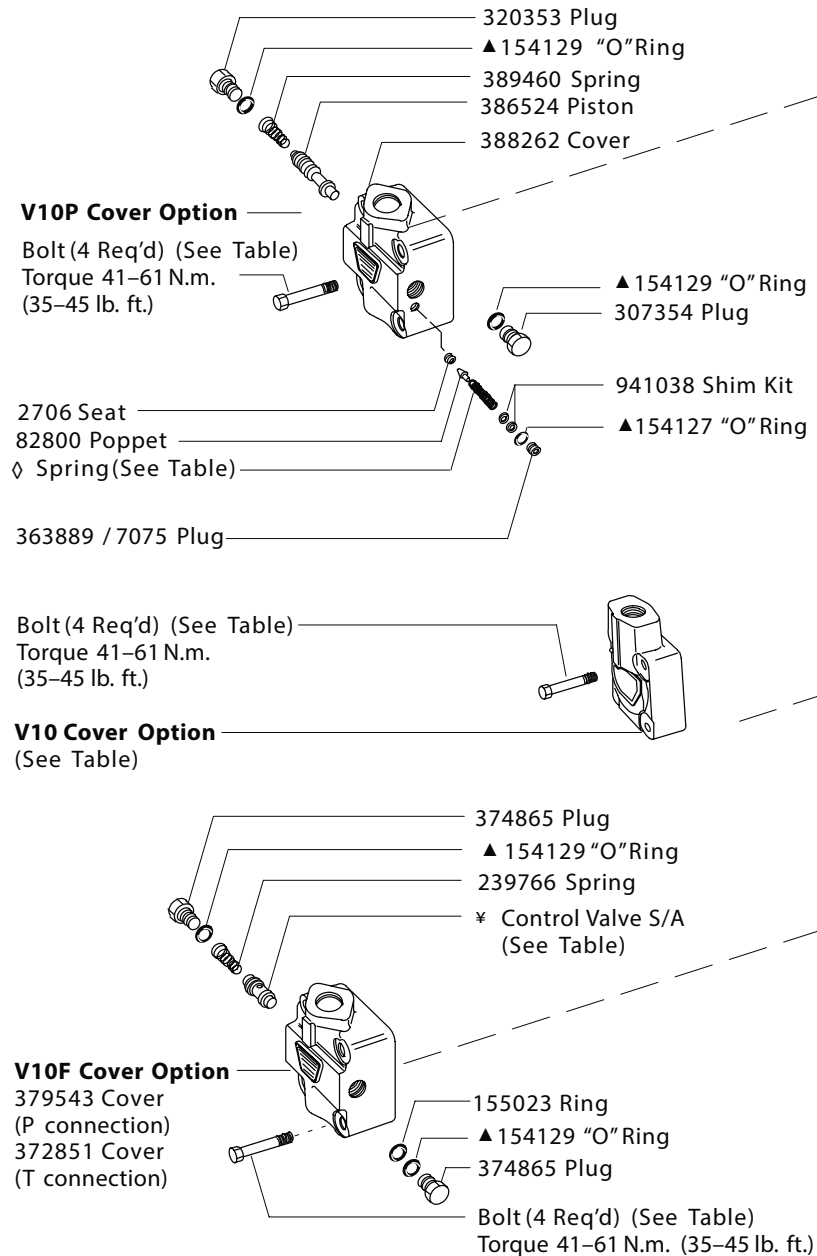


Vane Type Single Pump

(F3)-V10(*) Series -10 & 20 Designs

SAE rated capacity (V10/F/P cartridge kits)

Usgpm	‡Rotor	‡Vane Kit	‡Ring	Pin (V10)	Pin (V10F/V10P)	Bolt (V10)	Bolt (V10F)	Bolt (V10P)	‡Cart. Kit
1	317681	923499	317674	2460	231042	11156	432509	295344	923471
2			317675						923470
3			317676						923496
4	351247	923500	317677	39640	2456	1278	295344	432511	923469
5			317678						923468
6	357286	923501	355641	16662	351963		432511	295346	923497
7			331813						923498



Cover port connections

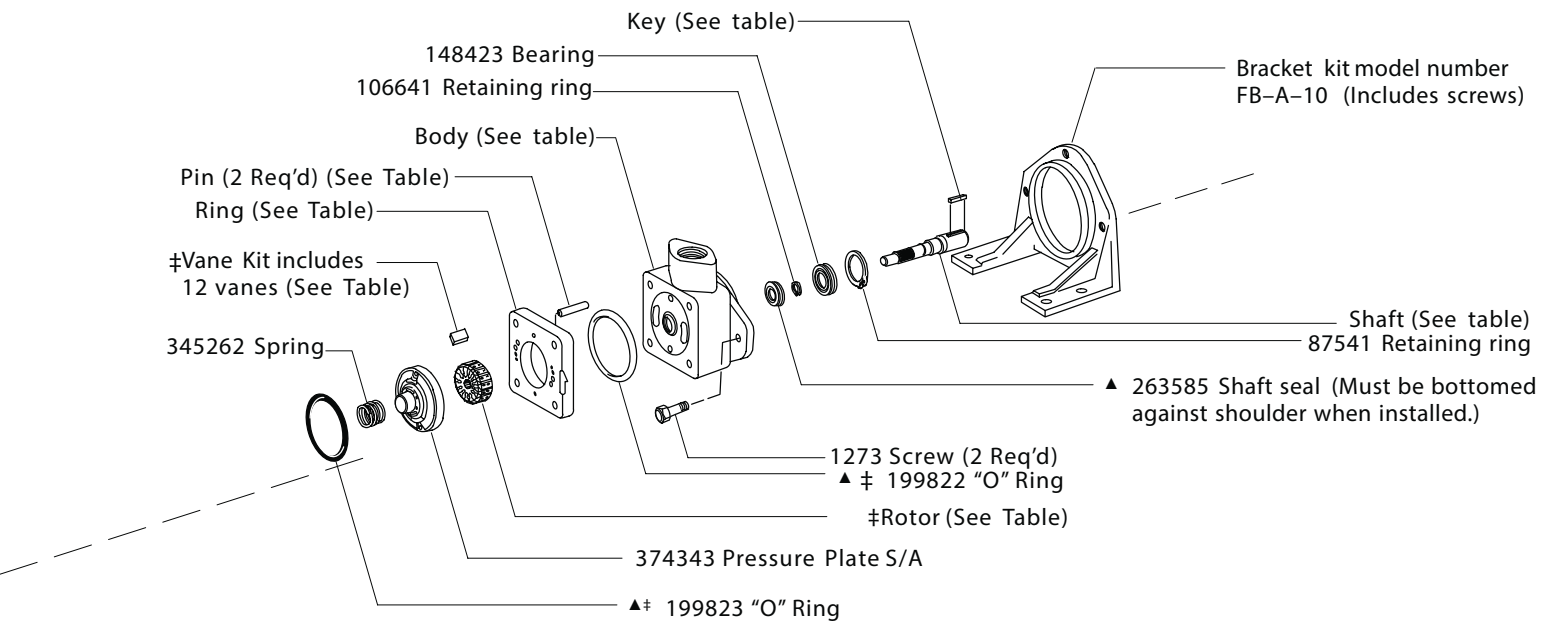
Code	V10 cover	V10F cover	V10P cover
P	372863	379543	—
R	372864	—	—
S	372865	—	—
Y	377829	—	—
T	—	372851	—
K	—	—	388262

Pressure setting–V10P/V10F (Omit for V10)

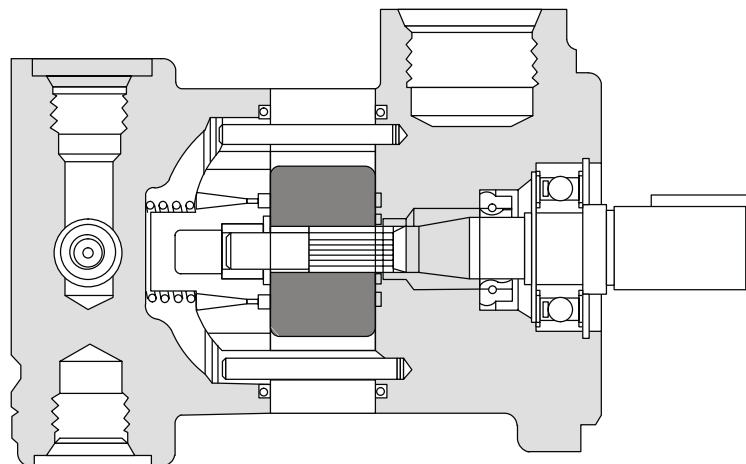
Code	Pressure setting V10P/V10F	◇ V10P Spring	✧ V10F control S/A
A	250 PSI	252886	229613
B	500 PSI	2280	233018
C	750 PSI		232794
D	1000 PSI	2282	232795
E	1250 PSI		232796
F	1500 PSI		232797
G	1750 PSI	2281	232798
H	2000 PSI		232799
J	2250 PSI		233019
K	2500 PSI		233020

- ‡ Included in V10 cartridge kit.
▲ Included in seal kit 923548
F3 equivalent seal kit 919772

Model	Body
V10-***-20	574164
V10-***-20	352699
V10-***-20	317668
V10-***-10	370468

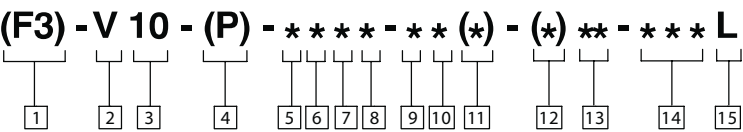


Model	Shaft	Key	Nut	Shaft type
V10-****-1	374338	142843		Straight
V10-****-3	374340	1605	8948	Theaded
V10-****-4	378959	1606	8948	Theaded
V10-****-6	382250	1609		Straight
V10-****-11	374339			Splined
V10-****-12	375480			Splined
V10-****-27	380281			Tang
V10-****-34	375485			Theaded
V10-****-38	387481			Splined



Typical Cutaway View

Model Code



1 Special seals

F3 – Special “O”Rings & seals for mineral oil & fire resistant fluid

2 Vane Pump

3 Series 10

4 Pump cover options

F – Flow control cover
P – Priority valve cover
Omitted –Standard cover

5 Mounting

1 –2 Bolt flange (SAE “ A” size)
2 –Foot bracket at 12 O’ Clock (Viewed from shaft end)
23 –Foot bracket at 3 O’ Clock
26 –Foot bracket at 6 O’ Clock
29 –Foot bracket at 9 O’ Clock

6 Inlet port connections

F –1.156 DIS. port
H –1 ” O.D. tube connection
K –1 ⁵/₁₆–12 UN 2B thread
P –1 ” NPT thread
S –1 ⁵/₁₆–12 straight thread
T –1 ³/₁₆–12 straight thread

7 SAE rated ring capacity USGPM (1200 RPM –100 PSI)

1 – 1 USgpm **5** – 5 USgpm
2 – 2 USgpm **6** – 6 USgpm
3 – 3 USgpm **7** – 7 USgpm
4 – 4 USgpm

8 Outlet port connections

V10 standard cover

K –1 ⁵/₁₆–12 UN 2B thread
P –1 ” NPT thread
S –1 ⁵/₁₆–12 straight thread
T –1 ³/₁₆–12 straight thread

V10F Flow control cover

Pressure

P – ³/₄–16 straight thread
T – ³/₄–16 straight thread

Tank

P – ¹/₂” NPT thread
T – ³/₄–16 straight thread

V10P Priority valve cover

Primary outlet

K – ⁹/₁₆–18 straight thread

Secondary outlet

K – ³/₄–16 straight thread

Tank

K – ⁹/₁₆–18 straight thread

9 Shaft types

1 –Straight –keyed
3 –Threaded
4 –Threaded
6 –Straight stub– keyed
11 – Spline–9 tooth
12 –Spline– 13 tooth
27 –Tang
34 –Threaded
38 –Spline– 13 tooth

10 Pressure port positions (Viewed from cover end)

A –Opposite inlet
B –90° CCW from inlet
C –Inline with inlet
D –90° CCW from inlet

11 Flow rate in USGPM through orifice in cover

1 –1 USGPM (V10P)
2 –2 USGPM (V10F)

12 Pressure setting ,V10F & V10P (Omit for standard cover)

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

13 Design & Modification

14 Special feature suffix

15 Rotation (Viewed from shaft end of pump)

L – Left hand for counterclockwise

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