Vane Type Single Pump
(F3)-V10(*) Series -10 & 20 Designs

120 inch Pad Oil Pump
V10 1P2P 1A20
SAE rated capacity (V10/F/P cartridge kits)

<table>
<thead>
<tr>
<th>USgpm</th>
<th>Rotor</th>
<th>Vane Kit</th>
<th>Ring</th>
<th>Pin (V10)</th>
<th>Pin (V10F/V10P)</th>
<th>Bolt (V10)</th>
<th>Bolt (V10F)</th>
<th>Bolt (V10P)</th>
<th>Cart. Kit</th>
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**V10P Cover Option**

Bolt (4 Req’d) (See Table)
Torque 41–61 N.m.
(35–45 lb. ft.)

2706 Seat
82800 Poppet
◆ Spring (See Table)

36389 / 7075 Plug

**V10 Cover Option**
(See Table)

374865 Plug
◆ 154129 “O” Ring
239766 Spring
◆ Control Valve S/A
(See Table)

379543 Cover
(P connection)
377829 Cover
(T connection)

Bolt (4 Req’d) (See Table)
Torque 41–61 N.m.
(35–45 lb. ft.)

**Pressure setting – V10P/V10F** (Omit for V10)

<table>
<thead>
<tr>
<th>Code</th>
<th>Pressure setting V10P/V10F</th>
<th>V10P Spring</th>
<th>V10F control S/A</th>
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<tbody>
<tr>
<td>A</td>
<td>250 PSI</td>
<td>252886</td>
<td>229613</td>
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<tr>
<td>B</td>
<td>500 PSI</td>
<td>2280</td>
<td>233018</td>
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<td>C</td>
<td>750 PSI</td>
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<td>232794</td>
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<td>D</td>
<td>1000 PSI</td>
<td>2282</td>
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<td>E</td>
<td>1250 PSI</td>
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<td>F</td>
<td>1500 PSI</td>
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<td>G</td>
<td>1750 PSI</td>
<td>2281</td>
<td>232798</td>
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<td>H</td>
<td>2000 PSI</td>
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<td>J</td>
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<td>K</td>
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</table>

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Vane Kit includes 12 vanes (See Table)

Ring (See Table)

Pin (2 Req’d) (See Table)

Vane Kit includes 12 vanes (See Table)

199822 "O" Ring

Ring/C0089/C0100

V10—****—20

106641 Retaining ring

Body (See Table)

Pin (2 Req’d) (See Table)

Vane Kit includes 12 vanes (See Table)

148423 Bearing

345262 Spring

374343 Pressure Plate S/A

Key (See table)

1273 Screw (2 Req’d)

199822 "O" Ring

Rotor (See Table)

263585 Shaft seal (Must be bottomed against shoulder when installed.)

Bracket kit model number FB–A–10 (Includes screws)

Typical Cutaway View

<table>
<thead>
<tr>
<th>Model</th>
<th>Body</th>
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<tbody>
<tr>
<td>V10—****—20</td>
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<td>V10—****—20</td>
<td>352699</td>
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<td>V10—****—20</td>
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<td>V10—****—10</td>
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<table>
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<tr>
<th>Model</th>
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<th>Nut</th>
<th>Shaft type</th>
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<td>374338</td>
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<td>V10—****—27</td>
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<td>Tang</td>
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<td>V10—****—34</td>
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<td>V10—****—38</td>
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<td>Splined</td>
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</table>
Model Code

(F3) - V 10 - (P) - *** - * (P) - *** L

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 – Primary 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
2 – 2 USgpm
3 – 3 USgpm
4 – 4 USgpm
5 – 5 USgpm
6 – 6 USgpm
7 – 7 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 – In line with inlet
D – 90° CW 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
B – 500 psi
C – 750 psi
D – 1000 psi
E – 1250 psi
F – 1500 psi
G – 1750 psi
H – 2000 psi
J – 2250 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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