Vane Type Single Pump

(F3)-V10(*) Series -10 & 20 Designs
SAE rated capacity (V10/F/P cartridge kits)

<table>
<thead>
<tr>
<th>USgpm</th>
<th>Rotor</th>
<th>Vane Kit</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>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>317681</td>
<td>923499</td>
<td>317674</td>
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Cover port connections

<table>
<thead>
<tr>
<th>Code</th>
<th>V10 cover</th>
<th>V10F cover</th>
<th>V10P cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>372863</td>
<td>379543</td>
<td></td>
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<tr>
<td>R</td>
<td>372864</td>
<td></td>
<td></td>
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<tr>
<td>S</td>
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<tr>
<td>Y</td>
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<tr>
<td>T</td>
<td>372851</td>
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<td></td>
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<tr>
<td>K</td>
<td>388262</td>
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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>
</tr>
</thead>
<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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<tr>
<td>C</td>
<td>750 PSI</td>
<td>2282</td>
<td>232794</td>
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<tr>
<td>D</td>
<td>1000 PSI</td>
<td>2282</td>
<td>232795</td>
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<tr>
<td>E</td>
<td>1250 PSI</td>
<td>2282</td>
<td>232796</td>
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<tr>
<td>F</td>
<td>1500 PSI</td>
<td>2281</td>
<td>232797</td>
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<td>G</td>
<td>1750 PSI</td>
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<td>232798</td>
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<td>H</td>
<td>2000 PSI</td>
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<td>232799</td>
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<td>J</td>
<td>2250 PSI</td>
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<td>233019</td>
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<td>K</td>
<td>2500 PSI</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

345262 Spring

148423 Bearing

106641 Retaining ring

Body (See table)

Pin (2 Req’d) (See Table)

Ring (See Table)

Vane Kit includes 12 vanes (See Table)

199822 "O" Ring

1273 Screw (2 Req’d)

Rotor (See Table)

374343 Pressure Plate S/A

199823 O Ring

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

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

Shaft (See table)

87541 Retaining ring

Typical Cutaway View

<table>
<thead>
<tr>
<th>Model</th>
<th>Shaft</th>
<th>Key</th>
<th>Nut</th>
<th>Shaft type</th>
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</thead>
<tbody>
<tr>
<td>V10–****–1</td>
<td>374338</td>
<td>142843</td>
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<td>Straight</td>
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<td>V10–****–3</td>
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<td>1605</td>
<td>8948</td>
<td>Theaded</td>
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<td>V10–****–4</td>
<td>378959</td>
<td>1606</td>
<td>8948</td>
<td>Theaded</td>
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<td>V10–****–6</td>
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<td>Straight</td>
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<td>V10–****–11</td>
<td>374339</td>
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<td>Splined</td>
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<tr>
<td>V10–****–12</td>
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<td>Splined</td>
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<td>V10–****–27</td>
<td>380281</td>
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<td>Tang</td>
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<td>V10–****–34</td>
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<td>V10–****–38</td>
<td>387481</td>
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<td>Splined</td>
</tr>
</tbody>
</table>
Model Code

(F3) - V 10 - (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 – 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
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 – 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
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