Standard Features

- Highly repeatable; plus or minus 0.0002 inches.
- Standard Work Supports may be bolted up or down to mount directly on fixture plates. They may also be installed through a hole in the fixture and locked in place using retaining collars for easy adjustment.
- Standard SAE porting is located in the base of the support for easy access to both the clamp and vent ports (bronze filter installed before shipping).
- Design features insure VektorFlo® work supports last longer, stand up to harsh environments and abuse better than other models without these features.
- Proprietary wiper and seal designs reduce contamination and drag for longer lasting, better performing work supports.
- Special corrosion resistant plungers and sleeves reduce the tendency to stick.
- Special large diameter plungers and sleeves provide greater rigidity.
- Cartridge mount work supports available in all styles for installation into customer machined cavities.
NEW!

Replace older models with higher capacity cartridges or complete with bases!

Plungers stay retracted during part loading. Hydraulic pressure advances the plunger exerting only spring force as it makes contact with the part. Hydraulic pressure then automatically sequences, “freezing” the plunger, to properly support the part.

- Available in 1800 or 3500 lbs capacity.
- Order with base or cartridge only.
- Ventless configuration and built-in wipers protect the plunger movement from chips and debris.
- Up to 3X capacity of competitor’s version.
- Uses Vektek’s BHC technology to guard against corrosion.
- O-Ring face seal design makes machining cavities easier.

Standard SAE porting and alternate O-Ring manifold face seal is located in the base of the support for bolt down installation. The base can be removed for direct cartridge mounting.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Direct Replacement for Older Model</th>
<th>Support Capacity (lbs)*</th>
<th>Mounting Style***</th>
<th>Contact Force (lbs)</th>
<th>Stroke (in.)</th>
<th>Base Dimensions (in.)</th>
<th>Retracted Height (in.)</th>
<th>Oil Capacity** (cu. in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0706-10</td>
<td>10-0706-04</td>
<td>1,800</td>
<td>Cartridge SAE/Manifold</td>
<td>1-6</td>
<td>0.25</td>
<td>N/A</td>
<td>0.90 X 1.31 X 1.75</td>
<td>2.14</td>
</tr>
<tr>
<td>10-0806-10</td>
<td>10-0806-05</td>
<td>1,800</td>
<td>Cartridge SAE/Manifold</td>
<td>3-10</td>
<td>0.25</td>
<td>N/A</td>
<td>1.25 X 1.50 X 2.31</td>
<td>3.25</td>
</tr>
</tbody>
</table>

**Support capacities are listed at 5,000 psi maximum pressure. Support capacities for other pressures are shown in the fluid advance High Capacity and Part Present Sensing load capacity chart.

**Restrict flow rate to a maximum of 130 cu. in./minute.

***For cartridge mount models, see cavity dimensions drawings in this catalog section.

****For complete dimensions, see fluid advance work supports (Section B)

NOTE: The maximum system back-pressure a fluid advance work support can overcome is 10 psi. Returning back-pressure greater than 10 psi may cause slow or failed retraction.
NEW!

**Now up to 3X competitive capacity at 5,000 PSI!**

Plungers stay retracted during part loading. Hydraulic pressure advances the plunger exerting only spring force as it makes contact with the part. Hydraulic pressure then automatically sequences, “freezing” the plunger, to properly support the part.

- Available in 1,800 or 3,500 lbs capacity.
- Order with base or cartridge only.
- Ventless configuration and built in wipers protect the plunger movement from chips and debris.
- Four bolt base is compatible with Vektek in port flow control and in port sequence valves.
- Uses Vektek’s BHC technology to guard against corrosion.
- O-Ring face seal design makes machining cavities easier.
- Long stroke models coming soon, call for availability.

Standard SAE porting and alternate O-Ring manifold face seal is located in the base of the support for bolt-down installation. The base can be removed for direct cartridge mounting.

### Work Supports

**High Capacity, Fluid Advance**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Support Capacity (lbs)*</th>
<th>Mounting Style***</th>
<th>Contact Force (lbs)</th>
<th>Stroke (in.)</th>
<th>Base Dimensions (in.)</th>
<th>Retracted Height (in.)</th>
<th>Oil Capacity (cu. in.)**</th>
<th>Port X Depth for Optional In-Port Valves****</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0706-10</td>
<td>1,800</td>
<td>Cartridge</td>
<td>1-6</td>
<td>0.25</td>
<td>N/A</td>
<td>2.14</td>
<td>0.06</td>
<td>N/A</td>
</tr>
<tr>
<td>10-0806-20</td>
<td></td>
<td>SAE/Manifold</td>
<td></td>
<td></td>
<td>1.19 x 1.31 x 1.31</td>
<td>2.79</td>
<td>0.08</td>
<td>SAE 4 x 0.58</td>
</tr>
<tr>
<td>10-0708-10</td>
<td>3,500</td>
<td>Cartridge</td>
<td>3-10</td>
<td>0.25</td>
<td>N/A</td>
<td>2.85</td>
<td>0.12</td>
<td>N/A</td>
</tr>
<tr>
<td>10-0808-20</td>
<td></td>
<td>SAE/Manifold</td>
<td></td>
<td></td>
<td>1.50 x 1.63 x 1.63</td>
<td>3.50</td>
<td>0.15</td>
<td>SAE 4 x 0.58</td>
</tr>
</tbody>
</table>

* Support capacities are listed at 5,000 psi maximum pressure. Support capacities for other pressures are shown in the fluid advance High Capacity and Part Present Sensing load capacity chart.
** Restrict flow rate to a maximum of 130 cu. in./minute.
*** For cartridge mount models, see cavity dimensions drawings in this catalog section.
**** In-Port Valves require the use of manifold mount ports.

NOTE: The maximum system back-pressure a fluid advance work support can overcome is 10 psi. Returning back-pressure greater than 10 psi may cause slow or failed retraction.
For proper sealing, mating surface must be flat within 0.003 in with a maximum 63 µ in. $R_a$ surface finish.

Cartridge Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0806-20</td>
<td>1-16</td>
<td>2.79</td>
<td>0.25</td>
<td>1.19</td>
<td>1.19</td>
<td>0.21</td>
<td>0.88</td>
<td>0.56</td>
<td>0.14</td>
<td>1.31</td>
<td>1.31</td>
<td>1.00</td>
</tr>
<tr>
<td>10-0808-20</td>
<td>1 1/4-16</td>
<td>3.50</td>
<td>0.25</td>
<td>1.44</td>
<td>1.50</td>
<td>0.36</td>
<td>1.13</td>
<td>0.75</td>
<td>0.19</td>
<td>1.63</td>
<td>1.63</td>
<td>1.25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No.</th>
<th>N</th>
<th>P</th>
<th>Q</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>V</th>
<th>W</th>
<th>X</th>
<th>Y</th>
<th>AA</th>
<th>AB</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0806-20</td>
<td>0.50</td>
<td>1.00</td>
<td>0.50</td>
<td>0.19</td>
<td>0.30</td>
<td>0.94</td>
<td>0.50</td>
<td>5/16-18 X .20 SAE 4</td>
<td>0.38</td>
<td>0.31</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>10-0808-20</td>
<td>0.63</td>
<td>1.25</td>
<td>0.63</td>
<td>0.22</td>
<td>0.38</td>
<td>1.19</td>
<td>0.62</td>
<td>7/16-14 X .25 SAE 4</td>
<td>0.38</td>
<td>0.34</td>
<td>0.31</td>
<td></td>
</tr>
</tbody>
</table>

Fluid Advance

<table>
<thead>
<tr>
<th>Model No.*</th>
<th>Model No.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,800 lb.</td>
<td>3,500 lb.</td>
</tr>
<tr>
<td>10-0706-10</td>
<td>10-0708-10</td>
</tr>
<tr>
<td>10-0806-10</td>
<td>10-0808-10</td>
</tr>
<tr>
<td>10-0806-20</td>
<td>10-0808-20</td>
</tr>
</tbody>
</table>

* Chart data for both High Capacity and Part Present Sensing models.
Fluid Advance High Capacity Cartridge Cavity Check List

☐ Confirm capacity of item selected.
☐ Note the sealing surface finish requirements.
☐ Minimum depth specification represents the nominal depth of the standard Vekekt base dimension.
☐ Confirm cavity drawing is appropriate for the model number used.
☐ Note specified thread depth when cutting threads.
☐ When using a bottoming tap tool, modifications may be required.
☐ When hand tapping threads, perpendicularity is essential.

Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>M</th>
<th>V</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartridge Mount, High Capacity Fluid Advance Work Support</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-0706-10</td>
<td>1-16</td>
<td>2.14</td>
<td>0.25</td>
<td>1.72</td>
<td>0.24</td>
<td>0.21</td>
<td>0.88</td>
<td>0.56</td>
<td>0.14</td>
<td>0.92</td>
<td>0.50</td>
<td>5/16-18 X .20</td>
</tr>
<tr>
<td>10-0708-10</td>
<td>1 1/4-16</td>
<td>2.85</td>
<td>0.25</td>
<td>2.29</td>
<td>0.33</td>
<td>0.36</td>
<td>1.13</td>
<td>0.75</td>
<td>0.19</td>
<td>1.17</td>
<td>0.62</td>
<td>7/16-14 X .25</td>
</tr>
</tbody>
</table>

VEKTEK FLUID ADVANCE 1800 lb. HIGH CAPACITY CARTRIDGE MOUNT WORK SUPPORT CAVITY DIMENSIONS

WORK SUPPORT CAVITY DIMENSIONS:
1800 lb. SINGLE ACTING
FLUID ADVANCE 10-0706-10
(TORQUE TO 35 ft-lb)

R.020 MAX

VEKTEK FLUID ADVANCE 3500 lb. HIGH CAPACITY CARTRIDGE MOUNT WORK SUPPORT CAVITY DIMENSIONS

WORK SUPPORT CAVITY DIMENSIONS:
3500 lb. SINGLE ACTING
FLUID ADVANCE 10-0708-10
(TORQUE TO 50 ft-lb)
NEW!

Confirm part is present and contacted even on as-cast surfaces!

Plungers stay retracted during part loading while air flow travels through the work support. Hydraulic pressure advances the plunger exerting only spring force as it makes contact with the part. This closes the integral air valve to indicate part is present and contacted. Hydraulic pressure then automatically sequences, "freezing" the plunger.

- Available in 1,800 or 3,500 lbs capacity.
- Order with four bolt base or cartridge only.
- Once support is locked, air sensing positively confirms both contact and part present.
- Use Vektek's Air Sensing Control Kit 50-8240-00 for easy setup.
- Four bolt base is compatible with in port flow control and in port sequence valves.
- Uses Vektek's BHC technology to guard against corrosion.
- O-Ring face seal design makes machining cavities easier.
- Max air operating pressure is 15 PSI.

Now with Part Present Sensing built in!!

Standard SAE porting and alternate O-Ring manifold face seal is located in the base of the support for bolt down installation. The base can be removed for direct cartridge mounting.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Support Capacity (lbs)*</th>
<th>Mounting Style***</th>
<th>Contact Force (lbs)</th>
<th>Stroke (in.)</th>
<th>Base Dimensions (in.)</th>
<th>Retracted Height (in.)</th>
<th>Oil Capacity (cu. in.)**</th>
<th>Port X Depth for Optional In-Port Valves****</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0706-10-PS</td>
<td>1,800</td>
<td>Cartridge</td>
<td>1-6</td>
<td>0.25</td>
<td>1.19 x 1.31 x 1.31</td>
<td>2.28</td>
<td>0.06</td>
<td>N/A</td>
</tr>
<tr>
<td>10-0806-20-PS</td>
<td></td>
<td>SAE/Manifold</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.08</td>
<td>SAE 4 x 0.58</td>
</tr>
<tr>
<td>10-0708-10-PS</td>
<td>3,500</td>
<td>Cartridge</td>
<td>3-10</td>
<td>0.25</td>
<td>1.50 x 1.63 x 1.63</td>
<td>3.04</td>
<td>0.12</td>
<td>N/A</td>
</tr>
<tr>
<td>10-0808-20-PS</td>
<td></td>
<td>SAE/Manifold</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.15</td>
<td>SAE 4 x 0.58</td>
</tr>
</tbody>
</table>

* Support capacities are listed at 5,000 psi maximum pressure. Support capacities for other pressures are shown in the fluid advance High Capacity and Part Present Sensing load capacity chart.

** Restrict flow rate to a maximum of 130 cu. in./minute.

*** For cartridge mount models, see cavity dimensions drawings in this catalog section.

**** In-Port Valves require the use of manifold mount ports.

NOTE: The maximum system back-pressure a fluid advance work support can overcome is 10 psi. Returning back-pressure greater than 10 psi may cause slow or failed retraction.
Work Supports

Part Present Sensing, High Capacity, Fluid Advance

Cartridge Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>P</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0806-20-PS</td>
<td>1.16</td>
<td>2.93</td>
<td>0.25</td>
<td>1.19</td>
<td>1.19</td>
<td>0.21</td>
<td>0.88</td>
<td>0.56</td>
<td>0.28</td>
<td>1.31</td>
<td>1.31</td>
<td>1.00</td>
<td>0.50</td>
<td>1.00</td>
<td>0.50</td>
</tr>
<tr>
<td>10-0808-20-PS</td>
<td>2.14</td>
<td>3.69</td>
<td>0.25</td>
<td>1.44</td>
<td>1.50</td>
<td>0.36</td>
<td>1.13</td>
<td>0.75</td>
<td>0.38</td>
<td>1.63</td>
<td>1.63</td>
<td>1.25</td>
<td>0.63</td>
<td>1.25</td>
<td>0.63</td>
</tr>
</tbody>
</table>

For proper sealing, mating surface must be flat within 0.003 in with a maximum 63 µ in. Rₐ surface finish.

PART PRESENT SENSING WORK SUPPORT AIR FLOW

Workpiece

POPPET OPEN & AIR VENTS UNDER CONTACT BOLT

OIL FEED HOLE

AIR FEED HOLE

Air Sensing Control Kit 50-8240-00
Fluid Advance Part Present Sensing Cartridge Mount Cavity Check List

- Confirm capacity of item selected.
- Note the sealing surface finish requirements.
- Minimum depth specification represents the nominal depth of the standard Vektek base dimension.
- Confirm cavity drawing is appropriate for the model number used.
- Note specified thread depth when cutting threads.
- When using a bottoming tap tool, modifications may be required.
- When hand tapping threads, perpendicularity is essential.

Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<th>M</th>
<th>V</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartridge Mount, High Capacity Fluid Advance Work Support</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-0706-10-PS</td>
<td>1-16</td>
<td>2.28</td>
<td>0.25</td>
<td>1.72</td>
<td>0.24</td>
<td>0.21</td>
<td>0.88</td>
<td>0.56</td>
<td>0.28</td>
<td>0.92</td>
<td>0.43</td>
<td>5/16-18 X 0.20</td>
</tr>
<tr>
<td>10-0708-10-PS</td>
<td>1 1/4-16</td>
<td>3.04</td>
<td>0.25</td>
<td>2.29</td>
<td>0.33</td>
<td>0.36</td>
<td>1.13</td>
<td>0.75</td>
<td>0.38</td>
<td>1.17</td>
<td>0.62</td>
<td>7/16-14 X 0.25</td>
</tr>
</tbody>
</table>

PART PRESENT SENSING WORK SUPPORT AIR FLOW

- Workpiece
- POPPET CLOSED & AIR PRESSURE BUILDS
- WORK SUPPORT ADVANCES
- OIL FEED HOLE
- AIR FEED HOLE
- POPPET OPEN & AIR VENTS UNDER CONTACT BOLT
VEKTEK FLUID ADVANCE 1,800 LBS PART PRESENT SENSING
HIGH CAPACITY CARTRIDGE MOUNT WORK SUPPORT CAVITY DIMENSIONS

WORK SUPPORT CAVITY DIMENSIONS:
1800 lb. SINGLE ACTING
FLUID ADVANCE 10-0706-10-PS
(TORQUE TO 35 ft-lb)

WORK SUPPORT CAVITY DIMENSIONS:
3500 lb. SINGLE ACTING
FLUID ADVANCE 10-0708-10-PS
(TORQUE TO 50 ft-lb)
Spring Advance

For Supporting Most Parts

- Available in four capacities from 1,000 to 12,500 lbs, these units adapt to support fragile parts, heavy parts or “hog out” applications.

- When using the 3-2-1 locating principles, you often need additional support for a 4th, 5th or even more areas on your part. A work support will give you “floating” locators which won’t interfere with your 3, 2 or 1 locators. Clamp over your locators then lock the supports.

- Spring extended plungers maintain contact with the part during loading, exerting only spring force against the part. When hydraulic pressure is applied the plunger freezes without exerting any additional force on the part.

Proprietary wiper and seal designs reduce contamination and drag for longer lasting, better performing Work Supports.

Stainless steel plunger and sleeve assemblies help guard against corrosion in most machining environments.

Precision fit plunger/sleeve assemblies allow VektorFlo® Work Supports to begin to lock at lower pressures and build support faster.

If spring advance supports are to be used in flood coolant environments (consider air advance) attach tubing to the vent port and route to clean, dry air to keep coolant from being drawn in and becoming sticky on internal surfaces.

Standard SAE porting and alternate O-Ring manifold face seal is located in the base of the support for bolt down installation. The base can be removed for direct cartridge mounting.

### Model No. 10-0506-10
- **Support Capacity**: 1,000 lbs
- **Mounting Style**: Cartridge
- **Contact Force**: 1-2 lbs
- **Stroke**: 0.25 in.
- **Base Dimensions**: 0.85 x 1.25 x 1.75 in.
- **Extended Height**: 1.87 in.
- **Oil Capacity**: 0.05 cu. in.

### Model No. 10-0506-11
- **Support Capacity**: 2,500 lbs
- **Mounting Style**: Cartridge
- **Contact Force**: 2-6 lbs
- **Stroke**: 0.38 in.
- **Base Dimensions**: 0.91 x 1.50 x 2.31 in.
- **Extended Height**: 2.44 in.
- **Oil Capacity**: 0.08 cu. in.

### Model No. 10-0506-12
- **Support Capacity**: 7,500 lbs
- **Mounting Style**: Cartridge
- **Contact Force**: 9-18 lbs
- **Stroke**: 0.50 in.
- **Base Dimensions**: 1.00 x 2.50 x 3.00 in.
- **Extended Height**: 4.38 in.
- **Oil Capacity**: 0.81 cu. in.

### Model No. 10-0509-06
- **Support Capacity**: 12,500 lbs
- **Mounting Style**: Cartridge
- **Contact Force**: 11-16 lbs
- **Stroke**: 0.75 in.
- **Base Dimensions**: 1.25 x 3.50 x 3.81 in.
- **Extended Height**: 5.25 in.
- **Oil Capacity**: 1.79 cu. in.

**Dimensions**

### Model No. 10-0506-11
- **Support Capacity**: 1,000 lbs
- **Mounting Style**: Cartridge
- **Contact Force**: 1-2 lbs
- **Stroke**: 0.25 in.
- **Base Dimensions**: 0.85 x 1.25 x 1.75 in.
- **Extended Height**: 1.87 in.
- **Oil Capacity**: 0.05 cu. in.

### Model No. 10-0506-12
- **Support Capacity**: 2,500 lbs
- **Mounting Style**: Cartridge
- **Contact Force**: 2-6 lbs
- **Stroke**: 0.38 in.
- **Base Dimensions**: 0.91 x 1.50 x 2.31 in.
- **Extended Height**: 2.44 in.
- **Oil Capacity**: 0.08 cu. in.

### Model No. 10-0506-08
- **Support Capacity**: 7,500 lbs
- **Mounting Style**: Cartridge
- **Contact Force**: 9-18 lbs
- **Stroke**: 0.50 in.
- **Base Dimensions**: 1.00 x 2.50 x 3.00 in.
- **Extended Height**: 4.38 in.
- **Oil Capacity**: 0.81 cu. in.

### Model No. 10-0520-07
- **Support Capacity**: 12,500 lbs
- **Mounting Style**: Cartridge
- **Contact Force**: 11-16 lbs
- **Stroke**: 0.75 in.
- **Base Dimensions**: 1.25 x 3.50 x 3.81 in.
- **Extended Height**: 5.25 in.
- **Oil Capacity**: 1.79 cu. in.
For proper sealing, mating surface must be flat within 0.003 in with a maximum 63 µ in. Ra surface finish.

### Work Supports

**Spring Advance**

<table>
<thead>
<tr>
<th>P</th>
<th>Q</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>V</th>
<th>W</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>AA</th>
<th>AB</th>
<th>AC</th>
<th>AD</th>
<th>AE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.75</td>
<td>0.69</td>
<td>1.20</td>
<td>0.51</td>
<td>0.22</td>
<td>SAE 2</td>
<td>0.33</td>
<td>SAE 2</td>
<td>0.33</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>2.31</td>
<td>0.94</td>
<td>1.66</td>
<td>0.72</td>
<td>0.28</td>
<td>SAE 4</td>
<td>0.43</td>
<td>SAE 4</td>
<td>0.43</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</tr>
<tr>
<td>3.00</td>
<td>1.25</td>
<td>2.41</td>
<td>1.03</td>
<td>0.28</td>
<td>SAE 4</td>
<td>0.63</td>
<td>SAE 4</td>
<td>0.63</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.13</td>
<td>0.16</td>
</tr>
<tr>
<td>3.81</td>
<td>1.75</td>
<td>3.22</td>
<td>1.44</td>
<td>0.34</td>
<td>SAE 4</td>
<td>0.94</td>
<td>SAE 4</td>
<td>0.94</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.63</td>
<td>0.16</td>
</tr>
</tbody>
</table>

Spring Advance Work Supports, spring lifts plunger, part weight depresses plunger, hydraulic pressure locks in place.
Work Supports

Spring Advance Cartridge

Cavity Check List

- Confirm capacity of item selected.
- Note the sealing surface finish requirements.
- Minimum depth specification represents the nominal depth of the standard Vektek base dimension.
- Confirm cavity drawing is appropriate for the model number used.
- Note specified thread depth when cutting threads.
- When using a bottoming tap tool, modifications may be required.
- When hand tapping threads, perpendicularity is essential.
- The “fluid” passage is located on the outer diameter and “vent” passage is in the center.

---

Cartridge Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0506-10</td>
<td>1.16</td>
<td>1.87</td>
<td>0.25</td>
<td>1.59</td>
<td>0.27</td>
<td>0.21</td>
<td>0.87</td>
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<td>5/16-18 X 0.27</td>
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<tr>
<td>10-0509-06</td>
<td>1.5/16-16</td>
<td>2.43</td>
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<td>1.96</td>
<td>0.34</td>
<td>0.25</td>
<td>1.12</td>
<td>0.81</td>
<td>3/8-16 X 0.46</td>
<td>1.22</td>
</tr>
</tbody>
</table>
# Work Supports

## Air Advance

### For Supporting Fragile Parts Or Use In Harsh Environments

- Available in four capacities from 1,000 to 12,500 lbs.
- For harsh environments (where contaminants such as aluminum or cast iron fines and corrosive or tacky coolants are present), we suggest running a constant "air-spring" to keep the plunger extended and the problem contaminants out. (You should observe air bubbles escaping around the plunger when used in this manner.)
- Normally retracted plungers provide additional clearance for part loading. Advance them with air pressure, exerting ONLY the force needed to "kiss" the part, then "freeze" the plunger in place hydraulically.
- Heavier end effectors may be used with air advance supports because of their additional air powered lifting/contact force.

Special large diameter plungers and sleeves provide greater rigidity.

Stainless steel plunger and sleeve assemblies help guard against corrosion in most machining environments.

Standard SAE porting and alternate O-Ring manifold face seal are located in the base of the support for bolt down installation. The base can be removed for direct cartridge mounting.

### Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Support Capacity* (lbs)</th>
<th>Mounting Style ***</th>
<th>Hydraulic Connection</th>
<th>Contact Force** (lbs)</th>
<th>Stroke (in.)</th>
<th>Base Dimensions (in.)</th>
<th>Retracted Height (in.)</th>
<th>Oil Capacity (cu. in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0606-10</td>
<td>1,000</td>
<td>Cartridge Base</td>
<td>Cavity SAE Ports</td>
<td>4</td>
<td>.25</td>
<td>N/A</td>
<td>1.62</td>
<td>.05</td>
</tr>
<tr>
<td>10-0606-11</td>
<td>1,000</td>
<td>Base</td>
<td>Cavity SAE Ports</td>
<td>4</td>
<td>.25</td>
<td>.85 X 1.25 X 1.75</td>
<td>1.93</td>
<td>.12</td>
</tr>
<tr>
<td>10-0606-12</td>
<td>1,000</td>
<td>Base</td>
<td>Cavity SAE Ports</td>
<td>4</td>
<td>.25</td>
<td>.90 X 1.31 X 1.75</td>
<td>1.99</td>
<td>.13</td>
</tr>
<tr>
<td>10-0609-06</td>
<td>2,500</td>
<td>Cartridge Base</td>
<td>Cavity SAE Ports</td>
<td>8</td>
<td>.38</td>
<td>N/A</td>
<td>2.06</td>
<td>.08</td>
</tr>
<tr>
<td>10-0609-07</td>
<td>2,500</td>
<td>Base</td>
<td>Cavity SAE Ports</td>
<td>8</td>
<td>.38</td>
<td>.91 X 1.50 X 2.31</td>
<td>2.40</td>
<td>.13</td>
</tr>
</tbody>
</table>

* Support capacities are listed at 5,000 psi maximum operating pressure. Support capacities for other pressures must be determined by consulting the capacity graph on the next page.

** The maximum air pressure for advancing the plunger is 25 psi. Order air regulator separately.

*** Model No. 50-0440-01 (0 to 25 psi) to more precisely control plunger advance force.

For cartridge mount models, see cavity dimensions on pages B-22.

---

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### Air Filter Regulator

<table>
<thead>
<tr>
<th>Model No.</th>
<th>PSI Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-0440-01</td>
<td>0-25 psi</td>
</tr>
</tbody>
</table>

The maximum air pressure recommended for advancing the Air Advance Work Support plunger is 25 psi. Order air regulator (0 to 25 psi) to more precisely control plunger advance force.

Ask us about air valves to manually or electrically control your work supports.

For proper sealing, mating surface must be flat within 0.003 in with a maximum 63 µ in. roughness finish.

---

### Work Supports

**Air Advance**

Air Advance Work Supports, air pressure lifts plunger against part; hydraulic pressure locks in place, spring retracts plunger.

<table>
<thead>
<tr>
<th>P</th>
<th>Q</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>V</th>
<th>W</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>AA</th>
<th>AB</th>
<th>AC</th>
<th>AD</th>
<th>AE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.75</td>
<td>0.69</td>
<td>1.20</td>
<td>0.51</td>
<td>0.22</td>
<td>SAE 2</td>
<td>0.33</td>
<td>SAE 2</td>
<td>0.33</td>
<td>N/A</td>
<td>0.38</td>
<td>N/A</td>
<td>0.69</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2.31</td>
<td>0.94</td>
<td>1.66</td>
<td>0.72</td>
<td>0.28</td>
<td>SAE 4</td>
<td>0.43</td>
<td>SAE 4</td>
<td>0.43</td>
<td>N/A</td>
<td>0.38</td>
<td>N/A</td>
<td>0.88</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>3.00</td>
<td>1.25</td>
<td>2.41</td>
<td>1.03</td>
<td>0.28</td>
<td>SAE 4</td>
<td>0.63</td>
<td>SAE 4</td>
<td>0.63</td>
<td>N/A</td>
<td>0.38</td>
<td>N/A</td>
<td>1.13</td>
<td>0.16</td>
<td>N/A</td>
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<tr>
<td>3.81</td>
<td>1.75</td>
<td>3.22</td>
<td>1.44</td>
<td>0.34</td>
<td>SAE 4</td>
<td>0.94</td>
<td>SAE 4</td>
<td>0.94</td>
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<td>0.38</td>
<td>N/A</td>
<td>1.63</td>
<td>0.16</td>
<td>N/A</td>
</tr>
</tbody>
</table>

All dimensions are in inches.
Work Supports

Air Advance

**Cavity Check List**

- Confirm capacity of item selected.
- Note the sealing surface finish requirements.
- Minimum depth specification represents the nominal depth of the standard Vektek base dimension.
- Confirm cavity drawing is appropriate for the model number used.
- Note specified thread depth when cutting threads.
- When using a bottoming tap tool, modifications may be required.
- When hand tapping threads, perpendicularity is essential.
- The ‘fluid’ passage is located on the outer diameter and ‘vent’ passage is in the center.

**Cartridge Dimensions**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0606-10</td>
<td>1.62</td>
<td>0.25</td>
<td>1.59</td>
<td>0.27</td>
<td>0.21</td>
<td>0.87</td>
<td>0.63</td>
<td>5/16-18 X 0.29</td>
<td>0.95</td>
<td></td>
</tr>
<tr>
<td>10-0609-06</td>
<td>2.06</td>
<td>0.38</td>
<td>1.96</td>
<td>0.34</td>
<td>0.25</td>
<td>1.12</td>
<td>0.81</td>
<td>3/8-16 X 0.24</td>
<td>1.22</td>
<td></td>
</tr>
</tbody>
</table>

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**Spring and Air Advance Models**

- 20,000 lbs Work Support Capacity.
- Available in Spring and Air Advance.
- Clamp over with confidence.
- Large castings, no problem.
- Handles extra cutting loads effectively and efficiently
- Single Acting.
- Air Advance unit is an excellent "air spring".
- Spring Advance extended plungers maintain contact with the part during loading, exerting only spring force against the part. When hydraulic pressure is applied the plunger freezes without exerting any additional force on the part.

Precision fit plunger/sleeve assemblies allow VektorFlo® Work Supports to begin to lock at lower pressures and build support faster.

Consider Air Advance in flood coolant environments. Attach tubing to the vent port and route to clean dry air keeping coolant from being drawn in and becoming sticky on internal surfaces.

Special large diameter plungers and sleeves provide greater rigidity.

Stainless steel plunger and sleeve assemblies help guard against corrosion in most machining environments.

Standard SAE porting located in the base of the support for bolt down installation.

---

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Support Capacity (lbs)*</th>
<th>Mounting Style</th>
<th>Hydraulic Connection</th>
<th>Contact Force (lbs)**</th>
<th>Stroke (in.)</th>
<th>Base Dimensions (in.)</th>
<th>Extended Height (in.)</th>
<th>Retracted Height (in.)</th>
<th>Oil Capacity (cu. in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0529-10</td>
<td>20,000</td>
<td>Base</td>
<td>SAE Ports</td>
<td>38-72</td>
<td>0.82</td>
<td>1.99 x 4.75 x 4.88</td>
<td>6.97</td>
<td>6.15</td>
<td>3.37</td>
</tr>
<tr>
<td>10-0629-10</td>
<td>20,000</td>
<td>Base</td>
<td>SAE Ports</td>
<td>116</td>
<td>1.00</td>
<td>1.99 x 4.75 x 4.88</td>
<td>7.15</td>
<td>6.15</td>
<td>3.37</td>
</tr>
</tbody>
</table>

* Support capacities are listed at 5,000 psi maximum operating pressure. Support capacities for other pressures must be determined by consulting the capacity graph on the next page.

** The maximum air pressure recommended for advancing the Air Advance Work Support plunger is 25 psi. Order air regulator Model No. 50-0440-01 (0 to 25 psi) to more precisely control plunger advance force.

---

**Dimensions**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0529-10</td>
<td>4 1/4-16</td>
<td>6.96</td>
<td>0.82</td>
<td>3.97</td>
<td>1.99</td>
<td>0.80</td>
<td>0.39</td>
<td>2.85</td>
<td>3/4-16 X 0.87</td>
<td>4.75</td>
<td>2.38</td>
<td>4.00</td>
<td>2.00</td>
</tr>
<tr>
<td>10-0629-10</td>
<td>4 1/4-16</td>
<td>6.15</td>
<td>1.00</td>
<td>3.97</td>
<td>1.99</td>
<td>0.80</td>
<td>0.39</td>
<td>2.85</td>
<td>3/4-16 X 0.87</td>
<td>4.75</td>
<td>2.38</td>
<td>4.00</td>
<td>2.00</td>
</tr>
</tbody>
</table>
The maximum air pressure recommended for advancing the Air Advance Work Support plunger is 25 psi. Order air regulator (0 to 25 psi) to more precisely control plunger advance force.

Ask us about air valves to control your work supports either manually or electrically.
### Fluid Advance

- Available in: 1,000, 2,500 and 4,000 lbs.
- Normally retracted plungers do not interfere with part loading. Advance them with hydraulic pressure, exerting only spring force to bring the plunger into contact with your part. Hydraulic pressure then automatically sequences, “freezing” the plunger properly against the part.
- Ventless configuration and built in wiper keeps chips and debris out, reducing the chance of plunger/sleeve sticking or binding.
- Stainless steel plunger and sleeve assemblies help guard against corrosion in most machining environments.

Plunger and sleeve assemblies designed to help guard against corrosion in most machining environments.

Standard SAE porting and alternate O-Ring manifold face seal is located in the base of the support for bolt down installation. The base can be removed for direct cartridge mounting.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Support Capacity (lbs)</th>
<th>Mounting Style***</th>
<th>Contact Force** (lbs)</th>
<th>Stroke (in)</th>
<th>Base Dimensions (in.)</th>
<th>Retracted Height (in.)</th>
<th>Oil Capacity** (cu. in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0706-04</td>
<td>1,000</td>
<td>Cartridge</td>
<td>1 - 6</td>
<td>0.25</td>
<td>N/A</td>
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<td>0.08</td>
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<tr>
<td>10-0706-14</td>
<td>1,400</td>
<td></td>
<td></td>
<td>0.50</td>
<td>2.62</td>
<td>0.09</td>
<td></td>
</tr>
<tr>
<td>10-0806-05</td>
<td>1,000</td>
<td>SAE/Manifold</td>
<td>1 - 6</td>
<td>0.25</td>
<td>0.90 x 1.31 x 1.75</td>
<td>2.51</td>
<td>0.16</td>
</tr>
<tr>
<td>10-0806-15</td>
<td>1,400</td>
<td></td>
<td></td>
<td>0.50</td>
<td>3.01</td>
<td>0.17</td>
<td></td>
</tr>
<tr>
<td>10-0708-07</td>
<td>2,500</td>
<td>Cartridge</td>
<td>3 - 10</td>
<td>0.25</td>
<td>N/A</td>
<td>2.83</td>
<td>0.12</td>
</tr>
<tr>
<td>10-0708-17</td>
<td>3,000</td>
<td></td>
<td></td>
<td>0.50</td>
<td>3.33</td>
<td>0.14</td>
<td></td>
</tr>
<tr>
<td>10-0808-07</td>
<td>2,500</td>
<td>SAE/Manifold</td>
<td>3 - 10</td>
<td>0.25</td>
<td>1.25 x 1.50 x 2.31</td>
<td>3.25</td>
<td>0.19</td>
</tr>
<tr>
<td>10-0808-17</td>
<td>3,000</td>
<td></td>
<td></td>
<td>0.50</td>
<td>3.75</td>
<td>0.21</td>
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</tr>
<tr>
<td>10-0715-06</td>
<td>4,000</td>
<td>Cartridge</td>
<td>8 - 12</td>
<td>0.50</td>
<td>N/A</td>
<td>2.85</td>
<td>0.59</td>
</tr>
<tr>
<td>10-0815-06</td>
<td></td>
<td>SAE/Manifold</td>
<td></td>
<td>0.99 x 2.88 x 3.19</td>
<td>3.25</td>
<td>0.65</td>
<td></td>
</tr>
</tbody>
</table>

* Support capacities are listed at 5,000 psi maximum operating pressure. Support capacities for other pressures must be determined by consulting the capacity graph on the next page.
** Restrict flow rate to a maximum of 130 cu. in./minute.
*** For cartridge mount models, see cavity dimensions on page B-31.

**NOTE:** The maximum system backpressure a fluid advance work support can overcome is 10 psi. Returning backpressure greater than 10 psi may cause slow or failed retraction.

### Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid Advance Supports, hydraulic pressure lifts spring which lifts plunger, hydraulic pressure locks.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-0806-05</td>
<td>1-16</td>
<td>2.51</td>
<td>0.25</td>
<td>1.17</td>
<td>0.90</td>
<td>0.21</td>
<td>0.88</td>
<td>0.62</td>
<td>0.14</td>
<td>1.31</td>
<td>0.66</td>
<td>0.90</td>
<td>0.45</td>
<td>1.75</td>
</tr>
<tr>
<td>10-0806-15</td>
<td></td>
<td>3.01</td>
<td>0.50</td>
<td>1.67</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-0808-07</td>
<td>1 1/4-16</td>
<td>3.25</td>
<td>0.25</td>
<td>1.35</td>
<td>1.25</td>
<td>0.36</td>
<td>1.13</td>
<td>0.81</td>
<td>0.19</td>
<td>1.50</td>
<td>0.75</td>
<td>1.06</td>
<td>0.53</td>
<td>2.31</td>
</tr>
<tr>
<td>10-0808-17</td>
<td></td>
<td>3.75</td>
<td>0.50</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10-0815-06</td>
<td>2 1/4-16</td>
<td>3.25</td>
<td>0.50</td>
<td>1.57</td>
<td>0.99</td>
<td>0.50</td>
<td>2.00</td>
<td>1.50</td>
<td>0.19</td>
<td>2.88</td>
<td>1.44</td>
<td>2.06</td>
<td>1.03</td>
<td>3.19</td>
</tr>
</tbody>
</table>
For proper sealing, mating surface must be flat within 0.003 in with a maximum 63 µ in. Ra surface finish.
Cavity Check List

- Confirm capacity of item selected.
- Note the sealing surface finish requirements.
- Minimum depth specification represents the nominal depth of the standard Vektek base dimension.
- Confirm cavity drawing is appropriate for the model number used.
- Note specified thread depth when cutting threads.
- When using a bottoming tap tool, modifications may be required.
- When hand tapping threads, perpendicularity is essential.

Cartridge Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>M</th>
<th>V</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0706-04</td>
<td>1-16</td>
<td>2.12</td>
<td>0.25</td>
<td>1.68</td>
<td>0.24</td>
<td>0.21</td>
<td>0.88</td>
<td>0.62</td>
<td>0.14</td>
<td>0.92</td>
<td>0.50</td>
<td>5/16-18 X 0.20</td>
</tr>
<tr>
<td>10-0706-14</td>
<td>2.62</td>
<td>0.50</td>
<td>2.18</td>
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<td>3/8-24 X 0.20</td>
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<tr>
<td>10-0708-07</td>
<td>2.83</td>
<td>0.25</td>
<td>2.17</td>
<td>0.31</td>
<td>0.36</td>
<td>1.13</td>
<td>0.81</td>
<td>0.19</td>
<td>1.17</td>
<td>0.63</td>
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<td>7/16-14 X 0.25</td>
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<td>10-0708-17</td>
<td>3.33</td>
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<td>2.67</td>
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<td>10-0715-06</td>
<td>2.12</td>
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<td>2.16</td>
<td>0.19</td>
<td>0.50</td>
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<td>1.50</td>
<td>0.19</td>
<td>2.16</td>
<td>0.75</td>
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<td>1/2-13 X 0.25</td>
</tr>
</tbody>
</table>
Work Support Cavity Dimensions:

- #4000 Single Acting Fluid Advance
  - 10-0715-06
  - (Torque to 100 Ft-Lbs.)

- Ø0.63 x 0.09 deep anywhere on a 0.60" radius
- Ø2.189 ± 0.007 x 0.090 ± 0.016 thread 2 1/4-16 UN x 1.50 ± 0.020 with ø 0.227 x 45° chamfer

Fluid Advance Cartridge Cavities

- Ø0.63 ± 0.020 (Thread Depth)
- 0.090 ± 0.016
- Ø2.165 ± 0.001
- Ø0.078 (Mini Drill Thru to Ø0.188 hole (Typ))
- Ø0.281 max. thru to fluid passage anywhere on or inside a 0.50" radius
- Ø0.590 min.

Work Supports

- #4000 Single Acting Fluid Advance
  - 10-0706-04 & 10-0706-14
  - (Torque to 30 Fl. Lbs.)

- Ø0.590 ± 0.016
- Ø2.189 ± 0.007 x 0.090 ± 0.016 thread 2 1/4-16 UN x 1.50 ± 0.020 with ø 0.227 x 45° chamfer

Thread 1/16 on ø 0.210 ± 0.020 with ø 0.02 x 45° chamfer

Thread 1/8 on ø 0.362 ± 0.004 x 0.135 ± 0.016 with ø 0.02 x 45° chamfer
Work Supports

Fluid Advance Accessories

Fluid Advance Work Support Shields

<table>
<thead>
<tr>
<th>Shield Model No.</th>
<th>Work Support Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>81-0707-01</td>
<td>10-0706-04</td>
<td>0.66</td>
<td>0.50</td>
<td>0.30</td>
<td>1.04</td>
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<td>10-0706-14</td>
<td>10-0706-10</td>
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<tr>
<td></td>
<td>10-0806-05</td>
<td>10-0806-10</td>
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<td>10-0806-15</td>
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<tr>
<td>81-0708-01</td>
<td>10-0708-07</td>
<td>0.85</td>
<td>0.84</td>
<td>0.43</td>
<td>1.38</td>
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<tr>
<td></td>
<td>10-0708-17</td>
<td>10-0708-10</td>
<td></td>
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<tr>
<td></td>
<td>10-0808-07</td>
<td>10-0808-10</td>
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<tr>
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<td>10-0808-17</td>
<td>10-0808-20</td>
<td></td>
<td></td>
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<tr>
<td>81-0715-01</td>
<td>10-0715-06</td>
<td>0.92</td>
<td>1.00</td>
<td>0.58</td>
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<td>10-0815-06</td>
<td>10-0815-20-PS</td>
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</table>

For use with S/A fluid advance Work Supports only.

Feeder Caps

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-9872-40</td>
<td>1-16</td>
<td>1.00</td>
<td>0.53</td>
<td>1.25</td>
</tr>
<tr>
<td>30-9872-43</td>
<td>1 1/4-16</td>
<td>1.38</td>
<td>0.85</td>
<td>1.50</td>
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<tr>
<td>30-9872-47</td>
<td>2 1/4-16</td>
<td>0.99</td>
<td>0.59</td>
<td>2.50</td>
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</table>

For use with fluid advance Work Supports only.

Machining Specifications

<table>
<thead>
<tr>
<th>Work Support Capacity</th>
<th>B</th>
<th>C</th>
<th>Lock Nut</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000/1,400/1,800 lbs</td>
<td>1-16</td>
<td>1.44</td>
<td>N/A</td>
</tr>
<tr>
<td>2,500/3,000/3,500 lbs</td>
<td>1 1/4-16</td>
<td>1.73</td>
<td>64-0012-00</td>
</tr>
<tr>
<td>4,000 lbs</td>
<td>2 1/4-16</td>
<td>2.89</td>
<td>64-0022-00</td>
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</table>

Self-Produced Contact Bolt

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Capacity (lbs)</th>
<th>O-Ring Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-0706-04</td>
<td>1,000 Std. Stroke</td>
<td>39-0510-59 (0.236 x 0.059)</td>
<td>0.384</td>
<td>0.197</td>
<td>0.238</td>
<td>0.047</td>
<td>5/16-18 UNC -2A</td>
</tr>
<tr>
<td>10-0706-14</td>
<td>1,400 Long Stroke</td>
<td>39-0000-69 (.301 x .064)</td>
<td>0.450</td>
<td>0.197</td>
<td>0.302</td>
<td>0.047</td>
<td>3/8-24 UNF -2A</td>
</tr>
<tr>
<td>10-0706-10</td>
<td>1,800 High Capacity</td>
<td>39-0510-59 (0.236 x 0.059)</td>
<td>0.384</td>
<td>0.197</td>
<td>0.238</td>
<td>0.047</td>
<td>5/16-18 UNC -2A</td>
</tr>
<tr>
<td>10-0708-07</td>
<td>2,500 Long Stroke</td>
<td>55-2500-05 (0.301 x 0.070)</td>
<td>0.493</td>
<td>0.250</td>
<td>0.328</td>
<td>0.070</td>
<td>7/16-14 UNC -2A</td>
</tr>
<tr>
<td>10-0708-17</td>
<td>3,000 Std. Stroke</td>
<td>55-2500-05 (0.301 x 0.070)</td>
<td>0.493</td>
<td>0.250</td>
<td>0.328</td>
<td>0.070</td>
<td>7/16-14 UNC -2A</td>
</tr>
<tr>
<td>10-0708-10</td>
<td>3,500 High Capacity</td>
<td>55-2500-05 (0.301 x 0.070)</td>
<td>0.493</td>
<td>0.250</td>
<td>0.328</td>
<td>0.070</td>
<td>7/16-14 UNC -2A</td>
</tr>
<tr>
<td>10-0715-06</td>
<td>4,000 Std. Stroke</td>
<td>39-0020-09 (0.236 x 0.059)</td>
<td>0.555</td>
<td>0.250</td>
<td>0.390</td>
<td>0.070</td>
<td>1/2-13 UNC -2A</td>
</tr>
</tbody>
</table>

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Work Supports

Vektek Concept

Work Support Concept