Push/Pull Cylinders

Top Flange/Manifold

Single And Double Acting

- Tapered top flange is designed to keep chips and coolants away from the internal working cylinder parts.
- Bolt into place and plumb, or to eliminate the external plumbing, follow the easy-to-make manifold pattern.
- Use standard SAE fittings to plumb.
- Single piece body and mounting give a rigid installation, no additional mounting hardware to purchase or install.
- Manifold fitting 30-8711-20, adapter assembly and plugs are included and shipped with the clamp.
- Also available in a straight line guided model, order as swing clamp.
- Optional In-Port Flow Control is a meter-in device with reverse free flow check valve.
- Optional In-Port Sequence valve is a sequencing device with reverse free flow check valve.

Low install clamping height can be adjusted to fit your part with easy-to-make risers.

Standard SAE and manifold plumbing options are built into each unit.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Cylinder Capacity (lbs)**</th>
<th>Stroke (in)</th>
<th>Effective Piston Area (sq. in.)</th>
<th>Oil Capacity (cu. in.)</th>
<th>Port X Depth for Optional In-Port Valves***</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Extend</td>
<td>Retract</td>
<td>Extend</td>
<td>Retract</td>
<td>Extend</td>
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<tr>
<td>Single Acting (S/A)</td>
<td>Cylinders, actuated hydraulically 1 direction, spring returned.</td>
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<tr>
<td>25-0505-00</td>
<td>N/A</td>
<td>470</td>
<td>0.57</td>
<td>N/A</td>
<td>0.098</td>
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<tr>
<td>25-0509-08</td>
<td>N/A</td>
<td>1,400</td>
<td>0.79</td>
<td>N/A</td>
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<td>25-0513-11</td>
<td>N/A</td>
<td>3,100</td>
<td>1.16</td>
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<td>25-0518-00</td>
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<td>5,600</td>
<td>1.66</td>
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<tr>
<td>Double Acting (D/A)</td>
<td>Cylinders, actuated hydraulically both directions.</td>
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<td>25-0605-00</td>
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</table>

** Cylinder capacities are listed at 5,000 psi maximum operating pressure. The output force is adjustable by varying the hydraulic system pressure. To determine approximate output force for your application, multiply the piston area by your system operating pressure. (Actual force may vary slightly due to friction loss, seal and wiper drag and/or return springs.)

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

Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>H</th>
<th>K</th>
<th>L</th>
<th>M</th>
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<tr>
<td>25-0505-00</td>
<td>0.99</td>
<td>4.02</td>
<td>0.75</td>
<td>2.02</td>
<td>0.31</td>
<td>0.437</td>
<td>0.57</td>
<td>1/4-28 X 0.28</td>
<td>0.22</td>
<td>0.31</td>
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<td>5.32</td>
<td>1.03</td>
<td>2.60</td>
<td>0.38</td>
<td>0.625</td>
<td>0.79</td>
<td>3/8-24 X 0.47</td>
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<tr>
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<td>6.82</td>
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<td>3.35</td>
<td>0.41</td>
<td>0.875</td>
<td>1.16</td>
<td>1/2-20 X 0.52</td>
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<tr>
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<td>1.47</td>
<td>4.43</td>
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<td>5/8-18 X 0.75</td>
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## Push/Pull Cylinders

### Top Flange/Manifold

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

### Cylinders

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<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>
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### Double Acting

Cylinders, actuated hydraulically both directions. Spring returned.

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