Single Acting Reciprocating Pump – Air/Gas Driven
Chemical Injection/Hydrostatic Testing Pump

SPECIFICATIONS
- Power Cylinder Size 6"
- Stroke Length 2"
- Adjustable Speed up to 100 Cycles/Min
- Air/Gas Input Pressure 100 psi max.
- Gas Consumption 51 SCFM
- Temperature Range: -20 ºF/140 ºF
- Weight: 175 lbs
- Shipping Cube: 13.5 ft³
- Dimensions 37”x12”x20” (L*W*H)

FEATURES
- API 674 Compliant
- Can be adapted for use as high Pressure, Air-or Gas Operated Transfer Pump
- Complete Chemical Injection or Hydrostatic Test Packages Built to Customer Requirements.
- Can be adapted for portable use by specifying a skid base, Guard Rail and Lifting Eyes.
- Non-Lubricated Packing and Piston Cups.
- Virtually Trouble-Free for extended running times if proper lubrication and reasonable care of the pump is maintained.
- The standard unit has two fluid ends, Single Fluid End available if desired.
- Compact, Portable and Light Weight.
- Hoses, gauges and other accessories are also available.
- Field adjustable speed/volume control.
- Easily maintained.

Performance Chart - Volume & Pressure

<table>
<thead>
<tr>
<th>Plunger/Piston</th>
<th><strong>GPM</strong>@ 100 cpm</th>
<th><strong>LPM</strong>@ 100 cpm</th>
<th><strong>Operating Pressure</strong></th>
<th><strong>Stall Pressure</strong></th>
<th>Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>90% theoretical maximum</strong></td>
<td><strong>85% efficiency</strong></td>
<td><strong>Suction</strong></td>
<td><strong>Discharge</strong></td>
<td><strong>Air/Gas Inlet</strong></td>
</tr>
<tr>
<td>1/4”</td>
<td>0.08</td>
<td>0.30</td>
<td>39.177</td>
<td>2,701</td>
<td>½” NPT Female</td>
</tr>
<tr>
<td>5/16”</td>
<td>0.12</td>
<td>0.45</td>
<td>25.080</td>
<td>1,729</td>
<td>½” NPT Female</td>
</tr>
<tr>
<td>3/8”</td>
<td>0.17</td>
<td>0.64</td>
<td>17,424</td>
<td>1,201</td>
<td>½” NPT Female</td>
</tr>
<tr>
<td>1/2”</td>
<td>0.31</td>
<td>1.17</td>
<td>9,799</td>
<td>676</td>
<td>½” NPT Female</td>
</tr>
<tr>
<td>5/8”</td>
<td>0.48</td>
<td>1.82</td>
<td>6,270</td>
<td>432</td>
<td>½” NPT Female</td>
</tr>
<tr>
<td>3/4”</td>
<td>0.69</td>
<td>2.61</td>
<td>4,354</td>
<td>300</td>
<td>½” NPT Female</td>
</tr>
<tr>
<td>1”</td>
<td>1.22</td>
<td>4.62</td>
<td>2,449</td>
<td>169</td>
<td>½” NPT Female</td>
</tr>
<tr>
<td>1 1/4”</td>
<td>1.91</td>
<td>7.23</td>
<td>1,568</td>
<td>108</td>
<td>½” NPT Female</td>
</tr>
<tr>
<td>1 1/2”</td>
<td>2.75</td>
<td>10.41</td>
<td>1,089</td>
<td>75</td>
<td>3/4” NPT Female</td>
</tr>
<tr>
<td>1 3/4”</td>
<td>3.75</td>
<td>14.20</td>
<td>800</td>
<td>55</td>
<td>3/4” NPT Female</td>
</tr>
<tr>
<td>2”</td>
<td>4.9</td>
<td>18.55</td>
<td>613</td>
<td>42</td>
<td>¾” NPT Female</td>
</tr>
</tbody>
</table>

* Volume based on 90% theoretical maximum ** Stall Pressure based on 85% efficiency *** Gas Consumption @ 100 psi and 100 cpm = 51 SCFM
MAC 26 GENERAL ARRANGEMENT

MATERIAL OF CONSTRUCTION

- Fluid End-Carbon Steel or Stainless Steel
- Plunger-Stainless Steel 17-4 PH Heat Treated
- Power Body-Cast Aluminum / Carbon Steel / St.St
- Air Valve Housing–Aluminum / Carbon Steel / St.St
- Check Valves-Stainless Steel
- Air Valve Core –Brass / Ryton for sour gas application
- Manifolding-Carbon Steel or Stainless Steel

STANDARD EQUIPMENT

- Air/ Gas Pressure Regulator
- Air/Gas Pressure Gauge
- Air-Gas Lubricator
- Throttle Control Valve
- Base Plate
- Standard McFarland Blue Color

OPTIONAL EQUIPMENT

1. MAC 26 with skid base, drip pan & lifting eyes - Standard McFarland blue color
2. MAC 26 with skid base, guard rail, drip pan and lifting eyes - Standard McFarland blue color.
3. MAC 26 with skid base, guard rail, drip pan, Casters and lifting eyes - Standard McFarland blue color
4. Any of above options with common suction / common discharge manifolding, carbon steel or St.St
5. Any of above options with Demitcote coating for Offshore Environments
6. Any of above options with DNV 2.7-1 Compliant Skid.
7. MAC 26 Pump - Sour Gas Modification for NACE MR0175 Compliance.

APPLICATIONS

- Chemical injection at offshore oil wellheads
- Methanol injection in gas systems to prevent freezing
- General high pressure injection applications
- Hydrostatic testing
- Corrosion & Scale inhibitor in pipelines
- Triethylene glycol (TEG)
- Defoamer/Anti-foamer
- H2S gas scavengers
Flow Rate Vs. Cycles per Minute

Plunger Size (2", 1 ¾", 1 ½", 1 ¼", 1", 3/4")

- Plunger 2": 4.9 GPM
- Plunger 1 ¾": 3.75 GPM
- Plunger 1 ½": 2.75 GPM
- Plunger 1 ¼": 1.91 GPM
- Plunger 1": 1.22 GPM
- Plunger 3/4": 0.69 GPM
MAC 26

Flow Rate Vs. Cycles per Minute

Plunger Size (5/8”, 1/2”, 3/8”, 5/16”, 1/4”)

Flow Rate, GPM

Cycles per Minute

Plunger 5/8”
0.48 GPM

Plunger 1/2”
0.31 GPM

Plunger 3/8”
0.17 GPM

Plunger 5/16”
0.12 GPM

Plunger 1/4”
0.08 GPM
Operating Pressure vs. Supply Pressure


- Plunger 1/4" 39,177 PSI
- Plunger 5/16" 25,080 PSI
- Plunger 3/8" 17,424 PSI
- Plunger 1/2" 9,799 PSI
- Plunger 5/8" 6,270 PSI
- Plunger 3/4" 4,354 PSI
Operating Pressure vs. Supply Pressure

Plunger Size (1", 1 ¼", 1 ½", 1 ¾", 2")

- Plunger 1" 2,449 PSI
- Plunger 1 ¼" 1,568 PSI
- Plunger 1 ½" 1,089 PSI
- Plunger 1 ¾" 800 PSI
- Plunger 2" 613 PSI

Supply Air or Gas Pressure, PSI

Operating Pressure, PSI