A050 - 1/2 INCH AIR OPERATED DOUBLE DIAPHRAGM PUMP
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>½&quot; FNPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Inlet</td>
<td>¼&quot; FNPT</td>
</tr>
<tr>
<td>Liquid Inlet</td>
<td>½” FNPT/BSP &amp; 1” MNPT/BSP</td>
</tr>
<tr>
<td>Liquid Outlet</td>
<td>½” FNPT/BSP &amp; 1” MNPT/BSP</td>
</tr>
<tr>
<td>Weight</td>
<td>AL-10 lbs [4.5 kg]/SS-20 lbs [9.1 kg]</td>
</tr>
</tbody>
</table>

**Performance**

- Max. Flow: 15 gpm [56.8 lpm]
- Max. Air Pressure: 120 psi [8.3 bar]
- Max. Solids: ⅛” [3.2 mm]
- Max. Suction Lift Dry: 15 ft-H₂O [4.5 m-H₂O]
- Max. Suction Lift Dry with PTFE: 14 ft-H₂O [4.3 m-H₂O]
- Max. Suction Lift Wet: 31 ft-H₂O [9.4 m-H₂O]
- Noise Level (without muffler): 80 dB [102 none]
## A050 1/2" MODEL DESIGNATION MATRIX

<table>
<thead>
<tr>
<th>PRODUCT SERIES</th>
<th>SIZE</th>
<th>VALVE/BALL</th>
<th>DIAPHRAGM</th>
<th>VALVE SEAT</th>
<th>O-RINGS</th>
<th>MATERIAL</th>
<th>INTERMEDIATE / INNER CHAMBER</th>
<th>SPECIAL (HARDWARE, MUFFLER)</th>
<th>SPECIAL (PORTING)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A050-NA0-500</td>
<td>1/2</td>
<td>A</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>P</td>
<td>A = Aluminum</td>
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<tr>
<td>A050-NA0-501</td>
<td>1/2</td>
<td>A</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>T</td>
<td>A = Aluminum</td>
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<tr>
<td>A050-NA0-502</td>
<td>1/2</td>
<td>A</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>V</td>
<td>A = Aluminum</td>
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<tr>
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<td>1/2</td>
<td>A</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>S</td>
<td>A = Aluminum</td>
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<tr>
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<tr>
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<td>A = Aluminum</td>
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<tr>
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<td>A</td>
<td>4</td>
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<td>7</td>
<td>E</td>
<td>A = Aluminum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A050-NA0-508</td>
<td>1/2</td>
<td>A</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>T</td>
<td>A = Aluminum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A050-NA0-509</td>
<td>1/2</td>
<td>A</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>V</td>
<td>A = Aluminum</td>
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</tr>
</tbody>
</table>

### WET END REPAIR KIT

Wet end kit contains 2 diaphragms, (2 back-up diaphragms if required), 4 balls, 4 seats, and 4 seat o-rings.

### AIR END REPAIR KIT

Air end repair kit contains pilot sleeve assembly and main air valve.

### QUICK SHIP CONFIGURATIONS

Ships in All-Flo Standard Lead Time

### STOCK PUMP MODELS

**FNPT Connection**
- A050-NAA-GGP-000
- A050-NAA-GGYN-000
- A050-NAA-TTPT-000
- A050-NAA-TTTY-000
- A050-NAA-SSPE-000
- A050-NAA-SSYE-000
- A050-NA3-SS3E-000
- A050-NA3-TT3T-000

**FBSP Connection**
- A050-BAA-GGP-000
- A050-BAA-GGYN-000
- A050-BAA-TTPT-000
- A050-BAA-TTTY-000
- A050-BAA-SSPE-000
- A050-BAA-SSYE-000
- A050-BA3-SS3E-000
- A050-BA3-TT3T-000

Many additional pump configurations are available upon request. Lead time may vary depending on configuration. Please contact factory for more information.
**A050 1/2” PERFORMANCE CURVES**

**Performance Specifications**

- **Max. Flow:** 14 gpm (53.0 lpm)
- **Max. Air Pressure:** 120 psi (8.3 bar)
- **Max. Solids:** 1/8” (3.2 mm)
- **Max. Suction Lift Dry:** 15 ft-H₂O (4.5 m-H₂O)
- **Max. Suction Lift Wet:** 31 ft-H₂O (9.4 m-H₂O)
- **Weight:** AL-10 lbs (4.5 kg)/SS-20 lbs (9.1 kg)
- **Air Inlet:** 1/4” FNPT
- **Liquid Inlet:** ½” FNPT/BSP
- **Liquid Outlet:** ½” FNPT/BSP
- **Height:** 11.2” (284 mm)
- **Width:** 10.3” (262 mm)
- **Depth:** 6.4” (163 mm)**

**Performance Specifications**

- **Max. Flow:** 15 gpm (56.8 lpm)
- **Max. Air Pressure:** 120 psi (8.3 bar)
- **Max. Solids:** 1/8” (3.2 mm)
- **Max. Suction Lift Dry:** 15 ft-H₂O (4.5 m-H₂O)
- **Max. Suction Lift Wet:** 31 ft-H₂O (9.4 m-H₂O)
- **Weight:** AL-10 lbs (4.5 kg)/SS-20 lbs (9.1 kg)
- **Air Inlet:** 1/4” FNPT
- **Liquid Inlet:** ½” FNPT/BSP
- **Liquid Outlet:** ½” FNPT/BSP
- **Height:** 11.2” (284 mm)
- **Width:** 10.3” (262 mm)
- **Depth:** 6.4” (163 mm)**

**Performance Specifications**

- **Max. Flow:** 13 gpm (49.2 lpm)
- **Max. Air Pressure:** 120 psi (8.3 bar)
- **Max. Solids:** 1/8” (3.2 mm)
- **Max. Suction Lift Dry:** 14 ft-H₂O (4.3 m-H₂O)
- **Max. Suction Lift Wet:** 31 ft-H₂O (9.4 m-H₂O)
- **Weight:** AL-10 lbs (4.5 kg)/SS-20 lbs (9.1 kg)
- **Air Inlet:** 1/4” FNPT
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*Flow rates indicated on all three charts shown were determined by pumping water at flooded suction, using an aluminum intermediate fitted pump. For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve. **Polypropylene intermediate is 7.3” (185mm) deep.*
A050 1/2" PUMP DIMENSIONS

ALUMINUM INTERMEDIATE

GLASS FILLED POLYPROPYLENE INTERMEDIATE

Note - Suction Right / Discharge Right are default ports. See part number matrix option code for additional porting options.

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