Miniature Diaphragm 22D1180 DC Series
Oilless Diaphragm Pump to 36.8 LPM

**DC Motor**
25 psi max. pressure, 22.5 inHg max. vacuum
26.8 LPM open flow

**PRODUCT FEATURES**
- Permanently lubricated ball bearings on rod and motor drive bearing
- Rear sleeve bearing (1002, 1005 models have ball bearing for higher pressure)
- Field service capability
- Includes AJ988 filter assembly, unattached

**MATERIALS OF CONSTRUCTION**
- Head assembly and bracket made of Polyphenylene Sulfide (PPS) for excellent chemical and heat resistance
- Stainless steel valves
- Neoprene/nylon diaphragm standard
- Other diaphragm materials available

**RECOMMENDED ACCESSORIES**
- AA640 Vacuum gauge
- AA204 Vacuum relief valve
- AA644B Pressure gauge
- AA203 Pressure relief valve
- AF584A Rubber feet (3)
- B300Q Muffler/filter (high capacity; to be used in dirty environments or when superior noise reduction is required)

**Product Specifications**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Motor</th>
<th>RPM</th>
<th>Amps</th>
<th>HP</th>
<th>kW</th>
<th>Net Weight</th>
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</thead>
<tbody>
<tr>
<td>22D1180-201-1088</td>
<td>12V DC</td>
<td>3000</td>
<td>3.6</td>
<td>1/20</td>
<td>0.04</td>
<td>2.7, 1.22</td>
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<tr>
<td>22D1180-201-1002</td>
<td>12V DC</td>
<td>3200</td>
<td>6.2</td>
<td>1/8</td>
<td>0.09</td>
<td>4.9, 2.21</td>
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<tr>
<td>22D1180-201-1005</td>
<td>24V DC</td>
<td>3200</td>
<td>3.5</td>
<td>1/8</td>
<td>0.09</td>
<td>4.9, 2.21</td>
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<td>6.2</td>
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<td>0.09</td>
<td>4.9, 2.21</td>
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<tr>
<td>*22D1180-202-1005</td>
<td>24V DC</td>
<td>3200</td>
<td>3.5</td>
<td>1/8</td>
<td>0.09</td>
<td>4.9, 2.21</td>
</tr>
</tbody>
</table>

* Ports in opposite positions to the diagrams on the previous page.

**Product Performance**

Shown with attached filter/muffler

12V & 24V units have the shorter 3.97” mtg foot dimension.
24V units also have the longer 5.08” mtg foot dimension.
Shaded Pole Motor
20 psi continuous pressure (25 psi inter.)
22 inHg max. vacuum, 18.7 LPM open flow (60 Hz)

PSC Motor
25 psi max. pressure, 23 inHg max. vacuum
26.3 LPM open flow (60 Hz)

PRODUCT FEATURES
- Permanently lubricated ball bearings on rod and motor drive bearing
- Rear sleeve bearing (DC 1002, 1005 models have ball bearing for higher pressure)
- Field service capability
- PSC models include attached capacitor
- Includes AJ988 filter assembly, unattached

MATERIALS OF CONSTRUCTION
- Head assembly and bracket made of Polyphenylene Sulfide (PPS) for excellent chemical and heat resistance
- Stainless steel valves
- Neoprene/nylon diaphragm standard
- Other diaphragm materials available

RECOMMENDED ACCESSORIES
- AA640 Vacuum gauge
- AA204 Vacuum relief valve
- AA644B Pressure gauge
- AA203 Pressure relief valve
- AF584A Rubber feet (3)
- B300Q Muffler/filter (high capacity; to be used in dirty environments or when superior noise reduction is required)
- K588 Service kit Assembled head

Product Dimensions (inches, mm)
Reference only
22D1180-201-1003
22D1180-201-1019
Shown with attached filter/muffler

22D1180-201-1087 Shown with attached filter/muffler
### Product Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Motor</th>
<th>RPM</th>
<th>Running Amps</th>
<th>HP</th>
<th>kW</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>22D1180-201-1003</td>
<td>*115-60-1</td>
<td>1725</td>
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<td>† 22D1180-201-1019</td>
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<td>0.04</td>
<td>5.1</td>
</tr>
</tbody>
</table>

* Shaded Pole
† @60 Hz – 50 Hz is 1425 RPM

### Product Performance

Metric, AC model shows 60 Hz performance.