MICRO PUMP ORANGE EDITION FROM XAVITECH
ORANGE Edition is suitable for those who need a high quality micro pump and can manage with a somewhat limited service lifespan. ORANGE Edition has a defined service lifespan of 1,000 hours and a fixed interface with your system.

• Affordable solution
• Guaranteed service lifespan
• Highest quality

MICRO PUMP WITH GUARANTEED FUNCTION OF 1,000 HOURS
It can be frustrating to need to adapt your product to variations in the service lifespans of pumps. With the ORANGE Edition, you get a micro pump that is guaranteed to work for the full 1,000 hours it was designed to do, at a very good price. In this way, you do not need to pay for pumps with longer service lifespans in order to be assured that the pump will actually work for the stated number of hours.

ORANGE EDITION PROVIDES HIGH QUALITY AT AN AFFORDABLE PRICE
Xavitech's belief in high quality pervades this pump version. Flexibility is limited in the ORANGE Edition, which allows for such an affordable price. It is sold in a limited number of standard designs for each pump model. If this is too limiting, then we suggest you check out our BLACK edition instead.
## GENERAL FLOW PERFORMANCE V1500 PUMPS

![General Flow Curve of V1500 Orange Pump](image)

### GENERAL FLOW SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freeflow</td>
<td>&gt; 900 ml/min</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>&lt; 100 mbar</td>
</tr>
<tr>
<td>Maximum Vacuum</td>
<td>&gt; 300 mbar</td>
</tr>
</tbody>
</table>

### PERMISSIBLE AMBIENT TEMP
- **0 - 55 C**

### PERMISSIBLE MEDIUM TEMP
- **0 - 55 C**

### FLOW MEDIA
- Air and gas.

### WETTED PARTS
- EPDM and PPS

### CAPACITORS
- Missing VCC capacitor can damage the pump. See electrical interface datasheet

### CONNECTIONS
- Incorrect lead connection can damage the pump

### FILTERS
- To insure lifetime, air filters should be used in order to prevent contaminations like dust to enter the pump

### FLOW TOLERANCES
- Flow can vary +/- 10% of maximum specification between individual pumps

### VACUUM AND PRESSURE TOLERANCES
- Vacuum and pressure can vary +/- 10% of maximum specification between individual pumps

### PUMP FLOW
- Flow can only be in one direction and can not be reversed
### STANDARD MODELS (Part number)

The ORANGE version is only available in fixed voltages and cannot be customized on flow calibration. The lifetime is also fixed. Choose the BLACK edition if more flexible solutions is required.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE (DC)</th>
<th>FLOW (ml/min)</th>
<th>MAX VACUUM (mbar)</th>
<th>CONNECTION INTERFACE</th>
<th>ANALOG FLOW CONTROL</th>
<th>SERIAL INTERFACE (RS-232)</th>
<th>LIFE TIME (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1500-O2C12V</td>
<td>12V</td>
<td>&gt;900</td>
<td>&gt;300</td>
<td>2 Wires</td>
<td>NO</td>
<td>NO</td>
<td>1000</td>
</tr>
<tr>
<td>V1500-O2C24V</td>
<td>24V</td>
<td>&gt;900</td>
<td>&gt;300</td>
<td>2 Wires</td>
<td>NO</td>
<td>NO</td>
<td>1000</td>
</tr>
</tbody>
</table>

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V1500 ORANGE edition. 24V DC version

Current Vs Voltage (@ Maximum freeflow)

Maximum flow Vs. Voltage

Max vacuum Vs. Voltage (@ maximum freeflow)

V1500 ORANGE edition. 12V DC version

Current Vs Voltage (@ Maximum freeflow)

Maximum flow Vs. Voltage

Max vacuum Vs. Voltage (@ maximum freeflow)
V1500 AND P1500 ORANGE EDITION
2-WIRE CONNECTION

ALL DIMENSIONS ARE IN MM

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>V1500 AND P1500 ORANGE EDITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONNECTION</td>
<td>2 wires</td>
</tr>
<tr>
<td>DRAWING SCALE</td>
<td>1:1</td>
</tr>
<tr>
<td>DIMENSION TOLERANCE</td>
<td>+/- 0.4mm</td>
</tr>
<tr>
<td>PUMP WEIGHT</td>
<td>108g +/- 2g</td>
</tr>
<tr>
<td>RECOMMENDED CONNECTORS</td>
<td>MOLEX 53047 (picoblade)</td>
</tr>
<tr>
<td>RECOMMENDED TUBE ID</td>
<td>2.8 - 3.8mm (Material dependent)</td>
</tr>
</tbody>
</table>