GRI specializes in the custom design and manufacturing of fluid pumps for the OEM market. The chart below is a general overview of GRI’s **INTG1 Series Pumps**. If you do not find a pump that meets your exact requirements, our dedicated Sales Team will work with you to create a solution specific to your application - whether it is customizing an existing pump or designing new.

### Specifications
- **Max. Fluid Temp:** 203°F (95°C)
- **Max Sys. Pressure:** 50 psi
- **Approx. Weight:** .8 LBS (362.9 grams)
- **Ports:** 1/2” MHB, 3/8” MPT
- **OEM Customization Available**

### Materials in contact with solution
- **Body:** LCP
- **Housing:** PPS
- **Impeller:** LCP
- **Impeller Shaft:** Stainless Steel
- **Static O-Ring:** EPDM, FKM (Viton)

### Motor specifications
- **Motor:** Integrated, Brushless DC
- **Supply Voltage:** 12, 24, 12-24 VDC
- **Electronics Max Power:** 1.5 amps
  
  It is recommended that the customer provide circuit over current protection to the pump. A 1.5 amp fast acting fuse is recommended.

### Wiring Options
- **2-wire**
- **3-wire:** 0-5 volts (Reference DC NEG). Speed is controlled by a nominal 0-5 volt DC signal.
- **Tachometer feedback option available.**

### Agency Approvals
- **Contact GRI**

### Compliances
- **RoHS 2 (2011/65/EC)**
- **REACH (SVHC)**

---

**Note:** Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown. **Do Not Run Pumps Dry. Pumps must be in a continuous flooded suction environment.**
### INTG1 Series

#### Model / O-Ring

<table>
<thead>
<tr>
<th>EPDM</th>
<th>FKM</th>
<th>Voltage</th>
<th>Wires</th>
<th>Max Flow GPM (LPM)</th>
<th>Max Head Ft (PSI) (m) (BAR)</th>
<th>Ports Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTG1-280</td>
<td>INTG1-281</td>
<td>9-24</td>
<td>2-wire</td>
<td>2.50 (9.50)</td>
<td>12.80 (5.5) (3.90) (0.36)</td>
<td>1/2 MHB</td>
</tr>
<tr>
<td>INTG1-284</td>
<td>INTG1-285</td>
<td>9-24</td>
<td>2-wire</td>
<td>2.50 (9.50)</td>
<td>12.80 (5.5) (3.90) (0.36)</td>
<td>3/8 MPT</td>
</tr>
<tr>
<td>INTG1-380</td>
<td>INTG1-381</td>
<td>9-24</td>
<td>3-wire</td>
<td>2.50 (9.50)</td>
<td>12.80 (5.5) (3.90) (0.36)</td>
<td>1/2 MHB</td>
</tr>
<tr>
<td>INTG1-384</td>
<td>INTG1-385</td>
<td>9-24</td>
<td>3-wire</td>
<td>2.50 (9.50)</td>
<td>12.80 (5.5) (3.90) (0.36)</td>
<td>3/8 MPT</td>
</tr>
</tbody>
</table>

**3-wire:** Attaching a 0-5vdc signal to the third (speed control) wire allows you to turn down and thus vary the performance of the pump as needed, given a fixed supply across the red and black wires. If the speed control wire is not connected, the pump will run full-on.

**Connectors:** MHB = Male Hose Barb; MPT = Male Pipe Thread

**O-Ring Material:** EPDM = Ethylene Propylene Diene Monomer, FKM = Fluoroelastomer.

---

Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown. Do Not Run Pumps Dry. Pumps must be in a continuous flooded suction environment.