

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  |
|---|
| <b>Max. Fluid Temp:</b> 203°F (95°C)                            |
| <b>Max Sys. Pressure:</b> 50 psi                                |
| <b>Approx. Weight:</b> .8 LBS (362.9 grams)                     |
| <b>Ports:</b> 1/2" MHB, 3/8" MPT<br>OEM Customization Available |

| Materials in contact with solution      |
|---|
| <b>Body:</b> LCP                        |
| <b>Housing:</b> PPS                     |
| <b>Impeller:</b> LCP                    |
| <b>Impeller Shaft:</b> Stainless Steel  |
| <b>Static O-Ring:</b> EPDM, FKM (Viton) |

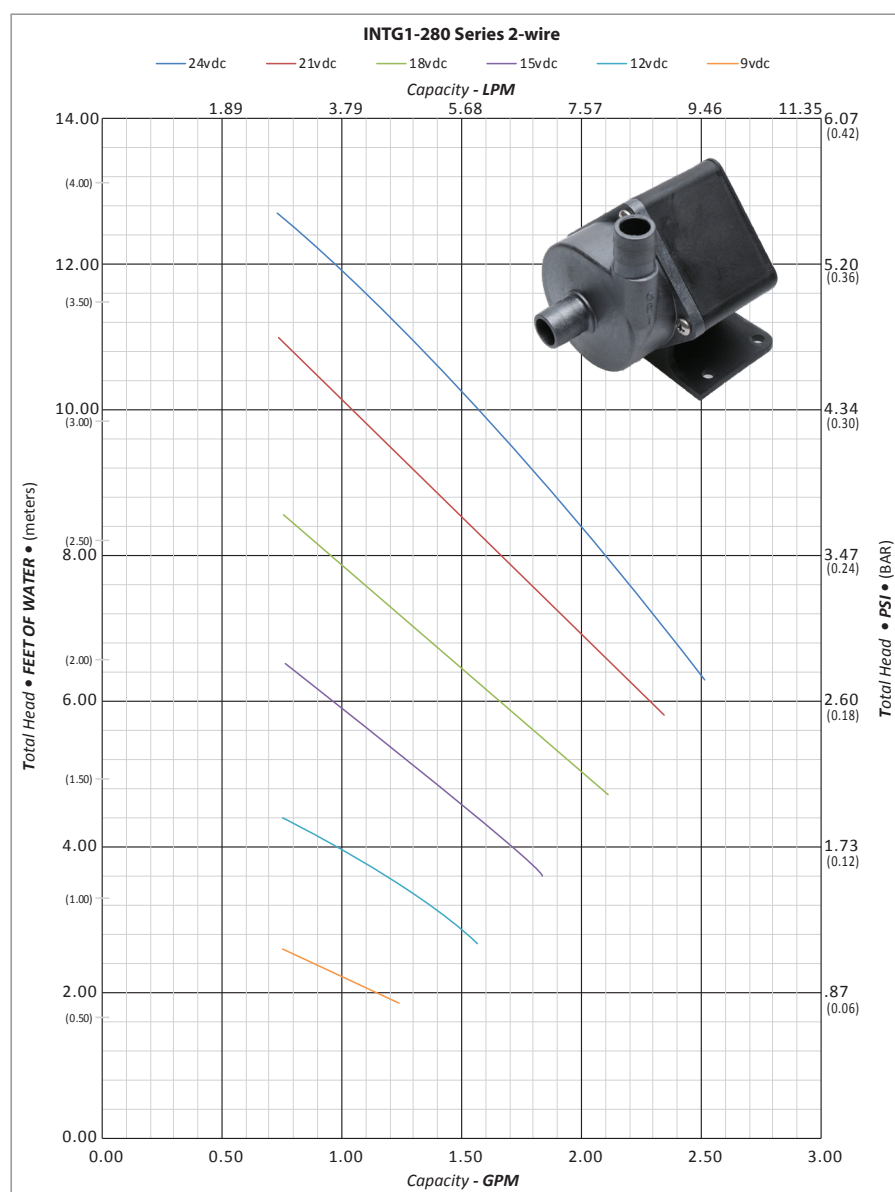
| Motor specifications  |
|---|
| <b>Motor:</b> Integrated, Brushless DC  |
| <b>Supply Voltage:</b> 12, 24, 12-24 VDC  |
| <b>Electronics Max Power:</b> 1.5 amps<br>It is recommended that the customer provide circuit over current protection to the pump.<br><b>1.5 amp fast acting fuse</b> is recommended.   |
| <b>Wiring Options</b> <ul style="list-style-type: none"> <li>• 2-wire</li> <li>• 3-wire: 0-5 volts (Reference DC NEG). Speed is controlled by a nominal 0-5 volt DC signal.</li> <li>• Tachometer feedback option available.</li> </ul> |

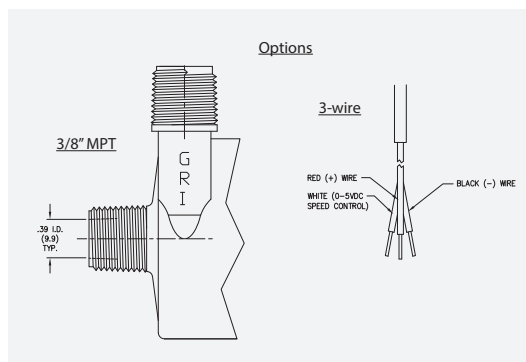
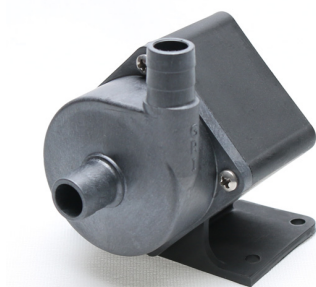
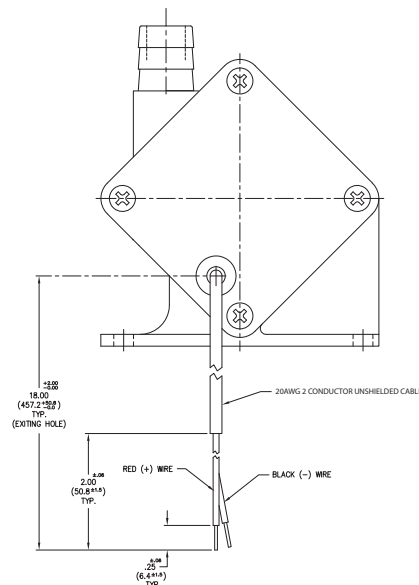
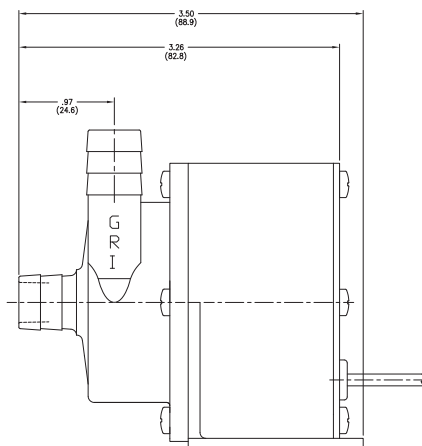
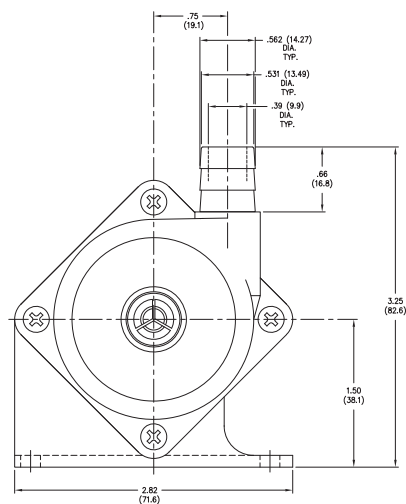
| Agency Approvals                    |
|-------------------------------------|
| <b>Contact GRI</b>                  |
| <b>Compliances</b>                  |
| RoHS 2 (2011/65/EC)<br>REACH (SVHC) |

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.**

| Voltage | Max Flow GPM (LPM) | Max Head Ft (PSI) (m) (BAR) |
|---------|--------------------|-----------------------------|
| 9-24    | 2.50 (9.50)        | 12.80 (5.5) (3.90) (0.36)   |





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

**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.

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