INTEGRITY series™

Tuned for performance, stability and longevity.

GRI® PUMPS
A GORMAN-RUPP COMPANY
The Pump People®

Welcome to the home of "The Pump People"…Gorman-Rupp Industries!

Thank you for considering Gorman-Rupp Industries and our Integrity Series line of magnetic drive circulation pumps.

Since 1953, over 65 years, GRI has served OEMs worldwide with custom-engineered pumps. When an off-the-shelf pump will not satisfy your pumping requirements, count on GRI Pumps to design a pump specific to your OEM application.

Quality begins at home. Located 10 miles south of Gorman-Rupp's corporate headquarters, the GRI Pumps division continues the legacy and unmatched quality that Gorman-Rupp has been known for since its founding by J.C. Gorman and Herb Rupp in 1933.

Made in the U.S.A. GRI designs and manufactures all products in our Bellville, Ohio, 98,000 square foot facility. Our vertical manufacturing, combined with 92% of our suppliers being U.S. based, allows GRI to proudly claim, "Made in the U.S.A!"

Allow us to answer any questions by contacting us through a phone call, email, or our website.

Call!: 419-886-3001 (We answer the phone!)

Email: grisales@gripumps.com

Online: www.GRIpumps.com/contact

Again, thank you for considering Gorman-Rupp Industries. We look forward to serving you!

MARKETS AND APPLICATIONS

GRI collaborates with OEM engineers, who are searching for fluid pumps in medium to large quantities, who are unable to fulfill their unique pump specifications with an off-the-shelf solution, and who require a custom-engineered pump specific to their application.

Alternative Energy
Prepared for the technological challenges with energy efficient pumping solutions.

Appliances
Long lasting, highly efficient, chemically resistant fluid circulation and metering pumps.

Chillers & Coolers
Leak-free, long-life, quiet operation and low power consumption.

Food & Beverage
Efficient, quiet, long-lasting, compact, NSF and FDA compliant pumps and components.

General Industrial
Designed to handle harsh fluids and chemicals in demanding high-pressure applications.

HVAC
Compact, quiet, leak-free, and energy efficient designs.

Laboratory & Analytical Instrumentation
Accurate, leak-free, chemically resistant OEM pumps.

Medical
Custom OEM pumps with accurate, chemically resistant, contamination-free designs.

Printing & Image Reproduction
Long lasting, leak-free, and accurate metering capabilities.

Server & Electronics Cooling
Leak-free, long-lasting, efficient pumps trusted around the world to safely pump fluid in critical applications.

Transportation
Compact, lightweight, long-lasting, hydraulically efficient OEM pumps.

GRI PUMPS
A GORMAN-RUPP COMPANY

INTEGRITY series™

Tuned for performance, stability and longevity.

Designed for the circulation and transfer of fluids, the Integrity Series line of pumps are engineered specifically for OEM customization and offer a unique addition to GRI's portfolio of magnetically driven centrifugal pumps.

Engineered with minimal parts, the motor and impeller components are integrated into a compact, lightweight design: fewer parts promote long life, quiet operation, and low power consumption.

Because of vertical integration, GRI manufactures the motors and the majority of the pump's components in-house. This provides our Engineering team the flexibility to precisely, and quickly, configure an Integrity Series pump to meet an OEM's specific flow and pressure requirements.

Specifying a pump to meet your requirements can be challenging. Please contact one of our Sales Team members to discuss your fluid pumping opportunity - whether it is customizing an existing pump or designing new.

INTG1 Brushless-DC Magnetic Drive

9-24 VDC
Maximum System Pressure: 50 PSI
Maximum Flow: 2.50 GPM; 9.46 LPM
Maximum Head: 12.80 feet; 5.5 PSI

INTG3 Brushless-DC Magnetic Drive

9-24 VDC
Maximum System Pressure: 75 PSI
Maximum Flow: 8.85 GPM, 33.5 LPM
Maximum Head: 58.0 FT, 25.00 PSI

INTG5 Brushless-DC Magnetic Drive

24-48 VDC
Maximum System Pressure: 75 PSI
Maximum Flow: 10.0 GPM; 37.8 LPM
Maximum Head: 75.0 feet; 32.0 PSI

INTG7 Brushless-DC Magnetic Drive

12-24, 48 VDC
Maximum System Pressure: 75 PSI
Maximum Flow: 22.0 GPM; 83.30 LPM
Maximum Head: 70.0 feet; 30.35 PSI

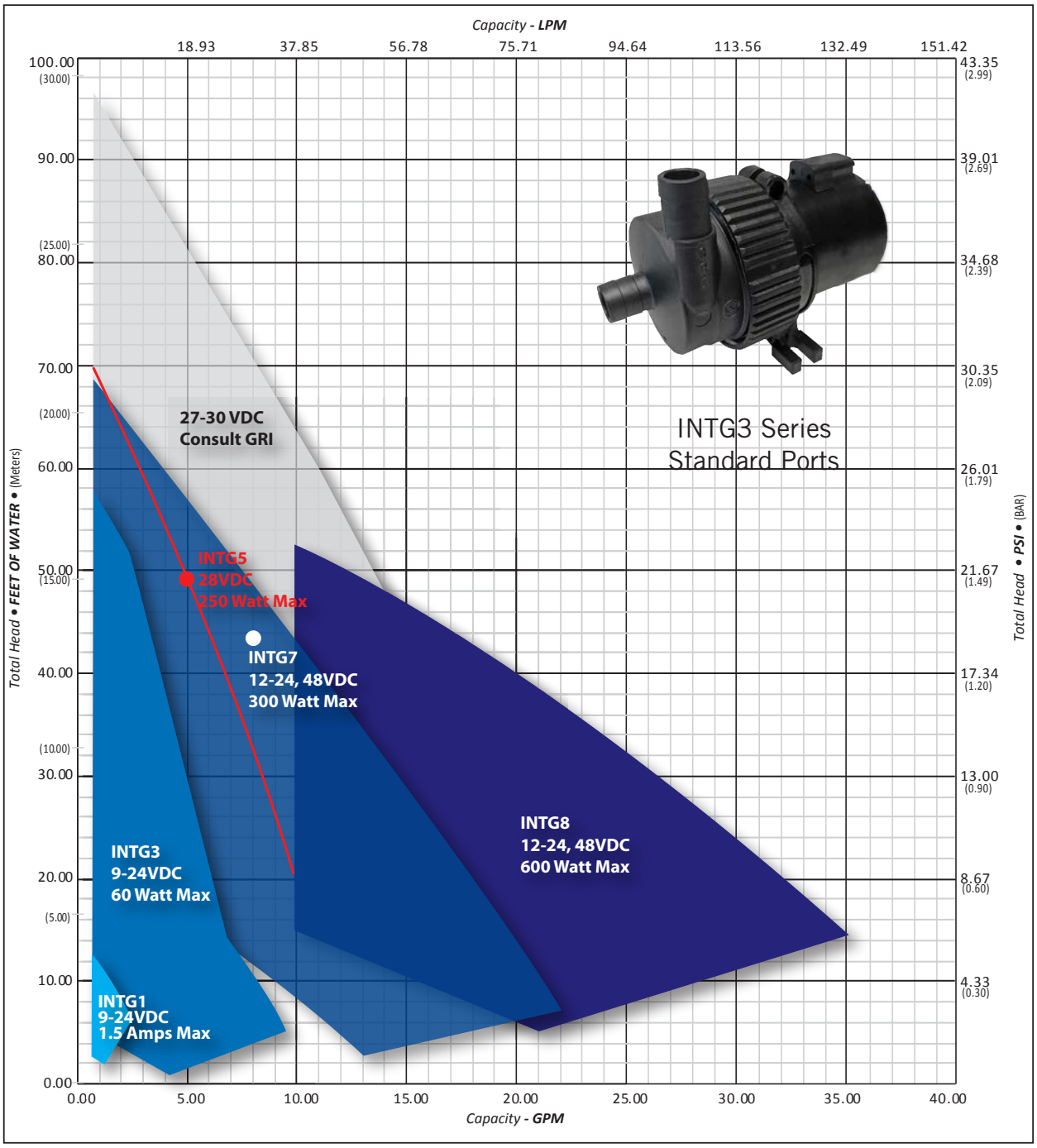
INTG8 Brushless-DC Magnetic Drive

12-24, 48 VDC
Maximum System Pressure: 75 PSI
Maximum Flow: 35.0 GPM; 133.00 LPM
Maximum Head: 61.0 feet; 26.00 PSI

GRI PUMPS
A GORMAN-RUPP COMPANY
The Pump People

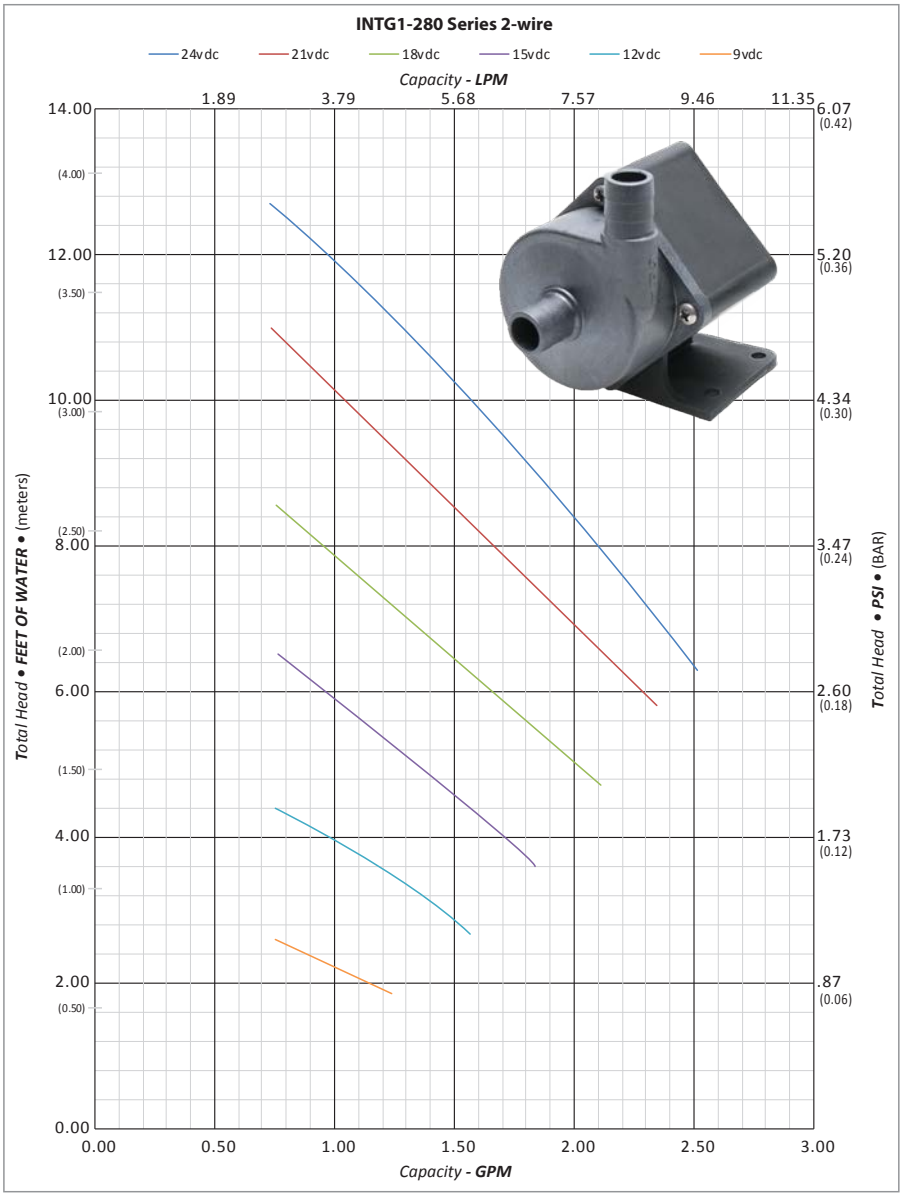
INTEGRITY series™

Integrated Magnetic Drive Circulation Pumps



INTG 1

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)



Specifications

Max. Fluid Temp: See Details Below

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	**Impeller Shaft:** Stainless Steel
Impeller: LCP	**Static O-Ring:** EPDM, FKM (Viton)
Housing: PP	

Motor specifications

Motor: Integrated, Brushless DC

Supply Voltage: 9-24, 24 VDC

Electronics Max Power: 1.5 amps
It is recommended that the customer provide circuit over current protection to the pump.

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.

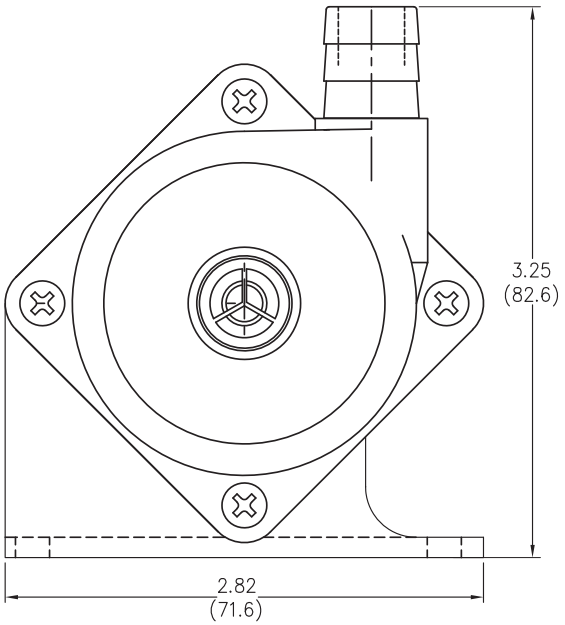
Do Not Run Pumps Dry. Pumps must be in a continuous flooded suction environment.

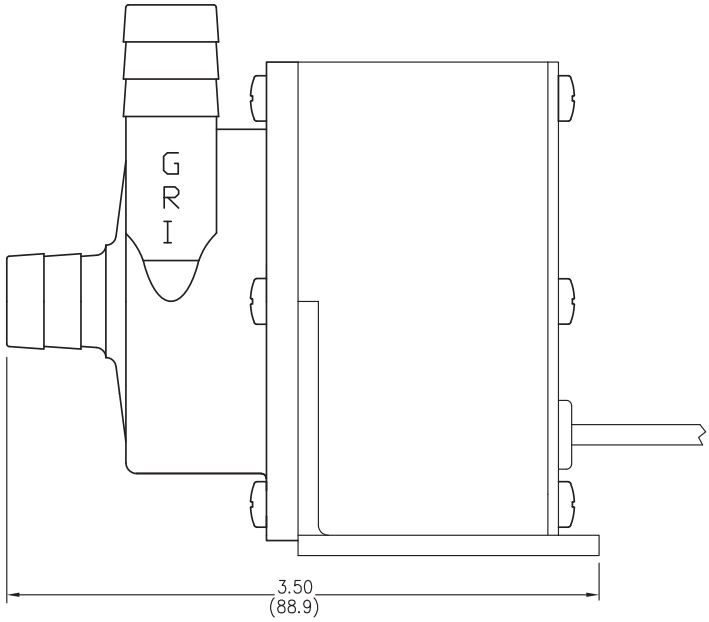
Integrity Series Maximum Fluid Rating Chart	
Controller Position	**Maximum Fluid Temperature Rating**
Separate from pump	225° F (107° C)
Within pump's housing	149° F (65° C)

Various *factors influence the recommended maximum temperature rating. These factors play a role in determining the pump's life and applied warranties. In some applications, a higher maximum fluid temperature rating may be warranted.

*Factors influencing maximum temperature rating include, but are not limited to:

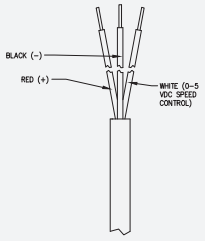
- Starting temperature of fluid in system
- Ambient Temperature
- Required performance, application's specificationsw
- Run time



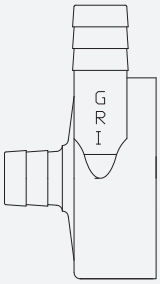


INTG1 Series Typical Dimensional Drawing. Many other OEM port options and configurations are available. Please contact GRI to discuss.

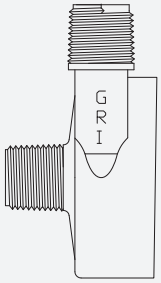
Base Model Options



3-wire



1/2"MHB



3/8"MPT

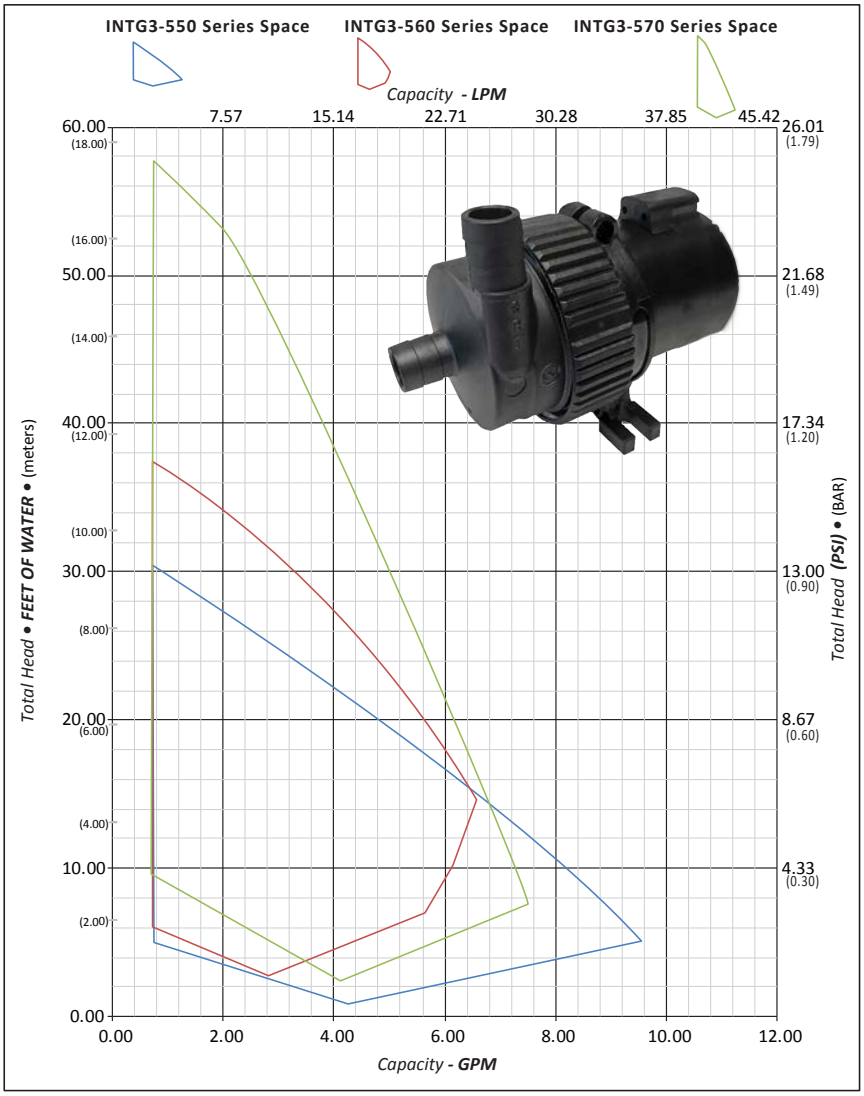
Model / O-Ring		Voltage	Wires	Max Flow GPM (LPM)	Max Head Ft. (PSI) (m)	Ports Inches
EPDM	FKM					
INTG1-280	INTG1-281	9-24	2-wire	2.50 (9.50)	12.80 (5.5) (3.90)	1/2 MHB
INTG1-284	INTG1-285	9-24	2-wire	2.50 (9.50)	12.80 (5.5) (3.90)	3/8 MPT
INTG1-380	INTG1-381	9-24	3-wire	2.50 (9.50)	12.80 (5.5) (3.90)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

Integrity Series Pumps are designed specifically for OEM customization. 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 a base model or designing new.

INTG 3

INTG3 Series	Voltage	Max Flow GPM (LPM)	Max Head Ft (PSI) (m) (BAR)
550 series	9-24	8.85 (33.5)	32.0 (13.9) (9.8) (0.96)
560 series	9-24	6.70 (25.4)	37.0 (16.0) (11.3) (1.10)
570 series	9-24	7.50 (28.4)	58.0 (25.1) (17.7) (1.73)



Specifications

Max. Fluid Temp: See Details Below

Max Sys. Pressure: 75 psi

Approx. Weight: .8 LBS (362.9 grams)

Ports: 1/2" MHB, 3/8" MPT
OEM Customization Available

Materials in contact with solution

Body: PPS (Ryton®)	**Housing:** PPS (Ryton®)
Impeller: PPS (Ryton®)	**Pump Shaft:** Ceramic
Static O-Ring: EPDM, FKM (Viton)	

Motor specifications

Motor: Integrated, Brushless DC

Supply Voltage: 9-24 VDC

Electronics Max Power: 60 Watts
It is recommended that the customer provide circuit over current protection to the pump.

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

UL778: Motor-operated Water Pumps
NSF 61: Potable Water
NSF 372: Lead Content

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.

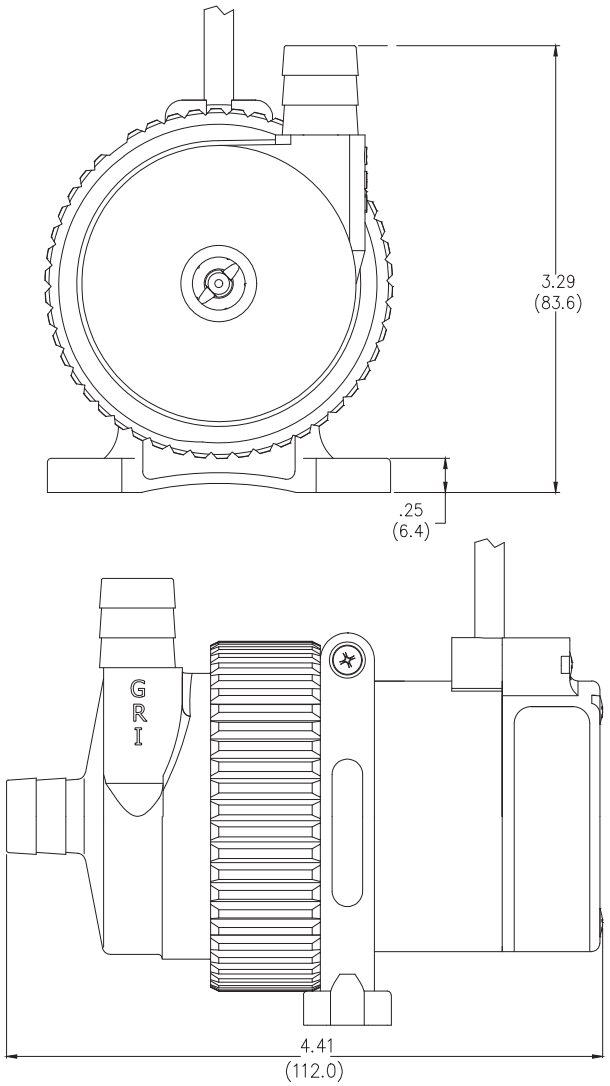
Integrity Series Maximum Fluid Rating Chart	
Controller Position	**Maximum Fluid Temperature Rating**
Separate from pump	225° F (107° C)
Within pump's housing	149° F (65° C)

Various *factors influence the recommended maximum temperature rating. These factors play a role in determining the pump's life and applied warranties. In some applications, a higher maximum fluid temperature rating may be warranted.

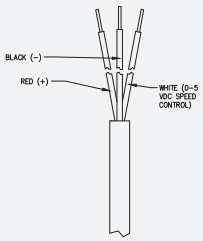
*Factors influencing maximum temperature rating include, but are not limited to:

- Starting temperature of fluid in system
- Ambient Temperature
- Required performance, application's specifications
- Run time

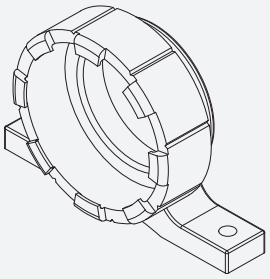
INTG 3



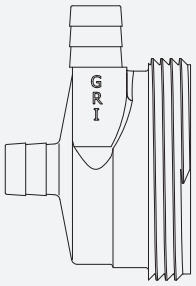
Base Model Options



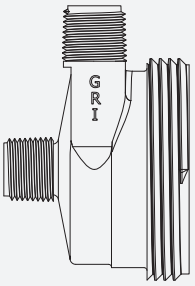
3-wire



Neoprene Rubber Base



1/2"MHB



3/8"MPT

INTG3 Series Typical Dimensional Drawing.
Many other OEM port options and configurations are available.
Please contact GRI to discuss.

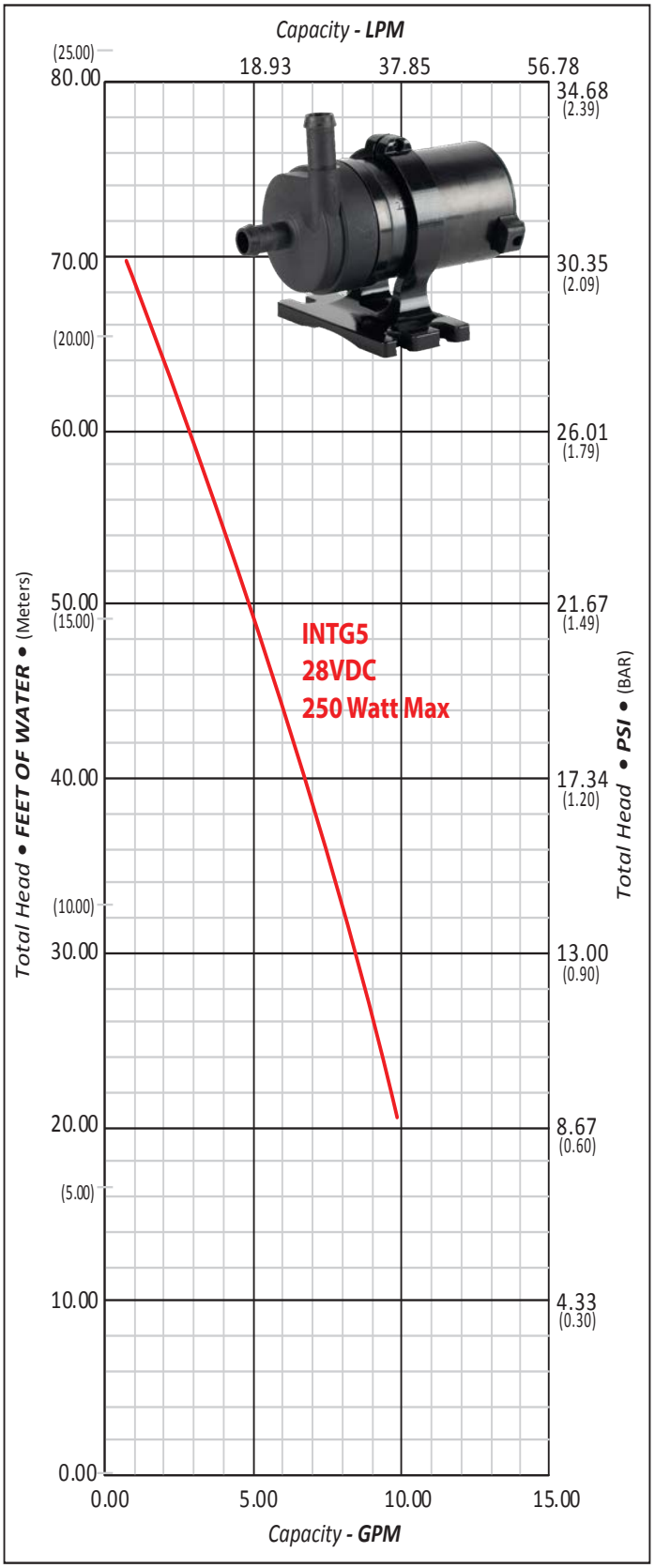
Model / O-Ring		Voltage	Wires	Max Flow GPM (LPM)	Max Head Ft. (PSI) (m)	Ports Inches
EPDM	FKM					
INTG3-560	INTG3-561	9-24	2-wire	6.70 (25.4)	37.00 (16.0) (11.3)	1/2 MHB
INTG3-562	INTG3-563	9-24	3-wire			
INTG3-564	INTG3-565	9-24	2-wire	6.70 (25.4)	37.00 (16.0) (11.3)	3/8 MPT
INTG3-566	INTG3-567	9-24	3-wire			
INTG3-570	INTG3-571	9-24	2-wire	7.50 (28.4)	58.00 (25.1) (17.7)	1/2 MHB
INTG3-572	INTG3-573	9-24	3-wire			
INTG3-574	INTG3-575	9-24	2-wire	7.50 (28.4)	58.00 (25.1) (17.7)	3/8 MPT
INTG3-576	INTG3-577	9-24	3-wire			

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.
Connectors: MHB = Male Hose Barb; MPT = Male Pipe Thread | **O-Ring Material:** EPDM = Ethylene Propylene Diene Monomer, FKM = Fluoroelastomer.

Integrity Series Pumps are designed specifically for OEM customization. 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 a base model or designing new.

INTG 5

Series	Voltage	Max Flow GPM (LPM)	Max Head Ft (PSI) (m) (BAR)
INTG5 series	24-48	10.0 (37.8)	75.0 (32.0) (23.0) (2.24)



Specifications

Max. Fluid Temp: See Details Below

Max Sys. Pressure: 75 psi

Approx. Weight: .8 LBS (362.9 grams)

Ports: 1/2" MHBT, 3/4" MHB, 7/8"-14 UNF
OEM Customization Available

Motor specifications

Motor: Integrated, Brushless DC

Supply Voltage: 24-48 VDC

Electronics Max Power: 250 Watts
It is recommended that the customer provide circuit over current protection to the pump.

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.

Materials in contact with solution

Body: PPS	**Housing:** PPS
Impeller: PPS	**Pump Shaft:** Stainless Steel

Agency Approvals (pending)

UL778: Motor-operated Water Pumps
NSF 61: Potable Water
NSF 372: Lead Content

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.

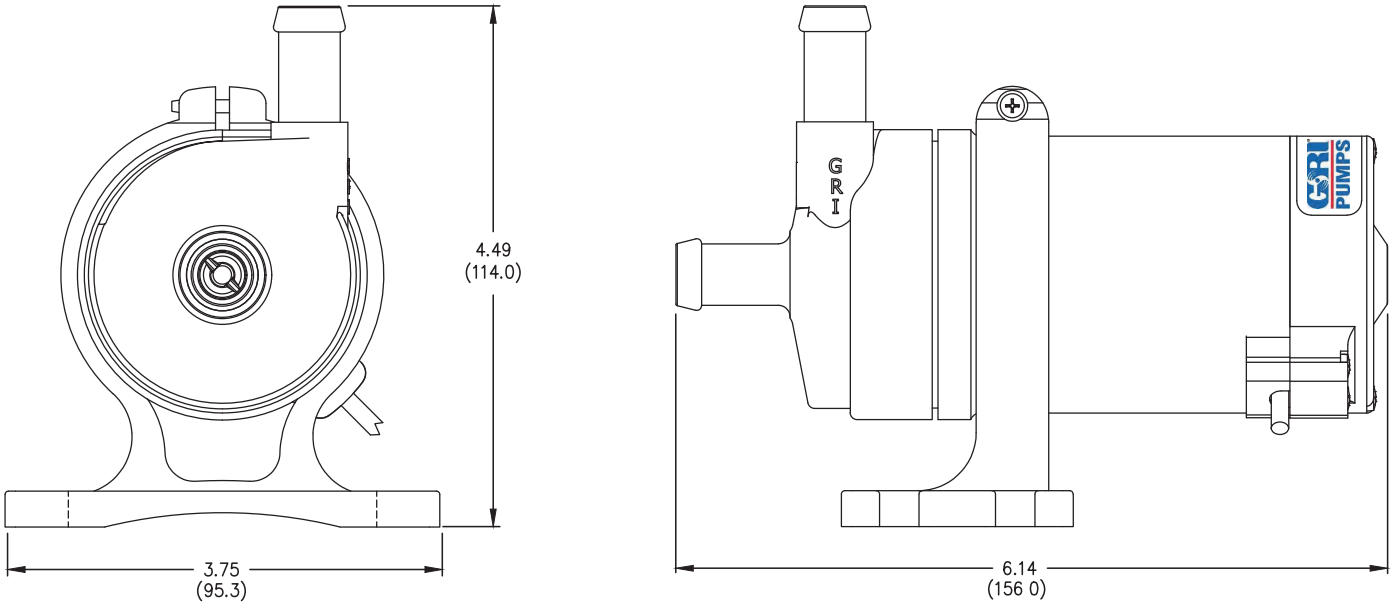
Do Not Run Pumps Dry. Pumps must be in a continuous flooded suction environment.

Integrity Series Maximum Fluid Rating Chart	
Controller Position	**Maximum Fluid Temperature Rating**
Separate from pump	225° F (107° C)
Within pump's housing	149° F (65° C)

Various *factors influence the recommended maximum temperature rating. These factors play a role in determining the pump's life and applied warranties. In some applications, a higher maximum fluid temperature rating may be warranted.

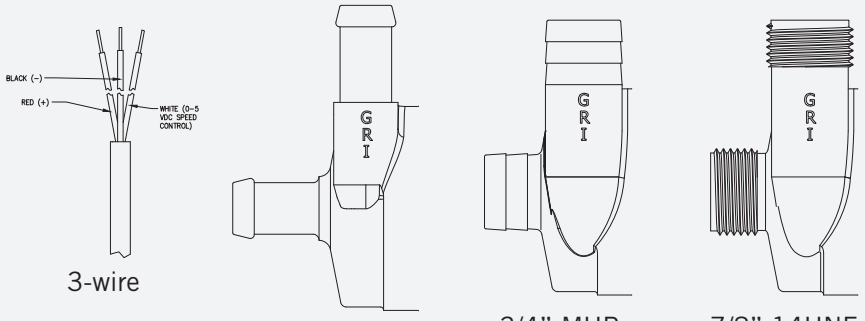
*Factors influencing maximum temperature rating include, but are not limited to:

- Starting temperature of fluid in system
- Ambient Temperature
- Required performance, application's specifications
- Run time



INTG5 Series Typical Dimensional Drawing.
Many other OEM port options and configurations are available. Please contact GRI to discuss.

Base Model Options

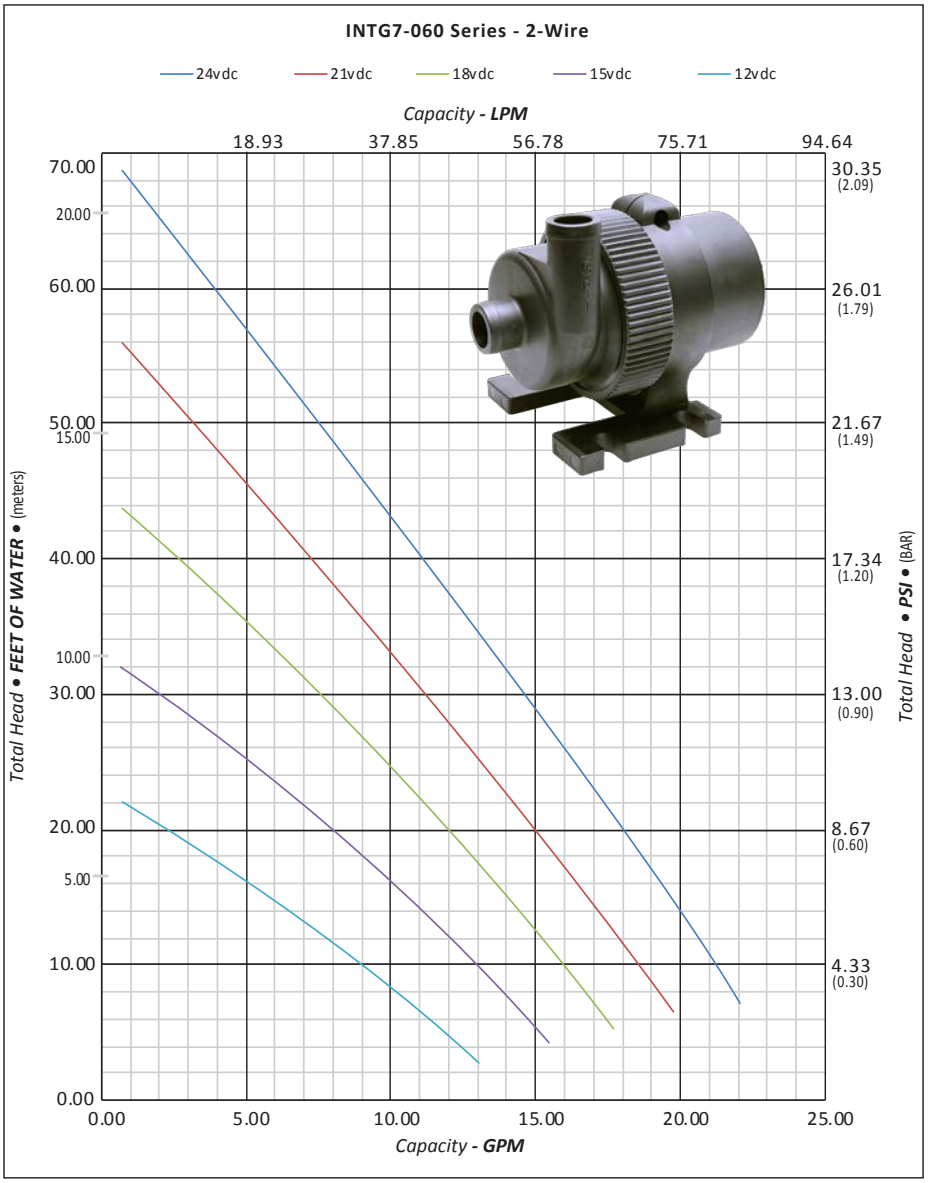


3-wire | 1/2" MHBT | 3/4" MHB | 7/8" 14UNF

Integrity Series Pumps are designed specifically for OEM customization. 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 a base model or designing new.

INTG 7

Series	Voltage	Max Flow GPM (LPM)	Max Head Ft. (PSI) (m)
INTG7 series	12-24, 48	22.00 (83.3)	70.00 (30.3) (21.3)



Specifications

Max. Fluid Temp: See Details Below

Max Sys. Pressure: 75 psi

Approx. Weight: 3.52 lbs (1596.645 grams)

Ports: 1" MHB

Materials in contact with solution

Body: PPS (Ryton®)	**Housing:** PPS (Ryton®)
Impeller: PPS (Ryton®)	**Pump Shaft:** Ceramic
Static O-Ring: EPDM, FKM (Viton)	

Motor specifications

Motor: Integrated, Brushless DC

Supply Voltage: 12-24,48 VDC

Electronics Max Power: 300 Watts
It is recommended that the customer provide circuit over current protection to the pump.

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.

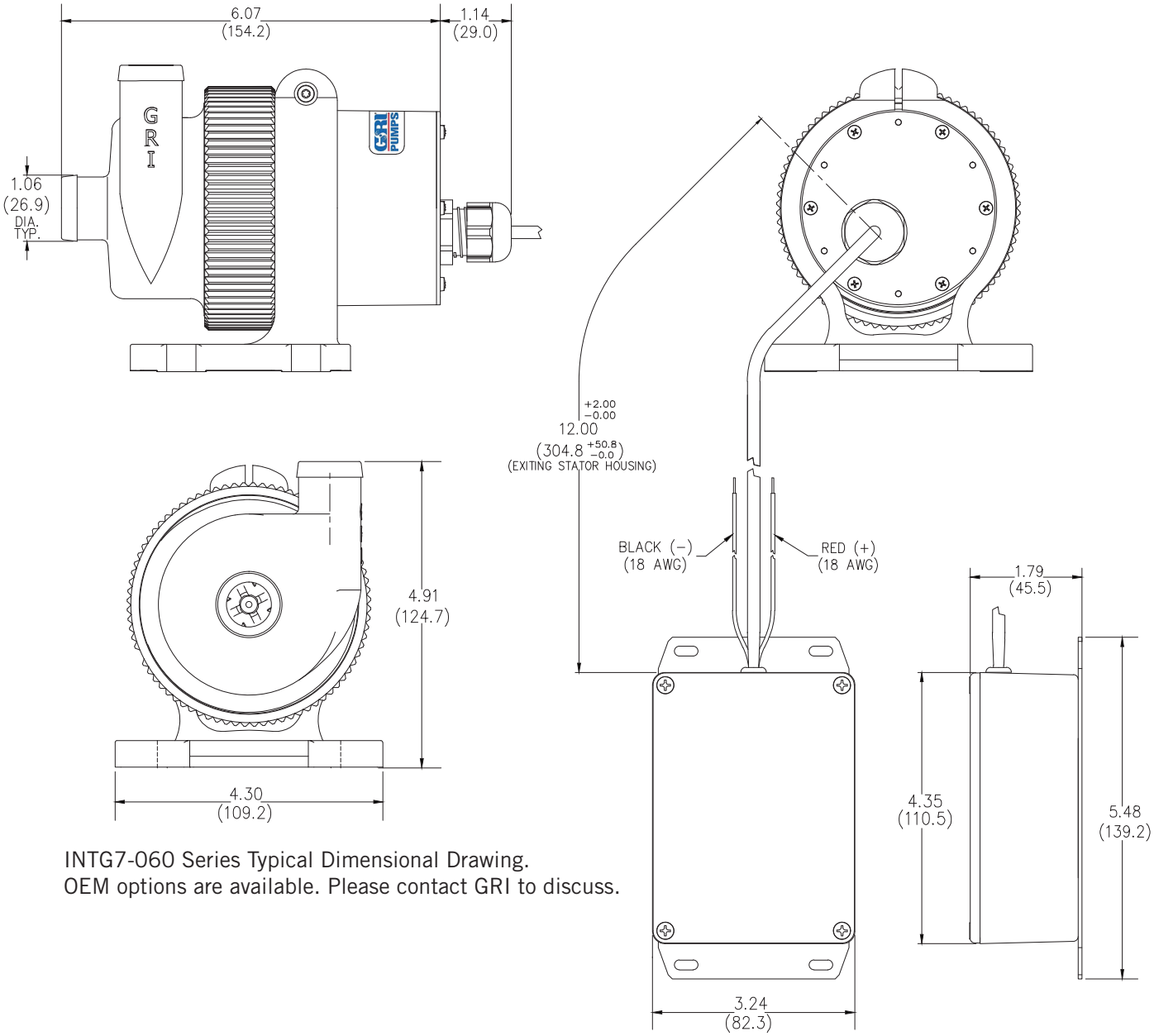
Do Not Run Pumps Dry. Pumps must be in a continuous flooded suction environment.

Integrity Series Maximum Fluid Rating Chart	
Controller Position	**Max. Fluid Temp. Rating**
Seperate from pump	225° F (107° C)
Within pump's housing	149° F (65° C)

Various *factors influence the recommended maximum temperature rating. These factors play a role in determining the pump's life and applied warranties. In some applications, a higher maximum fluid temperature rating may be warranted.

*Factors influencing maximum temperature rating include, but are not limited to:

- Starting temperature of fluid in system
- Ambient Temperature
- Required performance, application's specifications
- Run time



INTG7-060 Series Typical Dimensional Drawing.
OEM options are available. Please contact GRI to discuss.

Model / O-Ring		Voltage	Wires	Max Flow GPM (LPM)	Max Head Ft. (PSI) (m)	Ports Inches
EPDM	FKM					
INTG7-060	INTG7-061	12-24, 48	2-wire	22.00 (83.3)	70.00 (30.3) (21.3)	1" MHB
INTG7-062	INTG7-063	24, 48	3-wire	22.00 (83.3)	70.00 (30.3) (21.3)	1" MHB

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.
Connectors: MHB = Male Hose Barb
O-Ring Material: EPDM = Ethylene Propylene Diene Monomer, FKM = Fluoroelastomer.

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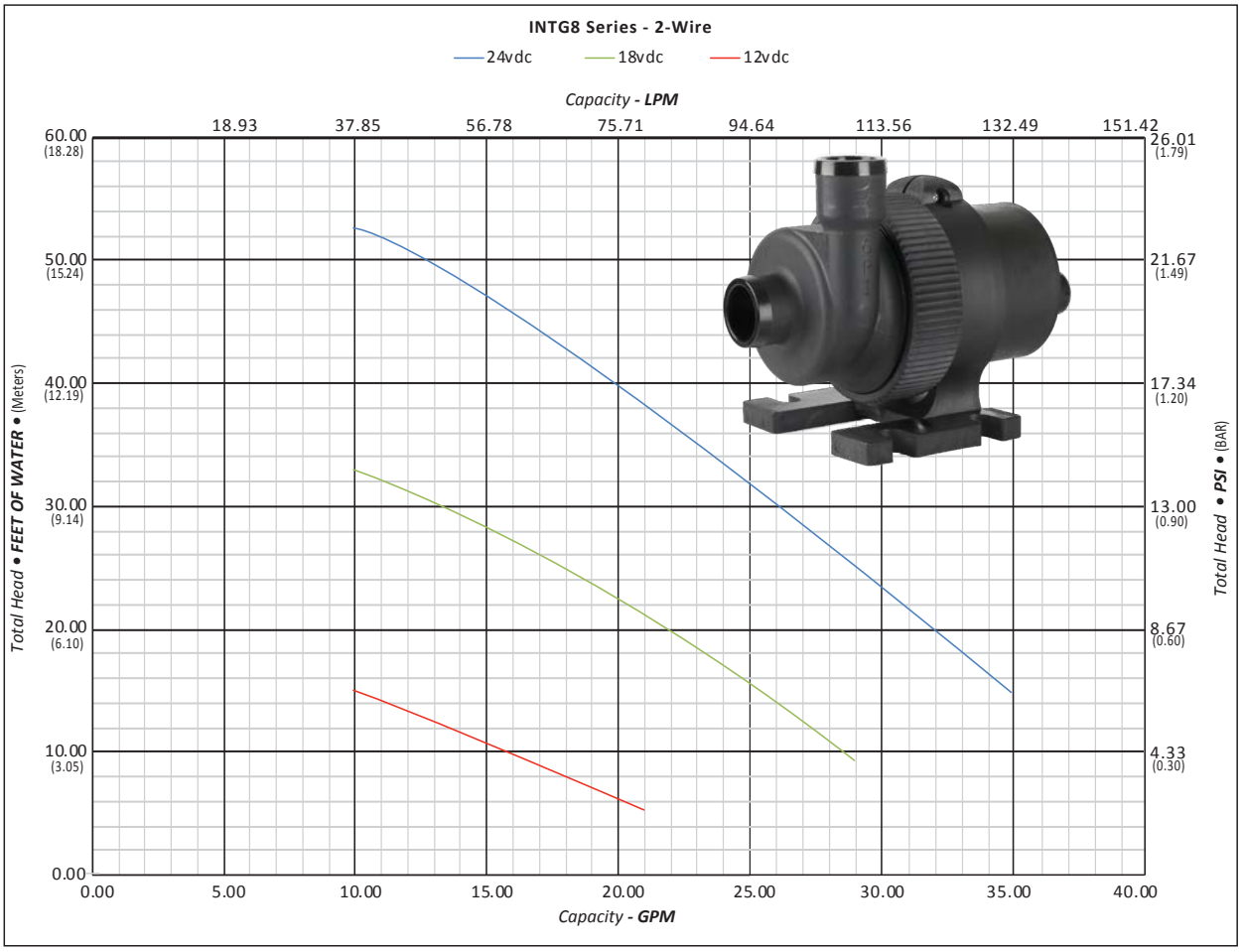
INTG 8

Series	Voltage	Max Flow GPM (LPM)	Max Head Ft (PSI) (m) (BAR)
INTG8 series	12-24, 48	35.0 (133.00)	61.0 (26.0) (18.7) (1.83)



Specifications
Max. Fluid Temp: See Details Below
Max Sys. Pressure: 75 psi
Approx. Weight: Approx. 3.5 lbs (1596.645 grams)
Ports: 1.25" MHB

Agency Approvals	Compliances
Contact GRI	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.

Materials in contact with solution	
Body: PPS (Ryton®)	**Housing:** PPS (Ryton®)
Impeller: PPS (Ryton®)	**Pump Shaft:** Ceramic
Static O-Ring: EPDM, FKM (Viton)	

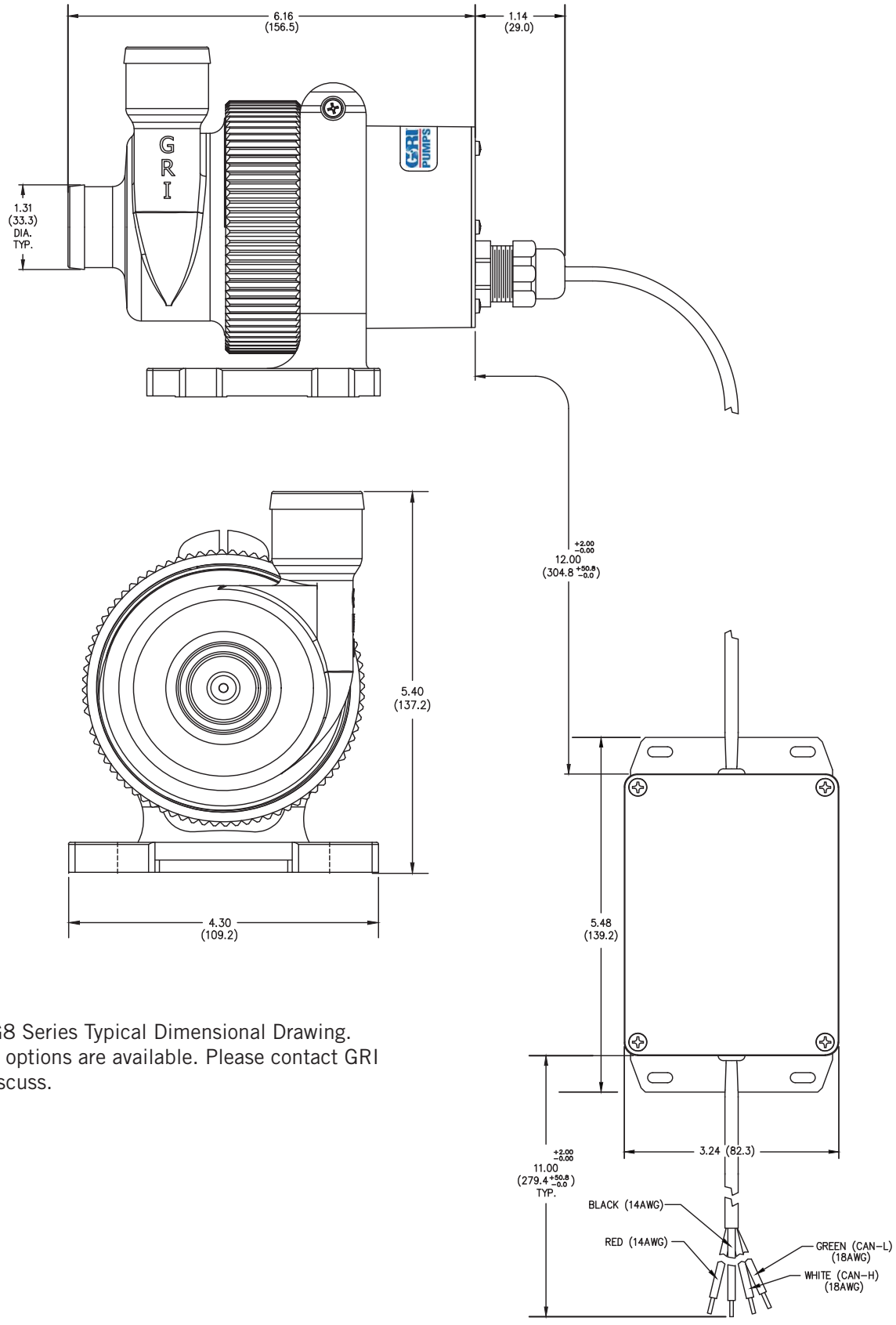
Integrity Series Maximum Fluid Rating Chart	
Controller Position	**Max. Fluid Temp. Rating**
Seperate from pump	225° F (107° C)
Within pump's housing	149° F (65° C)

Various *factors influence the recommended maximum temperature rating. These factors play a role in determining the pump's life and applied warranties. In some applications, a higher maximum fluid temperature rating may be warranted.

*Factors influencing maximum temperature rating include, but are not limited to:

- Starting temperature of fluid in system
- Ambient Temperature
- Required performance, application's specifications
- Run time

Motor specifications
Motor: Integrated, Brushless DC
Supply Voltage: 12-24, 48 VDC
Electronics Max Power: 600 Watts It is recommended that the customer provide circuit over current protection to the pump.
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.



INTG8 Series Typical Dimensional Drawing.
OEM options are available. Please contact GRI to discuss.

Integrity Series Pumps are designed specifically for OEM customization. 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 a base model or designing new.