

Tuned for performance, stability and longevity.





A GORMAN-RUPP COMPANY The Pump People.



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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 highpressure 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.





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

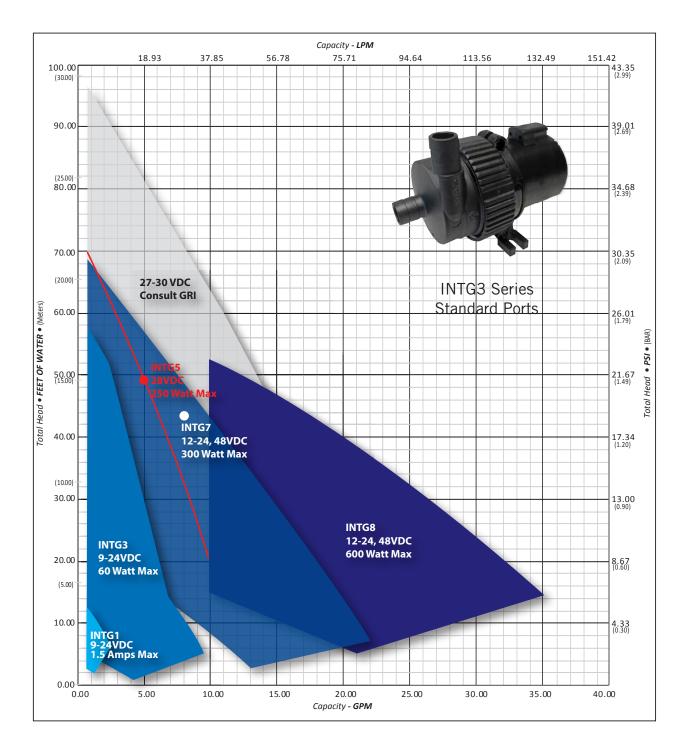


INTG8 Brushless-DC Magnetic Drive

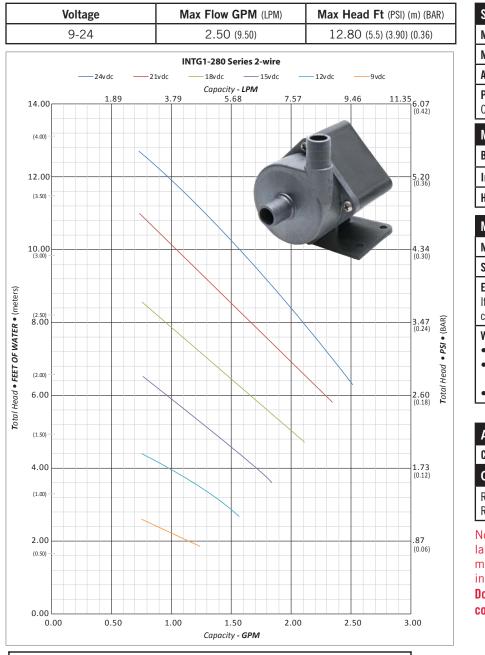
12-24, 48 VDC Maximum System Pressure: 75 PSI Maximum Flow: 35.0 GPM; 133.00 LPM Maximum Head: 61.0 feet; 26.00 PSI



INTEGRITY Integrated Magnetic Drive Circulation Pumps







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)			

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					
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	Specifications				
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OEM Customization AvailableMaterials in contact with solutionBody: LCPImpeller Shaft: Stainless SteelImpeller: LCPStatic O-Ring: EPDM, FKM (Viton)Housing: PPMotor specificationsMotor specificationsMotor: Integrated, Brushless DCSupply Voltage: 9-24, 24 VDCElectronics Max Power: 1.5 ampsIt is recommended that the customer provide circuit over current protection to the pump.Wiring Options • 2-wire	Approx. Weight				
Materials in contact with solutionBody: LCPImpeller Shaft: Stainless SteelImpeller: LCPStatic O-Ring: EPDM, FKM (Viton)Housing: PPMotor specificationsMotor specificationsMotor: Integrated, Brushless DCSupply Voltage: 9-24, 24 VDCElectronics Max Power: 1.5 ampsIt is recommended that the customer provide circuit over current protection to the pump.Wiring Options • 2-wire	Ports: 1/2" MHE				
Body: LCPImpeller Shaft: Stainless SteelImpeller: LCPStatic O-Ring: EPDM, FKM (Viton)Housing: PPMotor specificationsMotor: Integrated, Brushless DCSupply Voltage: 9-24, 24 VDCElectronics Max Power: 1.5 ampsIt is recommended that the customer provide circuit over current protection to the pump.Wiring Options • 2-wire	OEM Customiza				
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	Materials in c				
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	Body: LCP				
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	Impeller: LCP				
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	Housing: PP				
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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					
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circuit over current protection to the pump. Wiring Options • 2-wire					
Wiring Options • 2-wire	· · ·				
• 2-wire	· · · ·				
• 3-WILE: 0-3 VOILS (Reference DC NEG). Speed IS					
controlled by a nominal 0-5 volt DC signal.					
• Tachometer feedback option available.					
· · · ·	controlled by				
	controlled by				
	controlled by • Tachometer				
Contact GRI	controlled by • Tachometer Agency App				

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.

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.

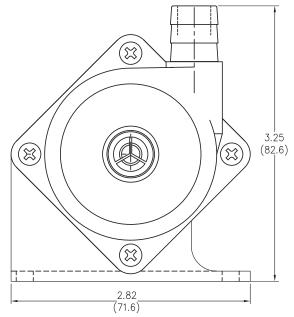
*Factors influencing maximum temperature rating include, but are not limited to:

[•]Starting temperature of fluid in system

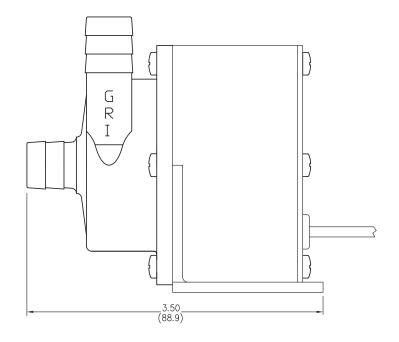
[•]Ambient Temperature

[•]Required performance, application's specificationsw •Run time

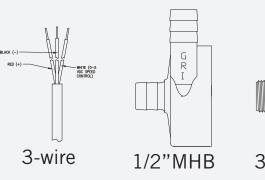


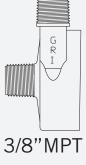


INTG1 Series Typical Dimensional Drawing. Many other OEM port options and configurations are available. Please contact GRI to discuss.



Base Model Options





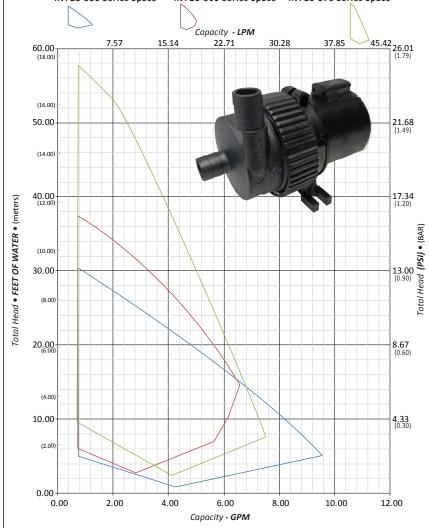
Model / O-Ring Voltage Wires Max Flow GPM Max Head Ft. Ports Inche						Ports Inches
EPDM	FKM	Vullage	WILES	(LPM)	(PSI) (m)	Pulls Inches
INTG1-280 INTG1-281 9-24 2-wire 2.50 (9.50) 12.80 (5.5) (3.90) 1/2 MHB						
INTG1-284 INTG1-285 9-24 2-wire 2.50 (9.50) 12.80 (5.5) (3.90) 3/8 MPT						
INTG1-380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



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)	
INTG3-5	50 Series Spac	e INTG3-560 Series Space	INTG3-570 Series Space	



	Capacity - GPM
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)

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			
ouppiy foliage. 5 24 100	Watta		
Electronics Max Power: 60	e customer provide circuit over		
Electronics Max Power: 60 It is recommended that the current protection to the pr Wiring Options	e customer provide circuit over		
Electronics Max Power: 60 It is recommended that the current protection to the pr Wiring Options • 2-wire	e customer provide circuit over ump.		
Electronics Max Power: 60 It is recommended that the current protection to the pr Wiring Options	e customer provide circuit over ump. ence DC NEG). Speed is		

Agency Approvals

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

Compliances

RoHS 2 (2011/65/EC) REACH (SVHC)

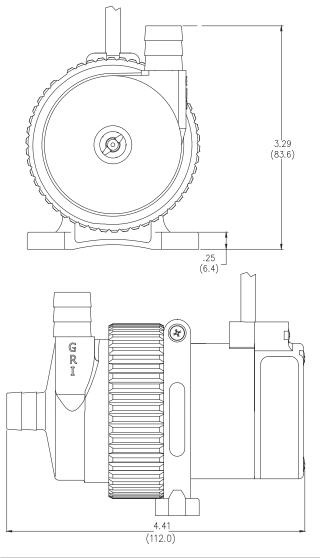
Note: Testing performed in a controlled laboratory environment. Actual performance may vary (+) or (-) 10% from the information shown. **Do Not Run Pumps Dry. Pumps must be in a continuous flooded suction environment.**

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

INTEGRITY



Base Model Options $i \rightarrow i$ $i \rightarrow i$

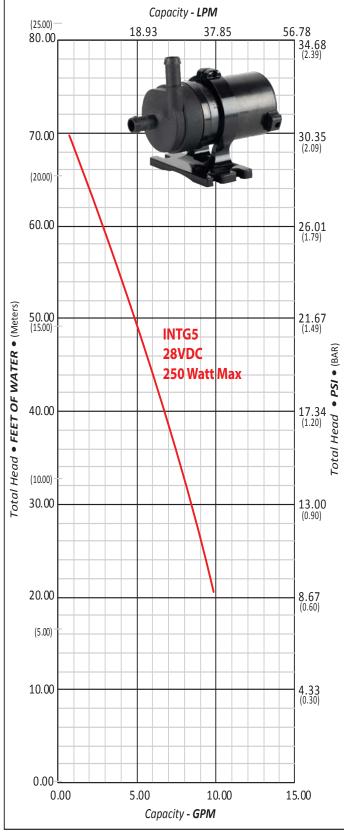
INTG3 Series Typical Dimensional Drawing. Many other OEM port options and configurations are available. Please contact GRI to discuss.

EPDM FKM Voltage Wires Max How of Million Max Head H. INTG3-560 INTG3-561 9-24 2-wire 6.70 37.00 (16.0) (11.3) INTG3-562 INTG3-565 9-24 2-wire 6.70 37.00 (16.0) (11.3) INTG3-564 INTG3-565 9-24 2-wire 6.70 37.00 (16.0) (11.3) INTG3-566 INTG3-567 9-24 2-wire 6.70 (16.0) (11.3) INTG3-570 INTG3-571 9-24 2-wire 7.50 58.00	Ports Inches
INTG3-562 INTG3-563 9-24 3-wire (25.4) (16.0) (11.3) INTG3-566 INTG3-567 9-24 2-wire 6.70 37.00 INTG3-566 INTG3-567 9-24 2-wire (25.4) (16.0) (11.3)	1/2 MHB
INTG3-564 INTG3-565 9-24 2-wire 6.70 (25.4) 37.00 (16.0) (11.3) INTG3-570 9-24 3-wire (25.4) (16.0) (11.3)	1/2 IVIHB
INTG3-566 INTG3-567 9-24 3-wire (25.4) (16.0) (11.3)	
	2/0 MDT
INTG3-570 INTG3-571 9-24 2-wire 7.50 58.00	3/8 MPT
7.50 50.00	1/2 MHB
INTG3-572 INTG3-573 9-24 3-wire (28.4) (25.1) (17.7)	1/2 INIHD
INTG3-574 INTG3-575 9-24 2-wire 7.50 58.00	3/8 MPT
INTG3-576 INTG3-577 9-24 3-wire (28.4) (25.1) (17.7)	

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



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)



WAX FILLI PODA	See Details Be	low
Max Sys. Pressur		10W
Approx. Weight: .		rrams)
Ports: 1/2" MHBT,	-	
OEM Customizatio	,	
Motor specifica	tions	
Motor: Integrated	, Brushless DC	,
Supply Voltage: 2	4-48 VDC	
Electronics Max P It is recommended to the pump.		ts omer provide circuit over current protection
 Wiring Options 2-wire 3-wire: 0-5 vol 0-5 volt DC sig Tachometer fe 	nal.	DC NEG). Speed is controlled by a nominal available.
Materials in co	ntact with so	lution
Body: PPS	Housing: Pl	28
Impeller: PPS	Pump Shaf	t: Stainless Steel
Agency Appr	ovals (pen	ding)
UL778: Motor-ope		
e o . motor ope	ratoa mator ra	
NSF 61: Potable V	later 🛛	
NSF 61: Potable V NSF 372: Lead Co	later ntent	
NSF 61: Potable W NSF 372: Lead Co Compliances	later ntent	
NSF 61: Potable V NSF 372: Lead Co	later ntent	
NSF 61: Potable W NSF 372: Lead Co Compliances RoHS 2 (2011/65/ REACH (SVHC) Note: Testing p Actual performation shown. Do Not Run Pump	later ntent EC) erformed in ance may va ps Dry. Pump	
NSF 61: Potable W NSF 372: Lead Co Compliances RoHS 2 (2011/65/ REACH (SVHC) Note: Testing p Actual performation shown. Do Not Run Pump suction environm	later ntent (EC) erformed in ance may va os Dry. Pump 1ent.	a controlled laboratory environmentary (+) or (-) 10% from the informa- s must be in a continuous flooded
NSF 61: Potable W NSF 372: Lead Co Compliances RoHS 2 (2011/65/ REACH (SVHC) Note: Testing p Actual performation shown. Do Not Run Pump suction environm	later ntent (EC) erformed in ance may va os Dry. Pump 1ent.	a controlled laboratory environmen ary (+) or (-) 10% from the informa-
NSF 61: Potable W NSF 372: Lead Co Compliances RoHS 2 (2011/65/ REACH (SVHC) Note: Testing p Actual performation shown. Do Not Run Pump suction environm	Vater Intent (EC) ance may va os Dry. Pump nent. grity Series	a controlled laboratory environment ary (+) or (-) 10% from the informa- s must be in a continuous flooded
NSF 61: Potable W NSF 372: Lead Co Compliances RoHS 2 (2011/65/ REACH (SVHC) Note: Testing p Actual performation shown. Do Not Run Pump suction environm	Vater Intent (EC) erformed in ance may va os Dry. Pump nent. grity Series Position	a controlled laboratory environment ary (+) or (-) 10% from the informa- is must be in a continuous flooded Maximum Fluid Rating Chart

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:

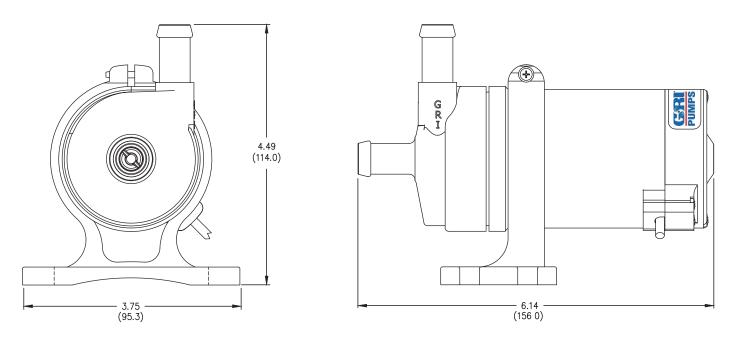
•Starting temperature of fluid in system

•Ambient Temperature

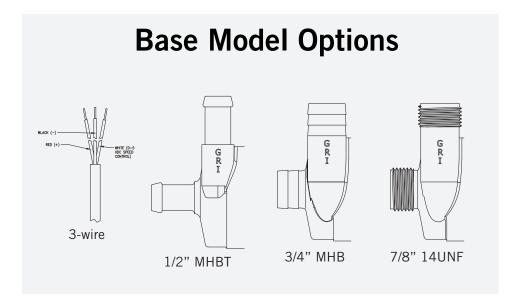
- •Required performance, application's specifications
- •Run time



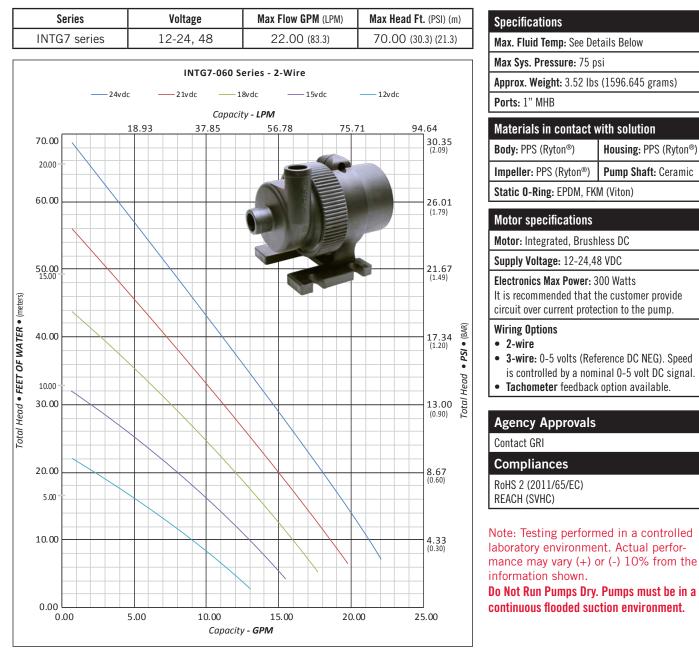




INTG5 Series Typical Dimensional Drawing. Many other OEM port options and configurations are available. Please contact GRI to discuss.







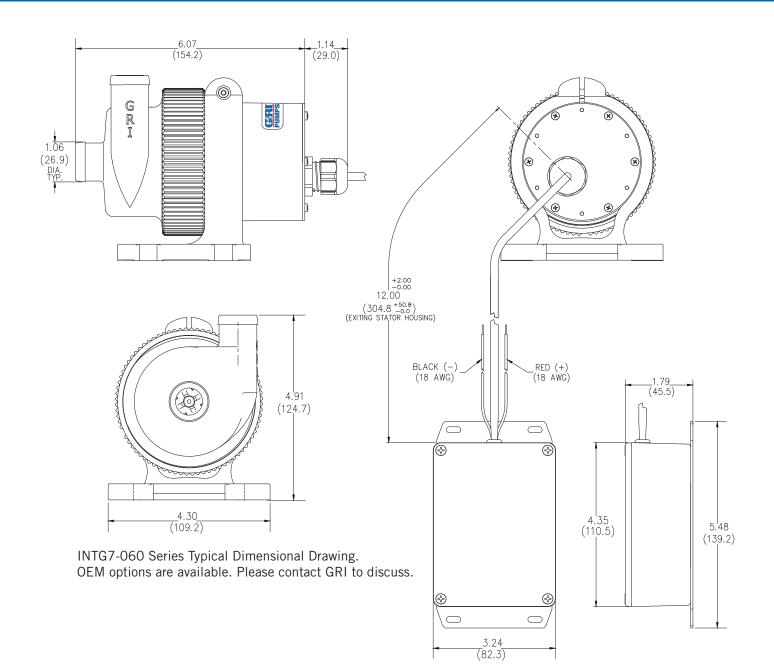
Integrity Series Maximum Fluid Rating Chart				
Controller Position	Max. Fluid Temp. Rating			
Seperate from pump	225° F (107° C)			
Within pump's housing	149° F (65° C)			
Within pump's housing	149° F (65° C)			

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





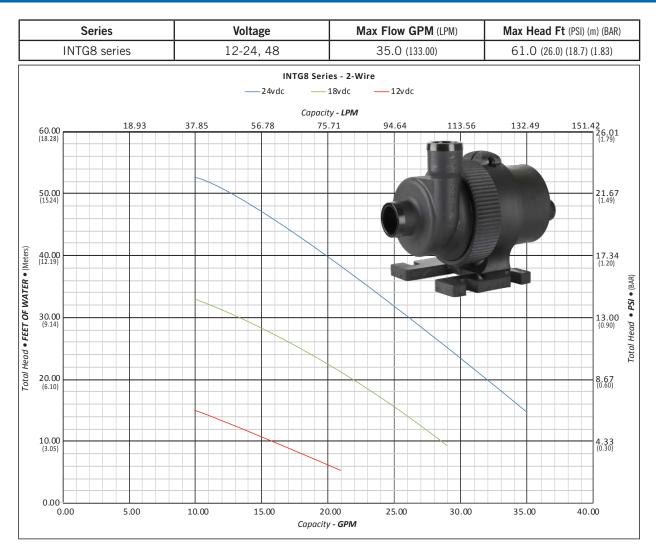
Model /	O-Ring	Voltago	Wires	Max Flow GPM	Max Head Ft.	Ports Inches
EPDM	FKM	Voltage	WILES	(LPM)	(PSI) (m)	FULLS INCIDES
INTG7-060	INTG7-061	12-24, 48	2-wire	22.00 (83.3)	70.00 (30.3) (21.3)	1" MHB
INTG7-062	INTG7-063	24, 48	3-wire	22.00 (83.3)	70.00 (30.3) (21.3)	1" MHB

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.

 $\textbf{Connectors:} \ \textbf{MHB} = \textbf{Male Hose Barb}$

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





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

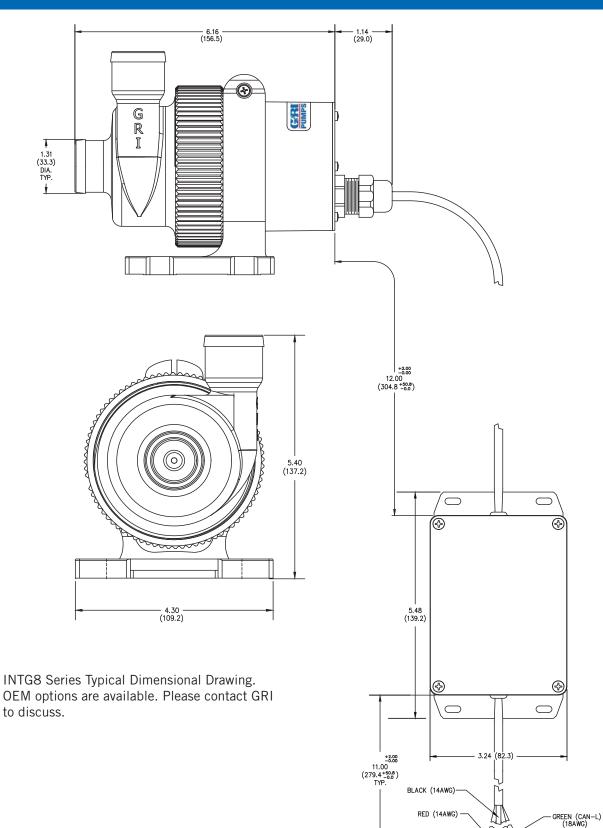
Electronics Max Power: 600 Watts It is recommended that the customer provide circuit over current protection to the pump.

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.





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.

WHITE (CAN-H) (18AWG)