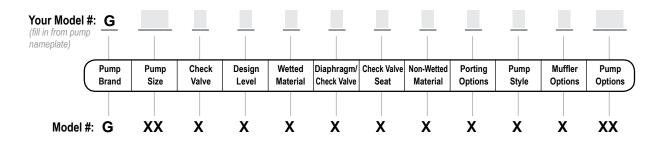
DATA SHEET Specifications & Performance



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Explanation of Pump Nomenclature



Pump Brand

G Natural Gas Operated

Pump Size

Check Valve Type B Ball

D Dali

Design Level 1 Design Level

Wetted Material

- s Stainless Steel
- A Aluminum

Diaphragm/Check Valve Materials

- B Nitrile/Nitrile
- T PTFE -Nitrile/PTFE
- V FKM/FKM
- 5 Nitrile/PTFE

Check Valve Seat

- T Virgin PTFE
- A Aluminum
- s Stainless Steel

Non-Wetted Material Options

- A Painted Aluminum
- B Unpainted Aluminum with Stainless Steel Gas Valve
- D Unpainted Aluminum with Stainless Steel Gas Valve with FKM O-rings
- X Unpainted Aluminum
- 0 Unpainted Aluminum/FKM Elastomer
- V Painted Aluminum/ FKM Elastomer

Porting Options

- N NPT Threads
- B BSP (Tapered) Threads
- R 150# Raised Face 1" ANSI Flange w/ Threaded Pipe Connections
- W 150# Welded Raised Face 1" ANSI Flanged Manifolds

Pump Style

- S Standard
- **Muffler Options**
- X No Muffler Permitted *

Your Serial #: (fill in from pump nameplate) _

ATEX Detail

II 2G c T5 II 2D c T100°C



q1fmdl1ds-rev0915



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1 • Model G1F Metallic

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Performance

G1F Metallic

SUCTION/DISCHARGE PORT SIZE • 1"

CAPACITY

• 0 to 45 gallons per minute (0 to 170 liters per minute)

GAS VALVE

No-lube, no-stall design

SOLIDS-HANDLING

- Up to .25 in. (6mm)
 HEADS UP TO
 100 psi or 231 ft. of water
- (7 bar or 70 meters)

MAXIMUM OPERATING PRESSURE

• 100 psi (7 bar)

DISPLACEMENT/STROKE

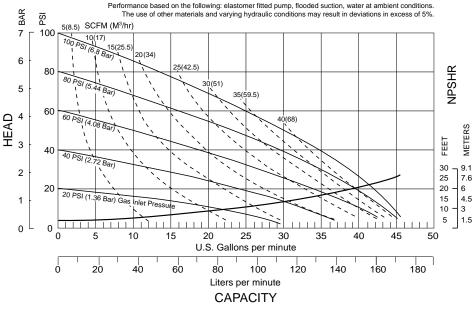
• .11 Gallon / .42 liter

SHIPPING WEIGHT

Aluminum 28 lbs. (13kg)

Stainless Steel 43 lbs. (20kg)

These pump models are designed to pump the following fluids: Crude Oil, Salt Water, Drilling Mud, Condensate, Lubrication Oils, Glycol, Caustic Liquids, and Acids."



Exhaust Gas: The exhausted natural gas must be vented to a low pressure safe location in accordance with local fire safety and environmental codes, or in the absence of local codes, an industry or nationally recognized code having jurisdiction over the specific installations, and/or CAN/CGA B149, Installation Codes

Materials

	Material Profile:	Operating Temperatures:		
	Material Frome.			
	CAUTION! Operating temperature limitations are as follows:	Max.	Min.	
	FKM: (Fluorocarbon) Shows good resistance to a wide range of oils and solvents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F(21°C)) will attack FKM.	350°F 177°C	-40°F -40°C	
	Nitrile: General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C	
	Virgin PTFE: (PFA/TFE) Chemically inert, virtually impervious. Very few chemicals are known to chemically react with PTFE; molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	220°F 104°C	-35°F -37°C	
	Maximum and Minimum Temperatures are the limits for which these materials can be operated. Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of the temperature ranges.			
	Metals:			
	Stainless Steel: Equal to or exceeding ASTM specification A743 CF-8M for corrosion			

resistant iron chromium, iron chromium nickel and nickel based alloy castings for general applications. Commonly referred to as 316 Stainless Steel in the pump industry.

For specific applications, always consult the Chemical Resistance Chart.

Ambient temperature range: Process temperature range: -20°C to +40°C -20°C to +80°C for models rated as category 1 equipment -20°C to +100°C for models rated as category 2 equipment

In addition, the ambient temperature range and the process temperature range do not exceed the operating temperature range of the applied non-metallic parts as listed in the manuals of the pumps.



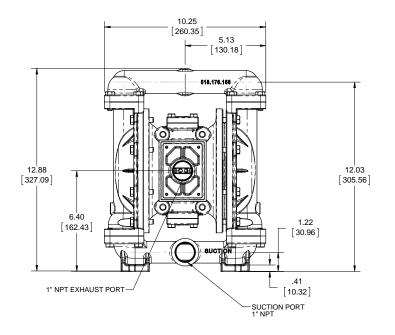
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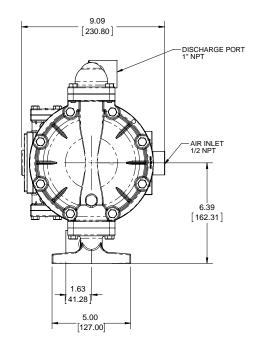
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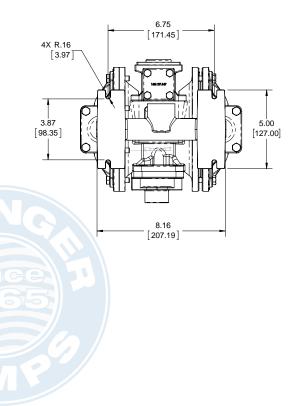
Dimensional Drawings

G1F Metallic - NPT

Dimensions in inches (mm dimensions in brackets). Dimensional Tolerance: $\pm 1/8$ " (± 3 mm) The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.







3 • Model G1F Metallic

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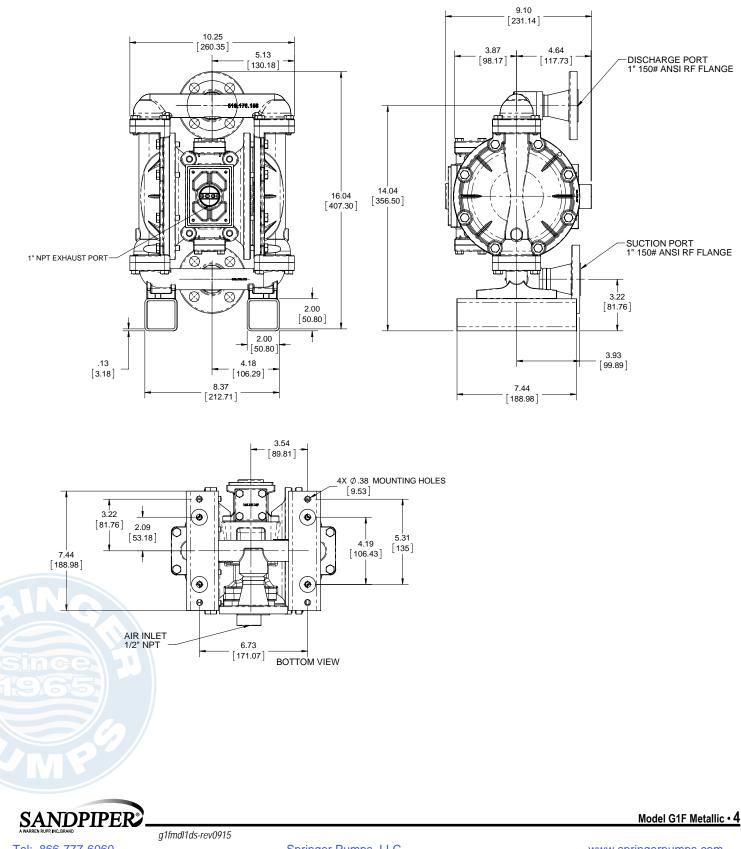
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SANDPIPER

Dimensional Drawings

G1F Metallic - ANSI Flange

Dimensions in inches (mm dimensions in brackets). Dimensional Tolerance:±1/8" (± 3mm) The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.



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5 - YEAR Limited Product Warranty

Warren Rupp, Inc. ("Warren Rupp") warrants to the original end-use purchaser that no product sold by Warren Rupp that bears a Warren Rupp brand shall fail under normal use and service due to a defect in material or workmanship within five years from the date of shipment from Warren Rupp's factory. Warren Rupp brands include Warren Rupp[®], SANDPIPER[®], MARATHON[®], PortaPump[®], SludgeMaster[™] and Tranquilizer[®].

> See sandpiperpump.com/content/warranty-certifications for complete warranty, including terms and conditions, limitations and exclusions. ~



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WARREN RUPP, INC.

EC / EU Declaration of Conformity

The objective of the declaration described is in conformity with the relevant Union harmonisation legislation: Directive 94/9/EC (until April 19, 2016) and Directive 2014/34/EU (from April 20, 2016).

Manufacturer:

Warren Rupp, Inc. A Unit of IDEX Corportion 800 North Main Street P.O. Box 1568 Mansfield, OH 44902 USA

Applicable Standard:

EN13463-1: 2001 EN13463-5: 2003 EN60079-25: 2004 Harmonised Standard: EN13463-1: 2009 EN13463-5: 2011 EN60079-25:2010

The harmonised standards have been compared to the applicable standards used for certification purposes and no changes in the state of the art technical knowledge apply to the listed equipment.

AODD Pumps and Surge Suppressors

Technical File No.: 203104000-1410/MER

AODD (Air-Operated Double Diaphragm) Pumps

EC Type Examination Certificate No. Pumps: KEMA 09ATEX0071 X

DEKRA Certification B.V. (0344) Meander 1051 6825 MJ Arnhem The Netherlands

Hazardous Locations Applied:

IM1 c	ll 1 G c T5
ll 2 G Ex ia c IIC T5	ll 1 D c T100°C
ll 2 D Ex c iaD 20 lP67 T100°C	ll 2 G c T5
ll 2 G Eex m c ll T5	ll 2 D c T100°C
ll 2 D c IP65 T100°C	



DATE/APPROVAL/TITLE: 18 March 2016

Tranquilizer[®] Roseberr

David Roseberry, Director of Engineering

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