DATA SHEET Specifications & Performance

Certified Quality









Environmental Management System ISO14001 Certified





Certified to CSA Technical Letter No, R-14



Certified to ANSI LC6-2008

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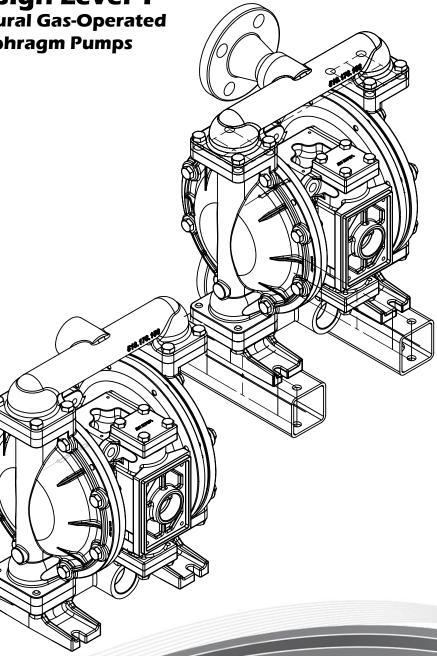


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Model G1F

Metallic

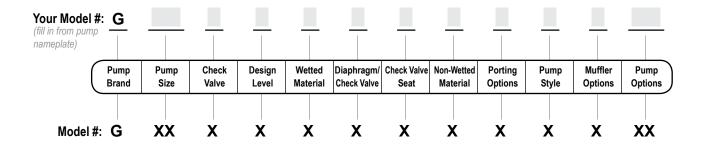






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Explanation of Pump Nomenclature



Pump Brand

G Natural Gas Operated

Pump Size

1F

Check Valve Type

B Ball

Design Level

1 Design Level

Wetted Material

- s Stainless Steel
- **A** Aluminum

Diaphragm/Check Valve Materials

- B Nitrile/Nitrile
- T PTFE -Nitrile/PTFE
- 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

Standard

Muffler Options

x No Muffler Permitted *

Your Serial #: (fill in from pump nameplate)

ATEX Detail





II 2G c T5 II 3/2 G c T5 II 2D c T100°C †

Models equipped with Wetted Options A or S, Non-Wetted Options A, B, D, X, 0, or V, Pump Option X.

Note: See ATEX Explanation of Type Examination Certificate



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)

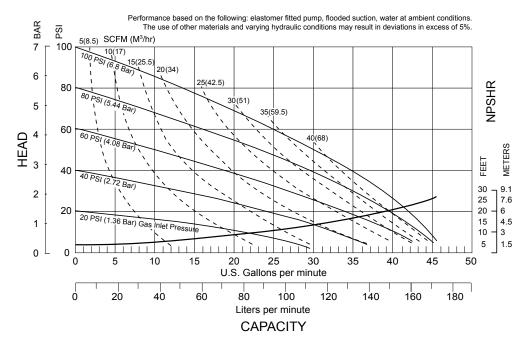
DISPLACEMENT/STROKE

.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:	
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: -20°C to +40°C

Process temperature range: -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.



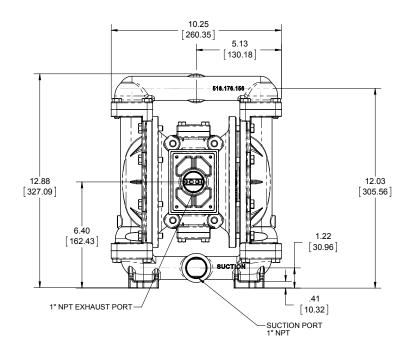
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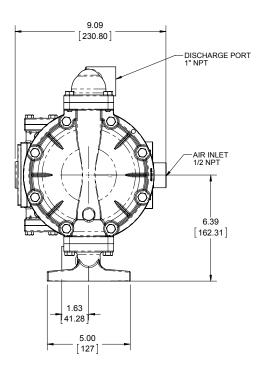
Dimensional Drawings

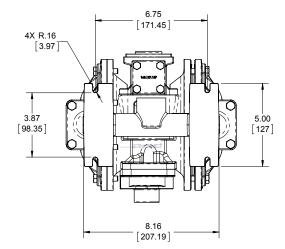
G1F Metallic - NPT

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.

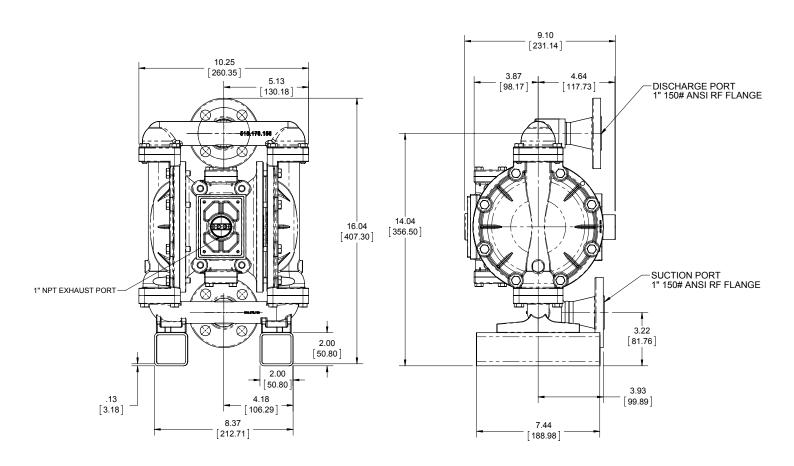


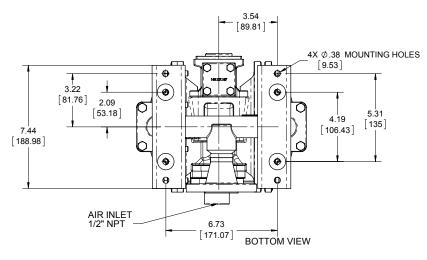




Dimensional Drawings

G1F Metallic - ANSI FlangeDimensions 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.





Written Warranty

5 - YEAR Limited Product Warranty

Quality System ISO9001 Certified • Environmental Management Systems ISO14001 Certified

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 SANDPIPER®, MARATHON®, PortaPump®, SludgeMaster™ and Tranquilizer®.

~ See complete warranty at www. sandpiperpump.com/About/guaranteesandwarranties.html ~

WARREN RUPP, INC.º

Declaration of Conformity

Manufacturer: Warren Rupp, Inc.®, 800 N. Main Street, P.O. Box 1568, Mansfield, Ohio, 44901-1568 USA

Certifies that Air-Operated Double Diaphragm Pump Series: HDB, HDF, M Non-Metallic, S Non-Metallic, M Metallic, S Metallic, T Series, G Series, U Series, EH and SH High Pressure, RS Series, W Series, SMA and SPA Submersibles, and Tranquilizer Surge Suppressors comply with the European Community Directive 2006/42/EC on Machinery, according to Annex VIII. This product has used Harmonized Standard EN809:1998+A1:2009, Pumps and Pump Units for Liquids - Common Safety Requirements, to verify conformance.

Signature of authorized person

David Roseberry

Printed name of authorized person

Revision Level: F

October 20, 2005

Date of issue

Engineering Manager

Title

August 23, 2012

Date of revision





WARREN RUPP, INC.®

EC Declaration of Conformity

In accordance with ATEX Directive 94/9/EC, Equipment intended for use in potentially explosive environments.

Manufacturer: Warren Rupp, Inc.®, A Unit of IDEX Corportion 800 North Main Street, P.O. Box 1568, Mansfield, OH 44901-1568 USA

EN 60079-25: 2004

For pumps equipped with Pulse Output ATEX Option KEMA Quality B.V. (0344)

AODD Pumps and Surge Suppressors

For Type Examination Designations

AODD (Air-Operated Double Diaphragm) Pumps

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

KEMA Quality B.V. Utrechtseweg 310

6812 AR Arnhem, The Netherlands

SANDPIPER

Applicable Standard:

EN13463-1: 2001, EN13463-5: 2003

Tranquilizer®



DATE/APPROVAL/TITLE: 27 MAY 2010

David Roseberry, Engineering Manager

ATEX Summary of Markings

Туре	Marking			Listed In	Non-Conductive Fluids
Pump types, S1F, S15, S20, and S30 provided with the pulse output option		II 2 G Ex ia c IIC T5 II 3/2 G Ex ia c IIC T5 II 2 D Ex c iaD 20 IP67 T100°C	KEMA 09ATEX0071 X CE 0344	KEMA 09ATEX0071 X KEMA 09ATEX0071 X KEMA 09ATEX0071 X	No Yes Yes
Pump types, S1F, S15, S20, and S30 provided with the integral solenoid option		II 2 G EEx m c II T5 II 3/2 G EEx m c II T5 II 2 D c IP65 T100°C	KEMA 09ATEX0071 X CE 0344	KEMA 09ATEX0071 X KEMA 09ATEX0071 X KEMA 09ATEX0071 X	No Yes Yes
Pump types, HDB1½, HDB40, HDB2, HDB50, HDB3, HDF1, HDF25, HDF2, HDF3M, PB¼, S05, S1f, S15, S20, S30, SB1, SB25, ST1½, ST40, G15, G20, and G30, without the above listed options, no aluminum parts	⟨£x⟩	II 1 G c T5 II 3/1 G c T5 II 1 D c T100°C I M1 c I M2 c		KEMA 09ATEX0071 X KEMA 09ATEX0071 X KEMA 09ATEX0071 X KEMA 09ATEX0071 X KEMA 09ATEX0072 X	No Yes Yes No Yes
Pump types, DMF2, DMF3, HDB1½, HDB40, HDB2, HDB50, HDB3, HDF1, HDF25, HDF2, HDF3M, PB½, S05, S1F, S15, S20, S30, SB1, S825, SE½, ST1, ST25, ST1½, ST40, U1F, G05, G1F, G15, G20, and G30		2 G c T5 3/2 G c T5 2 D c T100°C	KEMA 09ATEX0072 X CE	KEMA 09ATEX0072 X KEMA 09ATEX0072 X KEMA 09ATEX0072 X	No Yes Yes
Surge Suppressors all types		II 2 G T5 II 3/2 G T5 II 2 D T100°C	KEMA 09ATEX0073 CE	KEMA 09ATEX0073 KEMA 09ATEX0073 KEMA 09ATEX0073	No Yes Yes

EC Type Certificate No. Pumps: KEMA 09ATEX0071 X Type Certificate No. Pumps: KEMA 09ATEX0072 X Type Certificate No. Suppressors: KEMA 09ATEX0073