

DATA SHEET

Specifications & Performance

Certified Quality



Quality System
ISO 9001 Certified



Environmental Management System
ISO 14001 Certified



Certified to CSA Technical Letter No. R-14



Certified to ANSI LC6-2008



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A Unit of IDEX Corporation
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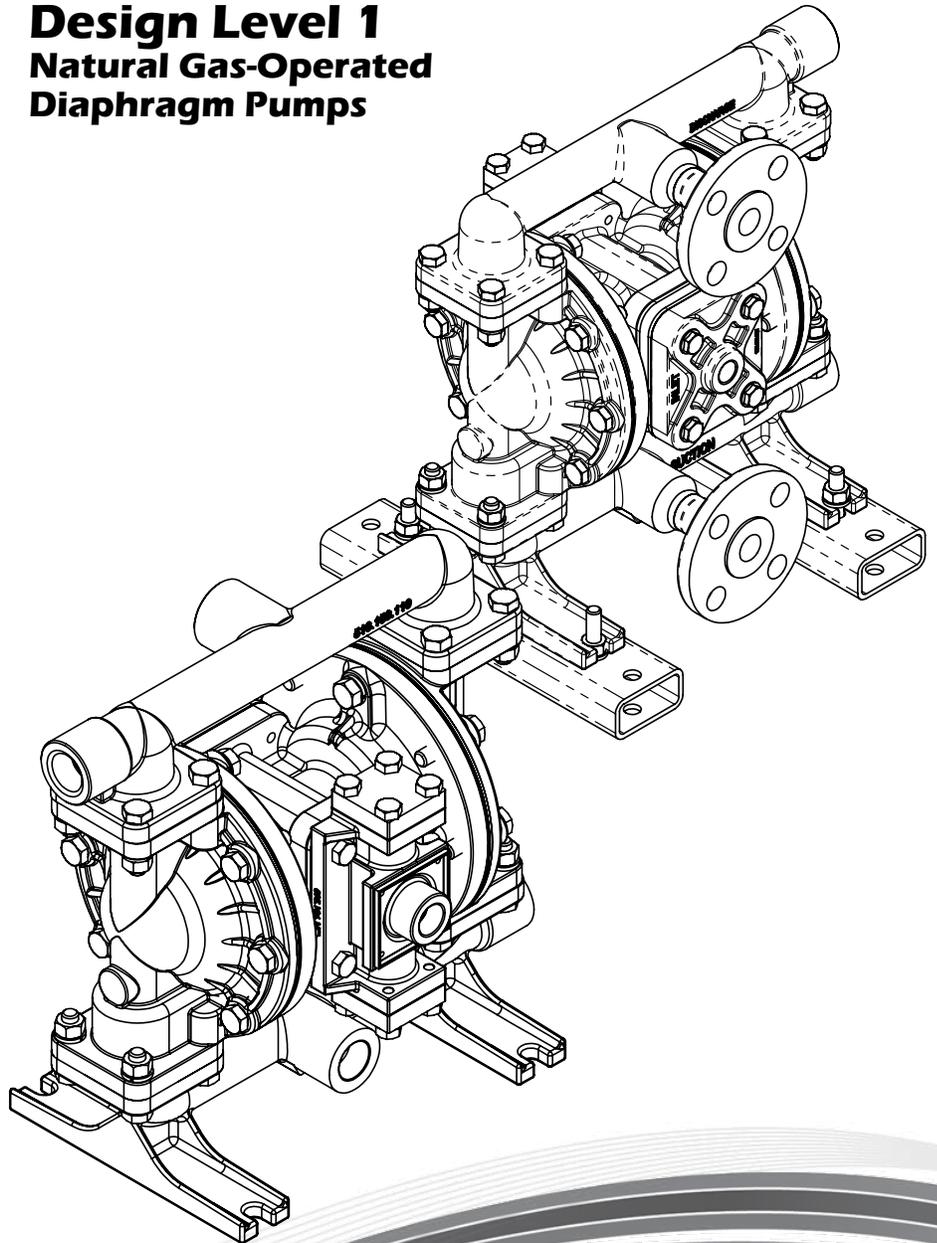
Model G05

Metallic

Design Level 1

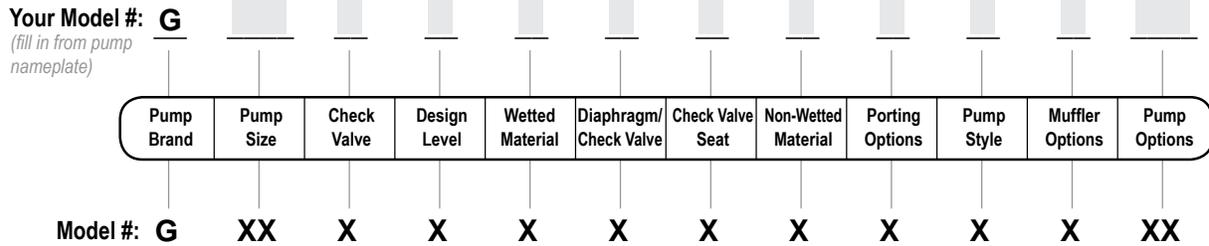
Natural Gas-Operated

Diaphragm Pumps



SANDPIPER®
A WARREN RUPP, INC. BRAND
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Explanation of Pump Nomenclature



Pump Brand
G Natural Gas Operated

Pump Size
05 1/2"

Check Valve Type
B Ball

Design Level
1 Design Level

Wetted Material
A Aluminum
S Stainless Steel

Diaphragm/Check Valve Materials
B Nitrile/Nitrile
T PTFE Overlay, Nitrile/ PTFE
5 Nitrile/PTFE

Check Valve Seat
T Virgin PTFE
A Aluminum
S Stainless Steel

Non-Wetted Material Options

A Painted Aluminum
X Unpainted Aluminum
0 Unpainted Aluminum/FKM Elastomers
V Painted Aluminum/ FKM Elastomers

Porting Options

N NPT Threads
B BSP (Tapered) Threads
R 150# Raised Face 1/2" ANSI Flange w/ Threaded Pipe Connections
W 150# Welded Raised Face 1/2" ANSI Flanged Manifolds

Pump Style

S Standard

Muffler Options

X No Muffler Permitted*

* Welded Raised Face Manifolds are available for models equipped with stainless steel wet end components

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

ATEX Detail

(1)  II 2G c T5
II 2D c T100°C



Performance

G05 METALLIC

SUCTION/DISCHARGE PORT SIZE

- ½" NPT or ½" BSP Tapered (internal)
- 1" NPT or 1" BSP Tapered (external)
- ½" Raised Face 150# ANSI Flange (Stainless Steel Only)

CAPACITY

- 0 to 15 gallons per minute (0 to 56 liters per minute)

GAS DISTRIBUTION VALVE

- No-lube, no-stall design

SOLIDS-HANDLING

- Up to .125 in. (3mm)

HEADS UP TO

- 100 psi or 231 ft. of water (7 bar or 70 meters)

MAXIMUM OPERATING PRESSURE

- 100 psi (7 bar)

DISPLACEMENT/STROKE

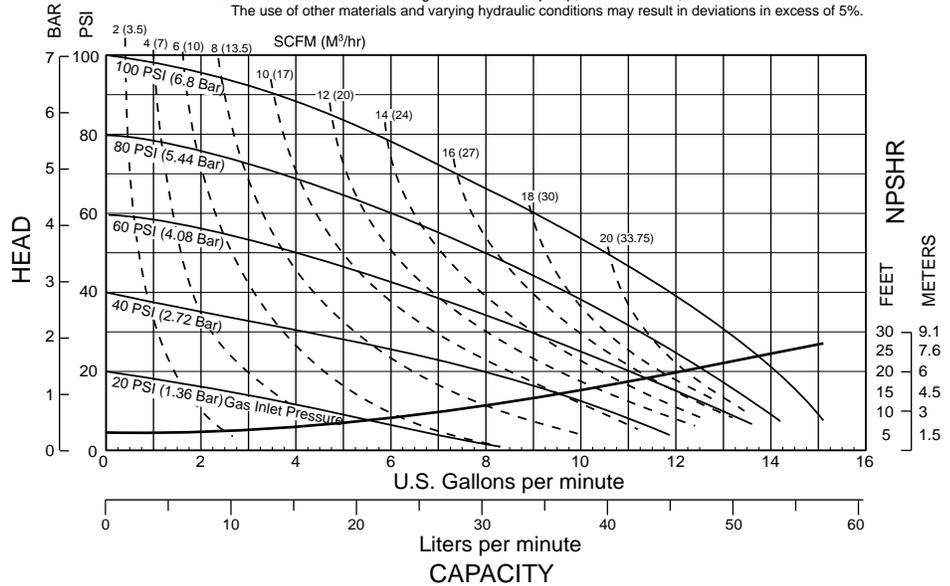
- .026 Gallon / .098 liter

SHIPPING WEIGHT

- Aluminum 15 lbs. (7kg)
- Stainless Steel 21 lbs. (10kg)

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

Performance based on the following: elastomer fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.



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:	
	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
<i>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.</i>		
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.

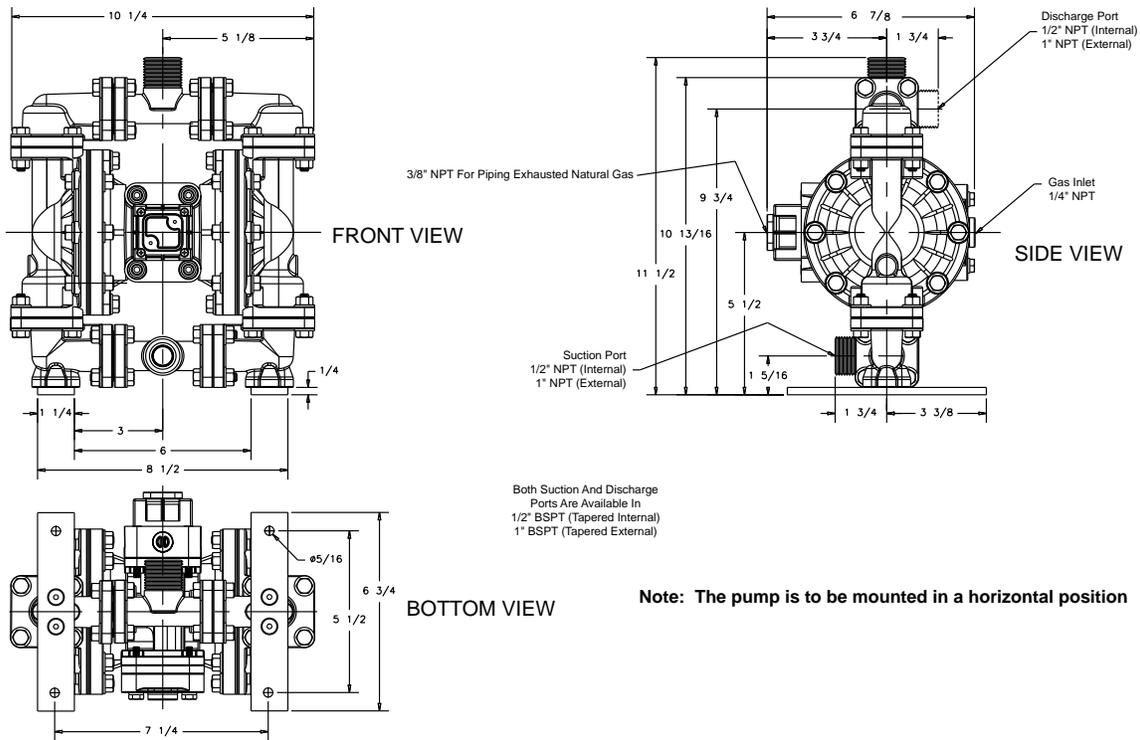
- Ambient temperature range:** -20°C to +40°C
- Process temperature range:** -20°C to +80°C for models rated as category 1 equipment
-20°C to +100°C for models rated as category 2 equipment

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.

Dimensional Drawings

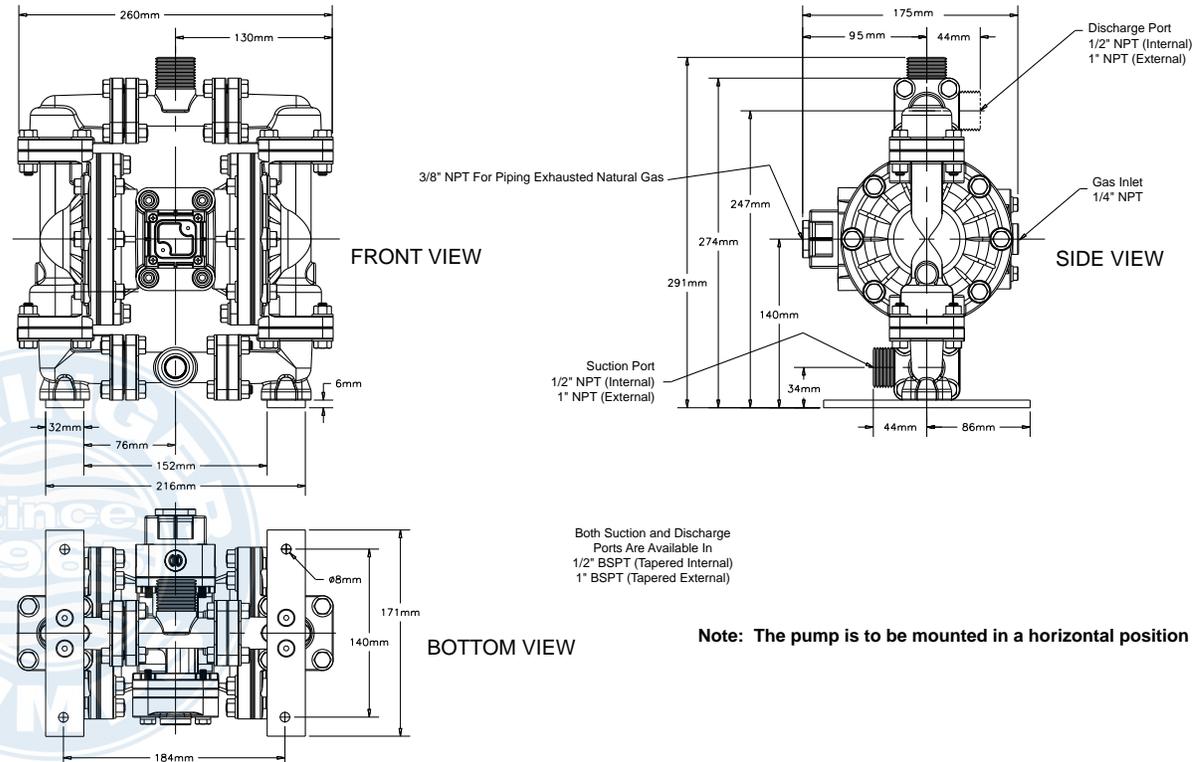
G05 Metallic - Aluminum

Dimensions in Inches. Dimensional Tolerance: ±1/8"



G05 Metallic - Aluminum

Dimensions in Millimeters. Dimensional Tolerance: ± 3mm

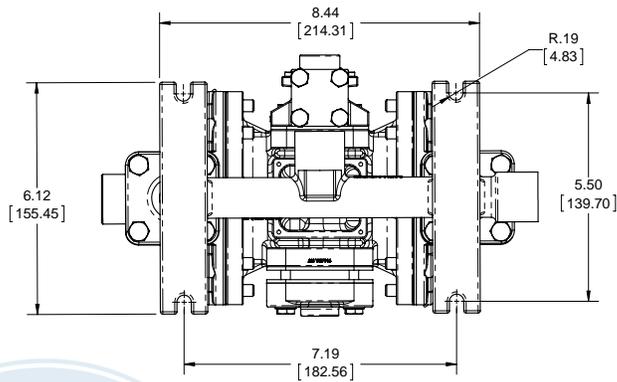
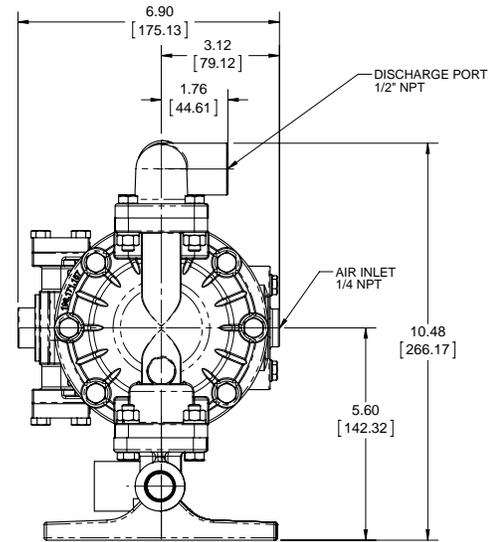
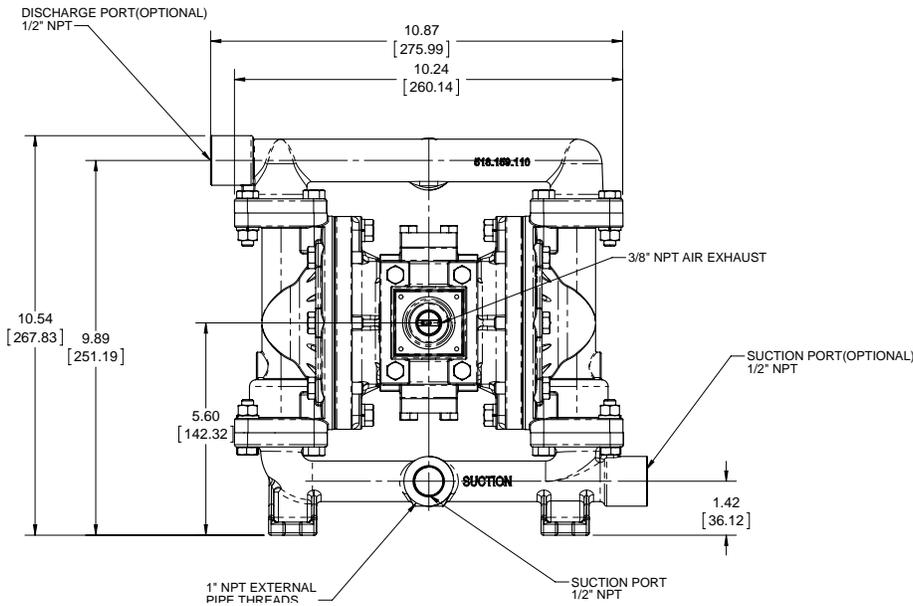


Dimensional Drawings

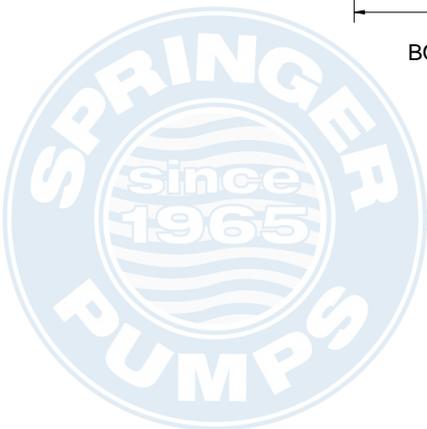
G05 Metallic - Stainless Steel NPT

Dimensions in inches (mm dimensions in brackets). Dimensional Tolerance: $\pm 1/8"$ ($\pm 3\text{mm}$)

The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.



BOTTOM VIEW

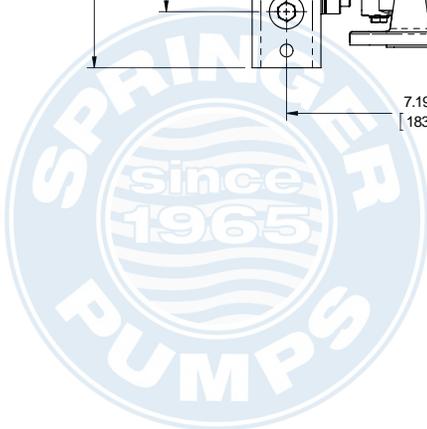
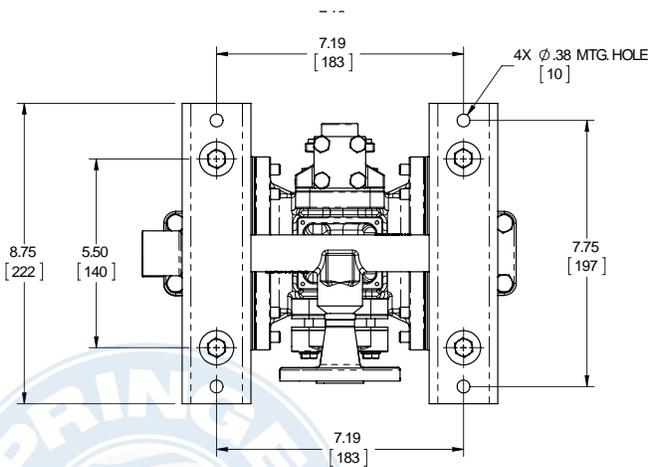
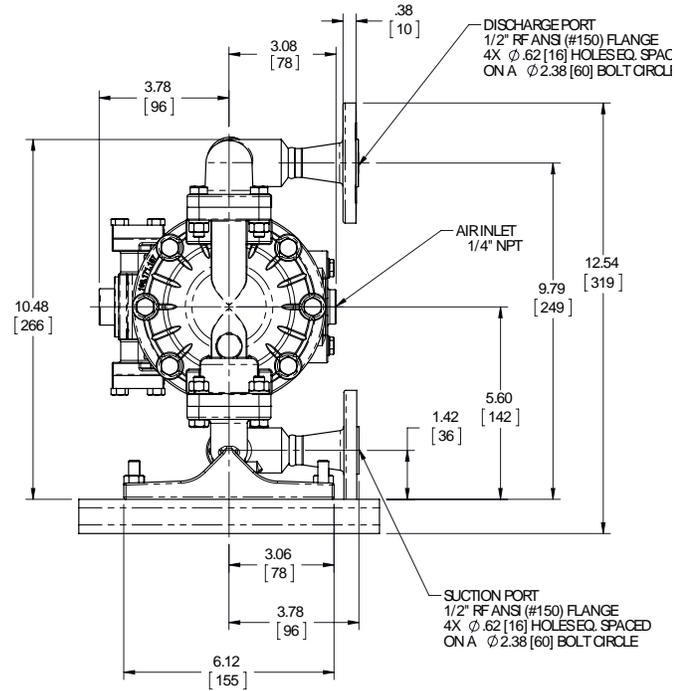
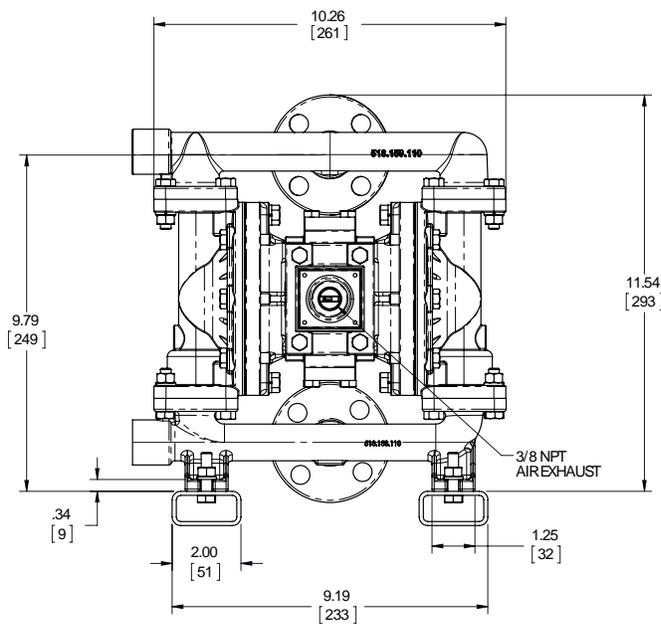


Dimensional Drawings

G05 Metallic - Stainless Steel ANSI Flange

Dimensions in inches (mm dimensions in brackets). Dimensional Tolerance: $\pm 1/8"$ ($\pm 3\text{mm}$)

The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.



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. ~

**WARREN
RUPP, INC.**

Declaration of Conformity

**Manufacturer: Warren Rupp, Inc., 800 N. Main Street
Mansfield, Ohio, 44902 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.

David Roseberry
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



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A WARREN RUPP, INC. BRAND

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g05mdl1ds-rev0915

Model G05 Metallic • 6

Tel: 866-777-6060
Fax: 866-777-6383

Springer Pumps, LLC
Sandpiper Maintenance Videos: <https://goo.gl/Vn9Gdt>

www.springerpumps.com
Int'l: +001 267 404 2910

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 Corporation
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:

I M1 c	II 1 G c T5
II 2 G Ex ia c II CT5	II 1 D c T100°C
II 2 D Ex c ia D 20 IP67 T100°C	II 2 G c T5
II 2 G Ex m c II T5	II 2 D c T100°C
II 2 D c IP65 T100°C	

SANDPIPER[®]
A WARREN RUPP, INC. BRAND

Tranquilizer[®]

DATE/APPROVAL/TITLE:
18 March 2016

David Roseberry
David Roseberry, Director of Engineering

IDEX