

# DATA SHEET

## Specifications & Performance

### Certified Quality



Quality System  
ISO 9001 Certified



Environmental Management System  
ISO 14001 Certified



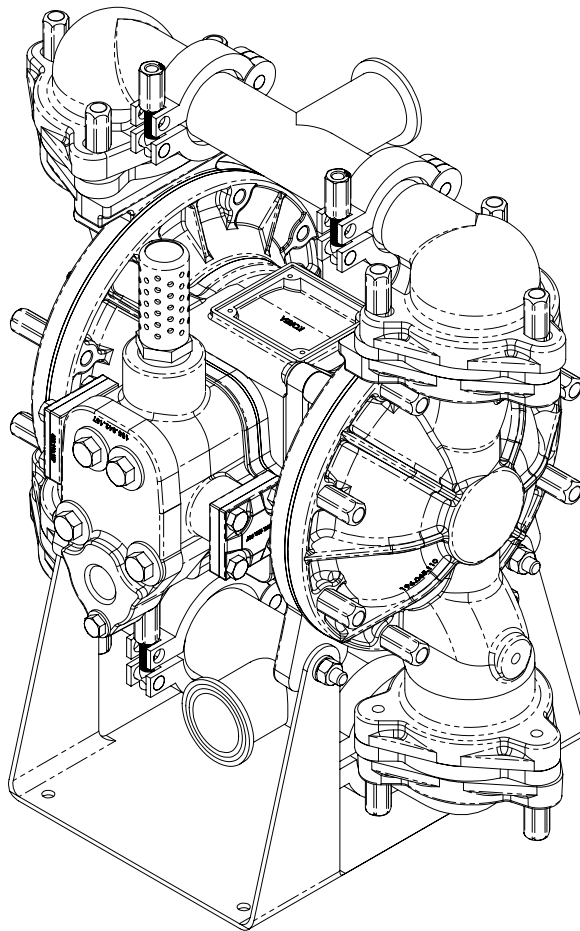
Warren Rupp, Inc.  
A Unit of IDEX Corporation



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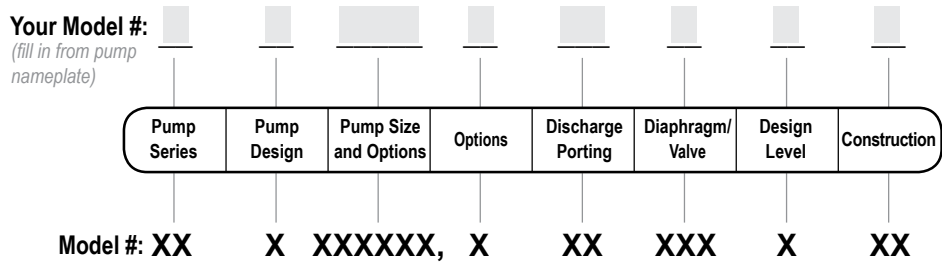
# Model SSB1 & DSB1

## Metallic Design Level 4



**SANDPIPER**<sup>®</sup>  
A WARREN RUPP, INC. BRAND

# Explanation of Pump Nomenclature



**Pump Series**  
S SANDPIPER®

**Pump Design**  
F Flap Valve

**Pump Size**  
1 1 1/2" Tri-Clamp

**Discharge Porting Position**  
T Top

**Diaphragm Check Valve Materials**  
F FDA Accepted White Nitrile

**Design Level**  
4

**Construction**  
SS Stainless Steel Wetted, Aluminum Air

**Options**  
Model DSB1 requires amn electronic leak detector:

032.037.000 (110VAC)  
032.043.000 (220VAC)  
032.044.000 (12-32VDC)

This model is not ATEX compliant.

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

## ATEX Detail

(1)  II 2G c T5  
II 2D c T100°C



# Performance

## SSB1 & DSB1

### SUCTION/DISCHARGE PORT SIZE

- 1 ½" Tri-Clamp Flange Fitting

### CAPACITY

- 0 to 54 gallons per minute  
(0 to 204 liters per minute)

### AIR DISTRIBUTION VALVE

- No-lube, no-stall design

### SOLIDS-HANDLING

- Up to .25 in. (6mm)

### HEADS UP TO

- 125 psi or 289 ft. of water  
(8.8 Kg/cm<sup>2</sup> or 88 meters)

### MAXIMUM OPERATING PRESSURE

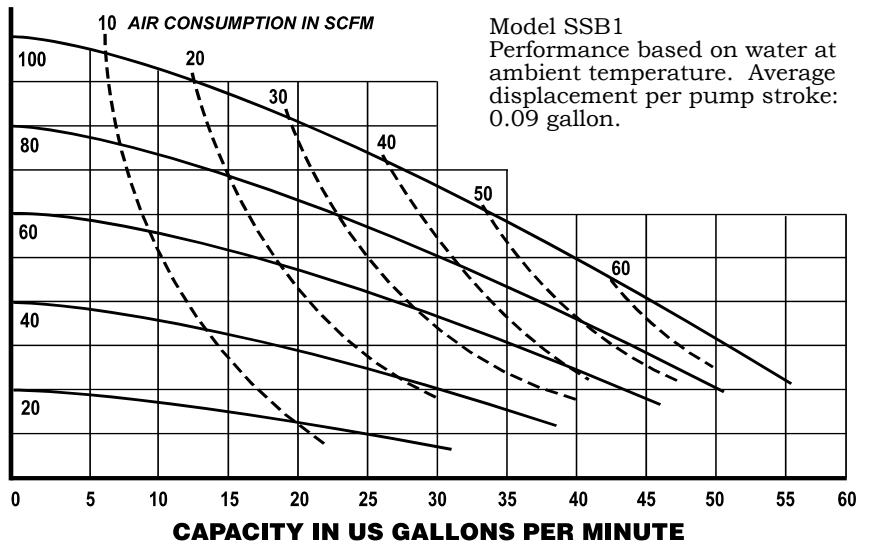
- 125 psi (8.6 bar)

### DISPLACEMENT/STROKE

- .09 Gallon / .34 liter

### SHIPPING WEIGHT

- SSB1 Models 60 lbs. (27.2kg)
- DSB1 Model 62 lbs. (28.1kg)



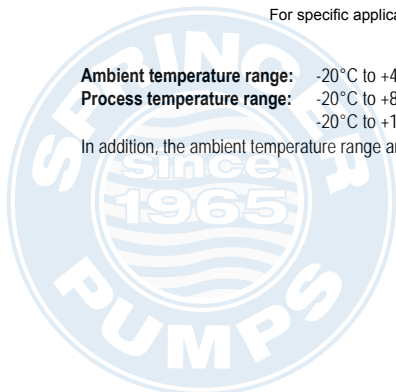
## Materials

Material Profile:	Operating Temperatures:	
	Max.	Min.
<b>EPDM:</b> Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and alcohols.	280°F 138°C	-40°F -40°C
<b>Nitrile:</b> 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
<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:		
<b>Stainless Steel:</b> 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.

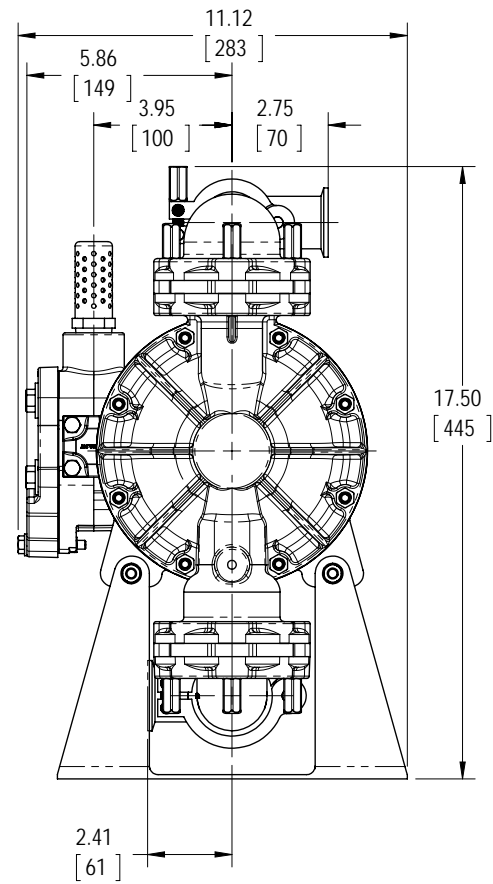
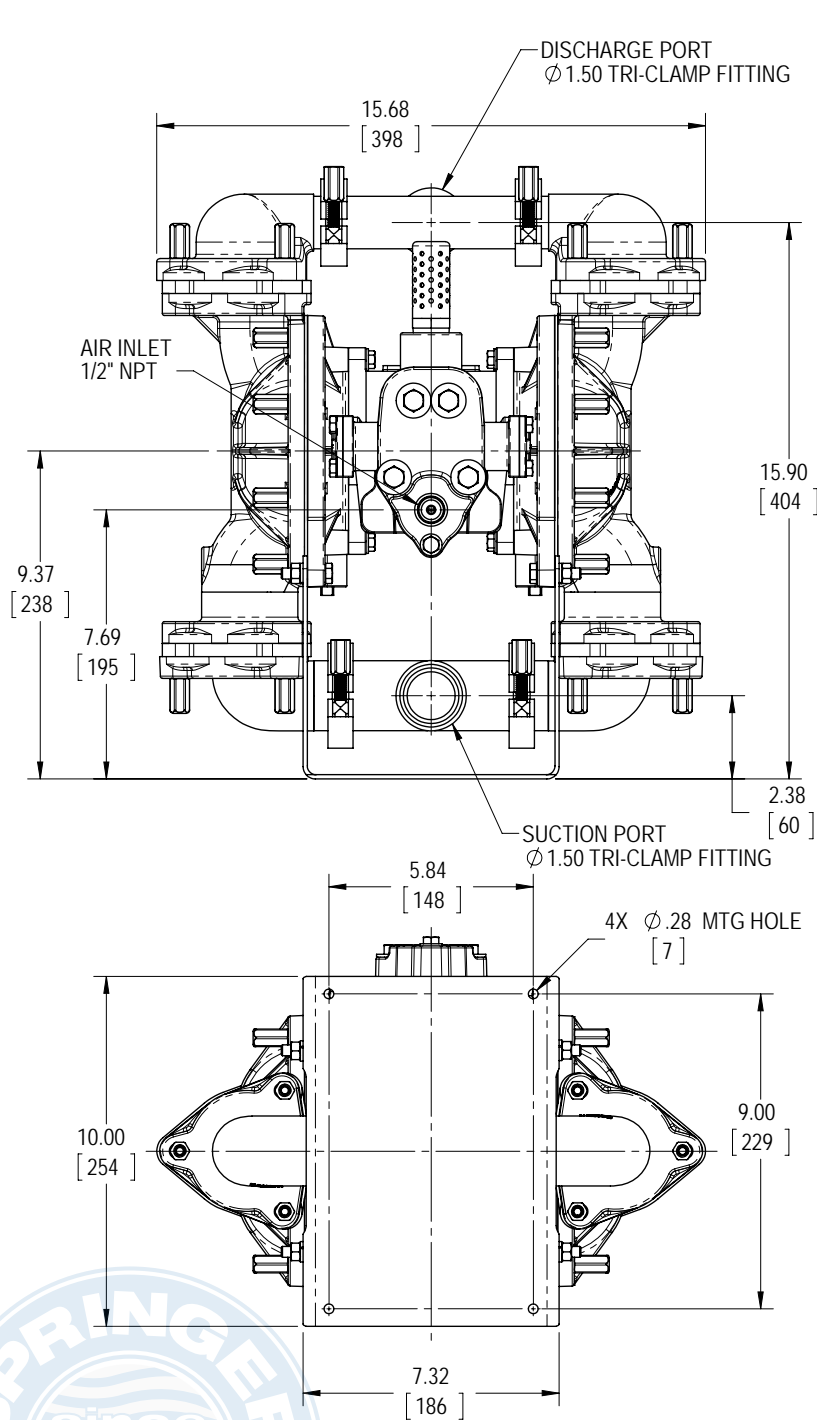
- Ambient temperature range:** -20°C to +40°C
- Process temperature range:** -20°C to +80°C for models rated as category 1 equipment  
-20°C to +100°C for models rated as category 2 equipment

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.

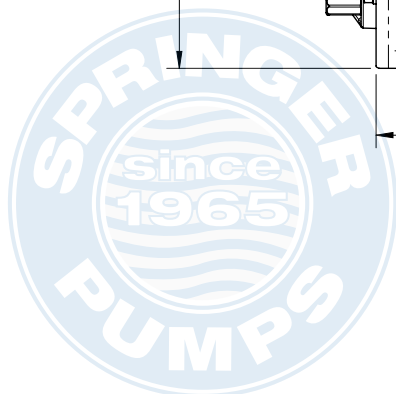


# Dimensional Drawings

## SSB1 & DSB1 SANITARY BALL VALVE



**SSB1 / DSB1**  
**SANITARY BALL VALVE**  
 DIMENSIONAL TOLERANCE ±.125 [3]  
 [XX] = MILLIMETERS



# 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](http://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

October 20, 2005  
Date of issue

David Roseberry  
Printed name of authorized person

Engineering Manager  
Title

Revision Level: F

August 23, 2012  
Date of revision



# **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 IICT5	II 1 D c T100°C
II 2 D Ex c iaD 20 IP67 T100°C	II 2 G c T5
II 2 G Eex m c II T5	II 2 D c T100°C
II 2 D c IP65 T100°C	

**SANDPIPER**<sup>®</sup>

A WARREN RUPP, INC. BRAND

**Tranquilizer**<sup>®</sup>

DATE/APPROVAL/TITLE:  
18 March 2016

*David Roseberry*  
David Roseberry, Director of Engineering

**IDEX**