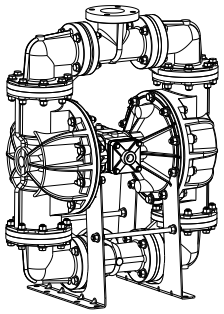
WARREN RUPP®

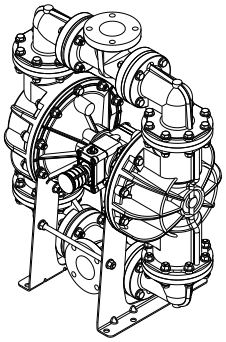
Quality System ISO9001 Certified

Environmental Management System ISO14001 Certified

IDEX FLUID & METERING



Air Inlet Side View



Air Exhaust Side View

CE

SANDPIPER®
A WARREN RUPP PUMP BRAND

S30

Non-Metallic Ball Valve

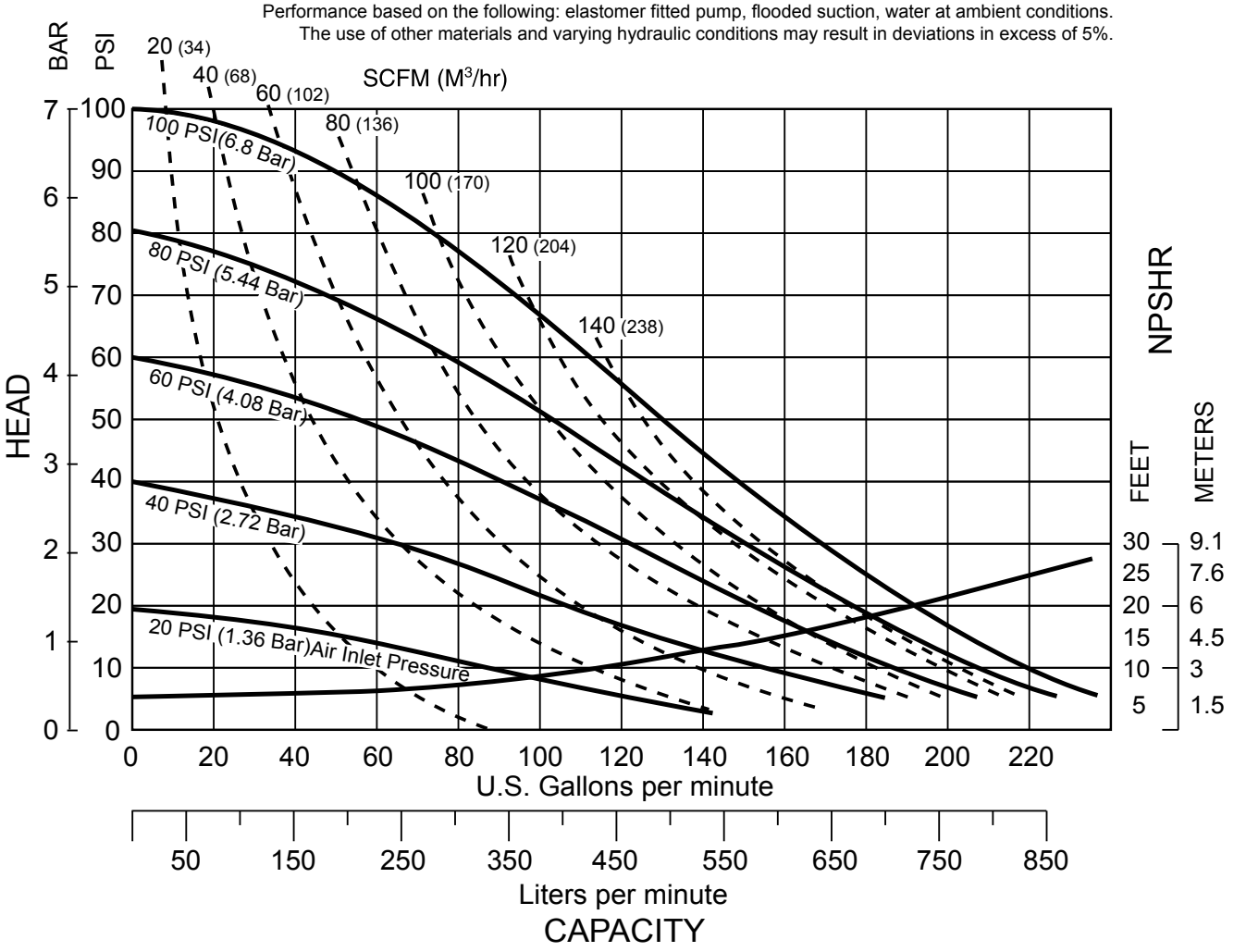
Design Level 2

Air Operated Double Diaphragm Pump

ENGINEERING, PERFORMANCE & CONSTRUCTION DATA

INTAKE/DISCHARGE PIPE SIZE	CAPACITY	AIR VALVE	SOLIDS-HANDLING	HEADS UP TO	DISPLACEMENT/STROKE
3" ANSI Flange or 80mm DIN Flange	0 to 238 gallons per minute (0 to 901 liters per minute)	No-lube, no-stall design	Up to .71 in. (18mm)	100 psi or 231 ft. of water (7 bar or 70 meters)	.9 Gallon / 3.41 liter

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%.



SANDPIPER® pumps are designed to be powered only by compressed air.

Explanation of Pump Nomenclature
S30 Non-Metallic · Design Level 2· Ball Valve

MODEL	Pump Brand	Pump Size	Check Valve Type	Design Level	Wetted Material	Diaphragm/ Check Valve Materials	Check Valve Seat	Non-Wetted Material Options	Porting Options	Pump Style	Pump Options	Shipping Kit Options	Weight lbs. (kg)
S30B2P1PQAS000.	S	30	B	2	P	1	P	Q	A	S	0	00.	231 (105)
S30B2P2PQAS000.	S	30	B	2	P	2	P	Q	A	S	0	00.	231 (105)
S30B2K1KQAS000.	S	30	B	2	K	1	K	Q	A	S	0	00.	315 (143)
S30B2K2KQAS000.	S	30	B	2	K	2	K	Q	A	S	0	00.	315 (143)
S30B2P4PQAV000.	S	30	B	2	P	4	P	Q	A	V	0	00.	270 (122)
S30B2K4KQAV000.	S	30	B	2	K	4	K	Q	A	V	0	00.	354 (161)

Pump Brand
S= SANDPIPER®

Pump Size
30=3"

Check Valve Type
B= Ball

Design Level
2= Design Level 2

Wetted Material
K= PVDF
P= Polypropylene

Diaphragm Check Valve Materials
1= Santoprene/Santoprene
2= PTFE-Santoprene Backup/PTFE
3= PTFE Pumping, PTFE-Santoprene Backup Driver/PTFE
4= Santoprene Pumping, Santoprene Driver/Santoprene

Check Valve Seat
K= PVDF
P= Polypropylene
U= Polyurethane/ Polyurethane

Non-Wetted Material Options
A= Painted Aluminum
J= Painted Aluminum PTFE
Q= Epoxy Coated Aluminum
K= PTFE Coated Aluminum
L= PTFE Coated Aluminum with PTFE Coated Hardware
R= Epoxy Coated Aluminum with PTFE Coated Hardware

Porting Options
A= ANSI Flange
D= DIN Flange
7= Dual Porting (ANSI)
8= Top Dual Porting (ANSI)
9= Bottom Dual Porting (ANSI)

Pump Style
D= Spill Containment with Electronic Leak Detection (110V)
E= Spill Containment with Electronic Leak Detection (220V)
M= Spill Containment with Mechanical Leak Detection
S= Standard
V= Spill Containment with Visual Leak Detection

Pump Options
0= None
1= Sound Dampening Muffler
2= Mesh Muffler
3= High temperature Air Valve w/Integral Muffler
4= High temperature Air Valve Sound Dampening Muffler
5= High temperature Air Valve w/Mesh Muffler

Kit Options
00.= None
P0.= 10-30VDC Pulse Output Kit
P1.= Intrinsically-Safe 5-30VDC,110/120VAC, 220/240VAC Pulse Output Kit
P2.=110/120 or 220/240VAC Pulse Output Kit

Kit Options, Continued
E0.= Solenoid Kit with 24VDC Coil
E1.= Solenoid Kit with 24VDC Explosion-Proof Coil
E2.= Solenoid Kit with 24VAC/12VDC Coil
E3.= Solenoid Kit with 12VDC Explosion-Proof Coil
E4.= Solenoid Kit with 110VAC Coil
E5.= Solenoid Kit with 110VAC, 60 Hz Explosion-Proof Coil
E6.= Solenoid Kit with 220VAC Coil
E7.= Solenoid Kit with 220VAC, 60 Hz Explosion-Proof Coil
E8.= Solenoid Kit with 110VAC, 50 Hz Explosion-Proof Coil
E9.= Solenoid Kit with 230VAC, 50 Hz Explosion-Proof Coil
SP.= Stroke Indicator Pins

⚠ CAUTION! Operating temperature limitations are as follows:

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.

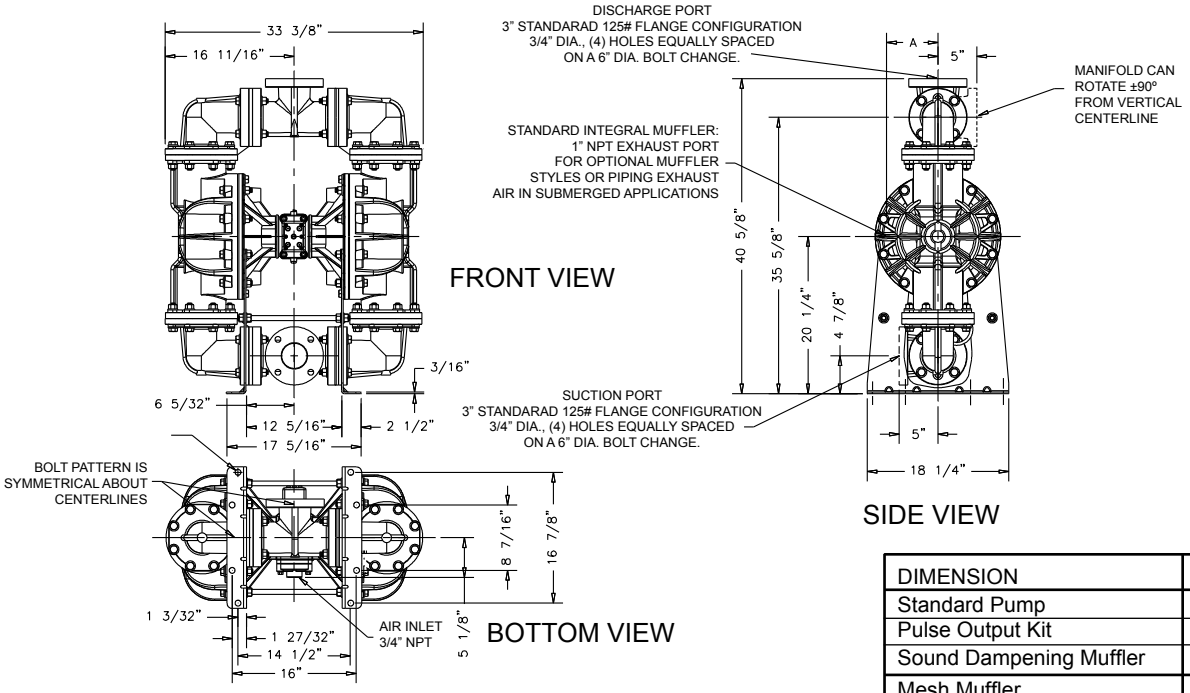
Materials	Operating Temperatures Maximum	Minimum
Nitrile General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C
PVDF A durable fluoroplastic with excellent chemical resistance. Excellent for UV applications. High tensile strength and impact resistance.	250°F 121°C	0°F -18°C
NEOPRENE All purpose. Resistant to vegetable oils. Generally not affected by moderate chemicals, fats, greases and many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters, nitro hydrocarbons and chlorinated aromatic hydrocarbons.	200°F 93°C	-10°F -23°C
PTFE Chemically inert, virtually impervious. Very few chemicals are known to react chemically 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
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) will attack FKM.	350°F 177°C	-40°F -40°C
Santoprene® Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C
Polypropylene A thermoplastic polymer. Moderate tensile and flex strenght. Resists strong acids and alkalie. Attacked by chlorine, fuming nitric acid and other strong oxidizing agents.	180°F 82°C	32°F 0°C

For specific applications, always consult the Warren Rupp "Chemical Resistance Chart"

CAUTION: Nonmetallic pumps and plastic components are not UV stabilized. Ultraviolet radiation can damage these parts and negatively affect material properties. Do not expose to UV light for extended periods of time.

Dimensions: S30 Non-Metallic

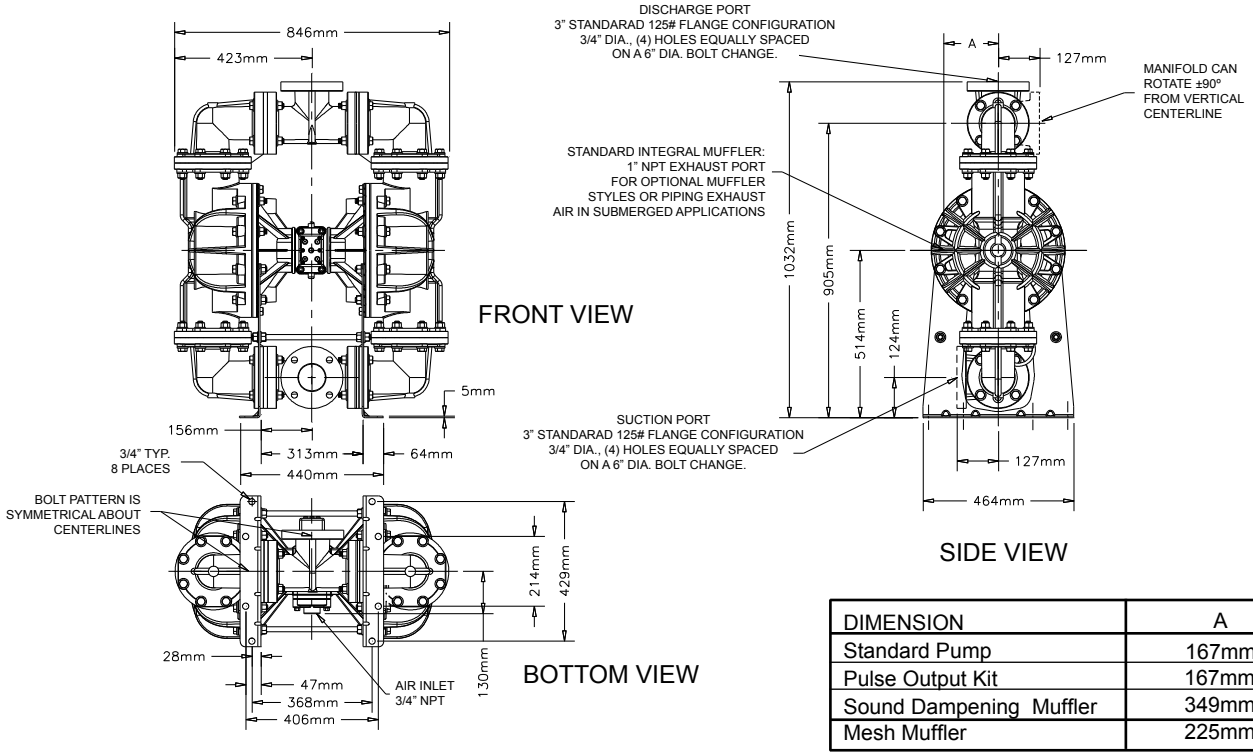
Dimensions in Inches
Dimensional Tolerance: ±1/8"



DIMENSION	A
Standard Pump	6 9/16”
Pulse Output Kit	6 9/16”
Sound Dampening Muffler	13 3/4”
Mesh Muffler	8 13/16”

Note: Porting Flanges are also available with PN10 80mm DIN bolting configuration.

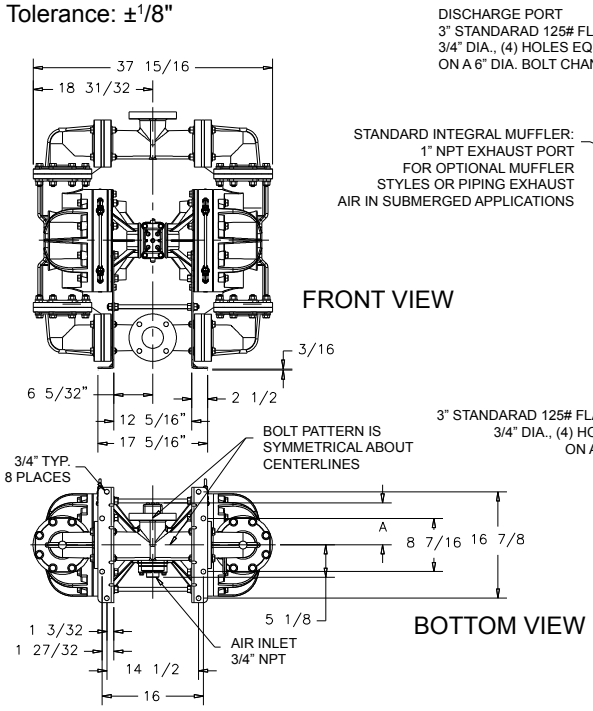
Dimensions in Millimeters
Dimensional Tolerance: ± 3mm

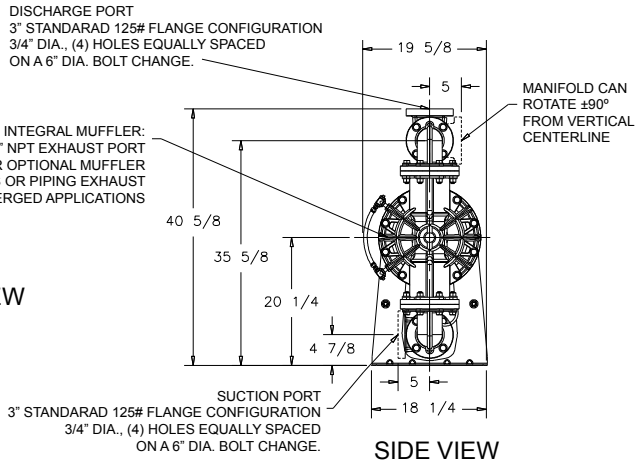


DIMENSION	A
Standard Pump	167mm
Pulse Output Kit	167mm
Sound Dampening Muffler	349mm
Mesh Muffler	225mm

Dimensions: S30 Non-Metallic with Containment Duty

Dimensions in Inches
Dimensional Tolerance: ±1/8"



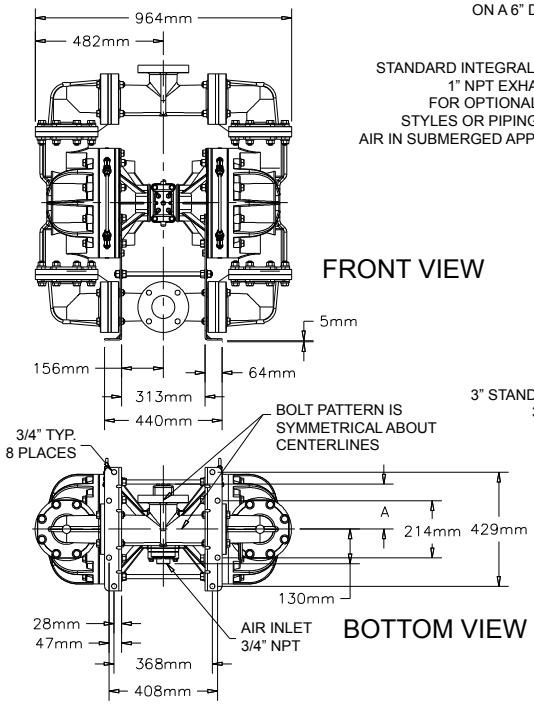


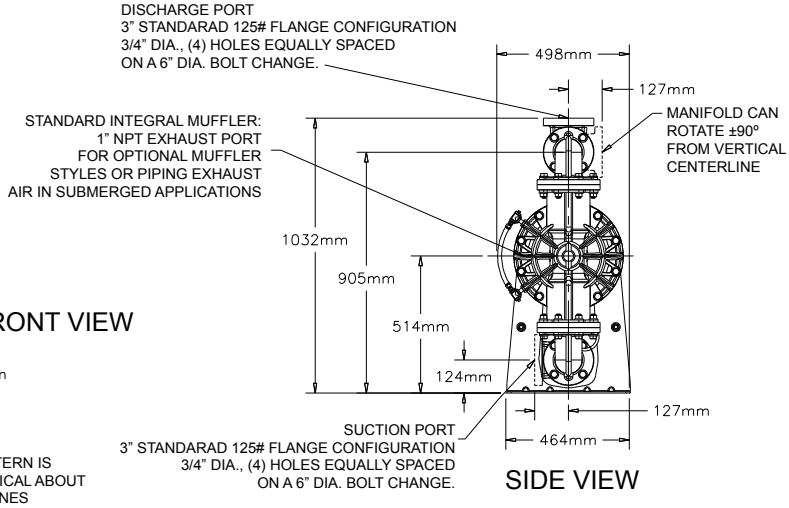
DIMENSION	A	B
Standard Pump	6 9/16"	12 11/16"
Pulse Output Kit	6 9/16"	12 11/16"
Sound Dampening Muffler	13 3/4"	22 9/32"
Mesh Muffler	8 13/16"	14 15/16"

Note: Porting Flanges are also available with PN10 80mm DIN bolting configuration.

Dimensions in Millimeters

Dimensional Tolerance: ± 3mm





DIMENSION	A	B
Standard Pump	167mm	322mm
Pulse Output Kit	167mm	322mm
Sound Dampening Muffler	349mm	579mm
Mesh Muffler	225mm	380mm

Note: Porting Flanges are also available with PN10 80mm DIN bolting configuration.