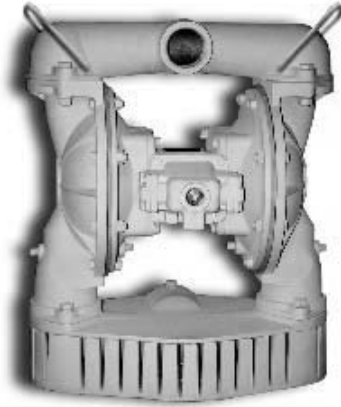


WARREN RUPP®

Quality System
ISO9001 Certified

Environmental
Management System
ISO14001 Certified

IBEX
FLUID & METERING



SANDPIPER®
A WARREN RUPP PUMP BRAND

**Mine/Construction Duty
Models MSB2-A, MSB2-B
Type 3
Ball Valve**

Air-Operated
Double Diaphragm Pump

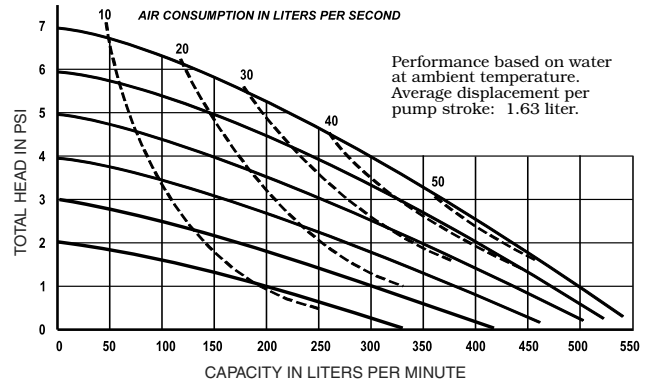
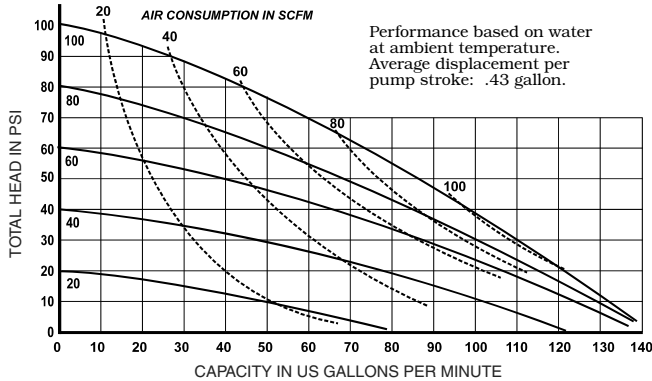
ENGINEERING, PERFORMANCE
& CONSTRUCTION DATA



INTAKE/DISCHARGE PIPE SIZE 2" (50mm) NPT(F)	CAPACITY 0 to 135 gallons per minute (0 to 511 liters per minute)	AIR VALVE No-lube, non-stall design.	SOLIDS-HANDLING Up to 1/4" (2 mm)	HEADS UP TO 125 psi or 289 ft. of water (8.8Kg/cm ² or 88 meters)
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PERFORMANCE CURVES

(SANDPIPER® pumps are designed to be powered **only** by compressed air)



MATERIALS OF CONSTRUCTION

MSB2 Type 3	Manifold	Outer Chamber	Inner Chamber	Outer Diaphragm Plate	Inner Diaphragm Plate	Intermediate Housing	Diaphragm Rod	Valve Seat	Hard-ware	Diaphragm	Ball Valve Material	Air Valve	Shipping Wt. (lbs)
TN-3-A	356T6AL	AL380DC	AL 380DC	AL380DC	PS	356T6AL	416SS	N	PS	N	N	356T6AL	86
TB-3-A	356T6AL	AL380DC	AL 380DC	AL380DC	PS	356T6AL	416SS	B	PS	B	B	356T6AL	86
TS-3-A	356T6AL	AL380DC	AL 380DC	AL380DC	PS	356T6AL	416SS	I	PS	S	I	356T6AL	86

Meanings of Abbreviations:

AL = Aluminum
B = Nitrile
DC = Die Cast

PS = Plated Steel
S = Santoprene®
N = Neoprene

SS = Stainless Steel

Santoprene® is a registered name of Monsanto Corp. SANDPIPER® is a registered tradename of Warren Rupp, Inc.

Mine/Construction Duty Models

MSB2-A MSB2-B BALL VALVE



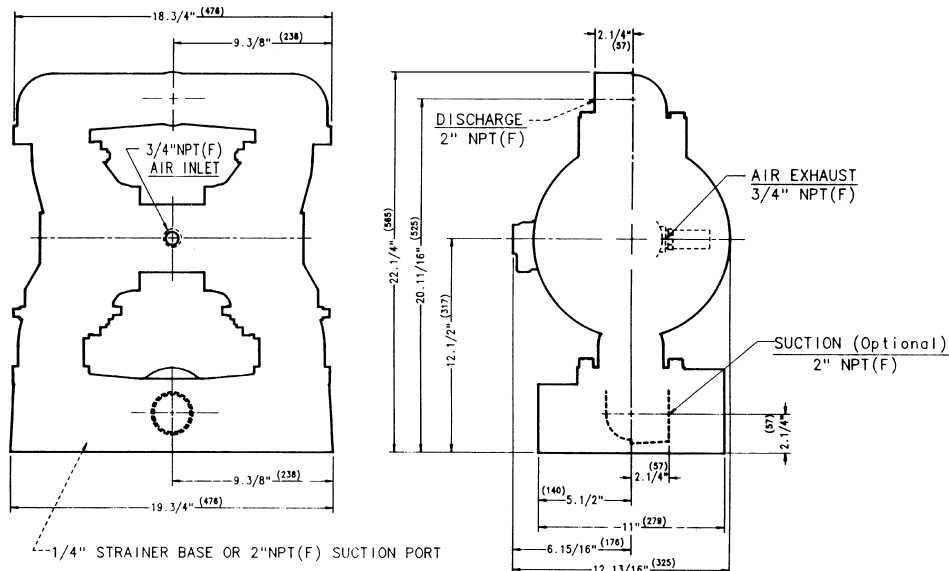
MATERIALS	Operating Temperatures	
	NITRILE General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C
SANTOPRENE® Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°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.	170°F 77°C	-35°F -37°C

For specific applications, always consult The Warren Rupp Chemical Resistance Chart.

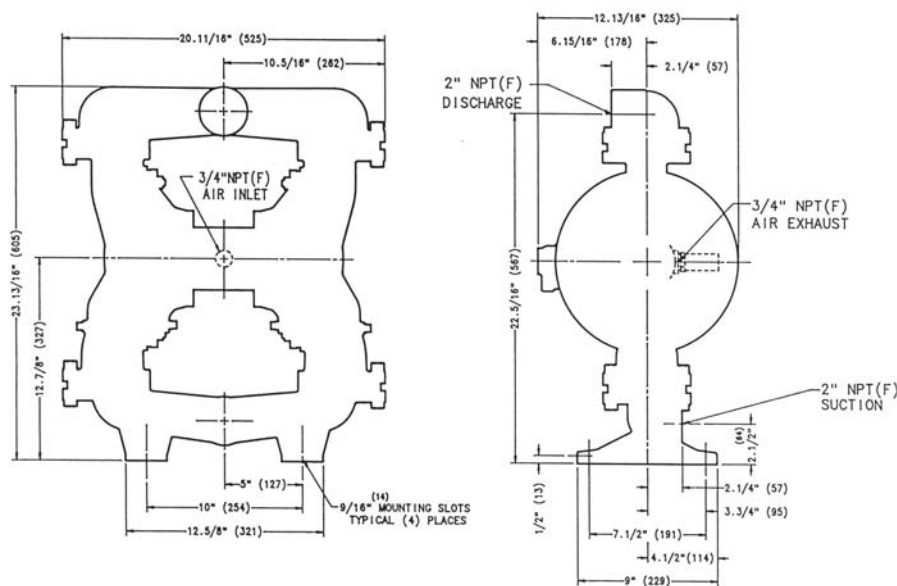
*Definite reduction in service life.
**Minimal reduction in service life at ends of range.

Dimensions are ± 1/8"
Figures in parenthesis = millimeters

STRAINER BASE OR 2" NPT(F) SUCTION AND DISCHARGE



3/4" NPT(F) AIR INLET PORT • 3/4" NPT(F) AIR EXHAUST PORT



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