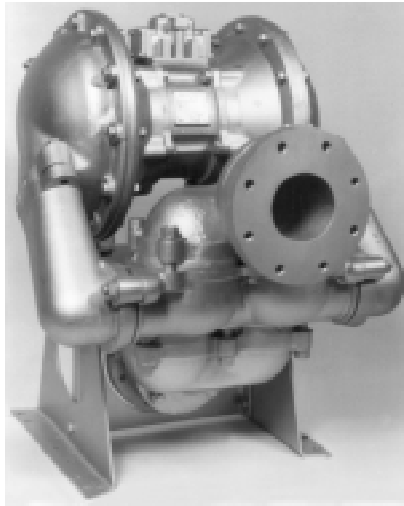


**WARREN RUPP®**

Quality System  
ISO9001 Certified

Environmental  
Management System  
ISO14001 Certified

**IDEX**  
IDEX CORPORATION



# SandPIPER®

## BALL VALVE SB4-A Type 3

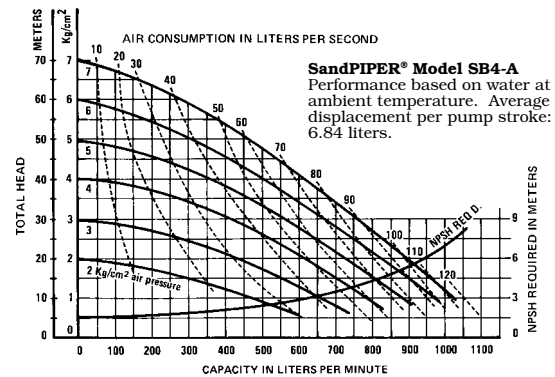
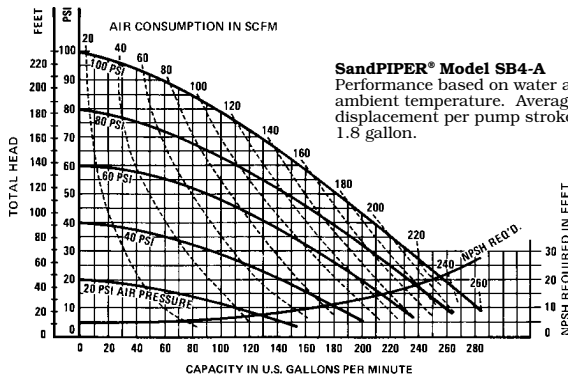
### Air-Powered Double-Diaphragm Pump

ENGINEERING, PERFORMANCE  
& CONSTRUCTION DATA

<b>INTAKE/DISCHARGE PIPE SIZE</b> 4" (101mm) ASA Flange	<b>CAPACITY</b> 0 to 260 gallons per minute (0 to 988 liters per minute)	<b>AIR VALVE</b> No-lube, no-stall design.	<b>SOLIDS-HANDLING</b> Up to 7/8" (22.2mm)	<b>HEADS UP TO</b> 125 psi or 289 ft. of water (8.8 Kg/cm <sup>2</sup> or 88 meters)
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### PERFORMANCE CURVES

(SandPIPER® pumps are designed to be powered **only** by compressed air)  
Temperature Limit: 212°F - 100°C MAXIMUM



### MATERIALS OF CONSTRUCTION

SB4-A Type 3	Manifold Porting			Manifold	Outer Chamber	Inner Chamber	Outer Diaphragm Plate	Inner Diaphragm Plate	Intermediate Housing	Diaphragm Rod	Valve Seat	Hardware	Diaphragm	Ball Valve Material	Seat Gasket	Manifold Gasket Sealing Rings	Shipping Wt.(lbs)
	Top	Side	Bottom														
DB-3-CI			X	CI	CI	CI	PS	PS	CI	416SS	CI	PS	B	B	A	B	490
TB-3-CI	X			CI	CI	CI	PS	PS	CI	416SS	CI	PS	B	B	A	B	490
DI-3-CI		X		CI	CI	CI	PS	PS	CI	416SS	CI	PS	I	I	A	I	490
TI-3-CI	X			CI	CI	CI	PS	PS	CI	416SS	CI	PS	I	I	A	I	490
DN-3-CI			X	CI	CI	CI	PS	PS	CI	416SS	CI	PS	N	N	A	N	490
TN-3-CI	X			CI	CI	CI	PS	PS	CI	416SS	CI	PS	N	N	A	N	490
DC-3-CI			X	CI	CI	CI	PS	PS	CI	416SS	CI	PS	V	T	BG	V	490
TC-3-CI	X			CI	CI	CI	PS	PS	CI	416SS	CI	PS	V	T	BG	V	490

#### Meanings of Abbreviations:

A = Compressed Fibre  
B = Buna-N  
BG = Blue Gylon

CI = Cast Iron  
I = EPDM  
N = Neoprene

PS = Plated Steel  
SS = Stainless Steel  
T = PTFE

V = Viton®

©Viton is a registered tradename of E.I. DuPont

©Warren Rupp and SandPIPER are registered tradenames of Warren Rupp, Inc.

**Available  
Parts Kits:**

**Air End Kit:  
No:** 476-101-000

**Wetted End Kit:  
Nos:** 476-046-365  
476-046-364  
476-046-360

476-046-633  
476-046-635

# SB4-A BALL VALVE SandPIPER®

## DIAPHRAGM & CHECK VALVE CHARACTERISTICS

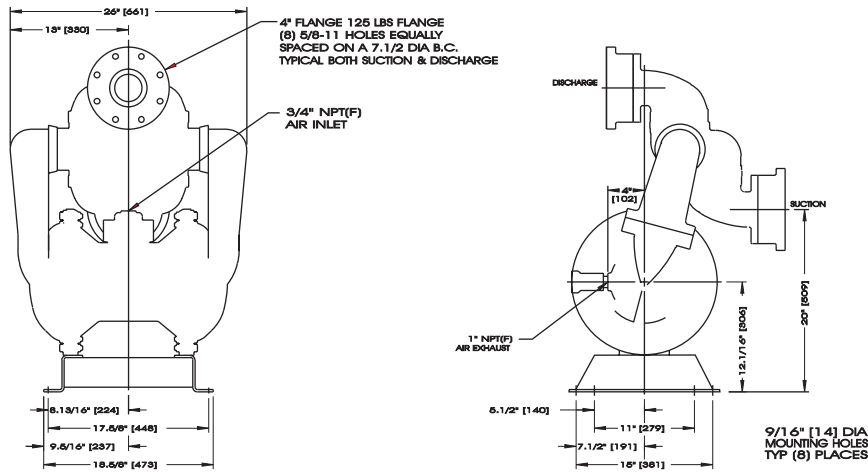
Material	Operating Temperatures		
	Maximum*	Minimum*	Optimum**
<b>BUNA-N</b> General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C	50°F to 140°F 10°C to 60°C
<b>EPDM</b> Shows very good water and chemical resistance. Has poor resistance to oil and solvents, but is fair in ketones and alcohols.	212°F 100°C	-10°F -23°C	50°F to 212°F 10°C to 100°C
<b>NEOPRENE</b> 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	50°F to 130°F 10°C to 54°C
<b>PTFE</b> 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.	212°F 100°C	-35°F -37°C	50°F to 212°F 10°C to 100°C
<b>VITON®</b> 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 Viton.	212°F 100°C	32°F 0°C	75°F to 212°F 24°C to 100°C

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

For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin.

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

### TOP PORTED



### BOTTOM PORTED

