

Quality System ISO9001 Certified

Environmental Management System ISO14001 Certified





SandPIPER®

FLAP VALVE SA3-M Type 2 SA4-M Type 2

Air-Powered Double-Diaphragm Pump

ENGINEERING, PERFORMANCE & CONSTRUCTION DATA

INTAKE	/DISCH	ARGE	PIPE	SIZE

SA3-M: 3" 125# ASA bolt on flange SA4-M: 4" 125# ASA bolt on flange

CAPACITY

0 to 260 gallons per minute (0 to 988 liters per minute)

AIR VALVE

No-lube, no-stall design.

SOLIDS-HANDLING

Up to nearly 3" (75mm)

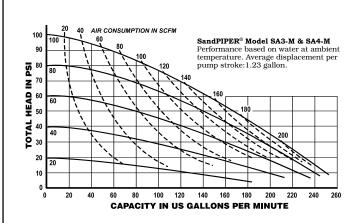
HEADS UP TO

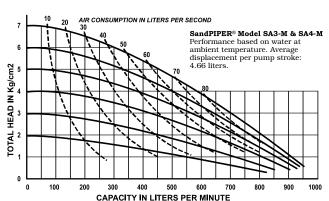
125 psi or 289 ft. of water (8.8 Kg/cm² or 88 meters)

PERFORMANCE CURVES

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

Temperature Limit: 212°F - 100°C MAXIMUM





MATERIALS OF CONSTRUCTION

SA3-M Type 2	Manifold Porting Bottom	Manifold Elbow	Outer Chamber	Inner Chamber	Outer Diaphragm Plate	Inner Diaphragm Plate	Intermediate Housing	Diaphragm Rod	Valve Seat	Hard- ware	Diaphragm	Flap Valve Material	Seat Gasket	Manifold Gasket Sealing Rings	Shipping Wt.(lbs)
DA-2-II	Х	CI	CI	DI	CI	PS	CI	416SS	CI	PS	N	U	Α	В	363
DN-2-II	×	CI	CI	DI	CI	PS	CI	416SS	CI	PS	N	N	Α	В	363
DB-2-II	Х	CI	CI	DI	CI	PS	CI	416SS	CI	PS	В	В	Α	В	363
DK-2-II	Х	CI	CI	DI	CI	PS	CI	416SS	CI	PS	N	Н	Α	В	363
SA4-M Type 2															
DN-2-II	Х	CI	CI	DI	CI	PS	CI	416SS	CI	PS	N	N	Α	В	390
DB-2-II	Х	CI	CI	DI	CI	PS	CI	416SS	CI	PS	В	В	Α	В	390
DA-2-II	Х	CI	CI	DI	CI	PS	CI	416SS	CI	PS	N	U	Α	В	390

Meanings of Abbreviations:

A = Compressed Fibre

B = Buna-N CI = Cast Iron DI = Ductile Iron H = Hytrel® N = Neoprene PS = Plated Steel

SS = Stainless Steel

U = Rupplon®

Hytrel® is a registered tradename of E.I. du Pont.

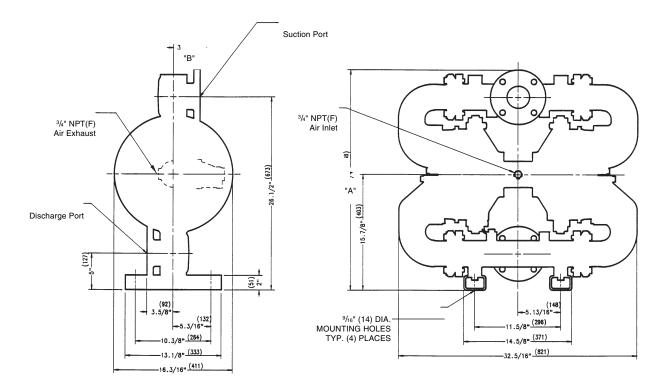
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SA3-M & SA4-M FLAP VALVE SandPIPER

MAMEDIAI O		Operating Temperatures				
MATERIALS	Maximum*	Minimum*	Optimum**			
BUNA-N 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 <i>88°C</i>	-10°F <i>-23°C</i>	50°F to 140°F 10°C to 60°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 <i>77°C</i>	-35°F <i>-37°C</i>	50°F to 130°F 10°C to 54°C			
HYTREL® Good on acids, bases, amines and glycols at room temperature only.	190°F <i>88°C</i>	-10°F <i>-23°C</i>	50°F to 140°F 10° to 60°C			
RUPPLON ® (Urethane) Shows good resistance to abrasives. Has poor resistance to most solvents and oils.		+32° F 0C	50°F to 110°F 10° to 43°C			
For specific applications, always consult *Chemical Resistance Chart* Technical Bulletin. **Minimal reduction in service life. **Minimal reduction in service life at ends of range.						

Dimensions are ± 1/8"

Figures in parenthesis = millimeters



	SA3-M	SA4-M
Suction & Discharge Ports	3" Std. 125# flange. Four (4) ³ / ₄ " dia. thru holes equally spaced on a 6" diameter bolt circle	4" Std. 125# adaptor flange. Eight (8) 5/s-11 unc tapped holes equally spaced on a 71/2" diameter bolt circle
Dimension "A"	301/4" (768)	31" (787)
Dimension "B"	33/8" (92)	6 ⁵ /e" (168)

SA3-M: 3" FLANGED SUCTION & DISCHARGE PORTS • ¾" NPT(F) AIR INLET • ¾" NPT(F) AIR EXHAUST PORT SA4-M: 4" FLANGED SUCTION & DISCHARGE PORTS • ¾" NPT(F) AIR INLET • ¾" NPT(F) AIR EXHAUST PORT

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Specifications are subject to improvement without notice.

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