

PRODUCT DATA SHEET

November, 2008

SA3A AIR DIAPHRAGM PUMP

(Aluminum (AL) and Stainless Steel (SS))

GENERAL INFORMATION

This is an air-powered double diaphragm pump designed for applications requiring low flowrates and moderate head pressures.

This pump must be supplied with an external source of compressed air to operate. It can run dry for extended periods of time without damage. The flowrate is varied by regulating the air supply.

PERFORMANCE DATA

» Flow (min/max):	.....	0 gpm / 250 gpm
» Minimum Shutoff Head:	.....	46 ft (20 psi) ⁽¹⁾
» Maximum Shutoff Head:	.....	230 ft (100 psi) ⁽¹⁾
» Air Pressure (min/max):	.....	20 psi / 100 psi
» Maximum Suction Lift:	.....	24 ft ⁽²⁾
» Maximum Temperature:	.....	212° F
» Maximum Solids Size:	.....	3"
» Displacement:	.....	1.62 gals/stroke

PHYSICAL SPECIFICATIONS

» Suction Flange:	.....	3" 125# ASA Flange
» Discharge Flange:	.....	3" 125# ASA Flange
» Air Inlet/Exhaust Port:	.....	¾" NPT (female)
» Overall Height:	.....	2'-6"
» Overall Width:	.....	3'-1"
» Air Exhaust Port:	.....	¾" NPT (female)
» Overall Depth:	.....	1'-5"
» Total Weight:	.....	245 lbs.

MATERIAL SPECIFICATIONS

» Manifold Elbow:	.....	(SS) - 316 stainless steel (AL) - Aluminum
» Outer Chamber:	.....	(SS) - 316 stainless steel (AL) - Aluminum
» Inner Chamber:	.....	(SS & AL) - Aluminum
» Outer Diaphragm Plate:	.....	(SS) - 316 stainless steel (AL) - Plated steel
» Inner Diaphragm Plate:	.....	(SS & AL) - Plated steel
» Intermediate Housing:	.....	(SS & AL) - Aluminum
» Diaphragm Rod:	.....	(SS & AL) - 416 stainless steel
» Valve Seat:	.....	(SS & AL) - 316 stainless steel
» Hardware:	.....	(SS & AL) - Plated steel
» Diaphragm:	.....	(SS & AL) - Viton
» Flap Valves:	.....	(SS & AL) - Viton
» Sealing Rings:	.....	(SS & AL) - Viton

Notes:

⁽¹⁾ Based on 1.0 specific gravity

⁽²⁾ For suction lifts exceeding 10 feet, fill the chambers with liquid prior to priming