

AIR OPERATED DOUBLE DIAPHRAGM PUMPS



METALLIC

PORT SIZE & TYPE	MAXIMUM FLOW	MAXIMUM PRESSURE	FLUID CHAMBERS & MANIFOLD MATERIALS	FLUID INLET/OUTLET CONNECTIONS	MAXIMUM SOLIDS SIZE	MAXIMUM SUCTION LIFT
1/2" (UP05)	54 l/min (14,3 gal/min)	8 bar (120 psi)	Aluminum 316 Stainless Steel	1/2" BSP (F) or NPT (F) Threaded	2,5 mm (3/32")	5 m Dry (16 ft) 8 m Wet (26 ft)
1" (CP10)	130 l/min (35 gal/min)	8 bar (120 psi)	Aluminum	1" BSP (F) or NPT (F) Threaded	3,2 mm (1/8")	5 m Dry (16 ft) 8 m Wet (26 ft)
1" (UP10)	200 l/min (53 gal/min)	8 bar (120 psi)	Aluminum 316 Stainless Steel	1" BSP (F) or NPT (F) Threaded	6,4 mm (1/4")	5 m Dry (16 ft) 8 m Wet (26 ft)
1-1/2" (UP15)	470 l/min (125 gal/min)	8 bar (120 psi)	Aluminum	1-1/2" BSP (F) or NPT (F) Threaded	6,4 mm (1/4")	6 m Dry (19.7 ft) 8 m Wet (26 ft)
2" (UP20)	650 l/min (172 gal/min)	8 bar (120 psi)	Aluminum, 316 Stainless Steel, Ductile Iron	2" BSP (F) or NPT (F) Threaded 2" ANSI/DIN Flange	6,4 mm (1/4")	5 m Dry (16 ft) 8 m Wet (26 ft)
3" (UP30)	1.000 l/min (264 gal/min)	8 bar (120 psi)	Aluminum 316 Stainless Steel, Ductile Iron	3" BSP (F) or NPT (F) Threaded 3" ANSI/DIN Flange	12,7 mm (1/2")	6 m Dry (19.7 ft) 9 m Wet (29.5 ft)



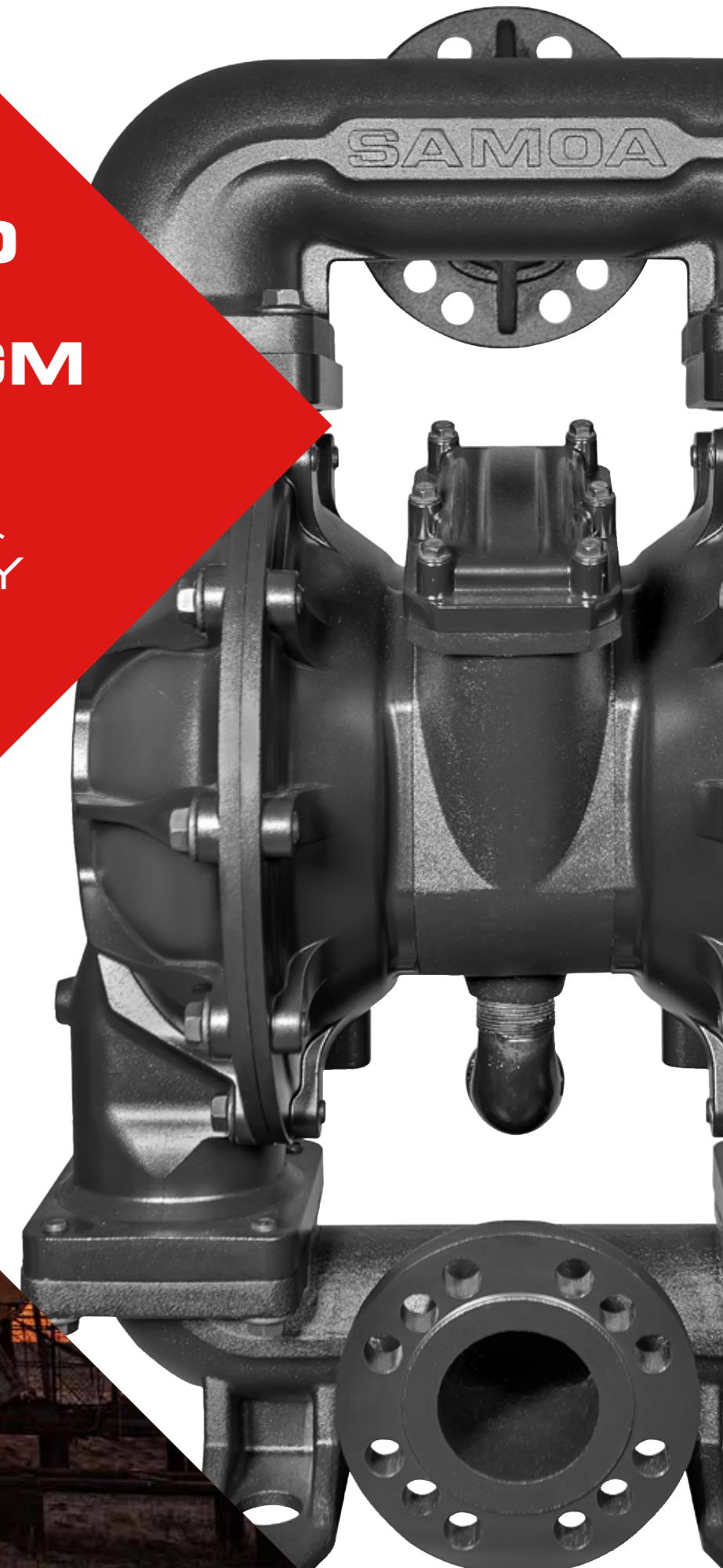
NON-METALLIC

PORT SIZE & TYPE	MAXIMUM FLOW	MAXIMUM PRESSURE	FLUID CHAMBERS & MANIFOLD MATERIALS	FLUID INLET/OUTLET CONNECTIONS	MAXIMUM SOLIDS SIZE	MAXIMUM SUCTION LIFT
3/8" (UP03)	31 l/min (8,2 gal/min)	7 bar (100 psi)	Polypropylene, Conductive Acetal, PVDF, Conductive Polypropylene	3/8" BSP (F) or NPT (F) Threaded	1,6 mm (1/16")	3 m Dry (10 ft) 7 m Wet (23 ft)
1/2" (UP05)	51 l/min (13,5 gal/min)	7 bar (100 psi)	Polypropylene, Conductive Acetal, PVDF, Conductive Polypropylene	1/2" BSP (F) or NPT (F) Threaded and split dual ports version	2,5 mm (3/32")	5 m Dry (16 ft) 8 m Wet (26 ft)
1" (UP10)	200 l/min (53 gal/min)	7 bar (100 psi)	Polypropylene, PVDF, Conductive Polypropylene	1" BSP (F) or NPT (F) Threaded 1" ANSI/DIN Flange (Central or Lateral)	6,4 mm (1/4")	5 m Dry (16 ft) 8 m Wet (26 ft)
1-1/2" (UP15)	420 l/min (111 gal/min)	8 bar (120 psi)	Polypropylene, PVDF	1-1/2" ANSI/DIN Flange (Central or Lateral)	6,4 mm (1/4")	5,5 m Dry (18 ft) 9 m Wet (29.5 ft)
2" (UP20)	650 l/min (172 gal/min)	7 bar (100 psi)	Polypropylene, PVDF, Conductive Polypropylene	2" ANSI/DIN Lateral Flange	6,4 mm (1/4")	5 m Dry (16 ft) 8 m Wet (26 ft)

*Maximum free delivery and displacement per cycle may vary depending on the fluid pumped, the pressure loss and the diaphragms material.
Diaphragms are available in Buna-N (NBR), Santoprene®, Hytrel®, PTFE and FKM.
Valve Balls are available in Buna-N (NBR), Santoprene®, Hytrel®, PTFE, FKM and Stainless Steel.
Valve Seat are available in Buna-N (NBR), Santoprene®, Hytrel®, PTFE, FKM, Aluminium, Stainless Steel and Polypropylene.

AIR OPERATED DOUBLE DIAPHRAGM PUMPS

FOR THE OIL & GAS INDUSTRY



AIR OPERATED DOUBLE DIAPHRAGM PUMPS

Air Operated Double Diaphragm pumps are very versatile pumps, suitable for a wide variety of applications. Their simple design and various material configuration options make them capable to many applications.

Why choose an AODD pump in the Oil & Gas industry?

- Dry running capability.
- Can pump clean fluids or with suspended solids.
- Best pump for corrosive, abrasive, and shear sensitive fluids.
- On-demand operation, the pump starts and stops automatically when the fluid outlet is open or closed.
- Adjustable flow and discharge pressure with only one air pressure regulator.
- Intrinsically safe: No electrical requirements or hazards.



Why choose SAMOA PIVOT SERIES Diaphragm Pumps?

HIGHER EFFICIENCY: Maximum fluid flow with reduced air consumption, versus competitive pumps.

INCREASED RELIABILITY: No stall, no icing, and reliable start-up even with the lowest air pressure.

MINIMAL VIBRATION AND PULSATION: Thanks to the fast action Frictionless Pivot air valve.

BOLTED CONSTRUCTION: Provides better seal and eliminates pump leaks. Same size bolts in covers and manifolds for easier maintenance.

EASIER SERVICING: Externally serviceable air valve, with a cartridge design for easy repairs and replacements.

UNIVERSAL PUMP: Matches relative dimension of main competitive brands. Direct replacement for existing installed pumps.

ABRASION RESISTANT: Optimized design manifolds and fluid paths reduce fluid speed and minimize wear caused by abrasion.

OIL & GAS APPLICATIONS

TANK CLEANING: Transfer of alkaline detergents, solvent degreasers, and caustic based cleaners.

TANK BOTTOM RECIRCULATION: Keep oil, paraffins, and natural gas liquids (NGLs) from separating in the tank. Transfer mixture from tank to tank to maintain consistency.

FLARE KNOCKOUT: Collecting natural gas liquids (NGLs) from the gas stream prior to flare. Transfer NGLs back into the process or into a storage tank.

SUMP TRANSFER: Clearing out sumps that contain rainwater, condensation and waste oil from well site.

GLYCOL HEAT TRACE: Circulation of Glycol to protect pipes and equipment from freezing.

CELLAR PUMP OUT: Clearing out drilling mud, fracking liquids from cellar or settling ponds.

TOTE AND DRUM UNLOADING: Chemical, fuel and oil unloading.



THE AIR VALVE MAKES THE DIFFERENCE

PIVOT SERIES Diaphragm Pumps incorporate a simple but effective air valve. A patented Frictionless Pivot Air Valve combined with the "Smooth-Start-Shifter" (3S) actuator provides a very reliable operation, with no stall and no icing, even in the toughest working conditions.

The air valve with no friction provides the fastest reciprocating action in the industry against a conventional spool or sliding block valves. This contributes to produce a smoother flow and reduced vibration when compared to many competitor AODD pumps.

