

# 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)

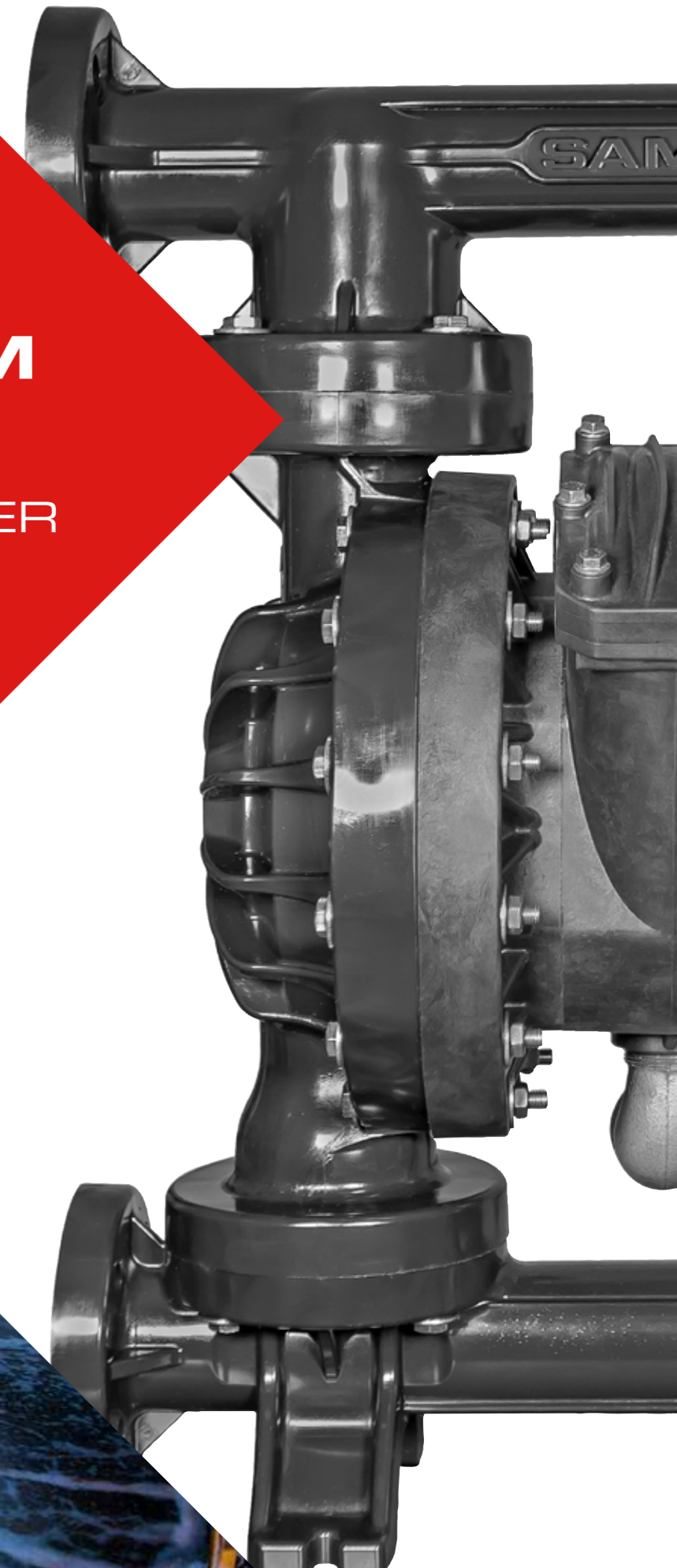
NON-METALLIC

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 WASTEWATER TREATMENT



## 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 for Wastewater Treatment?

- 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.



## WASTEWATER TREATMENT APPLICATIONS

**WASTE TRANSFER:** Safe handling of hazardous waste due to the wide range of chemical compatibility.

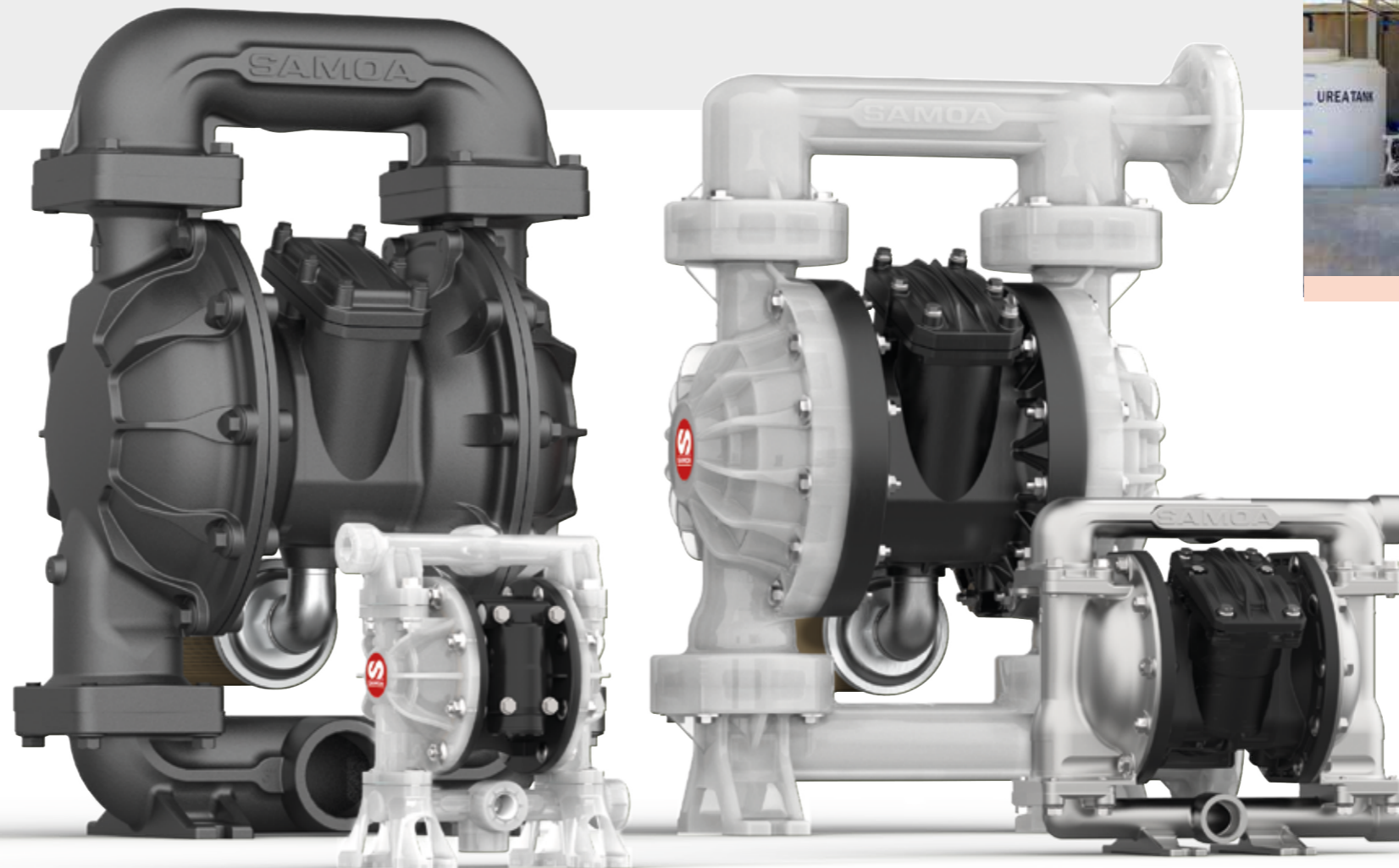
**SLUDGE TRANSFER PUMP:** Self priming vacuum action pulls sludge from bottom of clarification tanks.

**FILTER PRESS PUMP:** Safely filter process liquid or wastewater during liquid-solid separation.

**MUNICIPAL UTILITY:** Portable pumps that hand solids in dewatering or clearing out sumps.

**CHEMICAL TRANSFER/ DOSING:** Bulk transfer of chemicals from totes and drums or used to quickly dose chemicals for large changes in the wastewater chemistry (example: pH adjustments).

**MOBILE TREATMENTS:** Truck mounted or skid mounted pumps for mobile treatment systems or to transfer to a tanker for offsite processing.



### 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.

### 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.



 SAMOA