UP05 - PIVOT Series

1/2" Air-operated double diaphragm pump



TECHNICAL DATA

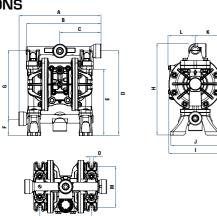
	NON-METALLIC			
PRESSURE RATIO	1:1			
MAXIMUM FREE DELIVERY	54 I/min (14.3 US gal/min)			
AIR PRESSURE OPERATING RANGE*	1,5 to 7 bar (20 to 100 psi)			
MAX. SIZE SOLIDS IN SUSPENSION	2,5 mm (3/32")			
MAXIMUM DRY SUCTION LIFT	5 m (16')			
MAXIMUM WET SUCTION LIFT	8 m (26')			
DISPLACEMENT PER CYCLE**	0,15 (0,04 gal)			
FLUID INLET AND OUTLET CONNECTIONS (MULTIPORTS)	1/2" NPT (F) Threaded / 1/2" BSP (F) Threaded			
AIR INLET CONNECTION	1/4" NPSM (F)			
AIR EXHAUST CONNECTION	1/2" NPT (F)			
SOUND LEVEL	75 dB (A) @ 50 cycles/min @ 5 bar			
WEIGHT: POLYPROPYLENE CONDUCTIVE POLYPROPYLENE PVDF CONDUCTIVE ACETAL	2,7 kg (6 lb) 3 kg (6.6 lb) 3,7 kg (8.2 lb) 3,3 kg (7.3 lb)			

^{*} Minimum working air pressure may vary depending on the diaphragm material.

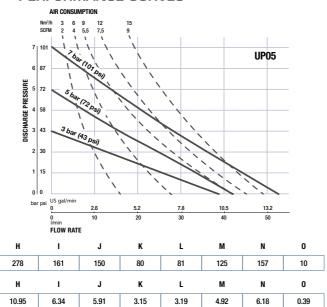
DIMENSIONS

UP05 PUMP

UP05 PUMP



PERFORMANCE CURVES



THREADED PUMPS

200

7.87



9.84

8.98

4.92



10.12



51

2.01

206

8.11



CONDUCTIVE

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SAMOA INDUSTRIAL, S.A. - PROCESS DIVISION

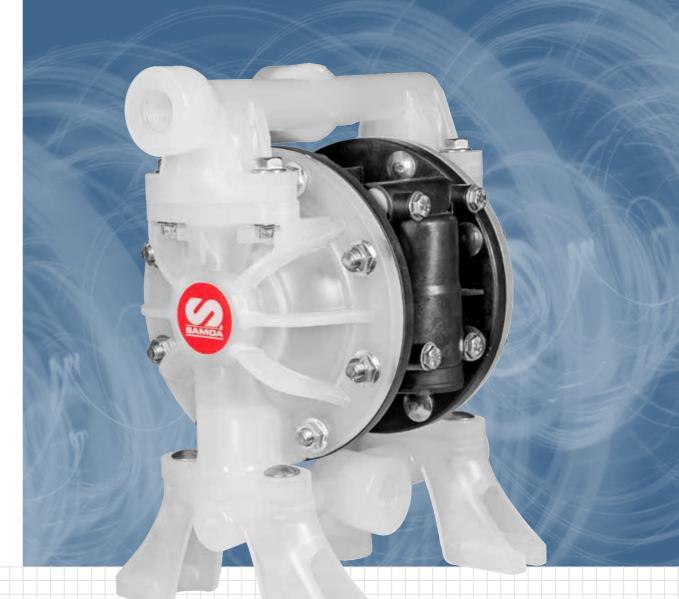
SAMOA

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UP05 Non-Metallic PIVOT SERIES



1/2" Air-Operated Double Diaphragm Pump







^{**}Delivery per cycle depends on the diaphragms material, air inlet pressure and fluid viscosity

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UP05 - PIVOT Series

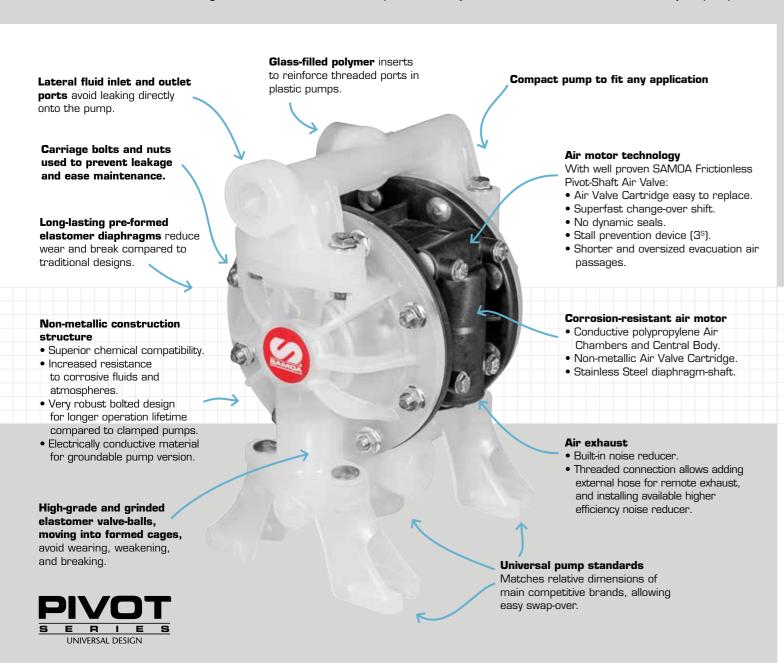
1/2" Air-operated double diaphragm pump



The new SAMOA UPO5 pump combines a Universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and **energy efficiency**, exceeding market expectations.

UP05 Non-metallic pumps make the difference through:

- HIGHER EFFICIENCY. Maximum fluid flow with reduced air consumption.
- INCREASED RELIABILITY. No stall, no icing, reliable start-up and longer air valve and diaphragms life.
- MAXIMUM VERSATILITY. Polypropylene, Conductive Polypropylene, PVDF and Conductive Acetal pumps with a wide range of diaphragms, seats and balls options offer broad fluid and application compatibility. Highly suitable for aggressive chemicals with presence of abrasives.
- **EASY SERVICING.** Simplified maintenance and cleaning. The pump is held together by carriage bolts and nuts allowing to accomplish a much faster tear down and rebuild.
- ULTRA-COMPACT DESIGN. Ready to meet any OEM application needs. Multi-port manifolds: central and lateral openings.
- CONNECTIVITY. Can be configured to connect a Smart Pump-Controller System to actuate, control and monitor your pumps.



Exclusive frictionless PIVOT-SHAFT Air Valve



Incredibly fast changeover shift:

- High flow delivery.
- Smooth pump operation.
- Reduced flow pulsation.
- No pump vibration.
- Reduced air consumption.

Patented Smooth Start Shifter (3^S):

- Low-pressure start up.
- No stall operation.

Shorter and oversized evacuation air passages:

- No icing, even during long pump runs at high pressure.
- No whistle noise.

Long-life Pivot-Pads (shift and evacuation)

Modular air valve:

- Pivot-Shaft cartridge design
- Precision machined cartridge and Pivot-Shaft.
- · Quick teardown for cleaning and repair.

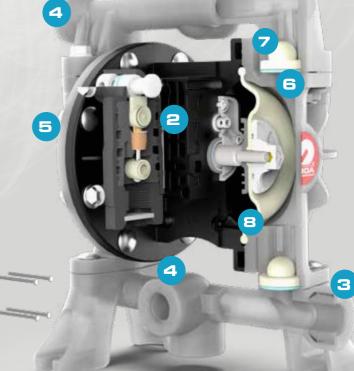
No dynamic seals:

- No parts subject to wear.
- Reliably work with dry or humid air.
- No lubrication required.





SAMOA



AVAILABLE MATERIALS

SAMOA offers a wide range of material options for chemical compatibility and to withstand abrasion, temperature and fatigue caused by demanding conditions.

Example: UP05X-XXX-XXX

UP05X		ХХХ			ХХХ		
PUMP TYPE	AIR MOTOR	HOUSINGS			WETTED PARTS		
Pump Type & Size	Central Body & Air Chambers	Fluid Ports / Location Multiport manifolds: central and lateral	4 Fluid Chambers & Manifolds	Hardware Bolts & Inserts	6 Valve Seats	Valve Balls	Biaphragms Type & Material
J P05 Jniversal Pump Bolted)	**Ex** ATEX Certified B* = Conductive Polypropylene (black)	B = 1/2" BSP threaded ports N = 1/2" NPT threaded ports	P = Polypropylene (white) W = PVDF (Kynar®) (white) Ex ATEX Certified B* = Conductive Polypropylene (black) D* = Conductive Acetal (black)	S = Stainless Steel	C = Acetal P = Polypropylene W = PVDF	H = Hytrel® M = Santoprene® N = Nitrile (Buna-N) T = PTFE (Teflon®) V = FKM (Viton®)	A = Santoprene® C = Hytrel® G = Nitrile (Buna-N) V = FKM (Viton®) Two piece Z = PTFE (Teflon with Santoprene® backer)

* ATEX Certified pumps for use in hazardous locations ATEX Group II 2GDx.

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