UP05 - PIVOT Series 1/2" Air-operated double diaphragm pump

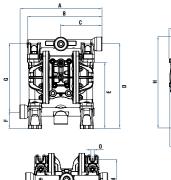


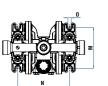
TECHNICAL DATA

| | 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) |

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







228

R

8.98

125

C

4.92

257

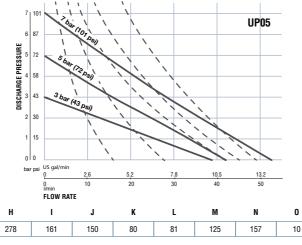
п

10.12

250

Α

9.84



м

4.92

6.18

0.39

PERFORMANCE CURVES

J

5.91

K

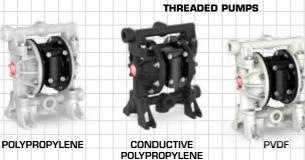
3.15

1

3.19

AIR CONSUMPTIO





SAMOA

SAMOA INDUSTRIAL, S.A. - PROCESS DIVISION

Pol. Ind. Porceyo, I-14 • Camino del Fontán, 831 E-33392 GIJÓN (Asturias) SPAIN Tel.: +34 985 381 488 - Fax: +34 985 147 213 flow@samoaindustrial.com • www.samoaindustrial.com **CONTACT US TODAY!** Visit: www.samoaindustrial.com for more information.

G

206

G

8.11

н

10.95

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6.34

CONDUCTIVE

ACETAL

51

F

2.01

200

F

7.87



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DIMENSIONS (mm

DIMENSIONS (inches)

UP05 PUMP

UP05 PUMP

UP05 Non-Metallic **PIVOT SERIES**









UP05 - PIVOT Series

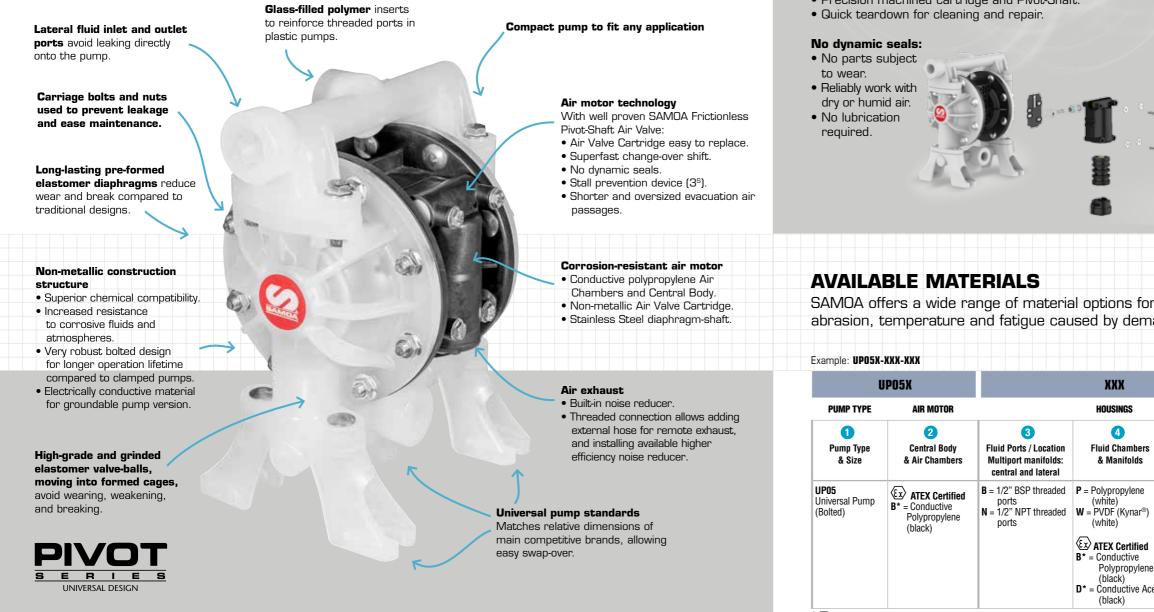
1/2" Air-operated double diaphragm pump



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.



NO VIBRATION | PROVEN SUPERIOR PERFORMANCE | RELIABLE | DURABLE | LOWER CONSUMPTION | UNIVERSAL

Exclusive frictionless PIVOT-SHAFT Air Valve

estented .

- 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.

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

4

D* = Conductive Acetal (black) * (£x) ATEX Certified pumps for use in hazardous locations ATEX Group II 2GDx.

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6 G A ß Hardware Bolts Valve Balls Diaphragms Type & Valve Seats Material & Inserts S = Stainless Steel C = Acetal H = Hvtrel® A = Santoprene® M = Santoprene® P = Polypropylene C = Hytrel® **T** = PTFE (Teflon[®]) N = Nitrile (Buna-N) **G** = Nitrile (Buna-N) = PTFE (Teflon®) V = FKM (Viton[®]) V = FKM (Viton® Two piece **Z** = PTFE (Teflon with Santoprene® backer)

WETTED PARTS