### **UP10 - PIVOT Series 1**" Air-operated double diaphragm pump



S

S

3.05 3.29 0.59

PVDF

т

т

83,5 15

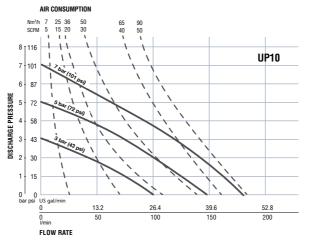
R

77,5

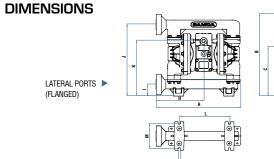
R

### **TECHNICAL DATA**

	NON-METALLIC UP10 - PIVOT SERIE		
PRESSURE RATIO	1:1		
MAXIMUM FREE DELIVERY	200 l/min (53 US gal/min)		
AIR PRESSURE OPERATING RANGE	1,5 to 7 bar (20 to 100 psi)		
MAX. SIZE SOLIDS IN SUSPENSION	6,4 mm (1/4")		
MAXIMUM DRY SUCTION LIFT	5 m (16')		
MAXIMUM WET SUCTION LIFT	8 m (26')		
DISPLACEMENT PER CYCLE*	0,85   (0,2 gal)		
FLUID INLET AND OUTLET CONNECTIONS (CENTRAL OR LATERAL)	1" BSP or NPT (F) Threaded FLANGE DIN DN25 or ANSI 1"		
AIR INLET CONNECTION	1/2" NPSM (F)		
AIR EXHAUST CONNECTION	1" NPT (F)		
SOUND LEVEL	75 dB (A) @ 50 cycles/min @ 5 bar		
WEIGHT: POLYPROPYLENE CONDUCTIVE POLYPROPYLENE PVDF	Threaded 10,2 kg (22.5 lb) 11,6 kg (25.6 lb) 13,5 kg (29.8 lb)	Flanged 10,5 kg (23.1 lb) 12 kg (26.4 lb) 14,1 kg (31.1 lb)	



PERFORMANCE CURVES



A

425

399

399

Α

16.73

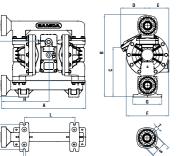
15.71

415

386

В

16.34



D

135

135

п

5.32

Е

108

108

4.25

F

214

214

8.43

PVDF

G

146

146

5.75

н

241

56

211

<u>4</u>0

н

9.49 2.21

1

59

59

1

2.32

J

363

363

J

14.29

Κ

280

280

K

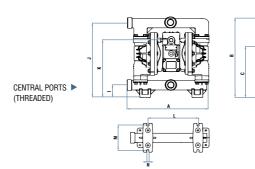
11.02

C

250

250

9.84



L

255

255

L

10.04

М

128

128

М

5.04

CONDUCTIVE

Ν

11

11

Ν

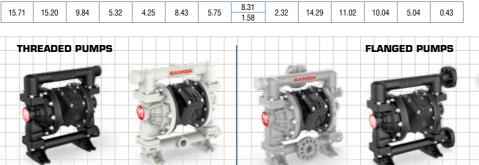
0.43

### DIMENSIONS (mm) LATERAL-FLANGED PUMP

CENTRAL-FLANGED PUMP LATERAL-THREADED PUMP

CENTRAL-THREADED PUMP DIMENSIONS (inches) LATERAL-FLANGED PUMP

CENTRAL-FLANGED PUMP LATERAL-THREADED PUMP CENTRAL-THREADED PUMP





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### **CONTACT US TODAY!**

Visit: www.samoaindustrial.com for more information.

POLYPROPYLENE

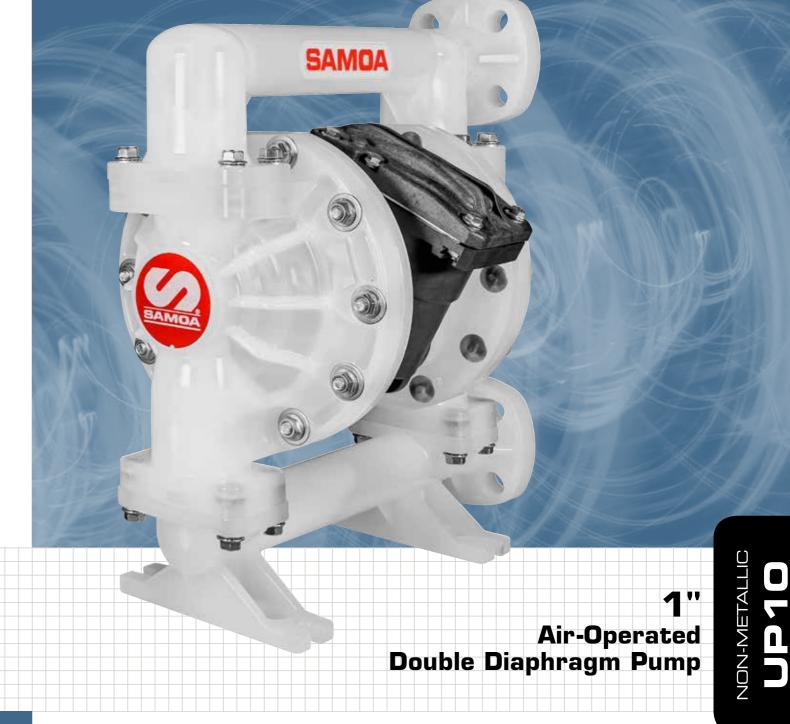






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# **UP10** Non-Metallic **PIVOT SERIES**





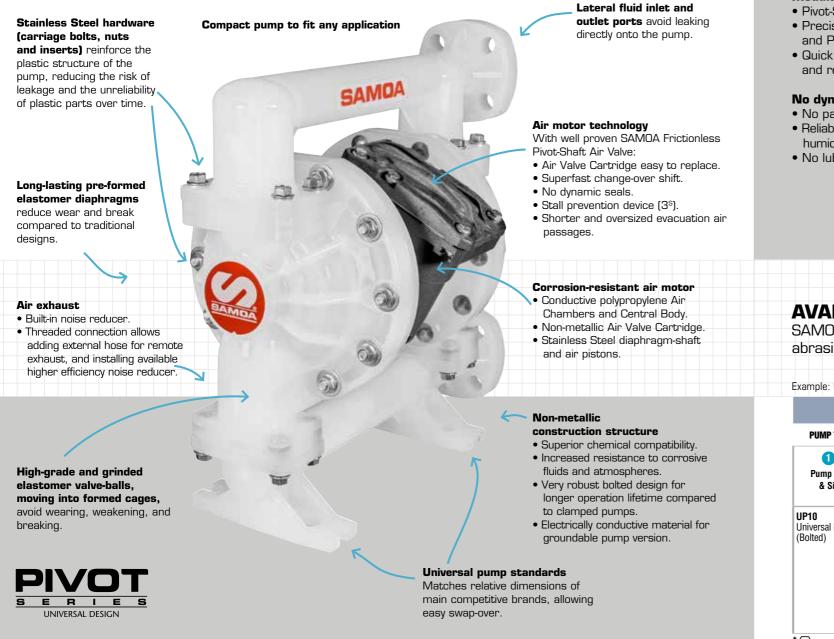
## **UP10 - PIVOT Series**

### **1**" Air-operated double diaphragm pump

The new SAMOA UP10 pump combines a Universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and **energy efficiency**, exceeding market expectations.

### UP10 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.** Threaded or flanged Polypropylene, Conductive Polypropylene and PVDF 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.
- COMPACT DESIGN.
- 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

### 200 l/min 53 gal/min



## **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<sup>S</sup>):

- 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.

### **AVAILABLE MATERIALS**

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

UP10X		ХХХ		
PUMP TYPE	AIR MOTOR	HOUSINGS		
1 Pump Type & Size	Central Body & Air Chambers	3 Fluid Ports / Location Multiport manifolds: central and lateral	4 Fluid Chambers & Manifolds	
<b>UP10</b> Universal Pump (Bolted)	Ex ATEX Certified B* = Conductive Polypropylene (black)	Central ports C = 1" ANSI/DIN flanged ports B = 1" BSP threaded ports N = 1" NPT threaded ports Lateral ports F = 1" ANSI/DIN flanged ports P = 1" BSP threaded ports T = 1" NPT threaded ports	P = Polypropylene (white) W = PVDF (Kynar®) (white) €x ATEX Certified B* = Conductive Polypropylene (black)	S

(EX) **ATEX Certified pumps** for use in hazardous locations ATEX Group II 2GDx. Hytrel® is a registered trademark of the DuPont Company, Viton® & Teflon® of the Chemours Company and Santoprene® of the Monsanto Company, licensed for Advanced Elastomer Systems, L.P. Kynar® is a registered trademark of Arkema, Inc.



#### XXX

WETTED PARTS 7 A A A Hardware Bolts Valve Seats Valve Balls Diaphragms Type & & Inserts Material P = Polypropylene T = PTFE (Teflon<sup>®</sup>) = Stainless Steel H = Hytrel® A = Santoprene® M = Santoprene® C = Hytrel® N = Nitrile (Buna-N) **G** = Nitrile (Buna-N) T = PTFE (Teflon®) **V** = FKM (Viton<sup>®</sup>) V = FKM (Viton®) Two niece Z = PTFE (Teflon with Santoprene<sup>®</sup> backer)