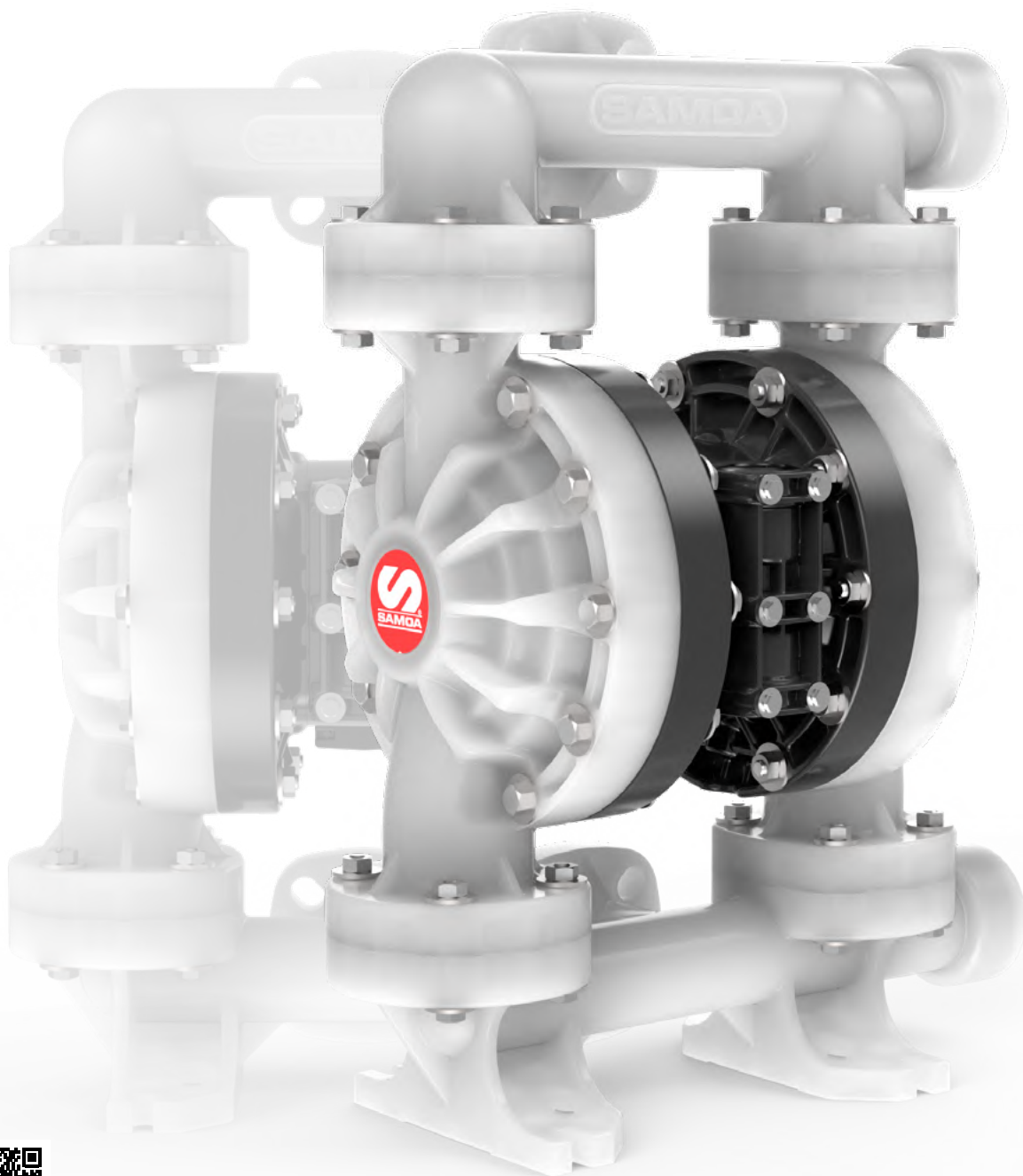


**PIVOT**  
S E R I E S  
UNIVERSAL DESIGN

 **SAMOA**  
LEADING THROUGH INNOVATION

# UP15 Non-Metallic

**1 1/2" Air-Operated  
Double Diaphragm Pump**



NON-METALLIC  
**UP15**



You Tube

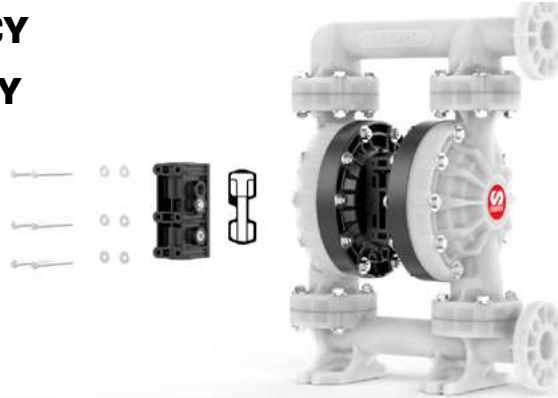
# UP15 - PIVOT Series

## 1 1/2" Air-operated double diaphragm pump

**125 gal/min**  
**470 l/min**

Introducing the SAMOA UP15 non-metallic pump: an innovative design powered by a unique air motor that sets new standards in performance and energy efficiency.

- **MAXIMUM EFFICIENCY**
- **SUPERIOR RELIABILITY**
- **EASY SERVICING**



YouTube

See how simple the maintenance is!

### PIVOT SERIES

UNIVERSAL DESIGN

#### Bolted multi-port construction

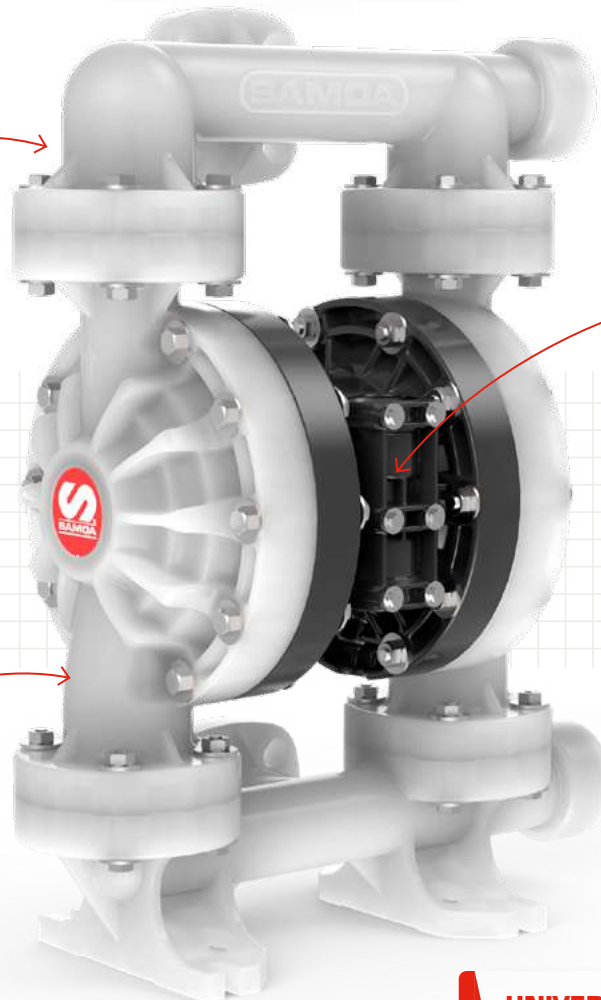
- Bolts maintain uniform pressure on the seals and diaphragms, ensuring reliable fluid containment and leak prevention during high-pressure and dead-head conditions.
- Withstands four times the pressure versus clamped pumps.
- Single-sized bolts simplify maintenance.

#### High-grade materials

- Durable diaphragms shaft.
- Long-lasting, preformed diaphragms reduce wear and avoid breakage.
- Ground elastomer balls, moving into formed cages, avoid wearing and breaking.

#### Innovative Air Distribution System

- Frictionless; with no wear components
- Fast valve changeover reduces vibration and pulsation
- Anti-stall design thanks to the 3S actuator
- Reduced air consumption



#### UNIVERSAL PUMP STANDARDS

Matches relative dimensions of main competitive brands, allowing easy swap-over.



LUBE FREE  
OPERATION



NO VIBRATION



REDUCED FLOW  
PULSATION



ICE FREE  
EXHAUST



REDUCED AIR  
CONSUMPTION

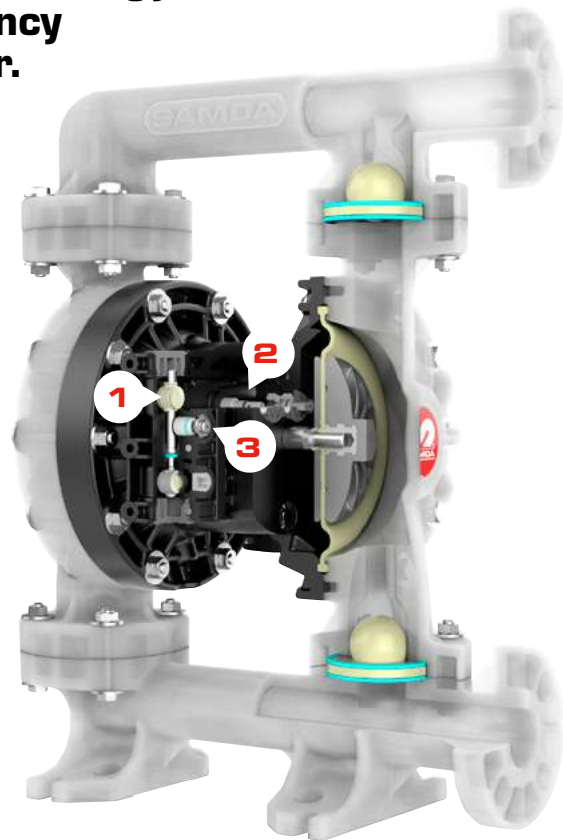
# PIVOT Series Air Distribution System

# 3<sup>S</sup>

Smooth-Start-Shifter

Patent pending

**Advanced and patented air motor technology that provides superior energy efficiency compared to any other manufacturer.**



### Modular Air Motor Design:

- Quick disassembly for cleaning and repair.
- The fewest possible parts for minimal maintenance.

#### 1 Pivot-Shaft Air Valve:

- Precision-machined for maximum reliability.
- Smooth pump operation.
- Optimized air passages to prevent icing.
- No dynamic seals avoid wear.

#### 2 Quick-Fill Valve:

- It enables rapid pivot change, reducing air consumption.
- High-Performance fast filling system.

#### 3 Smooth Start Shifter (3<sup>S</sup>):

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

## 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: **UP15X-XXX-XXX**  
**UE15X-XXX-XXX-XY**

NON-METALLIC  
**UP15**

UP15X		XXX			XXX			XY	
PUMP TYPE	AIR MOTOR	HOUSINGS			WETTED PARTS			ACCESSORIES	
1 Pump Type & Size	2 Central Body & Air Chambers	3 Fluid Ports / Location Multiport manifolds: central or lateral	4 Fluid Chambers & Manifolds	5 Hardware Bolts, Nuts & Inserts	6 Valve Seats	7 Valve Balls	8 Diaphragms Type & Material	9 Accessories (UE pumps only)	10 Air valve type (UE pumps only)
<b>UP15</b> Universal Pump (Bolted)  <b>UE15</b> Universal Pump (Bolted) with electronic interface	P= Reinforced Polypropylene	<b>Central ports</b> C = 1 1/2" ANSI/DIN flanged ports  <b>Lateral ports</b> F = 1 1/2" ANSI/DIN flanged ports	P = Polypropylene W = PVDF	S = Stainless Steel	P = Polypropylene W = PVDF	H = TPE (Hytrel®) M = TPV (Santoprene®) N = Nitrile (Buna-N) T = PTFE (Teflon®) V = FKM (Viton®)	<b>Conventional</b> A = TPV (Santoprene®) C = TPE (Hytrel®) G = Nitrile (Buna-N) V = FKM (Viton®)  <b>Two piece</b> Z = PTFE (Teflon®) with TPV (Santoprene®) backer	A = Diaphragm leak detectors C = Stroke sensor D = Stroke sensor (PLC) F = Diaphragm leak detectors + Stroke sensor G = Diaphragm leak detectors + Stroke sensor (PLC) 0 = Without accessories	0 = Standard air valve

Viton® & Teflon® is a registered trademark of the Chemours Company, Santoprene® and Hytrel® is a registered trademark of the Celanese Corporation, L.P. Kynar® is a registered trademark of Arkema, Inc.

Contact us for more information about connected pumps' configuration.

# UP15 - PIVOT Series

## 1 1/2" Air-operated double diaphragm pump

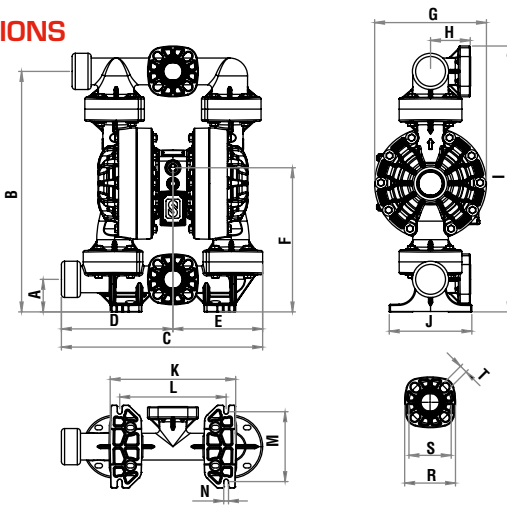
### TECHNICAL DATA

### NON-METALLIC UP15

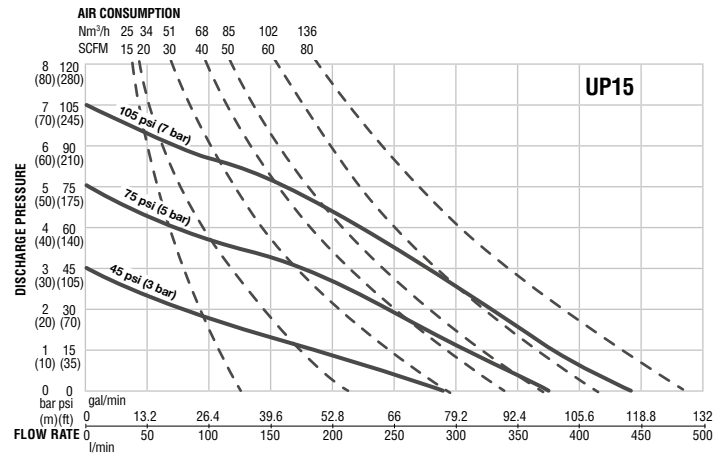
PRESSURE RATIO	1:1
MAXIMUM FREE DELIVERY	125 US gal/min (470 l/min)
AIR PRESSURE OPERATING RANGE	20 to 100 psi (1,5 to 7 bar)
MAXIMUM SIZE SOLIDS IN SUSPENSION	1/4" (6,4 mm)
MAXIMUM DRY SUCTION LIFT	16.4' (6 m)
MAXIMUM WET SUCTION LIFT	29.5' (9 m)
DISPLACEMENT PER CYCLE*	0.66 gal (2,5 l)
FLUID INLET AND OUTLET PORTS	1 1/2" ANSI/DIN
AIR INLET PORT	1/2" NPT (F)
AIR EXHAUST PORT	1" NPT (F)
SOUND LEVEL	75 dB (A) @ 50 cycles/min @ 70 psi (5 bar)
MATERIAL AND WEIGHT: Central Body/Fluid Chambers & Manifolds REINFORCED PP/PP REINFORCED PP/PVDF	47.8 lb (21,7 kg) 70 lb (31,3 kg)

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

### DIMENSIONS



### PERFORMANCE CURVES



### DIMENSIONS (inches)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R	S	T
UP15 CENTRAL FLANGED	3.23	23.86	19.96	11.06	8.90	14.29	11.10	3.94	26.38	8.19	12.44	10.55	6.93	0.47	5.04	3.87-4.33	0.79
UP15 LATERAL FLANGED	3.23	23.86	20.12	11.22	8.90	14.29	11.10	-	26.81	8.19	12.44	10.55	6.93	0.47	5.91	3.87-4.33	0.79

### DIMENSIONS (mm)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R	S	T
UP15 CENTRAL FLANGED	82	606	507	281	226	363	282	100	670	208	316	268	176	12	128	98,4-110	20
UP15 LATERAL FLANGED	82	606	511	285	226	363	282	-	681	208	316	268	176	12	150	98,4-110	20

### FLANGED PUMPS

NON-METALLIC  
**UP15**



POLYPROPYLENE



POLYPROPYLENE



PVDF



PVDF



**CONTACT US TODAY!**

Visit [www.samoaindustrial.com](http://www.samoaindustrial.com) for more information.

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