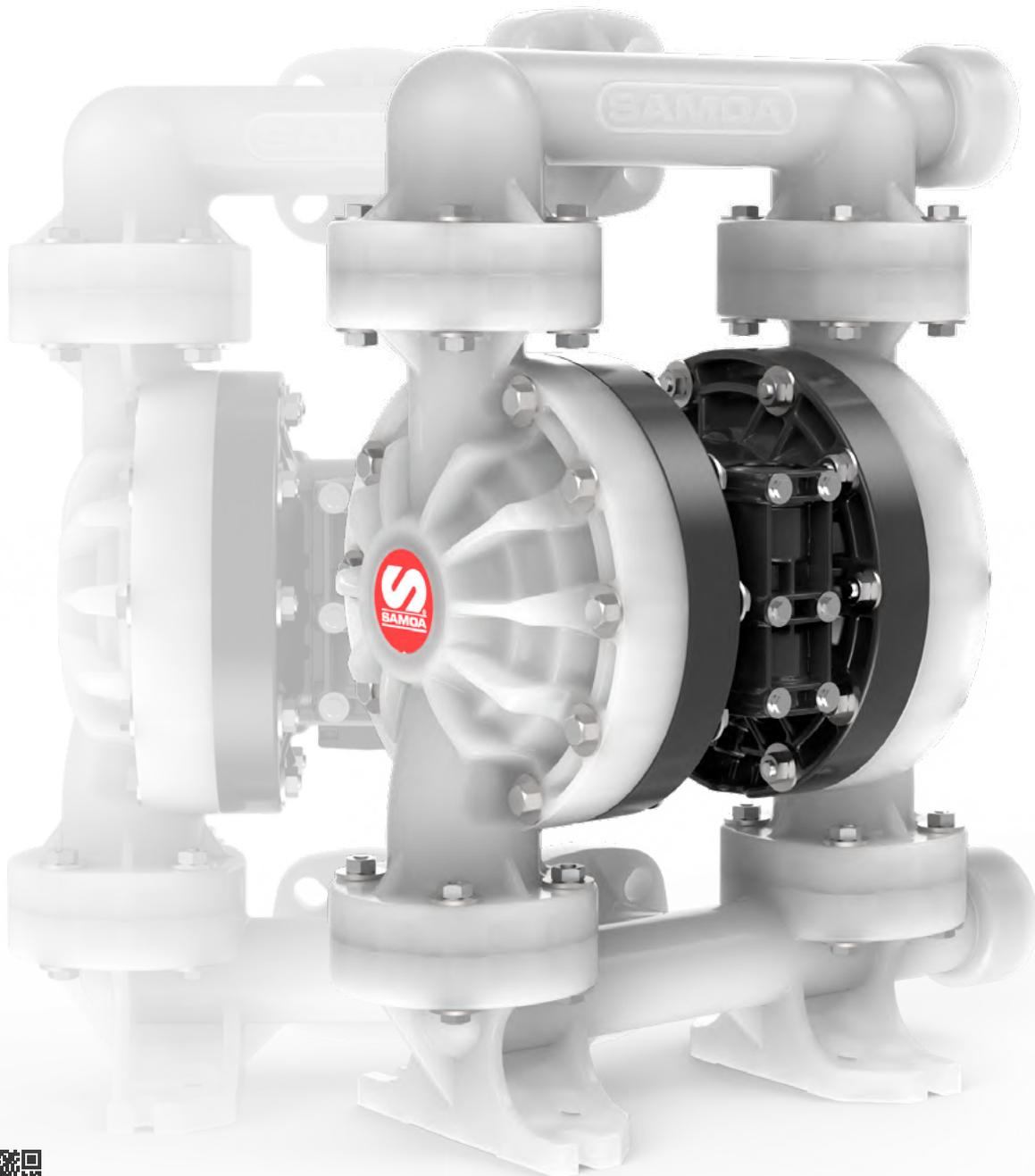


PIVOT
S E R I E S
UNIVERSAL DESIGN

 **SAMOA**
LEADING THROUGH INNOVATION

UP15 Non-Metallic

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



NON-METALLIC
UP15



YouTube

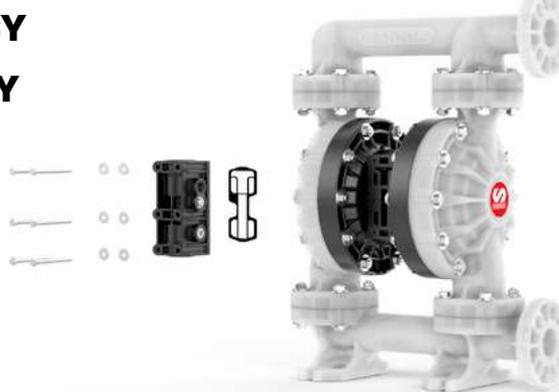
UP15 - PIVOT Series

1 1/2" Air-operated double diaphragm pump

470 l/min
125 gal/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**



See how simple the maintenance is!

YouTube

PIVOT

S E R I E S
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

Product pictures and specifications are subject to change without prior notice.

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^S

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:

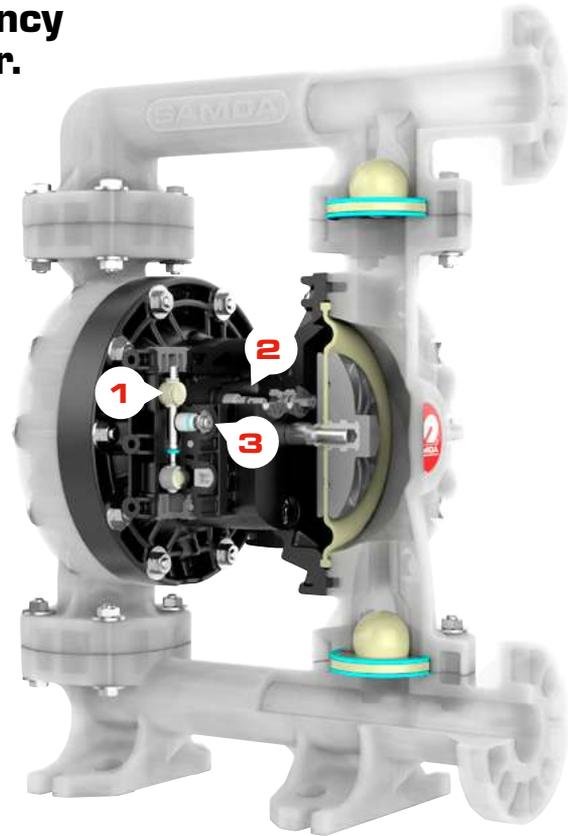
- Precision-machined for maximum reliability.
- Smooth pump operation.
- Optimized air passages to prevent icing.
- No dynamic seals avoid wear.

2 Quick-Fill Valve:

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

3 Smooth Start Shifter (3^S)

- 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

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)
UP15 Universal Pump (Bolted) UE15 Universal Pump (Bolted) with electronic interface	P= Reinforced Polypropylene	Central ports C = 1 1/2" ANSI/DIN flanged ports Lateral ports 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®)	Conventional A = TPV (Santoprene®) C = TPE (Hytrel®) G = Nitrile (Buna-N) V = FKM (Viton®) Two piece 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.

NON-METALLIC
UP15

UP15 - PIVOT Series

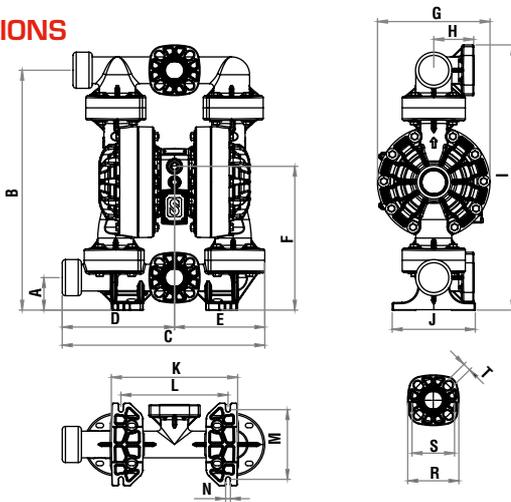
1 1/2" Air-operated double diaphragm pump

TECHNICAL DATA

	NON-METALLIC UP15
PRESSURE RATIO	1:1
MAXIMUM FREE DELIVERY	470 l/min (125 US gal/min)
AIR PRESSURE OPERATING RANGE	1,5 to 7 bar (20 to 100 psi)
MAXIMUM SIZE SOLIDS IN SUSPENSION	6,4 mm (1/4")
MAXIMUM DRY SUCTION LIFT	6 m (16.4')
MAXIMUM WET SUCTION LIFT	9 m (29.5')
DISPLACEMENT PER CYCLE*	2,5 l (0.66 gal)
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 @ 5 bar (70 psi)
MATERIAL AND WEIGHT: Central Body/Fluid Chambers & Manifolds	
REINFORCED PP/PP	21,7 kg (47.8 lb)
REINFORCED PP/PVDF	31,3 kg (70 lb)

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

DIMENSIONS



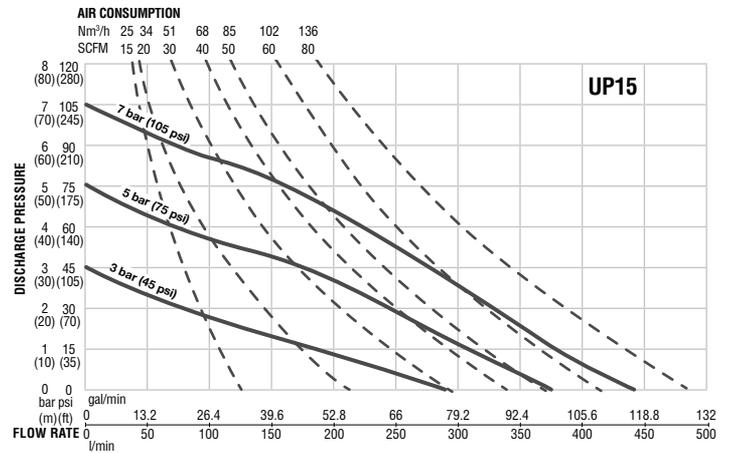
DIMENSIONS (mm)
UP15 CENTRAL FLANGED
UP15 LATERAL FLANGED

	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

DIMENSIONS (inches)
UP15 CENTRAL FLANGED
UP15 LATERAL FLANGED

	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

PERFORMANCE CURVES



FLANGED PUMPS

NON-METALLIC
UP15



POLYPROPYLENE



POLYPROPYLENE



PVDF



PVDF



CONTACT US TODAY!

Visit www.samoaindustrial.com for more information.

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