

UP15 - PIVOT Series

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

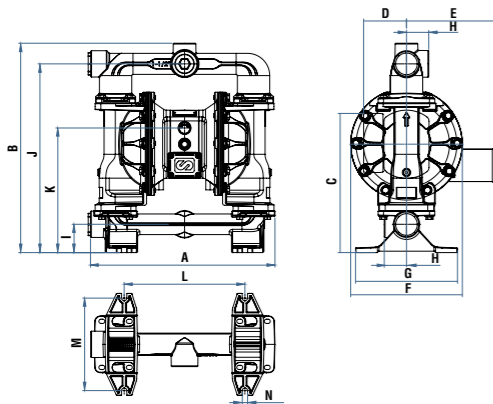


TECHNICAL DATA

	METALLIC UP15 - PIVOT SERIES
PRESSURE RATIO	1:1
MAXIMUM FREE DELIVERY	470 l/min (125 US gal/min)
AIR PRESSURE OPERATING RANGE	1,5 to 8 bar (22 to 120 psi)
MAXIMUM SIZE SOLIDS IN SUSPENSION	6,4 mm (1/4")
MAXIMUM DRY SUCTION LIFT	5,9 m (19.5')
MAXIMUM WET SUCTION LIFT	9 m (29.5')
DISPLACEMENT PER CYCLE*	2,5 l (0.66 gal)
FLUID INLET AND OUTLET CONNECTIONS (MULTIPOINTS)	1-1/2" BSP (F) - 1-1/2" NPT (F)
AIR INLET CONNECTION	1/2" NPT (F)
AIR EXHAUST CONNECTION	1" NPT (F)
SOUND LEVEL	82,8 dB (A) @ 60 cycles/min @ 70 psi
WEIGHT: ALUMINIUM	Threaded 22 kg (48.5 lb)

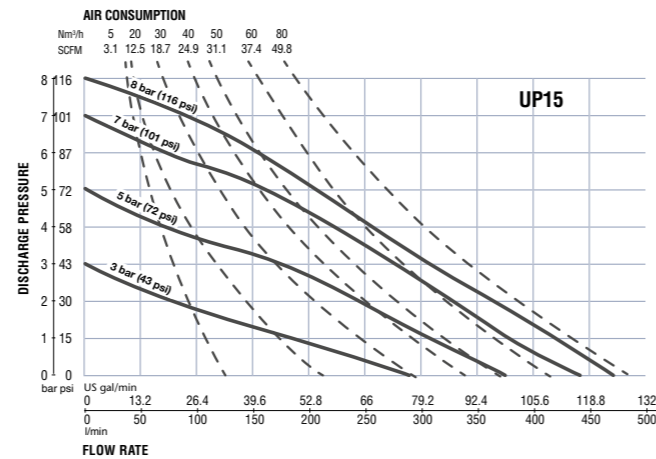
* Delivery per cycle depends on the diaphragms material, air inlet and fluid viscosity.

DIMENSIONS



DIMENSIONS (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
UP15 ALUMINIUM	455,5	517,5	344	106	220	276	252	55	70	466,5	308	298,5	228,6	13
DIMENSIONS (inches)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
UP15 ALUMINIUM	17.9	20.4	13.5	4.2	8.7	10.9	9.9	2.2	2.8	18.4	12.1	11.8	9	0.5

PERFORMANCE CURVES



THREADED PUMP



ALUMINIUM

Additional versions soon.

AVAILABLE 2025

UP15 Metallic

PIVOT SERIES



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

METALLIC
UP15



CONTACT US TODAY!
Visit: www.samoaindustrial.com for more information.



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UP15 - PIVOT Series

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

470 l/min
125 gal/min

Discover the SAMOA UP15 pump: a breakthrough in design with a **unique air motor** for unparalleled performance and energy efficiency, setting new benchmarks in the industry.

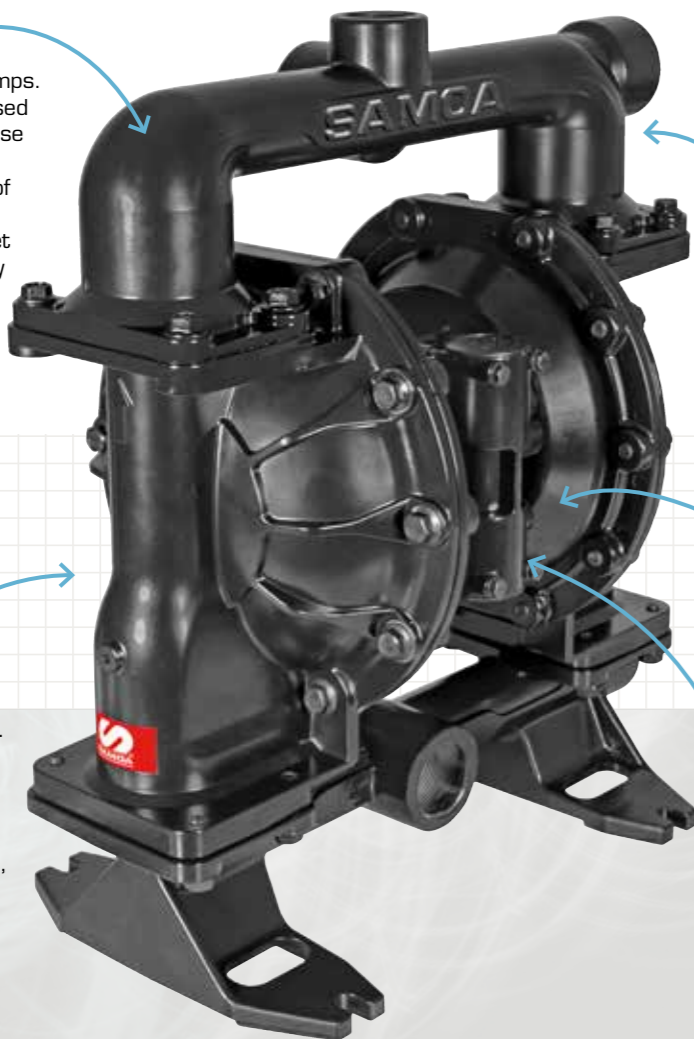
- **HIGHER EFFICIENCY**
- **SUPERIOR RELIABILITY**
- **EASY SERVICING**
- **UNIQUE FRICTIONLESS PIVOT-SHAFT**



Easy to service air valve

Bolted multi-port construction

- Longer operation lifetime compared to clamped pumps.
- Carriage bolts and nuts used to prevent leakage and ease maintenance.
- Same size bolts for ease of maintenance.
- Lateral fluid inlet and outlet ports avoid leaking directly onto the pump.



First-class quality and finishes

- External and internal e-coated manifolds, fluid chambers, air chambers and central body.
- Superior resistance to abrasion and outdoor working conditions.
- Better finish, scratch-resistant surfaces.

Innovative SAMOA patented Air Distribution System

Air exhaust

- Built-in noise reducer.
- Threaded connection allows adding external hose for remote exhaust, or for installing an available quieter muffler.

High-grade materials

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

UNIVERSAL PUMP STANDARDS

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

PIVOT
SERIES
UNIVERSAL DESIGN

PIVOT Series Air Distribution System

Advanced and exclusive air motor technology: more than 22% of energy savings compared to other technologies.*

Modular frictionless air valve:

- Precision machined cartridge and Pivot-Shaft.
- Quick teardown for cleaning and repair.
- Works reliably with dry or humid air.
- No dynamic seals.

1 Pivot-Shaft Air Valve:

- Fast shifting reduces air consumption.
- Smooth pump operation.
- No icing with large and direct exhaust passages.
- No whistle noises.

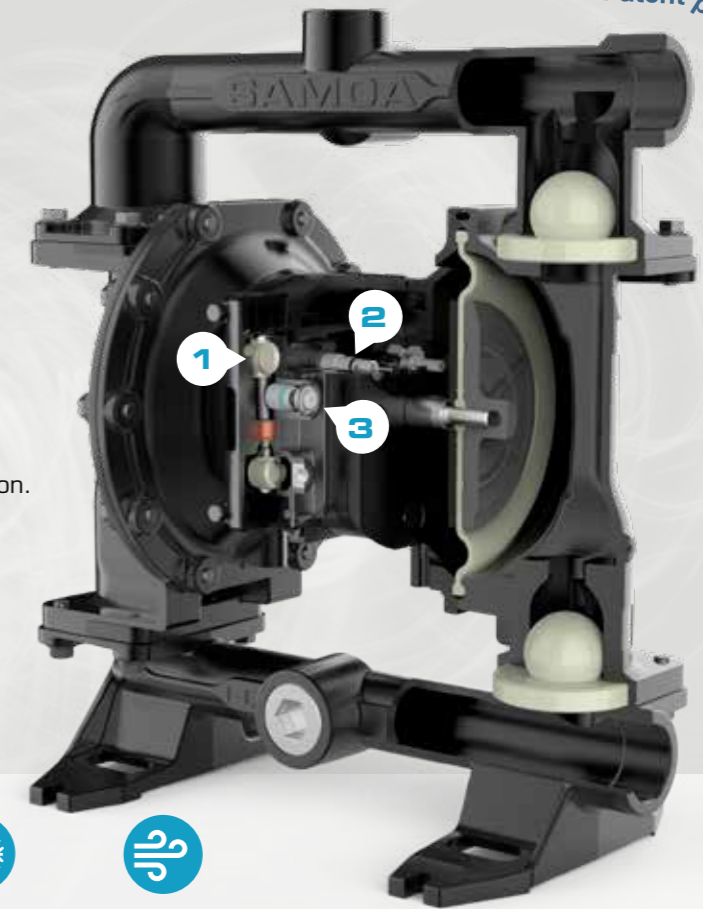
2 EcoBoost Valve:

- Precise air chamber filling reduces air consumption.

3 Smooth Start Shifter (3rd):

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

* Tested in SAMOA laboratories at 6 bar of inlet pressure and with 4 bar of pressure drop.



Patent pending



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**

UP15X		XXX			XXX		
PUMP TYPE	AIR MOTOR	HOUSINGS		WETTED PARTS			
Pump Type & Size	Central Body & Air Chambers	Fluid Ports / Location Multiport manifolds: central and lateral	Fluid Chambers & Manifolds	Hardware Bolts & Inserts	Valve Seats	Valve Balls	Diaphragms Type & Material
UP15 Universal Pump (Bolted)	ATEX Certified A* = Aluminium	B = 1-1/2" BSP threaded ports N = 1-1/2" NPT threaded ports	ATEX Certified A* = Aluminium	C = Carbon Steel	A = Aluminium H = Hytrel® M = Santoprene® N = Nitrile (Buna-N) T = PTFE (Teflon®) S = AISI 316 Stainless Steel	H = Hytrel® M = Santoprene® G = Nitrile (Buna-N) T = PTFE (Teflon®) S = AISI 316 Stainless Steel	A = Santoprene® C = Hytrel® G = Nitrile (Buna-N) Z = PTFE (Teflon® with Santoprene® backer)

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

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