

UP30 Metallic PIVOT SERIES



3"
**Air-Operated
Double Diaphragm Pump**

METALLIC
UP30

PIVOT
SERIES
UNIVERSAL DESIGN

 **SAMOA**
LEADING THROUGH INNOVATION

UP30 - PIVOT Series

3" Air-operated double diaphragm pump

1.000 l/min
264 gal/min

The new SAMOA UP30 pumps combines a Universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and **energy efficiency**, exceeding market expectations.

UP30 Metallic pump 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 Aluminium and Stainless Steel pumps with a wide range of diaphragms, seats and balls options offer broad fluid and application compatibility. Highly suitable for outdoors and general applications with presence of abrasives.
- **EASY SERVICING.** Simplified maintenance and cleaning. Components designed for long life and reliability.
- **CONNECTIVITY.** Can be configured to connect a Smart Pump-Controller System to actuate, control and monitor your pumps.

Larger section manifolds reduce flow speed and **minimize wear** caused by abrasion.

Bolted construction utilizing same bolts for covers and manifolds for optimum sealing to **prevent leakage** and **ease maintenance**.

Long-lasting pre-formed elastomer diaphragms reduce wear and break compared to traditional designs.

Air exhaust High efficiency noise reducer included.

High grade ground elastomer valve-balls moving into formed cages, avoid wearing, weakening, and breaking.

Optimized flow path results in a **larger flow delivery**.

Air motor technology
With well proven SAMOA Frictionless Pivot-Shaft Air Valve:

- Interchangeable air valve cartridge.
- Superfast change-over shift.
- No dynamic seals.
- Stall prevention device (3S).
- Short and overdimensioned evacuation air ducts.

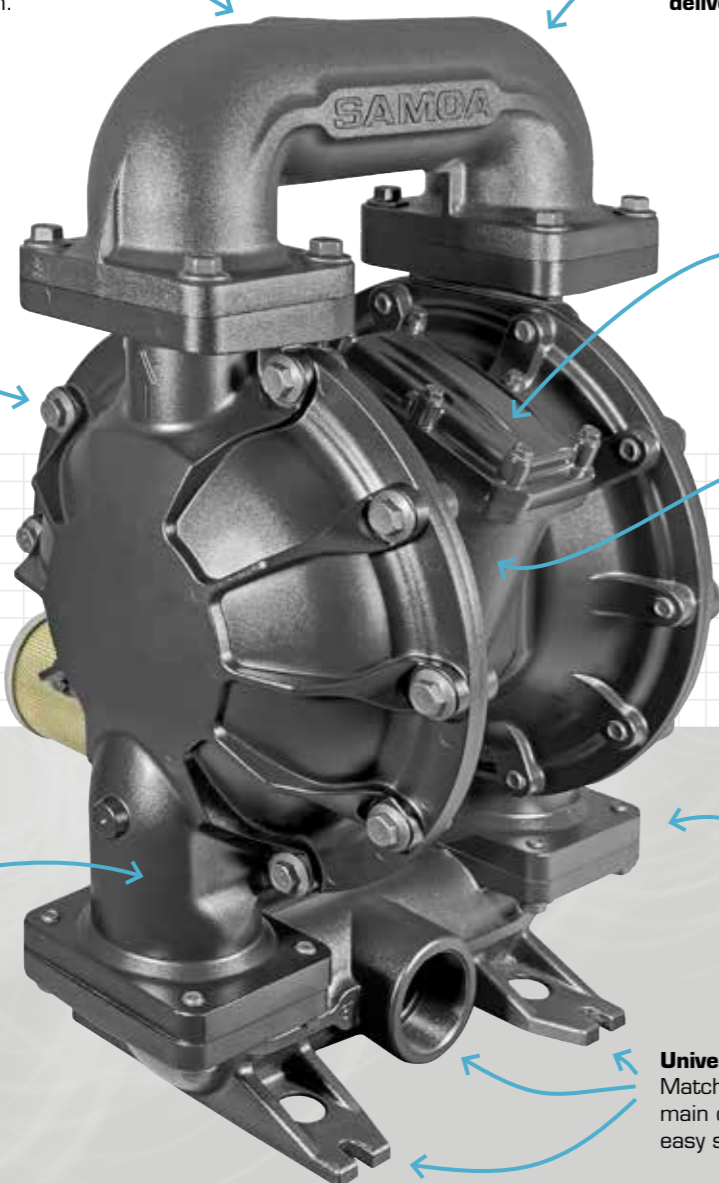
Robust air motor

- Threaded and bolted construction.
- Air cap protects valve as a shield.
- Fully groundable ATEX versions.
- Durable diaphragm shaft.

Metallic construction structure

- Electrophoretic epoxy coating in Aluminium version for enhanced corrosion resistance.
- Superior abrasion resistance.
- Stainless Steel versions for increased resistance to corrosive fluids, harsh atmospheres, high tensile, and aggressive temperatures.
- Very robust design for longer operation lifetime compared to clamped pumps.

Universal pump standards
Matches relative dimensions of main competitive brands, allowing easy swap-over or upgrade.



PIVOT SERIES
UNIVERSAL DESIGN

Exclusive frictionless PIVOT-SHAFT Air Valve

3^S
Smooth-Start-Shifter



Incredibly fast changeover shift:

- Larger 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.

Short and overdimensioned evacuation air ducts:

- No icing, even during long pump runs at high pressure.
- No whistle noise.
- Long-life shift and evacuation Pivot-Pads even with high operating pressure.

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.

UP30X	XXX	XXX	XXX	XXX	XXX	XXX	XXX
PUMP TYPE	AIR MOTOR	HOUSINGS			WETTED PARTS		
1 Pump Type & Size	2 Central Body & Air Chambers	3 Fluid Ports / Location	4 Fluid Chambers & Manifolds	5 Hardware Bolts	6 Valve Seats	7 Valve Balls	8 Diaphragms Type & Material
UP30 Universal Pump (Bolted)	ATEX Certified A* = Aluminium	B = 3" BSP Threaded Ports / Centre Horizontal C = 3" ANSI/DIN Flanged Ports / Centre Horizontal N = 3" NPTF Threaded Ports / Centre Horizontal	ATEX Certified A* = Aluminium S* = Stainless Steel	C = Carbon Steel S = Stainless Steel	A = Aluminium D = AISI 440 Hardened Stainless Steel H = Hytrel® M = Santoprene® N = Nitrile (Buna-N) S = AISI 316 Stainless Steel T = PTFE (Teflon®)	H = Hytrel® M = Santoprene® N = Nitrile (Buna-N) S = AISI 316 Stainless Steel T = PTFE (Teflon®) V = FKM (Viton®)	Conventional A = Santoprene® C = Hytrel® G = Nitrile (Buna-N) V = FKM (Viton®) Two-piece Z = PTFE (Teflon® with Santoprene backer)

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

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

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

Contact us for more information about connected pumps' configuration.

METALLIC
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3" Air-operated double diaphragm pump

PIVOT
S E R I E S
UNIVERSAL DESIGN

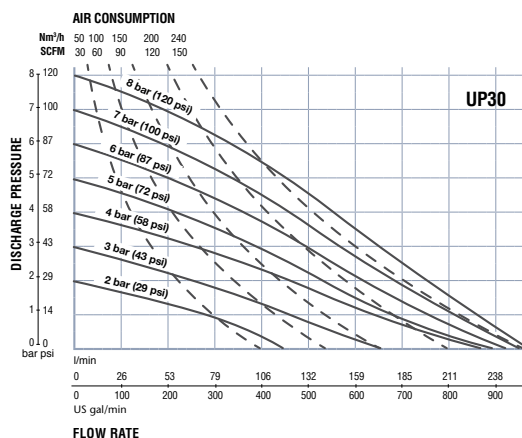
TECHNICAL DATA

METALLIC UP30 - PIVOT SERIES

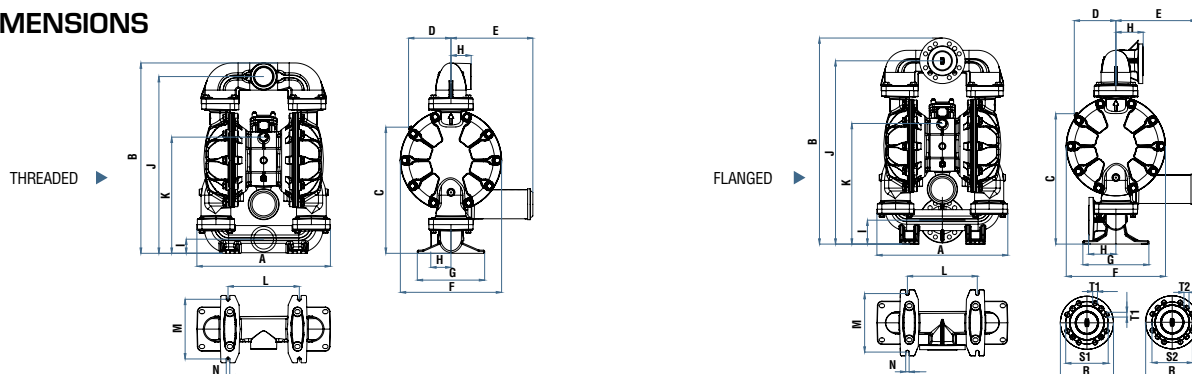
PRESSURE RATIO	1:1	
MAXIMUM FREE DELIVERY	1.000 l/min (264 US gal/min)	
AIR PRESSURE OPERATING RANGE	1,5 to 8 bar (20 to 120 psi)	
MAX. SIZE SOLIDS IN SUSPENSION	12,7 mm (1/2")	
MAXIMUM DRY SUCTION LIFT	6 m (19.7')	
MAXIMUM WET SUCTION LIFT	8 m (26.3')	
DISPLACEMENT PER CYCLE*	10,2 l (2.6 gal)	
FLUID INLET AND OUTLET CONNECTIONS	3" NPT (F) - Threaded 3" BSP (F) - Threaded 3" ANSI/DIN - Flange	
AIR INLET CONNECTION	3/4" NPT (F)	
AIR EXHAUST CONNECTION	1 1/2" NPT (F)	
SOUND LEVEL	83 dB (A) @ 50 cycles/min @ 5 bar	
WEIGHT:	Threaded	Flanged
ALUMINIUM (Central body AL)	68 kg (150 lb)	71 kg (156.5 lb)
ALUMINIUM (Central body SS)	120 kg (265 lb)	125 kg (276 lb)

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

PERFORMANCE CURVES

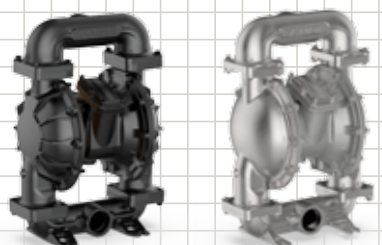


DIMENSIONS



DIMENSIONS (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R	S1(DIN)	S2(ANSI)	T1(DIN)	T2(ANSI)
FLANGED PUMP	575	905	579	183	353	436	290	140	105	805	536	307	257	15	200	160	152,4	21	21
THREADED PUMP	575	820	543	183	353	436	290	87	61	761	500	307	257	15	-	-	-	-	-
DIMENSIONS (inches)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R	S1(DIN)	S2(ANSI)	T1(DIN)	T2(ANSI)
FLANGED PUMP	21 105/64	35 5/8	22 51/64	7 7/32	13 57/64	17 11/64	11 27/64	5 33/64	4 5/32	31 45/64	21 3/32	12 3/32	10 1/8	19/32	7 7/8	6 5/16	6	53/64	53/64
THREADED PUMP	21 105/64	32 9/32	21 25/64	7 7/32	13 57/64	17 11/64	11 27/64	3 7/16	2 13/32	29 31/32	19 11/16	12 3/32	10 1/8	19/32	-	-	-	-	-

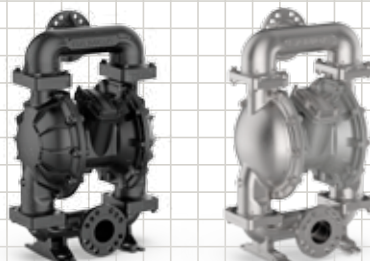
THREADED PUMPS



ALUMINIUM

STAINLESS STEEL

FLANGED PUMPS



ALUMINIUM

STAINLESS STEEL



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