

UP10 Metallic PIVOT SERIES



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

METALLIC
UP10

PIVOT
S E R I E S
UNIVERSAL DESIGN

 **SAMOA**
LEADING THROUGH INNOVATION

UP10 - PIVOT Series

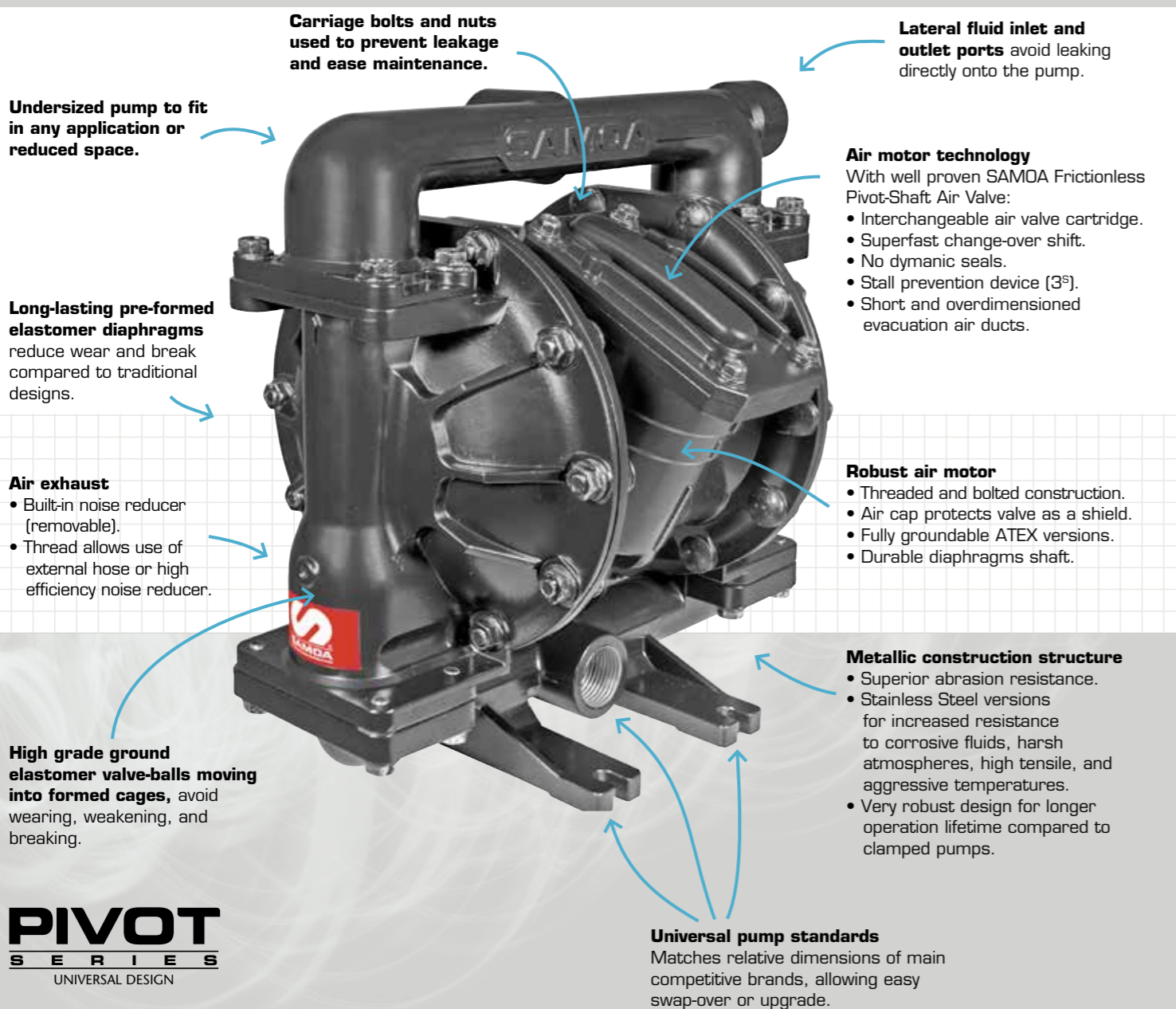
1" Air-operated double diaphragm pump

200 l/min
53 gal/min

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 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.** 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. The pump is held together by carriage bolts and nuts allowing to accomplish a much faster strip down and rebuild.
- **COMPACT DESIGN.**
- **CONNECTIVITY.** Can be configured to connect a Smart Pump-Controller System to actuate, control and monitor your pumps.



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.

UP10X	XXX	XXX	XXX	XXX	XXX	XXX	XXX
PUMP TYPE	AIR MOTOR	HOUSINGS	HOUSINGS	HOUSINGS	WETTED PARTS	WETTED PARTS	WETTED PARTS
1 Pump Type & Size	2 Central Body & Air Chambers	3 Fluid Ports / Location Multiport manifolds: central and lateral	4 Fluid Chambers & Manifolds	5 Hardware Bolts	6 Valve Seats	7 Valve Balls	8 Diaphragms Type & Material
UP10 Universal Pump (Bolted)	ATEX Certified A* = Aluminium B* = Conductive Polypropylene (black)	B = 1" BSP threaded ports N = 1" NPT threaded ports	ATEX Certified A* = Aluminium S* = AISI 316 Stainless Steel	C = Carbon Steel S = Stainless Steel	A = Aluminium H = Hytrel® M = Santoprene® N = Nitrile (Buna-N) S = AISI 316 Stainless Steel	H = Hytrel® M = Santoprene® N = Nitrile (Buna-N) T = PTFE (Teflon®)	A = Santoprene® C = Hytrel® G = Nitrile (Buna-N) Two piece Z = PTFE (Teflon with Santoprene® backer)

* 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.

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
UP10

UP10 - PIVOT Series

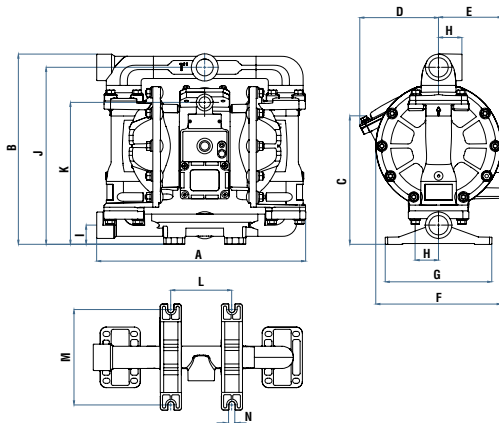
1" Air-operated double diaphragm pump

TECHNICAL DATA

	METALLIC UP10 - PIVOT SERIES
PRESSURE RATIO	1:1
MAXIMUM FREE DELIVERY	200 l/min (53 US gal/min)
AIR PRESSURE OPERATING RANGE	1,5 to 8 bar (20 to 120 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 l (0,2gal)
FLUID INLET AND OUTLET CONNECTIONS (MULTIPOINTS)	1" NPT (F) - Threaded / 1" BSP (F) - Threaded
AIR INLET CONNECTION	1/2" NPSM (F)
AIR EXHAUST CONNECTION	1" NPT (F)
SOUND LEVEL	75 dB (A) @50 cycles/min @70 psi
WEIGHT: ALUMINIUM	Threaded
STAINLESS STEEL	11,5 kg (25 lb)
	17,5 kg (38.6 lb)

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

DIMENSIONS



DIMENSIONS (mm)

UP10 ALUMINIUM & STAINLESS STEEL PUMP

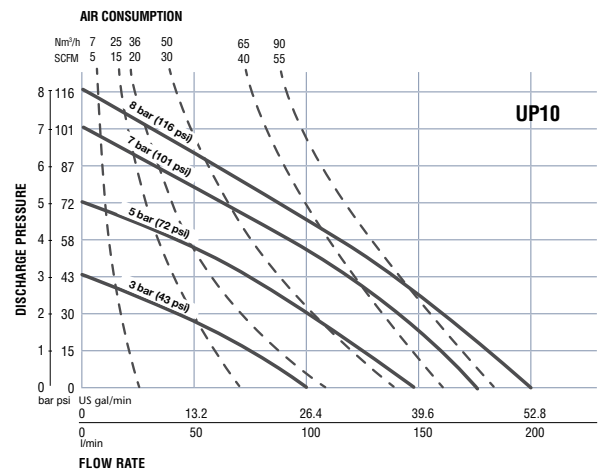
A	B	C	D	E	F	G	H	I	J	K	L	M	N
348	317	214	131	106	209	177	39	32	295	237	102	159	10

DIMENSIONS (inches)

UP10 ALUMINIUM & STAINLESS STEEL PUMP

A	B	C	D	E	F	G	H	I	J	K	L	M	N
13 45/64	12 31/64	8 27/64	5 5/32	4 11/64	8 15/64	6 31/32	1 17/32	1 17/64	11 39/64	9 21/64	4 1/64	6 17/64	15/64

PERFORMANCE CURVES



THREADED PUMPS



ALUMINIUM



STAINLESS STEEL

METALLIC
UP10



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