

CP10 - PIVOT Series Compact Line

1" Air-operated double diaphragm pump

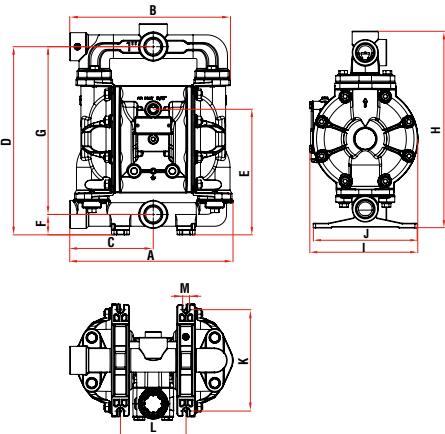
PIVOT
S E R I E S
UNIVERSAL DESIGN

TECHNICAL DATA

PRESSURE RATIO	1:1
MAXIMUM FREE DELIVERY	130 l/min (35 gal/min)
AIR PRESSURE OPERATING RANGE	1,5 to 8 bar (20 to 120 psi)
MAXIMUM SIZE SOLIDS IN SUSPENSION	3,2 mm (1/8")
MAXIMUM DRY SUCTION LIFT	5 m (16')
MAXIMUM WET SUCTION LIFT	8 m (26')
DISPLACEMENT PER CYCLE*	0,4 l (0.1 gal)
FLUID INLET AND OUTLET CONNECTIONS (MULTIPORTS)	1" BSP (F) / 1" NPT (F)
AIR INLET CONNECTION	3/8" NPT (F)
AIR EXHAUST CONNECTION	1/2" NPT (F) (optional)
SOUND LEVEL	75 dB (A) @ 50 cycles/min @ 5 bar (70 psi)
MATERIAL AND WEIGHT: Central Body/Fluid Chambers & Manifolds	Threaded
ALUMINIUM / ALUMINIUM	6,6 kg (14.5 lbs)

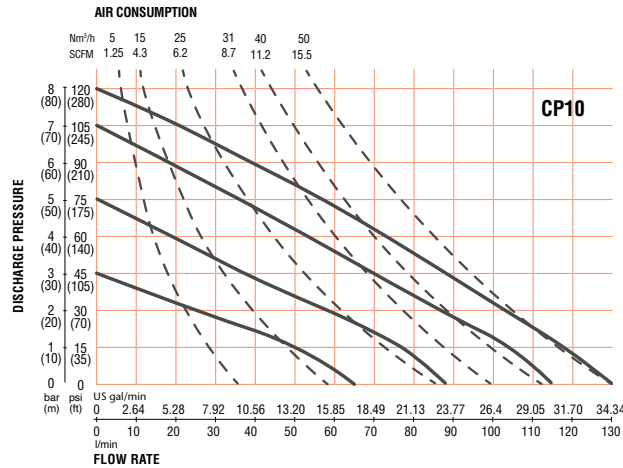
*Delivery per cycle depends on the diaphragm material, air inlet and fluid viscosity.

DIMENSIONS



DIMENSIONS (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M
CP10 ALUMINIUM	256	252	131	295	197	32	263	331	182	175	159	103	10
DIMENSIONS (inches)	A	B	C	D	E	F	G	H	I	J	K	L	M
CP10 ALUMINIUM	10.08	9.92	5.16	11.61	7.75	1.26	10.35	13.03	7.16	6.89	6.25	4.05	0.39

PERFORMANCE CURVES



THREADED PUMP



ALUMINIUM



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

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YouTube



CP10 Metallic

PIVOT SERIES

Compact Line



1"
Air-Operated
Double Diaphragm Pump

METALLIC
CP10

CP10 - PIVOT Series Compact Line

1" Air-operated double diaphragm pump

130 l/min
35 gal/min

The new SAMOA CP10 pump combines a universal design with a **unique air motor** to provide maximum performance and energy efficiency, exceeding market expectations.

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



Easy to service air valve

Bolted multi-port construction

- Longer operation lifetime compared to clamped pumps.
- 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 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 avoid breakage.
- Ground elastomer balls, moving into formed cages, avoid wearing and breaking.

PIVOT
SERIES
UNIVERSAL DESIGN

UNIVERSAL PUMP STANDARDS

Fluid ports and mounting feet dimensions match main competitive brands, allowing easy swap-over.

PIVOT Series Air Distribution System

Advanced and exclusive air motor technology

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:

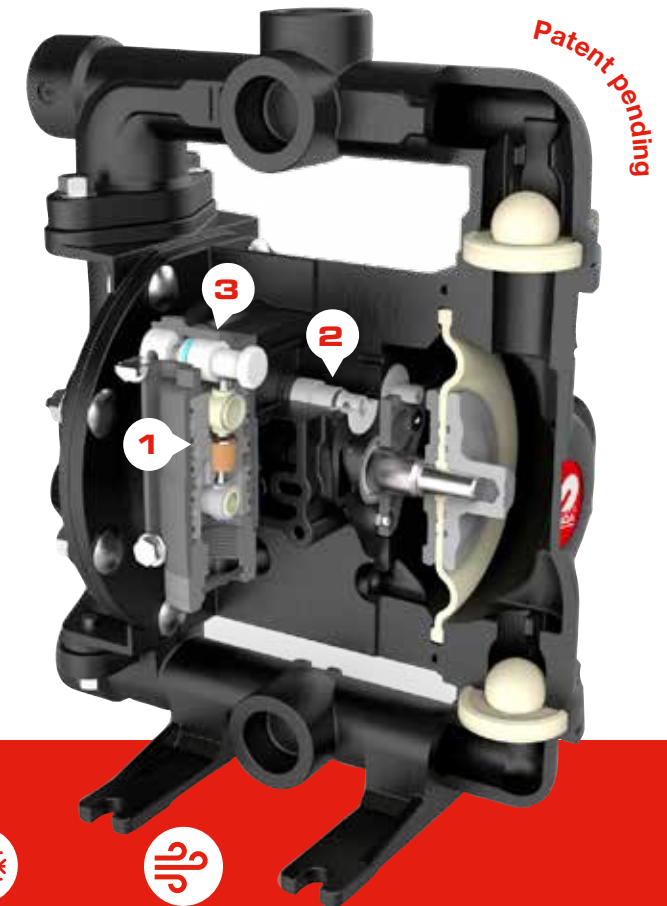
- Fast shifting reduces air consumption.
- Smooth pump operation.
- No icing with large and direct exhaust passages.
- No whistle noises.

2 Quick-Fill Valve:

- Precise air chamber filling reduces air consumption.

3 Smooth Start Shifter (3rd)

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



LUBE FREE OPERATION



NO VIBRATION



REDUCED FLOW PULSATION



ICE FREE EXHAUST



REDUCED AIR CONSUMPTION

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: **CP10X-XXX-XXX**
CE10X-XXX-XXX-XY

CP10X		XXX			XXX			XY	
PUMP TYPE		AIR MOTOR			HOUSINGS			WETTED PARTS	
Pump Type & Size	Central Body & Air Chambers	Fluid Ports / Location Multiport manifolds: central, vertical and lateral			Fluid Chambers & Manifolds	Hardware Bolts & Inserts	Valve Seats	Valve Balls	Diaphragms Type & Material
CP10 Compact Pump (Bolted)	ATEX Certified A* = Aluminium	B = 1" BSP threaded ports N = 1" NPT threaded ports			ATEX Certified A* = Aluminium	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®) S = AISI 316 Stainless Steel	Conventional A = Santoprene® B = Hytrel® C = Nitrile (Buna-N) Two piece Z = PTFE (Teflon® with Santoprene® backer)
CE10 Compact Pump (Bolted) with electronic interface									
								ACCESSORIES	
								Accessories (CE pumps only)	Air valve type (CE pumps only)
								A = Diaphragm leak detectors (ATEX) B = Stroke sensor (ATEX) C = Stroke sensor (PLC) D = Stroke sensor (ATEX) E = Diaphragm leak detectors + Stroke sensor F = Diaphragm leak detectors + Stroke sensor (PLC) G = Diaphragm leak detectors + Stroke sensor (ATEX) H = Diaphragm leak detectors + Stroke sensor (ATEX) O = Without accessories	O = Standard air valve 1 = Externally driven pump

* ATEX Certified pumps for use in hazardous locations ATEX Group II 2GDx.
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Contact us for more information about connected pumps' configuration.