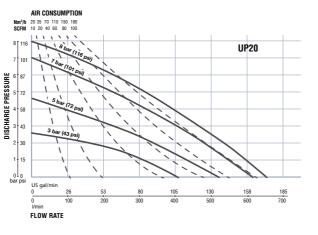
UP20 - PIVOT Series

2" Air-operated double diaphragm pump

TECHNICAL DATA

METALLIC UP20 - PIVOT SERIES

| | WETALLIG OPEO | PIVOI SERIES | |
|---|---|---|--|
| PRESSURE RATIO | 1:1 | | |
| MAXIMUM FREE DELIVERY | 650 l/min (172 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* | 5,1 (1.35 gal) | | |
| FLUID INLET AND OUTLET CONNECTIONS | 2" NPT (F) - Threaded 2" BSP (F) - Threaded 2" ANSI - DIN Flange | | |
| AIR INLET CONNECTION | 3/4" NPT (F) | | |
| AIR EXHAUST CONNECTION | 1 1/2" NPT (F) | | |
| SOUND LEVEL | 85 dB (A) @ 50 cycles/min @ 5 bar | | |
| Weight: ALUMINIUM DUCTILE IRON STAINLESS STEEL (Central body: Stainless Steel) STAINLESS STEEL (Central body: Conductive PP) STAINLESS STEEL (Central body: Aluminium) | Threaded: 46 kg (101 lb) 74 kg (163 lb) 98 kg (216 lb) 85 kg (187 lb) 76 kg (168 lb) | Flanged: 48 kg (106 lb) 78 kg (172 lb) 102 kg (225 lb) 90 kg (198 lb) 82 kg (181 lb) | |
| | | | |



PERFORMANCE CURVES

NIVERSAL DESIG

s

120,6-125

S

4.74-4.92

19

т

3/4

165

6.50

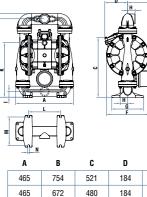
*Delivery per cycle depends on the diaphragms material, air inlet pressure and fluid viscosity.

DIMENSIONS



DIMENSIONS (mm) LIP20 FLANGED PLIMP

DIMENSIONS (inches) UP20 FLANGED PUMP



20.5

7.24

18.90 7.24

353

353

13.90

13.90

340

340

13.39

13.39

255

255

10.04

10.04

116

60

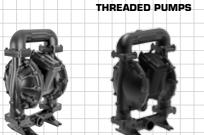
4.57

2.36

LIP20 THREADED PLIMP

UP20 THREADED PUMP





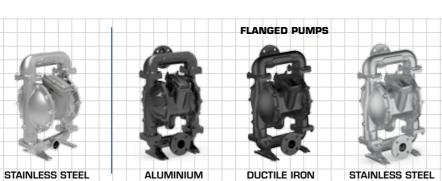
DUCTILE IRON

Α

18.31

29.61

18.31 26.46



230

230

м

9.05

9.05

15

15

0.59

0.59

256

256

10.08

10.08

479

438

κ

18.86

17.24

IP20



ALUMINIUM

SAMOA INDUSTRIAL, S.A. - PROCESS DIVISION

Pol. Ind. Porceyo, I-14 • Camino del Fontán, 831 E-33392 GIJÓN (Asturias) SPAIN Tel.: +34 985 381 488 - Fax: +34 985 147 213 flow@samoaindustrial.com • www.samoaindustrial.com

CONTACT US TODAY!

FLANGED

89

48

3.50

1.89

671

630

26.42

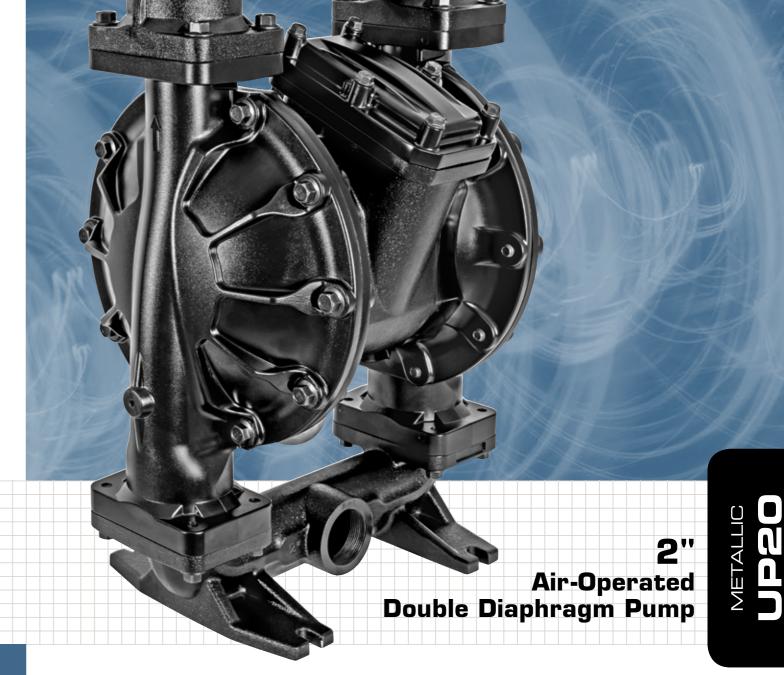
24.80

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SAM0/

s ERIES UNIVERSAL DESIGN

UP20 Metallic **PIVOT SERIES**





UP20 - PIVOT Series

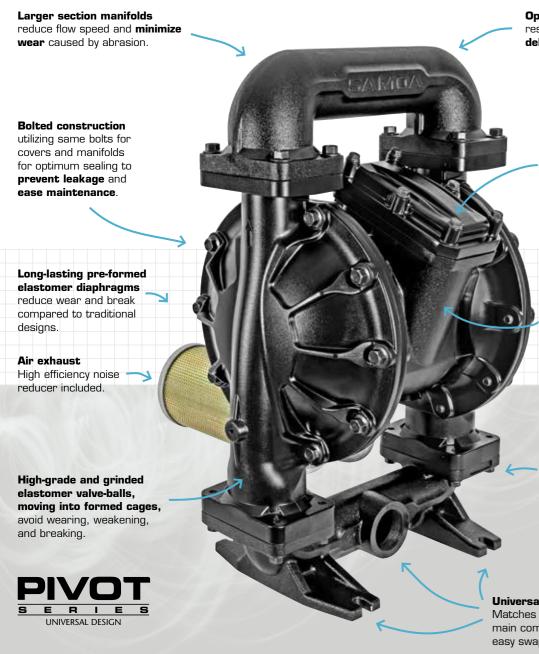
2" Air-operated double diaphragm pump



The new SAMOA UP20 pump combines a Universal design with a unique frictionless Pivot-Shaft Air Valve to provide maximum performance and **energy efficiency**, exceeding market expectations.

UP20 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. Threaded or flanged Aluminium, Stainless Steel and Ductile Iron 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.



Optimized flow path results in a larger flow deliverv

Air motor technology

With well proven SAMOA Frictionless Pivot-Shaft Air Valve:

- Air Valve Cartridge easy to replace.
- Superfast change-over shift. No dynamic seals.
- Stall prevention device (3^s).
- Shorter and oversized evacuation air
- passages

Robust air motor

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

Metallic construction structure

- Electrophoretic epoxy coating in Aluminium and Ductile Iron versions 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.

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

Exclusive frictionless PIVOT-SHAFT Air Valve

stented® Incredibly fast changeover shift: High 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.

Shorter and oversized evacuation air passages:

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

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.

| UP2OX | | | XXX | | ХХХ | | | |
|--|--|--|---|---|---|--|---|--|
| PUMP TYPE AIR MOTOR | | HOUSINGS | | | 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 & Inserts | 6 Valve Seats | 7 Valve Balls | B Diaphragms Type & Material | |
| IP20 Iniversal Pump Bolted) | ATEX Certified A*= Aluminium L*= Conductive polypropylene with Stainless Steel air chambers S*= Stainless Steel | B = 2" BSP Threaded Ports / Centre horizontal C = 2" ANSI/DIN Flanged Ports / Centre Horizontal N = 2" NPTF Threaded Ports / Centre Horizontal | ATEX Certified A*= Aluminium F*= Ductile Iron 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 | 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 Overmolded H = Hytrel [®] N = Nitrile (Buna N) T = PTFE / EPDM (Bonc | |

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