

# UP20 PIVOT Series

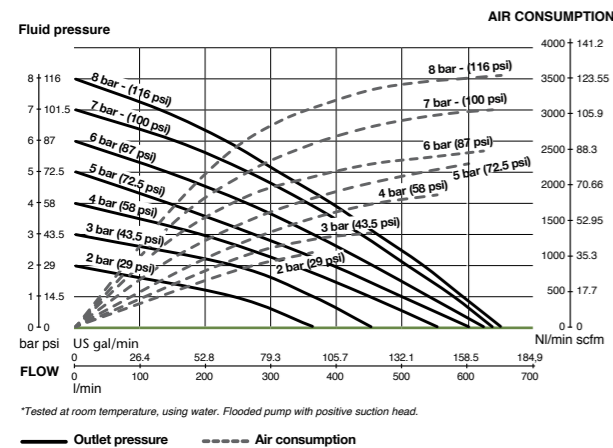
## 2" Air-operated diaphragm pump.

### TECHNICAL DATA

PRESSURE RATIO
MAXIMUM FREE DELIVERY
AIR PRESSURE OPERATING RANGE
SOLIDS IN SUSPENSION, MAXIMUM SIZE
MAXIMUM DRY SUCTION LIFT
MAXIMUM WET SUCTION LIFT
FLUID INLET AND OUTLET CONNECTIONS
AIR INLET CONNECTION
AIR VALVE
WEIGHT (Aluminium version)
WEIGHT (Stainless steel version)
WETTED PARTS

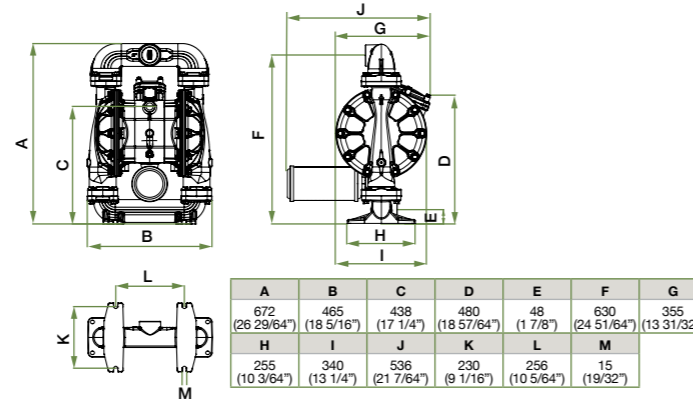
METAL	
1:1	
650 l/min (170 US gal/min)	
1,5 to 8 bar (22 to 115 psi)	
6,4 mm (1/4")	
5 m (16')	
8 m (26')	
2" BSPP (F) / 2" NPT (F)	
3/4" BSP (F) / 3/4" NPT (F)	
Frictionless Pivot valve with Smooth Start Shifter (3 <sup>rd</sup> )	
46 kg (101 lb)	
76 kg (168 lb)	
See available materials	

### PERFORMANCE CURVES



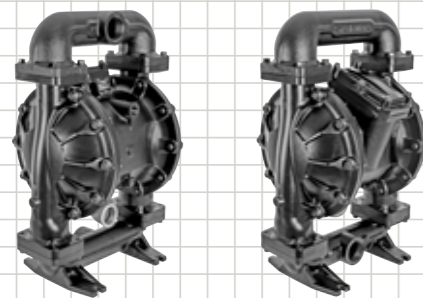
### DIMENSIONS mm (inches)

Aluminium and Stainless steel pumps

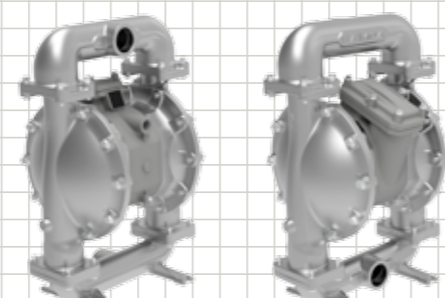


Aluminium and Stainless steel pumps mounting holes and fluid inlet and outlet ports align with many competitive models.

### METAL PUMPS



ALUMINIUM



STAINLESS STEEL

**2"**  
**Air-Operated  
 Diaphragm  
 Pumps**

METAL  
**UP20**



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**UP20 PIVOT Series**  
**2" Air-operated diaphragm pump.**

650 l/min  
170 gal/min

**UP20 PIVOT Series**  
**2" Air-operated diaphragm pump.**

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

**UP20 pump makes 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 diaphragm lifes.
- **MAXIMUM VERSATILITY.** Metal pumps and a wide range of diaphragms, seats and balls offer broad fluid and application compatibility.
- **EASY SERVICING.** Simplified maintenance and cleaning. Components designed for long life and reliability.

**EXCLUSIVE AND IMPROVED FRICTIONLESS PIVOT AIR VALVE**



UP20 pump includes a patented air valve based on the well proven SAMOA frictionless Pivot Air Valve. This valve, that provides an incredibly fast changeover action, results larger flow delivery and smooth pump operation with reduced pulsation and no vibration.

The air valve has no dynamic seals and therefore no parts subject to wear and it can reliably work with dry or humid air.

No stall operation, even with low air pressures, thanks to the patented **Smooth Start Shifter (3<sup>s</sup>)**, a device which activates the pivot valve to prevent stall.

**3<sup>s</sup>**  
Smooth-Start-Shifter

**Larger delivery**  
The super-fast changeover air valve and the optimized flow path result in a larger flow delivery.

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

**Air exhaust**  
High efficiency noise reducer included.

**Very robust design for the toughest applications**

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

**Modular air valve**  
Easy maintenance and cleaning.

**No stall, no icing air valve**  
No icing during long pump runs at high pressure and reliable operation even when the pump is working with very low air pressure.

**Superb abrasion resistance**

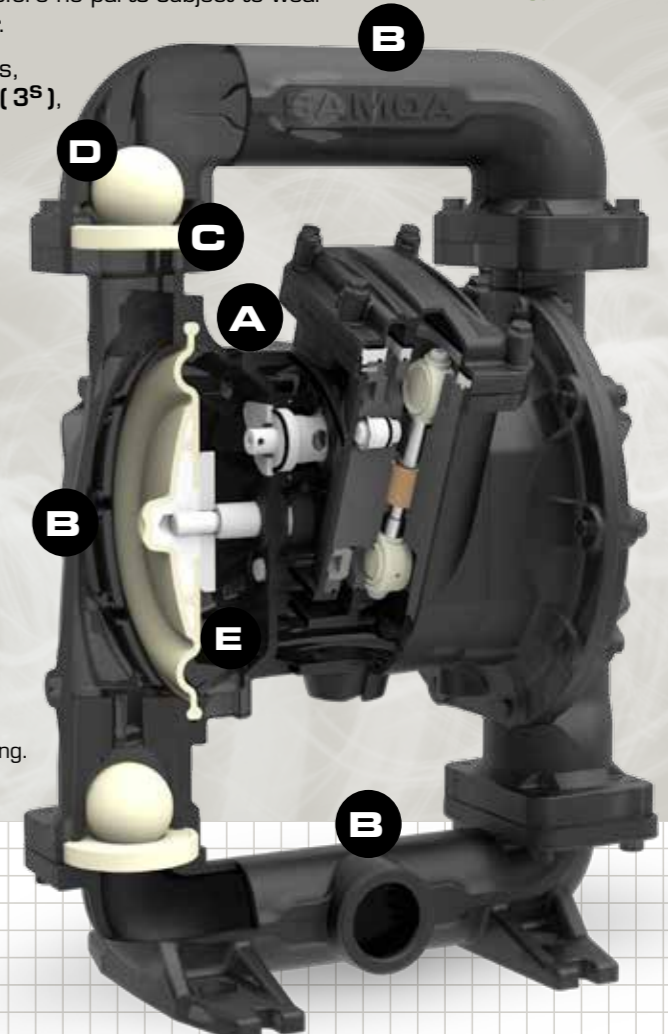
**Smooth operation with no vibration**  
Exclusive frictionless pivot valve results in minimum pulsation and vibration.

**Universal pump standards**  
Matches relative dimensions of main competitive brands.



**Modular air valve.**

- Simplified maintenance and cleaning.
- Reduced downtime.



**AVAILABLE MATERIALS**

SAMOA offers a wide range of material options for chemical compatibility and to withstand abrasion, temperature and fatigue caused by demanding conditions. Hardware (bolts) in plated steel are available in stainless steel on demand. Stainless steel balls (AISI-316) on demand (for very viscous fluids).

A	B	C	D	E
<b>CENTER SECTION AND AIR CAPS:</b>	<b>FLUID COVERS AND MANIFOLDS:</b>	<b>CHECK VALVE SEATS:</b>	<b>CHECK VALVE BALLS:</b>	<b>DIAPHRAGMS:</b>
Aluminium  ATEX Polypropylene	Aluminium Stainless Steel Polypropylene	Santoprene <sup>®</sup> Hytrel <sup>®</sup> Aluminium Nitrile Stainless Steel PVDF Polypropylene	Santoprene <sup>®</sup> Hytrel <sup>®</sup> Nitrile PTFE (Teflon <sup>®</sup> ) Stainless Steel	Santoprene <sup>®</sup> Hytrel <sup>®</sup> Nitrile PTFE with Santoprene <sup>®</sup> backup (2 piece diaphragm)  Nitrile (single piece) Santoprene <sup>®</sup> (single piece) Hytrel <sup>®</sup> (single piece) PTFE bonded with EPDM (single piece diaphragm)



**UP20**