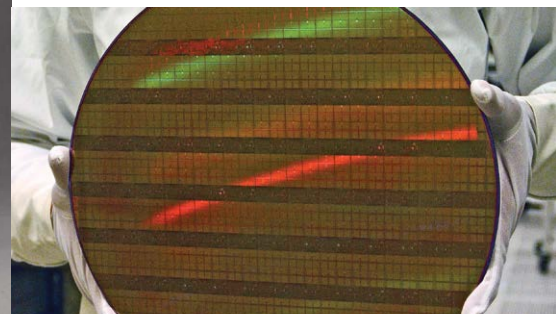


FURON®
Pure Performance



Furon® Astipure II Pumps

Bellows High Purity Fluoropolymer Air Operated Pump (15lpm/4gpm; 30lpm/8gpm; 60lpm/16gpm)

Description

Furon® Astipure II pumps are pneumatically-operated, driven by two reciprocating PTFE bellows. Their oscillation frequency is much lower than an equivalent diaphragm pump, resulting in an extended life and reduced cost of ownership.

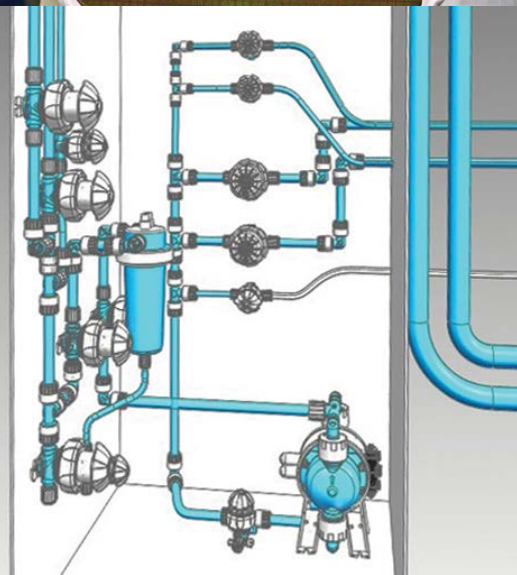
All Furon® Astipure II pump wetted components are manufactured from High Purity PTFE and PFA, making the pumps suitable for handling even the most aggressive concentrated chemicals. All other (non-wetted) components are manufactured from advanced engineering thermoplastics such as ETFE and PEEK to ensure no possibility of ionic contamination, even in the event of a bellows failure. Furon® Astipure II pumps are also 100% elastomer free, using our highly reliable No O-Ring sealing technology throughout. This substantially reduces the chance of contamination due to a failed O-Ring as well as reduces the maintenance costs.

Our pumps are self-priming, providing an easy installation and setup. In addition, the Furon® Astipure II pumps feature our innovative shuttle valve fixation technology, allowing us to provide three different driving systems to adapt our pumps to the customer's requirements.

Astipure II Pumps offer a 2-year factory warranty. Upon completion of preventive maintenance (performed by a certified technician), the warranty is extended an additional two years up to a maximum of six years total warranty. This assures superior system up-time and significantly reduces cost of ownership.

Applications

- Transfer of ultrapure acids and solvents used in the semiconductor industry
- Transfer of abrasive slurries
- Recirculation, dispensing, and filtration with controlled flow rates and volumes
- Bulk chemical delivery



Features and Benefits

- No metal parts
- 100% High-Purity PTFA and PFE wetted flow path
- 100% elastomer free
- Worldwide service center for preventive maintenance
- Unique recirculating pilot air concept to improve system uptime
- Stall-proof twin shuttle option available
- 2-year warranty, renewable to 6 years with preventive maintenance

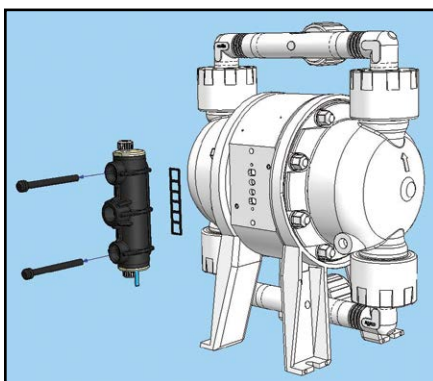
Furon® Astipure II Pumps

Specifications

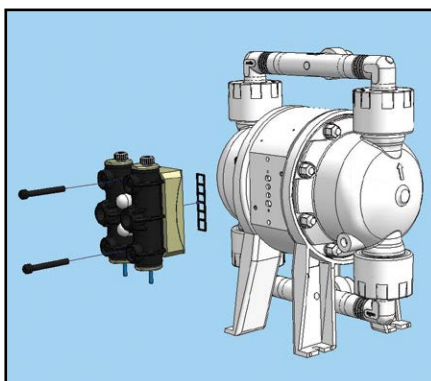
Pump Size	Maximum Flow Rate	Maximum Suction Head	Maximum Air Pressure*	Maximum Air Consumption	Maximum Back Pressure	Temperature Range**	Weight
1	4 gpm - 15 lpm	10" - 3m	80 psi - 5.5 bar	4.5 SCFM - 7 m ³ /h	80 psi - 5.5 bar	30 - 195° F 0 - 90° C	5 lbs - 2.5 kg
2	8 gpm - 30 lpm	12" - 3.5m	80 psi - 5.5 bar	6 SCFM - 9 m ³ /h	80 psi - 5.5 bar	30 - 195° F 0 - 90° C	9 lbs - 4.5 kg
3	16 gpm - 60 lpm	14" - 4m	80 psi - 5.5 bar	9 SCFM - 14 m ³ /h	80 psi - 5.5 bar	30 - 195° F 0 - 90° C	16 lbs - 8 kg

* Contact factory for use with higher pressure

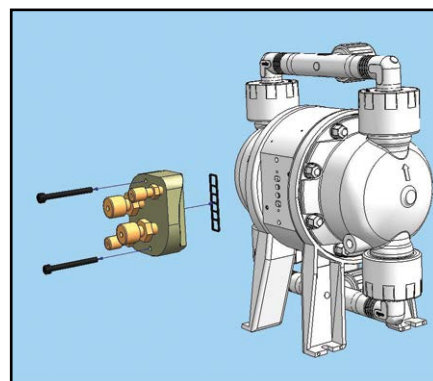
** High-temperature version available for media temperatures greater than the one indicated here



Single shuttle valve driving system



Twin shuttle valve driving system
(anti stalling system)



External driving (allow a direct driving
through a PLC system)

Ordering Information

Base Part Number	Media	Pump Size	End Connection Type	End Connection Size	Driving System		
					Single Standard Driving Shuttle Valve	TWIN Shuttle Valve Driving System	External Driving
A2CH1 F8	Chemical	1	FlareGrip II®	1/2"	Nothing to add to the base Part Number	Add TWIN at the end of the base Part Number	Add EXT at the end of the base Part Number
A2CH1 T8			Tube End				
A2CH2 F12		2	FlareGrip II®	3/4"			
A2CH2 T12			Tube End				
A2CH3 F16		3	FlareGrip II®	1"			
A2CH3 T16			Tube End				
A2SY1 F8	Slurry	1	FlareGrip II®	1/2"			
A2SY1 T8			Tube End				
A2SY2 F12		2	FlareGrip II®	3/4"			
A2SY2 T12			Tube End				
A2SY3 F16		3	FlareGrip II®	1"			
A2SY3 T16			Tube End				

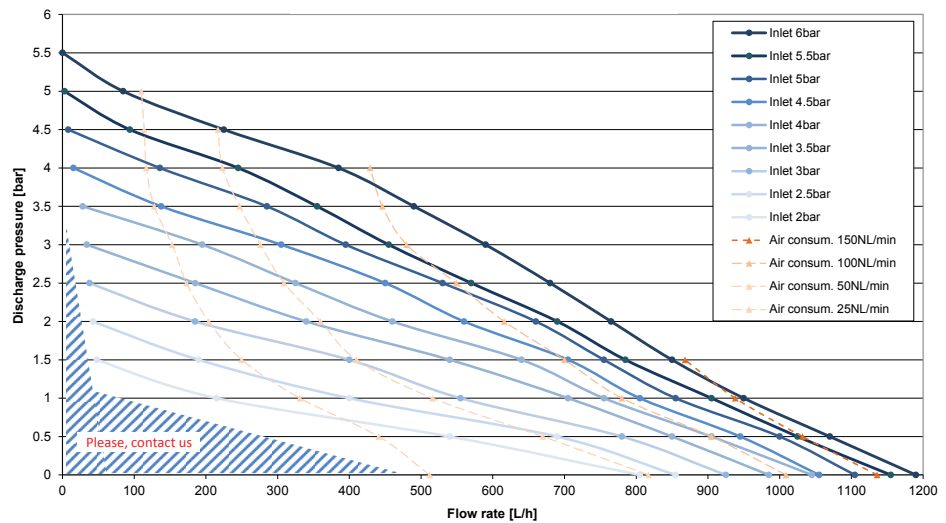
Standard Options

- Optic fiber for stroke counting (5m standard)
 - PN = 9475
- Fiber optic converter
 - PN = 8319
- Metal free leak detection system
 - LD1 for size 1 & 2 pump
 - LD2 for size 3 pump
- Other manifold orientations than the standard horizontal/horizontal
- Various combinations of end connections available (Flare, tube, pipe, NPT).
Please contact our Technical Service for details

Flow Rate Curves

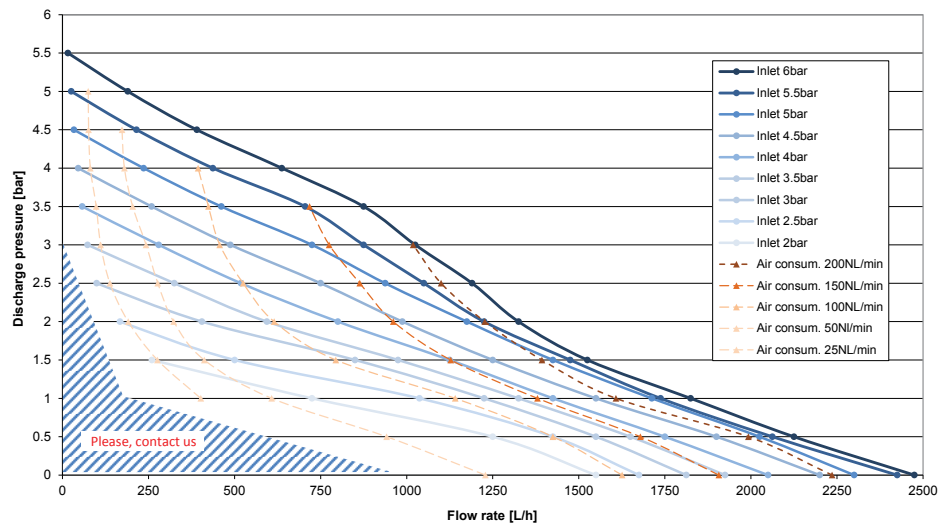
Pump Size 1

Inlet air pressure (bar) and air consumption (NL/min) as a function of fluid flow rate (L/h) and discharge pressure (bar) Pump chemical a2 size 1, Ø4x6 air pressure tube



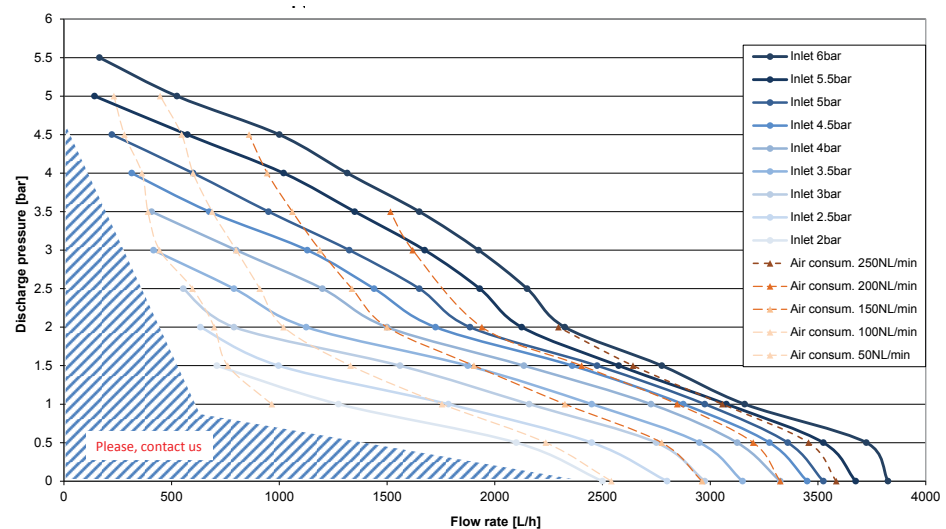
Pump Size 2

Inlet air pressure (bar) and air consumption (NL/min) as a function of fluid flow rate (L/h) and discharge pressure (bar) Pump chemical a2 size 2, Ø6x8 air pressure tube



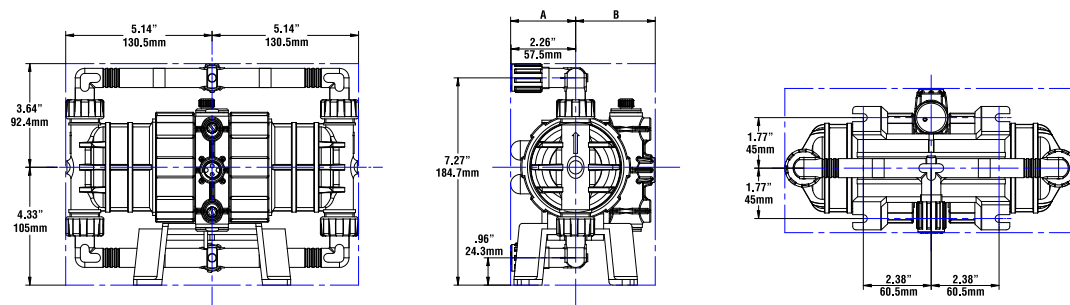
Pump Size 3

Inlet air pressure (bar) and air consumption (NL/min) as a function of fluid flow rate (L/h) and discharge pressure (bar) Pump chemical a2 size 3, Ø8x10 air pressure tube

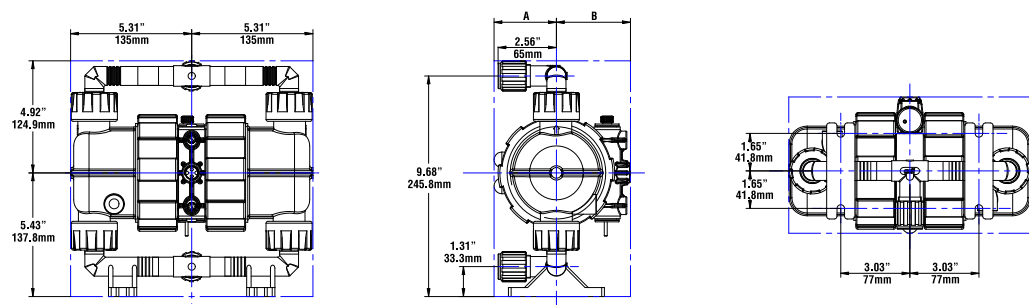


Dimensions

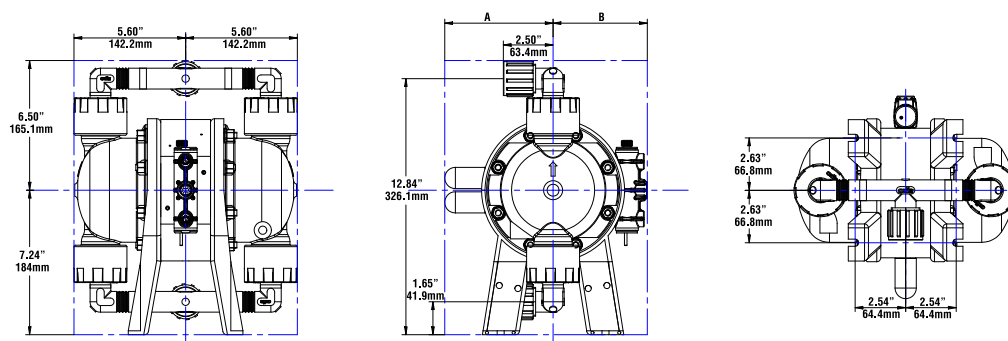
Pump Size 1



Pump Size 2



Pump Size 3



Pump Size 1

Pump Size 2

Pump Size 3

	Control Side	Muffler Side	Control Side	Muffler Side	Control Side	Muffler Side
	A	B	A	B	A	B
Single Shuttle	71 mm - 2.8"		82.5 mm - 3.25"		120 mm - 4.72"	
Twin Shuttle	129 mm - 5.08"		131 mm - 5.16"		148 mm - 5.84"	
External Shuttle	123 mm - 4.87"		132 mm - 5.21"		148 mm - 5.84"	
Muffler Only		58 mm - 2.28"		69.5 mm - 2.74"		138 mm - 5.43"
Muffler & Leak Detection System		94.5 mm - 3.72"		95.5 mm - 3.72"		165 mm - 6.50"



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