

FURON® Pure Performance

Furon® A2 Pumps

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

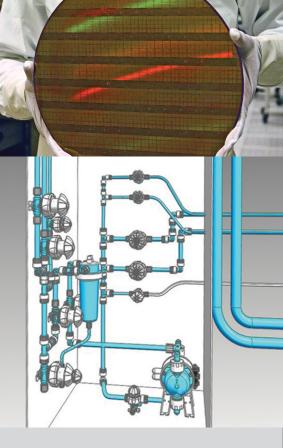
Furon A2 Pumps are pneumatically-operated, driven by two reciprocating PTFE bellows. Their oscillation frequency is much lower than an equivalent diaphragm pump, resulting in an extended life and reduced cost of ownership.

All Furon A2 Pump wetted components are manufactured from high-purity PTFE and PFA, making them suitable for handling 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 A2 Pumps are 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 maintenance costs.

Our pumps are self-priming, providing an easy installation and setup. In addition, the Furon A2 Pumps feature our innovative shuttle valve fixation technology, allowing us to provide three different driving systems to adapt our pumps to the customers' requirements.

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 PFA and PTFE 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
- Low pulsation level with the use of Furon A2 Dampener technology
- Furon A2 Pumps have been tested for more than 130 millions cycles
- ATEX compliant: II 3 G/c IIC TX X



ASK AN ENGINEER

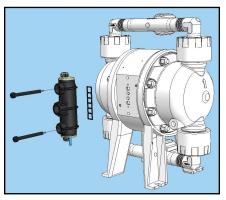
Specifications

Pump Size	Maximum Flow Rate		Maximum Suction Head		Maximum Air Pressure*		Maximum Air Consumption		Maximum Back Pressure		Media Temperature Range**		Weight	
	gpm	lpm	ft	m	psi	bar	SCFM	m³/h	psi	bar	°F	°C	lbs	kg
1	4	15	10	3	87	6	4.5	7	80	5.5	30 - 185°F	0 - 85°C	5	2.26
2	8	30	12	3.5			6	9					9	4.08
3	16	60	14	4			9	14					16	7.25

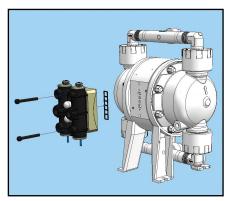
 $^{^{\}ast}$ Please contact us for use with higher pressure

** Contact Us for higher-temperature version.

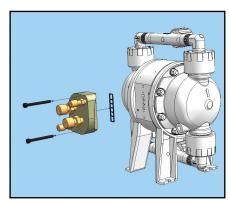
Max. Ambient Temperature: 140°F (60°C) Tested for more than 130 millions cycles



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

			E	End Connection – Size		Driving System					
Base Part Number	Media	Pump Size	End Connection Type			Single Standard Driving Shuttle	TWIN Shuttle Valve Driving	External Driving			
			Туре	in	mm	Valve	System				
A2CH1 F8	Chemical		FlareGrip® II	1/0	12.7						
A2CH1 T8		1	Tube End	1/2							
A2CH2 F12		2	FlareGrip® II	3/4	19.05						
A2CH2 T12		2	Tube End			Nothing to add					
A2CH3 F16		3	FlareGrip® II	1	25.4		Add TWIN at the end of the base	Add EXT at the end of the base Part Number			
A2CH3 T16			Tube End								
A2SY1 F8		1	FlareGrip® II	1/2	12.7	Part Number	Part Number				
A2SY1 T8	Slurry	'	Tube End	1/ 2	12.7						
A2SY2 F12		3	FlareGrip® II	3/4	19.05						
A2SY2 T12			Tube End		19.05						
A2SY3 F16			FlareGrip® II	_ 1	25.4						
A2SY3 T16			Tube End		25.4						

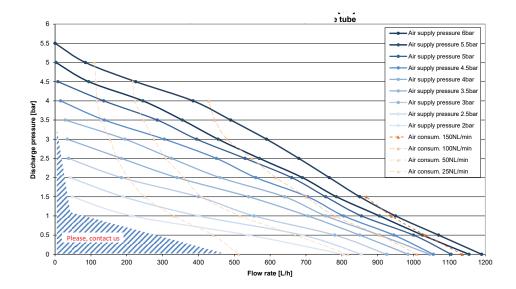
Options

- Optic fiber for stroke counting (5 m (16.4 ft) standard)
- PN = 9475
- Fiber optic converter
- PN = 8319
- Metal free leak detection system
- LD1 for size 1 & 2 pump
- LD2 for size 3 pump
- $\bullet \ \ \hbox{Other manifold orientations than the standard horizontal/horizontal}$
- Various combinations of end connections available (Flare, tube, pipe, NPT). <u>Please consult our engineers</u> for details.

Flow Rate Curves

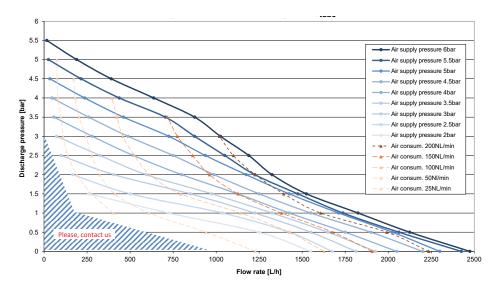
Pump Size 1

Air supply 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



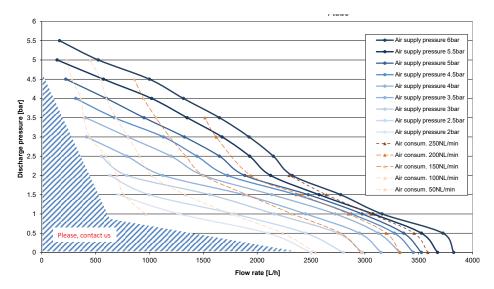
Pump Size 2

Air supply 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



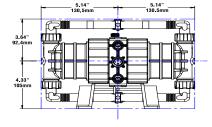
Pump Size 3

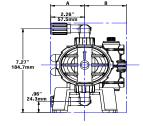
Air supply pressure (bar) and air consumption (NL/min) as a function of fluid flow rate (L/h) and discharge pressure (bar) Pump chemical A2 Size 3, Ø8x10 air pressure tube

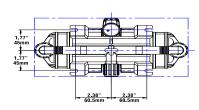


Dimensions

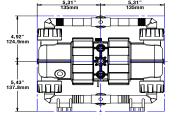
Pump Size 1

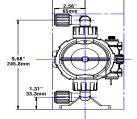


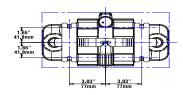


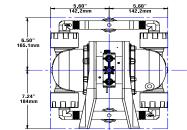


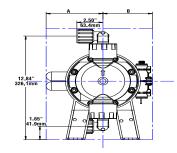


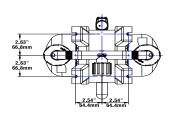












Pump Size 3

		Pump	Size 1			Pump	Size 2		Pump Size 3			
	Control Side		Muffler Side		Control Side		Muffler Side		Control Side		Muffler Side	
	А		В		А		В		А		В	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Single Shuttle	2.8	71			3.25	82.5			4.72	120		
Twin Shuttle	5.08	129			5.16	131			5.84	140		
External Shuttle	4.87	123			5.21	132			5.84	148		
Muffler Only			2.28	58			2.74	69.5			5.43	138
Muffler & Leak Detection System			3.72	94.5			3.72	95.5			6.50	165



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