

**FURON®**  
Pure Performance

# Furon® PPRD1 Pump

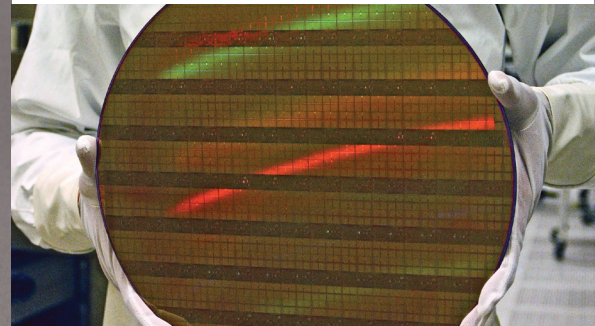
## Pneumatic Dosing Pump 6-40 mL Stroke Capability

The Furon PPRD1 Pump is pneumatically operated: one bellows made from PTFE is driven forward and backward to deliver each dose of chemical. Furon PPRD1 pumps come with either pneumatic or inductive end position sensors. They can be operated according to various modes: single shot, timer, preset number of strokes, etc., depending on the characteristics of the control unit selected.

All Furon PPRD1 Pump wetted components are manufactured with High-Purity PFA and PTFE and are suitable for pumping even the most corrosive concentrated chemicals (acids and solvents). All other components are manufactured with high technology materials; Our pumps are assembled in our cleanroom, tested with DI water, cleaned, then double sealed in plastic bags.

### Applications

- Dosing of Ultrapure chemicals in Semiconductor fabs
- Dispensing of sensitive fluids
- Dispensing of corrosive, aggressive and ultra pure fluids



### Features and Benefits

- All wetted parts made of High-Purity PFA HP or Virgin PTFE
- Assembled, cleaned and packed in cleanroom
- Self-priming
  - Easy to start
- Compact and clear construction
  - Easy to locate and maintain
- Clever manual tuning of the dose from 6 to 40 ml
  - Easy to set up
- +/- 1% accuracy and repeatability\*

\*When the dose is set and the repeatability is 1% of the set point

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## Furon PPRD1 Pump Ordering Information

Part Number	End Stroke Sensor	Flare Type Fluid Connections		A		B	
		in	mm	in	mm	in	mm
PPRD1 206	Pneumatic	1/4 x 5/16	6 x 8	11-13/16	300	7-17/32	191
PPRD1 210		3/8 x 1/2	10 x 13	12-3/32	307	7-23/32	196
PPRD1 306	Inductive	1/4 x 5/16	6 x 8	11-13/16	300	7-17/32	191
PPRD1 310		3/8 x 1/2	10 x 13	12-3/32	307	7-23/32	196

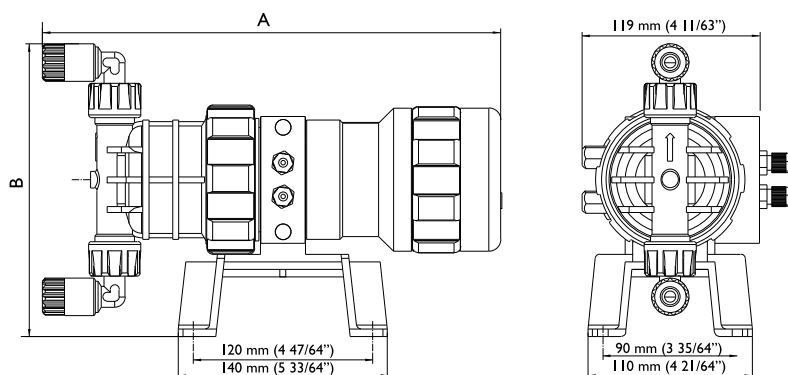
## Control Box for Pneumatic Version Ordering Information

Part Number	Sensor Type	Control Type	Description
50 000 41	Pneumatic	Single Shot	Pump delivers one dose and stops
50 000 42	Pneumatic	Timer	Pump delivers a dose at pre-set time intervals (adjustable between 2 and 30 seconds) until stopped
50 000 44	Pneumatic	Preset Counter	Pump delivers a preset number of doses
50 000 43	Pneumatic	Timer + Preset Counter	Pump delivers a dose at pre-set time intervals (adjustable between 2 and 30 seconds) until a pre-set number of doses is reached

## Operating Specifications

Single Shot	6-40 ml
Flow Rate	0-0.5 GPM (0-120 l/h)
Air Operating Pressure	40-70 PSI (3-5 bar)
Max. Delivery Pressure	60 PSI (4 bar)
Max. Air Consumption	3.5 SCFM 6m³/h
Air Connection	Tubing 2.7 x 4 mm
Operating Temperature	Media: 212°F (100°C) Ambient: 32°F to 140°F (0°C to 60°C)
Weight	8 lbs (3.6 kg)
Dispense Accuracy	+/- 1%
Dispense Repeatability	+/- 1%
Maximum Fluid Viscosity	500 cps*

\* Please contact us for higher viscosity.



### Saint-Gobain Performance Plastics

**China** (+8621) 5472 1568  
Sales.PPLCN@saint-gobain.com  
**Europe** (+33) 3 85 20 27 00  
quotes-clm@saint-gobain.com  
**India** (+91) 80 46978888  
pplindia.hc@saint-gobain.com

**Japan** (+81) 3 6256 9703  
ls-japan@saint-gobain.com  
**Korea** (+82) 2 6098 0180  
LS-Korea@saint-gobain.com  
**Southeast Asia** (+66) 38 667 800  
cs.sgplsea@saint-gobain.com

**Taiwan** (+886) 2 2503 4201  
Taiwan.ppl@saint-gobain.com  
**United States** (+1) 800-833-5661  
gardengrovequoteteam@saint-gobain.com  
**All Other Regions**  
www.furon.com

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