

# AstiPure™ AMC Pulsation Damper



## Features/Benefits

- Entirely made of High Purity PFA and PTFE
- No metal parts (internal or external)
- No rotating shaft or glands to cause leakage
- Operating temperatures 32°F (0°C) to +212°F (100°C)
- Pneumatically operated (dry air)
- Easy maintenance
- Same spare parts as for the pump
- Compact design

## Operation

The principle function of a pulsation damper is to damp out the pulse generated on the delivery stroke by pneumatically operated bellows and diaphragm pumps. When the pump is used in conjunction with a filter (the pulse from the AstiPure™ pump is much lower than that generated by an equivalent diaphragm pump) the pulse on the delivery stroke can cause particles trapped in the filter membrane to be forced through the filter, contaminating the fluid.

The pulsation damper, when placed on the delivery side of the pump with the same fittings and air/nitrogen supply, absorbs up to 80% of the pulsations, regardless of fluid pressure or flow rate, protecting the filter element from damage and significantly reducing particle contamination. These pulsation dampers logically carry on our range of “Ultrapure” contamination free products.

Like the rest of our products (including pumps, fittings and valves) all wetted parts are made of High Purity PFA and PTFE. Other parts are made of high tech plastics such as PVDF and PEEK.

There are no metal parts avoiding the risk of corrosion or ionic contamination.

## Applications

- Transfer of ultrapure acids
- Recirculation with filtration
- Circulation with control of the flow rates
- Continuous injection
- Pharmaceutical production line
- Ultrafiltration

# AstiPure AMC Pulsation Damper

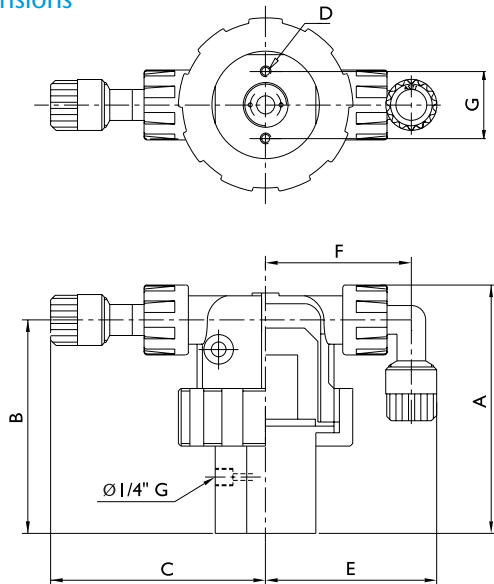
## Ordering Information

Pump	Max. air pressure	Fluid connection	Configuration	Part number
PFD1	72.5 PSI - 5 bar	Flare fitting tube Ø 10x13 or 3/8"x1/2"	DD	AMC1 110
		Flare fitting tube Ø 10x13 or 3/8"x1/2"	DC	AMC1 210
		Flare fitting tube Ø 10x13 or 3/8"x1/2"	CC	AMC1 310
PFD2	72.5 PSI - 5 bar	Flare fitting tube Ø 16x19 or 5/8"x3/4"	DD	AMC2 116
		Flare fitting tube Ø 16x19 or 5/8"x3/4"	DC	AMC2 216
		Flare fitting tube Ø 16x19 or 5/8"x3/4"	CC	AMC2 316
PFD3	72.5 PSI - 5 bar	Flare fitting tube Ø 22x25 or 7/8"x1"	DD	AMC3 122
		Flare fitting tube Ø 22x25 or 7/8"x1"	DC	AMC3 222
		Flare fitting tube Ø 22x25 or 7/8"x1"	CC	AMC3 322
PFD4	72.5 PSI - 5 bar	Flange PN10 DN25	DD	AMC4 125
		Flare fitting tube Ø 22x25 or 7/8"x1"	DD	AMC4 122
		Flare fitting tube Ø 22x25 or 7/8"x1"	DC	AMC4 222
		Flare fitting tube Ø 22x25 or 7/8"x1"	CC	AMC4 322

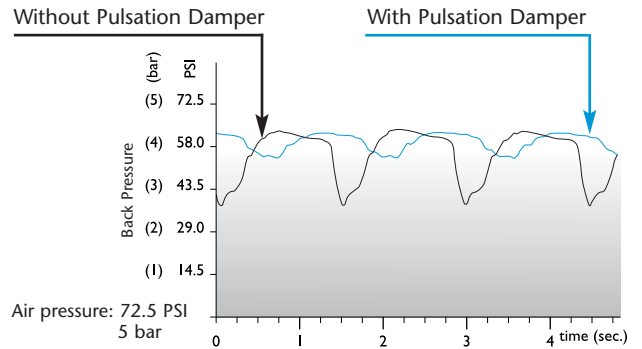
Note: D = Straight connector C = Elbow connector

Add A for KALREZ® o-rings on inlet and outlet connectors (example, AMC1 210A).  
Add K for KALREZ® o-rings for all wetted parts (example, AMC1 210K).

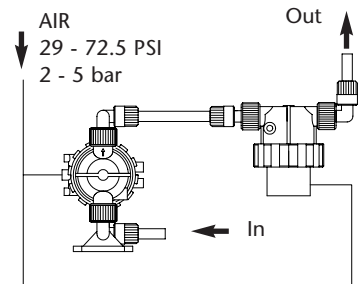
## Dimensions



## Back Pressure



## Pneumatic Fitting



Type	Max. air connection	Fluid connection	A	B	C	D	E	F	G	Weight
AMC1	Ø 2.5x4	Ø 10x13 or 3/8"x1/2"	185	160	150	Ø M8	120	108	50	2 kg
AMC2	Ø 4x6	Ø 16x19 or 5/8"x3/4"	185	160	160	Ø M8	127	108	50	2 kg
AMC3	Ø 6x8	Ø 22x25 or 7/8"x1"	220	188	196	Ø M8	165	143	80	4.5 kg
AMC4	Ø10x13	Ø 22x25 or 7/8"x1"	280	240	242	Ø M8	211	188	120	10 kg
		Flange DN25	280	240	250	Ø M8			120	10 kg

## Saint-Gobain Performance Plastics-USA

7301 Orangewood Avenue  
Garden Grove, CA 92841-1411  
Tel: (714) 630-5818  
Fax: (714) 688-2614  
USA Toll Free: (800) 833-5661

## France

Tel: 33/(0) 1 55 68 59 59  
Fax: 33/(0) 1 55 68 59 68

## Japan

Tel: 81/(0) 2 6679 6400  
Fax: 81/(0) 2 6670 1001



AstiPure™ is a trademark.  
KALREZ® is a registered trademark of DuPont.  
Specifications are subject to change without notice.

**12-month Limited Warranty:** For a period of 12 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in manufacturing. This company's only obligation will be to provide replacement product for any material proven to have such a defect, or at SGPPL's option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct, consequential or incidental, arising out of the use, misuse, or inability to use this product. SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

NOTE: Saint-Gobain Performance Plastics Corporation does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product or of any final product into which the product may be incorporated by the purchaser and/or user.