

SMC Corporation

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**09-E557**D-DN Printing OT 12450KS

# Process Pump/Wetted Part: Fluoropolymer Series PAF3000-X68

Body material

Diaphragm seal material

**New PFA** 

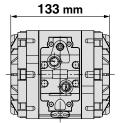
PTFE

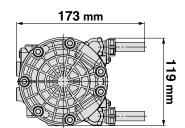
Compatible with various liquids (pure water, solvent)\*

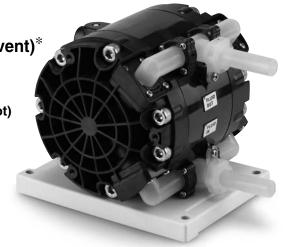
\* Tightening bolt, Air switching valve: Stainless steel
Use the PAF series standard products when metal-free pump is necessary for
hydrofluoric acid, etc.

● Lightweight and Compact (PAF3000-X68 without foot)

Weight: 1.8 kg







- PPS/PFA dual construction
   Withstand pressure and heat cycle performance have been improved.
- Connection type: Female thread/Tube extension/With nut (Insert bushing type, Flare type)

## **Specifications**

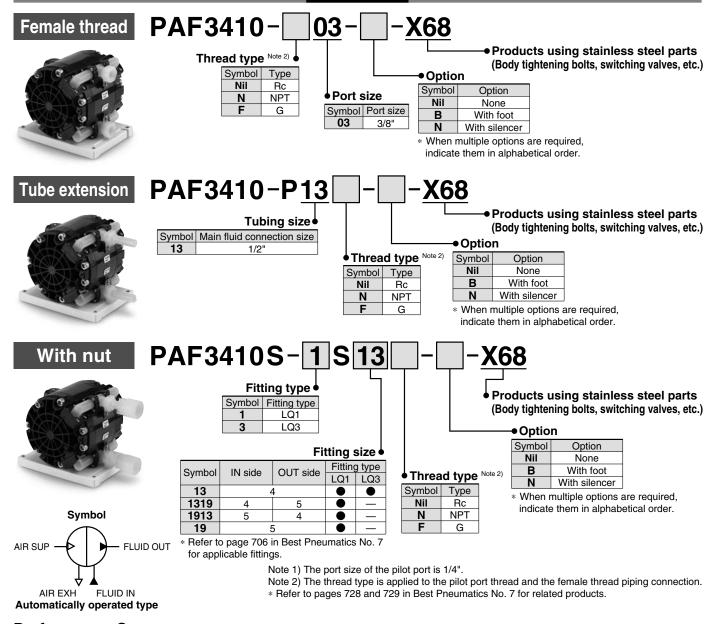
th nut (Size 4, 5)		
th nut (Size 4, 5)		
0.75 MPa		
1.8 kg		
Horizontal (mounting on the bottom surface)		
General environment		

 $<sup>\</sup>ast$  Values in the table are measured at room temperature using fresh water.



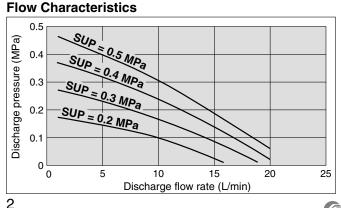
# **Process Pump/Wetted Part: Fluoropolymer Automatically Operated Type** (Internal Switching Type) Series PAF3000-X68





#### Performance Curve

\* SUP: Pilot air pressure

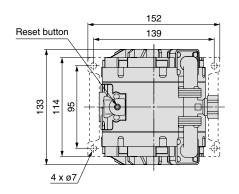


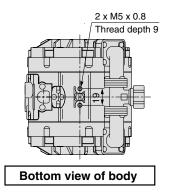
# **Air Consumption** Air consumption (L/min [ANR]) SUP = 0.5 MPa 150 SUP = 0.3 MPa 100 SUP = 0.2 MPa 50 25 Discharge flow rate (L/min)

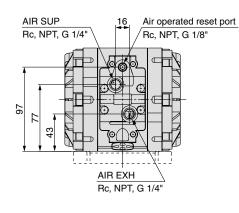
# Process Pump Series PAF3000-X68

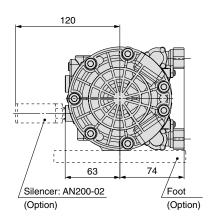
# **Dimensions: Automatically Operated Type (Series PAF3000)**

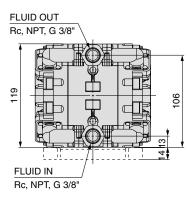
Female thread: PAF3410-N03--X68



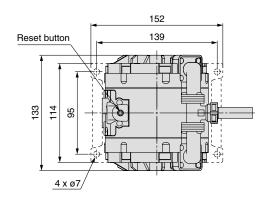


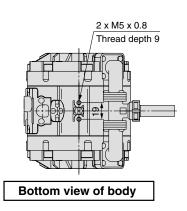


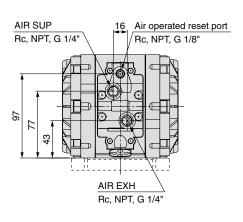


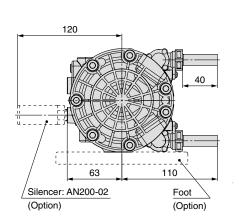


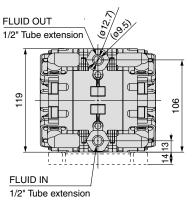
Tube extension: PAF3410-P13N-□-X68







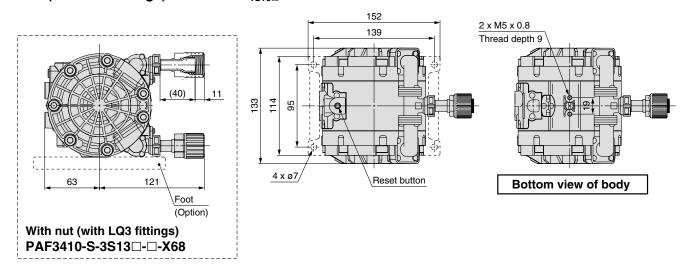


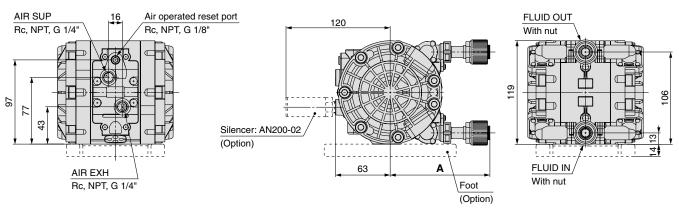


# Series **PAF3000-X68**

# **Dimensions: Automatically Operated Type (Series PAF3000)**

With nut (with LQ1 fittings): PAF3410S-1S13□-X68





#### **Tube Size Applicable for Nut Size**

(Tube size can be altered, using a reducer even within the same nut size.)

Model	Α	Size	Applicable tubing size
PAF3410S-1S13	115	4	10 x 8, 12 x 10, 3/8" x 1/4", 1/2" x 3/8"
PAF3410S-1S19	118	5	12 x 10, 19 x 16, 1/2" x 3/8", 3/4" x 5/8"

## **Applicable Fluids**

(mm)

#### Material and Fluid Compatibility Check List for Process Pumps

- The data below is prepared based on data provided by the material manufacturers.
- SMC assumes no responsibility for the accuracy of the data or for any damages arising from the data.
- The material and fluid compatibility check list provides reference values as a guide only; therefore SMC does not guarantee the application to our product.

Table symbols  $\bigcirc$ : Can be used.  $\times$ : Cannot be used.

	Model	PAF3410-X68
	Body material	New PFA
	Diaphragm material	PTFE
	Acetone	Note 1, 2)
	Ammonium hydroxide	O Note 2)
	Isobutyl alcohol	O Note 1, 2)
	Isopropyl alcohol	O Note 1, 2)
	Hydrochloric acid	X
	Ozone water	0
l =	Hydrogen peroxide Concentration 5% or less, 50°C or less	0
<u>  છ</u>	Ethyl acetate	X
Chemical	Butyl acetate	X
٦	Nitric acid (except fuming nitric acid) Concentration 10% or less	×
0	Pure water	0
	Sodium hydroxide Concentration 50% or less	X
	Super pure water	0
	Toluene	Note 1, 2)
	Hydrofluoric acid	X
	Sulfuric acid (except fuming sulfuric acid)	X
	Phosphoric acid Concentration 80% or less	X

## **⚠** Caution

- Select the wetted parts material in accordance with the transfer liquid for determing the model.
  - Do not use fluid which corrode the wetted parts material.
- ${\bf 2.}\ {\sf Do}\ {\sf not}\ {\sf use}\ {\sf the}\ {\sf products}\ {\sf for}\ {\sf medical}\ {\sf or}\ {\sf food}\ {\sf applications}.$
- The applicability may vary depending on additives. Take note also of additives.
- The applicability may vary depending on impurities.
   Take note also of impurities.
- 5. Examples of transfer liquids are shown in the table on the left. Since the applicability may vary depending on your operating conditions, be sure to check it by means of experimentation.
- **6.** The compatibility shown in the table is when the fluid temperature is within the product specification (90°C or less).
- Note 1) Static electricity may be generated. Take measures to prevent static electricity.
- Note 2) Fluid may permeate through and affect parts made of other materials.