



SMALL PNEUMATIC SUCTION PUMPS PA

The assembly of a pressure adjuster equipped with pressure gauge and of an FCL filter on the suction inlet connection of a vacuum generator of the M...SSX range has allowed creating these small pneumatic suction pumps. Their main features include reduced overall dimensions compared to their technical performance.

The level of vacuum and flow rate can be adjusted according to the supply air pressure. These pumps are powered with compressed air with a pressure ranging from 1 to 5 bar and they can produce a maximum vacuum of 85% and a suction flow rate between 2 and 18 m³/h, measured at a normal atmospheric pressure of 1013 mbar.

Based on the Venturi principle, they do not develop heat.

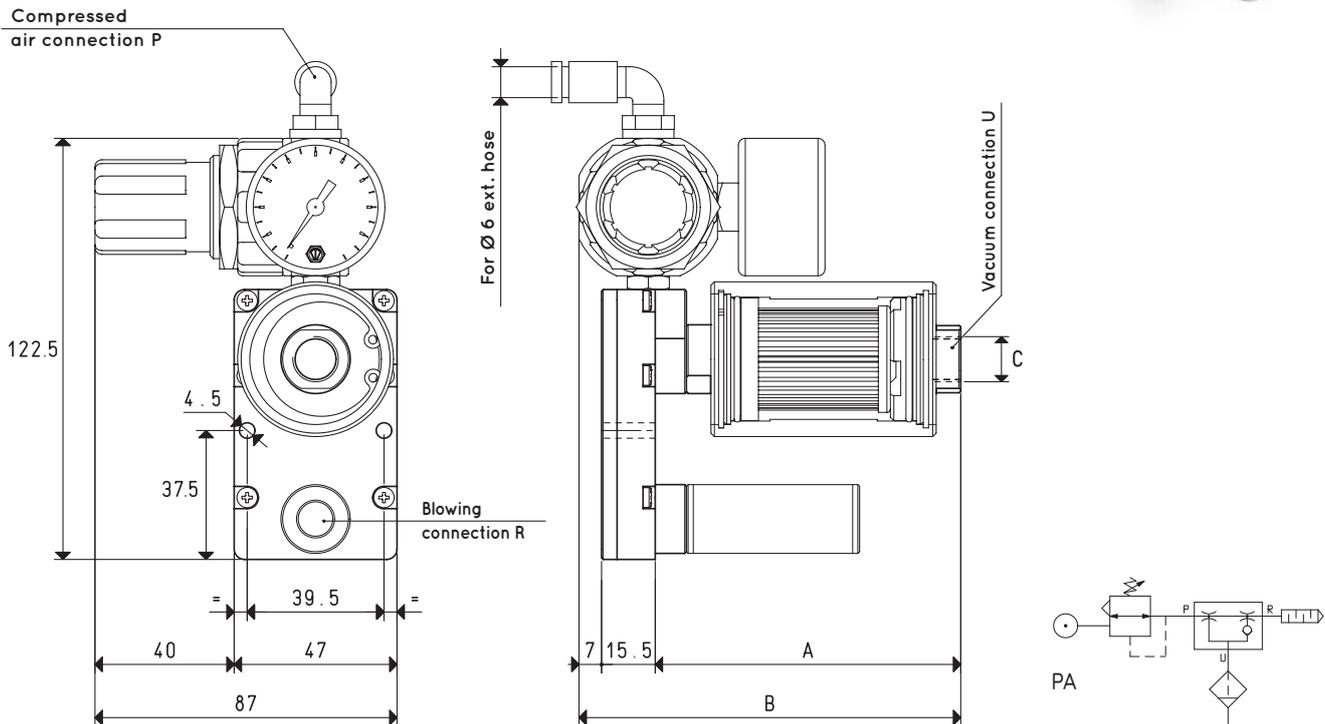
An SSX silencer screwed onto the pump exhaust ensures a silent operation.

The filter equipped with a microporous cartridge is located on the suction inlet connection and can keep the finest dust and impurities.

Thanks to their static operating principle, maintenance is reduced to only a simple regular cleaning of the filter.



3D drawings are available on vuotecnica.net



Item		PA 3				
Supply pressure	bar	1	2	3	4	5
Maximum level of vacuum	-KPa	20	42	62	80	85
Air consumption	Nl/s	0.2	0.4	0.5	0.7	0.8
Intake air flow rate	m ³ /h	2.0	2.5	3.0	3.4	3.6
A		88				
B		110.5				
C	∅	G1/4"				
Weight	Kg	0.45				
Item		PA 7				
Supply pressure	bar	1	2	3	4	5
Maximum level of vacuum	-KPa	20	42	62	80	85
Air consumption	Nl/s	0.4	0.6	0.8	1.2	1.4
Intake air flow rate	m ³ /h	3.0	4.0	5.4	5.8	6.2
A		89				
B		111.5				
C		G3/8"				
Weight	Kg	0.46				
Operating temperature	°C	-20 / +60				

NOTE: All vacuum values indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.

Vacuum generator supply must be carried out with non-lubricated compressed air, 5 micron filtration, in accordance with standard ISO 8573-1 class 4.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

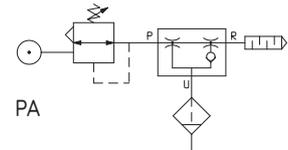
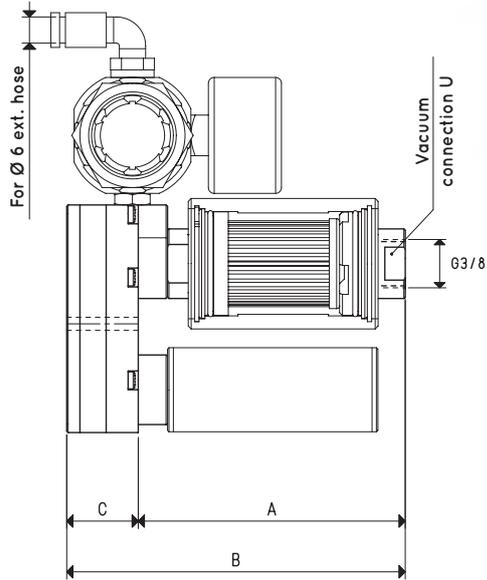
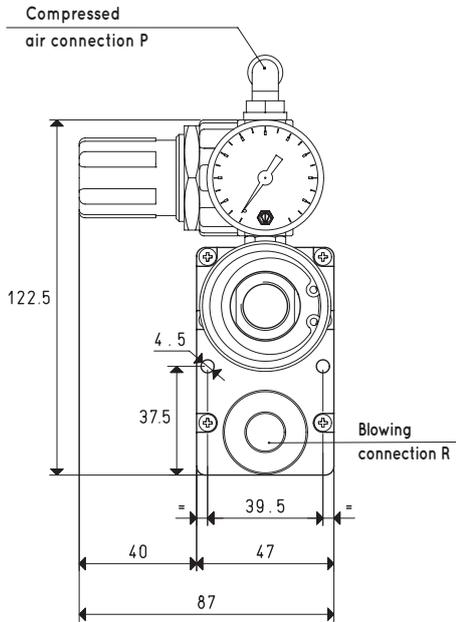
inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

Adapters for GAS - NPT threading available on page 1.134



SMALL PNEUMATIC SUCTION PUMPS PA 10, PA 14 and PA 18

3D drawings are available on vuototecnica.net



Item		PA 10				
Supply pressure	bar	1	2	3	4	5
Maximum level of vacuum	-KPa	20	42	62	80	85
Air consumption	Nl/s	0.5	0.9	1.2	1.6	1.9
Intake air flow rate	m³/h	4.0	6.0	7.7	8.5	9.4
A		94				
B		118.5				
C		24.5				
Weight	Kg	0.59				
Item		PA 14				
Supply pressure	bar	1	2	3	4	5
Maximum level of vacuum	-KPa	20	42	62	80	85
Air consumption	Nl/s	0.9	1.3	1.7	2.1	2.5
Intake air flow rate	m³/h	6.0	8.0	10.2	11.5	12.6
A		94				
B		118.5				
C		24.5				
Weight	Kg	0.60				
Item		PA 18				
Supply pressure	bar	1	2	3	4	5
Maximum level of vacuum	-KPa	20	42	62	80	85
Air consumption	Nl/s	1.2	1.7	2.3	2.9	3.6
Intake air flow rate	m³/h	8.0	11.5	14.8	16.5	18.0
A		102				
B		128.5				
C		34.5				
Weight	Kg	0.62				
Operating temperature	°C	-20 / +60				

NOTE: All vacuum values indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.

Vacuum generator supply must be carried out with non-lubricated compressed air, 5 micron filtration, in accordance with standard ISO 8573-1 class 4.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

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