SAFETY SUCTION UNITS WITH SYPHON FILTER

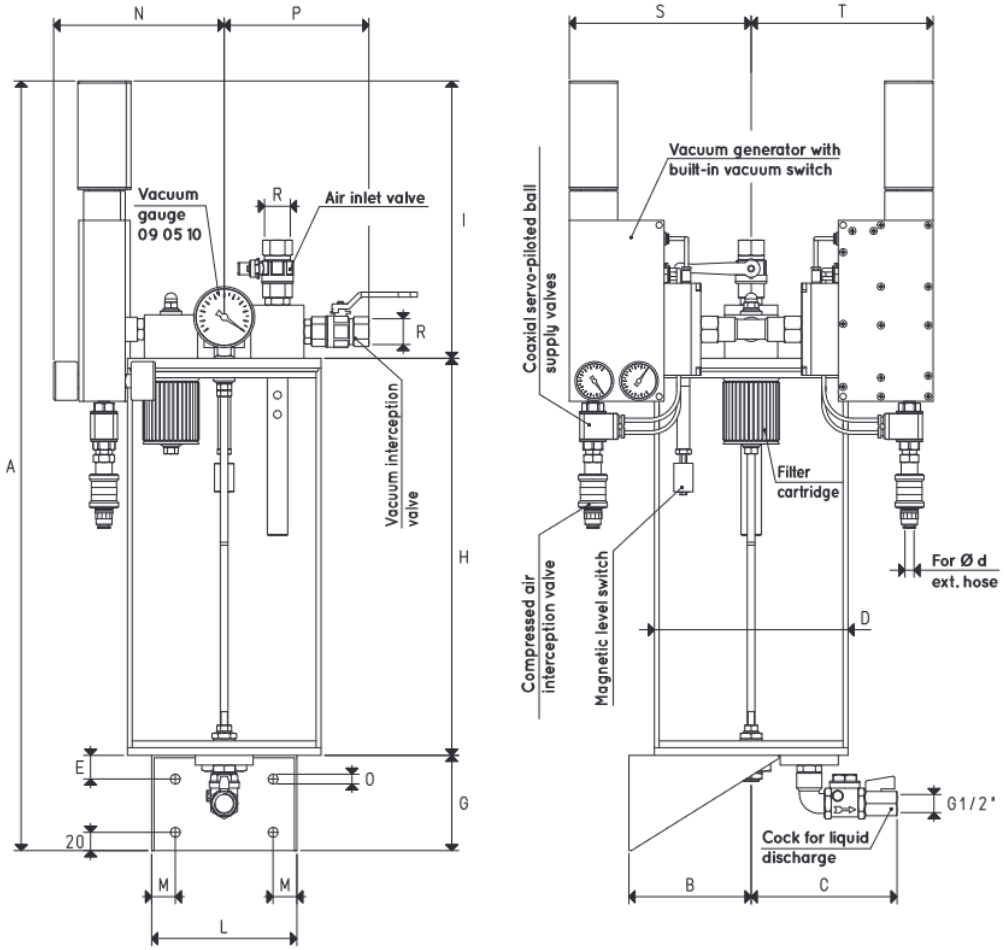


These units have the same functions as the previous ones, but they differ in their automation and composition. In fact, these devices are composed of:
- A standard syphon filter described in Chapter 5.
- Two compressed air-operated multi-stage vacuum generators with a built-in energy-saving system ES.
- A vacuum gauge for a direct reading of the level of vacuum in the container.
- Two sleeve valves for compressed air interception.

These safety suction units normally provide for the operation of one vacuum generator with subsequent automatic insertion of the other one for higher consumptions and when, for whatever reason, the plant level of vacuum goes below the preset minimum value. All this also guarantees continuous operation even in presence of a vacuum generator breakdown.
The level of vacuum, preset with the vacuum switch, is automatically maintained in the Plexiglass container. These suction units with syphon filter are suited for vacuum cup clamping systems for gripping glass, marble, granite, light alloys and in all those cases with a considerable presence of refrigerating liquids and an effective need to ensure the presence of vacuum throughout the entire production cycle.
They are also recommended for suctioning creamy or muddy substances which can be difficult to handle with traditional pumps.
These suction assemblies are fed by compressed air at a pressure of 4-6 bar only. Available in other versions upon request.

Technical features

Operating pressure: from 0.5 to 1000 absolute mbar
Fluid temperature: from -5 to +50°C
Level of filtration: 60 µ



Item	A	B	C	d	D	E	G	H	I	L	M	N	O	P	R	S	T	2 Generators of vacuum	Capacity	Weight
				Ø	Ø								Ø		Ø			item	L	Kg
GAS FS 20 ES	800	130	175	8	200	25	100	410	290	150	25	175	10	145	G1/2"	188	188	PVP 25 MDX ES	10.5	11.5
GAS FS 25 ES	900	150	195	8	240	25	100	510	290	170	30	175	11	180	G3/4"	188	188	PVP 50 MDX ES	19.5	14.0
GAS FS 30 ES	1060	190	225	12	300	30	120	610	330	200	40	190	11	220	G1"	201	201	PVP 75 MDX ES	38.0	24.0

NOTE: 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 = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

3D drawings are available on vuototecnica.net