

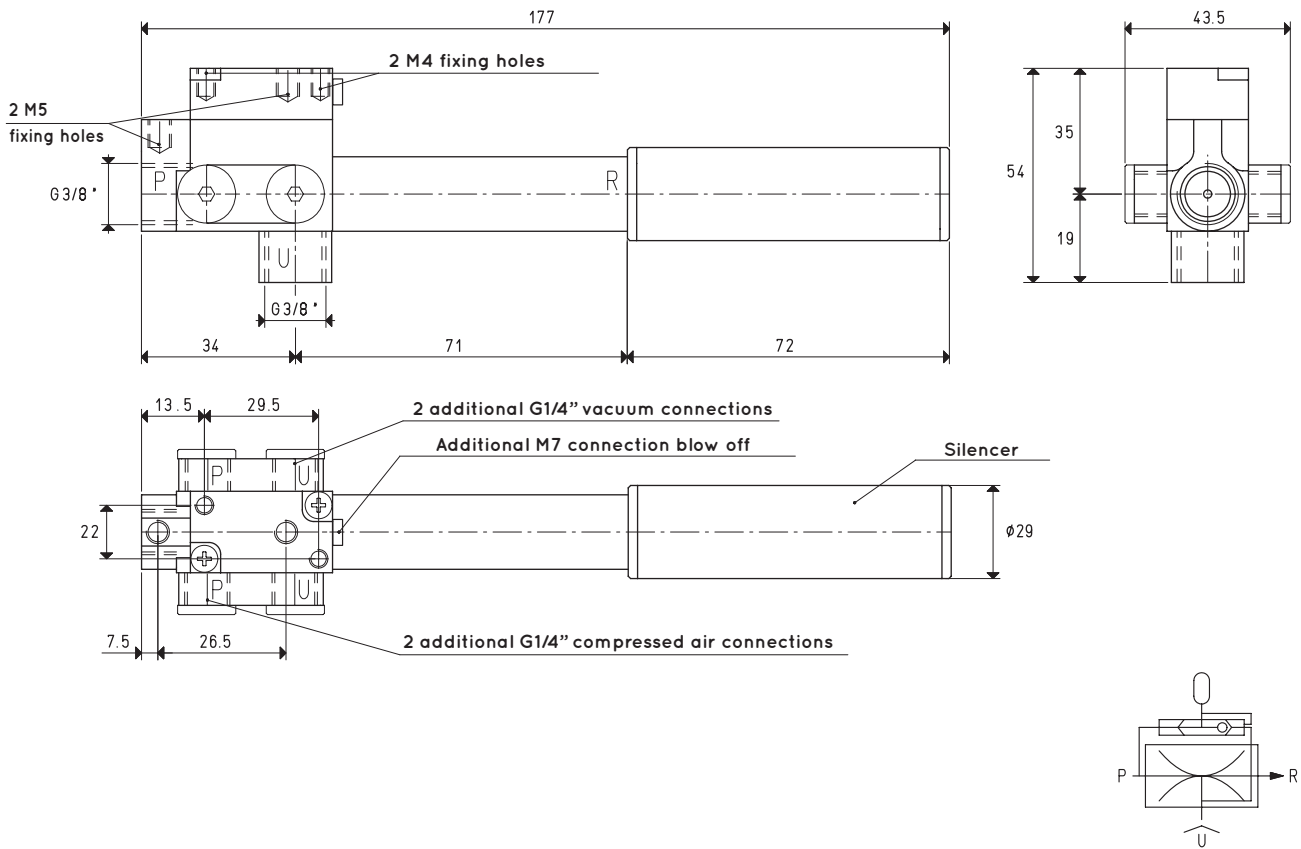
SINGLE-STAGE VACUUM GENERATORS WITH EJECTOR FVG 8 and FVG 12



Specifically designed for very high frequency gripping and release applications, these single-stage vacuum generators are based on the Venturi principle and are equipped with a pneumatic ejector, which can be implemented on request through the M7 connection on the lid, to allow maximum speed in restoring the atmospheric pressure of use. The key features are its considerably reduced weight, supply compressed air pressure of less than 4 bar, low energy consumption, simplicity of installation and low noise level during use, thanks to the high sound dampening silencer installed as standard on the generators. The pneumatic ejector can be deactivated simply by means of a membrane integrated onto the generators. These generators, like the previous ones, are also fully made with anodised aluminium.



3D drawings are available on vuototecnica.net



		P=COMPRESSED AIR CONNECTION	R=EXHAUST	U=VACUUM CONNECTION			
Item		FVG 8			FVG 12		
Intake air flow rate	m ³ /h	8.0	8.6	8.8	12.0	12.2	12.5
Maximum level of vacuum	-kPa	40	60	90	40	60	90
Final pressure	mbar abs.	600	400	100	600	400	100
Supply pressure	bar	2	3	3.5	2	3	3.5
Optimal supply pressure	bar			3.5			3.5
Air consumption	NI/s	2.8	3.8	4.3	3.7	5	5.5
Operating temperature	°C			-20 / +80			-20 / +80
Noise level at optimal supply pressure	dB(A)			60			63
Weight	g			250			252
Spare parts		FVG 8			FVG 12		
Silencer	item	SSX 3/8"			SSX 3/8"		
Sealing kit and reed valves	item	00 15 538			00 15 538		

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)

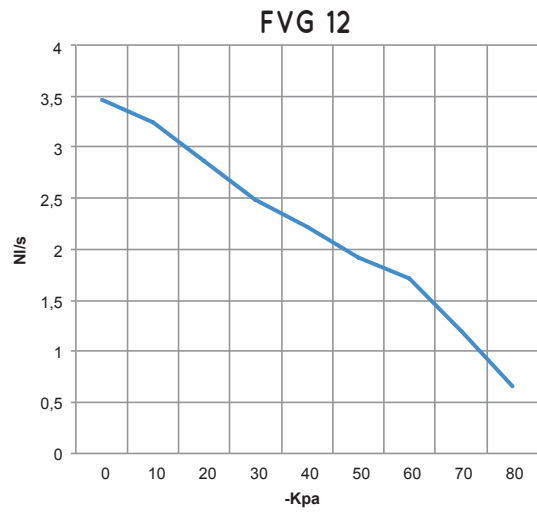
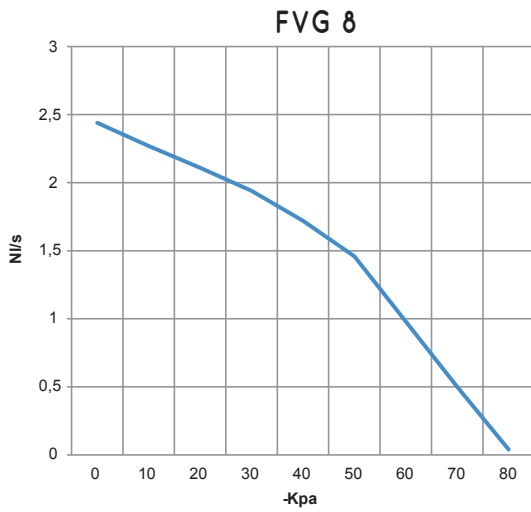
inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

Adapters for GAS - NPT threading available on page 1.130



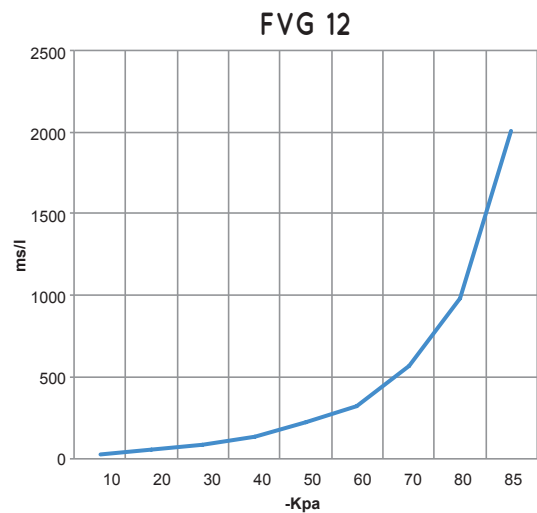
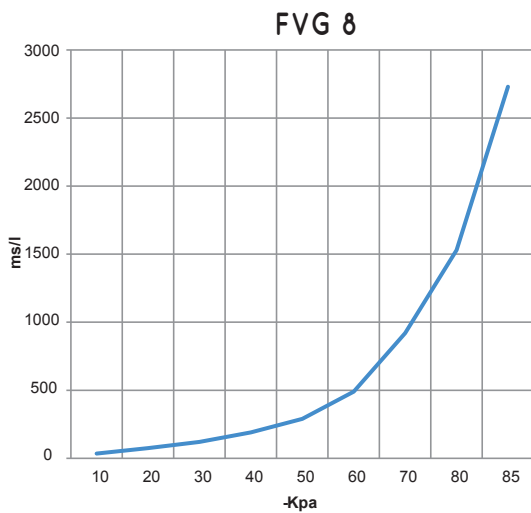
SINGLE-STAGE VACUUM GENERATORS WITH EJECTOR FVG 8 and FVG 12

Air flow rate (NI/s) at different level of vacuum (-KPa) at optimal supply pressure



Generator item	Supp. press. bar	Air consumption NI/s	Air flow rate (NI/s) at different levels of vacuums (-KPa) at optimal supply pressure										Max vacuum -KPa
			0	10	20	30	40	50	60	70	80		
FVG 8	3.5	4.3	2.44	2.27	2.11	1.94	1.72	1.46	0.98	0.50	0.04	90	
FVG 12	3.5	5.5	3.47	3.24	2.86	2.49	2.22	1.92	1.72	1.20	0.65	90	

Evacuation rates (ms/l = s/m³) at different levels of vacuums (-KPa) at optimal supply pressure



Generator item	Supp. press. bar	Air consumption NI/s	Evacuation rates (ms/l = s/m ³) at different levels of vacuums (-KPa) at optimal supply pressure										Max vacuum -KPa
			10	20	30	40	50	60	70	80	85		
FVG 8	3.5	4.3	35	75	120	190	290	490	920	1530	2730	90	
FVG 12	3.5	5.5	25	54	90	140	220	320	570	980	2012	90	