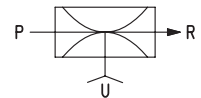
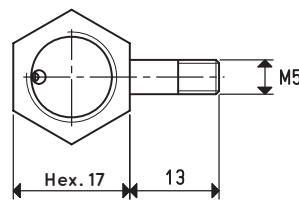
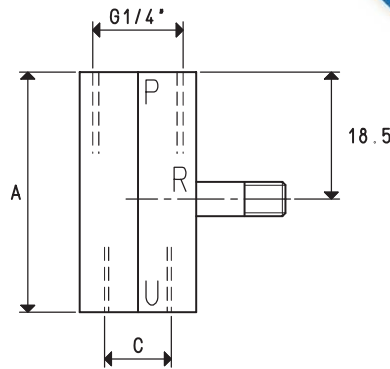




IN-LINE SINGLE-STAGE VACUUM GENERATORS GV 1, GV 2 and GV 3

These vacuum generators also operate based on the Venturi principle. The feature that distinguishes them from classic vacuum generators are the two air supply and the vacuum connections, located on the same axis, while the connection relative to the intake-air discharge and exhaust air connections are set orthogonally to them. The advantages of this configuration are less bulky dimensions, easy assembly, and ease of maintenance. These vacuum generators can be assembled directly onto the vacuum cup supports or on cup holders. They are fully made with anodised aluminium, except the exhaust nozzle which is made with brass.



P=COMPRESSED AIR CONNECTION R=EXHAUST U=VACUUM CONNECTION

Item		GV1			GV2			GV3		
Intake air flow rate	m ³ /h	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Maximum level of vacuum	-KPa	60	75	85	60	75	85	60	75	85
Final pressure	mbar abs.	400	250	150	400	250	150	400	250	150
Supply pressure	bar	3	4	5	3	4	5	3	4	5
Optimal supply pressure	bar			5			5			5
Air consumption	NI/s	0.30	0.35	0.45	0.30	0.35	0.45	0.30	0.35	0.45
Operating temperature	°C			-20 / +80			-20 / +80			-20 / +80
Noise level at optimal supply pressure	dB(A)			70			70			70
Weight	g			21			20			19
A				30			35			38
C	∅			M5			G1/8"			G1/4"

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 = $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

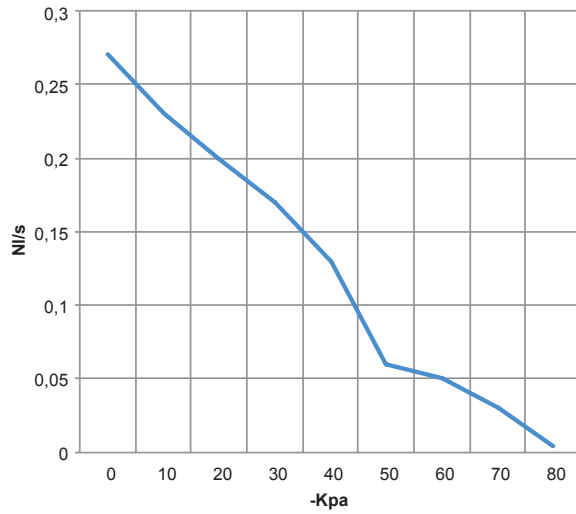
Adapters for GAS - NPT threading available on page 1.130



IN-LINE SINGLE-STAGE VACUUM GENERATORS GV 1, GV 2 and GV 3

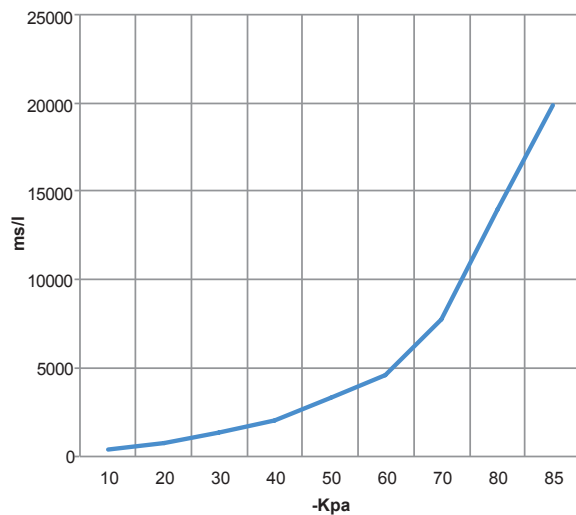
3D drawings are available on vuotecnica.net

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		
GV1 - GV2 - GV3	5.0	0.45	0.27	0.23	0.20	0.17	0.13	0.06	0.05	0.03	--	85	

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		
GV1 - GV2 - GV3	5.0	0.45	394	788	1339	2063	3322	4617	7711	13973	19841	85	