

SINGLE-STAGE VACUUM GENERATORS PVP 2 and PVP 3

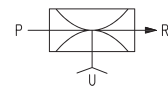
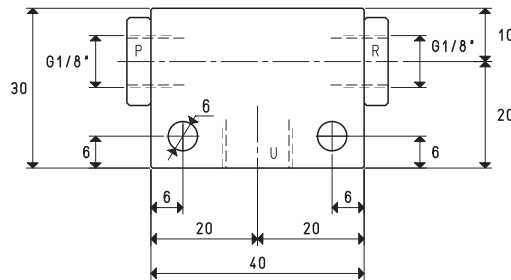
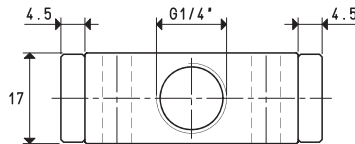
With their extremely reduced size and high performance, these single-stage vacuum generators operate exploiting the Venturi principle.

Supplying the generator with compressed air in P, vacuum will be generated at connection U, while both the supply and the sucked air will be released through R.

By interrupting the air supply in P, the vacuum effect in U will also stop.

The vacuum generators described in this page are generally used for interconnecting vacuum cups, for gripping and handling non-porous objects and equipment with low capacity requirements.

They are made with anodised aluminium with brass ejectors.



3D drawings available at www.vuototecnica.net

	P=COMPRESSED AIR CONNECTION	R=EXHAUST	U=VACUUM CONNECTION	PVP 2	
Art.					
Quantity of sucked air			cum/h	2.8	3.0
Max. vacuum level			-kPa	60	85
Final pressure			mbar abs.	400	150
Supply pressure			bar (g)	4	6
Air consumption			NI/s	0.7	1.0
Working temperature			°C		-20 / +80
Noise level			dB(A)		78
Weight			g		70

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

8.16

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

GAS-NPT thread adapters available at page 1.117

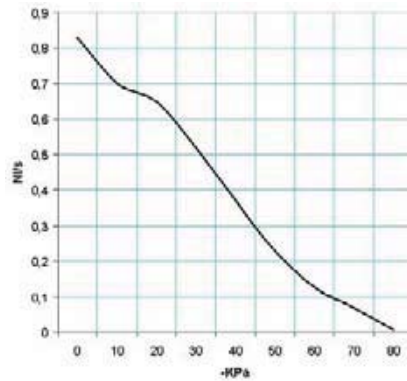


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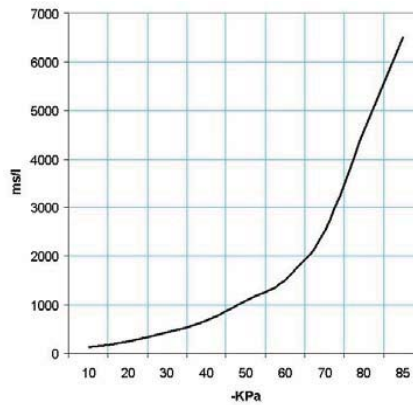
SINGLE-STAGE VACUUM GENERATORS PVP 2

Air capacity (NI/s) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Air capacity (NI/s) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			0	10	20	30	40	50	60	70	80	85	
PVP 2	6.0	1.0	0.83	0.70	0.65	0.52	0.37	0.23	0.13	0.07	0.007	85	

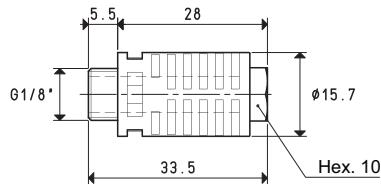
Evacuation time (ms/l=s/m³) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l = s/m ³) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			10	20	30	40	50	60	70	80	85		
PVP 2	6.0	1.0	128	257	438	675	1087	1511	2523	4572	6492	85	

Accessories upon request

Silencer art. 00 15 74



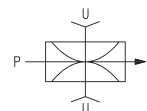
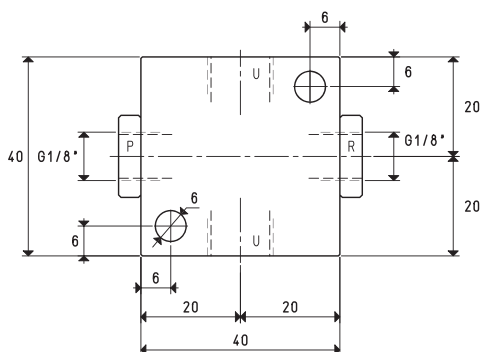
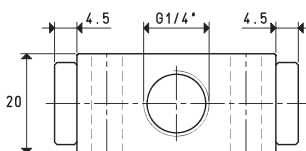
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Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

GAS-NPT thread adapters available at page 1.117



SINGLE-STAGE VACUUM GENERATORS PVP 3



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

Art.	PVP 3			
Quantity of sucked air	cum/h	3.4	3.5	3.7
Max. vacuum level	-KPa	60	70	85
Final pressure	mbar abs.	400	300	150
Supply pressure	bar (g)	4	5	6
Air consumption	NI/s	1.1	1.3	1.5
Working temperature	°C	-20 / +80		
Noise level	dB(A)	80		
Weight	g	100		

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

8.18

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

GAS-NPT thread adapters available at page 1.117



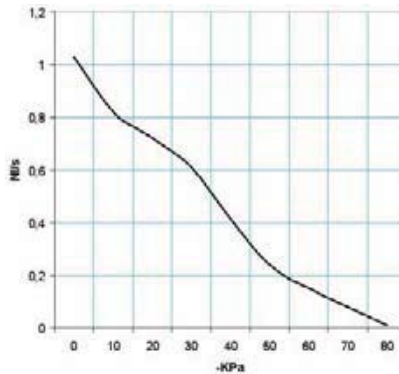
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3D drawings available at www.vuototecnica.net

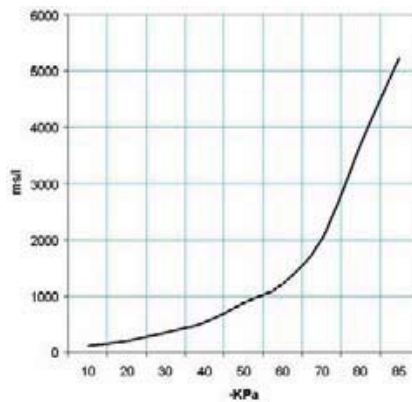
SINGLE-STAGE VACUUM GENERATORS PVP 3

Air capacity (NI/s) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Air capacity (NI/s) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			0	10	20	30	40	50	60	70	80	85	
PVP 3	6.0	1.5	1.03	0.82	0.72	0.61	0.41	0.24	0.15	0.08	0.008	85	

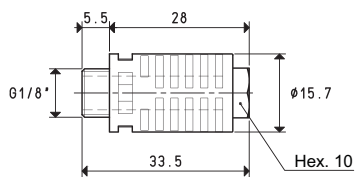
Evacuation time (ms/l= s/m^3) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l= s/m^3) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			10	20	30	40	50	60	70	80	85		
PVP 3	6.0	1.5	104	207	353	544	857	1217	2033	3684	5232	85	

Accessories upon request

Silencer art. 00 15 74



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Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$

GAS-NPT thread adapters available at page 1.117