

SINGLE-STAGE VACUUM GENERATORS PVP 2 and PVP 3

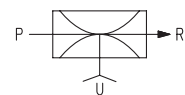
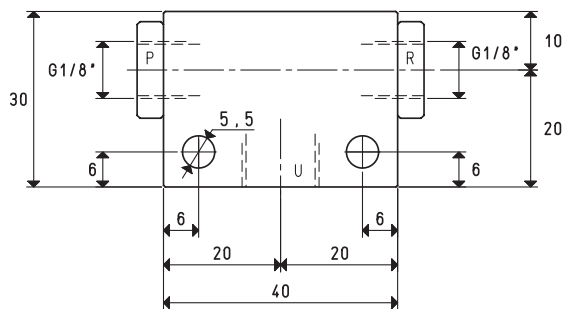
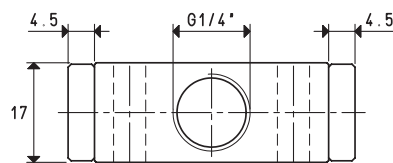
With their extremely reduced size and high performance, these single-stage vacuum generators operate exploiting the Venturi principle.

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.

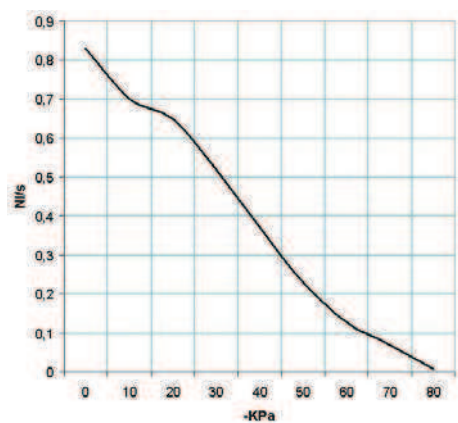
They are made with anodised aluminium with brass ejectors.



P=COMPRESSED AIR CONNECTION		R=EXHAUST	U=VACUUM CONNECTION		
Art.			PVP 2		
Quantity of sucked air		cum/h	2.8	2.9	3.0
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	0.7	0.9	1.0
Working temperature		°C			-20 / +80
Noise level		dB(A)			78
Weight		g			70

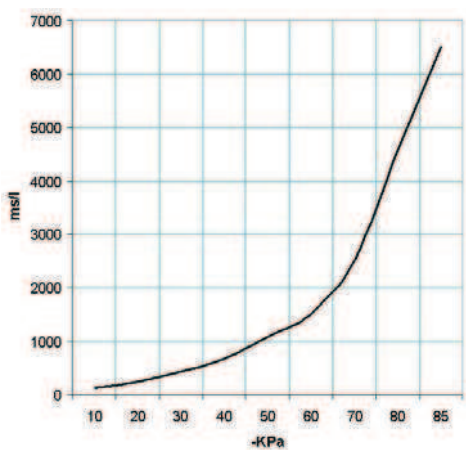
**Note:** All the vacuum data indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and are obtained with a constant supply pressure.

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		
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

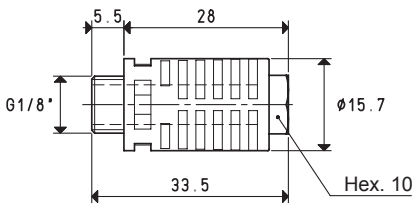
Evacuation time (ms/l=s/m³) at different vacuum levels (-Kpa)



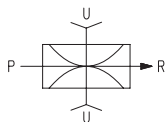
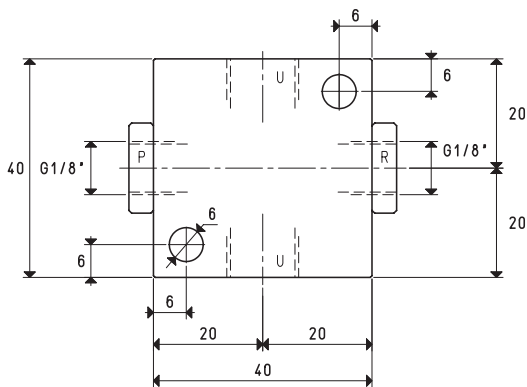
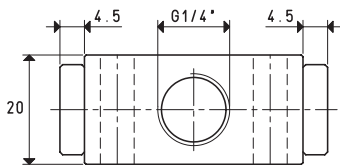
Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l = s/m³) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			10	20	30	40	50	60	70	80	85		
PVP 2	6.0	1.0	128	257	438	675	1087	1511	2523	4572	6492		85

Accessories upon request

Silencer art. 00 15 74



SINGLE-STAGE VACUUM GENERATORS PVP 3

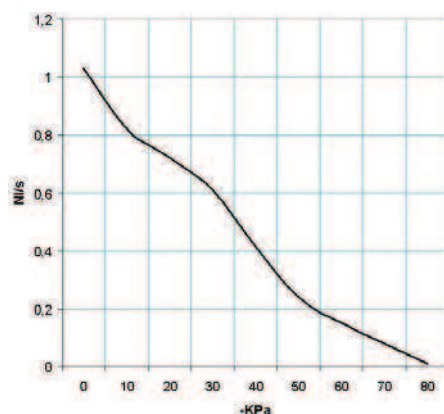


P=COMPRESSED AIR CONNECTION      R=EXHAUST      U=VACUUM CONNECTION

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

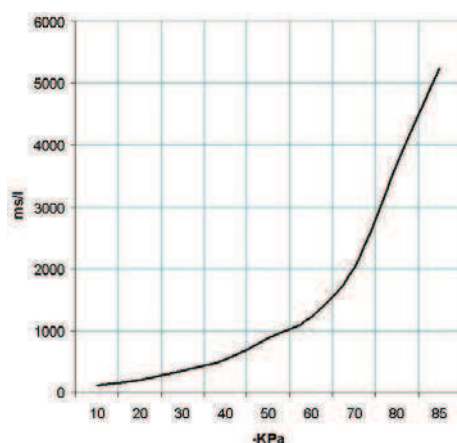
**Note:** All the vacuum data indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and are obtained with a constant supply pressure.

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	0.008	85

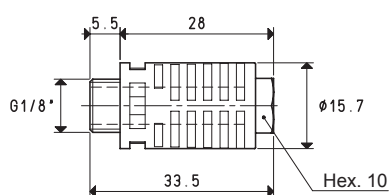
Evacuation time (ms/l=s/m³) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l = s/m³) at different vacuum levels (-kPa)									Max. vacuum level
			10	20	30	40	50	60	70	80	85	-kPa
PVP 3	6.0	1.5	104	207	353	544	857	1217	2033	3684	5232	85

## Accessories upon request

Silencer art. 00 15 74



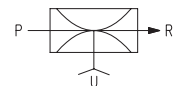
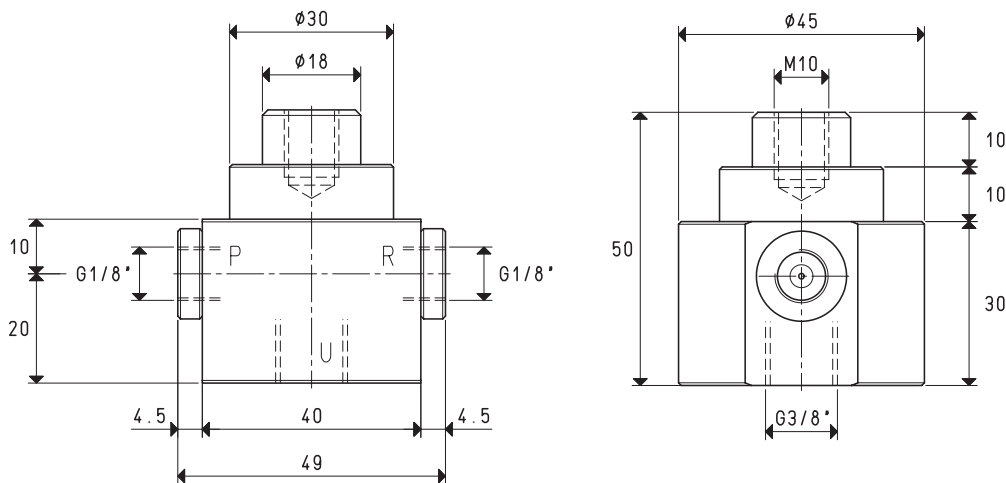
SINGLE-STAGE VACUUM GENERATORS PVP 2 M

The vacuum generators described in this page are also based on the Venturi principle and share the same technical features as the previous ones. Their distinctive feature is their shape.

The vacuum connection U, in fact, is threaded to allow the assembly of a vacuum cup with a male 3/8" threaded gas support, while in-line, but on the opposite side an M 10 threaded hole allows installing the generator directly onto the machine or on the cup holders with springing device. They are fully made with anodised aluminium, with brass ejectors.

Equipped with a vacuum cup, they are true independent gripping units.

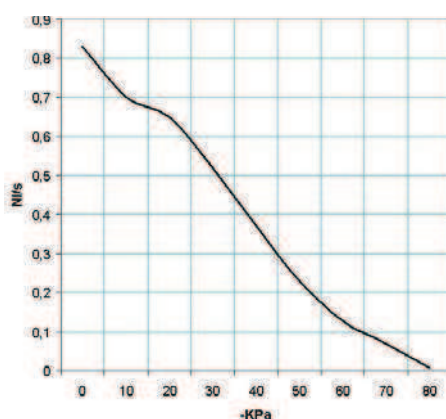
These vacuum generators are suited for vacuum cup operated loaders or handlers, for gripping sheet steel, glass slabs, plastic panels and other similar products.



P=COMPRESSED AIR CONNECTION		R=EXHAUST	U=VACUUM CONNECTION		
Art.	PVP 2 M				
Quantity of sucked air	cum/h		2.8	2.9	3.0
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		0.7	0.9	1.0
Working temperature	°C				-20 / +80
Noise level	dB(A)				78
Weight	g				162

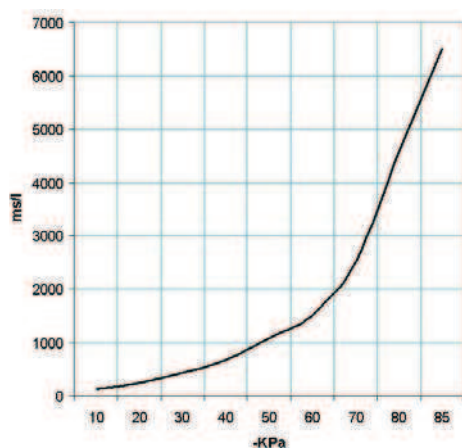
**Note:** All the vacuum data indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and are obtained with a constant supply pressure.

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 M	6.0	1.0	0.83	1.70	0.65	0.52	0.37	0.23	0.13	0.07	0.007	0.007	85

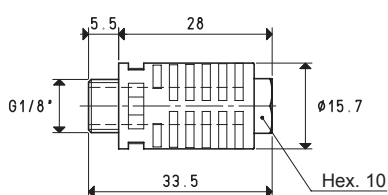
Evacuation time (ms/l=s/m³) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l = s/m³) at different vacuum levels (-kPa)									Max. vacuum level
			10	20	30	40	50	60	70	80	85	-kPa
PVP 2 M	6.0	1.0	128	257	438	675	1087	1511	2523	4572	6492	85

## Accessories upon request

Silencer art. 00 15 74



SINGLE-STAGE VACUUM GENERATORS PVP 7 X

Vacuum generators PVP 7 X also exploit the Venturi principle. Their distinctive feature compared to PVP 2 and PVP 3 is their greater suction capacity, thanks to the association of two ejectors in parallel.

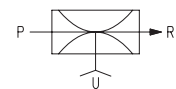
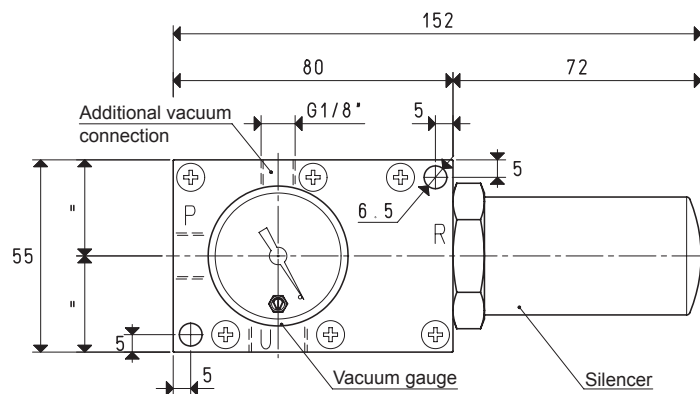
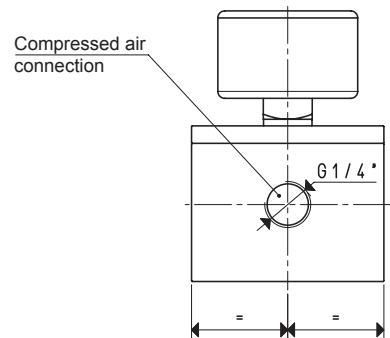
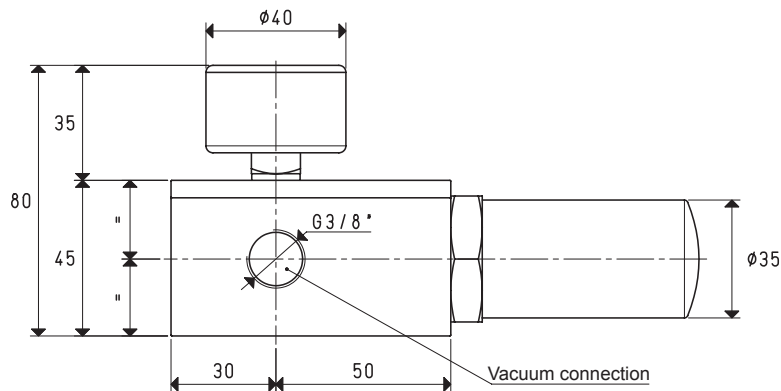
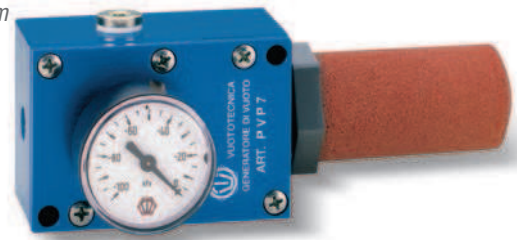
A special silencer made with sintered ceramic is installed on their exhaust, making them particularly silent.

As a standard, they are equipped with a vacuum gauge for a direct reading of the vacuum level.

An additional connection on the body of the generator allows the installation of a mini vacuum switch for signalling the vacuum level, or of a pneumatic solenoid valve for a quick restoration of the atmospheric pressure at the service.

They are fully made with anodised aluminium, with stainless steel ejectors.

These vacuum generators can be used for connecting one or more vacuum cups or equipment with capacity requirements within the shown values.

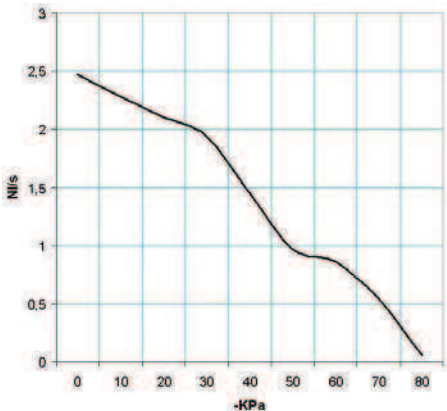


P=COMPRESSED AIR CONNECTION		R=EXHAUST		U=VACUUM CONNECTION	
Art.				PVP 7 X	
Quantity of sucked air	cum/h	8.5	8.8	8.9	
Max. vacuum level	-KPa	60	73	85	
Final pressure	mbar abs.	400	270	150	
Supply pressure	bar (g)	4	5	6	
Air consumption	NI/s	2.3	2.8	3.2	
Working temperature	°C			-20 / +80	
Noise level	dB(A)			63	
Weight	g			470	
Spare parts					
Sealing kit	art.				00 15 276
Vacuum gauge	art.				09 03 15
Silencer	art.				00 15 55

**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.

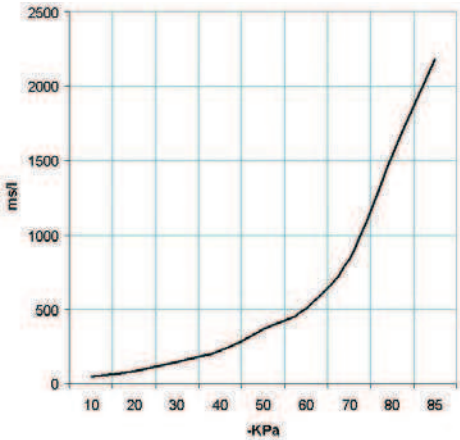


Air capacity (NI/s) at different vacuum levels (-Kpa)



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		
PVP 7 X	6.0	3.2	2.47	2.28	2.10	1.94	1.44	0.97	0.86	0.54	0.05		85

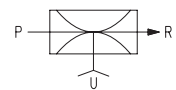
Evacuation time (ms/l=s/m³) at different vacuum levels (-Kpa)



Generator art.	Supply press. bar (g)	Air consumption NI/s	Evacuation time (ms/l = s/m³) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			10	20	30	40	50	60	70	80	85		
PVP 7 X	6.0	3.2	43	86	147	226	365	507	847	1536	2181		85

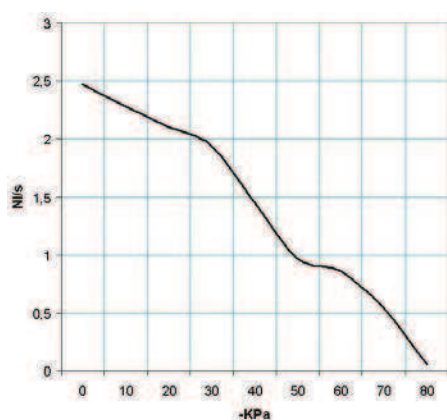


*They can be used as PVP 7X and, in addition, they can also operate in humid or dusty environments.*



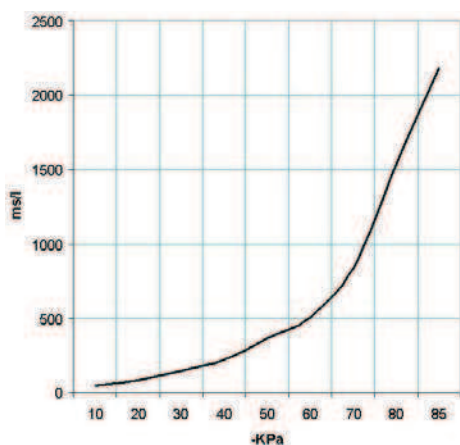
GAS-NPT thread adapters available at page 1.117

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		
<b>PVP 7 SX</b>	6.0	3.2	2.47	2.28	2.10	1.94	1.44	0.97	0.86	0.54	0.05		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/m³) at different vacuum levels (-KPa)										Max. vacuum level -KPa
			10	20	30	40	50	60	70	80	85		
<b>PVP 7 SX</b>	6.0	3.2	43	86	147	226	365	507	847	1536	2181		85