



MULTI-STAGE AND MODULAR VACUUM GENERATORS PVP 150 ÷ 750 MD / MDLP - GENERAL DESCRIPTION

The special shape of these vacuum generators has allowed obtaining great suction capacities in very limited overall dimensions.

The new design stainless steel ejectors are assembled on modular frames; the overlapping of one or more frames defines the flow rate of the generators. They are supplied with a flow rate ranging from 85 e 900 m³/h and a maximum level of vacuum of -90KPa.

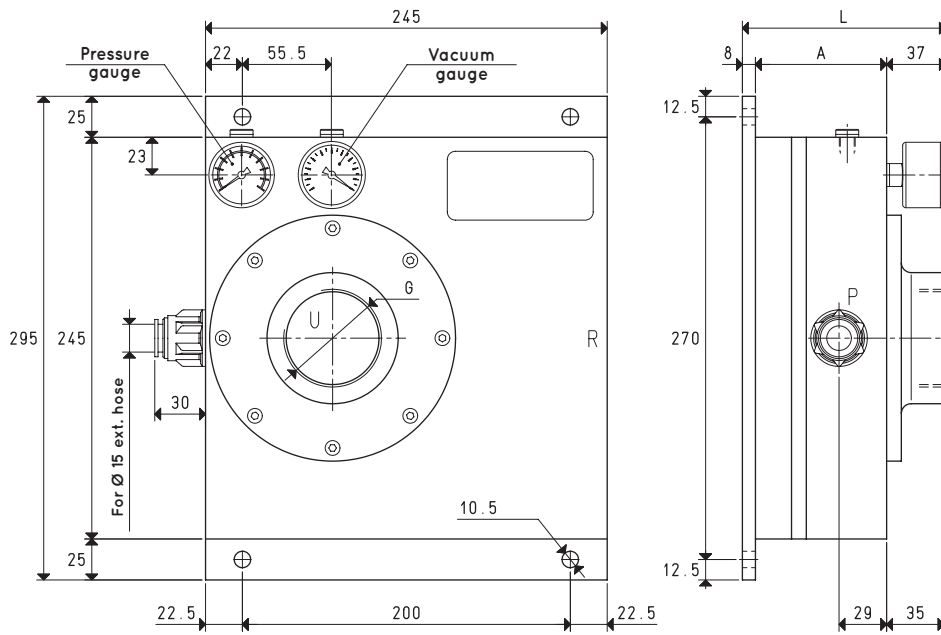
The supply pressure goes from 4-6 bar for MD items and from 1-3 bar for MDLP items. Level of vacuum and flow rate can be adjusted according to the supply air pressure. They are fully made with anodised aluminium.

The sealing gaskets and disc valves are EPDM as standard, but can be supplied in VITON® upon request. Also upon request, an energy saving kit for the compressed air ES (Energy Saving System) can be supplied. It is composed of a pneumatic coaxial shutter valve for supply of the compressed air, an integrated pneumatic vacuum switch, a reed valve kit for the check system and a flexible tube with quick fitting to monitor and transmit the value of the level of vacuum to the vacuum switch.

Perfectly soundproofed with silencers built into all generators, offering extremely quiet operation.

3D drawings are available on vuototecnica.net





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		P=COMPRESSED AIR CONNECTION			R=EXHAUST			U=VACUUM CONNECTION		
Item		PVP 150 MD			PVP 300 MD					
Intake air flow rate	m ³ /h	160	180	200	320	360	400			
Maximum level of vacuum	-KPa	65	82	90	65	82	90			
Final pressure	abs. mbar	350	180	100	350	180	100			
Supply pressure	bar	4	5	6	4	5	6			
Optimal supply pressure	bar			6			6			
Air consumption	NI/s	12.1	14.2	16.0	23.2	27.8	32.0			
Temperature of use	°C			-20 / +100			-20 / +100			
Noise level at optimal supply pressure	dB(A)			72			74			
Weight	Kg			7.0			8.0			
A				80			100			
G	∅			G1" 1/2			G2"			
L				125			145			
Item		PVP 150 MDLP			PVP 300 MDLP					
Intake air flow rate	m ³ /h	85	146	170	190	300	340			
Maximum level of vacuum	-KPa	30	64	88	30	64	88			
Final pressure	abs. mbar	700	360	120	700	360	120			
Supply pressure	bar	1	2	3	1	2	3			
Optimal supply pressure	bar			3			3			
Air consumption	NI/s	10.5	16.5	22.6	22.5	33.6	45.5			
Temperature of use	°C			-20 / +100			-20 / +100			
Noise level at optimal supply pressure	dB(A)			76			78			
Weight	Kg			7.8			8.8			
A				80			100			
G	∅			G1" 1/2			G2"			
L				125			145			
Spare parts		PVP 150 MD / MDLP			PVP 300 MD / MDLP					
Sealing kit and reed valves	item	00 KIT PVP 150 MD			00 KIT PVP 300 MD					
Exhaust silencer	item	00 15 70			00 15 70					
Silencer on nozzles	item	00 15 71			00 15 72					
Vacuum gauge	item	09 03 15			09 03 15					
Pressure gauge	item	09 03 25			09 03 25					

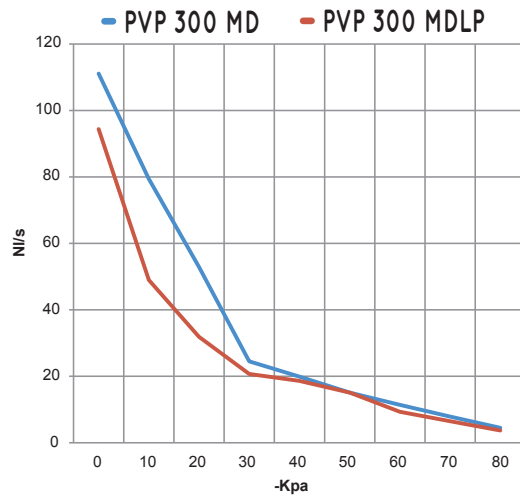
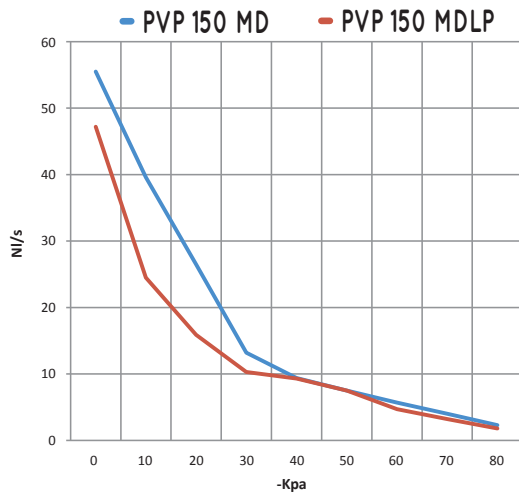
Note: All vacuum values indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.

Add the letter R to the item for a generator supplied with an integrated check valve (Example: PVP 150 MDR).

Vacuum generator supply must be carried out with non-lubricated compressed air, 5 micron filtration, in accordance with standard ISO 8573-1 class 4.

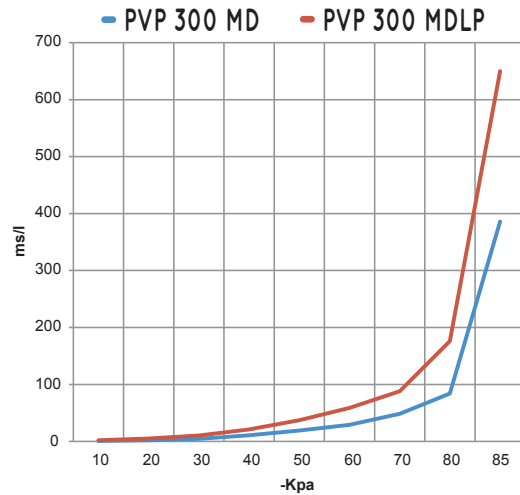
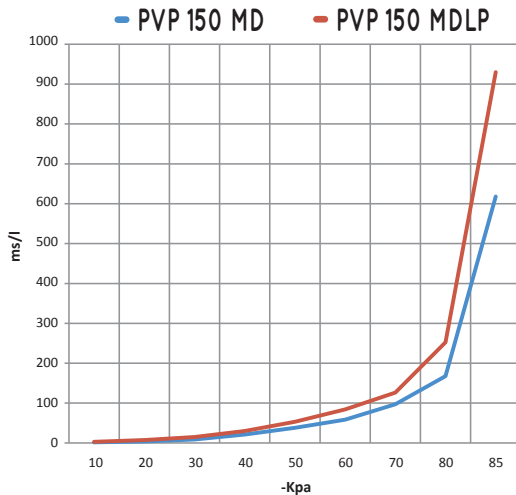


Air flow rate (NI/s) at different levels of vacuums (-KPa) at optimal supply pressure



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		
PVP 150 MD	6.0	16.0	55.5	39.6	26.5	13.2	9.4	7.5	5.7	4.0	2.3	90	
PVP 300 MD	6.0	32.0	111.1	79.4	52.9	26.5	19.9	15.1	11.4	7.9	4.5	90	
PVP 150 MDLP	3.0	22.6	47.2	24.5	15.9	10.3	9.3	7.5	4.7	3.2	1.8	88	
PVP 300 MDLP	3.0	45.5	94.4	49.0	31.9	20.7	18.6	15.1	9.3	6.5	3.7	88	

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	
PVP 150 MD	6.0	16.0	1.6	4.0	8.9	21.3	38.2	58.4	97.0	167.8	618	90
PVP 300 MD	6.0	32.0	0.8	2.0	4.4	10.6	19.1	29.2	48.5	83.9	386	90
PVP 150 MDLP	3.0	22.6	2.9	7.5	15.0	30.1	53.3	84.2	126.3	252.5	930	88
PVP 300 MDLP	3.0	45.5	2.0	5.2	10.5	21.0	37.2	58.7	88.0	176.1	650	88