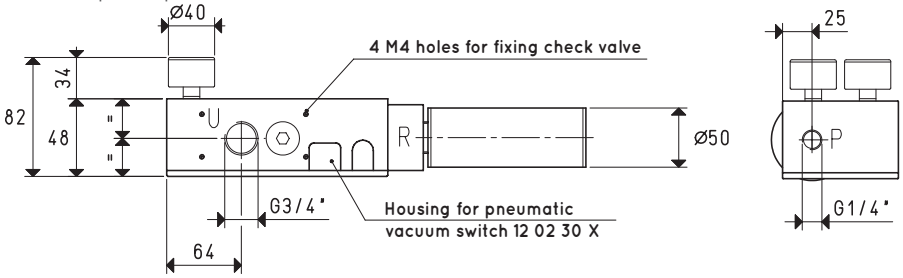
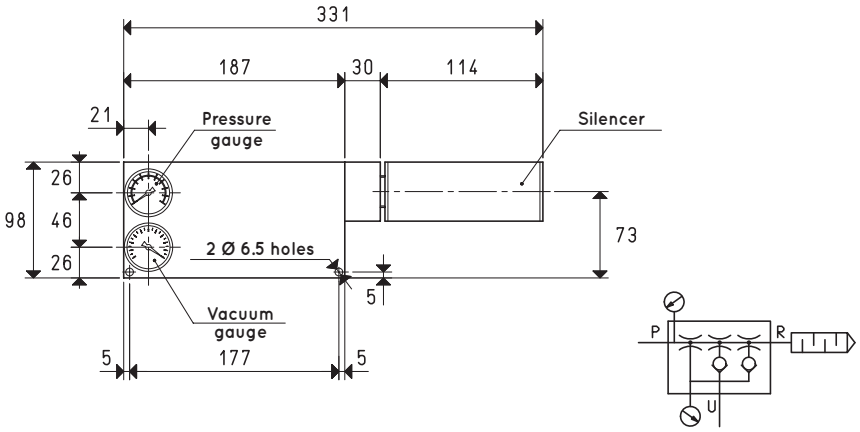
MULTI-STAGE VACUUM GENERATORS
PVP 25 MDX / MDXLP ÷ PVP 75 MDX / MDXLP

This line of generators is available with suction rates between 20 and 103 m³/h. The supply pressure goes from 4-6 bar for MDX items and from 1-3 bar for MDXLP items. The maximum level of vacuum is -90 KPa. Characterised by their new generation of ejectors, boasting an excellent ratio between the quantity of air consumed and that suctioned, benefiting operational consumption. They are fully made with anodised aluminium, with stainless steel ejectors and screws. The tightness seal is made from EPDM, while the reed valves are made as standard and in FKM, upon request. The "free-flow" SSX high sound damping silencers installed as standard on the air exhaust. They are equipped with additional threaded connections for increased points of usage or for the installation of measurement or control tools. Upon request, can be supplied with a compressed air energy savings kit ES (ENERGY SAVING SYSTEM), composed of a pneumatic vacuum regulator, a pneumatic coaxial shutter supply valve, a check valve and necessary tubing.





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

Item		PVP 25 MDX			PVP 35 MDX			PVP 50 MDX		
Intake air flow rate	m³/h	35	39	43	47	52	57	57	62	68
Maximum level of vacuum	-KPa	65	82	90	65	82	90	65	82	90
Final pressure	abs. mbar	350	180	100	350	180	100	350	180	100
Supply pressure	bar	4	5	6	4	5	6	4	5	6
Optimal supply pressure	bar			6			6			6
Air consumption	Nl/s	2.3	2.8	3.2	3.4	4.1	4.8	4.7	5.6	6.5
Temperature of use	°C			-20 / + 80			-20 / +80			-20 / +80
Noise level at optimal supply pressure	dB(A)			58			58			60
Weight	Kg			1.71			1.73			1.75

Item		PVP 25 MDXLP			PVP 35 MDXLP			PVP 50 MDXLP		
Intake air flow rate	m³/h	20	28	35	26	38	47	31	48	58
Maximum level of vacuum	-KPa	30	64	88	30	64	88	30	64	88
Final pressure	abs. mbar	700	360	120	700	360	120	700	360	120
Supply pressure	bar	1	2	3	1	2	3	1	2	3
Optimal supply pressure	bar			3			3			3
Air consumption	Nl/s	2.2	3.3	4.4	3.4	5.0	6.5	4.5	6.6	8.6
Temperature of use	°C			-20 / +80			-20 / +80			-20 / +80
Noise level at optimal supply pressure	dB(A)			62			68			74
Weight	Kg			1.71			1.73			1.75

Spare parts		PVP 25 MDX / MDXLP	PVP 35 MDX / MDXLP	PVP 50 MDX / MDXLP
Sealing kit and reed valves	item	00 KIT PVP 25 MDX	00 KIT PVP 35 MDX	00 KIT PVP 50 MDX
Vacuum gauge	item	09 03 15	09 03 15	09 03 15
Pressure gauge	item	09 03 25	09 03 25	09 03 25
Silencer	item	SSX 3/4"	SSX 3/4"	SSX 3/4"

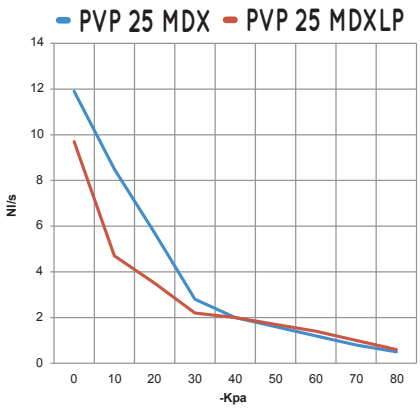
Note: All vacuum values indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.
Add the letters ES to the article for a generator supplied complete with an ES energy saving device (example: PVP 25 MDX ES).
Vacuum generator supply must be carried out with non-lubricated compressed air, 5 micron filtration, in accordance with standard **ISO 8573-1 class 4**.

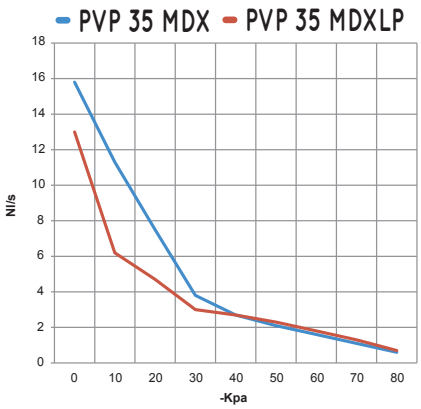
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

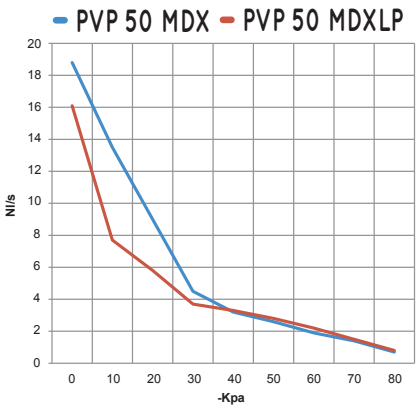
Adapters for GAS - NPT threading available on page 1.134

MULTI-STAGE VACUUM GENERATORS PVP 25 MDX / MDXLP, PVP 35 MDX / MDXLP and PVP 50 MDX / MDXLP

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

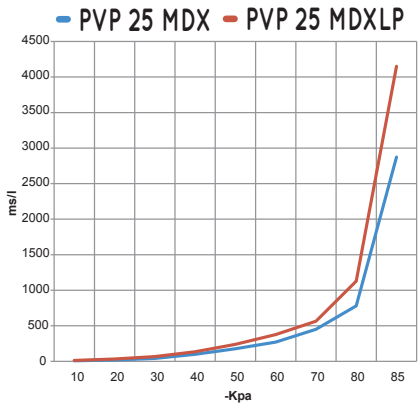


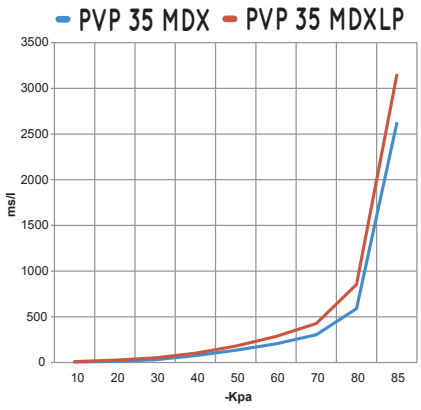


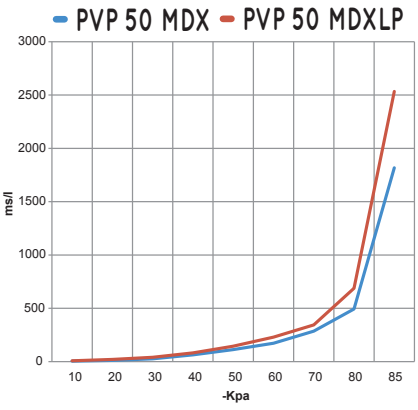


Generator item	Supp. press. bar	Air consumption Nl/s	Air flow rate (Nl/s) at different levels of vacuum (-KPa) at optimal supply pressure									Max vacuum -KPa
			0	10	20	30	40	50	60	70	80	
PVP 25 MDX	6.0	3.2	11.9	8.5	5.7	2.8	2.0	1.6	1.2	0.8	0.5	90
PVP 35 MDX	6.0	4.8	15.8	11.3	7.5	3.8	2.7	2.1	1.6	1.1	0.6	90
PVP 50 MDX	6.0	6.5	18.8	13.5	9.0	4.5	3.2	2.6	1.9	1.4	0.7	90
PVP 25 MDXLP	3.0	4.4	9.7	4.7	3.5	2.2	2.0	1.7	1.4	1.0	0.6	88
PVP 35 MDXLP	3.0	6.5	13.0	6.2	4.7	3.0	2.7	2.3	1.8	1.3	0.7	88
PVP 50 MDXLP	3.0	8.6	16.1	7.7	5.8	3.7	3.3	2.8	2.2	1.5	0.8	88

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

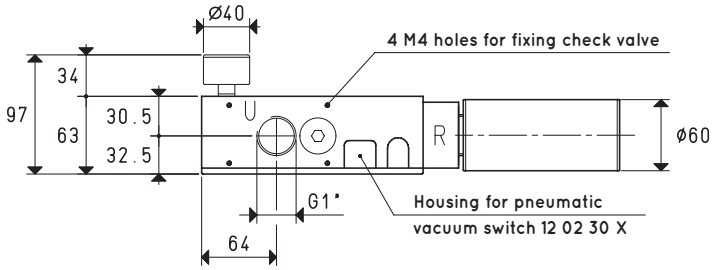


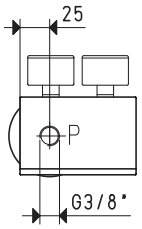


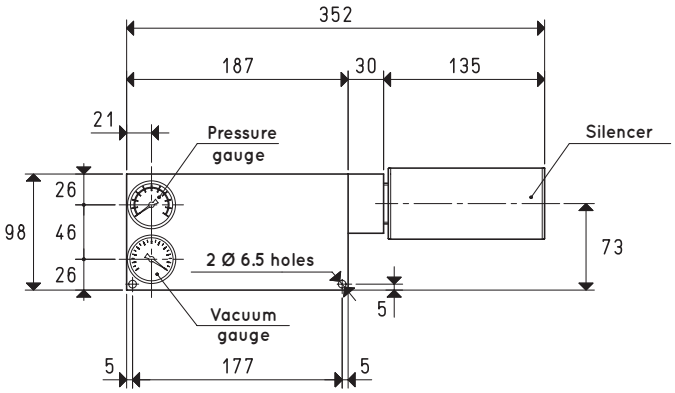


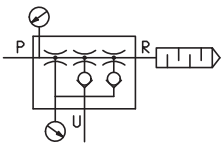
Generator item	Supp. press. bar	Air consumption Nl/s	Evacuation rates (ms/l= s/m³) at different levels of vacuums (-KPa) at optimal supply pressure								Max vacuum -KPa
			10	20	30	40	50	60	70	80	85	
PVP 25 MDX	6.0	3.2	7.5	18.8	41.3	99.3	177.7	271.9	451.4	781.0	2874	90
PVP 35 MDX	6.0	4.8	5.6	14.1	31.2	74.9	134.0	205.1	340.5	589.1	2618	90
PVP 50 MDX	6.0	6.5	4.7	11.9	26.2	62.8	112.4	172.0	285.5	494.0	1818	90
PVP 25 MDXLP	3.0	4.4	13.0	33.3	67.2	134.4	238.0	376.0	564.0	1128.0	4151	88
PVP 35 MDXLP	3.0	6.5	9.8	25.2	50.9	101.9	180.3	284.9	427.3	854.7	3145	88
PVP 50 MDXLP	3.0	8.6	7.9	20.3	41.0	82.0	145.3	229.5	344.3	688.5	2534	88

MULTI-STAGE VACUUM GENERATORS PVP 60 MDX / MDXLP and PVP 75 MDX / MDXLP









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

Item		PVP 60 MDX			PVP 75 MDX		
Intake air flow rate	m^3/h	75	85	92	85	94	103
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	Nl/s	5.9	7.0	8.2	7.0	8.4	9.8
Temperature of use	°C			-20 / +80			-20 / +80
Noise level at optimal supply pressure	dB(A)			65			70
Weight	Kg			1.90			1.92

Item		PVP 60 MDXLP			PVP 75 MDXLP		
Intake air flow rate	m^3/h	35	57	65	44	70	80
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	Nl/s	5.5	8.3	11.0	6.6	9.9	13.2
Temperature of use	°C			-20 / +80			-20 / +80
Noise level at optimal supply pressure	dB(A)			68			70
Weight	Kg			1.90			1.92

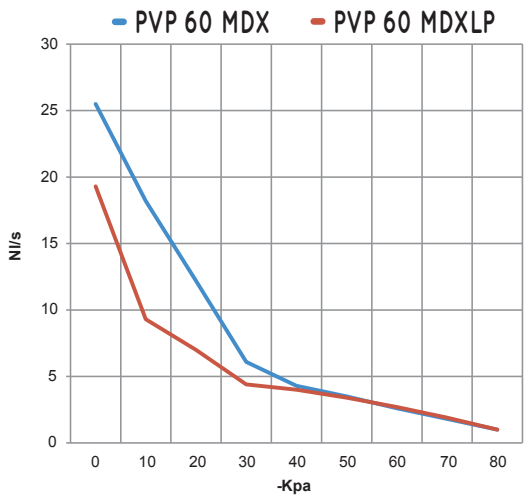
Spare parts		PVP 60 MDX / MDXLP	PVP 75 MDX / MDXLP
Sealing kit and reed valves	item	00 KIT PVP 60 MDX	00 KIT PVP 75 MDX
Vacuum gauge	item	09 03 15	09 03 15
Pressure gauge	item	09 03 25	09 03 25
Silencer	item	SSX 1"	SSX 1"

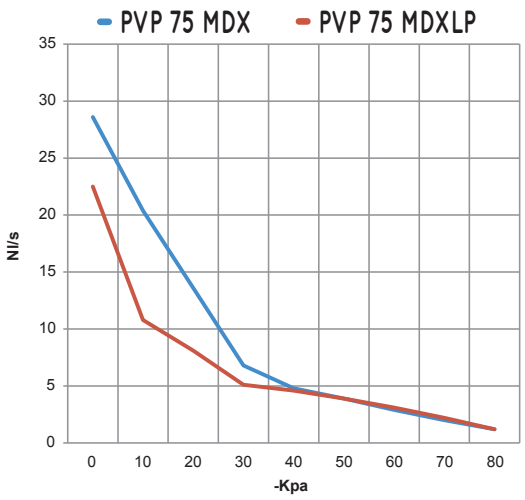
Note: All vacuum values indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.
Add the letters ES to the article for a generator supplied complete with an ES energy saving device (example: PVP 60 MDX ES).
Vacuum generator supply 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 = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$ Adapters for GAS - NPT threading available on page 1.134

MULTI-STAGE VACUUM GENERATORS PVP 60 MDX / MDXLP and PVP 75 MDX / MDXLP

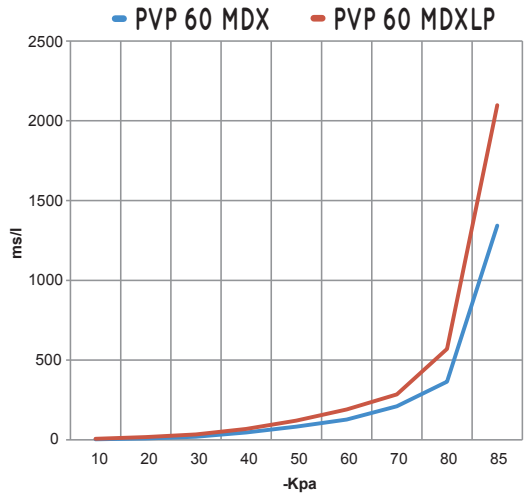
Air flow rate (Nl/s) at different levels of vacuums (-KPa) at optimal supply pressure

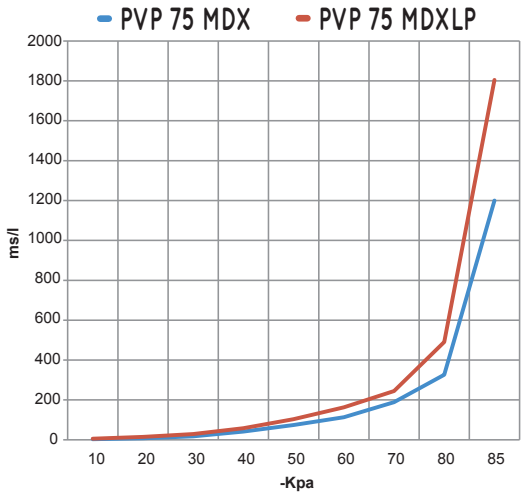




Generator item	Supp. press. bar	Air consumption Nl/s	Air flow rate (Nl/s) at different vacuum levels (-KPa) at optimal supply pressure									Max vacuum
			0	10	20	30	40	50	60	70	80	-KPa
PVP 60 MDX	6.0	8.2	25.5	18.2	12.2	6.1	4.3	3.5	2.6	1.8	1.0	90
PVP 75 MDX	6.0	9.8	28.6	20.4	13.6	6.8	4.8	3.9	2.9	2.0	1.2	90
PVP 60 MDXLP	3.0	11.0	19.3	9.3	7.0	4.4	4.0	3.4	2.7	1.9	1.0	88
PVP 75 MDXLP	3.0	13.2	22.5	10.8	8.1	5.1	4.6	3.9	3.1	2.2	1.2	88

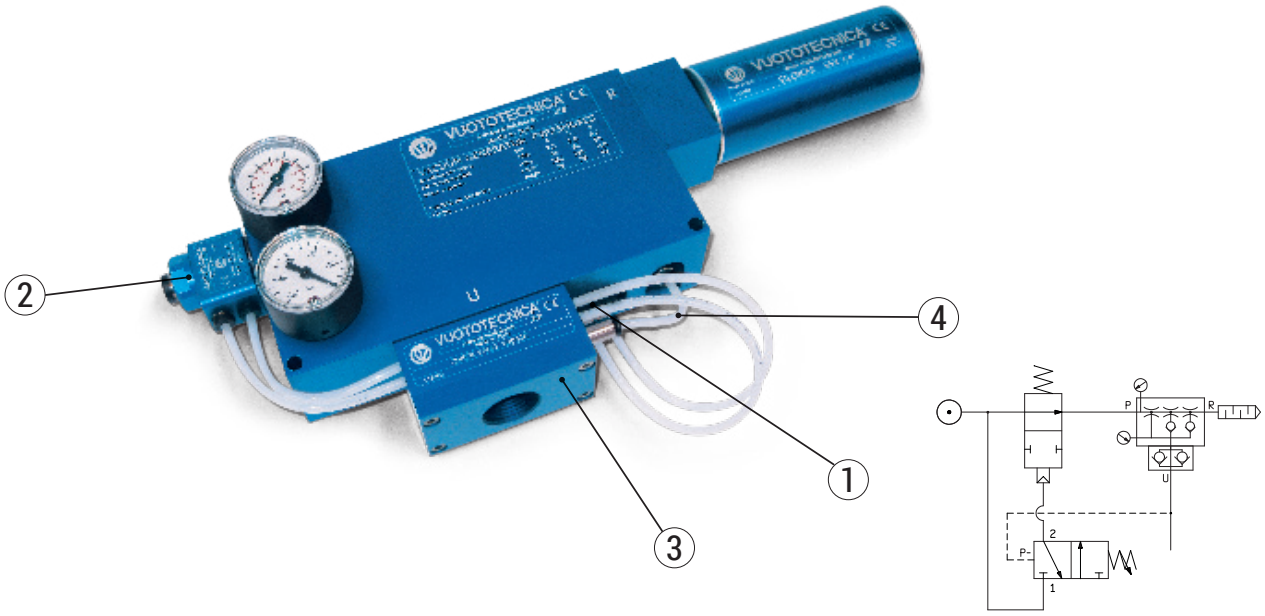
Evacuation rates (ms/l = s/m³) at different levels of vacuums (-KPa) at optimal supply pressure



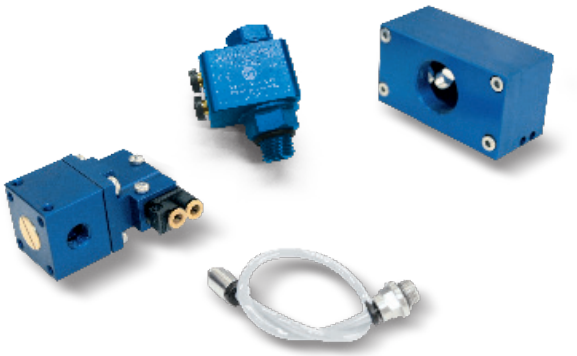


Generator item	Supp. press. bar	Air consumption Nl/s	Evacuation rates (ms/l= s/m³) at different levels of vacuums (-KPa) at optimal supply pressure									Max vacuum
			10	20	30	40	50	60	70	80	85	-KPa
PVP 60 MDX	6.0	8.2	3.5	8.8	19.3	46.4	83.0	127.0	211.0	365.0	1343	90
PVP 75 MDX	6.0	9.8	3.1	7.8	17.2	41.4	74.2	113.5	188.4	326.0	1200	90
PVP 60 MDXLP	3.0	11.0	6.6	16.8	34.0	68.0	120.3	190.0	285.0	570.0	2098	88
PVP 75 MDXLP	3.0	13.2	5.7	14.5	29.2	58.4	103.4	163.4	245.0	490.3	1805	88

ACCESSORIES FOR VACUUM GENERATORS
PVP 25 MDX / MDXLP ÷ PVP 75 MDX / MDXLP



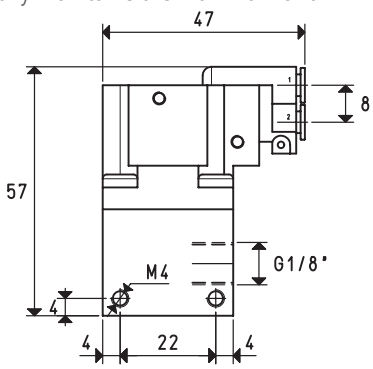
COMPLETE KIT FOR ENERGY SAVING DEVICE ES

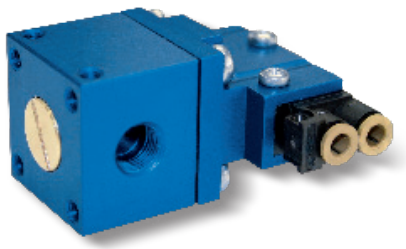


Item	For generator item	Weight g
ES 01	PVP 25 ÷ 50 MDX / MDXLP	475
ES 02	PVP 60 ÷ 75 MDX / MDXLP	998

① - MINI PNEUMATIC VACUUM SWITCH

The vacuum switch has the task of removing a pneumatic signal when a specific adjustable level of vacuum is reached. The pressure differential existing between the set maximum value and that of restoring the signal at rest is not adjustable and is equal to about 100 mbar.
The pneumatic vacuum switch, installed on the vacuum generators PVP 25 - 75 MDX / MDXLP acting on the coaxial shutter supply valve automatically maintains the maximum and minimum level of vacuum within the differential value.





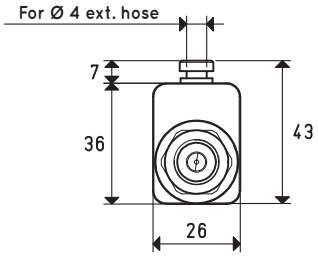
Item	For generator item	Sealing kit item	Weight g
12 01 30 X	PVP 25 ÷ 75 MDX / MDXLP	00 KIT 12 01 30	104

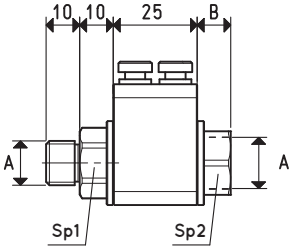
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

Adapters for GAS - NPT threading available on page 1.134

② - COAXIAL SHUTTER SERVO-CONTROLLED PNEUMATIC VALVES

These coaxial shutter valves, pneumatically driven by a vacuum switch or an alternative source, are able to intercept the compressed air supply to the vacuum generators, with pressures between 1.5 and 7 bar. They must be chosen based on the generator power supply connection and the required air quantity.

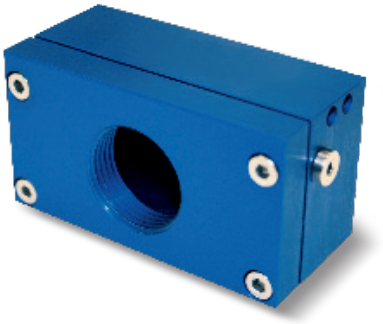


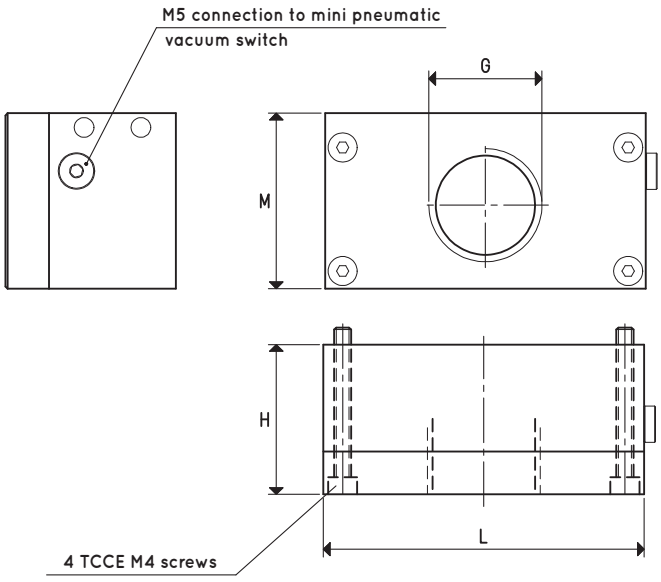


Item	A Ø	B	Sp1	Sp2	For generator item	Sealing kit item	Weight g
07 01 71	G 1/4"	10	19	19	PVP 25 ÷ 50 MDX / MDXLP	00 KIT 07 01 71	72
07 02 71	G 3/8"	15	19	19	PVP 60 ÷ 75 MDX / MDXLP	00 KIT 07 02 71	70

③ - MEMBRANE CHECK VALVE

A check valve specially designed to adapt to vacuum generators PVP 25 - 75 MDX / MDXLP.
The originality of this valve, besides its shape, consists in its membrane seal component, which is able to guarantee very low pressure drops, rapid intervention and perfect sealing.

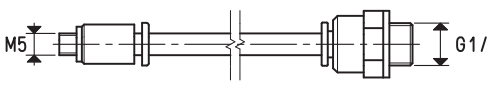




Item	G Ø	H	L	M	For generator item	Sealing kit item	Weight g
10 04 20	G3/4"	35	75	41	PVP 25 ÷ 50 MDX / MDXLP	00 KIT 10 04 20	165
10 05 20	G1"	48	113	58	PVP 60 ÷ 75 MDX / MDXLP	00 KIT 10 05 20	458

④ - FLEXIBLE HOSE KIT WITH FITTINGS

This flexible hose kit is used to connect the mini vacuum switch to the coaxial shutter supply valve and the membrane check valve. The appropriate quick couplings are already assembled at the ends of the tubes, to be screwed to the valve and vacuum switch connections.



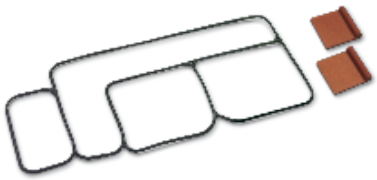
Item	For generator item	Weight g
00 15 308	PVP 25 ÷ 75 MDX / MDXLP	16

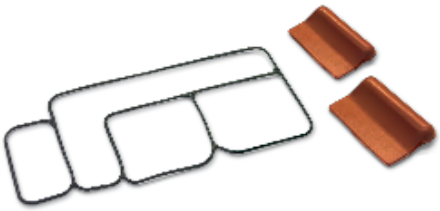
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

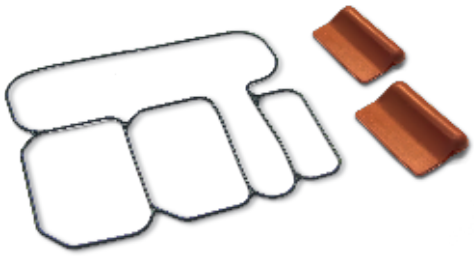
Adapters for GAS - NPT threading available on page 1.134

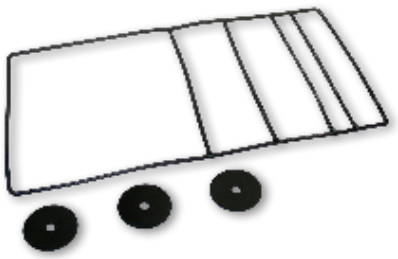
Sealing kit and reed valves

Item	By generators item
00 KIT PVP 12 MX	PVP 12 MX / MXLP
00 KIT PVP 25 MX	PVP 25 MX / MXLP
00 KIT PVP 25 MDX	PVP 25 MDX / MDXLP
00 KIT PVP 35 MDX	PVP 35 MDX / MDXLP
00 KIT PVP 50 MDX	PVP 50 MDX / MDXLP
00 KIT PVP 60 MDX	PVP 60 MDX / MDXLP
00 KIT PVP 75 MDX	PVP 55 MDX / MDXLP
00 KIT PVP 40 M	PVP 40 M / MLP
00 KIT PVP 70 M	PVP 70 M / MLP
00 KIT PVP 100 M	PVP 100 M / MLP
00 KIT PVP 140 M	PVP 140 M / MLP
00 KIT PVP 170 M	PVP 170 M / MLP
00 KIT PVP 200 M	PVP 200 M / MLP
00 KIT PVP 250 M	PVP 250 M / MLP
00 KIT PVP 300 M	PVP 300 M / MLP









Sound absorbing material on the exhaust

Item	By generators item	Quantity
00 15 112	PVP 12 MX / MXLP	1 piece
00 15 113	PVP 25 MX / MXLP	1 piece
00 15 110	PVP 40 M / MLP	1 piece
	PVP 70 M / MLP	1 piece
	PVP 100 M / MLP	1 piece
	PVP 140 M / MLP	1 piece
	PVP 170 M / MLP	1 piece
	PVP 200 M / MLP	1 piece
	PVP 250 M / MLP	1 piece
	PVP 300 M / MLP	1 piece

Sound absorbing material on ejectors

Item	By generators item	Quantity
00 15 111	PVP 40 M / MLP	1 piece
	PVP 70 M / MLP	1 piece
	PVP 100 M / MLP	1 piece
	PVP 140 M / MLP	2 pieces
	PVP 170 M / MLP	2 pieces
	PVP 200 M / MLP	2 pieces
	PVP 250 M / MLP	3 pieces
	PVP 300 M / MLP	3 pieces

Vacuum gauge Ø 40 mm with 1/8” coaxial gas coupler

Item	By generators item
09 03 15	All

Pressure gauge Ø 40 mm with 1/8” coaxial gas coupler

Item	bar	By generators item
09 03 25	1 ÷ 10	All

Exhaust silencers SSX

Item	By generators item
SSX 1/4”	M3 SSX
SSX 3/8”	M7 SSX - M10 S