

ELECTRICAL VACUUM EJECTOR - MINI

Series VE41

Cat No VE41 - 01 - 01 - A

ELECTRICAL VACUUM EJECTOR - MINI (NOZZLE DIAMETER - Ø1, 1.2 mm)

Features

- ☐ Maximized suction power in the smallest space
- ☐ Robust ejector with a low interference contour
- ☐ Center air supply and independent vacuum circuits allow pneumatic interlocking with up to 16 ejectors



Application

- ☐ Electrical vacuum ejector - Mini for handling airtight workpieces, such as display glass, plastic parts, printed-circuit boards (PCB), electronic parts or batteries
- ☐ For use in robotic handling applications and on linear axes as close to the suction cups as possible

Technical Specifications

Model		VE41 - 3 - 10	VE41 - 3 - 12
Medium		Compressed air	
Working pressure range	(bar)	3.5 to 6	
Ambient temperature	(°C)	0 to +50	
Nozzle diameter	(mm)	1	1.2
Degree of evacuation	(%)	87	92
Suction rate (maximum)	(lts/min)	28	30
Air consumption suction *	(lts/min)	45	51
Maximum air consumption blow off	(lts/min)	10	10
Sound level free *	(dB(A))	71	76
Sound level suction	(dB(A))	72	75
Recommended external tube diameter Compressed air #	(mm)	6	6
Recommended external tube diameter Vacuum #	(mm)	6	6
Supply voltage (DC)	(V)	24	
Weight	(g)	70	

* - At optimal operating pressure (4 bar)

- For maximum length 2 m

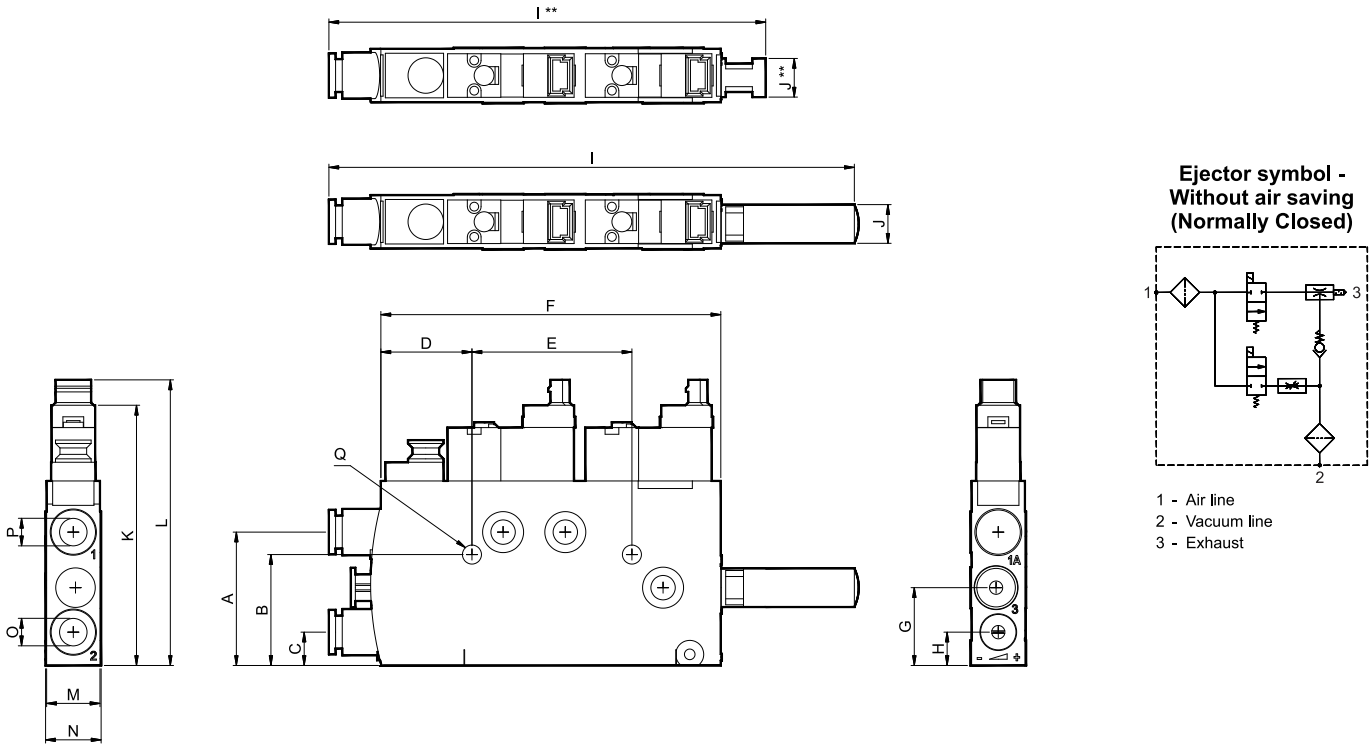
Caution

1. Do not extract harmful media such as dust, oil, mists, vapors, aerosols etc
2. Do not extract aggressive gases or media such as acids, acid fumes, bases, biocides, disinfectants or detergents
3. Do not extract liquids or bulk materials, e.g. Granulates

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Basic dimensions

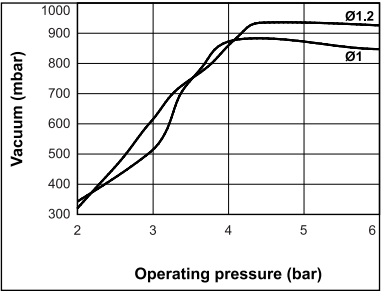


Model	A	B	C	D	E	F	G	H	I
VE41-3-10	30	24.95	7.5	20.5	36	76.5	17.5	7.5	98.3 **
VE41-3-12									120.5

Model	J	K	L	M	N	O	P	Q
VE41-3-10	9 **	41.5	64.2	12	12.5	6.2	6.2	4.3
VE41-3-12	10.5							

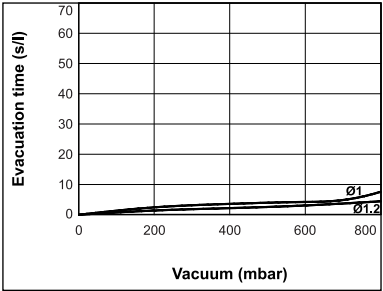
Performance Data

Ø - Nozzle diameter



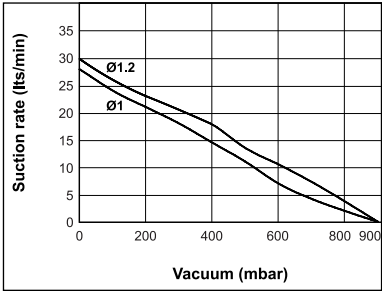
Achievable vacuum at various operating pressures (mbar)

Ø - Nozzle diameter



Evacuation times for various vacuum ranges (s/l)

Ø - Nozzle diameter



Suction capacity at various degrees of evacuation (lts/min)

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Achievable vacuum at various operating pressures (mbar)

Model		Pressure (bar)								
		2	2.5	3	3.5	4	4.5	5	5.5	6
VE41-3-10	Vacuum (mbar)	350	416	512	725	866	880	870	860	850
VE41-3-12		330	460	610	740	850	922	930	927	925

Evacuation times for various vacuum ranges (s/l)

Model		Vacuum (mbar)								
		0	100	200	300	400	500	600	700	800
VE41-3-10	Evacuation Time (s/l)	0	0.2	0.4	0.7	1	1.4	2.3	4	8
VE41-3-12		0	0.18	0.38	0.6	0.9	1.1	2	3.1	4.4

Suction capacity at various degrees of evacuation (lts/min)

Model		Vacuum (mbar)									
		0	100	200	300	400	500	600	700	800	900
VE41-3-10	Suction rate (lts/min)	28	24	21	18	14.5	11	7	4.2	2	0
VE41-3-12		30	26	23	20.5	17.8	13.5	10.5	7.3	3.7	0

How to order

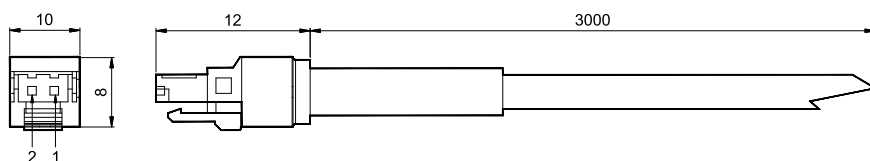
VE41	—	3	—	10	—	06	—	06	—	JC	
		Control valve		Nozzle diameter		Airline OD		Vacuum line OD		Connector type	
		3	Normally Closed	10	1 mm	06	6 mm	06	6 mm	JC	JPC connector
				12	1.2 mm						

Ordering example:

Ordering no. for Electrical vacuum ejector - mini Normally Closed type, 1 mm Nozzle diameter, Air line OD - 6 mm, Vacuum line OD - 6 mm with JPC connector: **VE41-3-10-0606-JC**

Accessories: JPC Connector

Ordering no.: **AC100-R12S-PUR-3M**



Pin number	Corresponding wires	Function
1	Brown	24V power supply
2	White	0V power supply