

COMPACT VACUUM EJECTOR - MINI

Series VE51

Cat No VE51 - 01 - 01 - A

COMPACT 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
- ☐ The vacuum parameters on the LED display are very easy to read



Application

- ☐ Compact 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	VE51 - 3 - 10		VE51 - 3 - 12	
	VE51 - 4 - 10		VE51 - 4 - 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

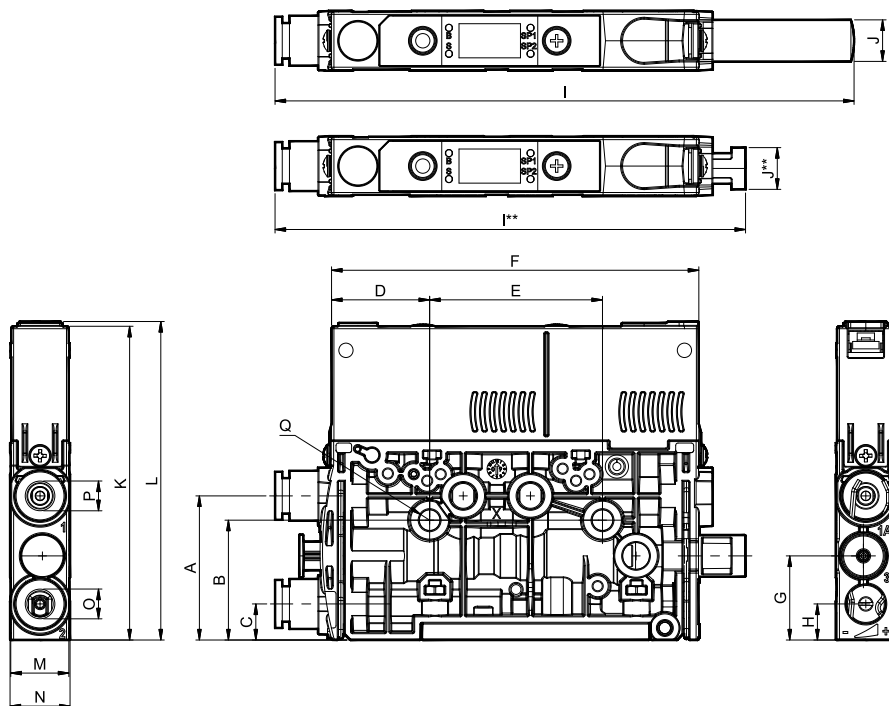
1. Do not extract harmful media such as dust, oil, mists, vapors, aerosols etc
2. Do not extract aggressive gases or media such as acids, acid fumes, bases, biocides, disinfectants or detergents
3. Do not extract liquids or bulk materials, e.g. Granulates

COMPACT VACUUM EJECTOR - MINI

Series VE51

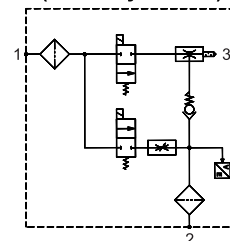
Cat No VE51 - 01 - 01 - A

Basic dimensions

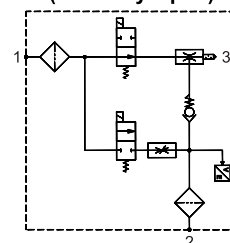


Ejector symbol

With air saving function
(Normally Closed)



With air saving function
(Normally Open)



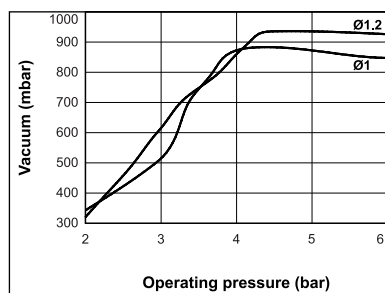
1 - Air line
2 - Vacuum line
3 - Exhaust

Model	A	B	C	D	E	F	G	H	I
VE51-3-10	30	24.95	7.5	20.5	36	76.5	17.5	7.5	98.3 **
VE51-4-10									120.5
VE51-3-12									
VE51-4-12									

Model	J	K	L	M	N	O	P	Q
VE51-3-10	9 **	65,3	73.9	12	12.5	6.2	6,2	4.3
VE51-4-10								
VE51-3-12	10.5							
VE51-4-12								

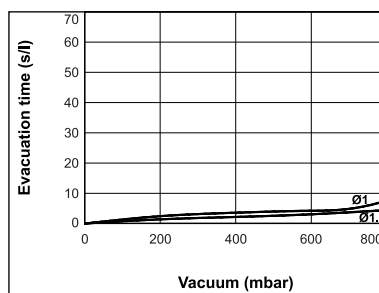
Performance Data

Ø - Nozzle diameter



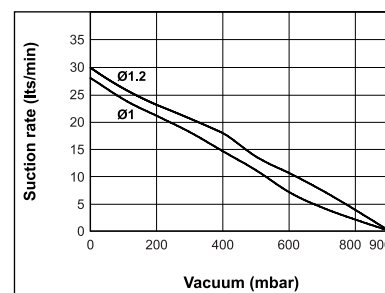
Achievable vacuum at various operating pressures (mbar)

Ø - Nozzle diameter



Evacuation times for various vacuum ranges (s/l)

Ø - Nozzle diameter



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

COMPACT VACUUM EJECTOR - MINI

Series VE51

Cat No VE51 - 01 - 01 - A

Achievable vacuum at various operating pressures (mbar)

Model		Pressure (bar)								
		2	2.5	3	3.5	4	4.5	5	5.5	6
VE51-3-10	Vacuum (mbar)	350	416	512	725	866	880	870	860	850
VE51-4-10										
VE51-3-12		330	460	610	740	850	922	930	927	925
VE51-4-12										

Evacuation times for various vacuum ranges (s/l)

Model		Vacuum (mbar)								
		0	100	200	300	400	500	600	700	800
VE51-3-10	Evacuation Time (s/l)	0	0.2	0.4	0.7	1	1.4	2.3	4	8
VE51-4-10										
VE51-3-12		0	0.18	0.38	0.6	0.9	1.1	2	3.1	4.4
VE51-4-12										

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

Model		Vacuum (mbar)									
		0	100	200	300	400	500	600	700	800	900
VE51-3-10	Suction rate (lts/min)	28	24	21	18	14.5	11	7	4.2	2	0
VE51-4-10											
VE51-3-12		30	26	23	20.5	17.8	13.5	10.5	7.3	3.7	0
VE51-4-12											

How to order

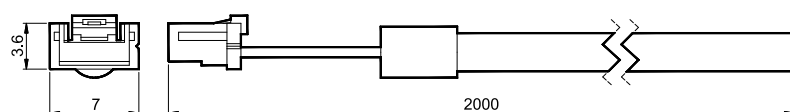
VE51	—	4	—	12	—	06	—	06	—	JC	
		Control valve		Nozzle diameter		Airline OD		Vacuum line OD		Connector type	
		3	Normally Closed	10	1 mm	06	6 mm	06	6 mm	JC	JPC connector
		4	Normally Open	12	1.2 mm						

Ordering example:

Ordering no. for Compact vacuum ejector - Mini Normally Open type, 1.2 mm Nozzle diameter, Air line OD - 6 mm, Vacuum line OD - 6 mm, with JPC connector: **VE51-4-12-0606-JC**

Accessories: JPC Connector

Ordering no. - **AC100-R25S-PVC-2M**



JPC Socket	Pin number	Corresponding wires	Function
	1	White	24V power supply
	2	Brown	Suction signal input
	3	Green	0V power supply
	4	Yellow	Parts control output
	5	Gray	Blow off signal input

Subject to change