

BASIC ELECTRICAL VACUUM EJECTOR

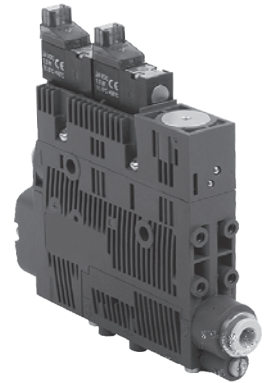
Series VE21

Cat No VE21 - 01 - 01 - A

BASIC ELECTRICAL VACUUM EJECTOR - NOZZLE DIAMETER - (Ø1, 1.5 mm)

Features

- ☐ Eco-nozzle technology allows a high suction rate with minimized compressed air consumption
- ☐ Compact, extremely robust unit for mounting directly on the handling system
- ☐ Push-in connections save additional screw connections
- ☐ Suitable for panel mounting and DIN rail mounting



Application

- ☐ Handling of airtight and slightly porous workpieces
- ☐ Generation of vacuums in automated systems
- ☐ Use in robot handling and on linear axes
- ☐ For systems that require highly dynamic gripping of workpieces, where space is limited

Technical Specifications

Model	VE21 - 3 - 10	VE21 - 3 - 15
Medium	Compressed air	
Working pressure range (bar)	3 to 6	
Ambient temperature (°C)	0 to +50	
Nozzle diameter (mm)	1	1.5
Degree of evacuation (%)	85	85
Suction rate (maximum) (lts/min)	36	65.5
Air consumption suction * (lts/min)	46	98.5
Air consumption blow off (m³/h)	7.2	7.2
Maximum air consumption blow off (lts/min)	120	120
Sound level suction (dB(A))	61	65
Sound level free (dB(A))	75	77
Recommended external hose diameter Compressed air # (mm)	6	6
Recommended external hose diameter Vacuum # (mm)	6	10
Supply voltage (DC) (V)	24	
Weight (g)	170	

* - At optimal operating pressure (4 bar)

- For maximum length 2 m

Caution

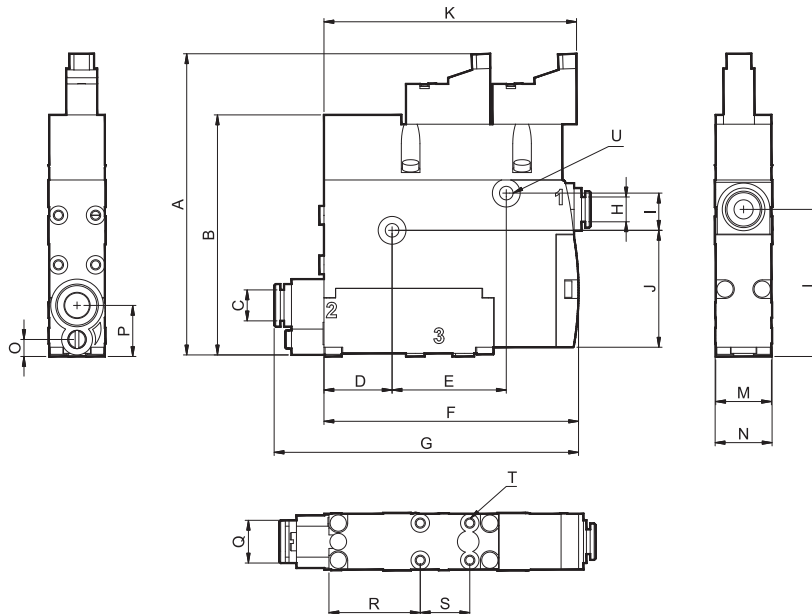
1. Do not extract harmful media such as dust, oil, mists, vapors, aerosols etc.
2. Do not extract aggressive gases or media such as acids, acid fumes, bases, biocides, disinfectants or detergents.
3. Do not extract liquids or bulk materials, e.g. Granulates.

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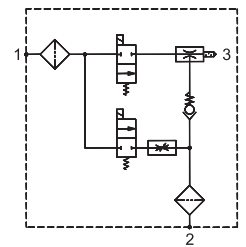
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Basic dimensions



**Ejector symbol -
Without air saving
(Normally Closed)**



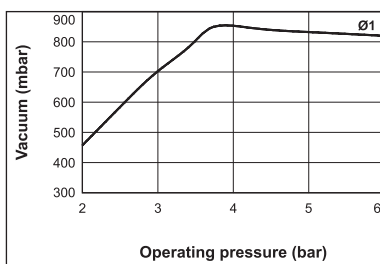
1 - Air line
2 - Vacuum line
3 - Exhaust

Model	A	B	C	D	E	F	G	H	I	J	K
VE21-3-10	97	77.5	6	22	36.9	87	102.5	6	12	40.8	81.4
VE21-3-15	97	77.5	8	22	36.9	87	102.5	6	12	40.8	81.4

Model	L	M	N	O	P	Q	R	S	T	U
VE21-3-10	47.5	18	18.6	5.5	16.5	12	29.5	16	2.6	4.4
VE21-3-15	47.5	18	18.6	5.5	16.5	12	29.5	16	2.6	4.4

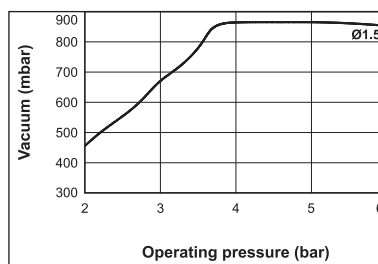
Performance Data

Ø - Nozzle diameter



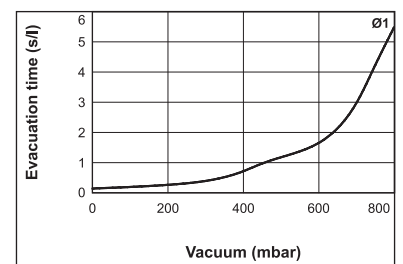
**Achievable vacuum at various
operating pressures (mbar)**

Ø - Nozzle diameter



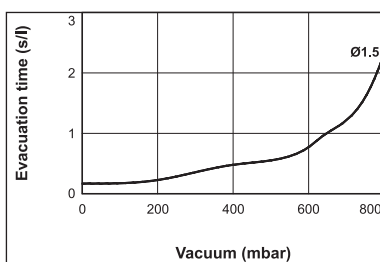
**Achievable vacuum at various
operating pressures (mbar)**

Ø - Nozzle diameter



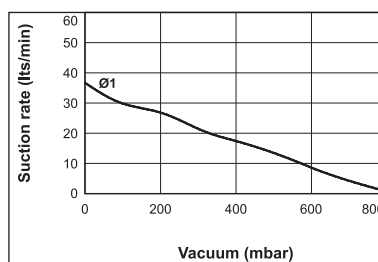
**Evacuation times for various
vacuum ranges (s/l)**

Ø - Nozzle diameter



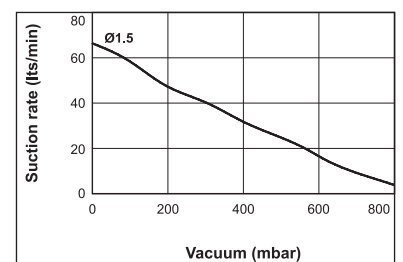
**Evacuation times for various
vacuum ranges (s/l)**

Ø - Nozzle diameter



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

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	3	4	5	6
VE21-3-10	Vacuum (mbar)	470	700	850	830	815
VE21-3-15		450	660	860	865	850

Evacuation times for various vacuum ranges (s/l)

Model		Vacuum (mbar)								
		0	100	200	300	400	500	600	700	800
VE21-3-10	Evacuation Time (s/l)	0.05	0.15	0.3	0.5	0.8	1.2	1.75	2.8	5.5
VE21-3-15		0.05	0.07	0.15	0.25	0.4	0.6	0.9	1.3	2.3

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

Model		Vacuum (mbar)								
		0	100	200	300	400	500	600	700	800
VE21-3-10	Suction rate (lts/min)	36.1	29.5	25.7	20.8	16.9	13	8.1	3.4	0.5
VE21-3-15		65.5	57.1	47.4	39.3	32	25.3	17	8.8	1.5

How to order

VE21	—	3	—	10	—	06	—	06	—	JC	
		Control valve		Nozzle diameter		Airline OD		Vacuum line OD		Connector type	
		3	Normally Closed	10	1 mm	1	06	6 mm	06	6 mm	JC
				15	1.5 mm	2		08	8 mm		JPC connector

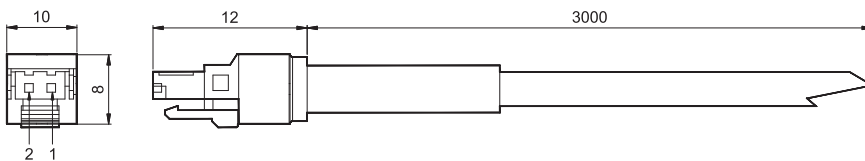
Note: Sl. No. 1 applicable for vacuum line (OD) is 06.
Sl. No. 2 applicable for vacuum line (OD) is 08.

Ordering example:

Ordering no. for Basic electrical vacuum ejector Normally Closed type, 1 mm - Nozzle diameter, Air line (OD) - 6mm, Vacuum line (OD) - 6mm with JPC Connector : **VE21-3-10-0606-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