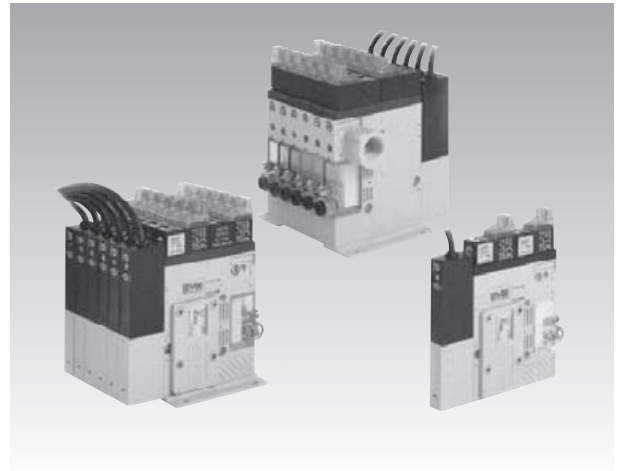


## Mini Keyboard Pump

- Max. vacuum level** : VKX pump -92kpa (-690mmHg)  
: VKM pump -85kpa (-637.5mmHg)
- Max. flow rate** : VKX pump 23NI/m  
VKM pump 26NI/m
- Supply air pressure** : 3-6bar, Max. 7bar
- Supply air type** : Dry compressed air
- Working temperature** : -20°C ~ +80°C
- Noise level** : 50 - 65 dBA

### Main advantages

- High efficiency Mini vacuum pump (Multi-Nozzle type).
- Available of individual control.
- Long life time and Low noise level.
- Easy to install and Compact size (10mm).
- Lightweight.
- Built-in check valve.
- Integrated Vacuum Pump, Air supply & vacuum release control valve, Vacuum Switch, & Filter, Blowing flow control valve and silencer in a body.



## Order No.

**VKM5 - M6 - A 4 N V**  
 ①                    ② ③                    ④                    ⑤                    ⑥                    ⑦

### ① Model-Vacuum Flow

VKX5	- 23NI/min
• VKM5	- 26NI/min

### ② Body type

S	- single unit
• M	- manifold unit
E	- manifold unit with central exhaust unit

### ③ Vacuum Stack

1-1 Stack	• 6-6 Stack
2-2 Stack	7-7 Stack
3-3 Stack	8-8 Stack
4-4 Stack	9-9 Stack
5-5 Stack	10-10 Stack

### ④ Valves

	Air Supply Control Valve	Vacuum Release Control Valve	Vacuum Switch
• A	⊙ (N.C. : Normal Closed)	⊙ (N.C. : Normal Closed)	⊙
B	⊙ (N.O. : Normal open)	⊙ (N.C. : Normal Closed)	⊙
C	⊙ (N.C. : Normal Closed)	⊙ (N.C. : Normal Closed)	
D	⊙ (N.O. : Normal open)	⊙ (N.C. : Normal Closed)	
E	⊙ (N.C. : Normal Closed)		⊙
F	⊙ (N.O. : Normal open)		⊙
G	⊙ (N.C. : Normal Closed)		
H	⊙ (N.O. : Normal open)		
I		⊙ (N.C. : Normal Closed)	⊙
J			⊙
K		⊙ (N.C. : Normal Closed)	

※ Remark : A...(P)

→ Output type : PNP open collector

Only DC24V is available for valve  
Connector type with 0.3m lead wire & lamp

### ⑤ Vacuum port

- 4 - Ø4 (O.D: standard)
- 6 - Ø6 (O.D)

### ⑥ Non return valve

- no mark - standard
- N - non return valve

### ⑦ Sealing

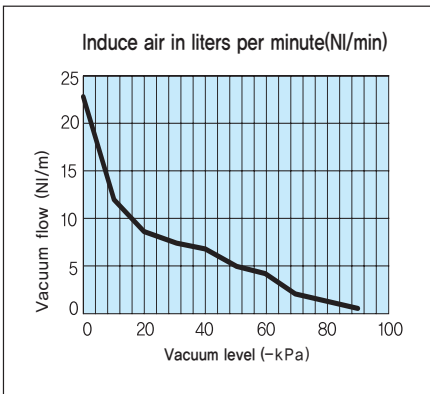
- no mark - standard (NBR)
- V - Viton®
- E - EPDM

### Characteristics

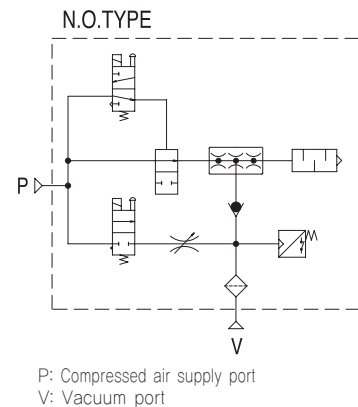
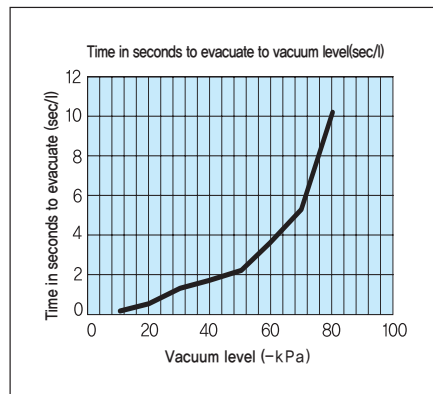
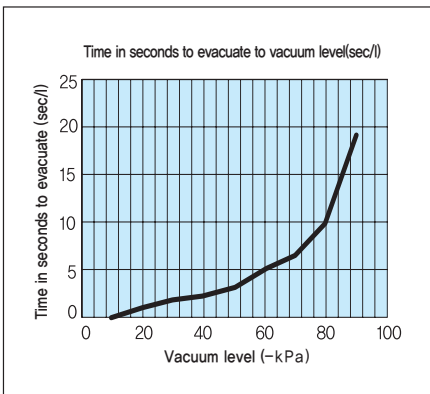
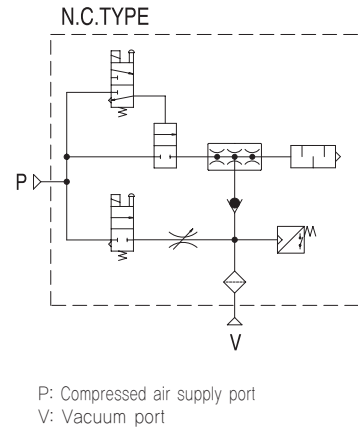
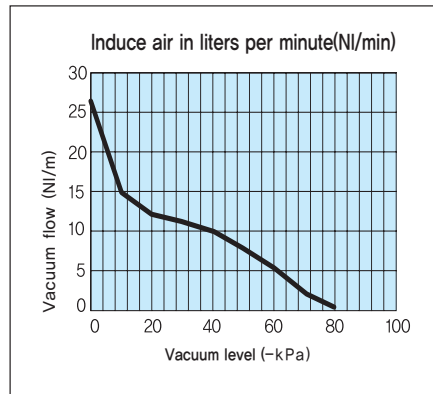
Model	max. vacuum -kPa(-mmHg)	Max. vacuum flow (NI/m)/each stack	air consumption (NI/m)/ each stack	noise level (dBA)	weight(g) /each stack
VKX5	92 (690)	23	13~22	50~65	96
VKM5	85 (637.5)	26	12~21	50~65	96

※ Remark : Manifold unit type weight = 86g X N + 22g (N : stack)

#### VKX5



#### VKM5



### Induce air in liters per minute (NI/m)

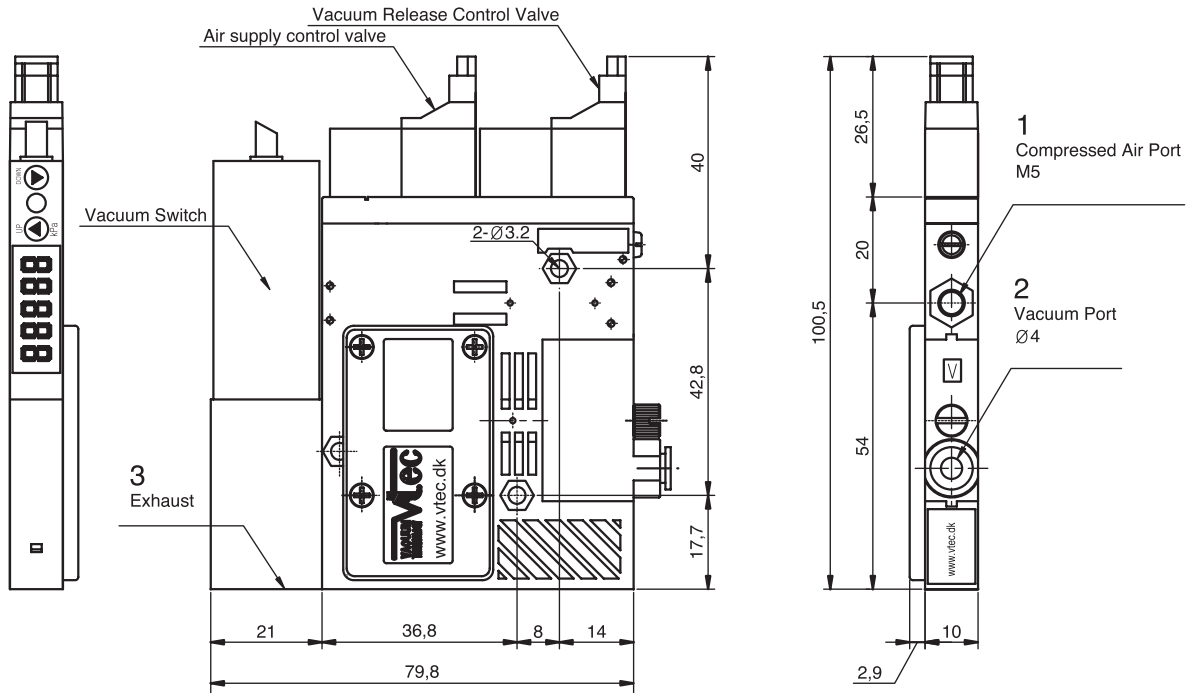
Model	-mmHg	0	75	150	225	300	375	450	525	600	675
	-Kpa	0	10	20	30	40	50	60	70	80	90
VKX5		23	12	8	7	6	5	4	2.7	1.2	0.45
VKM5		26	15	12	11	10	8	5.5	2.8	0.7	

### Time in seconds to evacuate to vacuum level (sec/l)

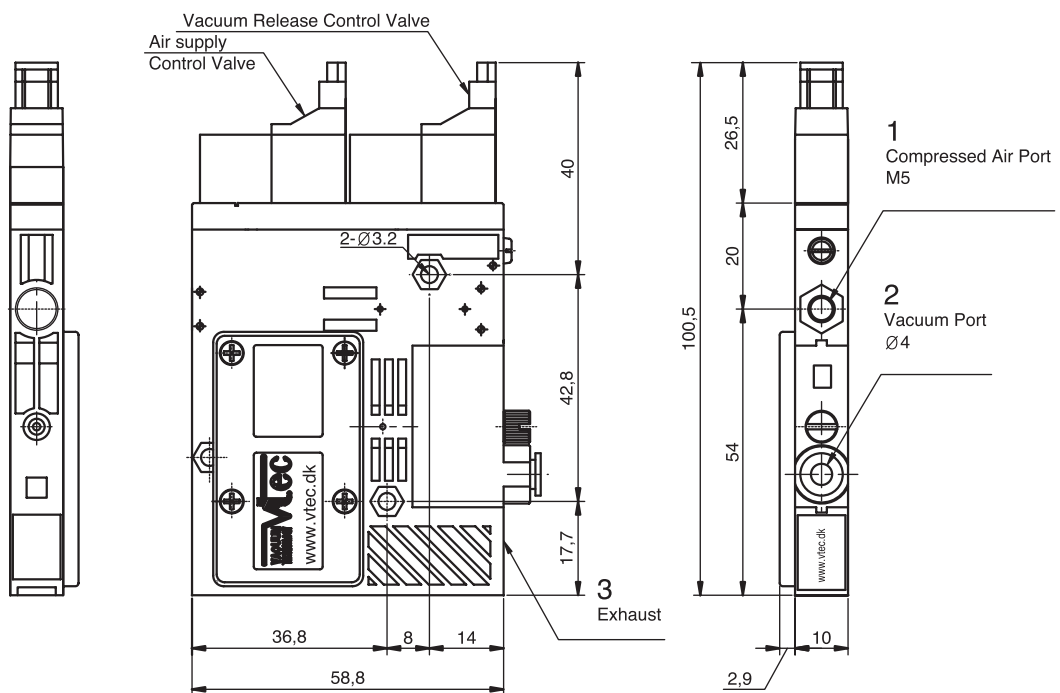
Model	-mmHg	75	150	225	300	375	450	525	600	675
	-Kpa	10	20	30	40	50	60	70	80	90
VKX5		0.26	0.80	1.52	2.4	3.38	4.91	6.89	10.16	19
VKM5		0.22	0.56	1.18	1.58	2.36	3.44	5.27	10.22	

### Single unit

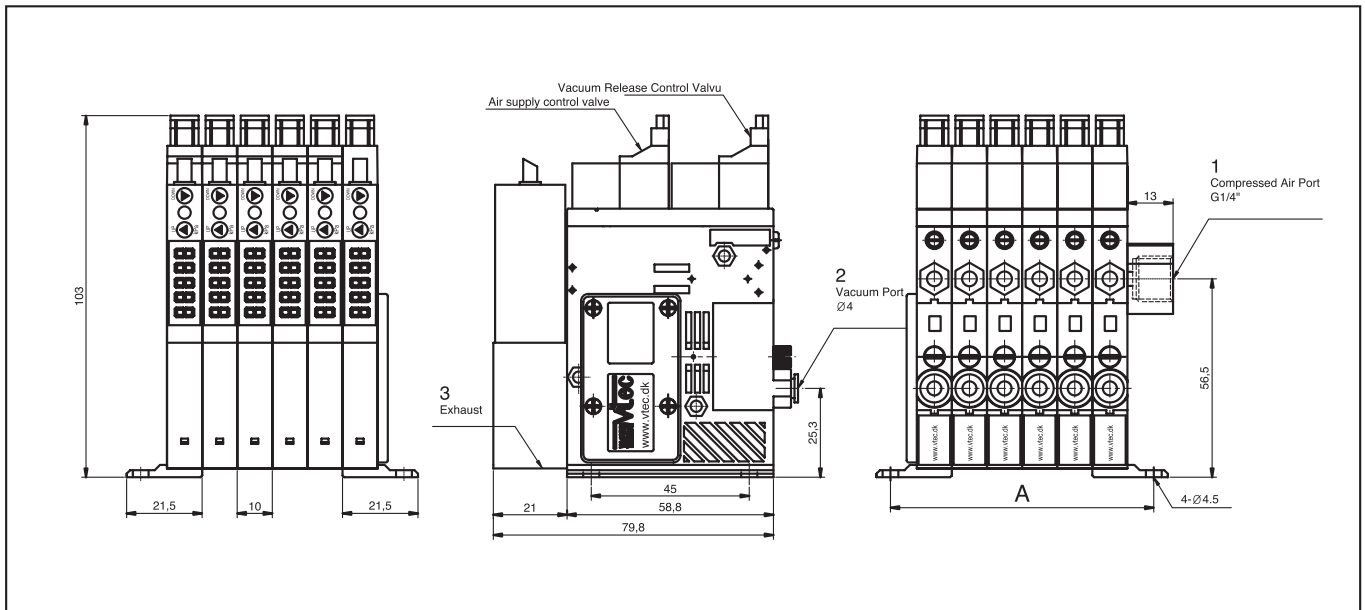
#### Single Unit (A,B - Type)



#### Single Unit (C,D - Type)

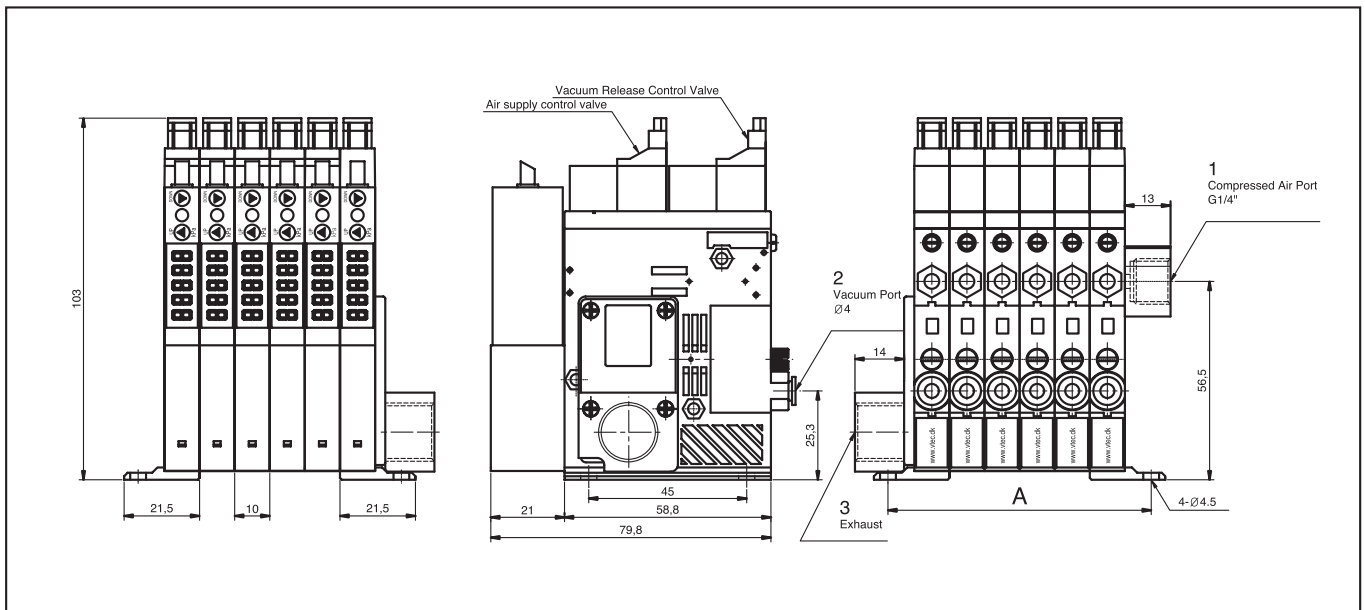


### Manifold unit



VACUUM PUMP

### Manifold unit with central exhaust unit



Stack	A (mm)
2stack	35
3stack	45
4stack	55
5stack	65
6stack	75
7stack	85
8stack	95
9stack	105
10stack	115