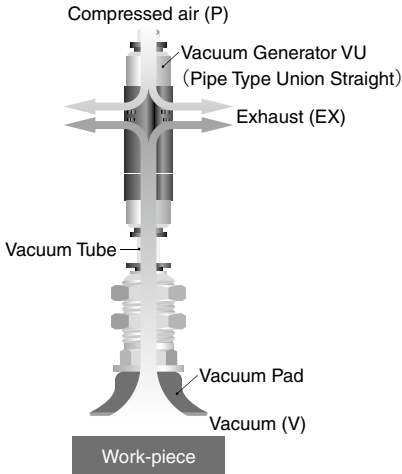


Vacuum Generators

In-Line Type of Venturi Vacuum Generator VU, VUM, VY



Vacuum Pad Direct Mounting



Air powered venturi vacuum can be used in combination with a vacuum pad to handle materials.

- *VU in line vacuum generator coming with a plastic body is very lightweight and compact.*
- *Nozzle bore selection : $\varnothing 0.5$ and $\varnothing 0.7$ mm*

VUM Type (Super small In-line type)

- *Super small and lightweight vacuum generator*

Outer diameter : 0.33 inches ($\varnothing 8.5$ mm), Weight : Max. 0.3 oz. (7.7g)

- *Nozzle bore selection : $\varnothing 0.3$, $\varnothing 0.4$ and $\varnothing 0.5$ mm*

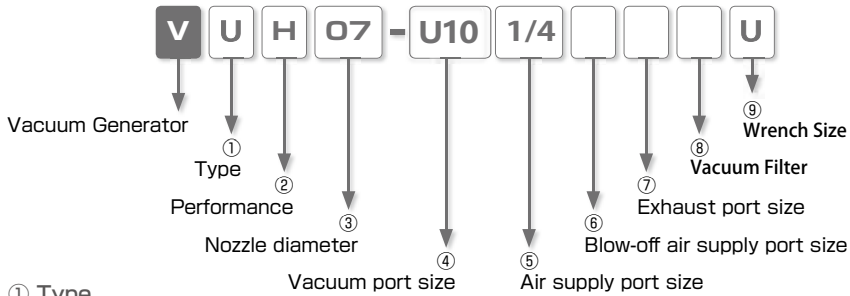
VY Type (With Blow-Off Mechanism)

- *Ejector and Blow-Off Mechanism are integrated.*

VY Type provides a high cost performance, compared to a normal solenoid valve equipped type.

- *Small and lightweight body makes it possible to place on the terminal part of the vacuum piping. High speed cycle of suction and Blow-Off Mechanism is achieved by diffuser spool.*

Model Designation (Example)



① Type

Code	Type	Code	Type	Code	Type
U	Pipe Type	UM	Small-sized Pipe Type	Y	Blow-Off Mechanism Equipped Type

② Performance

Code	Performance	Code	Performance	Code	Performance
H	High-vacuum type (Rated supply pressure : 72.5psi (0.5MPa))	L	Large-flow type (Rated supply pressure : 72.5psi (0.5MPa))	E	High-vacuum at low air pressure supply type (Rated supply pressure : 50psi (0.35MPa))

③ Nozzle bore

■ VU, VUM type

Code	Nozzle bore	H type		L type		E type	
		Vacuum level, Suction flow	Vacuum level, Suction flow	Vacuum level, Suction flow	Vacuum level, Suction flow	Vacuum level, Suction flow	Vacuum level, Suction flow
03	ø0.3mm	-26.8 inHg, 0.07scfm*1 (-90kPa, 2l/min[ANR])	-19.7 inHg, 0.11scfm*1 (-66kPa, 3l/min[ANR])	-26.0 inHg, 0.035scfm*1 (-88kPa, 1l/min[ANR])			
04	ø0.4mm	-26.8 inHg, 0.14scfm*1 (-90kPa, 4l/min[ANR])	-19.7 inHg, 0.25scfm*1 (-66kPa, 7l/min[ANR])	-26.8 inHg, 0.07scfm*1 (-90kPa, 2l/min[ANR])			
05	ø0.5mm	-26.8 inHg, 0.25scfm (-90kPa, 7l/min[ANR])	-19.7 inHg, 0.42scfm (-66kPa, 12l/min[ANR])	-26.8 inHg, 0.11scfm (-90kPa, 3l/min[ANR])			
07	ø0.7mm	-27.2 inHg, 0.44scfm (-92kPa, 12.5l/min[ANR])	-19.7 inHg, 0.78scfm (-66kPa, 22l/min[ANR])	-26.8 inHg, 0.35scfm (-90kPa, 10l/min[ANR])			

※ 1. Nozzle bore ø0.3 and 0.4mm of H, L and E type are only for VUM.

※ 2. Supply pressure of H and L type is 72.5psi (0.5MPa) and that of E type is 80psi (0.35MPa).

■ VY type

Code	Nozzle bore	H type		L type		E type	
		Vacuum level, Suction flow	Vacuum level, Suction flow	Vacuum level, Suction flow	Vacuum level, Suction flow	Vacuum level, Suction flow	Vacuum level, Suction flow
05	ø0.5mm	-26.8 inHg, 0.25scfm (-90kPa, 7l/min[ANR])	-19.7 inHg, 0.42scfm (-66kPa, 12l/min[ANR])	-26.8 inHg, 0.11scfm (-90kPa, 3l/min[ANR])			
07	ø0.7mm	-27.2 inHg, 0.44scfm (-92kPa, 12.5l/min[ANR])	Tube O.D. ø4mm : -19.7 inHg, 0.63scfm Tube O.D. ø6mm : -19.7 inHg, 0.74scfm (Tube O.D. ø4mm : -66kPa, 18l/min[ANR]) (Tube O.D. ø6mm : -66kPa, 21l/min[ANR])	-26.8 inHg, 0.31scfm (-90kPa, 9l/min[ANR])			

④ Vacuum port size

Joint type	Push-In Fitting						Straight thread				Taper pipe thread	
	Code	5/32	1/4	180	3	4	6	U10	M3	M5	M6	N1
Size	ø5/32	ø1/4	ø1.8mm	ø3mm	ø4mm	ø6mm	10-32UNF	M3x0.5	M5x0.8	M6x1	1/8NPT	R1/8
Type	VU	○	○			○	○	○	○	○	○	○
	VUM	○		○	○	○	○	○	○			
	VY					○	○					

⑤ Air supply port size

Joint type	Push-In Fitting				
Code	5/32	1/4	3 or O3	4 or O4	6
Size	ø5/32	ø1/4	ø3mm	ø4mm	ø6mm
Type	VU	○		○	○
	VUM	○	○	○	
	VY			○	○

⑥ Blow-off air supply port size (VY only)

Code	4	6
Tube dia.	ø4mm	ø6mm

⑦ Exhaust port (VU and VY only)

Code	No code	J
Port type	Silencer vent	Tube exhaust

⑧ Vacuum Filter (VY only)

F: with vacuum filter

No Code: No vacuum filter



⑨ Wrench Size

U: inch wrench spec. (NPT or UNF thread)

No Code: metric wrench spec. (metric thread)

● Specification (VU and VUM)

Fluid medium	Air
Operating pressure range	43.5 ~ 101.5psi (0.3 ~ 0.7 MPa)
Rated pressure supply	H, L: 72.5psi (0.5 MPa) / E: 50.8psi (0.35 MPa)
Operating temp. range	32 ~ 140°F (0 ~ 60°C) (No freezing)

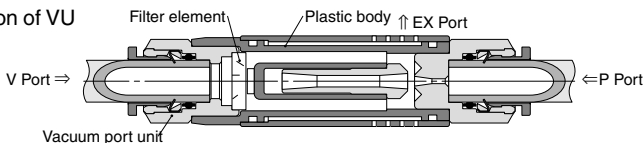
● Specification of Blow-off Mechanism Equipped VY

Fluid medium	Air
Operating pressure range	43.5 ~ 101.5psi (0.3 ~ 0.7 MPa)
Rated pressure supply	H, L: 72.5psi (0.5 MPa) / E: 50psi (0.35 MPa)
Operating temp. range	41 ~ 122°F (5 ~ 50°C)
Lubrication	Not required

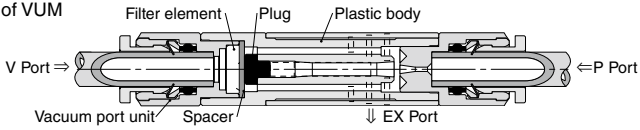
● Specification of Vacuum Filter for VY

Fluid medium	Air
Operating pressure range	-29.5 ~ 0 inHg (-100 ~ 0 kPa)
Filtering capacity	10µm
Operating temp. range	32 ~ 140°F (0 ~ 60°C) (No freezing)
Filter area	Joint size 44 : 0.12in. ² (0.8cm ²)
	Joint size 66 : 0.17in. ² (1.1cm ²)
Material	PVF (Polyvinyl formal)

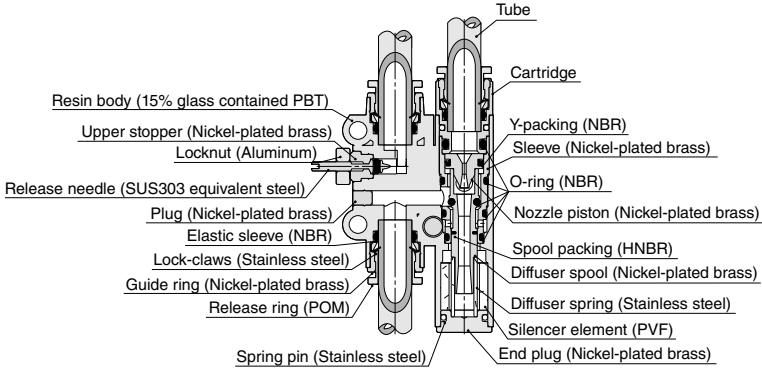
● Construction of VU



● Construction of VUM



■ Construction (Blow-Off Mechanism Equipped Type: VY)



VUM Type meets the demands of low air consumption.

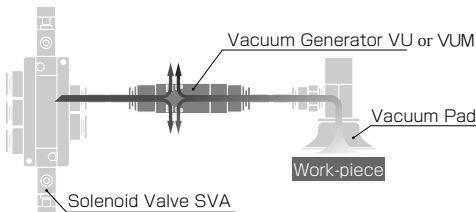
Vacuum characteristics	Nozzle bore ømm	Rated supply pressure psi (MPa)	Vacuum level -in. Hg (-kPa)	Suction flow scfm (ℓ/min[ANR])	Air consumption scfm (ℓ/min[ANR])
H03	0.3	73psi (0.5)	-26.8 inHg (90)	0.07scfm (2)	0.16scfm (4.5)
L03			-19.7 inHg (66)	0.11scfm (3)	
E03		51psi (0.35)	-26.0 inHg (88)	0.035scfm (1)	
H04	0.4	73psi (0.5)	-26.8 inHg (90)	0.14scfm (4)	0.28scfm (8)
L04			-19.7 inHg (66)	0.25scfm (7)	
E04		51psi (0.35)	-26.8 inHg (90)	0.07scfm (2)	
H05	0.5	73psi (0.5)	-26.8 inHg (90)	0.25scfm (7)	0.41scfm (11.5)
L05			-19.7 inHg (66)	0.42scfm (12)	
E05		51psi (0.35)	-26.8 inHg (90)	0.07scfm (3)	

※ The above "Vacuum characteristics" codes mean as follows. "H: High-vacuum type", "L: Large-flow type" and "E: High-vacuum at low air pressure supply type".

● Connectable to small Vacuum pad holder VPMB directly.

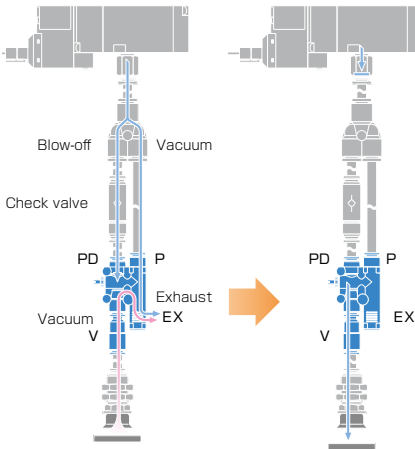
■ Piping example

In-Line piping (VU or VUM) Type



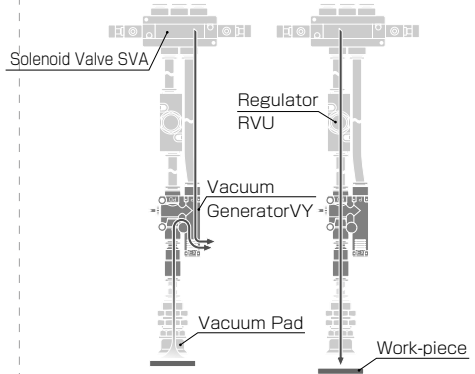
Blow-Off Mechanism Equipped (VY) Type

■ Example 1



Connect P Port and PD Port with Check Valve (Purchase separately). The residual pressure between Check Valve and PD Port turns into a blow-off air. The flow rate of the blow-off air is adjusted by a release needle. Blow-off time can be controlled by the tube length between Check Valve and PD Port.

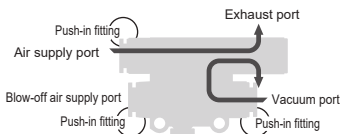
■ Example 2. Usage with Twin 3-way valve (SVA21).



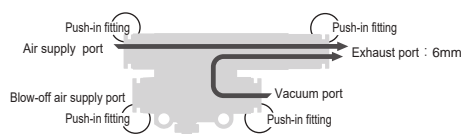
Work-piece can be released instantly by adjusting a blow-off pressure and a flow rate. But it is necessary to pay attention not to blow away the work-piece. The above figure shows an example to arrange the different pressure supplies to vacuum generation side and Blow-Off Mechanism side when a blow-off pressure needs to be controlled low (Pressure to vacuum generation side \geq Pressure to Blow-Off Mechanism side). A blow-off air is adjusted by the release needle. Blow-off time is controlled by the solenoid valve (SVA21 series).

Tubing connection

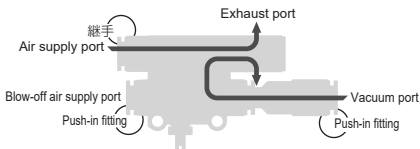
In-Line Blow-Off Mechanism Equipped Type: VY (Nozzle dia. : $\varnothing 0.5\text{mm}$, $\varnothing 0.7\text{mm}$)



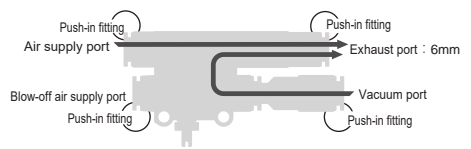
Type	Air supply port	Vacuum port		Blow-off air Supply port
VVV Blow-Off Mechanism (Silencer Vent.)	4mm (5/32")	4mm (5/32")	6mm	$\varnothing 4$ (5/32")
	6mm	●	●	6mm



type	Air supply port	Vacuum port		Blow-off air Supply port
VVV Blow-Off Mechanism (Tubing Exh.)	4mm (5/32")	4mm (5/32")	6mm	$\varnothing 4$ (5/32")
	6mm	●	●	6mm

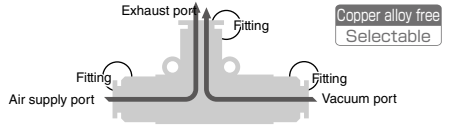
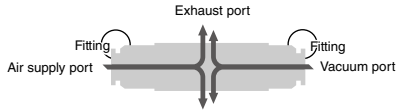


Type	Air supply port	Vacuum port		Blow-off air Supply port
VVV Blow-Off Mechanism (Silencer Vent, Vacuum Filter)	4mm (5/32")	4mm (5/32")	6mm	$\varnothing 4$ (5/32")
	6mm	●	●	6mm



Type	Air supply port	Vacuum port		Blow-off air Supply port
VVV Blow-Off Mechanism (Tubing Exh, Vacuum Filter)	4mm (5/32")	4mm (5/32")	6mm	$\varnothing 4$ (5/32")
	6mm	●	●	6mm

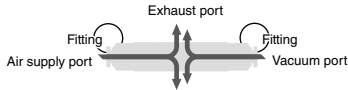
Pipe Type In-Line Union (Nozzle bore: $\varnothing 0.3 / 0.4 / 0.5 / 0.7\text{mm}$)



Copper alloy free
Selectable

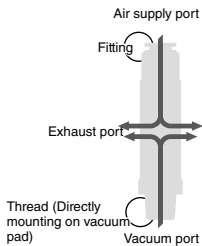
Type	Air supply port	Vacuum port			
		5/32	1/4	4mm	6mm
Pipe Type Union	5/32	●	●		
	1/4	●	●		
Straight (Silencer vent)	4mm			●	●
	6mm			●	●

Type	Air supply port	Vacuum port			
		5/32	1/4	4mm	6mm
Pipe Type Union	5/32	●	●		
	1/4	●	●		
Straight Tube Exhaust	4mm			●	●
	6mm			●	●

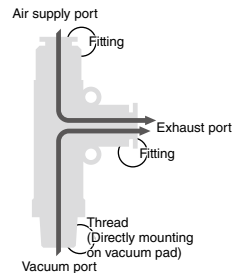


Type	Air supply port	Vacuum port			
		5/32	1.8mm	3mm	4mm
Pipe Type Union Straight(vent)	5/32	●			
	3mm		●	●	●
	4mm		●	●	●

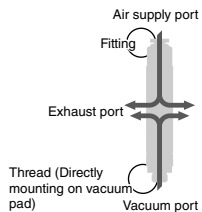
Direct Mounting Type (Nozzle bore: $\varnothing 0.3 / 0.4 / 0.5 / 0.7\text{mm}$)



Type	Vacuum port	Air supply port			
		5/32	1/4	4mm	6mm
Pipe Type Straight (Silencer vent)	10-32UNF	●	●		
	1/8NPT	●	●		
	M5x0.8			●	●
	M6x1			●	●
	R 1/8			●	●



Type	Vacuum port	Air supply port				Exhaust port
		5/32	1/4	4mm	6mm	
Pipe Type Straight (Tube Exhaust)	10-32UNF	●	●			1/4
	1/8NPT	●	●			
	M5x0.8			●	●	6mm
	M6x1			●	●	
	R 1/8			●	●	



Type	Vacuum port	Air supply port		
		5/32	3mm	4mm
Pipe Type Union Straight (Silencer vent)	10-32UNF	●		
	M3x0.5		●	●
	M5x0.8		●	●

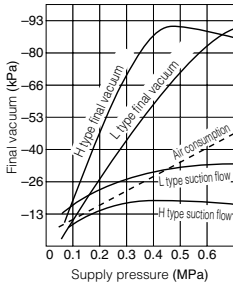
VU Vacuum Generator

Characteristics

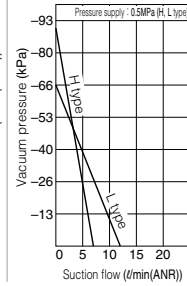
Supply pressure - Final vacuum / Suction Flow / Air Consumption

VUH05, VUL05

Vacuum characteristics

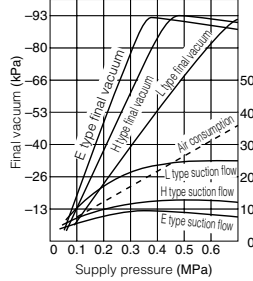


Flow characteristics

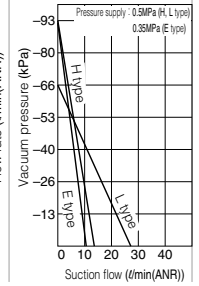


VUH07, VUL07, VUE07

Vacuum characteristics



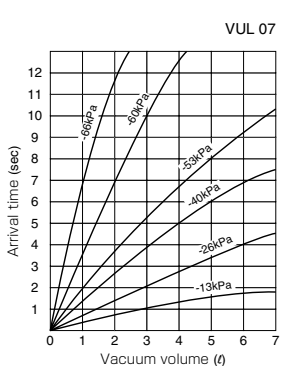
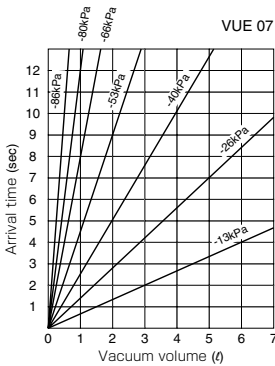
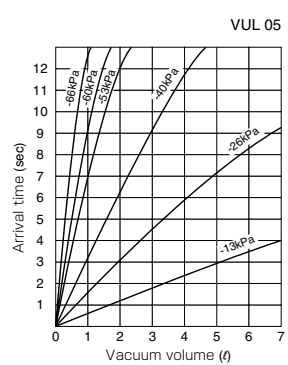
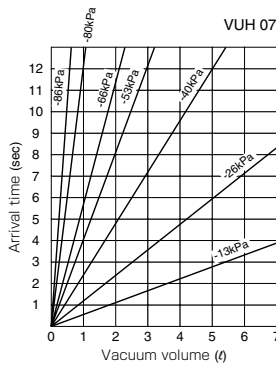
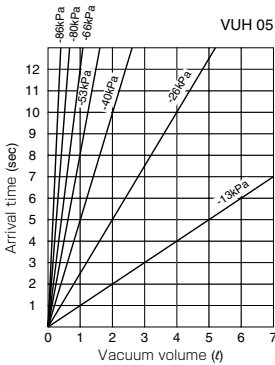
Flow characteristics



Characteristics

Vacuum arrival time (Supply pressure H and L types: 72.5psi (0.5MPa), E type: 43.5 to 72.5psi (0.3 to 0.5MPa))

- ❖ The following graphs is for reference only since the values vary according to the piping arrangement.

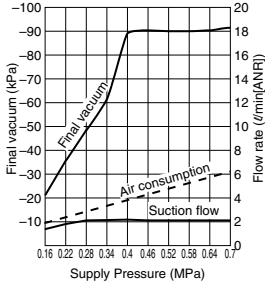


VUM Vacuum Generator

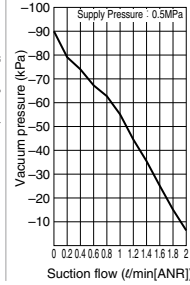
Characteristics

VUMH03

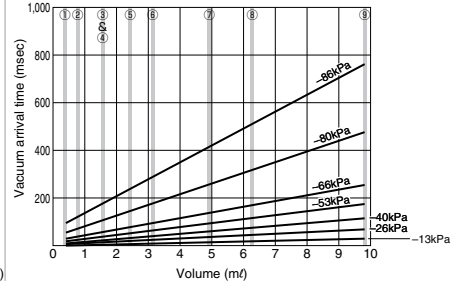
Vacuum characteristics



Flow characteristics

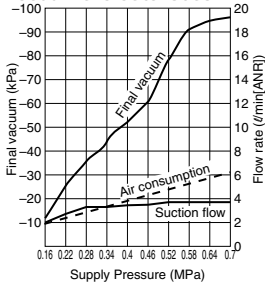


Vacuum arrival time

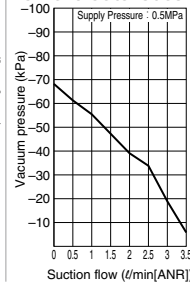


VUML03

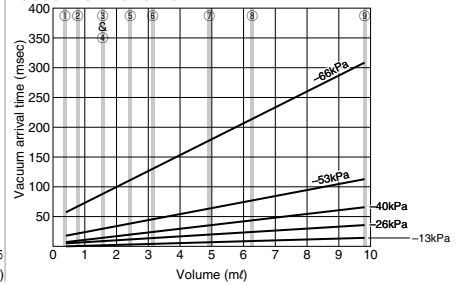
Vacuum characteristics



Flow characteristics

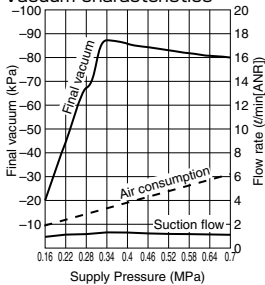


Vacuum arrival time

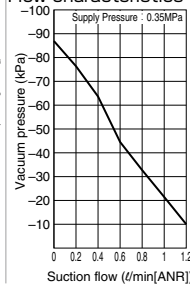


VUME03

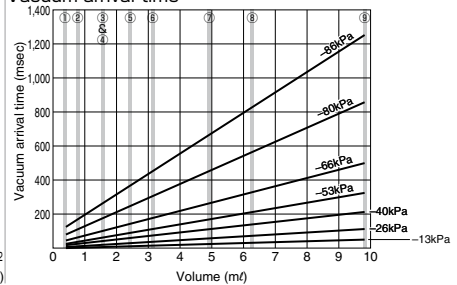
Vacuum characteristics



Flow characteristics



Vacuum arrival time



※ Shaded ① to ⑧ line in the graph of "Vacuum arrival time" represents the code and length (mm) of the following tubes.

Please refer the below for the details.

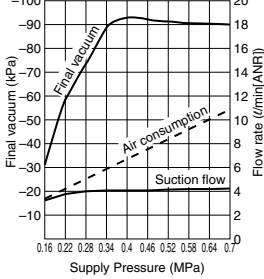
- | | | | |
|---------------------|----------------------|---------------------|----------------------|
| ① UB01810 (L: 500) | ② UB01810 (L: 1,000) | ③ UB0320 (L: 500) | ④ UB01810 (L: 2,000) |
| ⑤ UB0425 (L: 500) | ⑥ UB0320 (L: 1,000) | ⑦ UB0425 (L: 1,000) | ⑧ UB0320 (L: 2,000) |
| ⑨ UB0425 (L: 2,000) | | | |



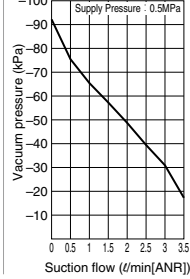
Characteristics

VUMH04

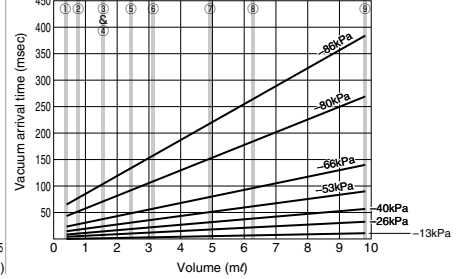
Vacuum characteristics



Flow characteristics

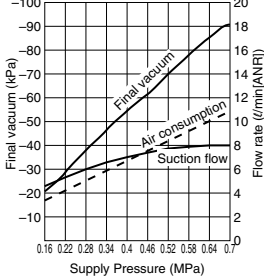


Vacuum arrival time

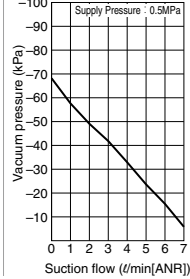


VUML04

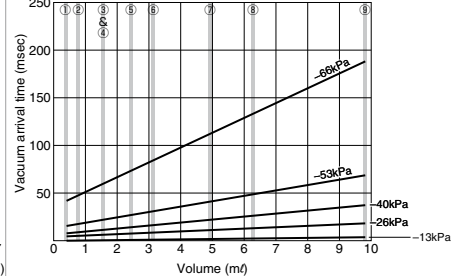
Vacuum characteristics



Flow characteristics

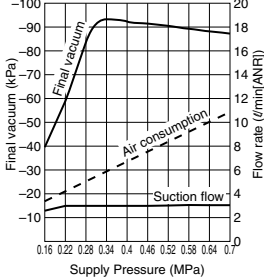


Vacuum arrival time

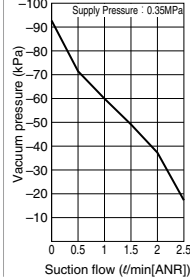


VUME04

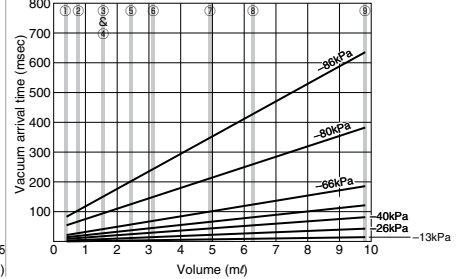
Vacuum characteristics



Flow characteristics



Vacuum arrival time



※ Shaded ① to ⑨ line in the graph of "Vacuum arrival time" represents the code and length (mm) of the following tubes.

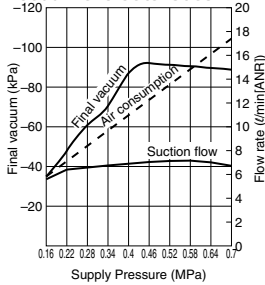
Please refer the below for the details.

- ① UB01810 (L: 500) ② UB01810 (L: 1,000) ③ UB0320 (L: 500) ④ UB01810 (L: 2,000)
- ⑤ UB0425 (L: 500) ⑥ UB0320 (L: 1,000) ⑦ UB0425 (L: 1,000) ⑧ UB0320 (L: 2,000)
- ⑨ UB0425 (L: 2,000)

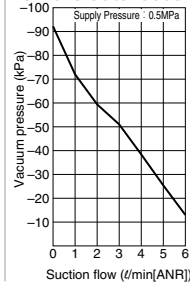
Characteristics

VUMH05

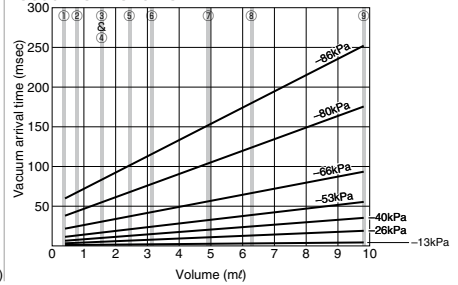
Vacuum characteristics



Flow characteristics

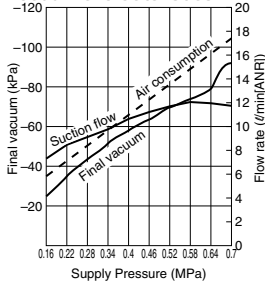


Vacuum arrival time

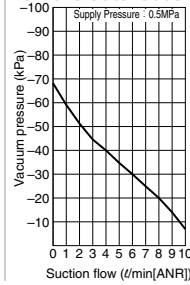


VUML05

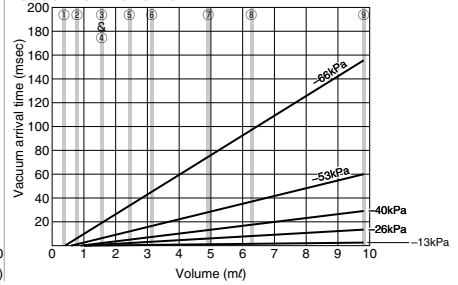
Vacuum characteristics



Flow characteristics

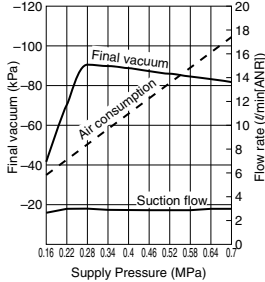


Vacuum arrival time

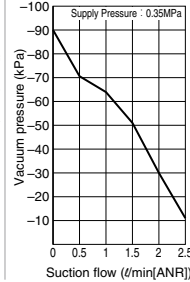


VUME05

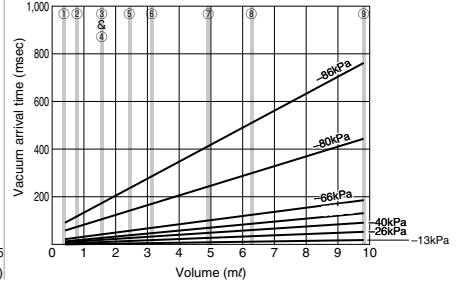
Vacuum characteristics



Flow characteristics



Vacuum arrival time



※ Shaded ① to ⑨ line in the graph of "Vacuum arrival time" represents the code and length (mm) of the following tubes.

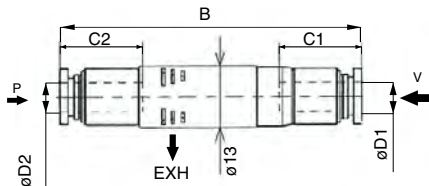
Please refer the below for the details.

- | | | | |
|---------------------|----------------------|---------------------|----------------------|
| ① UB01810 (L: 500) | ② UB01810 (L: 1,000) | ③ UB0320 (L: 500) | ④ UB01810 (L: 2,000) |
| ⑤ UB0425 (L: 500) | ⑥ UB0320 (L: 1,000) | ⑦ UB0425 (L: 1,000) | ⑧ UB0320 (L: 2,000) |
| ⑨ UB0425 (L: 2,000) | | | |



Pipe Type Union Straight (Silencer vent)

RoHS compliant

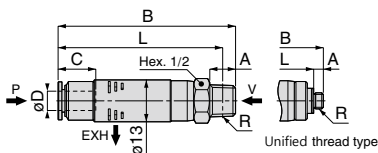


Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	B	C1	C2	Nozzle bore (mm)	Final vacuum (-kPa)	Suction flow (l/min)(ANR)	Air consumption (l/min)(ANR)	Weight (g)	CAD file name
VUH05-5/32 5/32A	5/32	5/32	49.3	10.9	10.9	0.5	90	7	11.5	18.5	—
VUH05-5/32 1/4A		1/4	55.7		17					21	
VUH05-1/4 5/32A	1/4	5/32	55.4	17	10.9	0.5	90	7	11.5	21	—
VUH05-1/4 1/4A		1/4	61.7		17					21	
VUH07-5/32 5/32A	5/32	5/32	56.1	10.9	10.9	0.7	92	12.5	23	20	—
VUH07-5/32 1/4A		1/4	62.5		17					20	
VUH07-1/4 5/32A	1/4	5/32	62.2	17	10.9	0.7	92	12.5	23	20	—
VUH07-1/4 1/4A		1/4	68.2		17					20	
VUL05-5/32 5/32A	5/32	5/32	49.3	10.9	10.9	0.5	66	12	11.5	18.5	—
VUL05-5/32 1/4A		1/4	55.7		17					21	
VUL05-1/4 5/32A	1/4	5/32	55.4	17	10.9	0.5	66	12	11.5	21	—
VUL05-1/4 1/4A		1/4	61.7		17					21	
VUL07-5/32 5/32A	5/32	5/32	56.1	10.9	10.9	0.7	66	20	23	20	—
VUL07-5/32 1/4A		1/4	62.5		17					20	
VUL07-1/4 5/32A	1/4	5/32	62.2	17	10.9	0.7	66	22	23	20	—
VUL07-1/4 1/4A		1/4	68.2		17					20	
VUE07-5/32 5/32A	5/32	5/32	56.1	10.9	10.9	0.7	90	10	17	20.5	—
VUE07-5/32 1/4A		1/4	62.5		17					20	
VUE07-1/4 5/32A	1/4	5/32	62.2	17	10.9	0.7	90	10	17	20	—
VUE07-1/4 1/4A		1/4	68.2		17					20	
VUH05-44A	4	4	49.3	10.9	10.9	0.5	90	7	11.5	18.5	VU_05-44A
VUH05-46A		6	50.4		11.7					18	VU_05-46A
VUH05-64A	6	4	50.1	11.7	10.9	0.5	90	7	11.5	18	VU_05-64A
VUH05-66A		6	51.2		11.7					17.5	VU_05-66A
VUH07-44A	4	4	56.1	10.9	10.9	0.7	92	12.5	23	20	VU_07-44A
VUH07-46A		6	56.9		11.7					19.5	VU_07-46A
VUH07-64A	6	4	50.1	11.7	10.9	0.7	92	12.5	23	19	VU_07-64A
VUH07-66A		6	57.7		11.7					18.5	VU_07-66A
VUL05-44A	4	4	49.3	10.9	10.9	0.5	66	12	11.5	18.5	VU_05-44A
VUL05-46A		6	50.4		11.7					18.5	VU_05-46A
VUL05-64A	6	4	50.1	11.7	10.9	0.5	66	12	11.5	17.5	VU_05-64A
VUL05-66A		6	51.2		11.7					17.5	VU_05-66A
VUL07-44A	4	4	56.1	10.9	10.9	0.7	66	20	23	20	VU_07-44A
VUL07-46A		6	56.9		11.7					19	VU_07-46A
VUL07-64A	6	4	50.1	11.7	10.9	0.7	66	22	23	18.5	VU_07-64A
VUL07-66A		6	57.7		11.7					17.5	VU_07-66A
VUE07-44A	4	4	56.1	10.9	10.9	0.7	90	10	17	20.5	VU_07-44A
VUE07-46A		6	56.9		11.7					19.5	VU_07-46A
VUE07-64A	6	4	50.1	11.7	10.9	0.7	90	10	17	18.5	VU_07-64A
VUE07-66A		6	57.7		11.7					19	VU_07-66A

VU Pipe Type Straight (Silencer vent)

RoHS compliant

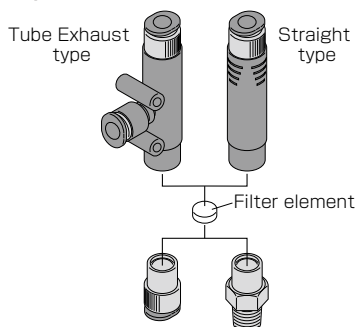


❖ NPT or UNF

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	C	Nozzle bore (mm)	Final vacuum (-kPa)	Suction flow (l/min(ANR))	Air consumption (l/min(ANR))	Weight (g)	CAD file name
VUH05-U10 5/32A	5/32	10-32UNF	3	50	47	10.9	0.5	90	7	11.5	19	-
VUH05-U10 1/4A	1/4			56.4	53.4	17					20	
VUH05-N1 5/32A	5/32	1/8NPT	8	54	49.9	10.9	0.5	90	7	11.5	23	-
VUH05-N1 1/4A	1/4			60.4	56.2	17					23	
VUH07-U10 5/32A	5/32	10-32UNF	3	56.8	53.8	10.9	0.7	92	12.5	23	19	-
VUH07-U10 1/4A	1/4			62.9	59.9	17					19	
VUH07-N1-5/32A	5/32	1/8NPT	8	60.8	56.7	10.9	0.7	92	12.5	23	22	-
VUH07-N1 1/4A	1/4			66.9	62.7	17					23	
VUL05-U10 5/32A	5/32	10-32UNF	3	50	47	10.9	0.5	66	12	11.5	19	-
VUL05-U10 1/4A	1/4			56.4	53.4	17					20	
VUL05-N1 5/32A	5/32	1/8NPT	8	54	49.9	10.9	0.5	66	12	11.5	23	-
VUL05-N1 1/4A	1/4			60.4	6	17					23	
VUL07-U10 5/32A	5/32	10-32UNF	3	56.8	53.8	10.9	0.7	66	20	23	19	-
VUL07-U10 1/4A	1/4			62.9	59.9	17					19	
VUL07-N1 5/32A	5/32	1/8NPT	8	60.8	56.7	10.9	0.7	66	22	23	22	-
VUL07-N1 1/4A	1/4			66.9	62.7	17					23	
VUE07-U10 5/32A	5/32	10-32UNF	3	56.8	53.8	10.9	0.7	90	10	17	19	-
VUE07-U10 1/4A	1/4			62.9	59.9	17					19	
VUE07-N1 5/32A	5/32	1/8NPT	8	60.8	56.7	10.9	0.7	90	10	17	22	-
VUE07-N1 1/4A	1/4			66.9	62.7	17					23	

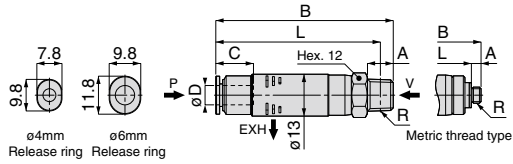
Replacement Element



Element model code	Remarks
FEE8.2x2	A : Disassembly type
FEE10x2	Adapter type only

VU Pipe Type Straight (Silencer vent)

RoHS compliant



Unit : mm

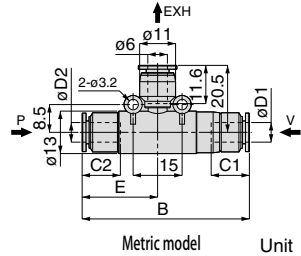
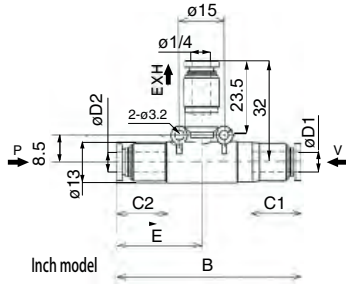
Model code	Tube O.D. øD	R	A	B	L	C	Nozzle bore (mm)	Final vacuum (-kPa)	Suction flow (l/min(ANR))	Air consumption (l/min(ANR))	Weight (g)	CAD file name
VUH05-M54A	4	M5 × 0.8	3	50	47	10.9	0.5	90	7	11.5	17.5	VU_05-M54A
VUH05-M56A	6			51.1	48.1	11.7					17	VU_05-M56A
VUH05-M64A	4	M6 × 1	3.4	50.5	47.1	10.9					18	VU_05-M64A
VUH05-M66A	6			51.6	48.2	11.7					16.5	VU_05-M66A
VUH05-014A	4	R1/8	8	54	50	10.9					20	VU_05-014A
VUH05-016A	6			55.1	51.1	11.7					19.5	VU_05-016A
VUH07-M54A	4	M5 × 0.8	3	56.8	53.8	10.9	0.7	92	12.5	23	19	VU_07-M54A
VUH07-M56A	6			57.6	54.6	11.7					18	VU_07-M56A
VUH07-M64A	4	M6 × 1	3.4	57.3	53.9	10.9					19	VU_07-M64A
VUH07-M66A	6			58.1	54.7	11.7					18.5	VU_07-M66A
VUH07-014A	4	R1/8	8	60.8	56.8	10.9					21	VU_07-014A
VUH07-016A	6			61.6	57.6	11.7					20.5	VU_07-016A
VUL05-M54A	4	M5 × 0.8	3	50	47	10.9	0.5	66	12	11.5	17.5	VU_05-M54A
VUL05-M56A	6			51.1	48.1	11.7					17	VU_05-M56A
VUL05-M64A	4	M6 × 1	3.4	50.5	47.1	10.9					17.5	VU_05-M64A
VUL05-M66A	6			51.6	48.2	11.7					17	VU_05-M66A
VUL05-014A	4	R1/8	8	54	50	10.9					20	VU_05-014A
VUL05-016A	6			55.1	51.1	11.7					19.5	VU_05-016A
VUL07-M54A	4	M5 × 0.8	3	56.8	53.8	10.9	0.7	92	20	23	19	VU_07-M54A
VUL07-M56A	6			57.6	54.6	11.7					18	VU_07-M56A
VUL07-M64A	4	M6 × 1	3.4	57.3	53.9	10.9					19	VU_07-M64A
VUL07-M66A	6			58.1	54.7	11.7					18	VU_07-M66A
VUL07-014A	4	R1/8	8	60.8	56.8	10.9					21	VU_07-014A
VUL07-016A	6			61.6	57.6	11.7					20.5	VU_07-016A
VUE07-M54A	4	M5 × 0.8	3	56.8	53.8	10.9	0.7	90	10	17	19	VU_07-M54A
VUE07-M56A	6			57.6	54.6	11.7					18.5	VU_07-M56A
VUE07-M64A	4	M6 × 1	3.4	57.3	53.9	10.9					19	VU_07-M64A
VUE07-M66A	6			58.1	54.7	11.7					18.5	VU_07-M66A
VUE07-014A	4	R1/8	8	60.8	56.8	10.9					21.5	VU_07-014A
VUE07-016A	6			61.6	57.6	11.7					20.5	VU_07-016A

※ "L1" is reference dimension after tightening the taper thread.

※ A knurling knob is used on M5 and M6 thread instead of a hexagonal-column. Hex.12 is used only for 01(R1/8).

VU Pipe Type Union Straight (Silencer vent)

RöHS compliant



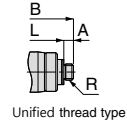
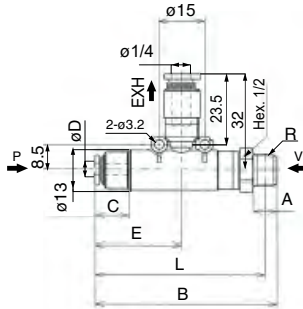
Unit : mm

Model code	Tube O.D. $\phi D1$	Tube O.D. $\phi D2$	B	C1	C2	E	Nozzle bore (mm)	Final vacuum (-kPa)	Suction flow (l/min(ANR))	Air consumption (l/min(ANR))	Weight (g)	CAD file name					
VUH05-5/32 5/32J	5/32	5/32	49.3	10.9	10.9	22	0.5	90	7	11.5	21	—					
VUH05-5/32 1/4J		1/4	55.7		17	28.4					27						
VUH05-1/4 5/32J	1/4	5/32	55.4	17	10.9	22					0.7		92	12.5	23	27	—
VUH05-1/4 1/4J		1/4	61.7		17	28.4										27	
VUH07-5/32 5/32J	5/32	5/32	56.1	10.9	10.9	28.8	0.7	92	12.5	23		22				—	
VUH07-5/32 1/4J		1/4	62.5		17	34.9						28					
VUH07-1/4 5/32J	1/4	5/32	62.2	17	10.9	28.8					0.7	92	12.5	23	28		—
VUH07-1/4 1/4J		1/4	68.2		17	34.9									28		
VUL05-5/32 5/32J	5/32	5/32	49.3	10.9	10.9	22	0.5	66	12	11.5					21	—	
VUL05-5/32 1/4J		1/4	55.7		17	28.4									27		
VUL05-1/4 5/32J	1/4	5/32	55.4	17	10.9	22					0.7	66	12	11.5	27		—
VUL05-1/4 1/4J		1/4	61.7		17	28.4									27		
VUL07-5/32 5/32J	5/32	5/32	56.1	10.9	10.9	28.8	0.7	66	20	23					22	—	
VUL07-5/32 1/4J		1/4	62.5		17	34.9									27		
VUL07-1/4 5/32J	1/4	5/32	62.2	17	10.9	28.8			0.7		66	22	23	27	—		
VUL07-1/4 1/4J		1/4	68.2		17	34.9								27			
VUE07-5/32 5/32J	5/32	5/32	56.1	10.9	10.9	28.8	0.7	90		10		17		22		—	
VUE07-5/32 1/4J		1/4	62.5		17	34.9								28			
VUE07-1/4 5/32J	1/4	5/32	62.2	17	10.9	28.8			0.7		90		10	17	28		—
VUE07-1/4 1/4J		1/4	68.2		17	34.9									28		
VUH05-44J	4	4	49.3	10.9	10.9	22	0.5	90		7		11.5			21	VU_05-44J	
VUH05-46J		6	50.4		11.7	23.1									20.5	VU_05-46J	
VUH05-64J	6	4	50.1	11.7	10.9	22			0.7		92		12.5	23	20	VU_05-64J	
VUH05-66J		6	51.2		11.7	23.1									19.5	VU_05-66J	
VUH07-44J	4	4	56.1	10.9	10.9	28.8	0.7	92		12.5		23			22.5	VU_07-44J	
VUH07-46J		6	56.9		11.7	29.6									21.5	VU_07-46J	
VUH07-64J	6	4	56.9	11.7	10.9	28.8			0.7		92		12.5	23	21.5	VU_07-64J	
VUH07-66J		6	57.7		11.7	29.6									20.5	VU_07-66J	
VUL05-44J	4	4	49.3	10.9	10.9	22	0.5	66		12		11.5			21	VU_05-44J	
VUL05-46J		6	50.4		11.7	23.1									20.5	VU_05-46J	
VUL05-64J	6	4	50.1	11.7	10.9	22			0.7		66		20	23	20	VU_05-64J	
VUL05-66J		6	51.2		11.7	23.1									19.5	VU_05-66J	
VUL07-44J	4	4	56.1	10.9	10.9	28.8	0.7	66		20		23	22		VU_07-44J		
VUL07-46J		6	56.9		11.7	29.6							21.5		VU_07-46J		
VUL07-64J	6	4	56.9	11.7	10.9	28.8			0.7	66	22		23	21	VU_07-64J		
VUL07-66J		6	57.7		11.7	29.6								20.5	VU_07-66J		
VUE07-44J	4	4	56.1	10.9	10.9	28.8	0.7	90			10	17		22	VU_07-44J		
VUE07-46J		6	56.9		11.7	29.6								21.5	VU_07-46J		
VUE07-64J	6	4	56.9	11.7	10.9	28.8			0.7	90			10	17	21.5	VU_07-64J	
VUE07-66J		6	57.7		11.7	29.6									20.5	VU_07-66J	

※ Add "-S3" at the end of model code for "Copper alloy free".

VU Pipe Type Straight Tube Exhaust (Tube exhaust)

RoHS compliant

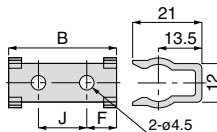


❖ NPT or UNF

Unit : mm

Model code	Tube O.D. øD	R	A	B	L	C	E	Nozzle bore (mm)	Final vacuum (-kPa)	Suction flow (l/min(ANR))	Air consumption (l/min(ANR))	Weight (g)	CAD file name
VUH05-U10 5/32J	5/32	10-32UNF	3	50	47	10.9	22	0.5	90	7	11.5	20	-
VUH05-U10 1/4J	1/4			56.4	53.4	17	28.4					26	
VUH05-N1 5/32J	5/32	1/8NPT	8	54	49.9	10.9	22	0.5	90	7	11.5	29	-
VUH05-N1 1/4J	1/4			60.4	56.2	17	28.4					29	
VUH07-U10 5/32J	5/32	10-32UNF	3	56.8	53.8	10.9	28.8	0.7	92	12.5	23	21	-
VUH07-U10 1/4J	1/4			62.9	59.9	17	34.9					27	
VUH07-N1 5/32J	5/32	1/8NPT	8	60.8	56.7	10.9	28.8	0.7	92	12.5	23	30	-
VUH07-N1 1/4J	1/4			66.9	62.7	17	34.9					30	
VUL05-U10 5/32J	5/32	10-32UNF	3	50	47	10.9	22	0.5	66	12	11.5	20	-
VUL05-U10 1/4J	1/4			56.4	53.4	17	28.4					26	
VUL05-N1 5/32J	5/32	1/8NPT	8	54	49.9	10.9	22	0.5	66	12	11.5	29	-
VUL05-N1 1/4J	1/4			60.4	6	17	28.4					29	
VUL07-U10 5/32J	5/32	10-32UNF	3	56.8	53.8	10.9	28.8	0.7	66	20	23	21	-
VUL07-U10 1/4J	1/4			62.9	59.9	17	34.9					27	
VUL07-N1 5/32J	5/32	1/8NPT	8	60.8	56.7	10.9	28.8	0.7	66	22	23	30	-
VUL07-N1 1/4J	1/4			66.9	62.7	17	34.9					30	
VUE07-U10 5/32J	5/32	10-32UNF	3	56.8	53.8	10.9	28.8	0.7	90	10	17	21	-
VUE07-U10 1/4J	1/4			62.9	59.9	17	34.9					27	
VUE07-N1 5/32J	5/32	1/8NPT	8	60.8	56.7	10.9	28.8	0.7	90	10	17	30	-
VUE07-N1 1/4J	1/4			66.9	62.7	17	34.9					30	

VUK VU Holder



Unit : mm

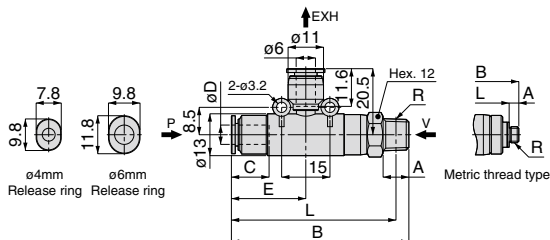
Model code	B	F	J	Weight (g)	CAD file name
VUK05	33.2	9	15	2	VVU-005
VUK07	39.2	10	20	2	

※ VUK05 is for nozzle bore ø0.5mm and VUK07 is for nozzle bore ø0.7mm.

※ This product can be applicable only for the vacuum generator ending with the model code "J" or "A".

VU Pipe Type Straight Tube Exhaust (Tube exhaust)

RoHS compliant
Copper alloy free
Selectable



Unit : mm

Model code	Tube O.D. øD	R	A	B	L	C	E	Nozzle bore (mm)	Final vacuum (-kPa)	Suction flow (l/min) (ANR)	Air consumption (l/min) (ANR)	Weight (g)	CAD file name	
VUH05-M54J	4	M5 × 0.8	3	50	47	10.9	22	0.5	90	7	11.5	20	VU_05-M54J	
VUH05-M56J	6			51.1	48.1	11.7	23.1					19.5	VU_05-M56J	
VUH05-M64J	4	M6 × 1	3.4	50.5	47.1	10.9	22					20	VU_05-M64J	
VUH05-M66J	6			51.6	48.2	11.7	23.1					19.5	VU_05-M66J	
VUH05-014J	4	R1/8	8	54	50	10.9	22					22.5	VU_05-014J	
VUH05-016J	6			55.1	51.1	11.7	23.1					22	VU_05-016J	
VUH07-M54J	4	M5 × 0.8	3	56.8	53.8	10.9	28.8	0.7	92	12.5	23	21	VU_07-M54J	
VUH07-M56J	6			57.6	54.6	11.7	29.6					20.5	VU_07-M56J	
VUH07-M64J	4	M6 × 1	3.4	57.3	53.9	10.9	28.8					21	VU_07-M64J	
VUH07-M66J	6			58.1	54.7	11.7	29.6					20.5	VU_07-M66J	
VUH07-014J	4	R1/8	8	60.8	56.8	10.9	28.8					23.5	VU_07-014J	
VUH07-016J	6			61.6	57.6	11.7	29.6					23	VU_07-016J	
VUL05-M54J	4	M5 × 0.8	3	50	47	10.9	22	0.5	66	12	11.5	19.5	VU_05-M54J	
VUL05-M56J	6			51.1	48.1	11.7	23.1					19.5	VU_05-M56J	
VUL05-M64J	4	M6 × 1	3.4	50.5	47.1	10.9	22					19	VU_05-M64J	
VUL05-M66J	6			51.6	48.2	11.7	23.1					19	VU_05-M66J	
VUL05-014J	4	R1/8	8	54	50	10.9	22					22	VU_05-014J	
VUL05-016J	6			55.1	51.1	11.7	23.1					21.5	VU_05-016J	
VUL07-M54J	4	M5 × 0.8	3	56.8	53.8	10.9	28.8	0.7		90	10	17	20	VU_07-M54J
VUL07-M56J	6			57.6	54.6	11.7	29.6						20	VU_07-M56J
VUL07-M64J	4	M6 × 1	3.4	57.3	53.9	10.9	28.8						21	VU_07-M64J
VUL07-M66J	6			58.1	54.7	11.7	29.6						20.5	VU_07-M66J
VUL07-014J	4	R1/8	8	60.8	56.8	10.9	28.8						23	VU_07-014J
VUL07-016J	6			61.6	57.6	11.7	29.6						22.5	VU_07-016J
VUE07-M54J	4	M5 × 0.8	3	56.8	53.8	10.9	28.8	0.7	90	10	17	21.5	VU_07-M54J	
VUE07-M56J	6			57.6	54.6	11.7	29.6					20.5	VU_07-M56J	
VUE07-M64J	4	M6 × 1	3.4	57.3	53.9	10.9	28.8					21	VU_07-M64J	
VUE07-M66J	6			58.1	54.7	11.7	29.6					20.5	VU_07-M66J	
VUE07-014J	4	R1/8	8	60.8	56.8	10.9	28.8					23.5	VU_07-014J	
VUE07-016J	6			61.6	57.6	11.7	29.6					23	VU_07-016J	

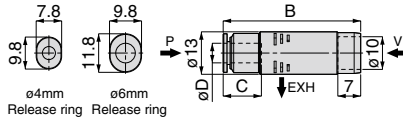
* "L1" is reference dimension after tightening the taper thread.

* A knurling knob is used on M5 and M6 thread instead of a hexagonal-column. Hex.12 is used only for 01(R1/8).

* Add "-S3" at the end of model code for "Copper alloy free".

Pipe Type Adapter

RoHS compliant



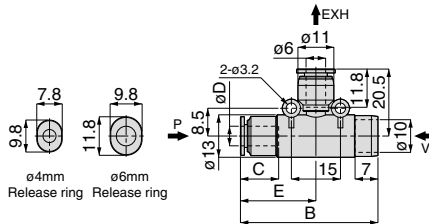
Unit : mm

Model code	Tube O.D. ϕ D	B	C	Nozzle bore (mm)	Final vacuum (-kPa)	Suction flow (ℓ /min(ANR))	Air consumption (ℓ /min(ANR))	Weight (g)	CAD file name	
VUH05-4A	4	41	10.9	0.5	90	7	11.5	11.5	VU_05-4A	
VUH05-6A	6	42.1	11.7						VU_05-6A	
VUH07-4A	4	47.8	10.9	0.7	92	12.5	23	13	VU_07-4A	
VUH07-6A	6	48.6	11.7					12.5	VU_07-6A	
VUL05-4A	4	41	10.9	0.5	66	12	11.5	11.5	VU_05-4A	
VUL05-6A	6	42.1	11.7						VU_05-6A	
VUL07-4A	4	47.8	10.9	0.7		20	23	12.5	VU_07-4A	
VUL07-6A	6	48.6	11.7			22		12	VU_07-6A	
VUE07-4A	4	47.8	10.9	0.7		90	10	17	13	VU_07-4A
VUE07-6A	6	48.6	11.7						12.5	VU_07-6A

Pipe Type Adapter Tube Exhaust

RoHS compliant

Copper alloy free
Selectable



Unit : mm

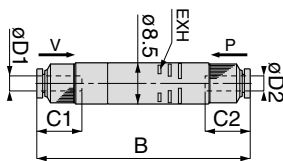
Model code	Tube O.D. ϕ D	B	C	E	Nozzle bore (mm)	Final vacuum (-kPa)	Suction flow (ℓ /min(ANR))	Air consumption (ℓ /min(ANR))	Weight (g)	CAD file name	
VUH05-4J	4	41	10.9	22	0.5	90	7	11.5	13.5	VU_05-4J	
VUH05-6J	6	42.1	11.7	23.1					13	VU_05-6J	
VUH07-4J	4	47.8	10.9	28.8	0.7	92	12.5	23	15	VU_07-4J	
VUH07-6J	6	48.6	11.7	29.6					14.5	VU_07-6J	
VUL05-4J	4	41	10.9	22	0.5	66	12	11.5	13.5	VU_05-4J	
VUL05-6J	6	42.1	11.7	23.1					13	VU_05-6J	
VUL07-4J	4	47.8	10.9	28.8	0.7		22	23	15	VU_07-4J	
VUL07-6J	6	48.6	11.7	29.6					14	VU_07-6J	
VUE07-4J	4	47.8	10.9	28.8	0.7		90	10	17	14.5	VU_07-4J
VUE07-6J	6	48.6	11.7	29.6						14.5	VU_07-6J

* Add "-S3" at the end of model code for "Copper alloy free".

VUM Pipe Type Union Straight (Silencer vent)

RoHS compliant

Energy saving type Space saving type



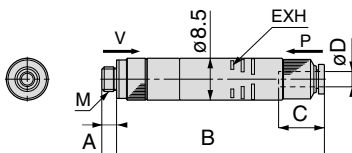
Unit : mm

Model	Tube O.D. $\phi D1$	Tube O.D. $\phi D2$	C1	C2	B	Nozzle bore (ϕ)	Operating pressure (MPa)	Final vacuum (-kPa)	Suction flow (l/min (ANR))	Air consumption (l/min (ANR))	Weight (g)
VUMH03-5/32-5/32	5/32	5/32	10.9	10.9	47.2	0.3	0.5	90	2	4.5	7.3
VUMH04-5/32-5/32						0.4			4	8	
VUMH05-5/32-5/32						0.5			7	11.5	
VUML03-5/32-5/32	5/32	5/32	10.9	10.9	47.2	0.3	0.5	66	3	4.5	7.3
VUML04-5/32-5/32						0.4			7	8	
VUML05-5/32-5/32						0.5			12	11.5	
VUME03-5/32-5/32	5/32	5/32	10.9	10.9	47.2	0.3	0.35	88	1	3.5	7.3
VUME04-5/32-5/32						0.4			2	6.5	
VUME05-5/32-5/32						0.5			3	8	

VUM Pipe Type Straight (Silencer vent)

RoHS compliant

Energy saving type Space saving type



Unit : mm

Model	Tube O.D. $\phi D1$	M	A	C	B	Nozzle bore (ϕ)	Operating pressure (MPa)	Final vacuum (-kPa)	Suction flow (l/min (ANR))	Air consumption (l/min (ANR))	Weight (g)
VUMH03-U10-5/32	5/32	10-32UNF	3	10.9	46.8	0.3	0.5	90	2	4.5	8.1
VUMH04-U10-5/32						0.4			4	8	
VUMH05-U10-5/32						0.5			7	11.5	
VUML03-U10-5/32	5/32	10-32UNF	3	10.9	46.8	0.3	0.5	66	3	4.5	8.1
VUML04-U10-5/32						0.4			7	8	
VUML05-U10-5/32						0.5			12	11.5	
VUME03-U10-5/32	5/32	10-32UNF	3	10.9	46.8	0.3	0.35	88	1	3.5	8.1
VUME04-U10-5/32						0.4			2	6.5	
VUME05-U10-5/32						0.5			3	8	

VUM Pipe Type Union Straight (Silencer vent)

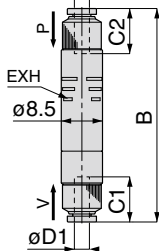
Unit : mm

RoHS compliant

Energy saving type
Space saving type



Release ring size of tube
O.D. ø1.8 / 4mm



Release ring size of tube
O.D. ø3mm



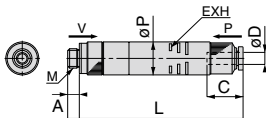
Release ring size of tube
O.D. ø1.8 / 4mm

Model code	Tube O.D. øD1	Tube O.D. øD2	C1	C2	B	øP	Nozzle bore (ø)	Operating pressure (MPa)	Final vacuum (-kPa)	Suction flow (l/min/ANR)	Air consumption (l/min/ANR)	Weight (g)	CAD file name																								
VUMH03-1803	1.8	3	8.4	9.3	43.1	4.8	0.3			2	4.5	6.4	-																								
VUMH03-1804		4		10.9	44.7							6.5																									
VUMH03-33	3	3	9.3	9.3	44	6.6																															
VUMH03-34		4		10.9	45.6	6.8																															
VUMH03-43	4	3	10.9	9.3	45.6	7.8						0.4		0.5	90	4	8	6.4																			
VUMH03-44		4		10.9	47.2	6.5																															
VUMH04-1803	1.8	3	8.4	9.3	43.1	4.8				0.5									7	11.5	6.4																
VUMH04-1804		4		10.9	44.7	6.5																															
VUMH04-33	3	3	9.3	9.3	44	-															0.3			3	4.5	6.6											
VUMH04-34		4		10.9	45.6	-																				6.8											
VUMH04-43	4	3	10.9	9.3	45.6	7.8																				0.4	0.5	66	7	8	6.4						
VUMH04-44		4		10.9	47.2	6.5																															
VUMH05-1803	1.8	3	8.4	9.3	43.1	4.8	0.5						12						11.5	6.4																	
VUMH05-1804		4		10.9	44.7	6.5																															
VUMH05-33	3	3	9.3	9.3	44	-														0.3													3	4.5	6.6		
VUMH05-34		4		10.9	45.6	-																													6.8		
VUMH05-43	4	3	10.9	9.3	45.6	7.8						0.4		0.5	90	4	8																		6.4		
VUMH05-44		4		10.9	47.2	6.5																															
VUML03-1803	1.8	3	8.35	9.3	43.1	4.8				0.3								3	4.5																6.4		
VUML03-1804		4		10.9	44.7	6.5																															
VUML03-33	3	3	9.3	9.3	44	-															0.4	0.5	66	7	8										6.6		
VUML03-34		4		10.9	45.6	-																													6.8		
VUML03-43	4	3	10.9	9.3	45.6	7.8																				0.5			12	11.5					6.4		
VUML03-44		4		10.9	47.2	6.5																															
VUML04-1803	1.8	3	8.4	9.3	43.1	4.8	0.3																												3	4.5	6.6
VUML04-1804		4		10.9	44.7	-																															6.8
VUML04-33	3	3	9.3	9.3	44	-														0.4											0.5	90	4	8			6.4
VUML04-34		4		10.9	45.6	-																															6.5
VUML04-43	4	3	10.9	9.3	45.6	7.8						0.5				12	11.5																				6.6
VUML04-44		4		10.9	47.2	6.8																															
VUML05-33	3	3	9.3	9.3	44	-				0.3								3	4.5																		6.4
VUML05-34		4		10.9	45.6	-																															6.5
VUML05-43	4	3	10.9	9.3	45.6	7.8															0.4	0.35	88	1	3.5												6.6
VUML05-44		4		10.9	47.2	6.8																															
VUME03-1803	1.8	3	8.4	9.3	43.1	4.8																				0.3			1	3.5							6.4
VUME03-1804		4		10.9	44.7	6.5																															
VUME03-33	3	3	9.3	9.3	44	-	0.4	0.35	90																										2	6.5	6.6
VUME03-34		4		10.9	45.6	-																															6.8
VUME03-43	4	3	10.9	9.3	45.6	7.8														0.5													3	8			6.4
VUME03-44		4		10.9	47.2	6.5																															
VUME04-1803	1.8	3	8.4	9.3	43.1	4.8						0.3				1	3.5																				6.6
VUME04-1804		4		10.9	44.7	-																															6.8
VUME04-33	3	3	9.3	9.3	44	-				0.4	0.35		90					2	6.5																		6.4
VUME04-34		4		10.9	45.6	-																															6.5
VUME04-43	4	3	10.9	9.3	45.6	7.8															0.5			3	8												6.6
VUME04-44		4		10.9	47.2	6.8																															
VUME05-1803	1.8	3	8.4	9.3	43.1	4.8																				0.3			1	3.5							6.4
VUME05-1804		4		10.9	44.7	6.5																															
VUME05-33	3	3	9.3	9.3	44	-	0.4	0.35	90																										2	6.5	6.6
VUME05-34		4		10.9	45.6	-																															6.8
VUME05-43	4	3	10.9	9.3	45.6	7.8														0.5													3	8			6.4
VUME05-44		4		10.9	47.2	6.5																															

VUM Pipe Type Straight (Silencer vent)

RoHS compliant

Energy saving type
Space saving type



Release ring size of tube
O.D. ϕ 3mm

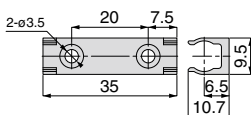


Release ring size of tube
O.D. ϕ 4mm

Unit : mm

Model	Tube O.D. ϕ D	M	A	C	L	Nozzle bore (ϕ)	Operating pressure (MPa)	Final vacuum (-kPa)	Suction flow (l/min (ANR))	Air consumption (l/min (ANR))	Weight (g)	CAD file name	
VUMH03-M33	3	M3 \times 0.5	2.5	9.3	42.2	0.3			2	4.5	6.7	-	
VUMH03-M34	4			10.9	43.8						6.8		
VUMH03-M53	3	M5 \times 0.8	3	9.3	42.2	0.3			2	4.5	7.5		
VUMH03-M54	4			10.9	43.8						7.7		
VUMH04-M33	3	M3 \times 0.5	2.5	9.3	42.2	0.4	0.5	90	4	8	6.7		
VUMH04-M34	4			10.9	43.8						6.8		
VUMH04-M53	3	M5 \times 0.8	3	9.3	42.2	0.4	0.5	90	4	8	7.5		
VUMH04-M54	4			10.9	43.8						7.7		
VUMH05-M33	3	M3 \times 0.5	2.5	9.3	42.2	0.5			7	11.5	6.7		
VUMH05-M34	4			10.9	43.8						6.8		
VUMH05-M53	3	M5 \times 0.8	3	9.3	42.2	0.5			7	11.5	7.5		
VUMH05-M54	4			10.9	43.8						7.7		
VUML03-M33	3	M3 \times 0.5	2.5	9.3	42.2	0.3			3	4.5	6.7		-
VUML03-M34	4			10.9	43.8						6.8		
VUML03-M53	3	M5 \times 0.8	3	9.3	42.2	0.3			3	4.5	7.5		
VUML03-M54	4			10.9	43.8						7.7		
VUML04-M33	3	M3 \times 0.5	2.5	9.3	42.2	0.4	0.5	66	7	8	6.7		
VUML04-M34	4			10.9	43.8						6.8		
VUML04-M53	3	M5 \times 0.8	3	9.3	42.2	0.4	0.5	66	7	8	7.5		
VUML04-M54	4			10.9	43.8						7.7		
VUML05-M33	3	M3 \times 0.5	2.5	9.3	42.2	0.5			12	11.5	6.7		
VUML05-M34	4			10.9	43.8						6.8		
VUML05-M53	3	M5 \times 0.8	3	9.3	42.2	0.5			12	11.5	7.5		
VUML05-M54	4			10.9	43.8						7.7		
VUME03-M33	3	M3 \times 0.5	2.5	9.3	42.2	0.3			1	3.5	6.7	-	
VUME03-M34	4			10.9	43.8						6.8		
VUME03-M53	3	M5 \times 0.8	3	9.3	42.2	0.3			1	3.5	7.5		
VUME03-M54	4			10.9	43.8						7.7		
VUME04-M33	3	M3 \times 0.5	2.5	9.3	42.2	0.4	0.35		2	6.5	6.7		
VUME04-M34	4			10.9	43.8						6.8		
VUME04-M53	3	M5 \times 0.8	3	9.3	42.2	0.4	0.35		2	6.5	7.5		
VUME04-M54	4			10.9	43.8						7.7		
VUME05-M33	3	M3 \times 0.5	2.5	9.3	42.2	0.5			3	8	6.7		
VUME05-M34	4			10.9	43.8						6.8		
VUME05-M53	3	M5 \times 0.8	3	9.3	42.2	0.5			3	8	7.5		
VUME05-M54	4			10.9	43.8						7.7		

VUK VUM Type Fixing Holder



Unit : mm

Model code	Weight (g)	CAD file name
VUK04	1	-

Replacement Element



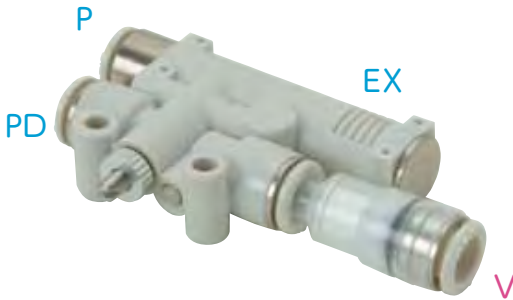
Filter element model code	FEE5.6 \times 1.5
Spacer model code	VUM008S16

Spacer

Filter element

VY Series

Vacuum Generator with blow-off function

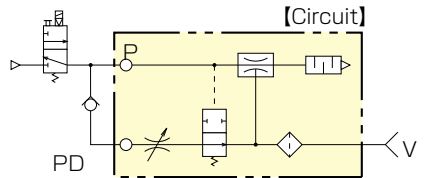


Vacuum & Blow-off

Control by

1 Solenoid Valve!

Blow-off air is also adjustable!



Reduce Solenoid Valve

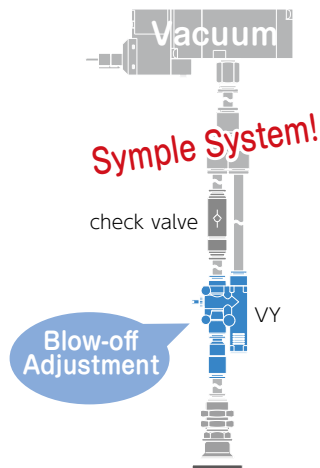
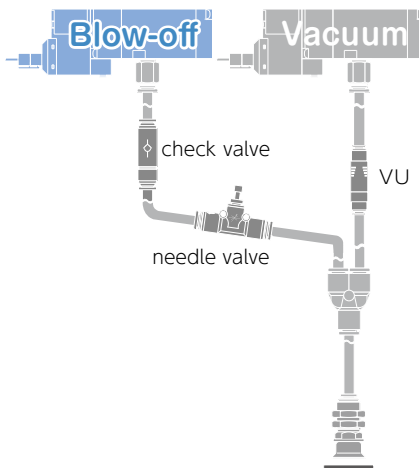
You can reduce a solenoid valve for blow-off air!

Vacuum Generator VU

You need 2 solenoid valves for vacuum and blow-off.

Vacuum Generator VY

Solenoid valve for vacuum and needle valve are not required.



Spec.

Fluids	Air
Pressure Range	43.5 ~ 101.5psi (0.3 ~ 0.7 MPa)
Rated Pressure	H, L: 72.5psi (0.5 MPa) / E: 50.8psi (0.35 MPa)
Operating Temp. Range	41 ~ 122°F (5 ~ 50°C)
Lubrication	no required

Vacuum Filter (VYF)

Fluids	Air
Pressure Range	-29.5 ~ 0 inHg (-100 ~ 0 kPa)
Filtering Accuracy	10 μm
Operating Temp. Range	32 ~ 140°F (0 ~ 60°C) (No freezing)
Filter Area	size 44 : 0.12in. ² (0.8cm ²) / size 66 : 0.17in. ² (1.1cm ²)

e.g.) Order Code



Vacuum Generator VY

② Performance

Code	Performance
H	Deep Vacuum (rated pressure : 72.5psi (0.5MPa))
L	Large Flow (rated pressure : 72.5psi (0.5MPa))
E	Low Air Consumption (rated pressure : 50.8psi (0.35MPa))

③ Nozzle Size

code	Nozzle(mm)
05	0.5
06	0.6
07	0.7

⑦ Exhaust

code	Exhaust
no code	Silencer Exhaust
J	Tube Exhaust

④ Vacuum Port

⑤ Supply Port

⑥ Blow-off Port

code	Fitting(mm)
04	4 (5/32)
06	6

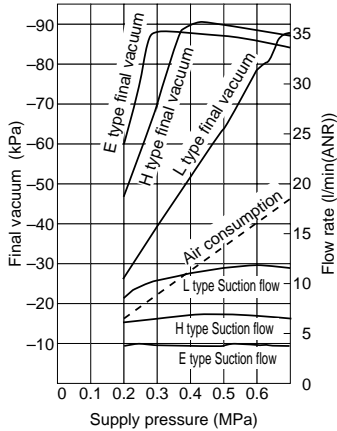
⑧ Filter Option

code	Option
F	Vacuum Filter

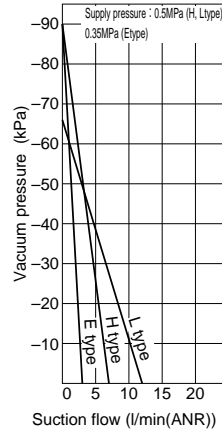
Characteristics

VYH05, VYL05, VYE05

Vacuum characteristics

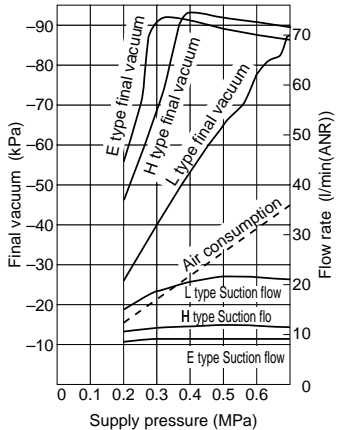


Flow characteristics

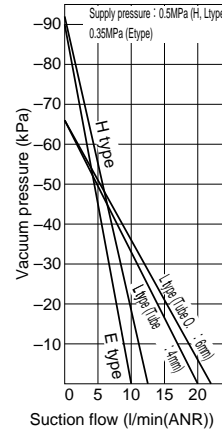


VYH07, VYL07, VYE07

Vacuum characteristics



Flow characteristics



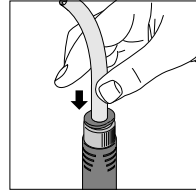
Visit Vacuum Generator VY website
for full variation and dimensional
information.

How to insert and disconnect

1. How to insert and disconnect tubes

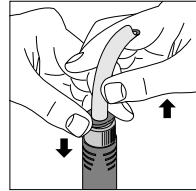
① Tube insertion

Insert a tube into Push-In Fitting of the vacuum generator up to the tube end. Lock-claws bite the tube to fix it and the elastic sleeve seals around the tube. Refer to "2. Instructions for Tube Insertion" under "Common Safety Instructions for Fittings" .



② Tube disconnection

The tube is disconnected by pushing release-ring to release Lock-claws. Make sure to stop air supply before the tube disconnection.



2. How to tighten thread

① Tightening thread

There are two ways to fix vacuum generators. One is tightening a hexagonal-column by a proper spanner, and the other is fixing with M4 thread at the fixing holes which is adopted to VB and VUSM.

Refer to the outer dimensional drawings of the hole pitch.

