

Discrete type for different piping conditions

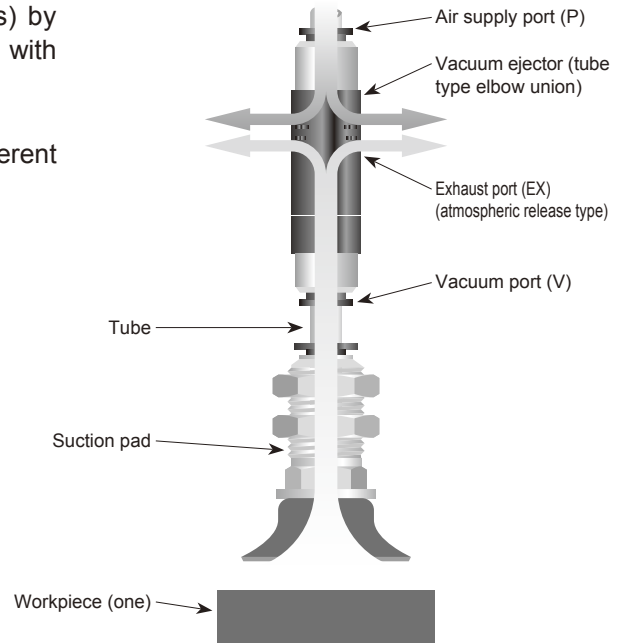
VSH/VSU/VSB/VSC Series

- Nozzle diameter: $\varnothing 0.5$, $\varnothing 0.7$, $\varnothing 1.0$, $\varnothing 1.2$, $\varnothing 1.5$, $\varnothing 2.0$
Different performance and shape are available to match different conditions.



Features

- This ejector can be used to transport workpieces (objects) by changing compressed air to a vacuum and using combined with a vacuum pad.
- Different performance and shape are available to match different conditions.



Common specifications

Descriptions	VSH/VSU/VSB/VSC
Working fluid	Compressed air
Working pressure range MPa	0.15 to 0.7
Ambient temperature range °C	0 to 60

Square shaped/vacuum switch mounted type (VSB) / mechanical vacuum switch specifications

Descriptions	Mechanical vacuum switch
Pressure detection method	Diaphragm - micro switch
Working fluid	Low vacuum/air
Ambient temperature range °C	0 to 60 (no freezing)
Rated electricity	3A 250V
Set pressure range kPa	-20 to -66
Precision kPa	± 5
Hysteresis kPa	22 or less
Setting pressure when shipping kPa	-53

How to order * Refer to the tables of dimensions on pages 18 to 28.

VS H - H 07 - 10 8A J

A Shape

B Vacuum characteristics

C Nozzle diameter

D Vacuum port (V)

E Air supply port (P)

F Additional

Symbol	Descriptions
A Shape	
H	Solenoid valve directly mounted type
U	Tube type
C	Pad directly mounted type
B	Square shaped
B Vacuum characteristics	
H	High vacuum/medium flow type
L	Medium vacuum/large flow rate type
E	High vacuum/small flow rate type
C Nozzle diameter	
05	ø0.5
07	ø0.7
10	ø1.0
12	ø1.2
15	ø1.5
20	ø2.0
D Vacuum port (V)	
4	ø4 push-in joint
6	ø6 push-in joint
8	ø8 push-in joint
10	ø10 push-in joint
12	ø12 push-in joint
M5	M5 x 0.5
6A	R1/8
8A	R1/4
10A	R3/8
E Air supply port (P)	
4	ø4 push-in joint
6	ø6 push-in joint
6L	ø6 push-in joint elbow
8	ø8 push-in joint
8L	ø8 push-in joint elbow
10	ø10 push-in joint
10L	ø10 push-in joint elbow
12	ø12 push-in joint
M5	M5 x 0.5
6A	R1/8
8A	R1/4
F Additional	
S	Atmospheric release with silencer (VSH/VSU/VSC)
J	Common exhaust (VSH/VSU/VSC)
V	With mechanical vacuum switch (VSB)
Blank	Without pressure switch for vacuum (VSB)

Ejector system

VSU

VSH-VSU
VSB-VSC

VSG

VSK
VSKM

VSJ
VSJM

VSX
VSXM

VSQ

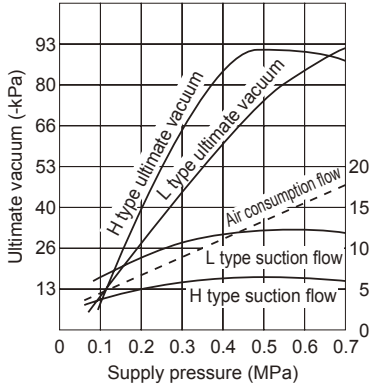
VSZM

VSH/VSU/VSB/VSC Series

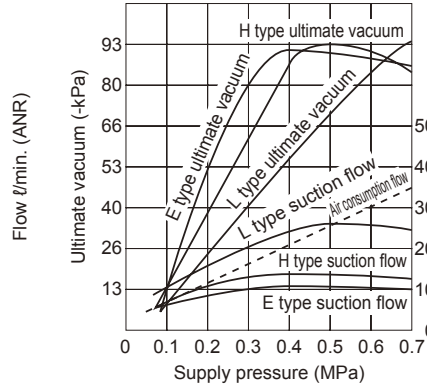
Vacuum characteristics

Supply pressure - ultimate vacuum, suction flow, air consumption flow

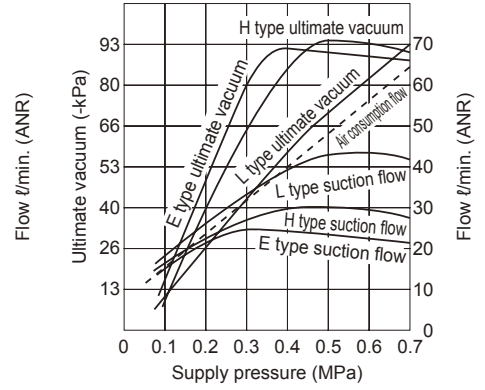
● VSH- Γ 05, VSB- Γ 05



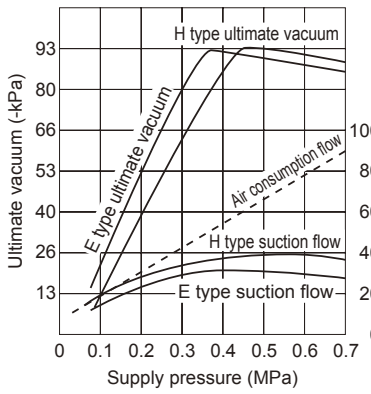
● VSH-*07, VSB-*07, VSC-*07



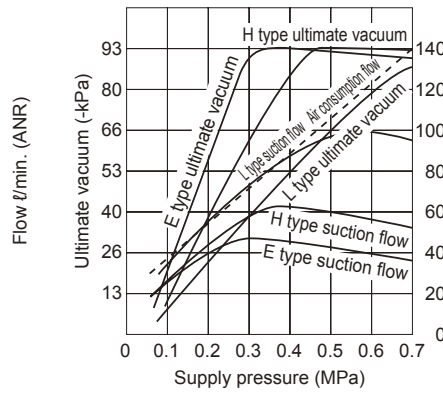
● VSH-*10, VSB-*10, VSC-*10



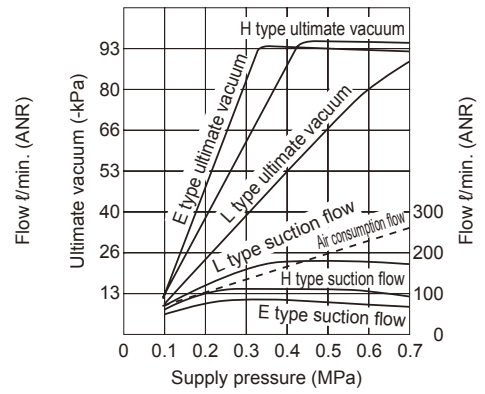
● VSH-H12, VSB-H12, VSC- Γ 12



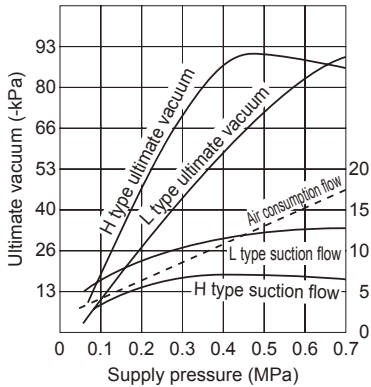
● VSH-*15, VSC-*15



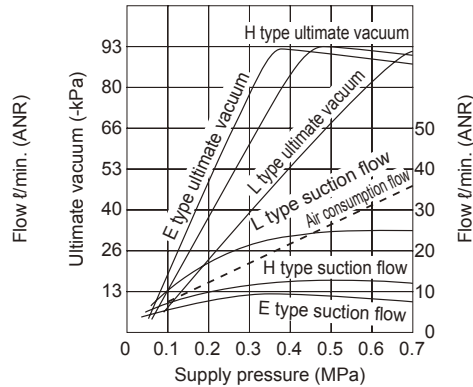
● VSH-*20, VSC-*20



● VSU- Γ 05, VSC- Γ 05



● VSU-*07

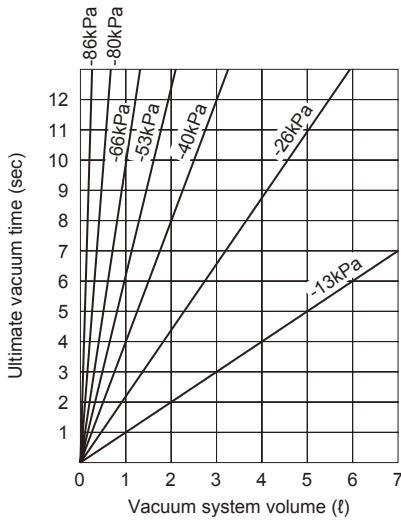


Vacuum characteristics

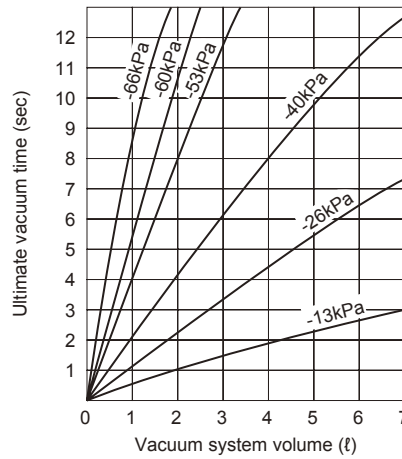
(References) Ultimate vacuum time (supply pressure H type: 0.5MPa, L type: 0.5MPa, E type: 0.3 to 0.5MPa)

* Values differ with vacuum system piping shape, etc., so use these valves for reference.

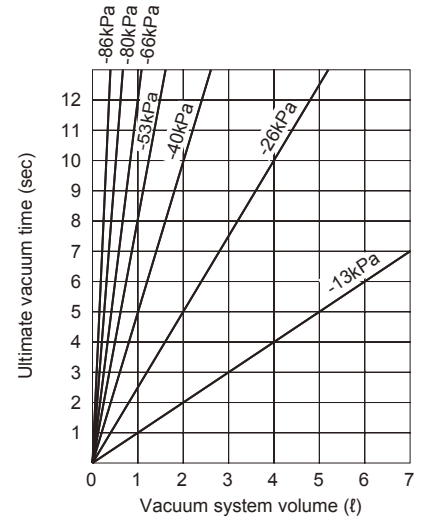
● VSH-H05, VSB-H05



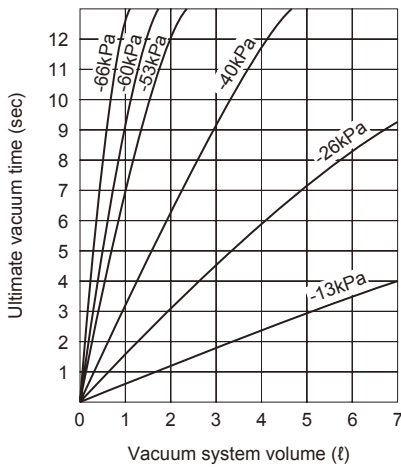
● VSH-L05, VSB-L05



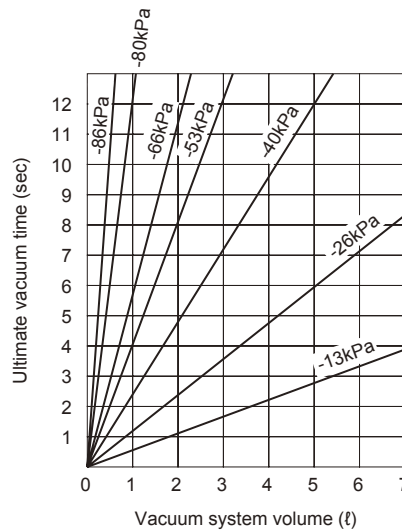
● VSU-H05



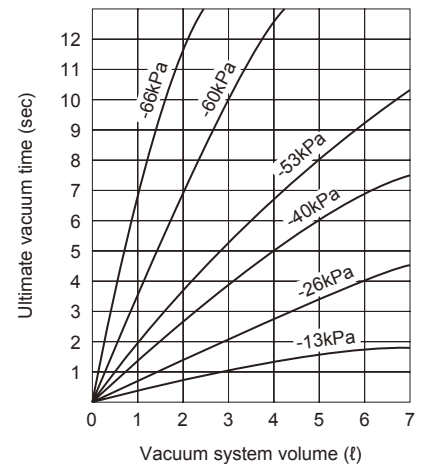
● VSU-L05



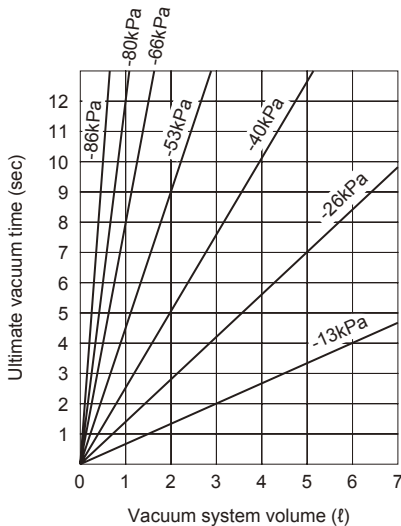
● VSU-H07



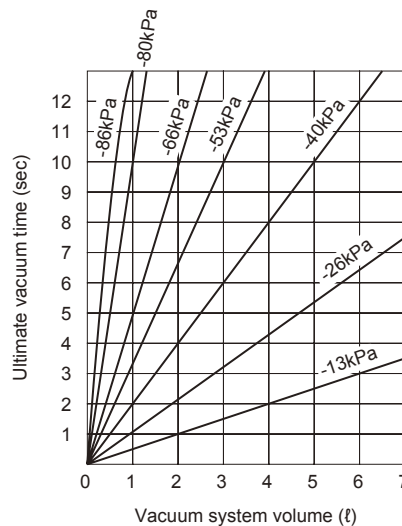
● VSU-L07



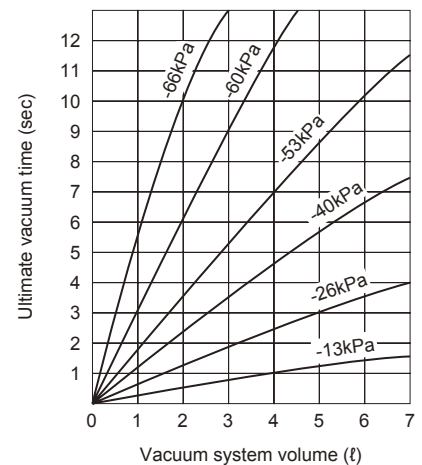
● VSU-E07



● VSH-H07, VSB-H07



● VSH-L07, VSB-L07



Ejector system

VSJ

VSH-VSU
VSB-VSC

VSG

VSK
VSKM

VSJ
VSJM

VSX
VSXM

VSQ

VSZM

VSH/VSU/VSB/VSC Series

Vacuum characteristics

(References) Ultimate vacuum time (supply pressure H type: 0.5MPa, L type: 0.5MPa, E type: 0.3 to 0.5MPa)

* Values differ with vacuum system piping shape, etc., so use these valves for reference.

● VSH-E07, VSB-E07

● VSH-H10, VSB-H10

● VSH-L10, VSB-L10

Ejector system

VSU

VSH-VSU
VSB-VSC

VSG

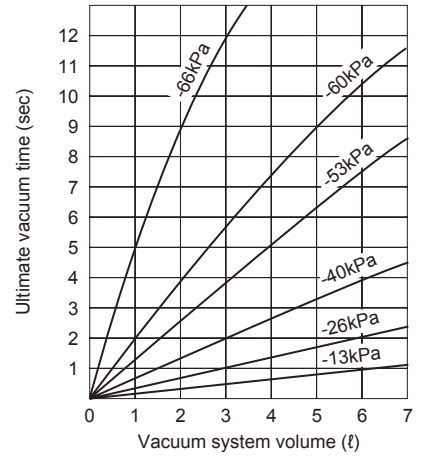
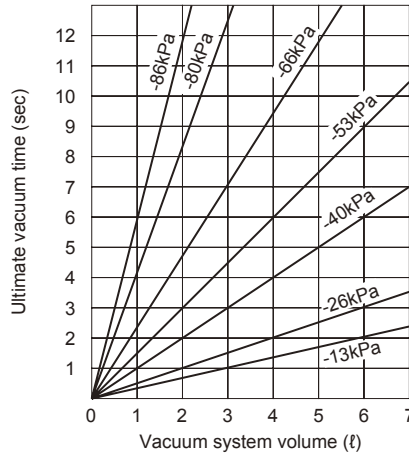
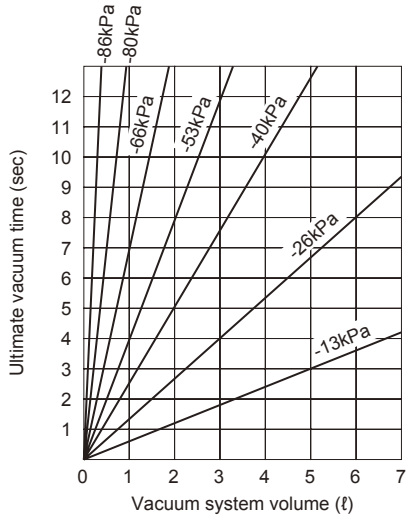
VSK
VSKM

VSJ
VSJM

VSX
VSXM

VSQ

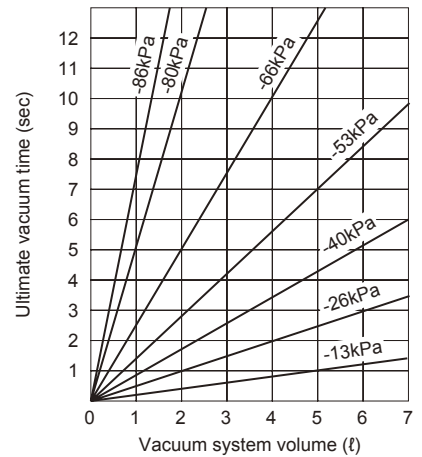
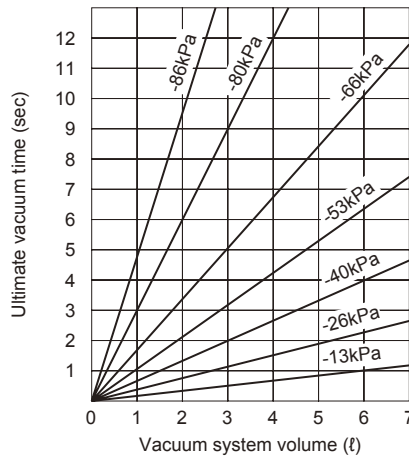
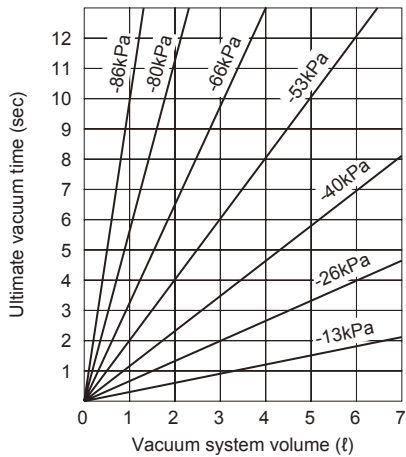
VSZM



● VSH-E10

● VSH-H12, VSB-H12

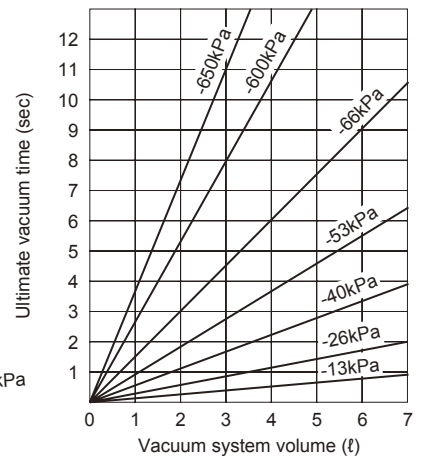
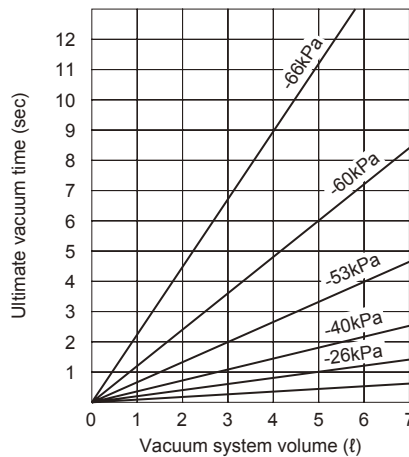
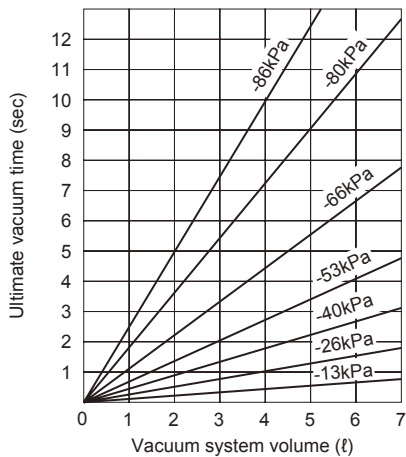
● VSH-E12, VSB-E12



● VSH-H15

● VSH-L15

● VSH-E15



VSH/VSU/VSB/VSC Series

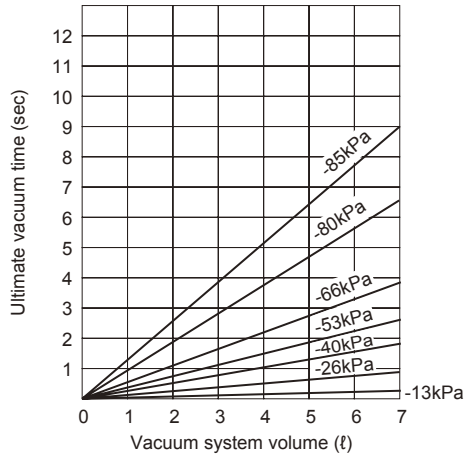
Vacuum characteristics / internal structure and parts list

Vacuum characteristics

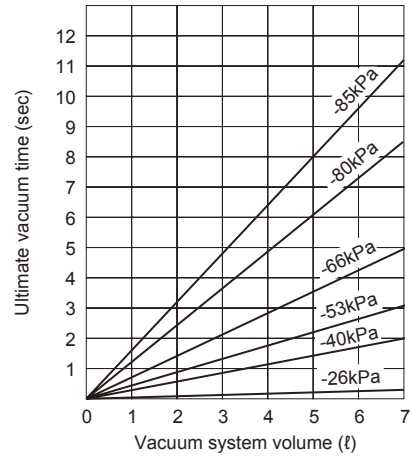
(References) Ultimate vacuum time (supply pressure H type: 0.5MPa, L type: 0.5MPa, E type: 0.3 to 0.5MPa)

* Values differ with vacuum system piping shape, etc., so use these valves for reference.

● VSH-H20, VSC-H20

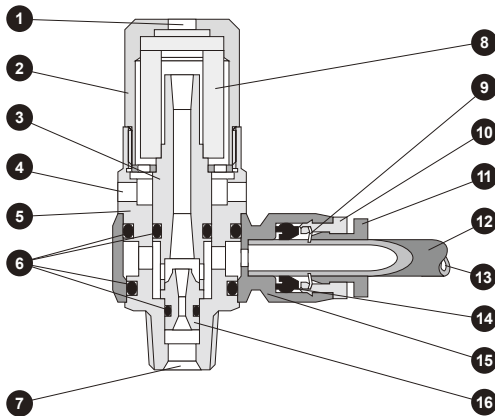


● VSH-E20, VSC-E20



Internal structure and parts list

● VSH Series



No.	Parts name	Material	Remarks
1	Exhaust port (EX)		
2	Cap	Aluminum	
3	Diffuser	Brass	Electroless nickel plating
4	Exhaust port (EX)		
5	Metal	Brass	Electroless nickel plating
6	O ring	Nitrile rubber	
7	Air supply port (P)		
8	Silencer element	Poly-vinyl formal	
9	Lock jaw	Stainless steel	
10	Guide ring	Brass	Electroless nickel plating
11	Release ring	Polyacetal	
12	Tube		
13	Vacuum port (V)		
14	Rubber sleeve	Nitrile rubber	
15	Resin	PBT	
16	Nozzle	Brass	Electroless nickel plating

Ejector system

VSY

VSH-VSU
VSB-VSC

VSG

VSK
VSKM

VSJ
VSJM

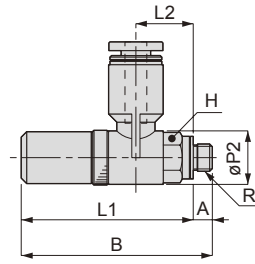
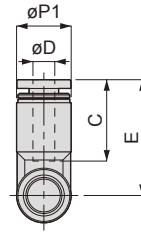
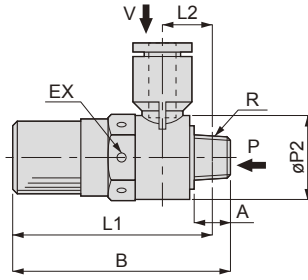
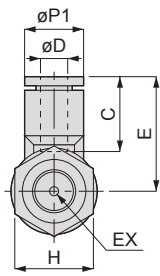
VSX
VSXM

VSQ

VSZM

Dimensions

● VSH-*-*S (atmospheric release with silencer)



Meter screw type

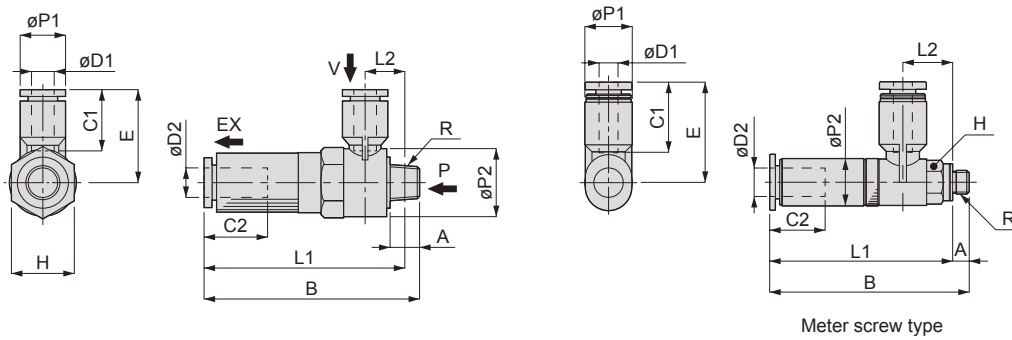
Unit: mm

	Model no.	O.D. ϕD	R	A	B	L1	L2	$\phi P1$	$\phi P2$	C	E	Opposite side H	Nozzle diameter (mm)	Working pressure (MPa)	Ultimate vacuum (-kPa)	Suction flow ($l/min.$ (ANR))	Air consumption ($l/min.$ (ANR))	Weight (g)							
VSY	VSH-H 05-4M5S	4	M5 x 0.8	3	34.5	31.5	10.5	10	9.8	14.9	21.2	8	0.5	0.5	90	7	11.5	13							
	VSH-H 05-66AS	6	R1/8	8	48	44	11.4	12.4	18.4	17	25.5	17	0.7			13	23	37							
	VSH-H 07-66AS												1			28	46	36.5							
	VSH-H 10-66AS												1.2			38	70	36.5							
	VSH-H 12-66AS												1			28	46	38							
	VSH-H 10-86AS	8	R1/8	8	48	44	12.4	14.4	22	18.1	28.4	22	1.5			93	38	70	37.5						
	VSH-H 12-86AS																			1.2	38	70	37.5		
	VSB-VSC	VSH-H 15-88AS	10	R1/4	11	71.5	65.5	13.5	17.6	28	20.2	31.2	24			2.0	0.5	93	63	100	77				
		VSH-H 15-108AS						14.8													79.5				
		VSH-H 20-108AS						15.1													104				
VSH-H 20-128AS		16.8						21						28	23.4						36.4	24	2.0	104	200
VSG	VSH-L 05-4M5S	4	M5 x 0.8	3	34.5	31.5	10.5	10	9.8	14.9	21.2	8	0.5	0.5	66	12	11.5	13							
	VSH-L 05-66AS	6	R1/8	8	48	44	11.4	12.4	18.4	17	25.5	17	0.7			26	23	37							
	VSH-L 07-66AS												1			42	46	36							
	VSH-L 10-66AS												0.7			26	23	38.5							
	VSH-L 12-66AS												1			42	46	37.5							
	VSH-L 10-86AS	8	R1/8	8	48	44	12.4	14.4	22	18.1	28.4	22	1.5			96	95	100	77.5						
	VSH-L 15-88AS																			13.5	75				
	VSH-L 15-108AS	14.8	77.5																						
	VSH-L 15-128AS	16.5	81.5																						
	VSH-L 20-108AS	15.1	174																						
VSH-L 20-128AS	16.8	21	28	20.2	33.6	24	2.0	174	200	116															
VSQ	VSH-E 07-66AS	6	R1/8	8	48	44	11.4	12.4	18.4	17	25.5	17	0.7	0.35	92	10.5	17	36.5							
	VSH-E 10-66AS												1			21	34	37							
	VSH-E 12-66AS												1.2			27	47	36.5							
	VSH-E 10-86AS												1			21	34	38.5							
	VSH-E 12-86AS	8	R1/8	8	48	44	12.4	14.4	22	18.1	28.4	22	1.5	92	42	70	80								
	VSH-E 15-88AS																	13.5	78						
VSH-E 15-108AS	14.8	80																							
VSZM	VSH-E 20-108AS	10	R1/4	11	71.5	65.5	15.1	17.6	28	20.2	33.6	24	2.0	0.35	92	82	150	116							
	VSH-E 20-128AS	12																	16.8	21	28	23.4	36.4	24	2.0

Note: L1 and L2 dimensions for tapered screws are reference dimensions applicable after screw tightening.

Dimensions

● VSH-**-*J (common exhaust)



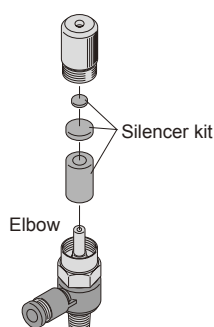
Unit: mm

Model no.	O.D. $\phi D1$	O.D. $\phi D2$	R	A	B	L1	L2	$\phi P1$	$\phi P2$	C1	C2	E	Opposite side H	Nozzle diameter (mm)	Working pressure (MPa)	Ultimate vacuum (-kPa)	Suction flow (l/min, ANR)	Air consumption (l/min, ANR)	Weight (g)	
VSH-H 05-4M5J	4	6	M5 x 0.8	3	41.8	38.8	10.5	10	10	14.9	11.9	21.2	8	0.5		90	7	11.5	18	
VSH-H 05-66AJ	6	8	R1/8	8	58.4	54.4	11.4	12.4	18.4	17	18.2	25.5	17	0.7	0.5	93	13	23	44.5	
VSH-H 07-66AJ							1							28			46	44.5		
VSH-H 10-66AJ							1.2							38			70	44		
VSH-H 12-66AJ							1							28			46	45.5		
VSH-H 10-86AJ	8						12.4	14.4	18.1	18.1	28.4	17	1.2	0.5	93	38	70	46		
VSH-H 12-86AJ							1.2						38			70	46			
VSH-H 15-88AJ	10	12	R1/4	11	76.9	70.9	13.5	17.6	22	20.2	23.3	28.9	22	1.5		93	63	100	92	
VSH-H 15-108AJ							14.8												31.2	94.5
VSH-H 20-108AJ							15.1												33.6	
VSH-H 20-128AJ	12				89.4	83.3	16.8	21	28	23.4		36.4	24	2.0		104	200	128		
VSH-L 05-4M5J	4	6	M5 x 0.8	3	41.8	38.8	10.5	10	10	14.9	11.9	21.2	8	0.5		66	12	11.5	18	
VSH-L 05-66AJ	6	8	R1/8	8	58.4	54.4	11.4	12.4	18.4	17	18.2	25.5	17	0.7	0.5	66	26	23	45	
VSH-L 07-66AJ							1							42			46	44		
VSH-L 10-66AJ							0.7							26			23	46		
VSH-L 07-86AJ							1							42			46	45		
VSH-L 10-86AJ	8						12.4	14.4	18.1	18.1	28.4	17	1.2	0.5	66	42	46	45		
VSH-L 15-88AJ							1						42			46	45			
VSH-L 15-108AJ	10	12	R1/4	11	76.9	70.9	13.5	17.6	22	20.2	23.3	28.9	22	1.5		66	95	100	89.5	
VSH-L 15-128AJ							14.8												31.2	93
VSH-L 20-108AJ							16.5												36.9	96.5
VSH-L 20-128AJ	12				89.4	83.3	15.1	17.6	28	20.2		33.6	24	2.0		174	200	128		
VSH-E 07-66AJ	6	8	R1/8	8	58.4	54.4	11.4	12.4	18.4	17	18.2	25.5	17	0.7	0.35	92	10.5	17	45	
VSH-E 10-66AJ							1							21			34	44.5		
VSH-E 12-66AJ							1.2							27			47			
VSH-E 10-86AJ							1							21			34	46.5		
VSH-E 12-86AJ	8						12.4	14.4	18.1	18.1	28.4	17	1.2	0.35	92	27	47	45.5		
VSH-E 15-88AJ							1						21			34	46.5			
VSH-E 15-108AJ	10	12	R1/4	11	76.9	70.9	13.5	17.6	22	20.2	23.3	28.9	22	1.5		92	42	70	92	
VSH-E 15-128AJ							14.8												31.2	95.5
VSH-E 20-108AJ							15.1												33.6	
VSH-E 20-128AJ	12				89.4	83.3	16.8	21	28	23.4		36.4	24	2.0		82	150	128		

Note: L1 and L2 dimensions for tapered screws are reference dimensions applicable after screw tightening.

Model no.

● Silencer kit



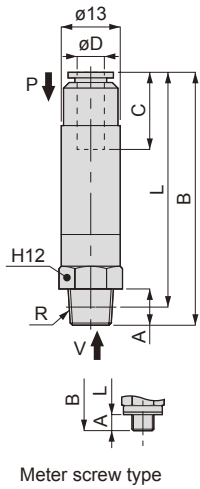
Silencer kit model no.	Vacuum ejector model no.
VSH-M5-SK	VSH-**-*M5S
VSH-6A-SK	VSH-**-*6AS
VSH-8A-SK	VSH-**-*8AS

Note: For VSH-*20-***, VSC-20-SK (silencer kit for VSC-20) is used.

Dimensions

● VSU-*-*S (atmospheric release with silencer)

Unit: mm

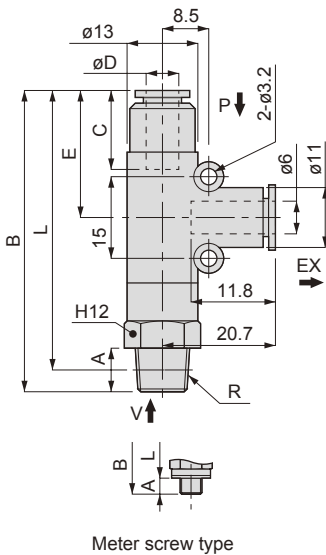


Model no.	O.D. ØD	R	A	B	L	C	Nozzle diameter (mm)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)								
VSU-H 05-M54S	4	M5 x 0.8	3	50.3	47.3	10.9	0.5	90	7	11.5	17.5								
VSU-H 05-M56S	6			51.3	48.3	11.7					17								
VSU-H 05-6A4S	4	R1/8	8	54.3	50.3	10.9					0.7	92	12.5	23	20				
VSU-H 05-6A6S	6			55.3	51.3	11.7									19.5				
VSU-H 07-M54S	4	M5 x 0.8	3	57.1	54.1	10.9									0.5	66	12	11.5	19
VSU-H 07-M56S	6			57.8	54.8	11.7													18
VSU-H 07-6A4S	4	R1/8	8	61.1	57.1	10.9	0.7	92	20	23									21
VSU-H 07-6A6S	6			61.8	57.8	11.7													20.5
VSU-L 05-M54S	4	M5 x 0.8	3	50.3	47.3	10.9					0.5	66	12	11.5					17.5
VSU-L 05-M56S	6			51.3	48.3	11.7													17
VSU-L 05-6A4S	4	R1/8	8	54.3	50.3	10.9									0.7	92	22	23	20
VSU-L 05-6A6S	6			55.3	51.3	11.7													19.5
VSU-L 07-M54S	4	M5 x 0.8	3	57.1	54.1	10.9	0.7	90	10	17									19
VSU-L 07-M56S	6			57.8	54.8	11.7													18
VSU-L 07-6A4S	4	R1/8	8	61.1	57.1	10.9					0.7	90	10	17					21.5
VSU-L 07-6A6S	6			61.8	57.8	11.7													20.5
VSU-E 07-M54S	4	M5 x 0.8	3	57.1	54.1	10.9									0.7	90	10	17	19
VSU-E 07-M56S	6			57.8	54.8	11.7													19
VSU-E 07-6A4S	4	R1/8	8	61.1	57.1	10.9	0.7	90	10	17									21.5
VSU-E 07-6A6S	6			61.8	57.8	11.7													20.5

Note 1: L dimensions for tapered screws are reference dimensions applicable after screw tightening.
 Note 2: M5 screw's opposite hexagon side is knurled. H12 applies to 6A (R1/8) screw.

● VSU-*-*J (common exhaust)

Unit: mm



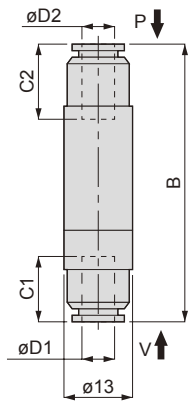
Model no.	O.D. ØD	R	A	B	L	C	E	Nozzle diameter (mm)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)								
VSU-H 05-M54J	4	M5 x 0.8	3	50.3	47.3	11.2	22.3	0.5	90	7	11.5	20								
VSU-H 05-M56J	6			51.3	48.3	11.9	23.3					19.5								
VSU-H 05-6A4J	4	R1/8	8	54.3	50.3	11.2	22.3					0.7	92	12.5	23	22.5				
VSU-H 05-6A6J	6			55.3	51.3	11.9	23.3									22				
VSU-H 07-M54J	4	M5 x 0.8	3	57.1	54.1	11.2	29.1									0.5	66	12	11.5	21
VSU-H 07-M56J	6			57.8	54.8	11.9	29.8													20.5
VSU-H 07-6A4J	4	R1/8	8	61.1	57.1	11.2	29.1	0.7	92	20	23									23.5
VSU-H 07-6A6J	6			61.8	57.8	11.9	29.8													23
VSU-L 05-M54J	4	M5 x 0.8	3	50.3	47.3	11.2	22.3					0.5	66	12	11.5					19.5
VSU-L 05-M56J	6			51.3	48.3	11.9	23.3													22
VSU-L 05-6A4J	4	R1/8	8	54.3	50.3	11.2	22.3									0.7	92	22	23	21.5
VSU-L 05-6A6J	6			55.3	51.3	11.9	23.3													22.5
VSU-L 07-M54J	4	M5 x 0.8	3	57.1	54.1	11.2	29.1	0.7	90	10	17									20
VSU-L 07-M56J	6			57.8	54.8	11.9	29.8													20
VSU-L 07-6A4J	4	R1/8	8	61.1	57.1	11.2	29.1					0.7	90	10	17					23
VSU-L 07-6A6J	6			61.8	57.8	11.9	29.8													22.5
VSU-E 07-M54J	4	M5 x 0.8	3	57.1	54.1	11.2	29.1									0.7	90	10	17	21.5
VSU-E 07-M56J	6			57.8	54.8	11.9	29.8													20.5
VSU-E 07-6A4J	4	R1/8	8	61.1	57.1	11.2	29.1	0.7	90	10	17									23.5
VSU-E 07-6A6J	6			61.8	57.8	11.9	29.8													23

Note 1: L dimensions for tapered screws are reference dimensions applicable after screw tightening.
 Note 2: M5 screw's opposite hexagon side is knurled. H12 applies to 6A (R1/8) screw.

Dimensions

● VSU-*-*S (atmospheric release with elbow union, silencer)

Unit: mm



Model no.	O.D. ØD1	O.D. ØD2	B	C1	C2	Nozzle diameter (mm)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)								
VSU-H 05-44S	4	4	49.9	11.2	11.2	0.5	90	7	11.5	18.5								
VSU-H 05-46S		6	50.9		11.9													
VSU-H 05-64S	6	4	50.6	11.9	11.2					0.7	92	12.5	23	18				
VSU-H 05-66S		6	51.6		11.9									17.5				
VSU-H 07-44S	4	4	56.7	11.2	11.2									0.7	92	12.5	23	20
VSU-H 07-46S		6	57.4		11.9													19.5
VSU-H 07-64S	6	4	57.4	11.9	11.2	0.7	92	12.5	23									19
VSU-H 07-66S		6	58.1		11.9													18.5
VSU-L 05-44S	4	4	49.9	11.2	11.2					0.5	66	12	11.5					18.5
VSU-L 05-46S		6	50.9		11.9													
VSU-L 05-64S	6	4	50.6	11.9	11.2									0.7	66	20	23	20
VSU-L 05-66S		6	51.6		11.9													19
VSU-L 07-44S	4	4	56.7	11.2	11.2	0.7	66	20	23									19
VSU-L 07-46S		6	57.4		11.9													18.5
VSU-L 07-64S	6	4	57.4	11.9	11.2					0.7	66	22	23					17.5
VSU-L 07-66S		6	58.1		11.9													20.5
VSU-E 07-44S	4	4	56.7	11.2	11.2									0.7	90	10	17	19.5
VSU-E 07-46S		6	57.4		11.9													18.5
VSU-E 07-64S	6	4	57.4	11.9	11.2	0.7	90	10	17									19
VSU-E 07-66S		6	58.1		11.9													19

Ejector system

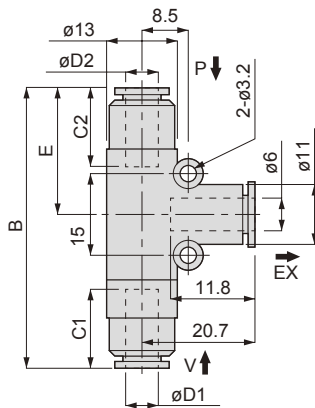
VSU

VSH-VSU
VSB-VSC

VSG

● VSU-*-*J (elbow union, common exhaust)

Unit: mm



Model no.	O.D. ØD1	O.D. ØD2	B	C1	C2	E	Nozzle diameter (mm)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)								
VSU-H 05-44J	4	4	49.9	11.2	11.2	22.3	0.5	90	7	11.5	21								
VSU-H 05-46J		6	50.9		23.3	20.5													
VSU-H 05-64J	6	4	50.6	11.9	11.2	22.3					0.7	92	12.5	23	20				
VSU-H 05-66J		6	51.6		23.3	19.5													
VSU-H 07-44J	4	4	56.7	11.2	11.2	29.1									0.7	92	12.5	23	22.5
VSU-H 07-46J		6	57.4		29.8	21.5													
VSU-H 07-64J	6	4	57.4	11.9	11.2	29.1	0.7	92	12.5	23									20.5
VSU-H 07-66J		6	58.1		29.8	20.5													
VSU-L 05-44J	4	4	49.9	11.2	11.2	22.3					0.5	66	12	11.5					21
VSU-L 05-46J		6	50.9		23.3	20.5													
VSU-L 05-64J	6	4	50.6	11.9	11.2	22.3									0.7	66	20	23	20
VSU-L 05-66J		6	51.6		23.3	19.5													
VSU-L 07-44J	4	4	56.7	11.2	11.2	29.1	0.7	66	20	23									22
VSU-L 07-46J		6	57.4		29.8	22													
VSU-L 07-64J	6	4	57.4	11.9	11.2	29.1					0.7	66	22	23					21.5
VSU-L 07-66J		6	58.1		29.8	20.5													
VSU-E 07-44J	4	4	56.7	11.2	11.2	29.1									0.7	90	10	17	22
VSU-E 07-46J		6	57.4		29.8	21.5													
VSU-E 07-64J	6	4	57.4	11.9	11.2	29.1	0.7	90	10	17									20.5
VSU-E 07-66J		6	58.1		29.8	20.5													

VSK
VSKM

VSJ
VSJM

VSX
VSXM

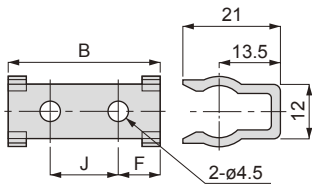
VSQ

VSZM

Dimensions

● VSU fixing bracket

Unit: mm



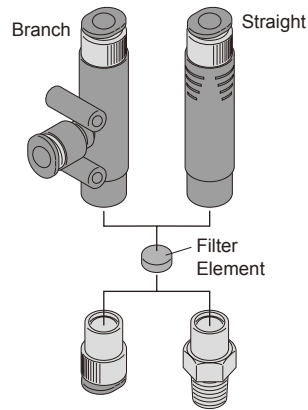
Model no.	B	F	J	Weight (g)
VSU-05-B	33.2	9	15	2
VSU-07-B	39.2	10	20	2

Note: VSU-05-B is for 0.5mm nozzle diameters and VSU-07-B is for 0.7mm nozzle diameters.

Model no.

● Filter element

VSU-E



Ejector system

VSU

VSH-VSU
VSB-VSC

VSG

VSK
VSKM

VSJ
VSJM

V SX
V SXM

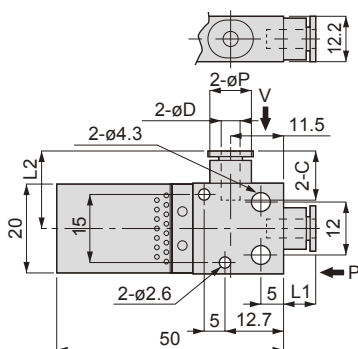
V SQ

V SZM

Dimensions

● VSB-*- (atmospheric release)

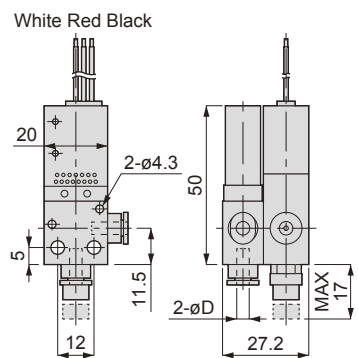
Unit: mm



Model no.	O.D. ϕD	ϕP	C	L1	L2	Nozzle diameter (mm)	Working pressure (MPa)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)
VSB-H 05-44	4	9	11.3	6.9	16.9	0.5	0.5	90	7	11.5	18
VSB-H 07-66	6	10.6	11.8	7.2	17.2	0.7	0.5	93	13	23	18.5
VSB-H 10-66						1			28	46	
VSB-H 12-66						1.2			38	70	
VSB-L 05-44	4	9	11.3	6.9	16.9	0.5	0.45	66	12	11.5	18
VSB-L 07-66	6	10.6	11.8	7.2	17.2	0.7			26	23	18.5
VSB-L 10-66						1			42	46	17.5
VSB-E 07-66	6	10.6	11.8	7.2	17.2	0.7	0.4	92	10.5	17	18.5
VSB-E 10-66						1			21	34	
VSB-E 12-66						1.2			27	47	

● VSB-*-V (with vacuum switch)

Unit: mm

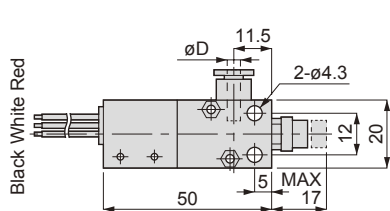


Model no.	O.D. ϕD	Nozzle diameter (mm)	Working pressure (MPa)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)
VSB-H 05-44V	4	0.5	0.5	90	7	11.5	46.5
VSB-H 07-66V	6	0.7	0.5	93	13	23	46
VSB-H 10-66V		1			28	46	47
VSB-H 12-66V		1.2			38	70	47.5
VSB-L 05-44V	4	0.5	0.45	66	12	11.5	46.5
VSB-L 07-66V	6	0.7			26	23	48
VSB-L 10-66V		1			42	46	46.5
VSB-E 07-66V	6	0.7	0.4	92	10.5	17	48.5
VSB-E 10-66V		1			21	34	
VSB-E 12-66V		1.2			27	47	

Note: Lead wire White: COMMON
Red: N.C.
Black: N.O.

● VSB-VUSM-* Discrete mechanical vacuum switch

Unit: mm

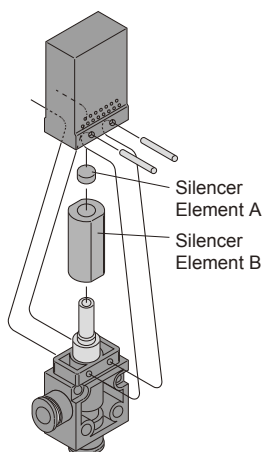


Model no.	Tube outer diameter		Weight (g)
	ϕD		
VSB-VUSM-4	4		29
VSB-VUSM-6	6		29

Note: Lead wire White: COMMON
Red: N.C.
Black: N.O.

Model no.

● Silencer element



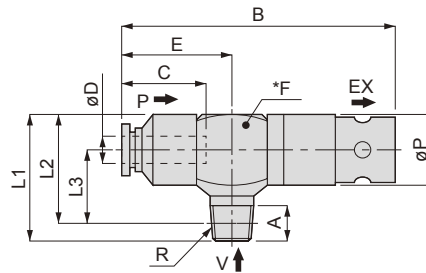
Element A model no.	Element B model no.
VSB-EA	VSB-EB

Note: VSB / VSG / VSJ common part

Note: VSB and VSG common part

Dimensions

● VSC-*-*S (atmospheric release with silencer)



Unit: mm

Model no.	O.D. øD	R	A	L1	L2	L3	øP	B	E	C	*F	Nozzle diameter (mm)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)			
VSC-H 07-6A6S	6	R1/8	8	28	24	16	16	62.5	24.5	17	16	0.7	93	13	23	31.5			
VSC-H 07-6A8S	8							65.2	27.2	18.2		1							
VSC-H 10-6A6S	6							62.5	24.5	17		1.2							
VSC-H 10-6A8S	8							65.2	27.2	18.2									
VSC-H 12-6A6S	6							62.5	24.5	17									
VSC-H 12-6A8S	8							65.2	27.2	18.2									
VSC-H 15-8A8S	8	R1/4	11	39	33	21	24	104.2	29.2	18.2	22	1.5	63	100	87				
VSC-H 15-10A8S	8	R3/8	12		32.7	20.7		104.2	29.2	18.2									
VSC-H 15-8A10S	10	R1/4	11		33	21		105.9	30.9	20.7									
VSC-H 15-10A10S		R3/8	12		32.7	20.7		105.9	30.9	20.7									
VSC-H 20-8A8S	8	R1/4	11		33	21		104.2	29.2	18.2		2				93	110	200	91
VSC-H 20-10A8S	8	R3/8	12		32.7	20.7		104.2	29.2	18.2									
VSC-H 20-8A10S	10	R1/4	11	33	21	105.9	30.9	20.7	2	93	110	200	92.5						
VSC-H 20-10A10S		R3/8	12	32.7	20.7	105.9	30.9	20.7											
VSC-L 07-6A6S	6	R1/8	8	28	24	16	16	62.5	24.5	17	16	0.7	66	26	23	31.5			
VSC-L 07-6A8S	8							65.2	27.2	18.2		1							
VSC-L 10-6A6S	6							62.5	24.5	17									
VSC-L 10-6A8S	8							65.2	27.2	18.2									
VSC-L 15-8A8S	8	R1/4	11	39	33	21	24	104.2	29.2	18.2	22	1.5	95	100	85				
VSC-L 15-10A8S	8	R3/8	12		32.7	20.7		104.2	29.2	18.2									
VSC-L 15-8A10S	10	R1/4	11		33	21		105.9	30.9	20.7									
VSC-L 15-10A10S		R3/8	12		32.7	20.7		105.9	30.9	20.7									
VSC-L 20-8A8S	8	R1/4	11		33	21		104.2	29.2	18.2		2				93	180	200	87
VSC-L 20-10A8S	8	R3/8	12		32.7	20.7		104.2	29.2	18.2									
VSC-L 20-8A10S	10	R1/4	11	33	21	105.9	30.9	20.7	2	93	180	200	88						
VSC-L 20-10A10S		R3/8	12	32.7	20.7	105.9	30.9	20.7											
VSC-E 07-6A6S	6	R1/8	8	28	24	16	16	62.5	24.5	17	16	0.7	92	10.5	17	31.5			
VSC-E 07-6A8S	8							65.2	27.2	18.2		1							
VSC-E 10-6A6S	6							62.5	24.5	17									
VSC-E 10-6A8S	8							65.2	27.2	18.2									
VSC-E 12-6A6S	6							62.5	24.5	17		1.2							
VSC-E 12-6A8S	8							65.2	27.2	18.2									
VSC-E 15-8A8S	8	R1/4	11	39	33	21	24	104.2	29.2	18.2	22	1.5	42	70	87.5				
VSC-E 15-10A8S	8	R3/8	12		32.7	20.7		104.2	29.2	18.2									
VSC-E 15-8A10S	10	R1/4	11		33	21		105.9	30.9	20.7									
VSC-E 15-10A10S		R3/8	12		32.7	20.7		105.9	30.9	20.7									
VSC-E 20-8A8S	8	R1/4	11		33	21		104.2	29.2	18.2		2				93	84	150	92.5
VSC-E 20-10A8S	8	R3/8	12		32.7	20.7		104.2	29.2	18.2									
VSC-E 20-8A10S	10	R1/4	11	33	21	105.9	30.9	20.7	2	93	84	150	94						
VSC-E 20-10A10S		R3/8	12	32.7	20.7	105.9	30.9	20.7											

Note: L1, L2 and L3 dimensions are references applicable after screw tightening.

Ejector system

VSY

VSH-VSU
VSB-VSC

VSG

VSK
VSKM

VSJ
VSJM

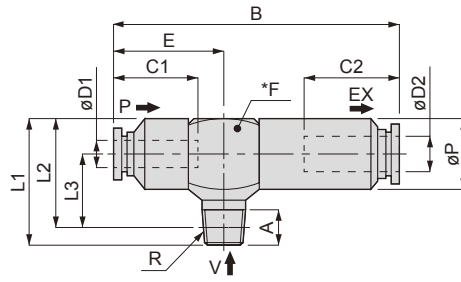
VSX
VSXM

VSQ

VSZM

Dimensions

● VSC-*-*J (common exhaust)



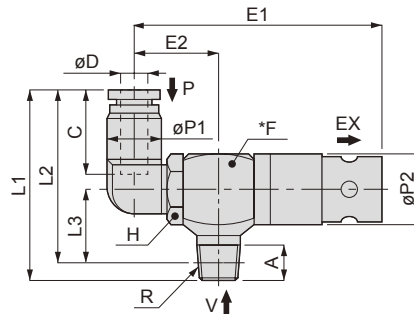
Unit: mm

Model no.	O.D. øD1	O.D. øD2	R	A	L1	L2	L3	øP	B	E	C1	C2	*F	Nozzle diameter (mm)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)					
VSC-H 07-6A6J	6	8	R1/8	8	28	24	16	16	64.7	24.5	17	18.2	16	0.7	93	13	23	36.5					
VSC-H 07-6A8J	8								67.4	27.2	18.2												
VSC-H 10-6A6J	6								64.7	24.5	17												
VSC-H 10-6A8J	8								67.4	27.2	18.2												
VSC-H 12-6A6J	6								64.7	24.5	17												
VSC-H 12-6A8J	8								67.4	27.2	18.2												
VSC-H 15-8A8J	8	12	R1/4	11	38	32	21	22	94	29.2	18.2	23.3	22	1.5	93	63	100	98.5					
VSC-H 15-10A8J	R3/8		12	31.7		20.7	99.5																
VSC-H 15-8A10J	R1/4		11	32		21	100.5																
VSC-H 15-10A10J	R3/8		12	31.7		20.7	103																
VSC-H 20-8A8J	8		R1/4	11		32	21		94	29.2	18.2							104					
VSC-H 20-10A8J	R3/8		12	31.7		20.7	95.7		30.9	20.7	105												
VSC-H 20-8A10J	10	R1/4	11	32	21	94	29.2	18.2	104														
VSC-H 20-10A10J	10	R3/8	12	31.7	20.7	95.7	30.9	20.7	105														
VSC-L 07-6A6J	6	8	R1/8	8	28	24	16	16	64.7	24.5	17	18.2	16	0.7	66	26	23	36.5					
VSC-L 07-6A8J	8								67.4	27.2	18.2												
VSC-L 10-6A6J	6								64.7	24.5	17												
VSC-L 10-6A8J	8								67.4	27.2	18.2												
VSC-L 15-8A8J	8								R1/4	11	32								21	94	29.2	18.2	97
VSC-L 15-10A8J	R3/8								12	31.7	20.7								98				
VSC-L 15-8A10J	10	R1/4	11	32	21	95.7	30.9	20.7	99														
VSC-L 15-10A10J	R3/8	12	31.7	20.7	100.5																		
VSC-L 20-8A8J	8	R1/4	11	32	21	94	29.2	18.2	98.5														
VSC-L 20-10A8J	R3/8	12	31.7	20.7	99.5																		
VSC-L 20-8A10J	10	R1/4	11	32	21	95.7	30.9	20.7	100														
VSC-L 20-10A10J	10	R3/8	12	31.7	20.7	95.7	30.9	20.7	100.5														
VSC-E 07-6A6J	6	8	R1/8	8	28	24	16	16	64.7	24.5	17	18.2	16	0.7	92	10.5	17	36.5					
VSC-E 07-6A8J	8								67.4	27.2	18.2												
VSC-E 10-6A6J	6								64.7	24.5	17												
VSC-E 10-6A8J	8								67.4	27.2	18.2												
VSC-E 12-6A6J	6								64.7	24.5	17												
VSC-E 12-6A8J	8								67.4	27.2	18.2												
VSC-E 15-8A8J	8	12	R1/4	11	38	32	21	22	94	29.2	18.2	23.3	22	1.5	92	42	70	99.5					
VSC-E 15-10A8J	R3/8		12	31.7		20.7	100.5																
VSC-E 15-8A10J	10		R1/4	11		32	21		95.7	30.9	20.7							101.5					
VSC-E 15-10A10J	R3/8		12	31.7		20.7	104.5																
VSC-E 20-8A8J	8		R1/4	11		32	21		94	29.2	18.2							104.5					
VSC-E 20-10A8J	R3/8		12	31.7		20.7	105.5																
VSC-E 20-8A10J	10	R1/4	11	32	21	95.7	30.9	20.7	105.5														
VSC-E 20-10A10J	10	R3/8	12	31.7	20.7	95.7	30.9	20.7	106.5														

Note: L1, L2 and L3 dimensions are references applicable after screw tightening.

Dimensions

● VSC-*-*S (air supply port elbow type, atmospheric release with silencer)



Unit: mm

Model no.	O.D. øD1	R	A	L1	L2	L3	E1	E2	øP1	øP2	C	Opposite side H	*F	Nozzle diameter (mm)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)										
VSC-H 07-6A6LS	6	R1/8	8	42.8	38.8	16	57.3	19.3	12.5	16	17	14	16	0.7	93	13	23	31.5										
VSC-H 07-6A8LS	8			45.7	41.7		58.3	20.3	14.5		18.1							34										
VSC-H 10-6A6LS	6			42.8	38.8		57.3	19.3	12.5		17							31.5										
VSC-H 10-6A8LS	8			45.7	41.7		58.3	20.3	14.5		18.1							34										
VSC-H 12-6A6LS	6			42.8	38.8		57.3	19.3	12.5		17							31.5										
VSC-H 12-6A8LS	8			45.7	41.7		58.3	20.3	14.5		18.1							34										
VSC-H 15-8A8LS	8	R1/4	11	52.7	46.7	21	98.3	23.3	14.5	18.1	19	22	1.5	93	63	100	85.5											
VSC-H 15-10A8LS	8	R3/8	12	52.7	46.4	20.7	98.3	23.3	14.5	18.1							86.5											
VSC-H 15-8A10LS	10	R1/4	11	56.5	50.5	21	100.8	25.8	17.5	20.2	24	19	22	1.5	93	110	200	90.5										
VSC-H 15-10A10LS	10	R3/8	12	56.5	50.2	20.7	100.8	25.8	17.5	20.2								91.5										
VSC-H 20-8A8LS	8	R1/4	11	52.7	46.7	21	98.3	23.3	14.5	18.1	24	19	22	2	93	110	200	90										
VSC-H 20-10A8LS	8	R3/8	12	52.7	46.4	20.7	98.3	23.3	14.5	18.1								91										
VSC-H 20-8A10LS	10	R1/4	11	56.5	50.5	21	100.8	25.8	17.5	20.2	24	19	22	2	93	110	200	95										
VSC-H 20-10A10LS	10	R3/8	12	56.5	50.2	20.7	100.8	25.8	17.5	20.2								96										
VSC-L 07-6A6LS	6	R1/8	8	42.8	38.8	16	57.3	19.3	12.5	16	17	14	16	0.7	66	26	23	31.5										
VSC-L 07-6A8LS	8			45.7	41.7		58.3	20.3	14.5		18.1							34										
VSC-L 10-6A6LS	6			42.8	38.8		57.3	19.3	12.5		17							31.5										
VSC-L 10-6A8LS	8			45.7	41.7		58.3	20.3	14.5		18.1							34										
VSC-L 15-8A8LS	8			R1/4	11		52.7	46.7	21		98.3							23.3	14.5	18.1	24	19	22	1.5	66	95	100	84
VSC-L 15-10A8LS	8			R3/8	12		52.7	46.4	20.7		98.3							23.3	14.5	18.1								85
VSC-L 15-8A10LS	10	R1/4	11	56.5	50.5	21	100.8	25.8	17.5	20.2	24	19	22	1.5	66	95	100	89										
VSC-L 15-10A10LS	10	R3/8	12	56.5	50.2	20.7	100.8	25.8	17.5	20.2								90										
VSC-L 20-8A8LS	8	R1/4	11	52.7	46.7	21	98.3	23.3	14.5	18.1	24	19	22	2	66	180	200	85.5										
VSC-L 20-10A8LS	8	R3/8	12	52.7	46.4	20.7	98.3	23.3	14.5	18.1								86.5										
VSC-L 20-8A10LS	10	R1/4	11	56.5	50.5	21	100.8	25.8	17.5	20.2	24	19	22	2	66	180	200	90.5										
VSC-L 20-10A10LS	10	R3/8	12	56.5	50.2	20.7	100.8	25.8	17.5	20.2								91.5										
VSC-E 07-6A6LS	6	R1/8	8	42.8	38.8	16	57.3	19.3	12.5	16	17	14	16	0.7	92	10.5	17	31.5										
VSC-E 07-6A8LS	8			45.7	41.7		58.3	20.3	14.5		18.1							34										
VSC-E 10-6A6LS	6			42.8	38.8		57.3	19.3	12.5		17							31.5										
VSC-E 10-6A8LS	8			45.7	41.7		58.3	20.3	14.5		18.1							34										
VSC-E 12-6A6LS	6			42.8	38.8		57.3	19.3	12.5		17							31.5										
VSC-E 12-6A8LS	8			45.7	41.7		58.3	20.3	14.5		18.1							34										
VSC-E 15-8A8LS	8	R1/4	11	52.7	46.7	21	98.3	23.3	14.5	18.1	24	19	22	1.5	92	42	70	86.5										
VSC-E 15-10A8LS	8	R3/8	12	52.7	46.4	20.7	98.3	23.3	14.5	18.1								87.5										
VSC-E 15-8A10LS	10	R1/4	11	56.5	50.5	21	100.8	25.8	17.5	20.2	24	19	22	1.5	92	42	70	91.5										
VSC-E 15-10A10LS	10	R3/8	12	56.5	50.2	20.7	100.8	25.8	17.5	20.2								92.5										
VSC-E 20-8A8LS	8	R1/4	11	52.7	46.7	21	98.3	23.3	14.5	18.1	24	19	22	2	92	84	150	91.5										
VSC-E 20-10A8LS	8	R3/8	12	52.7	46.4	20.7	98.3	23.3	14.5	18.1								92.5										
VSC-E 20-8A10LS	10	R1/4	11	56.5	50.5	21	100.8	25.8	17.5	20.2	24	19	22	2	92	84	150	96.5										
VSC-E 20-10A10LS	10	R3/8	12	56.5	50.2	20.7	100.8	25.8	17.5	20.2								97.5										

Note: L1, L2 and L3 dimensions are references applicable after screw tightening.

Ejector system

VSY

VSH-VSU
VSB-VSC

VSG

VSK
VSKM

VSJ
VSJM

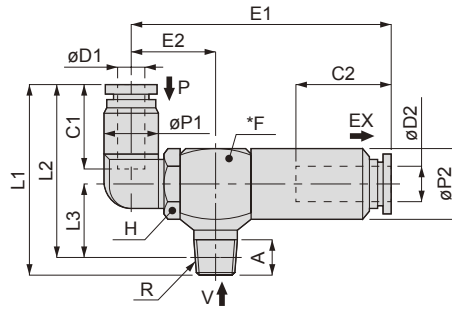
VSX
VSXM

VSQ

VSZM

Dimensions

● VSC-*-*J (air supply port elbow type, common exhaust)



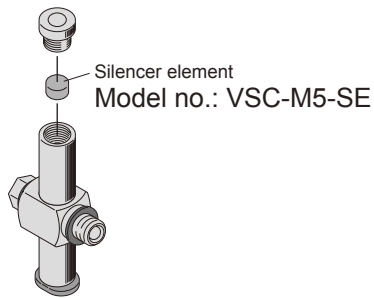
Unit: mm

Model no.	O.D. øD1	O.D. øD2	R	A	L1	L2	L3	E1	E2	øP1	øP2	C1	C2	Opposite side H	*F	Nozzle diameter (mm)	Ultimate vacuum (-kPa)	Suction flow (l/min. (ANR))	Air consumption (l/min. (ANR))	Weight (g)			
VSC-H 07-6A6LJ	6	8	R1/8	8	42.8	38.8	16	59.5	19.3	12.5	16	17	18.2	14	16	0.7	93	13	23	35.5			
VSC-H 07-6A8LJ	8				45.7	41.7		60.5	20.3	14.5		18.2								38			
VSC-H 10-6A6LJ	6				42.8	38.8		59.5	19.3	12.5		17								35.5			
VSC-H 10-6A8LJ	8				45.7	41.7		60.5	20.3	14.5		18.2								38			
VSC-H 12-6A6LJ	6				42.8	38.8		59.5	19.3	12.5		17								35.5			
VSC-H 12-6A8LJ	8				45.7	41.7		60.5	20.3	14.5		17								38			
VSC-H 15-8A8LJ	8	12	R1/4	11	52.7	46.7	21	88.1	23.3	14.5	22	18.2	23.3	19	22	1.5	93	63	100	97.5			
VSC-H 15-10A8LJ	8		R3/8	12	46.4	20.7	20.7	18.2	98.5														
VSC-H 15-8A10LJ	10		R1/4	11	56.5	50.5	21	90.6	25.8	17.5		20.2								102			
VSC-H 15-10A10LJ	10		R3/8	12	50.2	20.7	20.7	22	103														
VSC-H20-8A8LJ	8		R1/4	11	52.7	46.7	21	88.1	23.3	14.5		18.2								101.5			
VSC-H 20-10A8LJ	8		R3/8	12	46.4	20.7	20.7	22	102.5														
VSC-H 20-8A10LJ	10	R1/4	11	56.5	50.5	21	90.6	25.8	17.5	20.2	106.5												
VSC-H 20-10A10LJ	10	R3/8	12	50.2	20.7	20.7	22	107.5															
VSC-L 07-6A6LJ	6	8	R1/8	8	42.8	38.8	16	59.5	19.3	12.5	16	17	18.2	14	16	0.7	93	26	23	35.5			
VSC-L 07-6A8LJ	8				45.7	41.7		60.5	20.3	14.5		18.2								38			
VSC-L 10-6A6LJ	6				42.8	38.8		59.5	19.3	12.5		17								35.5			
VSC-L 10-6A8LJ	8				45.7	41.7		60.5	20.3	14.5		18.2								38			
VSC-L 15-8A8LJ	8				R1/4	11		52.7	46.7	21		88.1								23.3	14.5	18.2	95.5
VSC-L 15-10A8LJ	8				R3/8	12		46.4	20.7	20.7		22								96.5			
VSC-L 15-8A10LJ	10	R1/4	11	56.5	50.5	21	90.6	25.8	17.5	20.2	100.5												
VSC-L 15-10A10LJ	10	R3/8	12	50.2	20.7	20.7	22	101.5															
VSC-L 20-8A8LJ	8	R1/4	11	52.7	46.7	21	88.1	23.3	14.5	18.2	97												
VSC-L 20-10A8LJ	8	R3/8	12	46.4	20.7	20.7	22	98															
VSC-L 20-8A10LJ	10	R1/4	11	56.5	50.5	21	90.6	25.8	17.5	20.2	102												
VSC-L 20-10A10LJ	10	R3/8	12	50.2	20.7	20.7	22	103															
VSC-E 07-6A6LJ	6	8	R1/8	8	42.8	38.8	16	59.5	19.3	12.5	16	17	18.2	14	16	0.7	92	10.5	17	35.5			
VSC-E 07-6A8LJ	8				45.7	41.7		60.5	20.3	14.5		18.2								38			
VSC-E 10-6A6LJ	6				42.8	38.8		59.5	19.3	12.5		17								35.5			
VSC-E 10-6A8LJ	8				45.7	41.7		60.5	20.3	14.5		18.2								38			
VSC-E 12-6A6LJ	6				42.8	38.8		59.5	19.3	12.5		17								35.5			
VSC-E 12-6A8LJ	8				45.7	41.7		60.5	20.3	14.5		17								38			
VSC-E 15-8A8LJ	8	12	R1/4	11	52.7	46.7	21	88.1	23.3	14.5	22	18.2	23.3	19	22	1.5	92	42	70	98			
VSC-E 15-10A8LJ	8		R3/8	12	46.4	20.7	20.7	22	99														
VSC-E 15-8A10LJ	10		R1/4	11	56.5	50.5	21	90.6	25.8	17.5		20.2								103			
VSC-E 15-10A10LJ	10		R3/8	12	50.2	20.7	20.7	22	104														
VSC-E 20-8A8LJ	8		R1/4	11	52.7	46.7	21	88.1	23.3	14.5		18.2								103			
VSC-E 20-10A8LJ	8		R3/8	12	46.4	20.7	20.7	22	104														
VSC-E 20-8A10LJ	10	R1/4	11	56.5	50.5	21	90.6	25.8	17.5	20.2	108												
VSC-E 20-10A10LJ	10	R3/8	12	50.2	20.7	20.7	22	109															

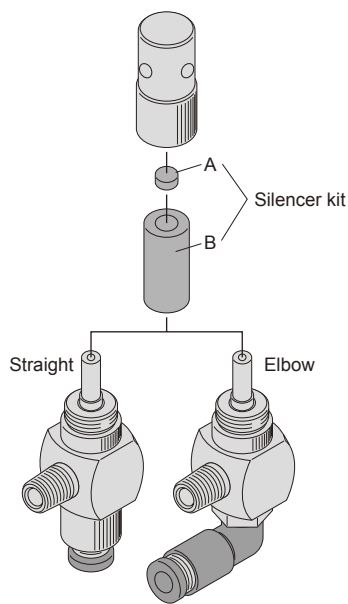
Note: L1, L2 and L3 dimensions are references applicable after screw tightening.

Model no.

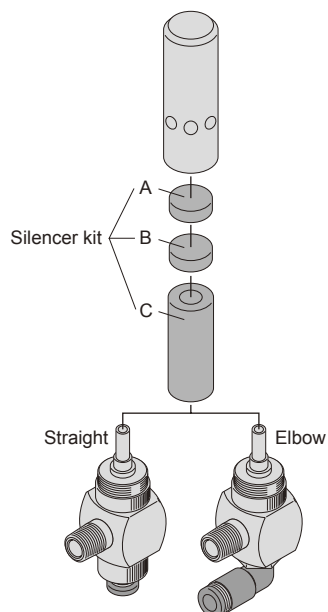
● Silencer element



● Silencer kit
• VSC-*07, 10, 12



• VSC-*15, 20



Silencer kit model no.	Vacuum ejector model no.
VSC-12-SK	VSC-*07-6A* (L) S
	VSC-*10-6A* (L) S
	VSC-*12-6A* (L) S

Silencer kit model no.	Vacuum ejector model no.
VSC-15-SK	VSC-*15-8A8* (L) S
	VSC-*15-10A8* (L) S
	VSC-*15-8A10* (L) S
	VSC-*15-10A10* (L) S
VSC-20-SK	VSC-*20-8A8* (L) S
	VSC-*20-10A8* (L) S
	VSC-*20-8A10* (L) S
	VSC-*20-10A10* (L) S

Ejector system

VSJ

VSH-VSU
VSB-VSC

VSG

VSK
VSKM

VSJ
VSJM

VSX
VSXM

VSQ

VSZM