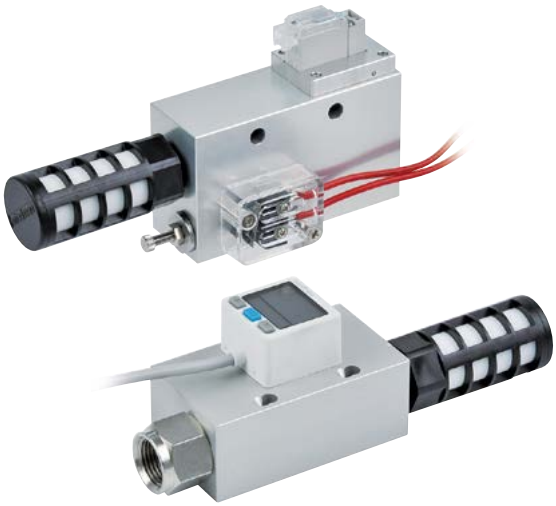
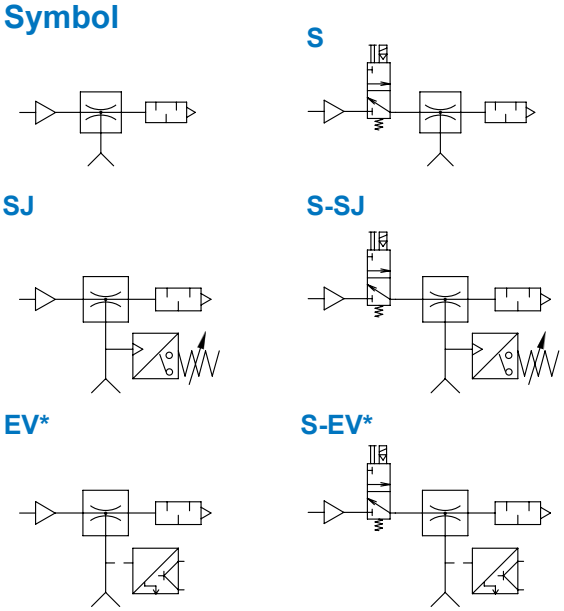
MVVA series

VACUUM GENERATOR



Symbol



Specification

Model		MVVA				
Nozzle dia.	(mm)	1.0	1.5	2.0	2.5	3.0
Port size		Refer to dimensions				
Medium		Air				
Operating pressure range		0.1~0.6 MPa				
Ambient temperature		0~+60°C (No freezing)				
Final vacuum		–91.8 kPa (–690mmHg)				
Suction flow	(ℓ/min)	32	63	130	160	225
Air consumption	(ℓ/min)	76	100	185	265	385
Supply pressure		0.5 MPa				
Lubricator		Not required				
Weight (g)	Standard	84	126	294	672	787
	SJ type	110	158	321	–	–
	EV type	162	197	353	–	–

Model		MVVA-S		
Nozzle dia.	(mm)	1.0	1.5	2.0
Port size		Refer to dimensions		
Medium		Air		
Operating pressure range		0.15~0.6 MPa		
Ambient temperature		0~+60°C (No freezing)		
Final vacuum		–91.8 kPa (–690mmHg)		
Suction flow	(ℓ/min)	21	65	99
Air consumption	(ℓ/min)	50	142	187
Supply pressure		0.5 MPa		
Lubricator		Not required		
Solenoid valve		MVDY-100-3E1-DC24-SR (wire length 500mm)		
Weight (g)	**S** type	117	150	368
	S-SJ type	178	204	400
	S-EV type	186	226	427

* The rated pressure of the generator in the specifications is the value when the generator is activated. Please consider the pressure drop and ensure the specification value; If it does not meet specifications, it may cause noise, unstable characteristics, and malfunction of the sensor at a certain pressure. If this happens, please reset the rated pressure.
* The range of noise will change due to air pressure.

Order example

MVVA – 10S – SJ – G

MODEL

NOZZLE DIA. / TYPE

10	1.0 mm	Blank	Standard
15	1.5 mm		
20	2.0 mm		
25	2.5 mm		
30	3.0 mm		
10	1.0 mm	**S**	Solenoid valve control
15	1.5 mm		
20	2.0 mm		

PORT THREAD
Blank: Rc thread
G: G thread

VACUUM SWITCH TYPE

Blank	Standard type
SJ	Adjustable switch
EV*	Pressure switch

EV1: MP41C-022
EV5: MP41C-042
EV6: MP41C-042-QD**

* SJ, EV* only for nozzle dia. 10~20.
** MOQ required. Please contact us.

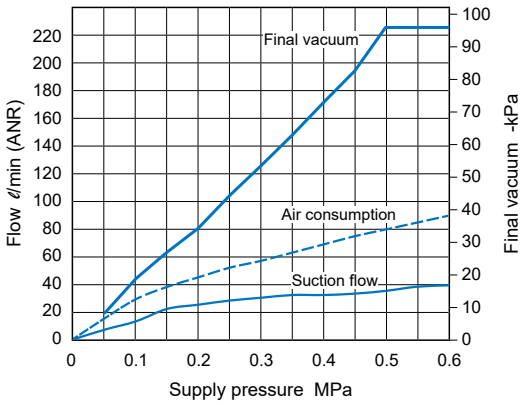
Vacuum switch

Model		SJ	EV*
Medium		Air	
Pressure setting range	kPa (mm Hg)	– 20.0 ~ – 53 (– 150 ~ – 400)	– 100 ~ 100 (– 757.5 ~ 757.5)
Proof pressure	(MPa)	0.5	0.3
Ambient temperature		0~+60°C (No freezing)	–10~+50°C (No freezing)
Ambient humidity		35~+85%RH (No condensation)	
Switch type		Reed switch, N.O	PNP, NPN open collector
Rated voltage		AC125V, AC250V	DC12~24V ±10%
Max load current	(A)	5	0.125
Repeatability		±5.3 kPa	≤± 0.2% F.S. ±1 digit
Hysteresis	(kPa)	4.0~13.3	–
Cable length	(mm)	400	2000

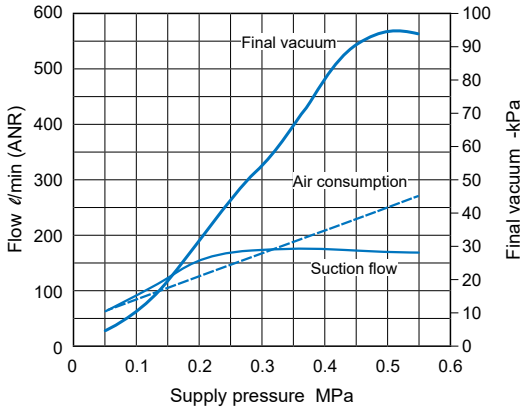
* For the detailed specifications of EV* type (MP41).

Vacuum characteristics

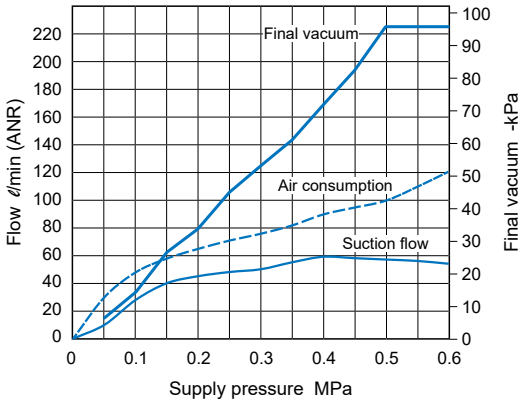
MVVA-10



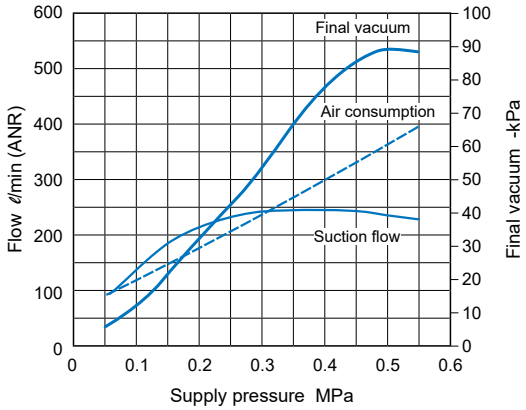
MVVA-25



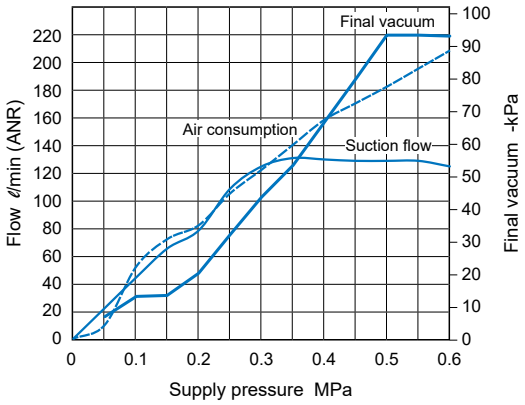
MVVA-15



MVVA-30

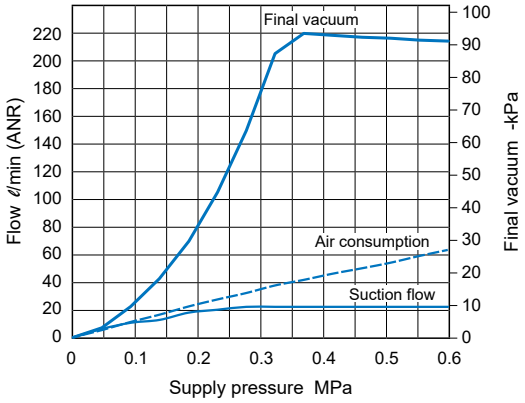


MVVA-20

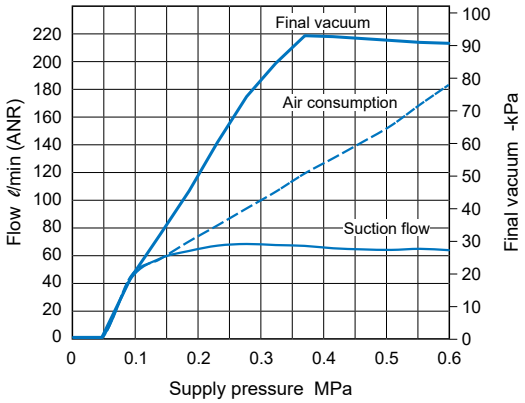


Vacuum characteristics

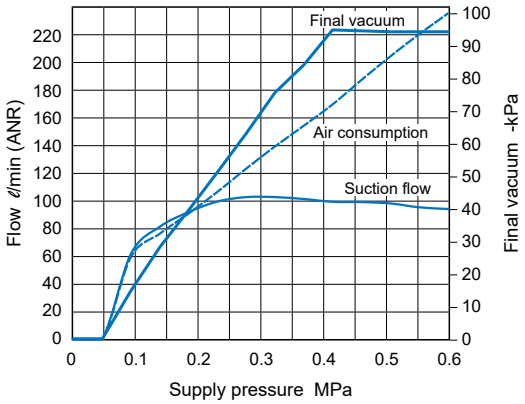
MVVA-10S



MVVA-15S



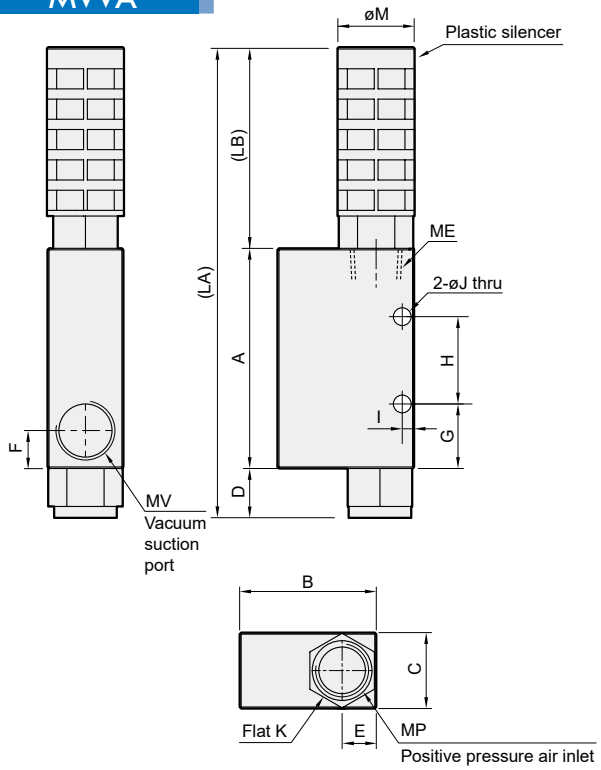
MVVA-20S



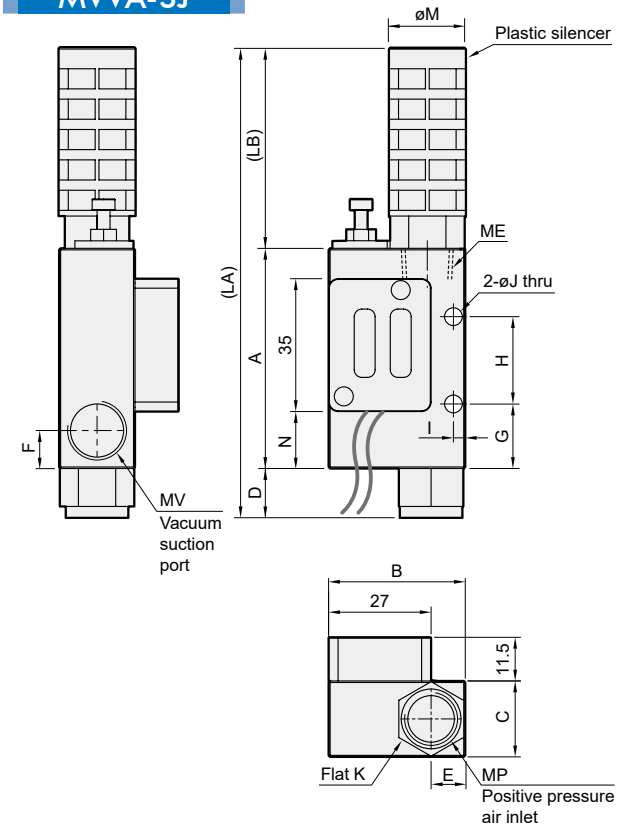
MVVA Dimensions

VACUUM GENERATOR

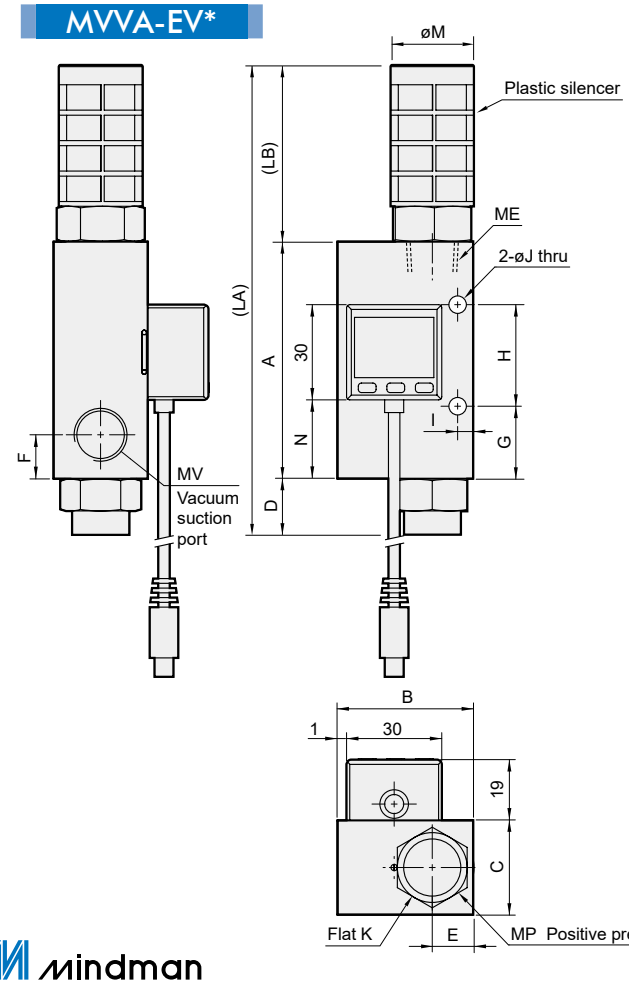
MVVA



MVVA-SJ



MVVA-EV*



Code / Model	A	B	C	D	E	F	G	H	I	J	K	LA
MVVA-10	55	34	15.5	10	9	8	13	18	3	4.3	14	91
MVVA-10-SJ	55	34	15.5	10	9	8	13	18	3	4.3	14	91
MVVA-10-EV*	55	40	16	10	9	8	13	18	3	4.3	14	91
MVVA-15	58	36	20	13	10.5	10	17	23	3.5	4.3	17	126
MVVA-15-SJ	58	36	20	13	10	10	17	23	3.5	4.3	17	126
MVVA-15-EV*	58	39	20	13	10.5	10	17	23	3.5	4.3	17	126
MVVA-20	75	43	29.5	18	13	14	23	32	5	5.5	22	151.8
MVVA-20-SJ	75	43	29.5	18	13	14	23	32	5	5.5	22	151.8
MVVA-20-EV*	75	43	29.5	18	13	14	23	32	5	5.5	22	151.8
MVVA-25	100	60	40	17	20	16	20	50	5.5	6	28	235.5
MVVA-30	115	60	40	20	20	20	33	50	5.5	6	30	235.5

Applicable silencer

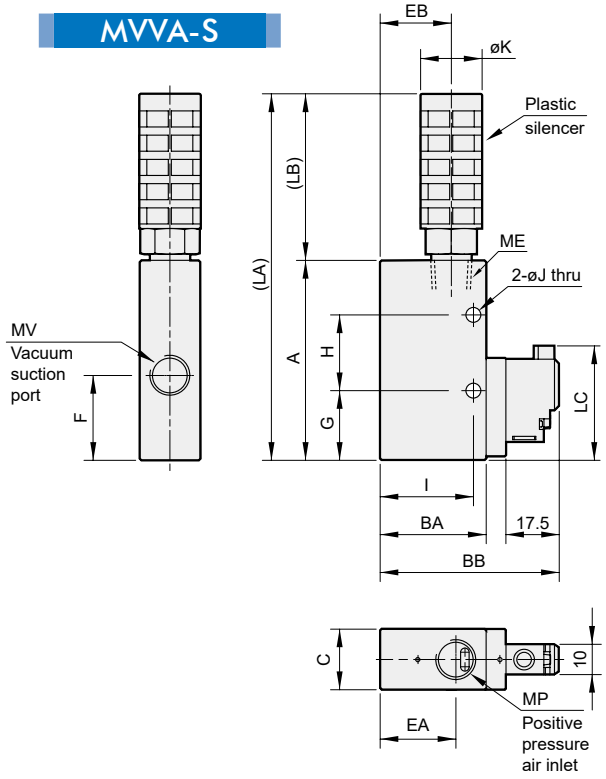
Code / Model	LB	M	ME	MP	MV	N	Silencer
MVVA-10(S)	26	16	Rc1/8	Rc1/8	Rc1/8	–	**MSR01-B**
MVVA-10(S)-SJ	26	16	Rc1/8	Rc1/8	Rc1/8	10.5	**MSR01-B**
MVVA-10(S)-EV*	26	16	Rc1/8	Rc1/8	Rc1/8	20	**MSR01-B**
MVVA-15(S)	55	20.3	Rc1/4	Rc1/4	Rc1/4	–	**MSR02-B**
MVVA-15(S)-SJ	55	20.3	Rc1/4	Rc1/4	Rc1/4	14	**MSR02-B**
MVVA-15(S)-EV*	55	20.3	Rc1/4	Rc1/4	Rc1/4	20	**MSR02-B**
MVVA-20(S)	58.8	26.3	Rc3/8	Rc3/8	Rc3/8	–	**MSR03-B**
MVVA-20(S)-SJ	58.8	26.3	Rc3/8	Rc3/8	Rc3/8	30.5	**MSR03-B**
MVVA-20(S)-EV*	58.8	26.3	Rc3/8	Rc3/8	Rc3/8	25	**MSR03-B**
MVVA-25	118.5	38	Rc3/4	Rc3/8	Rc1/2	–	**MSLE-06**
MVVA-30	118.5	38	Rc3/4	Rc1/2	Rc3/4	–	**MSLE-06**

* Silencer specifications .

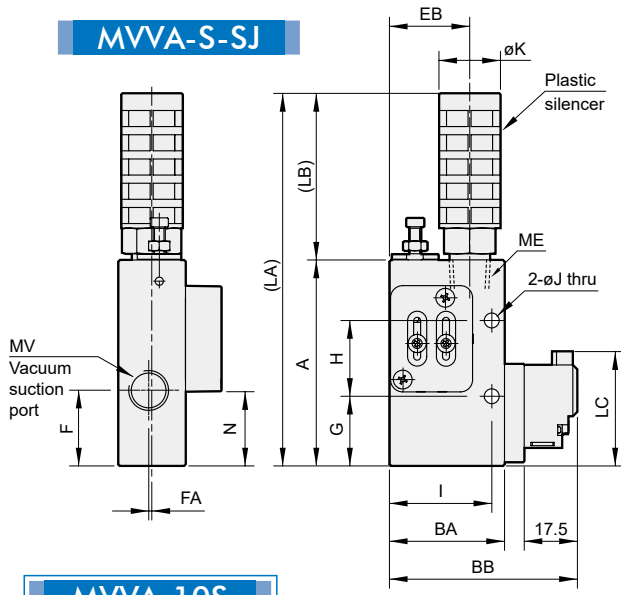
MVVA-S Dimensions

VACUUM GENERATOR

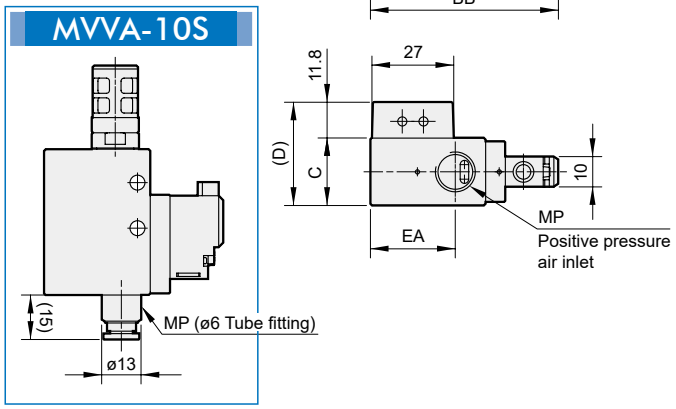
MVVA-S



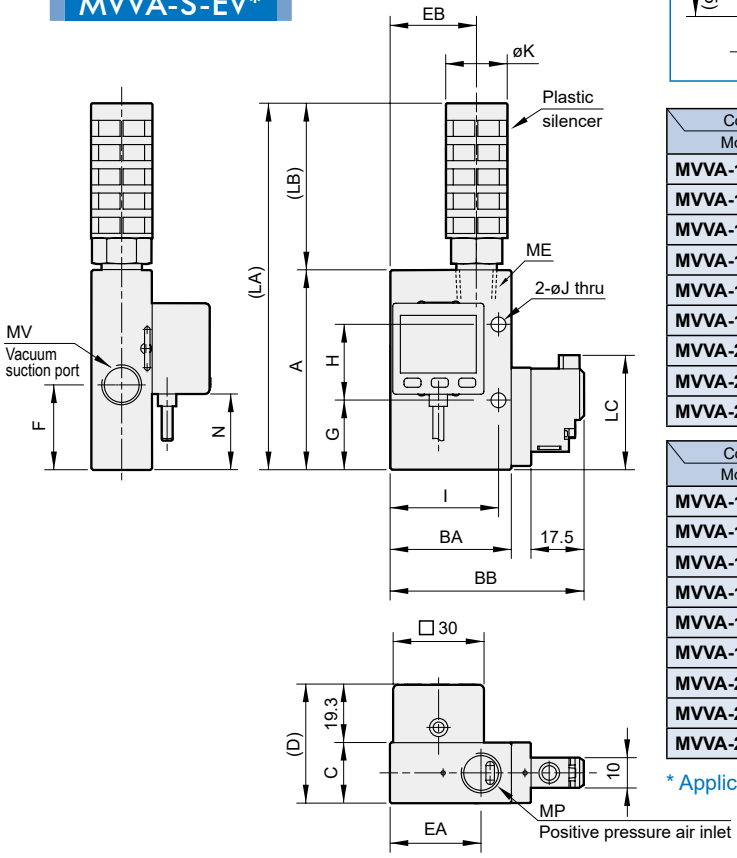
MVVA-S-SJ



MVVA-10S



MVVA-S-EV*



Code / Model	A	BA	BB	C	D	EA	EB	F	FA	G	H
MVVA-10S	48	35	59	16	–	25.5	23.5	25	–	22	15
MVVA-10S-SJ	68	36	60	16	27.8	26.5	24.5	24	1	22	25
MVVA-10S-EV*	48	40	64	16	35.3	30.5	28.5	29	–	22	15
MVVA-15S	66	35	59	20	–	25	23.5	28	–	23	24
MVVA-15S-SJ	68	38	62	22	34.8	28	26.5	25	1.2	23	24
MVVA-15S-EV*	66	40	64	20	39.3	30	28.5	28	–	23	24
MVVA-20S	85	50	74	29.5	–	36.5	32	33.5	–	28	32
MVVA-20S-SJ	85	50	74	29.5	41.3	36.5	32	33.5	–	28	32
MVVA-20S-EV*	85	50	74	29.5	48.8	36.5	32	33.5	–	28	32

Code / Model	I	J	K	LA	LB	LC	N	ME	MP	MV
MVVA-10S	30.8	4.3	16	94	31	37.2	–	Rc1/8	ø6	Rc1/8
MVVA-10S-SJ	31.8	4.3	16	114	31	37.2	24.5	Rc1/8	ø6	Rc1/8
MVVA-10S-EV*	35.8	4.3	16	96	31	37.2	2.5	Rc1/8	ø6	Rc1/8
MVVA-15S	30.8	4.3	20.3	121	55	37.9	–	Rc1/4	Rc1/4	Rc1/4
MVVA-15S-SJ	33.8	4.3	20.3	123	55	37.9	24.5	Rc1/4	Rc1/4	Rc1/4
MVVA-15S-EV*	35.8	4.3	20.3	121	55	37.9	25	Rc1/4	Rc1/4	Rc1/4
MVVA-20S	43	6	26.3	144	58.8	40.7	–	Rc3/8	Rc3/8	Rc3/8
MVVA-20S-SJ	43	6	26.3	144	58.8	40.7	40.5	Rc3/8	Rc3/8	Rc3/8
MVVA-20S-EV*	43	6	26.3	144	58.8	40.7	21	Rc3/8	Rc3/8	Rc3/8

* Applicable silencer please refer to the previous page.