

Air Micro Pumps

Best Selling Air Micro Pumps

Lower-Cost, High Performance



Precision Engineered and Built in Japan

AC Drive Air Micro Pumps DM-707ST, FX-7000ST,

FX-7070ST, GD-15TFF, GD-15TTF, GS, KM-5

DC Drive Air Micro Pumps BM-8, CM-15, CM-50

Electromagnetic Drive Air Micro Pumps MV-75HG,

MV-600G, SV-10

Air Micro Pumps

Features

- Ideal for gas analyzers and sampling instruments
- Housing is kept air-tight
- Oil-less pump. Simple maintenance. Clean operation.
- Designed for space-saving, light weight, and easy disassembling/assembling.
- Wide selection for gas contact components materials

AC Drive



DM-707ST



FX-7070ST



GD-15TTF



GS-6EA



FX-7000ST



GD-15TFF



KM-5

DC Drive



CM-15



CM-50

Electromagnetic Drive



MV-75HG



MV-600G



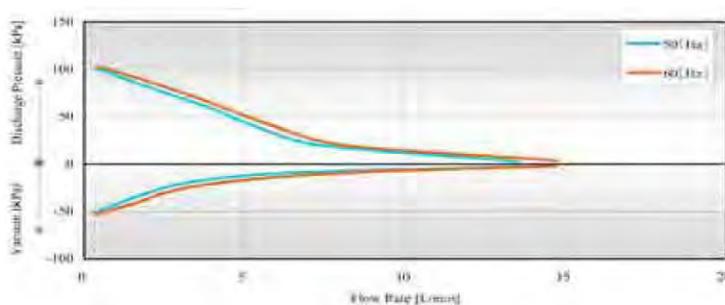
SV-10

Specifications

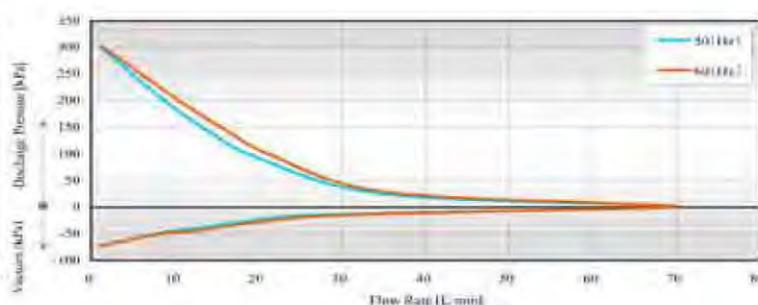
	DM-707ST-10	DM-707ST-15	DM-707ST-20	FX-7000ST
Max flow rate L/min	6.0 minimum	10.0 minimum	13.0 minimum	70.0 minimum
Max discharge kPa (mmHg)	49 (367.8) minimum	68 (514.9) minimum	98 (735.6) minimum	294 (2,207) minimum
Max vacuum kPa (mmHg)	-33.3 (-250)	-40.0 (-300)	-50 (-375)	-73 (-550)
Voltage V	AC100, 110, 200 or 220	←	←	AC 100 or 200
Current A	0.5	←	←	3.4 (100 V)/1.8 (200 V)
Rotation rpm 50 Hz/60 Hz	1,200/1,450	←	←	1,350/1,610
Insulation class	E	←	←	←
Ambient temperature °C	0 - 40	←	←	←
Gas contact material	PTFE/SUS316/SUS304	←	←	←
Connection	Rc 1/4	←	←	←
Weight kg	2.5	←	←	11.0

Characteristics/Dimensions

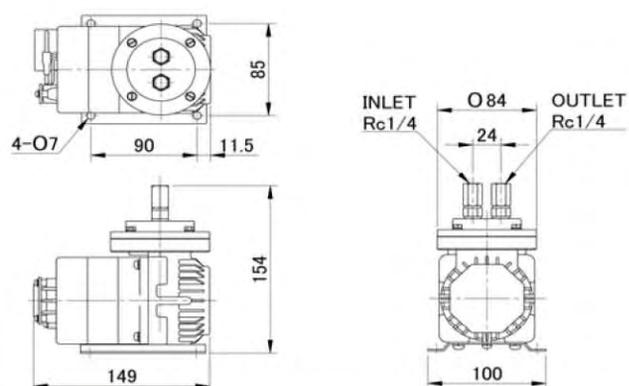
DM-707ST



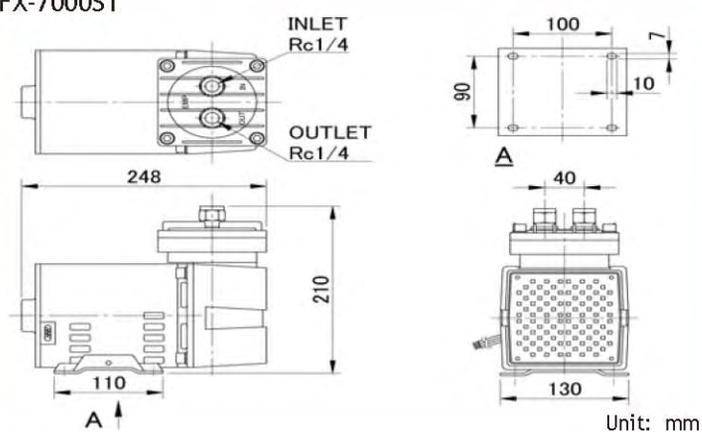
FX-7000ST



DM-707ST



FX-7000ST

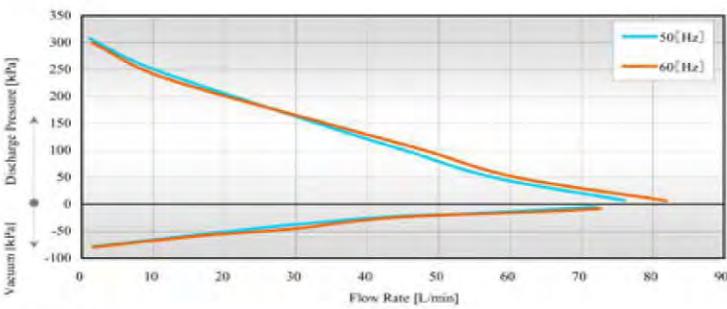


Specifications

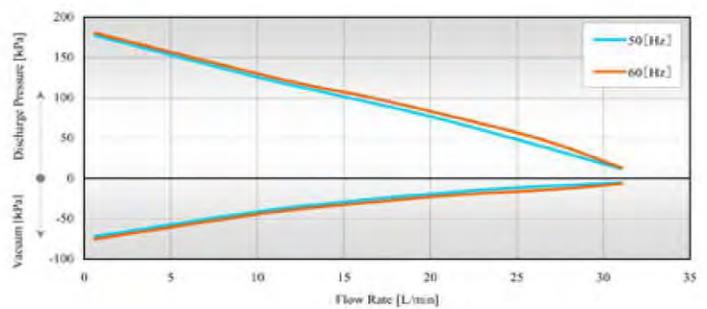
	FX-7070ST	GD-15TFF	GD-15TTF	GS-3EA
Max flow rate L/min	70.0 x 2 minimum	15.0 x 2 minimum	←	2.0 minimum
Max discharge kPa (mmHg)	294 (2,207) minimum	170 (1,273) minimum	160 (1,199) minimum	29 (2,207) minimum
Max vacuum kPa (mmHg)	-73 (-550)	-70 (-525)	-65 (-487)	-26 (-200)
Voltage V	AC100 or 200	AC200	←	AC 100 or 220
Current A	3.4 (100 V)/1.8 (200 V)	0.65	←	0.3 (100 V)
Rotation rpm 50 Hz/60 Hz	1,350/1,610	1,200/1,450	←	1,250/1,450
Insulation class	E	←	←	←
Ambient temperature °C	0 - 40	←	←	←
Gas contact material	PTFE/SUS316/SUS304	PTFE/PPS/FKM	PTFE/SUS316/SCS13	EPDM/PPS
Connection	Rc 1/4	←	←	Rc 1/8
Weight kg	14.0	5.0	6.0	2.0

Characteristics/Dimensions

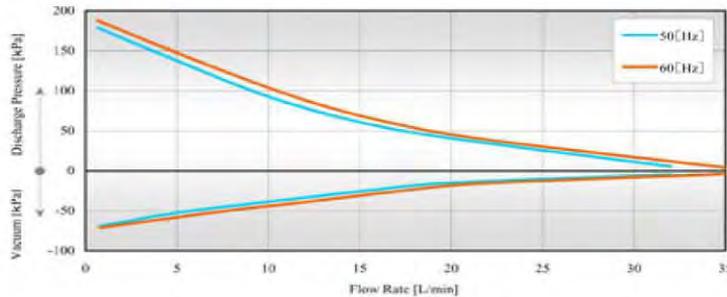
FX-7070ST



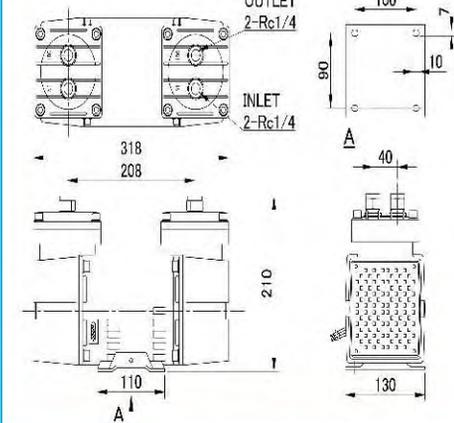
GD-15TF



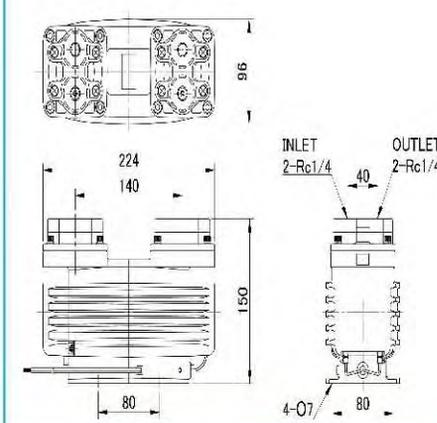
GD-15TT



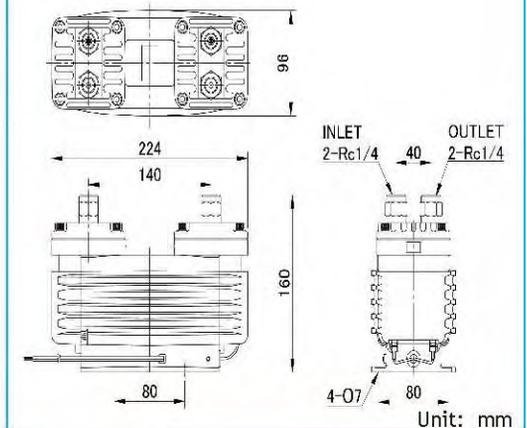
FX-7070ST



GD-15TF



GD-15TT



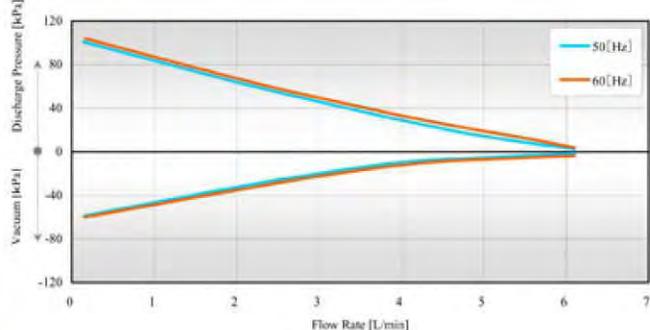
Unit: mm

Specifications

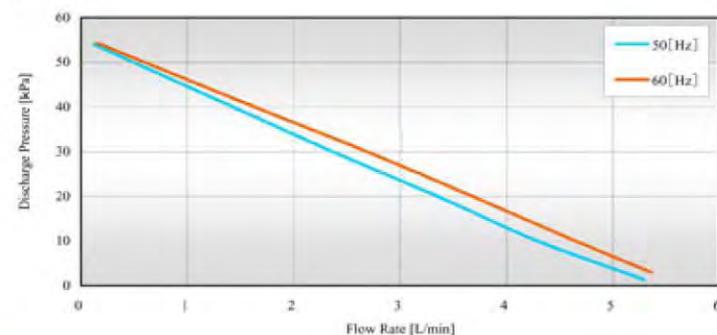
	GS-5EA	GS-6EA	KM-5EPA	KM5-EVA
Max flow rate L/min	5.0 minimum	6.0 minimum	5.0 minimum	←
Max discharge kPa (mmHg)	78 (588.4) minimum	98 (735.6) minimum	50 (375) minimum	- - -
Max vacuum kPa (mmHg)	-53 (-400)	-60 (-450)	- - -	-30 (-225)
Voltage V	AC100 or 220	←	AC100, 120, 200 or 230	←
Current A	0.3 (100 V)	←	0.5 (100 V)	←
Rotation rpm 50 Hz/60 Hz	1,250/1,450	←	2,800/3,400	←
Insulation class	E	←	←	←
Ambient temperature °C	0 - 40	←	←	←
Gas contact material	EPDM/PPS	←	EPDM/PC/Bs	←
Connection	Rc 1/8	←	6 mm dia hose nipple	←
Weight kg	2.0	←	1.0	←

Characteristics/Dimensions

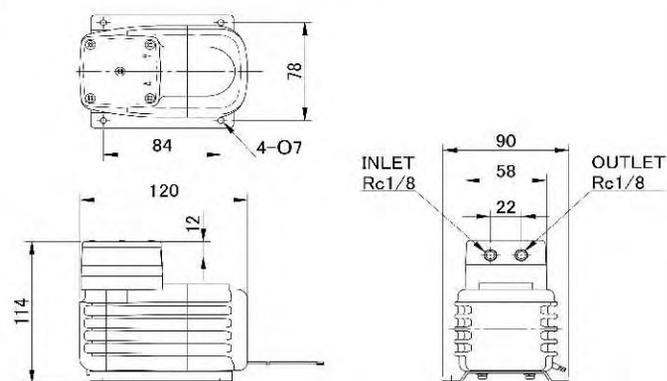
GS-6EA



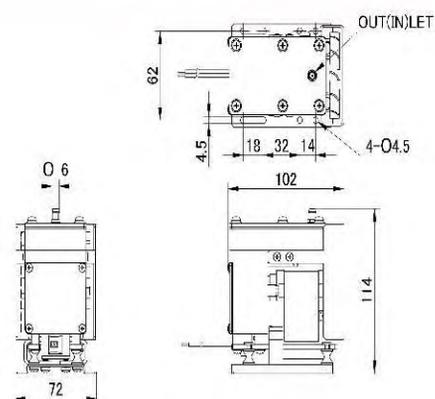
KM-5EPA



GS



KM-5



Unit: mm

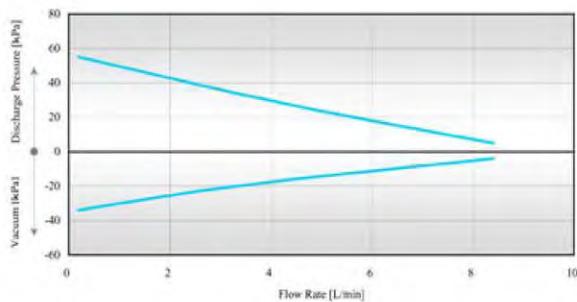
DC Drive

Specifications

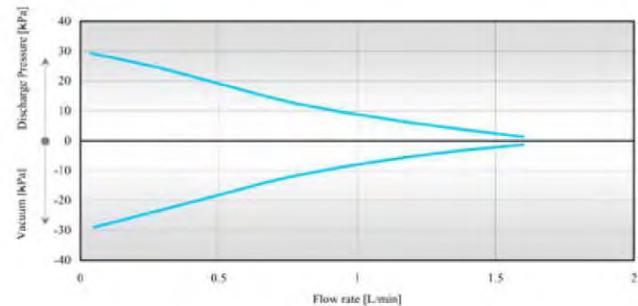
	BM-8-12	BM-8-24	CM-15-3	CM-15-6
Max flow rate L/min	8 minimum	←	1.5 minimum	←
Max discharge kPa (mmHg)	50 (375) minimum	←	26 (200) minimum	←
Max vacuum kPa (mmHg)	-30 (-225) maximum	←	-26 (-200)	←
Voltage V	DC12	DC24	DC3	DC6
Current A	0.8 maximum	0.475 maximum	0.4	0.2
Insulation class	E	←	←	←
Ambient temperature °C	10 - 40	←	0 - 40	←
Gas contact material	PC, EPDM, SUS304, Bs, Aluminum		CR/PBT	←
Connection	6 mm dia hose end		5.5 mm dia hose end	←
Weight kg	0.65		0.06	

Characteristics/Dimensions

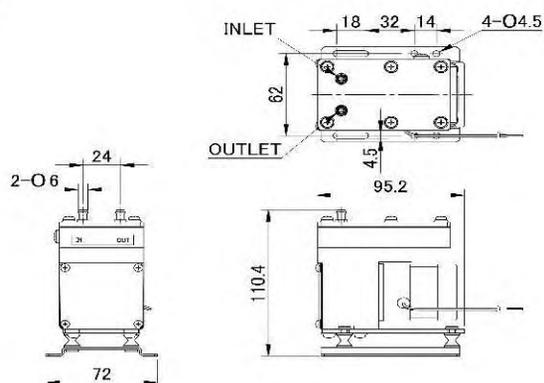
BM-8



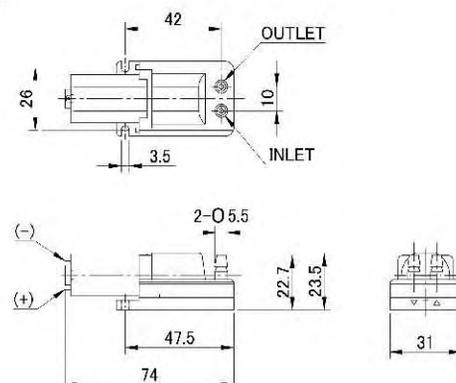
CM-15



BM-8



CM-15



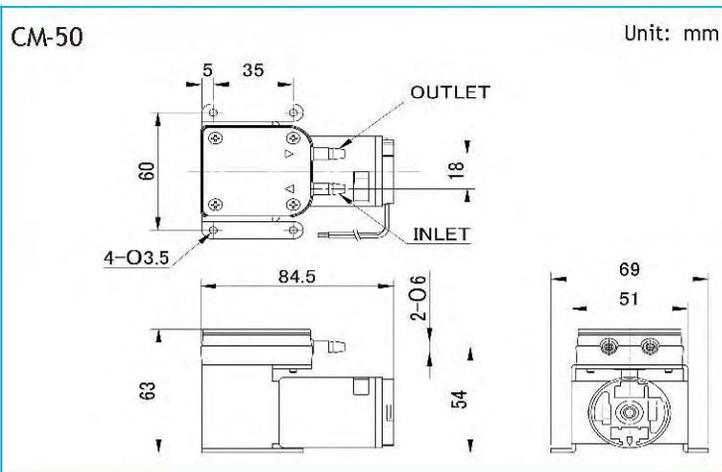
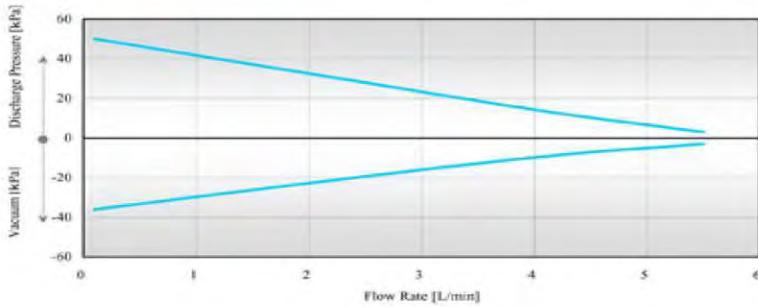
Unit: mm

Specifications

	CM-15-12	CM-15-24	CM-50-12	CM-50-24
Max flow rate L/min	1.5 minimum	←	5.0 minimum	←
Max discharge kPa (mmHg)	26 (200) minimum	←	40 (300) minimum	←
Max vacuum kPa (mmHg)	-26 (-200)	←	-33.3 (-250)	←
Voltage V	DC12	DC24	DC12	DC24
Current A	0.1	0.06	0.35	0.18
Insulation class	E	←	A	←
Ambient temperature °C	0 - 40	←	0 - 40	←
Gas contact material	CR/PBT	←	EPDM/POM	←
Connection	5.5 mm dia hose end	←	←	←
Weight kg	0.06	←	0.34	←

Characteristics/Dimensions

CM-50



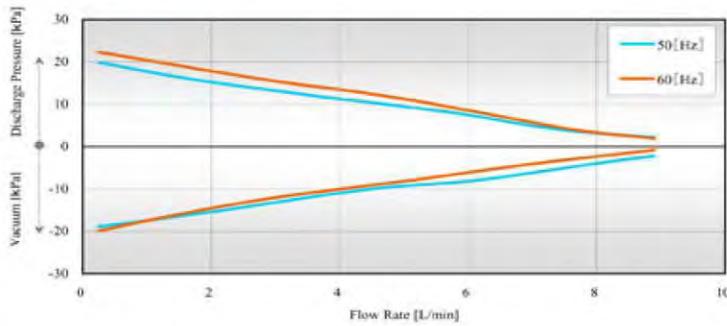
Electromagnetic Drive

Specifications

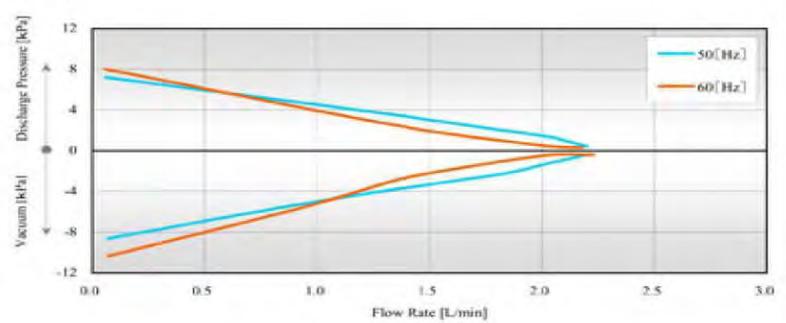
	MV-75HG	MV-600G	SV-10RR	SV-10FF
Max flow rate L/min	5.0 x 2 minimum	6.0 minimum	2 minimum	1.8 minimum
Max discharge kPa (mmHg)	17.3 (130) minimum	42.7 (320) minimum	6.6 (50) minimum	←
Max vacuum kPa (mmHg)	-13.3 (-100)	-40.0 (-300)	-6.6 (-50)	←
Voltage V	AC100, 115, 220 or 240	←	AC100, 110, 117, 200, 220 or 240	←
Current A	0.25	←	0.06	←
Insulation class	A	←	E	←
Ambient temperature °C	0 - 40	←	←	←
Gas contact material	CR/PF	←	CR/PP	FKM/PP
Connection	6 mm dia hose end	←	←	←
Weight kg	0.85	←	0.3	←

Characteristics/Dimensions

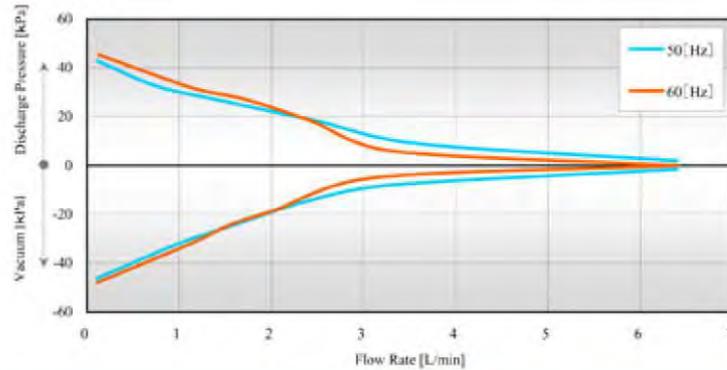
MV-75HG



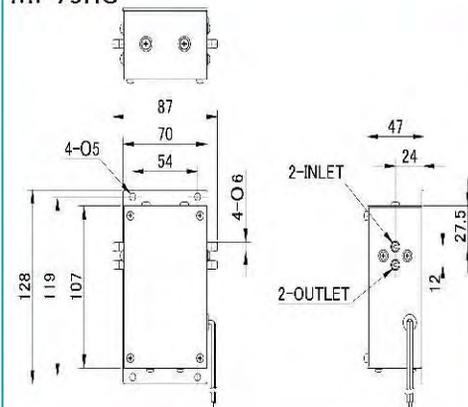
SV-10



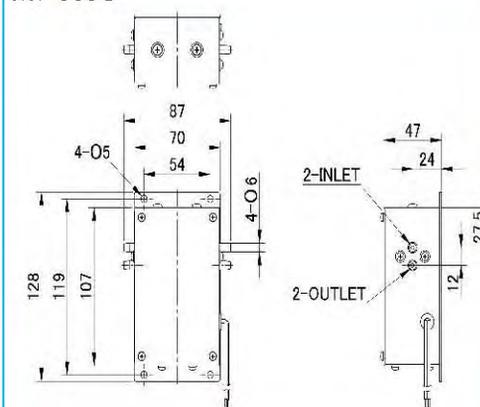
MV-600G



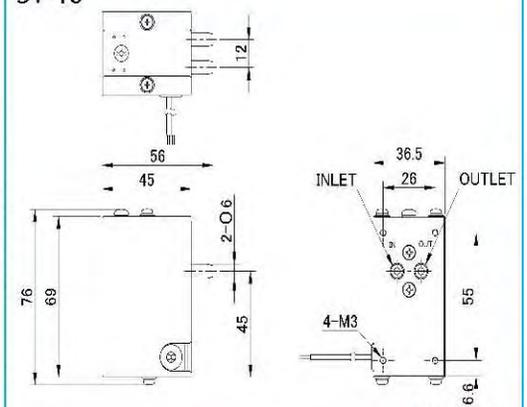
MV-75HG



MV-600G



SV-10



Unit: mm

The specifications are subject to change without a prior notice.



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