

MANUAL



Magic Gripper

(MC - series)



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Vacuum equipment / Common Precautions

Be sure to before handling



Warning

- ▶ Safe designs should be developed, which accounts for the possibility of accidents resulting from a drop in vacuum pressure due to power failure or trouble with the air supply, etc.
- ▶ Follow vacuum specifications for vacuum switching valves and vacuum breaker.
- ▶ Select vacuum pumps which have a suitable suction flow rate.
<When there is a vacuum leak from the work piece or the piping> <When piping is long or large diameter>
- ▶ If the suction flow rate is too high, setting of vacuum switches will become difficult.
- ▶ When two or more pads are piped to one vacuum pump, if one pad released its work Piece, the other pads will also release.
- ▶ Use piping with an adequate effective sectional area



Caution

- ▶ For information on related items, such as directional control equipment, refer to the caution sections in each respective catalog.

Mounting



Warning

- ▶ Do not obstruct the exhaust port of the vacuum pump.

Piping



Caution

- ▶ Avoid disorganized piping
- ▶ use piping with a large effective sectional area on the exhaust side of the vacuum pump.
- ▶ Make sure that there are no crushed areas in the piping due to damage of bending.

Operating Environment



Warning

- ▶ Do not operate in atmospheres of corrosive gases, chemicals, sea water, water of steam.
- ▶ Do not operate in explosive areas.
- ▶ Do not operate in locations where vibration of impact occurs.
Confirm the specifications for each series.
- ▶ In locations which receive direct sunlight, provide a protective cover, etc.
- ▶ In locations near heat sources, protect against radiated heat.
- ▶ In locations where there is contact with spatter from water, oil or solder, etc., implement suitable protective measures.
- ▶ In cases where the vacuum unit is surrounded by other equipment, etc., or the unit is energized for an extended time, implement measures to exhaust excess heat, so that temperatures remain within the range of the vacuum units specifications.

Maintenance

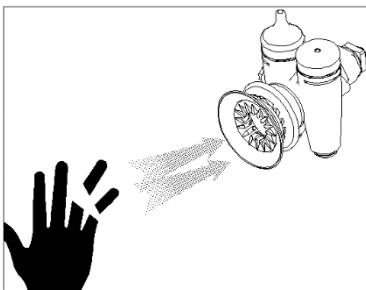


Warning

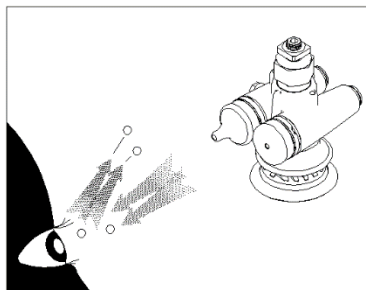
- ▶ Clean suction filters on a regular basis. (refer to specifications)



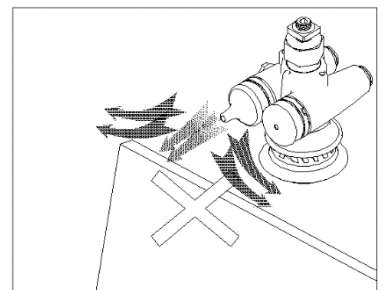
Caution



Vacuum Force



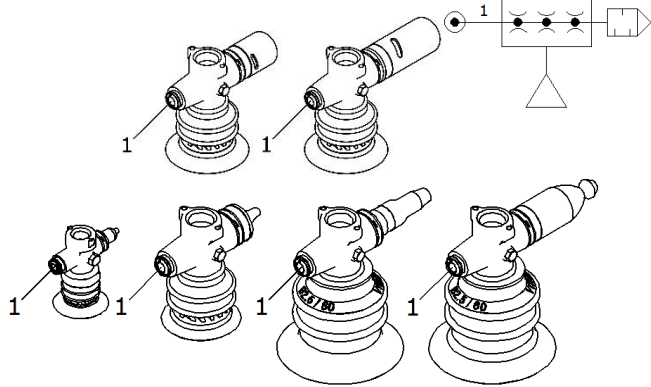
Exhaust



Unrestricted Exhaust

1. Installation

▼ Series MC10A../MC20(S)A../MC23(S)A../MC25A..



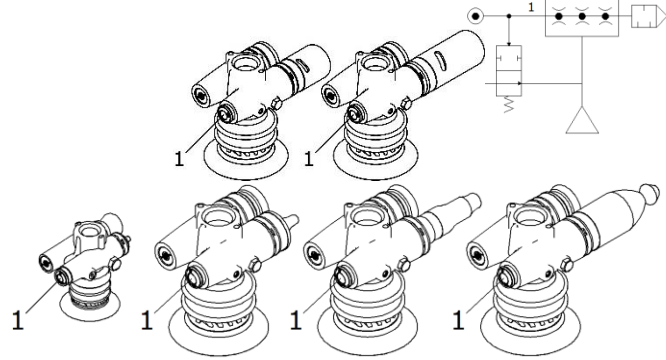
hose Ø (Inner diameter)

		MC10A..	MC20(S)A..	MC23(S)A..	MC25A..
1	Compressed Air	4	6	6	6

Vacuum Level

MODEL	Feed Pressure (MPa)	Max. Vacuum Level (-kPa)
MC10A	0.2 ~ 0.4	83
MC20A, MC23A	0.3 ~ 0.7	92
MC25A	0.3 ~ 0.7	95

▼ Series MC10B../MC20(S)B../MC23(S)B../MC25B..



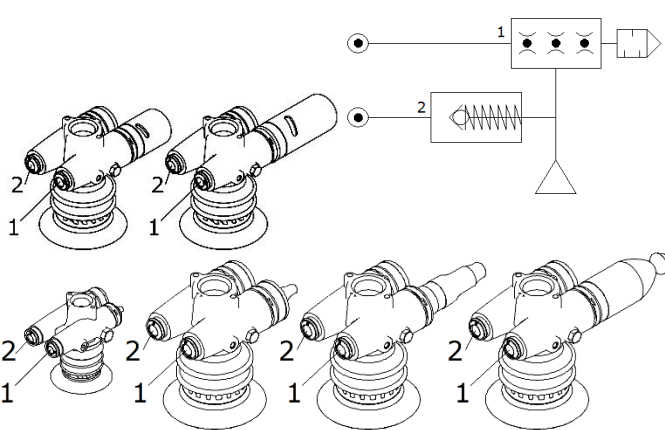
hose Ø (Inner diameter)

		MC10B..	MC20(S)B..	MC23(S)B..	MC25B..
1	Compressed Air	4	6	6	6

Vacuum Level

MODEL	Feed Pressure (MPa)	Max. Vacuum Level (-kPa)
MC10B	0.2 ~ 0.4	83
MC20B, MC23B	0.3 ~ 0.7	92
MC25B	0.3 ~ 0.7	95

▼ Series MC10C../MC20(S)C../MC23(S)C../MC25C..



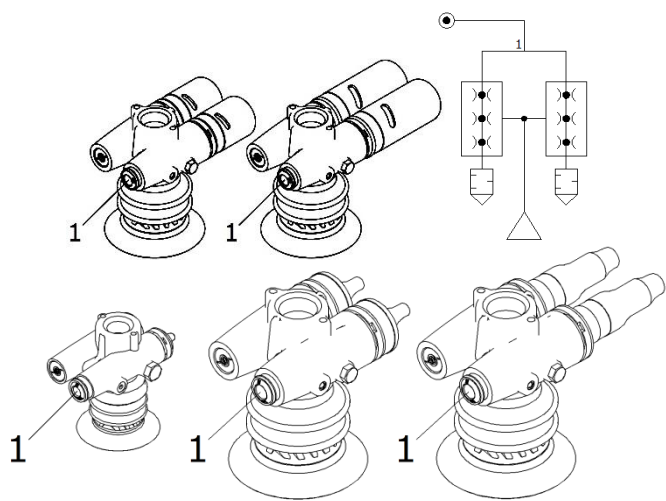
hose Ø (Inner diameter)

		MC10C..	MC20(S)C..	MC23(S)C..	MC25C..
1	Compressed Air	4	6	6	6
2	Vacuum Release	4	6	6	6

Vacuum Level

MODEL	Feed Pressure (MPa)	Max. Vacuum Level (-kPa)
MC10C	0.2 ~ 0.4	83
MC20C, MC23C	0.3 ~ 0.7	92
MC25C	0.3 ~ 0.7	95

▼ Series MC10D../MC20(S)D../MC23(S)D..



hose Ø (Inner diameter)

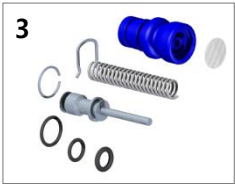
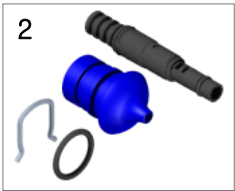
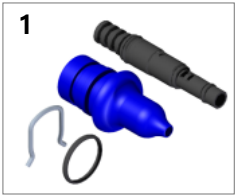
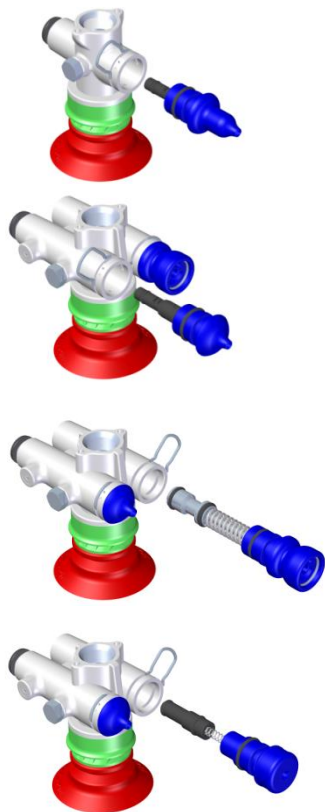
		MC10D..	MC20(S)D..	MC23(S)D..
1	Compressed Air	4	6	6

Vacuum Level

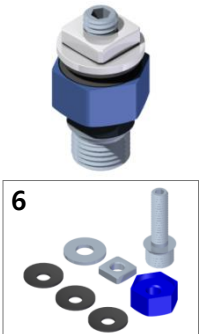
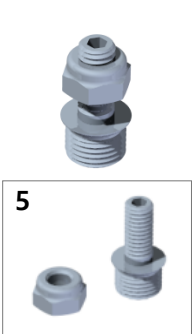
MODEL	Feed Pressure (MPa)	Max. Vacuum Level (-kPa)
MC10D	0.6	75
MC20D, MC23D	0.3 ~ 0.6	92

2. Maintenance & Accessories

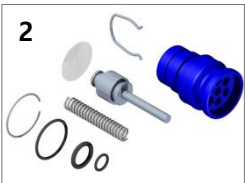
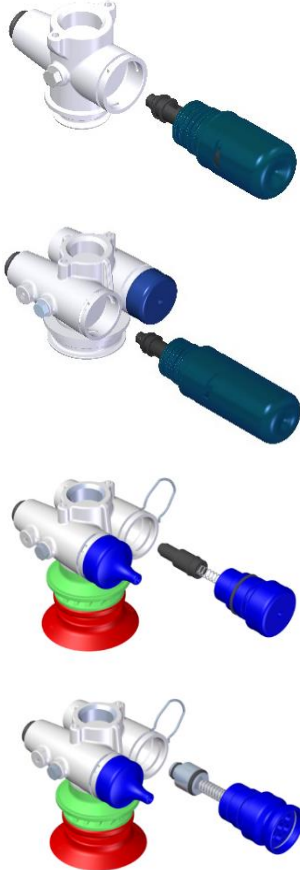
▼ Series MC10....



	Description	Remark	Order No.
1	MC10A Cartridge Ass'y	VC102	191S05010200
2	MC10B,MC10C,MC10D Cartridge Ass'y	VC102	191S05010300
3	MC10B Blowing Plug Ass'y		191S07010200
4	MC10C Piston Plug Ass'y		191S04010200
5	MC10 Normal Mounting M06		1E609050000
6	MC10 Profile Mounting PM06		1E608050000



▼ Series MC20~25...



	Description	Remark	Order No.
1	MC20(ABCD)	VC202	191S05010100
	MC23(ABCD)	VC203	191S05010400
	MC25(ABC)	VC252	191S05010500
1-1	MC20S(ABCD)	VC202	191S05010600
	MC23S(ABCD)	VC203	191S05010700
2	MC20~25 Blowing Plug Ass'y		191S07010100
3	MC20~25 Piston Plug Ass'y		191S04010100
4	MC20~25 Normal Mounting M08		1E609060000
5	MC20~25 Profile Mounting PM08		1E608060000

