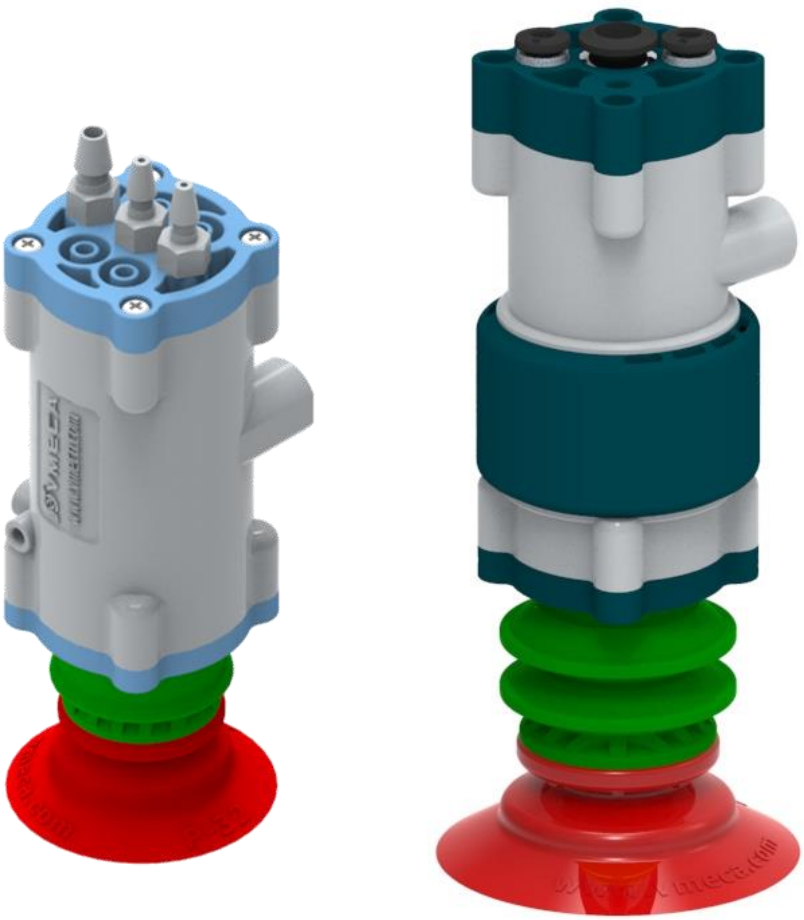
MANUAL

Magic Gripper

(MV - 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

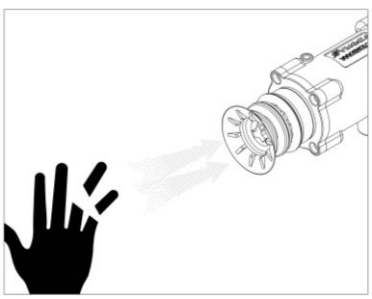
- Do not operate in atmospheres of corrosive gases, chemicals, sea water, water of steam.
- Do not operate in explosive areas.
- Do not operate in locations where vibration of impact occurs.
  Confirm the specifications for each series.
- In locations which receive direct sunlight, provide a protective 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

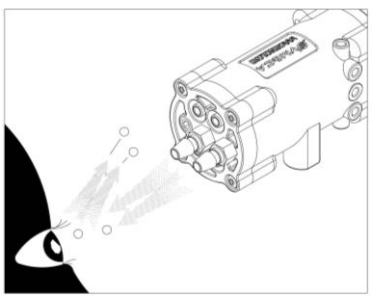
Warning

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

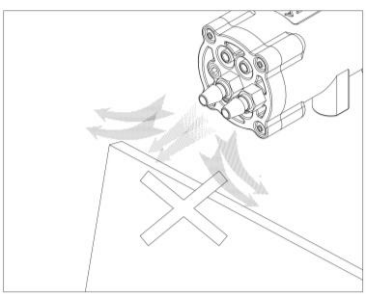
Caution



Vacuum Force

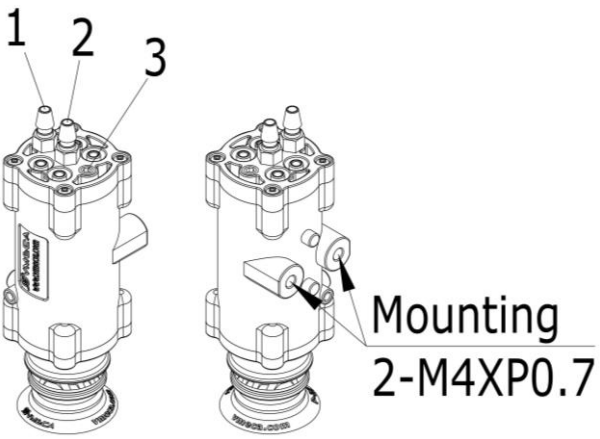


Exhaust

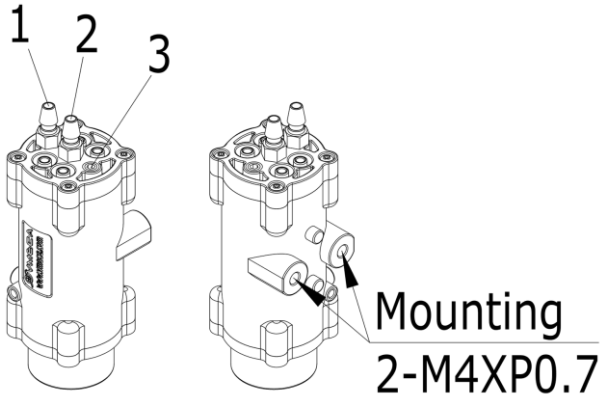


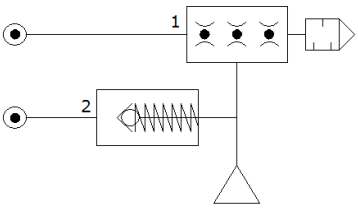
Unrestricted Exhaust

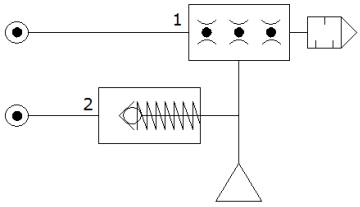
▼ **Series MV10 , MC15**
Pad type



▼ **Series MV10 , MC15**
Fitting type





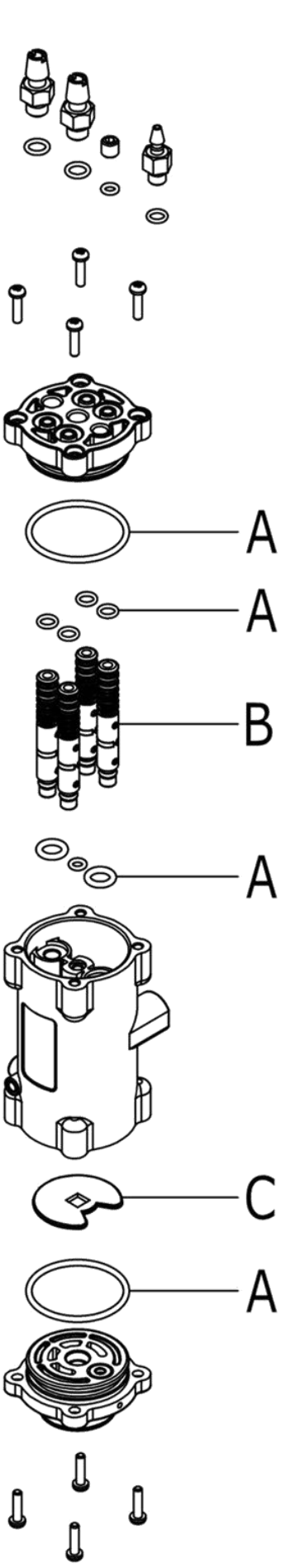


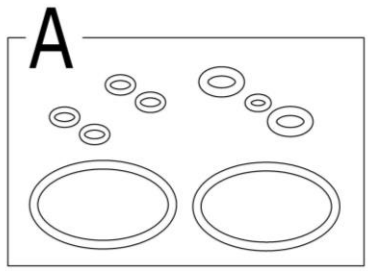
Hose Ø (Inner diameter)

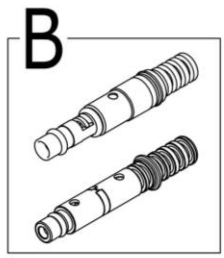
		MV10, MV15
1	Compressed Air	Ø6 Hose (Inner diameter : Ø4)
2	Vacuum Release	Ø6 Hose (Inner diameter : Ø4)
3	Sensor port	Ø4 Hose (Inner diameter : Ø2.5)

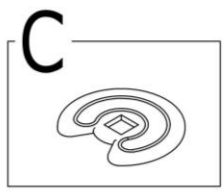
Vacuum Level

MODEL	Feed Pressure (MPa)	Max. Vacuum Level (−kPa)
MV10	0.1 ~ 0.3	83
MV15	0.3 ~ 0.5	85

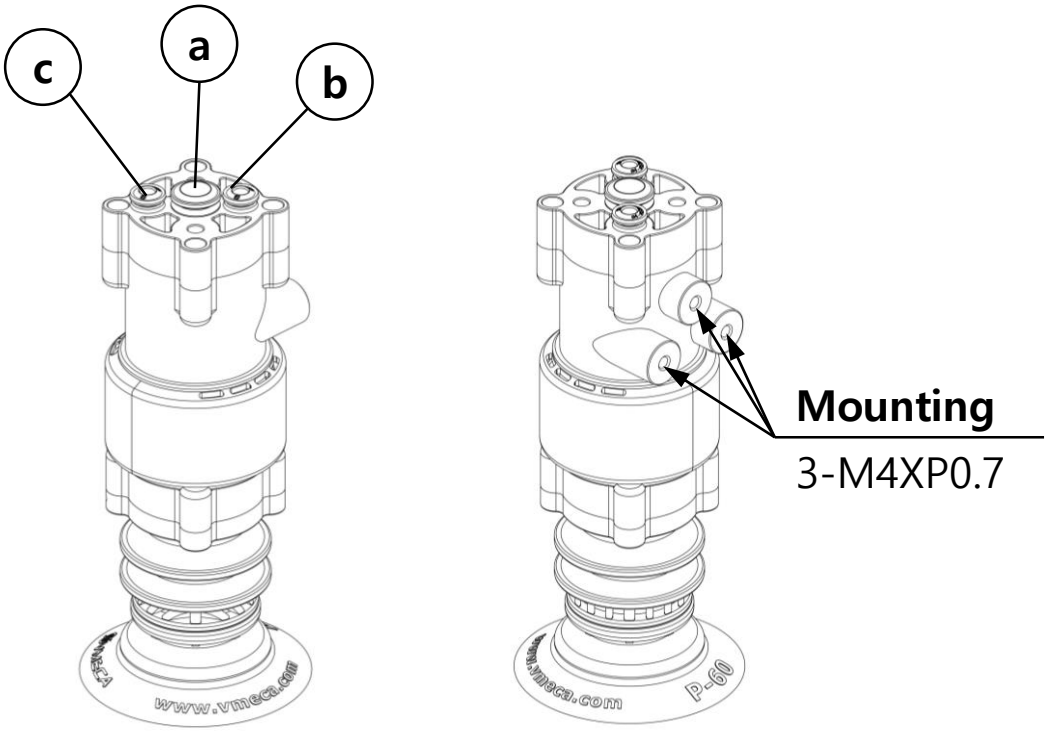


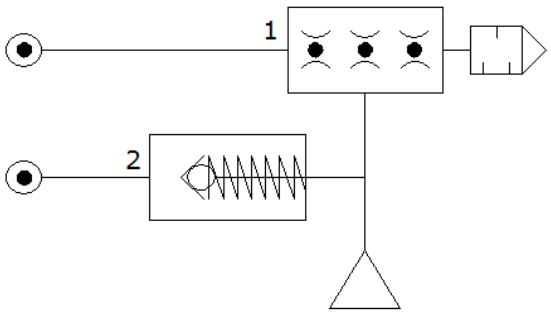






	Description	Remark	Order No.
A	Seal kit	NBR	15AL011
B	Cartridge-VC102	MV10	18310200000
	Cartridge-VC152	MV15	18380200000
C	Non return v/v	MV10(15).. - N	15AL021





Hose Ø (Inner diameter)

		MV20
a	Compressed Air	Ø6 Hose (Inner diameter : Ø4)
b	Vacuum Release	Ø4 Hose (Inner diameter : Ø2.5)
c	Sensor port	Ø4 Hose (Inner diameter : Ø2.5)

Vacuum Level

MODEL	Feed Pressure (MPa)	Max. Vacuum Level (-kPa)
MV20	0.3 ~ 0.6	89.1

	Description	Remark	Order No.
A	Seal kit	NBR	191S19010100
B	Cartridge-VC202	MV20	18320200000
C	Non return V/V	MV20.. - N	191S20010100