



Vacuum Gripper Unit for Collaborative Robots

Plug & play configuration
for immediate use

URCap compatible Easy programming



Vacuum Gripper Unit for Collaborative Robots

UR3(e), UR5(e), UR10(e), UR16(e)

Plug & Play

Operate by simply connecting 1 compressed air supply tube and an electrical wiring M8 connector.

- Integrated vacuum ejector, air supply/release valve, pressure sensor, and pad
- Standards: ISO9409-1-50-4-M6
- URCap compatible



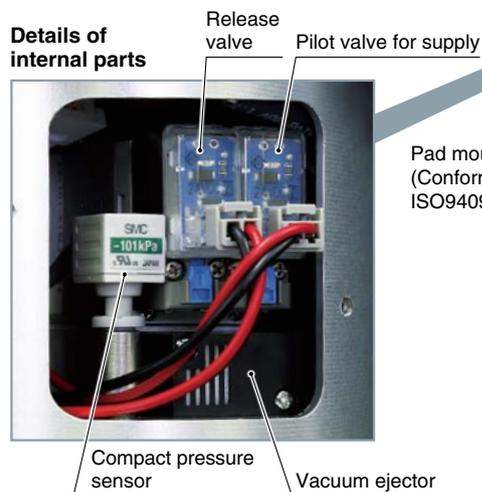
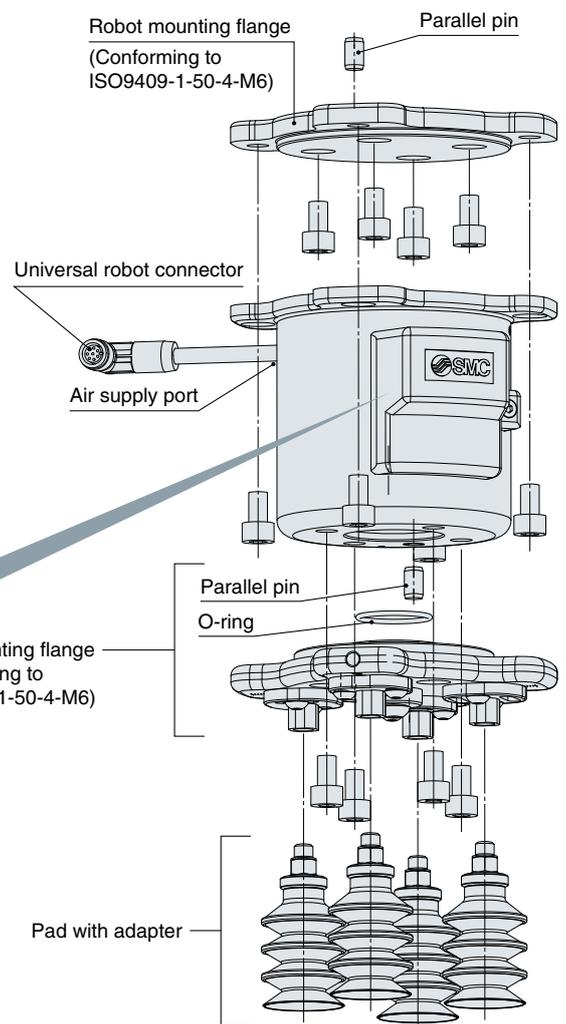
Specifications

Common	Mounting	Conforming to ISO9409-1-50-4-M6
	Applicable fluid	Air
	Operating temperature range [°C]	5 to 50
	Weight [g]*1	840 (612)
	Max. work load [kg]*2	7
	Air pressure supply (P) port	One-touch fitting (ø6)
	Power supply voltage [V]	24 VDC ±10%
Vacuum Ejector	Max. vacuum pressure [kPa]*3	-84
	Suction flow rate [L/min (ANR)]*3	17
	Air consumption [L/min (ANR)]*3	55
	Supply pressure range [MPa]	0.3 to 0.55
	Standard supply pressure [MPa]	0.5
Pressure sensor	Rated pressure range [kPa]	0 to -101
	Accuracy (Ambient temperature at 25°C)	±2 F.S.
	Linearity [%]	±0.4 F.S.
	Repeatability [%]	±0.2 F.S.

*1 The weight in brackets refers to the weight of the product without a pad mounting flange. Add the weight of the vacuum pad with adapter for the weight with a pad.

*2 May be restricted depending on the pad diameter, mounting orientation, or workpiece. Please use within the max. work load. Suction and transfer exceeding the max. work load may result in reduced vacuum pressure due to air leakage.

*3 Values are at the standard supply pressure and based on SMC's measurement standards. They depend on atmospheric pressure (weather, altitude, etc.) and the measurement method.



Adsorption Unit Examples

The number of pads can be changed.



Pad: 1 pc.

Pad: 2 pcs.

Pad: 4 pcs.

The pad type can be changed.



Flat (ø8), Silicone

Bellows (ø20), NBR

Thin flat (ø16), NBR

Flat (ø32), Silicone

Flat (ø32), Urethane



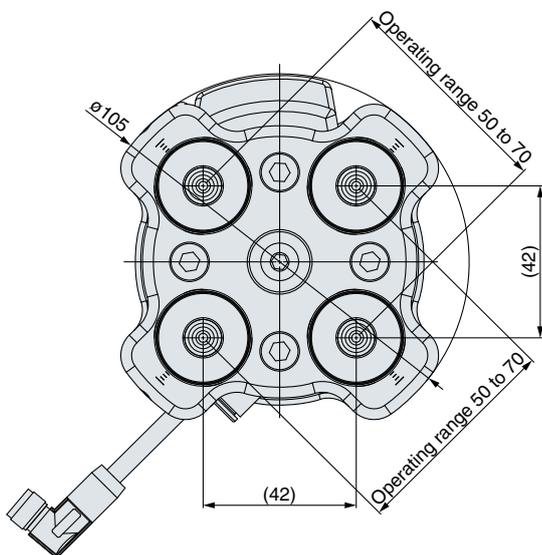
ø32, 2.5-stage, Silicone

ø25, 5.5-stage, Silicone

ø25, 5.5-stage, Silicone
Vacuum saving valve

* The silicone material is compliant with the FDA (U.S. Food and Drug Administration) regulation 21CFR§177.

■ The pad pitch can be changed.

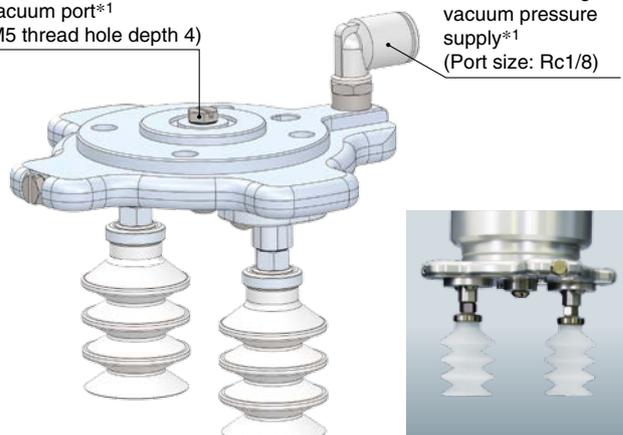


■ The pad with flange can be used separately

(if using an external vacuum source).

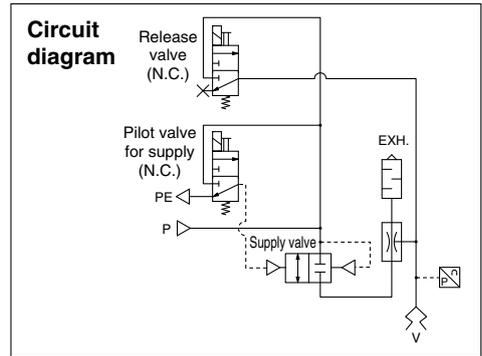
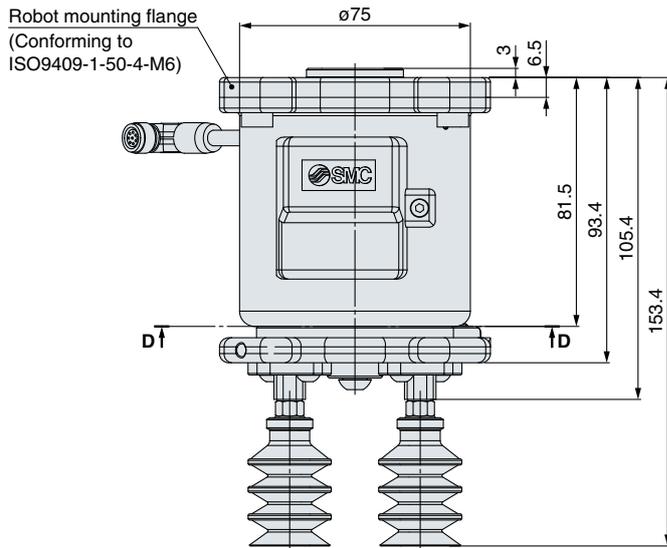
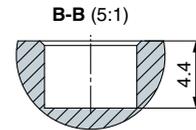
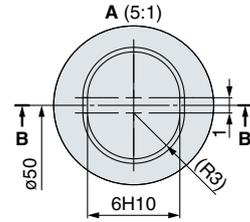
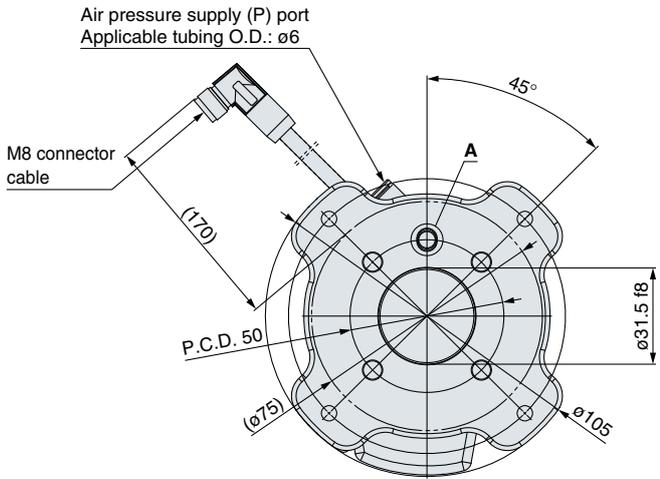
Vacuum port*1
(M5 thread hole depth 4)

One-touch fitting for
vacuum pressure
supply*1
(Port size: Rc1/8)

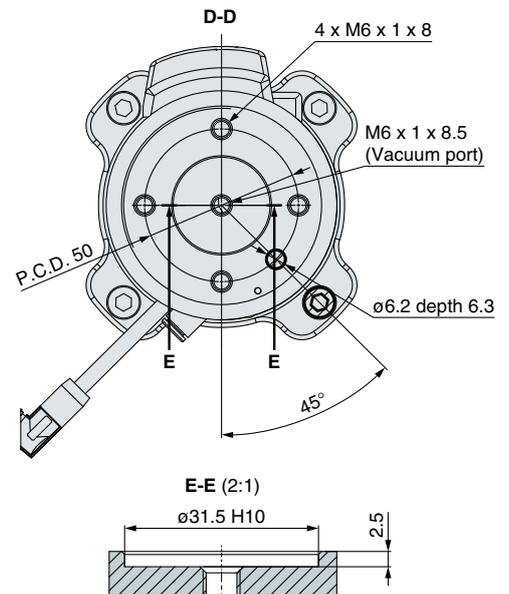
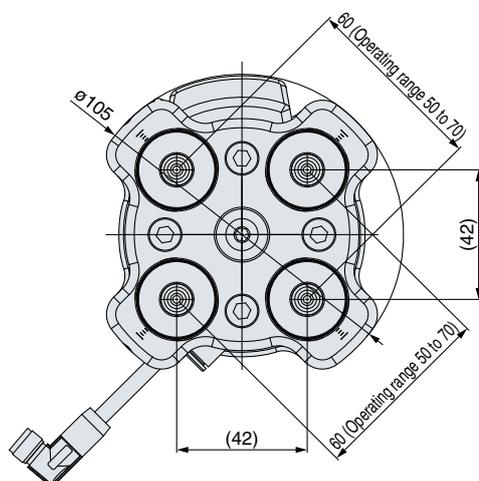


*1 When using a pad with flange, be sure to order a One-touch fitting for vacuum pressure supply (part number: KQ2L08-01NS) and a vacuum port plug (part number: M-5P) separately.

Dimensions



Without pad mounting flange



URCap compatible

Easy programming

By using the dedicated software certified for universal robots, URCap, the teaching pendant can conduct various operations intuitively, resulting in easy pressure setting, etc.
Save a copy of the URCap software to a USB memory and insert it into the teaching pendant to easily install the software.

