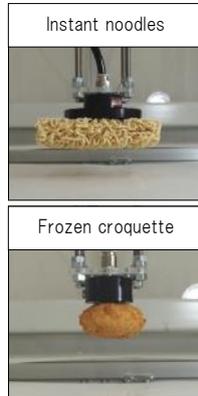
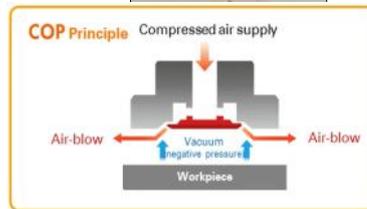


Vacuum system product

Non-contact pad **COP** series



- ▶ Non-contact transfer possible based on Bernoulli principle.
- ▶ Enable the suction of work pieces with uneven surface and porous work pieces.



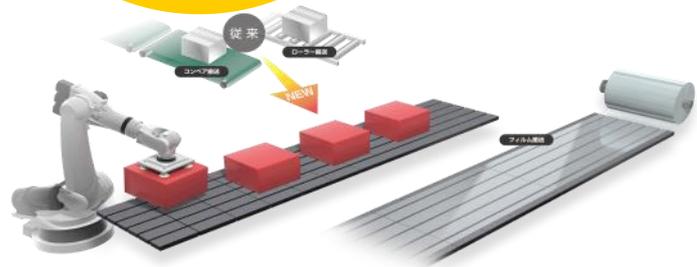
Reference	Unit	COP-20	COP-40	COP-60	COP-80	COP-100
Pad diameter	mm	φ20	φ40	φ60	φ80	φ100
Operating pressure range	MPa	0.15 ~ 0.5				
Lifting force	N	1.3	5.1	8.5	24.5	39.2
Air consumption	l/min(ANR)	79	114	133	242	242

Lifting force and air consumption values in above table are effective when air supply pressure is set at 0.5 MPa and in the case of flat item suction.

Levitating Transport Unit **LTU** series

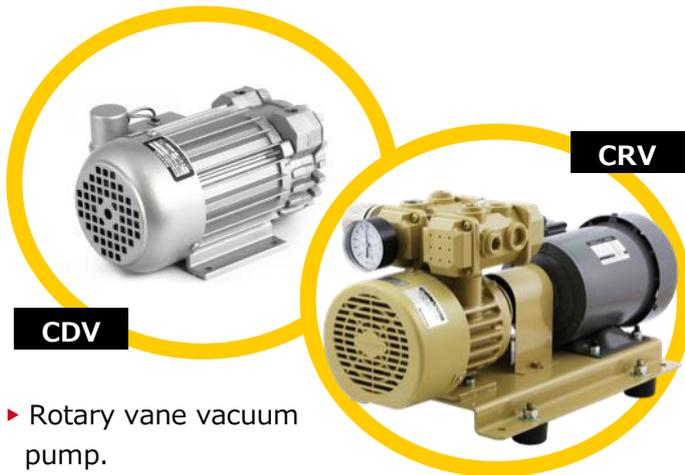


- ▶ Be able to coordinate with the assembly line, with layout free-changeable.
- ▶ Lightweight, resin body.



Reference	Unit	LTU-025P□
Size (W×L×H)	mm	100×250×29.7
Operating pressure range	kPa	1~200
Flatness	μm	100

Vacuum pumps **CDV, CRV** series



- ▶ Rotary vane vacuum pump.

CDV series

Reference	Unit	CDV-3		CDV-5	
Frequency	Hz	50	60	50	60
Vacuum (air) flow	l/min(ANR)	57	70	100	113
Max. vacuum pressure	kPa	-89	-90	-89	-90
Motor power	kW	0.25		0.4	

CRV series

Reference	Unit	CRV-16		CRV-25	
Frequency	Hz	50	60	50	60
Vacuum (air) flow	l/min(ANR)	230	280	400	480
Max. vacuum pressure	kPa	-86.3			
Motor power	kW	0.4		0.75	

Vacuum switching valve

MPV3 series

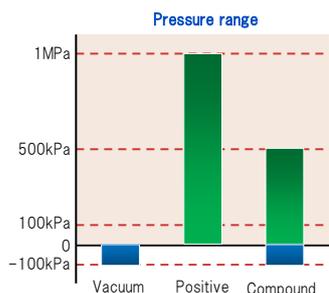


- ▶ For use with vacuum pump system.
- ▶ All in one unit.
- ▶ Manifold option available. Up to 8 unit.

Reference	Unit	MPV3	
		Vacuum switching valve	Vacuum release valve
Fluid		Air (vacuum pressure)	Non-lubricated air
Pressure range (VP, DP)		-90~0 kPa	0.3~0.5 MPa
Filtration rate	μm	37	
Type of control valve		Pilot operated poppet	
Effective area	mm ²	5.1	2.6
Control flow	l/min(ANR)	About 50 (when -80kPa)	About 60 (when 0.5MPa)

Vacuum sensor (2 colors digital display)

MPS-34 series



▶ Easy checking with 2 colors display

Output switch ON / OFF display changes color according to the operation 4 patterns settings.

▶ Positive pressure : -0.1~1.0MPa

Vacuum pressure : -101.3~0kPa

Compound pressure : -101~500kPa

▶ Easy settings

▶ Standard switch output and analog output

Switch output (open collector)

Analog output (1~5V)

Separate type pressure sensors

MPS-7 series MPS-8 series



Digital display
MPS-7

Separate type pressure sensor head
MPS-8

▶ Wire savings

Sensor heads are connected to the display.
Only one wire (display) is connected to the PLC.

▶ Positive, negative and compound pressure can be checked easily by one indicators

▶ 4 types of pressure port

M5 (male, female), φ4, φ6,

Work drop prevention check valves

FPV series



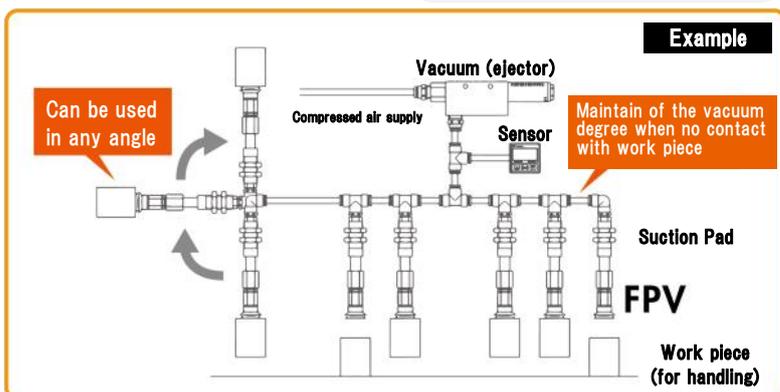
▶ Safety handling of work piece with several pads

Enable using one CONVUM ejector and several pads, in applications where some of the suction pads may not be in contact with the work piece.

▶ Maintain of suction even if no contact with work piece

Suction is maintained even in no contact between work piece and some of the suction pads.

▶ Integrated filter



Vacuum filter

VF series VFL series



Vacuum filter
VF

- ▶ High vacuum (air) flow
- ▶ Easy maintenance
- ▶ Several port sizes available



Vacuum in-line filter
VFL

- ▶ Compact type, space saving
- ▶ With push-in connection
- ▶ Easy maintenance



Miniature vacuum in-line filter
VFL-M5

- ▶ Compact type, space savings, mounted directly
- ▶ Easy maintenance

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