

Compact Vacuum Ejectors

Compact Vacuum Ejectors MCP-RP

Suction capacity: 116 L/min to 200 L/min

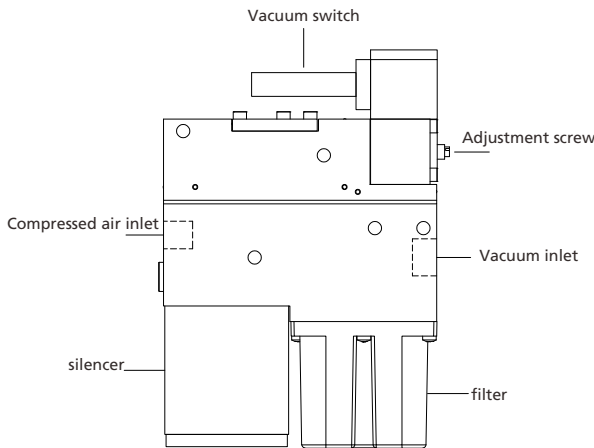
Compact Vacuum Ejectors MCP-RP



Introduction and application

- ◆ Integrated vacuum ejectors for handling airtight or micro-breathable workpieces
- ◆ Used in the automotive industry, packaging industry, robot automation

System Design Compact Vacuum Ejectors MCP-RP



Design

- ◆ Basic body made from anodized aluminum; Composed of filter, silencer, two solenoid valves (suction/blowing), check valve
- ◆ Various vacuum switches to choose from for monitoring vacuum systems
- ◆ Control board with threaded connection for controlling various functions, externally compressed
- ◆ Gas pulse control suction / blowing

Ordering Data Compact Vacuum Ejectors MCP-RP

Type	Nozzle size [mm]	System test	Ordering Data
MCP 20 RP	20=2.0mm	RP with pneumatic vacuum switch for the throttle function	90.05.01.00237
MCP 25 RP	25=2.5mm		90.05.01.00238
MCP 30 RP	30=3.0mm		90.05.01.00239
MCP 20 RP VD	20=2.0mm	VD Digital vacuum switch	90.05.01.00240
MCP 25 RP VD	25=2.5mm		90.05.01.00241
MCP 30 RP VD	30=3.0mm		90.05.01.00242

Combined Suction Cups

Vacuum Suction Cups

Composite Suction Cups

Special Grippers

Vacuum Gripping Systems

Mounting Elements

Vacuum Generators

Valve Technology

Switch And Monitoring

Vacuum Filters

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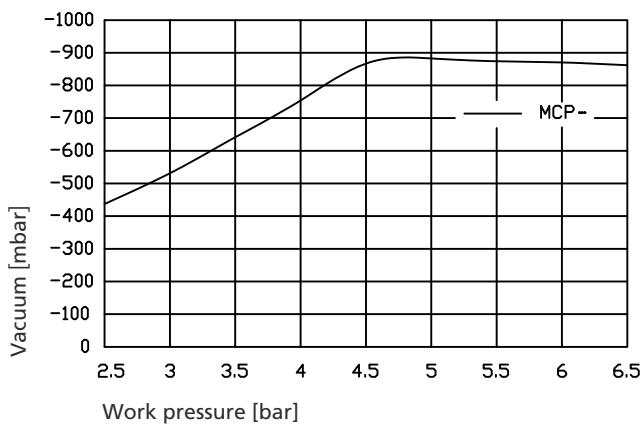
Technical Data Compact Vacuum Ejectors MCP-RP

Type	Noise level suction [dB]	Noise level free [dB]	operating pressure [bar]	Recomm. internal hose diameter compressed air [mm]	Recomm. internal hose diameter vacuum [mm]	Weight [g]	Operating temperature [°C]
MCP 20 RP	76	78	5...6	4	9	0.39	0...45
MCP 25 RP	72	82	5...6	6	9	0.41	0...45
MCP 30 RP	82	82	5...6	6	12	0.41	0...45

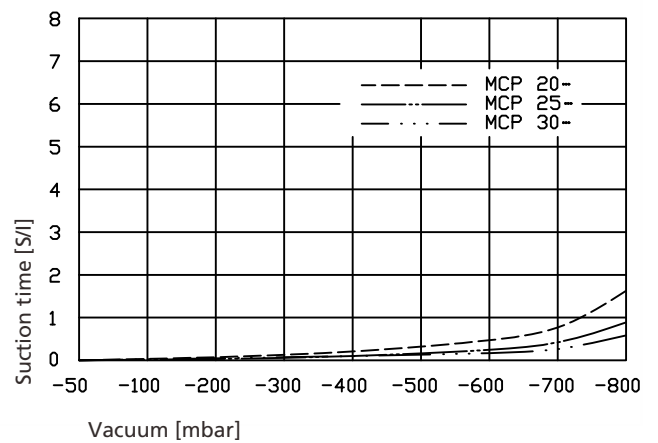
Type	Nozzle size [mm]	Vacuum [%]	Maximum suction capacity [l/min]	Suction capacity [m³/h]	Air consumption suction [l/min]	Air consumption suction [m³/h]	Maximum air consumption suction [l/min]
MCP 20 RP	2.0	85	116	7.0	190	11.4	200
MCP 25 RP	2.5	85	161	9.7	310	18.6	200
MCP 30 RP	3.0	85	200	12.0	420	25.2	200

Performance curve Compact Vacuum Ejectors MCP-RP

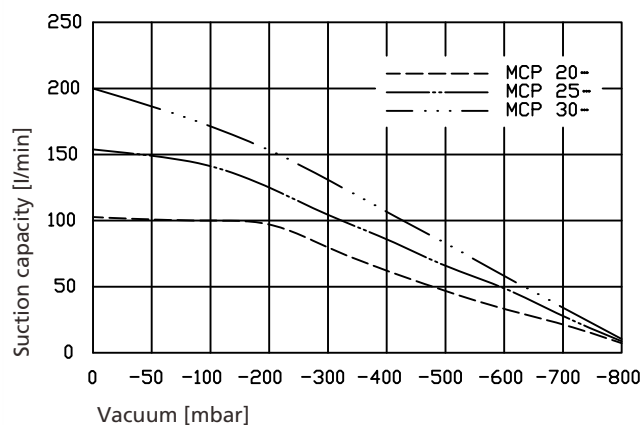
Vacuum ranges for various operating pressures



Suction times for various vacuum ranges



Suction capacity for various vacuum ranges



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Suction capacity for various vacuum ranges [l/min]

Type	Vacuum [mbar]									
	0	-50	-100	-200	-300	-400	-500	-600	-700	-800
MCP 20 RP	116.0	108.0	101.0	90.0	78.0	63.0	48.0	36.0	18.0	5.0
MCP 25 RP	161.0	149.0	136.0	123.0	107.0	86.0	66.0	49.0	25.0	7.0
MCP 30 RP	200.0	184.0	168.0	153.0	132.0	107.0	82.0	61.0	31.0	9.0

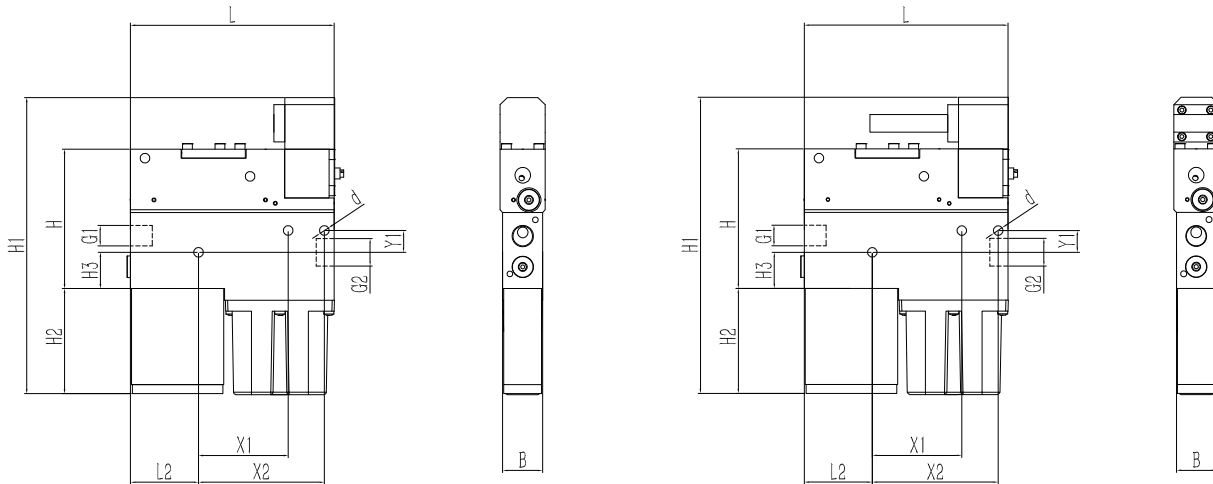
Suction capacity for various vacuum ranges [s/l]

Type	Vacuum [mbar]									
	-50	-100	-200	-300	-400	-500	-600	-700	-800	
MCP 20 RP	0.026	0.047	0.095	0.159	0.239	0.349	0.499	0.807	1.652	
MCP 25 RP	0.015	0.027	0.055	0.089	0.135	0.198	0.288	0.486	0.960	
MCP 30 RP	0.012	0.021	0.044	0.071	0.108	0.160	0.232	0.392	0.810	

Design Data Compact Vacuum Ejectors MCP-RP

MCP 20 to 30 RP

MCP 20 to 30 RP VD



Type	Dimensions [mm]												
	B	d	G1	G2	H	H1	H2	H3	L	L2	X1	X2	Y1
MCP 20 RP	22.0	5.5	G1/4"-F	G3/8"-F	77.0	164	58.5	20	112.5	37.5	49.5	69.5	12.0
MCP 25 RP	22.0	5.5	G1/4"-F	G3/8"-F	77.0	179	73.5	20	112.5	37.5	49.5	69.5	12.0
MCP 30 RP	22.0	5.5	G1/4"-F	G3/8"-F	77.0	179	73.5	20	112.5	37.5	49.5	69.5	12.0
MCP 20 RP VD	22.0	5.5	G1/4"-F	G3/8"-F	77.0	164	58.5	20	112.5	37.5	49.5	69.5	12.0
MCP 25 RP VD	22.0	5.5	G1/4"-F	G3/8"-F	77.0	179	73.5	20	112.5	37.5	49.5	69.5	12.0
MCP 30 RP VD	22.0	5.5	G1/4"-F	G3/8"-F	77.0	179	73.5	20	112.5	37.5	49.5	69.5	12.0