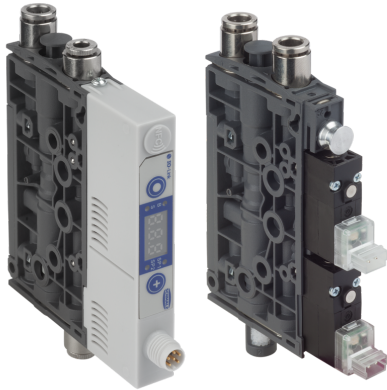
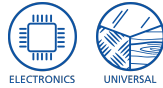
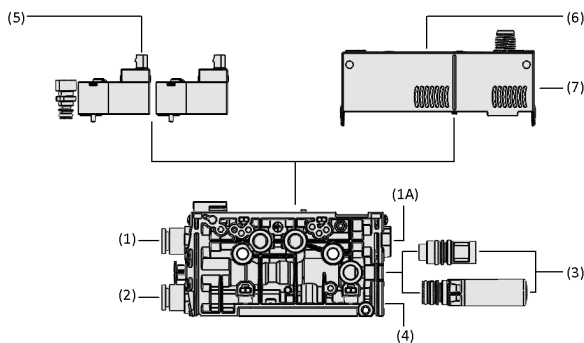


Compact Ejectors SCPMb / SCPMc / SCPMi

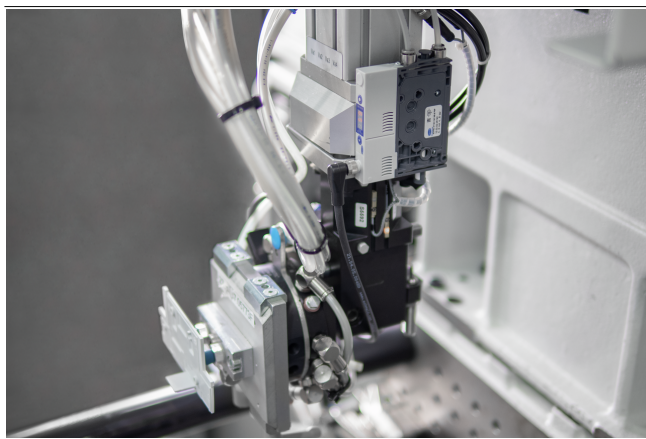
Suction rate from 2 l/min to 30 l/min



Compact Ejectors SCPMb / SCPMc / SCPMi



System design Compact Ejectors SCPMb / SCPMc / SCPMi



Compact ejectors SCPMc handling a plastic part

Suitability for industry specific applications

Application

- Mini compact ejector for handling airtight workpieces, such as display glass, plastic parts, printed-circuit boards (PCB), electronic parts or batteries
- For use in highly dynamic pick-and-place applications with extremely short cycle times, e.g. SMD machines with a small footprint
- For use in robotic handling applications and on linear axes as close to the suction cups as possible
- Fully-automatic handling applications with downtime requirements through intelligent condition monitoring
- Optional: ejector can be used in combination with an external vacuum supply

Design

- Minimal footprint thanks to compact main body made from high-strength plastics with individual control module (7)
- 3-digit display with two-button operation and electrical connection M8, 6-pin plug (6)
- Pneumatic valves optionally integrated (6) or directly mounted (5) for switching function NO or NC
- Screw for adjusting blow off function (4)
- Optional: Connector for external vacuum supply "EV"; connector for external blow-off medium "EB" (1A)
- Changeable silencer or exhaust air duct (3); compressed-air connection (1) and vacuum connection (2)

Product highlights

- Maximized suction power in the smallest space
- Robust ejector with low interference contour
- Central air supply and independent vacuum circuits allow pneumatic interlocking with up to 16 ejectors

Compact Ejectors SCPMb / SCPMc / SCPMi

Suction rate from 2 l/min to 30 l/min

Designation code Compact Ejectors SCPMb / SCPMc / SCPMi

SCPMc	–	07	–	S01	–	NC	–	M8-6	–	PNP	–	AAU
1		2		3		4		5		6		7

1 – Abbreviated designation

Code	Version
SCPMb	SCPMb (basic version)
SCPMc	SCPMc (with air saving function)
SCPMi	SCPMi (IO-Link)

2 – Nozzle size

Code	Diameter in mm
03...12	ø 0.3 to 1.2

3 – Connection

Code	Connection
S01	Push-in quick coupling 4 mm
S04	Push-in quick coupling 6 mm

4 – Idle position suction valve

Code	Type
NC	Normally closed
NO	Normally open

5 – Connection electrical

Code	Connection
M8-6	M8, 6-pole

6 – Switching function

Code	Type
PNP	Switches to plus
NPN	Switches to minus

7 – Product addition

Code	Specification
AAU	Individual configuration code

Compact ejector SCPM is delivered as a ready-to-connect product (without connection cable).

Available spare parts: silencer, filter element

Available accessories: connection cable, connection plug

Ordering data Compact Ejectors SCPMb / SCPMc / SCPMi

Type				Nozzle size:					
				03	05	07	10	12	
SCPMb	NC	-	-	10.02.02.05732	10.02.02.05734	10.02.02.05735	10.02.02.05737	10.02.02.06530	
SCPMb	NO	-	-	10.02.02.05731	10.02.02.05733	10.02.02.05591	10.02.02.05736	10.02.02.06531	
SCPMc	NC	M8-6	PNP switching	10.02.02.05739	10.02.02.05559	10.02.02.05742	10.02.02.05588	10.02.02.06532	
SCPMc	NC	M8-6	NPN switching	10.02.02.05745	10.02.02.05747	10.02.02.05749	10.02.02.05751	10.02.02.06473	
SCPMc	NO	M8-6	PNP switching	10.02.02.05738	10.02.02.05740	10.02.02.05741	10.02.02.05743	10.02.02.06534	
SCPMc	NO	M8-6	NPN switching	10.02.02.05744	10.02.02.05746	10.02.02.05748	10.02.02.05750	10.02.02.06472	
SCPMi	NC	M8-6	-	10.02.02.05753	10.02.02.05755	10.02.02.05757	10.02.02.05692	10.02.02.06533	
SCPMi	NO	M8-6	-	10.02.02.05752	10.02.02.05754	10.02.02.05756	10.02.02.05758	10.02.02.06535	

Ordering data Spare parts Compact Ejectors SCPMb / SCPMc / SCPMi

Spare parts		Part no.
Silencer insert (round)	SD-EINS 6.4x21.8 SCPMi/c/b	10.02.02.05403
Set of parts subject to wear ejector	VST SCPMi/c/b	10.02.02.06536

Compact Ejectors SCPMb / SCPMc / SCPMi

Suction rate from 2 l/min to 30 l/min

Ordering data Accessories Compact Ejectors SCPMb / SCPMc / SCPMi

Accessories		Part no.
Mounting bracket	BEF-WIN 15x50x36.1 1.5 SCPM	10.02.02.05824 
Thread adapter (inst)	ADP-G M5-IG 10.5x8.6 SCPMi/c/b	10.02.02.05643
Mounting set	SET SCPM MOUNT1	10.02.02.05805 
Silencer (round)	SD 10.5x31.7 SCPM	10.02.02.05807
Exhaust air set	ABL-SET SCPMi/c/b	10.02.02.06080
Plug union, straight	STV-GE M5-AG 4	10.08.02.00468
Plug union, straight	STV-GE M7-AG 6	10.08.02.00469

Type	Connection cable for solenoid valves, 3 m, PUR	Connection cable for SCPMc/i, angle M8-6 socket, cable 6-pin, 2 m, PUR, angled	Connection cable for SCPMc/i, angle M8-6 socket, M12-5 plug, 2 m, PUR, angled
SCPMb	21.04.06.00086 	-	-
SCPMc	-	21.04.05.00488 	21.04.05.00489 
SCPMi	-	21.04.05.00488 	21.04.05.00489 

Type	Accessories	Part no.
SCPMb	-	-
SCPMc	Distributor	ASV SCPMi B-M8-6 2xS-M12-4 10.02.02.05602
SCPMi	Distributor	ASV SCPMi B-M8-6 2xS-M12-4 10.02.02.05602

Compact Ejectors SCPMb / SCPMc / SCPMi

Suction rate from 2 l/min to 30 l/min

Technical data Compact Ejectors SCPMb / SCPMc / SCPMi

Type		Degree of evacuation [%]	Suction rate (max.) [l/min]	Air consumption suction [l/min]*	Max. air consumption blow-off [l/min]	Pressure range (operating pressure) [bar]
SCPMb	03	87	2.00	4	10	2.0 ... 6.0 bar
SCPMb	05	87	7.50	9	10	3.5 ... 6.0 bar
SCPMb	07	87	15.00	22	10	3.5 ... 6.0 bar
SCPMb	10	87	28.00	45	10	3.5 ... 6.0 bar
SCPMb	12	92	30.00	51	10	3.5 ... 6.0 bar
SCPMc	03	87	2.21	4	10	2.0 ... 6.0 bar
SCPMc	05	87	7.50	9	10	3.5 ... 6.0 bar
SCPMc	07	87	15.00	22	10	3.5 ... 6.0 bar
SCPMc	10	87	28.00	45	10	3.5 ... 6.0 bar
SCPMc	12	92	30.00	51	10	3.5 ... 6.0 bar
SCPMi	03	87	2.21	4	10	2.0 ... 6.0 bar
SCPMi	05	87	7.50	9	10	3.5 ... 6.0 bar
SCPMi	07	87	15.00	22	10	3.5 ... 6.0 bar
SCPMi	10	87	28.00	45	10	3.5 ... 6.0 bar
SCPMi	12	92	30.00	51	10	3.5 ... 6.0 bar

*At optimal operating pressure (4 bar)

Type		Sound pressure level free [dB(A)]*	Sound pressure level suction [dB(A)]	Recommended hose internal diameter compressed air [mm]**	Recommended hose internal diameter vacuum [mm]***	Weight [g]	Operating temperature [°C]
SCPMb	03	51	42	2	2	74	0 ... 50 °C
SCPMb	05	66	55	2	2	74	0 ... 50 °C
SCPMb	07	70	70	2	2	74	0 ... 50 °C
SCPMb	10	71	72	4	4	74	0 ... 50 °C
SCPMb	12	76	75	4	4	74	0 ... 50 °C
SCPMc	03	51	42	2	2	84	0 ... 50 °C
SCPMc	05	66	55	2	2	84	0 ... 50 °C
SCPMc	07	70	70	2	2	84	0 ... 50 °C
SCPMc	10	71	72	4	4	84	0 ... 50 °C
SCPMc	12	76	75	4	4	84	0 ... 50 °C
SCPMi	03	51	42	2	2	84	0 ... 50 °C
SCPMi	05	66	55	2	2	84	0 ... 50 °C
SCPMi	07	70	70	2	2	84	0 ... 50 °C
SCPMi	10	71	72	4	4	84	0 ... 50 °C
SCPMi	12	76	75	4	4	84	0 ... 50 °C

*At optimal operating pressure (4 bar)

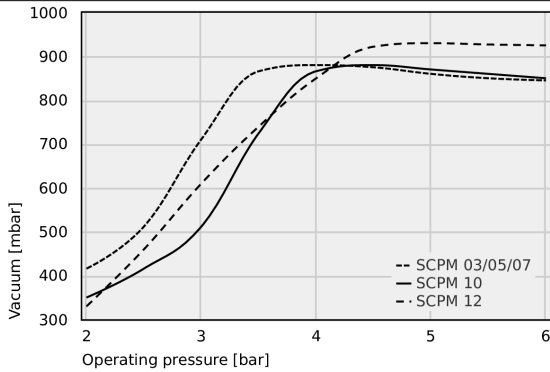
**For max. length 2 m

***For max. length 2 m

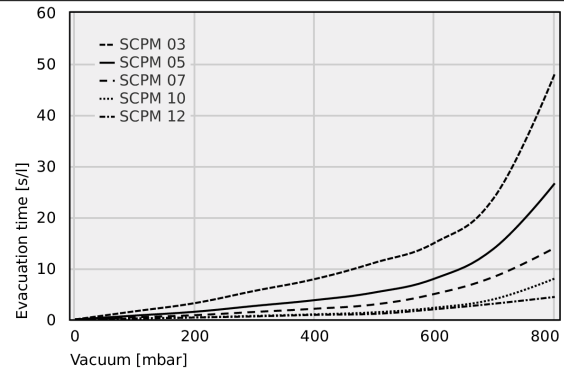
Compact Ejectors SCPMb / SCPMc / SCPMi

Suction rate from 2 l/min to 30 l/min

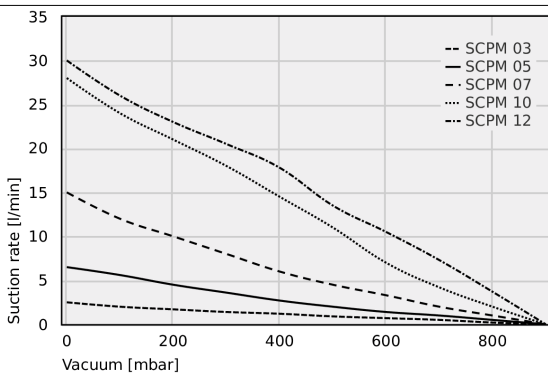
Performance data Compact Ejectors SCPMb / SCPMc / SCPMi



Achievable vacuum at various operating pressures



Evacuation time for various vacuum ranges [s/l]



Suction rate at various degrees of evacuation [l/min]

Compact Ejectors SCPMb / SCPMc / SCPMi

Suction rate from 2 l/min to 30 l/min

Achievable vacuum at various operating pressures

Typ	2	2.5	3.0	3.5	4	4.5	5	5.5	6
SCPM 03/05/07	416	512	711	866	880	875	860	850	845
SCPM 10	350	416	512	725	866	880	870	860	850
SCPM 12	330	460	610	740	850	922	930	927	925

Evacuation time for various vacuum ranges [s/l]

Typ	0	100	200	300	400	500	600	700	800
SCPM 03	0.00	1.60	3.20	5.60	7.90	11.10	15.00	24.00	48.00
SCPM 05	0.00	0.76	1.51	2.65	3.78	5.29	8.00	14.00	26.60
SCPM 07	0.00	0.42	0.84	1.47	2.10	2.94	5.00	8.40	14.00
SCPM 10	0.00	0.20	0.40	0.70	1.00	1.40	2.30	4.00	8.00
SCPM 12	0.00	0.18	0.38	0.60	0.90	1.10	2.00	3.10	4.40

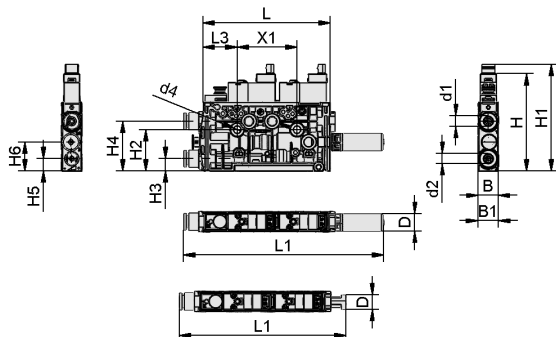
Suction rate at various degrees of evacuation [l/min]

Typ	0	100	200	300	400	500	600	700	800	900
SCPM 03	2.5	2.0	1.7	1.4	1.2	0.9	0.7	0.5	0.2	0.0
SCPM 05	6.5	5.6	4.5	3.6	2.7	2.0	1.4	1.0	0.5	0.0
SCPM 07	15.0	12.0	10.0	8.0	6.0	4.5	3.3	2.0	1.0	0.0
SCPM 10	28.0	24.0	21.0	18.0	14.5	11.0	7.0	4.2	2.0	0.0
SCPM 12	30.0	26.0	23.0	20.5	17.8	13.5	10.5	7.30	3.70	0.00

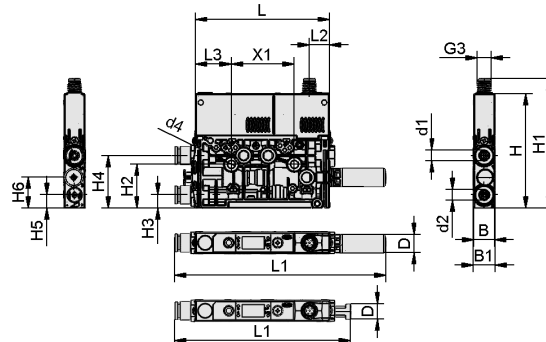
Compact Ejectors SCPMb / SCPMc / SCPMi

Suction rate from 2 l/min to 30 l/min

Design data Compact Ejectors SCPMb / SCPMc / SCPMi



SCPMb



SCPMc, SCPMi

Compact Ejectors SCPMb / SCPMc / SCPMi

Suction rate from 2 l/min to 30 l/min

Design data Compact Ejectors SCPMb / SCPMc / SCPMi

Type		B [mm]	B1 [mm]	D [mm]	d1 [mm]	d2 [mm]	d4 [mm]	G3	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	X1 [mm]
SCPMb	S01	12	12.5	9	4.2	4.2	4.3	-	41.5	64.2	24.95	7.5	30	7.5	17.5	76.5	95.3	-	20.5	36
SCPMb	S04	12	12.5	9	6.2	6.2	4.3	-	41.5	64.2	24.95	7.5	30	7.5	17.5	76.5	98.3	-	20.5	36
SCPMc	S01	12	12.5	9	4.2	4.2	4.3	M8x1-M	65.3	73.9	24.95	7.5	30	7.5	17.5	76.5	95.3	11.4	20.5	36
SCPMc	S04	12	12.5	9	6.2	6.2	4.3	M8x1-M	65.3	73.9	24.95	7.5	30	7.5	17.5	76.5	98.3	11.4	20.5	36
SCPMi	S01	12	12.5	9	4.2	4.2	4.3	M8x1-M	65.3	73.9	24.95	7.5	30	7.5	17.5	76.5	95.3	11.4	20.5	36
SCPMi	S04	12	12.5	9	6.2	6.2	4.3	M8x1-M	65.3	73.9	24.95	7.5	30	7.5	17.5	76.5	98.3	11.4	20.5	36

Type		B [mm]	B1 [mm]	D [mm]	d1 [mm]	d2 [mm]	d4 [mm]	G3	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	X1 [mm]	
SCPMb	S04	12	12	12.5	10.5	6.2	6.2	4.3	-	65.3	64.2	24.95	7.5	30	7.5	17.5	76.5	120.5	-	20.5	36
SCPMc	S04	12	12	12.5	10.5	6.2	6.2	4.3	M8x1-M	65.3	73.9	24.95	7.5	30	7.5	17.5	76.5	120.5	11.4	20.5	36
SCPMi	S04	12	12	12.5	10.5	6.2	6.2	4.3	M8x1-M	65.3	73.9	24.95	7.5	30	7.5	17.5	76.5	120.5	11.4	20.5	36

Multimedia product presentation

Medium

Product video

Link

<https://vimeo.com/147436675>
<https://vimeo.com/419837135>