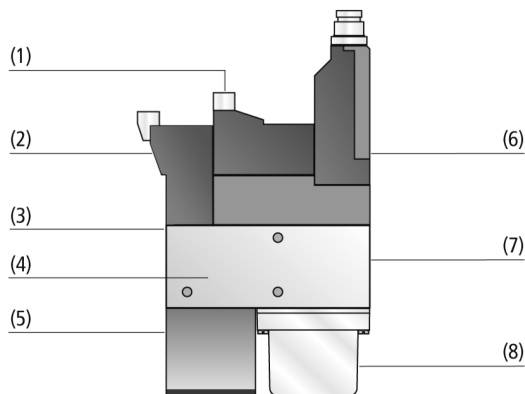


Compact Ejectors SCPM

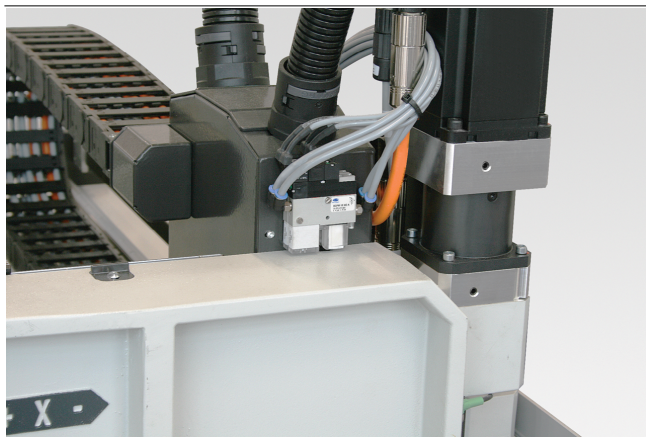
Suction rate from 6 l/min to 23 l/min



Compact Ejectors SCPM



System Design Compact Ejectors SCPM



Central vacuum generation by compact ejectors SCPM

Suitability for Industry Specific Applications

Applications

- Compact ejector for use in applications with very dynamic movements and restricted spaces
- Usage for handling with industrial robots, linear axes and in Pick & Place systems

Design

- Blow-off valve (1) in idle position, normally closed (NC)
- Suction valve (2) in idle position, can be normally open (NO) or closed (NC)
- Compressed air connection (3)
- Main body (4) made from anodized aluminum; integrated silencer (5) and filter (8)
- Vacuum connection (7), can be connected to a collective connection plate (battery mounting)
- Optionally with integrated vacuum switch (6)

Product Highlights

- Very light and compact ejectors for systems with extremely high dynamics
- Versatile modular system for various requirements
- Easy to install complete solution, including valve technology and vacuum monitoring
- Optimized air consumption due to a wide performance range with finely graduated suction rate

Compact Ejectors SCPM

Suction rate from 6 l/min to 23 l/min

Designation Code Compact Ejectors SCPM

SCPM	–	07	–	NO	–	A	–	VS-T
1		2		3		4		5

1 – Abbreviated designation

Code	Version
SCPM	SCPM

2 – Nozzle size

Code	Diameter in mm
05...10	ø 0.5 to 1

3 – Idle position suction valve

Code	Type
NC	Normally closed
NO	Normally open

4 – Blow off valve

Code	Type
A	Blow off valve

5 – System monitoring

Code	Type
VS-T	Electronic vacuum switch

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

Available spare parts: silencer, filter element (filter insert)

Available accessories: connection cable

Ordering Data Compact Ejectors SCPM

Type	Part no.
SCPM 05 NC A	10.02.02.01071
SCPM 05 NO A	10.02.02.01072
SCPM 05 NC A VS-T	10.02.02.02498
SCPM 05 NO A VS-T	10.02.02.02499
SCPM 07 NC A	10.02.02.01067
SCPM 07 NO A	10.02.02.01068
SCPM 07 NC A VS-T	10.02.02.02500
SCPM 07 NO A VS-T	10.02.02.02501
SCPM 10 NC A	10.02.02.01063
SCPM 10 NO A	10.02.02.01064
SCPM 10 NC A VS-T	10.02.02.02502
SCPM 10 NO A VS-T	10.02.02.02503

Ordering Data Spare Parts Compact Ejectors SCPM

Type	Part no.
Silencer (cube-shaped)	SD 24x9.7x20 SCPM 10.02.02.01029
Filter insert (cube shaped)	FILT-EINS 21.7 14.5 1.6 1 SCPM 10.02.02.01037

Ordering Data Accessories Compact Ejectors SCPM

Type	Part no.
Connection cable, M8 4-pole, 5 m, PUR, straight	ASK B-M8-4 5000 K-4P 10.06.02.00031
Connection cable, M8 4-pole, 5 m, PUR, 90°	ASK WB-M8-4 5000 K-4P 10.06.02.00032
Connection cable for solenoid valves, 3 m, PUR	ASK B-MIC10 3000 K-2P 21.04.06.00086

Compact Ejectors SCPM

Suction rate from 6 l/min to 23 l/min

Technical Data Compact Ejectors SCPM

Type*		Nozzle diameter [mm]	Degree of evacuation [%]	Suction rate (max.) [l/min]	Suction rate (max.) [m³/h]	Air consumption suction [l/min]**	Air consumption suction [m³/h]***	Max. air consumption blow off [l/min]
SCPM	05	0.5	85	6	0.4	13	0.8	26
SCPM	07	0.7	85	12	0.7	21	1.3	26
SCPM	10	1.0	85	23	1.4	46	2.8	26

*The supply voltage for vacuum switches and solenoid valves is 24V DC

**At optimal operating pressure (4.5 bar)

***At optimal operating pressure (4.5 bar)

Type*		Sound level suction [dB(A)]	Sound level free [dB(A)]	Optimal operating pressure [bar]	Recomm. internal hose diameter compressed air [mm]**	Recomm. internal hose diameter vacuum [mm]***	Weight [g]	Operating temperature [°C]
SCPM	05	62	62	4.5	2	2	90	0 ... 45 °C
SCPM	07	67	70	4.5	2	2	90	0 ... 45 °C
SCPM	10	73	76	4.5	2	4	90	0 ... 45 °C

*The supply voltage for vacuum switches and solenoid valves is 24V DC

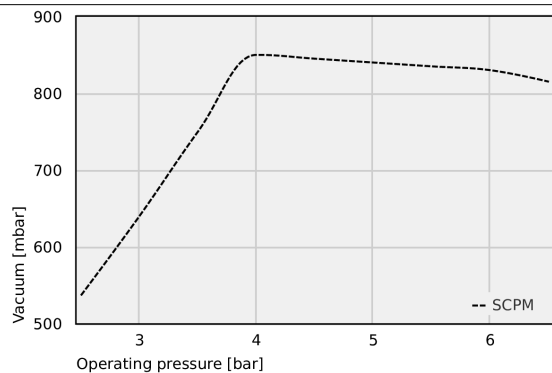
**For max. length 2 m

***For max. length 2 m

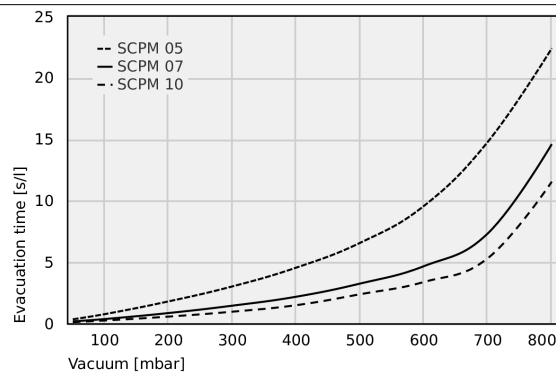
Compact Ejectors SCPM

Suction rate from 6 l/min to 23 l/min

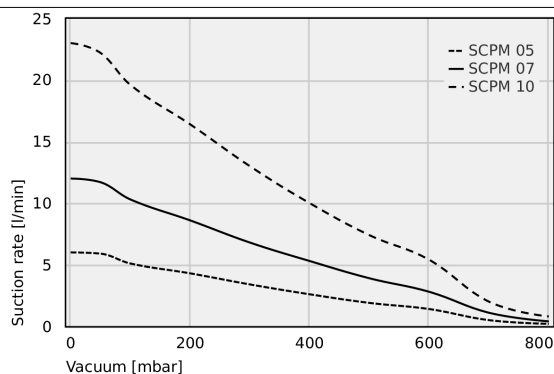
Performance Data Compact Ejectors SCPM



Achievable vacuum at various operating pressures



Evacuation times for various vacuum ranges [s/l]



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

Achievable vacuum at various operating pressures

	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
SCPM	536.61	640.00	750.00	850.00	845.00	840.00	835.00	830.00	815.00

Compact Ejectors SCPM

Suction rate from 6 l/min to 23 l/min

Evacuation times for various vacuum ranges [s/l]

	50	100	200	300	400	500	600	700	800
SCPM 05	0.34	0.76	1.80	3.02	4.55	6.57	9.58	14.80	22.40
SCPM 07	0.17	0.36	0.85	1.45	2.18	3.25	4.67	7.34	14.60
SCPM 10	0.11	0.24	0.56	0.96	1.49	2.38	3.38	5.32	11.54

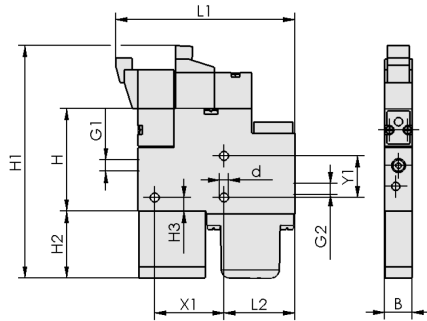
Suction capacity at various degrees of evacuation [l/min]

	0	50	100	200	300	400	500	600	700	800
SCPM 05	6.00	5.90	5.10	4.30	3.40	2.60	1.90	1.40	0.50	0.20
SCPM 07	12.00	11.70	10.30	8.60	6.80	5.30	3.90	2.80	1.10	0.40
SCPM 10	23.00	22.20	19.60	16.40	13.00	10.00	7.40	5.40	2.00	0.80

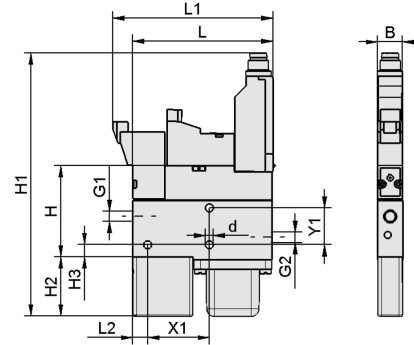
Compact Ejectors SCPM

Suction rate from 6 l/min to 23 l/min

Design Data Compact Ejectors SCPM



SCPM NC/NO A



SCPM NC/NO A VS-T

Compact Ejectors SCPM

Suction rate from 6 l/min to 23 l/min

Design Data Compact Ejectors SCPM

Type			B [mm]	d [mm]	G1	G2	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	X1 [mm]	Y1 [mm]
SCPM	05	-	10.2	3.2	M5-F	M5-F	37.5	84.0	24	5	-	64.5	25.5	25	15
SCPM	07	-	10.2	3.2	M5-F	M5-F	37.5	84.0	24	5	-	64.5	25.5	25	15
SCPM	10	-	10.2	3.2	M5-F	M5-F	37.5	84.0	24	5	-	64.5	25.5	25	15
SCPM	05	VS-T	10.2	3.2	M5-F	M5-F	37.2	106.8	24	5	56.5	64.5	6.0	25	15
SCPM	07	VS-T	10.2	3.2	M5-F	M5-F	37.2	106.8	24	5	56.5	64.5	6.0	25	15
SCPM	10	VS-T	10.2	3.2	M5-F	M5-F	37.2	106.8	24	5	56.5	64.5	6.0	25	15

Multimedia product presentation

Medium

Product video

Link

<https://vimeo.com/147436675>