

Compact ejectors

Compact ejectors SCPM



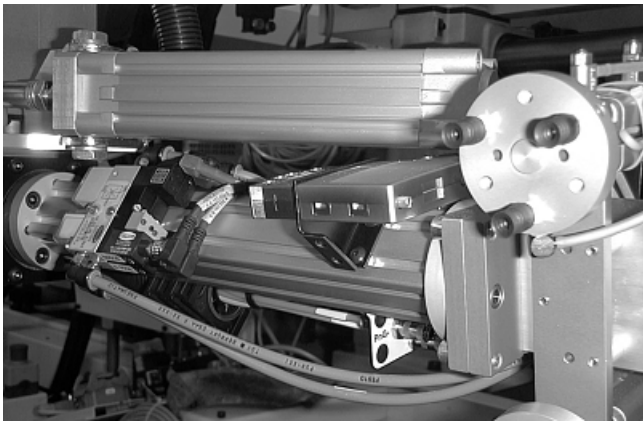
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Our highlights...

- Minimum size and very low weight
- Versatile modular system
- Integrated valves and vacuum monitoring
- Wide range of models with different performance figures

Your advantages...

- > Optimum vacuum generation directly on the suction pad, suitable for very dynamic movements
- > Flexible adaptation to customer requirements
- > Complete solution for very simple installation
- > Optimized air consumption thanks to various models with differing suction capacities



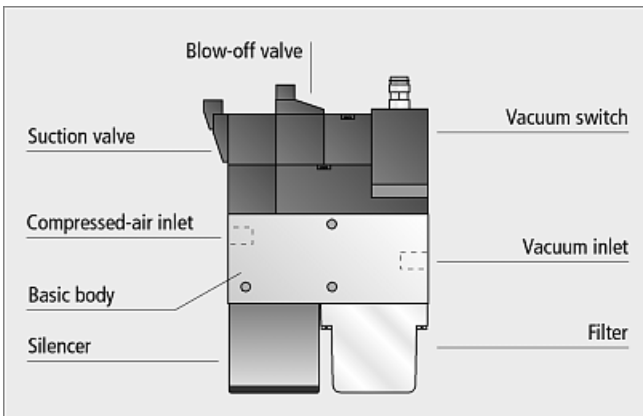
Two compact ejectors SCPM on a handling axis for removal of plastic parts

Applications

- For use in applications with very dynamic movements
- Ideal for use in restricted spaces
- Preferred applications: handling with industrial robots, linear axes and pick-and-place systems

Construction

- Anodized aluminum body with normally closed blow-off valve and either normally open (NO) or normally closed (NC) suction valve
- Integrated filter and silencer
- Can be connected to a connecting plate (block mounting)
- Compact ejectors delivered without cables



System design compact ejector SCPM



Suitability for branch-specific applications

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Designation code Compact ejectors SCPM

Short designation	Nozzle size in mm*10	Idle position, suction valve	Blow-off valve	System monitoring
Example: SCPM	07	NO	A	VS-T
SCPM	05...0.5 mm 07...0.7 mm 10...1.0 mm	NO...normally open NC...normally closed	A...blow-off valve	-... without vacuum switch VS-T... electronic vacuum switch

Ordering data Compact ejectors SCPM

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

Ordering data spare parts and accessories Compact ejectors SCPM

Type	Connection plug for solenoid valves* with cable (3 m, PUR)	Connection cable for vacuum switch (5 m, straight, PUR)	Connection cable for vacuum switch (5 m, 90°, PUR)	Replacement silencer	Replacement filter element
SCPM 05 NO/NC A	21.04.06.00086	-	-	10.02.02.01029	10.02.02.01037
SCPM 05 NO/NC A V...	21.04.06.00086	10.06.02.00031	10.06.02.00032	10.02.02.01029	10.02.02.01037
SCPM 07 NO/NC A	21.04.06.00086	-	-	10.02.02.01029	10.02.02.01037
SCPM 07 NO/NC A V...	21.04.06.00086	10.06.02.00031	10.06.02.00032	10.02.02.01029	10.02.02.01037
SCPM 10 NO/NC A	21.04.06.00086	-	-	10.02.02.01029	10.02.02.01037
SCPM 10 NO/NC A V...	21.04.06.00086	10.06.02.00031	10.06.02.00032	10.02.02.01029	10.02.02.01037

*Order 2 x per ejector.

Technical data Compact ejectors SCPM

Type	Nozzle-Ø [mm]	Degree of evacuation [%]	Max. suction rate [l/min]	Max. suction rate [m³/h]	Air consumpt. during evac. [l/min]*	Air consumpt. during evac. [m³/h]*	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

**For max. length 2 m

Type	Noise level workp. gripped [db(A)]	Noise level free [db(A)]	Operating pressure [bar]	Recomm. int. hose diameter compr. air [mm]**	Recomm. int. hose diameter vacuum [mm]**	Weight [g]	Operating temperature [°C]
SCPM 05...	62	62	4,5	2	2	80	0...45
SCPM 07...	67	70	4,5	2	2	80	0...45
SCPM 10...	73	76	4,5	2	4	80	0...45

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

*At optimal operating pressure

**For max. length 2 m

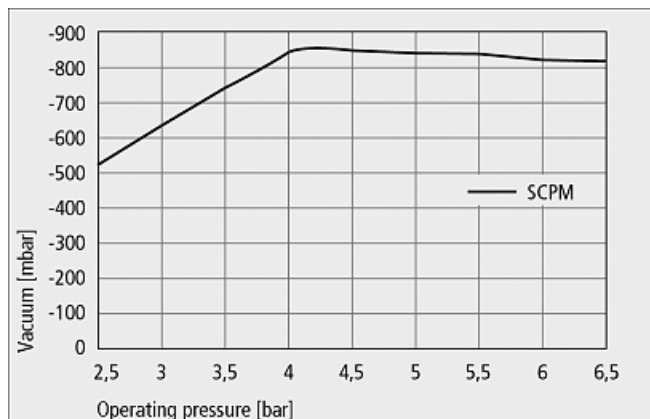
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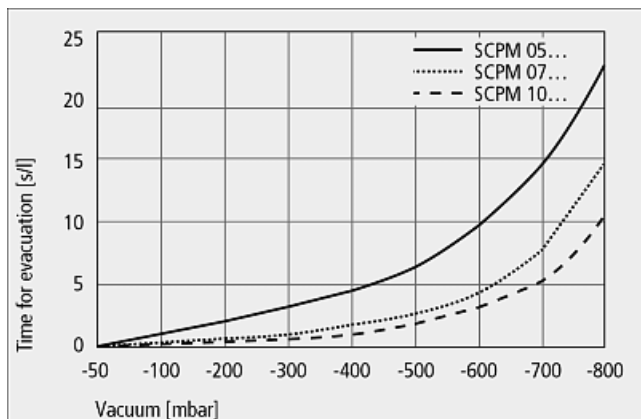


5 Vacuum generators

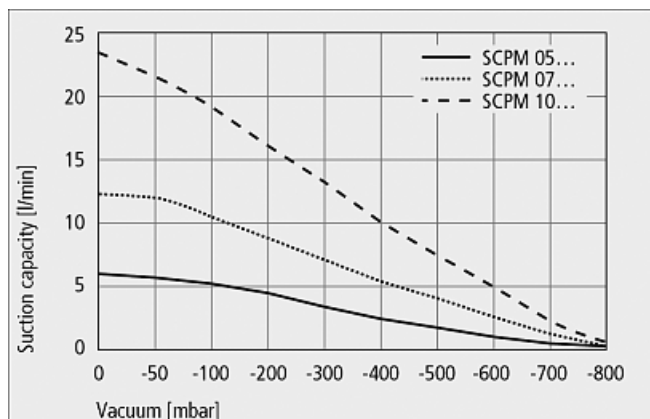
Performance data Compact ejectors SCPM



Achievable vacuum at various operating pressures



Evacuation times for various vacuum ranges



Suction capacity at various degrees of evacuation

Suction capacity in l/min at various degrees of evacuation

Type	Degree of evacuation in mbar									
	0	-50	-100	-200	-300	-400	-500	-600	-700	-800
SCPM 05...	6.0	5.9	5.1	4.3	3.4	2.6	1.9	1.4	0.5	0.2
SCPM 07...	12.0	11.7	10.3	8.6	6.8	5.3	3.9	2.8	1.1	0.4
SCPM 10...	23.0	22.2	19.6	16.4	13.0	10.0	7.4	5.4	2.0	0.8

Evacuation time in s/l for various vacuum ranges

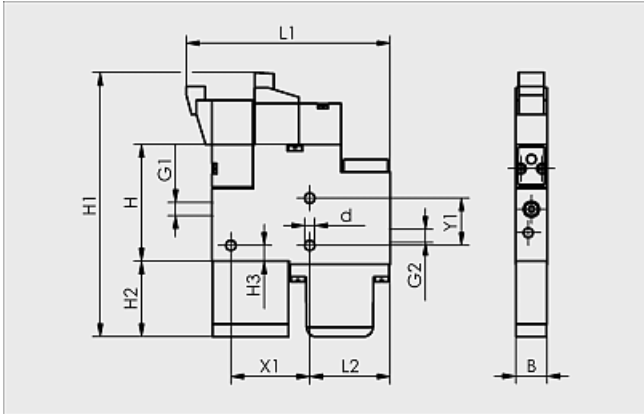
Type	Degree of evacuation in mbar									
	-50	-100	-200	-300	-400	-500	-600	-700	-800	
SCPM 05...	0.34	0.76	1.80	3.02	4.55	6.57	9.58	14.80	22.40	
SCPM 07...	0.17	0.36	0.85	1.45	2.18	3.25	4.67	7.34	14.60	
SCPM 10...	0.11	0.24	0.56	0.96	1.49	2.38	3.38	5.32	11.54	

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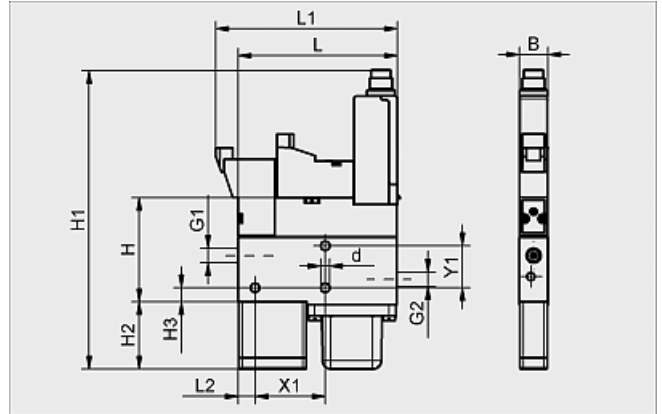
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Design data Compact ejectors SCPM



SCPM 05 to 10 NC/NO A



SCPM...VS-T

Type	Dimensions in mm												
	B	d	G1	G2	H	H1	H2	H3	L	L1	L2	X1	Y1
SCPM 05 NC/NO A	10,2	3,2	M5-F	M5-F	37,5	84,0	24	5	-	64,5	25,5	25	15
SCPM 07 NC/NO A	10,2	3,2	M5-F	M5-F	37,5	84,0	24	5	-	64,5	25,5	25	15
SCPM 10 NC/NO A	10,2	3,2	M5-F	M5-F	37,5	84,0	24	5	-	64,5	25,5	25	15
SCPM 05 NC/NO A V...	10,2	3,2	M5-F	M5-F	37,2	106,8	24	5	56,5	64,5	6,0	25	15
SCPM 07 NC/NO A V...	10,2	3,2	M5-F	M5-F	37,2	106,8	24	5	56,5	64,5	6,0	25	15
SCPM 10 NC/NO A V...	10,2	3,2	M5-F	M5-F	37,2	106,8	24	5	56,5	64,5	6,0	25	15