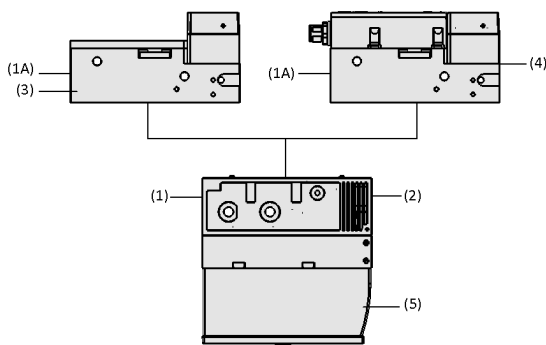


Compact Ejectors SCPb / SCPI FS RP

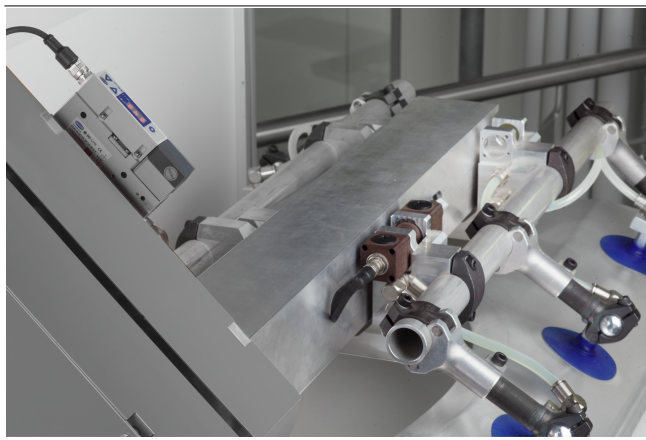
Suction rate from 75 l/min to 185 l/min



Compact Ejectors SCPb / SCPI FS RP



System design Compact Ejectors SCPb / SCPI FS RP



Compact ejectors SCPI FS RP when handling a car body part

Suitability for industry specific applications

Application

- Compact ejectors for energy-efficient and reliable vacuum generation for handling airtight and slightly porous workpieces
- Suction and blow off functions controlled via external compressed air
- Use in automated systems without external voltage supply directly on the robot or gripping device
- Use in harsh environmental conditions, e.g. greasy workpieces, contamination, air humidity or vibrations
- Pick and place applications with very short cycle times

Design

- Main body made of high strength plastic
- Integrated pneumatic air saving regulation, also without electrical interface
- Pneumatic connections for controlling the suction (1) and blow off (1A) functions; vacuum connection (2)
- Design SCPb (3) without electronic components; adjusting screw for switching point setting
- Design SCPI (4) with operating and display elements; electrical connection via standard M12 connector
- integrated silencer (5)

Product highlights

- Purely pneumatically controlled compact ejector without electronic components; minimum installation effort
- Integrated air saving function reduces compressed air consumption by up to 80 %
- Version SCPI with digital switching outputs and IO-Link for communication in common fieldbus systems
- Condition monitoring enables predictive maintenance and increases plant efficiency

Compact Ejectors SCPb / SCPI FS RP

Suction rate from 75 l/min to 185 l/min

Designation code Compact Ejectors SCPb / SCPI FS RP

SCPi-FS	–	25	–	NO	–	RP	–	M12-5
1		2		3		4		5

1 – Abbreviated designation

Code	Version
SCPb-FS	Without digital vacuum switch
SCPi-FS	With digital vacuum switch

2 – Nozzle size

Code	Diameter in mm
15...25	ø 1,5 to 2,5

3 – Idle position suction valve

Code	Type
NO	Normally open

4 – Product addition

Code	Type
RP	Pneumatic regulation

5 – Connection electrical

Code	Connection
M12-5	M12, 5-pole

The compact ejector SCPb / SCPI FS RP is supplied as a ready-to-connect product (without connection cable).

Available spare parts: Silencer

Available accessories: Connection cable

Ordering data Compact Ejectors SCPb / SCPI FS RP

Type	Part no.
SCPb-FS 15 NO RP	10.02.02.05560
SCPb-FS 20 NO RP	10.02.02.05561
SCPb-FS 25 NO RP	10.02.02.05562
SCPi-FS 15 NO RP M12-5	10.02.02.05436
SCPi-FS 20 NO RP M12-5	10.02.02.05438
SCPi-FS 25 NO RP M12-5	10.02.02.05440

Ordering data Spare parts Compact Ejectors SCPb / SCPI FS RP

Type	Part no.
Silencer	SD 111x21x45 SMPi/SCPi 10.02.02.03381

Ordering data Accessories Compact Ejectors SCPb / SCPI FS RP

Type	Part no.
Connection cable, M12 5-pole, 5 m, PUR, straight	ASK B-M12-5 5000 K-5P 21.04.05.00080
Connection cable, M12 5-pole, M12 5-pole, 1 m, PUR, straight	ASK B-M12-5 1000 S-M12-5 21.04.05.00158

Compact Ejectors SCPb / SCPi FS RP

Suction rate from 75 l/min to 185 l/min

Technical data Compact Ejectors SCPb / SCPi FS RP

Type		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]
SCPb	15	85	75	4.5	115	7	310
SCPb	20	85	135	8.1	190	12	310
SCPb	25	85	185	11.1	290	18	310
SCPi	15	85	75	4.5	115	7	310
SCPi	20	85	135	8.1	190	12	310
SCPi	25	85	185	11.1	290	18	310

Type		Sound pressure level free [dB(A)]	Sound pressure level suction [dB(A)]	Pressure range (operating pressure) [bar]	Recommended hose internal diameter compressed air [mm]*	Recommended hose internal diameter vacuum [mm]**	Weight [g]	Operating temperature [°C]
SCPb	15	76	66	4.0 ... 7.0 bar	6	6	585	5 ... 50 °C
SCPb	20	76	73	4.0 ... 7.0 bar	6	8	585	5 ... 50 °C
SCPb	25	77	74	4.0 ... 7.0 bar	6	9	585	5 ... 50 °C
SCPi	15	76	66	4.0 ... 7.0 bar	6	6	615	5 ... 50 °C
SCPi	20	76	73	4.0 ... 7.0 bar	6	8	615	5 ... 50 °C
SCPi	25	77	74	4.0 ... 7.0 bar	6	9	615	5 ... 50 °C

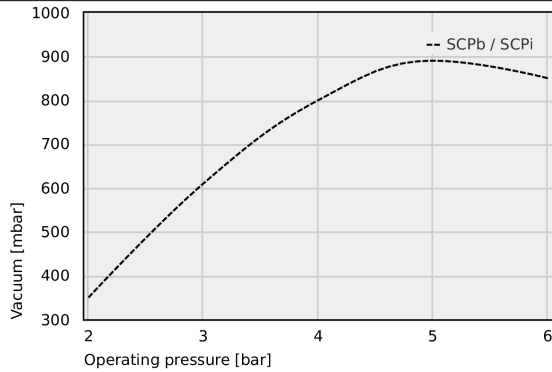
*For max. length 2 m

**For max. length 2 m

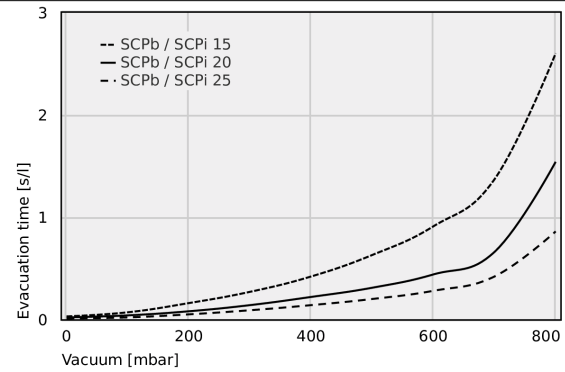
Compact Ejectors SCPb / SCPi FS RP

Suction rate from 75 l/min to 185 l/min

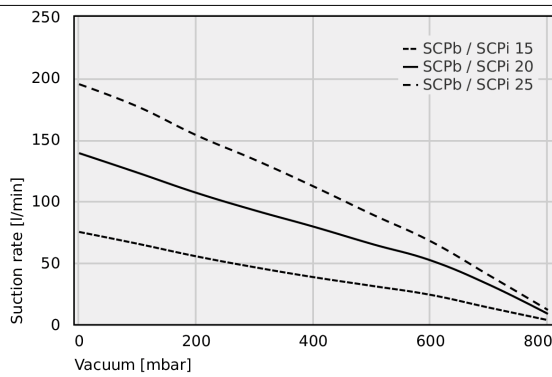
Performance data Compact Ejectors SCPb / SCPi FS RP



Achievable vacuum at various operating pressures



Evacuation time for various vacuum ranges [s/l]



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

Achievable vacuum at various operating pressures

	2	3	4	5	6
SCPb / SCPi	350	610	800	890	850

Compact Ejectors SCPb / SCPI FS RP

Suction rate from 75 l/min to 185 l/min

Evacuation time for various vacuum ranges [s/l]

	0	100	200	300	400	500	600	700	800
SCPb / SCPI 15	0.03	0.07	0.16	0.27	0.42	0.63	0.91	1.37	2.60
SCPb / SCPI 20	0.02	0.04	0.08	0.14	0.22	0.31	0.44	0.66	1.54
SCPb / SCPI 25	0.01	0.02	0.05	0.09	0.14	0.20	0.28	0.42	0.86

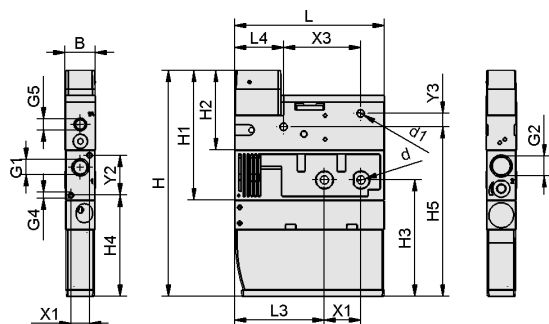
Suction rate at various degrees of evacuation [l/min]

	0	100	200	300	400	500	600	700	800
SCPb / SCPI 15	75.0	65.4	55.2	46.3	38.3	31.2	23.9	13.5	3.4
SCPb / SCPI 20	139.0	123.1	106.8	92.5	79.3	65.2	51.9	32.1	8.5
SCPb / SCPI 25	195.0	176.8	153.6	133.6	112.0	89.3	67.4	39.7	11.7

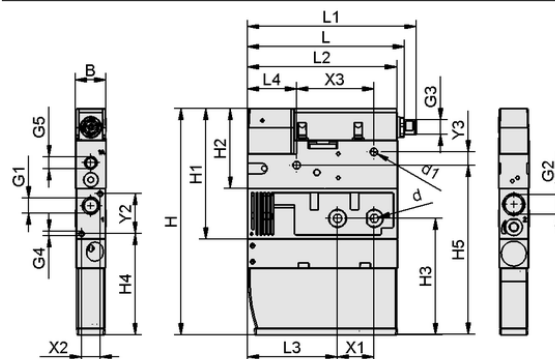
Compact Ejectors SCPb / SCPI FS RP

Suction rate from 75 l/min to 185 l/min

Design data Compact Ejectors SCPb / SCPI FS RP



SCPI FS RP



SCPb FS RP

Compact Ejectors SCPb / SCPI FS RP

Suction rate from 75 l/min to 185 l/min

Design data Compact Ejectors SCPb / SCPI FS RP

Type	B [mm]	d [mm]	d1 [mm]	G1	G2	G3	G4	G5	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	X1 [mm]	X2 [mm]	X3 [mm]	Y2 [mm]	Y3 [mm]
SCPb	23	7	6	G1/4"- F	G3/8"- F	-	M4- IG	G1/8- IG	170.0	98	60.0	88	76	128	112.5	-	-	68	37	28	14	58	30	10
SCPi	23	7	6	G1/4"- F	G3/8"- F	M12x1- AG	M4- IG	G1/8- IG	170.0	98	60.0	88	76	128	118.0	127	113	68	37	28	14	58	30	10

Multimedia product presentation

Medium

Product video

Link

<https://vimeo.com/147436675>

<https://vimeo.com/499226536>