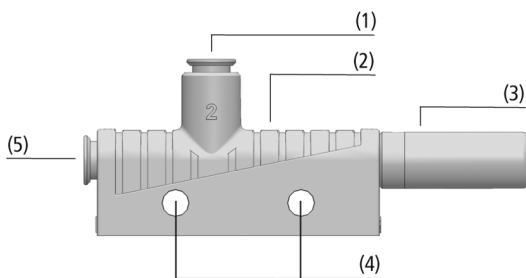


Basic Ejectors SBP

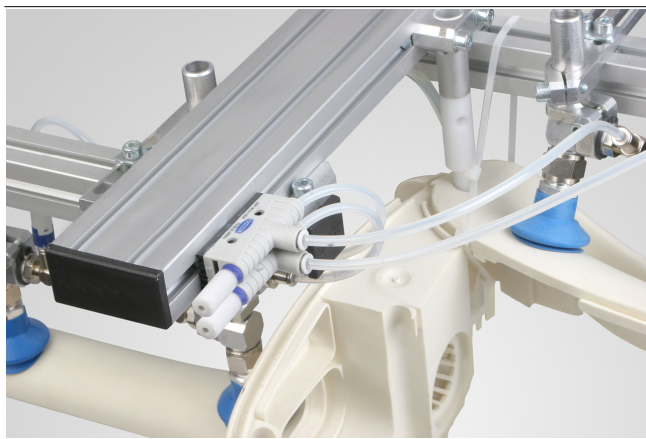
Suction rate from 8 l/min to 215 l/min



Basic Ejectors SBP



System design Basic Ejectors SBP



Decentral vacuum generation with basic ejectors SBP when handling plastic injection molded parts

Suitability for industry specific applications

Application

- Basic ejector with main body made of plastic for use in handling systems
- Handling of electronic components
- Use in separation systems for plastic and sheet-metal machining
- Construction of ejector blocks for decentralized individual control of suction cups

Design

- One piece housing (2) made of light, impact resistant plastic
- Connection of compressed air (5) and vacuum (1) with quick action push-in coupling (S01 to S03) or threaded holes (G01 to G03)
- Open silencer (3)
- Vacuum generator with single-stage nozzle, available in six power ratings, 0.5 to 2.5 mm
- Can be fixed horizontally with mounting holes (4) or vertically with the base on a mounting plate
- Optional mounting with mounting plate and mounting kit on DIN top-hat rails

Product highlights

- Compact, lightweight plastic housing optimized for decentralized vacuum supply in highly dynamic processes
- Fine power gradation (six levels) for minimum air consumption
- Compact and easy to install, since connections either with thread or plug-in connection
- Open, maintenance-friendly silencer

Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

Designation code Basic Ejectors SBP

SBP	–	05	–	G01	–	SDA
1		2		3		4

1 – Abbreviated designation

Code	Version
SBP	SBP

2 – Nozzle size

Code	Diameter in mm
05...25	ø 0.5 to 2.5

3 – Connection

Code	Connection
G01	Connection thread 1
G02	Connection thread 2
G03	Connection thread 3
S01	Quick connect push-in coupling 1
S02	Quick connect push-in coupling 2
S03	Quick connect push-in coupling 3

4 – Variant

Code	Type
SDA	Silencer axial

The basic ejector SBP is delivered as a ready-to-connect product.

Available spare parts: silencer

Available accessories: mounting plate, mounting set

Ordering data Basic Ejectors SBP

Type*	G01	G02	G03	S01	S02	S03
SBP 05	10.02.01.00599 	-	-	10.02.01.00563 	-	-
SBP 07	10.02.01.00600	-	-	10.02.01.00564	-	-
SBP 10	-	10.02.01.00601 	-	-	10.02.01.00565 	-
SBP 15	-	10.02.01.00602 	-	-	10.02.01.00566 	-
SBP 20	-	-	10.02.01.00603 	-	-	10.02.01.00567 
SBP 25	-	-	10.02.01.00604 	-	-	10.02.01.00568 

*Connection geometry: see design data of basic ejectors SBP

Ordering data Spare parts Basic Ejectors SBP

Type	Spare parts	Part no.
SBP 05	Silencer (round)	SD M5-AG 9x24
SBP 07	Silencer (round)	SD M5-AG 9x24
SBP 10	Silencer (round)	SD G1/8-AG 14x40
SBP 15	Silencer (round)	SD G1/8-AG 14x40
SBP 20	Silencer (round)	SD G3/8-AG 20x76 SBP
SBP 25	Silencer (round)	SD G3/8-AG 20x76 SBP

Ordering data Accessories Basic Ejectors SBP

Type	Artikelnummer Mounting plate	Artikelnummer Mounting set
SBP	10.02.01.00511	10.02.01.00769

Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

Technical data Basic Ejectors SBP

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]**	Sound pressure level suction [dB(A)]
SBP	05	0.5	85	8.0	0.5	14	0.8	53
SBP	07	0.7	85	16.0	1.0	22	1.3	59
SBP	10	1.0	85	37.7	2.3	48	2.9	59
SBP	15	1.5	85	71.0	4.3	105	6.3	65
SBP	20	2.0	85	127.0	7.6	197	11.8	68
SBP	25	2.5	85	215.0	12.9	311	18.7	70

*At optimal operating pressure

**At optimal operating pressure

Type		Sound pressure level free [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]
SBP	05	58	3.0 ... 6.0 bar	2	2	7.5	0 ... 60 °C
SBP	07	65	3.0 ... 6.0 bar	2	2	7.5	0 ... 60 °C
SBP	10	65	3.0 ... 6.0 bar	4	6	22.0	0 ... 60 °C
SBP	15	72	3.0 ... 6.0 bar	4	6	22.0	0 ... 60 °C
SBP	20	77	3.0 ... 6.0 bar	6	7	50.0	0 ... 60 °C
SBP	25	78	3.0 ... 6.0 bar	6	7	50.0	0 ... 60 °C

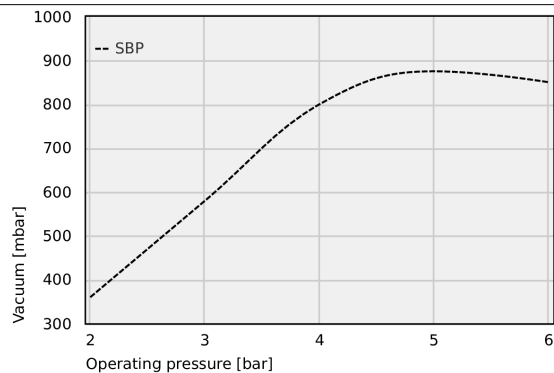
*For max. length 2 m

**For max. length 2 m

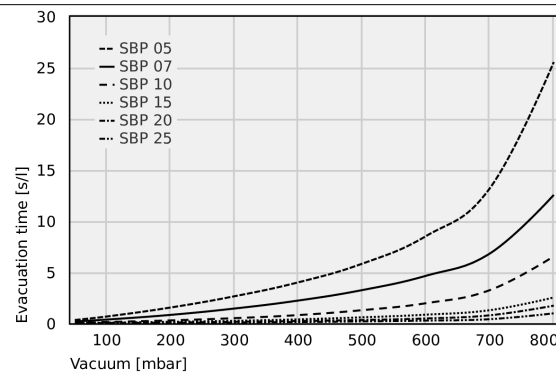
Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

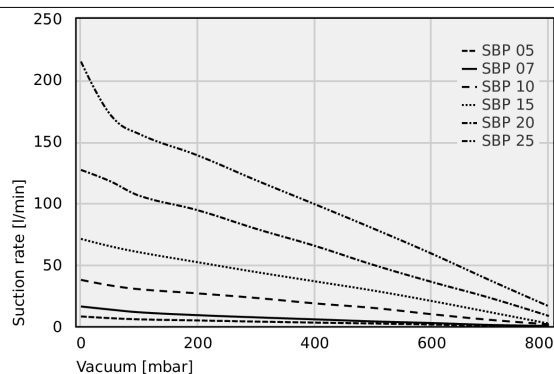
Performance data Basic Ejectors SBP



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
SBP	360.00	580.00	800.00	875.00	850.00

Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

Evacuation time for various vacuum ranges [s/l]

	50	100	200	300	400	500	600	700	800
SBP 05	0.34	0.68	1.56	2.66	4.02	5.84	8.54	13.22	25.54
SBP 07	0.20	0.38	0.84	1.46	2.24	3.26	4.66	6.84	12.56
SBP 10	0.06	0.14	0.30	0.52	0.82	1.30	1.98	3.26	6.56
SBP 15	0.05	0.08	0.16	0.26	0.40	0.60	0.86	1.30	2.54
SBP 20	0.03	0.05	0.09	0.16	0.24	0.34	0.49	0.80	1.74
SBP 25	0.03	0.04	0.07	0.09	0.14	0.20	0.28	0.42	0.99

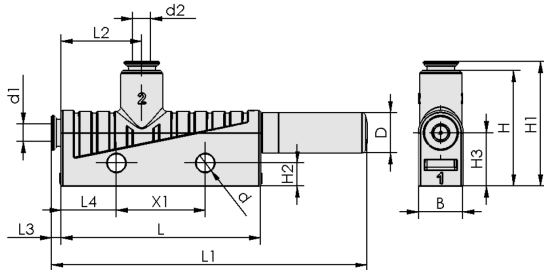
Suction rate at various degrees of evacuation [l/min]

	0	50	100	200	300	400	500	600	700	800
SBP 05	8.00	6.62	5.64	4.74	3.81	3.01	2.28	1.42	0.40	0.10
SBP 07	16.10	13.60	11.37	9.03	7.25	5.63	3.97	2.65	1.10	0.30
SBP 10	37.70	33.20	30.10	26.70	23.00	18.60	14.90	9.80	5.20	1.61
SBP 15	71.00	65.00	60.10	52.00	44.00	36.50	29.00	20.50	11.40	2.18
SBP 20	127.00	117.80	106.00	94.20	79.10	65.30	49.87	35.99	23.00	8.36
SBP 25	215.00	172.00	156.10	138.70	118.50	99.10	79.36	58.90	37.24	16.24

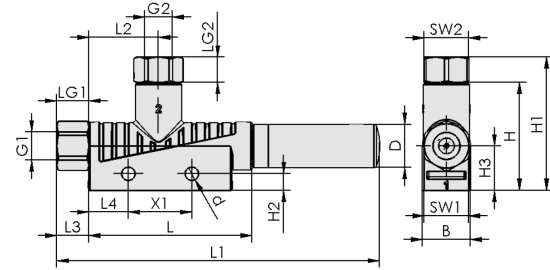
Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

Design data Basic Ejectors SBP



SBP S01 - S03



SBP G01 - G03

Basic Ejectors SBP

Suction rate from 8 l/min to 215 l/min

Design data Basic Ejectors SBP

Type			B [mm]	d [mm]	d1 [mm]	d2 [mm]	D [mm]	G1	G2	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]
SBP	05	G01	10	4.2	-	-	9	M5-F	M5-F	26	31.0	5.2	12
SBP	07	G01	10	4.2	-	-	9	M5-F	M5-F	26	31.0	5.2	12
SBP	10	G02	15	4.2	-	-	14	G1/8"-F	G1/8"-F	34	42.0	5.2	14
SBP	15	G02	15	4.2	-	-	14	G1/8"-F	G1/8"-F	34	42.0	5.2	14
SBP	20	G03	20	4.2	-	-	20	G1/4"-F	G3/8"-F	39	53.5	5.2	17
SBP	25	G03	20	4.2	-	-	20	G1/4"-F	G3/8"-F	39	53.5	5.2	17
SBP	05	S01	10	4.2	4	4	9	-	-	26	28.0	5.2	12
SBP	07	S01	10	4.2	4	4	9	-	-	26	28.0	5.2	12
SBP	10	S02	15	4.2	6	8	14	-	-	34	40.0	5.2	14
SBP	15	S02	15	4.2	6	8	14	-	-	34	40.0	5.2	14
SBP	20	S03	20	4.2	8	10	20	-	-	39	45.5	5.2	17
SBP	25	S03	20	4.2	8	10	20	-	-	39	45.5	5.2	17

Type			L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	LG1 [mm]	LG2 [mm]	SW1 [mm]	SW2 [mm]	X1 [mm]
SBP	05	G01	45.0	74	18.0	5.0	12.5	5	5	8	8	20
SBP	07	G01	45.0	74	18.0	5.0	12.5	5	5	8	8	20
SBP	10	G02	51.5	102	22.0	10.0	12.5	8	8	14	14	20
SBP	15	G02	51.5	102	22.0	10.0	12.5	8	8	14	14	20
SBP	20	G03	86.5	176	24.5	13.0	12.5	9	10	17	19	20
SBP	25	G03	86.5	176	24.5	13.0	12.5	9	10	17	19	20
SBP	05	S01	45.0	71	18.0	2.0	12.5	-	-	-	-	20
SBP	07	S01	45.0	71	18.0	2.0	12.5	-	-	-	-	20
SBP	10	S02	51.5	97	22.0	5.5	12.5	-	-	-	-	20
SBP	15	S02	51.5	97	22.0	5.5	12.5	-	-	-	-	20
SBP	20	S03	86.5	168	24.5	5.5	12.5	-	-	-	-	20
SBP	25	S03	86.5	168	24.5	5.5	12.5	-	-	-	-	20