



SCPLb 50 HV G SA NC NPN

Technical data

Attribute	Value
Construction vacuum switch	NPN switching
Electrical connection	Male connect M12, 5 pol
Degree of evacuation	90.0 %
Air consumption suction	210.0 l/min
Suction rate (max.)	510.0 l/min
Size	50.00
Thread G1	G3/8" -F
Thread G2	G3/4" -F
Shape compact ejectors	Silencer axial
Shape	High vacuum
Control valve	Normally closed

The compact ejector SCPLb / SCPLc / SCPLi, available in various configurations, is delivered as a ready-to-connect product.

Available spare parts: silencer, SEP nozzle, filter screen

Available accessories: retrofit kit, mounting bracket, vacuum hose, hose sleeve, connection cable, vacuum monitoring, silencer, exhaust air collection duct

Compact ejector

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Design data

Attribute	Value
Length L1	297.00 mm
Length L2	54.50 mm
Length L	153.50 mm
Width B2	13.80 mm
Width B	66.00 mm
Height H1	74.00 mm
Height H	72.00 mm
Internal diameter d	5.50 mm
Thread G1	G3/8"-F
Thread G2	G3/4"-F
Shape compact ejectors	Silencer axial
Length L4	113.50 mm
Width B3	34.00 mm
Hole spacing Y1	62.0 mm
Hole spacing Y2	60.0 mm
Hole spacing X1	73.5 mm
Hole spacing X2	124.5 mm
Length L5	13.50 mm
Thread G3	M4-F
Thread G5	M12x1-M

Design data SCPLb 50 HV G SA NC NPN



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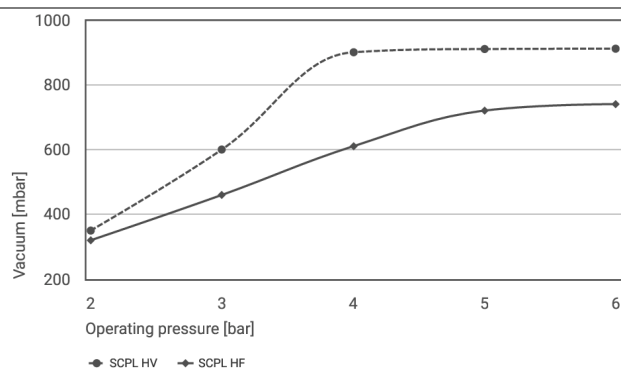
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**Technical data**

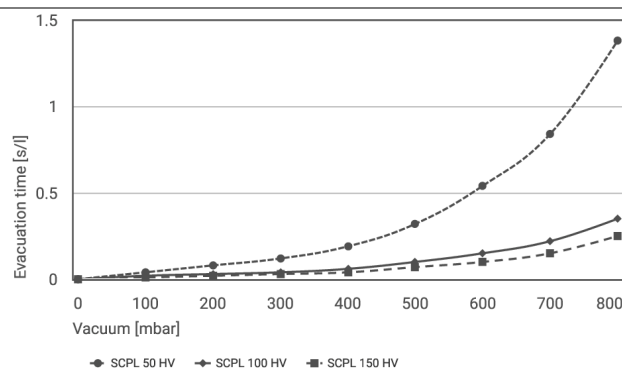
Attribute	Value
Construction vacuum switch	NPN switching
Electrical connection	Male connect M12, 5 pol
Protection type IP	IP 54
Nozzle size	1.6 mm (three-stage)
Recommended hose internal diameter compressed air	6.0 mm
Recommended hose internal diameter vacuum	25.0 mm
Degree of evacuation	90.0 %
Max. vacuum	900 mbar
Sound pressure level suction	59.0 dB(A)
Sound pressure level free	66.0 dB(A)
Weight	850.00 g
Max. air consumption blow-off	124.0 l/min
Air consumption blow-off	7.400 m ³ /h
Air consumption suction	12.600 m ³ /h
Suction rate (max.)	30.600 m ³ /h
Optimal operating pressure	4.50 bar
Pressure range (operating pressure) [bar]	3.0 ... 6.0 bar
Operating temperature	0 ... 55 °C
Control valve	Normally closed



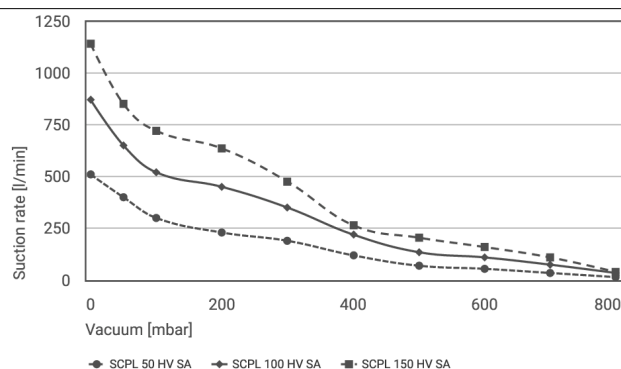
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**Performance data**

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
SCPL HV	350.00	600.00	900.00	910.00	911.00
SCPL HF	320.00	460.00	610.00	720.00	740.00



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**Evacuation time for various vacuum ranges [s/l]**

	0	100	200	300	400	500	600	700	800
SCPL 50 HV	-	0.04	0.08	0.12	0.19	0.32	0.54	0.84	1.38
SCPL 100 HV	-	0.02	0.03	0.04	0.06	0.10	0.15	0.22	0.35
SCPL 150 HV	-	0.01	0.02	0.03	0.04	0.07	0.10	0.15	0.25

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

	0	50	100	200	300	400	500	600	700	800
SCPL 50 HV SA	510	400	300	230	190	120	70	55	35	15
SCPL 100 HV SA	870	650	520	450	350	220	135	110	75	35
SCPL 150 HV SA	1140	850	720	635	475	265	205	160	110	40

**Further documentation**CAD data and other documents relating to the article can be found at: www.schmalz.com/10.02.02.07567**Ordering Data Accessories 10.02.02.07567**

Typ		Item number
Connection cable	ASK B-M12-5 5000 K-5P	21.04.05.00080
Connection cable	ASK B-M12-5 1000 S-M12-5	21.04.05.00158
Connection cable	ASK B-M12-5 2000 S-M12-5	21.04.05.00211
Mouting bracket (inst.)	BEF-WIN 72x25x77 SBPL/SCPL	10.02.01.01705
Exhaust air set	ABL-SET SBPL/SCPL M	10.02.01.01939
Exhaust air set	ABL-SET SBPL/SCPL L	10.02.01.01940
Hose sleeve	ST 25 AL-EL	10.02.01.01680
Vacuum cup filter	VFT G3/4-IG 80	10.07.01.00128
Vacuum gauge	VAM 40 V DR BAR	10.07.02.00035
Vacuum gauge (electronic)	VAM-D 30x30 VP10 G1/8-AG	10.07.02.00055
Retrofitting kit	SET SBPL/SCPL 75/100	10.02.01.01685
Extension (round)	VRL-R G3/4 44.5x39 AL	10.02.01.02096



Compact ejector

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Ordering Data Spare Parts 10.02.02.07567

Typ		Item number
Ejector module	SEP HV 3 16 22	10.02.01.01397
Set of spare parts	ERS SEP-22 6xRUE-KLAP	10.02.01.01450
Spare part (Ejector)	ERS VENT SCPLb/c	10.02.02.07698
Silencer (cube-shaped-inst.)	SD 102x71x33 SBPL/SCPL	10.02.01.01585
Sealing frame	DI-RA 112.5x34.8 NBR-55 SBPL/SCPL	10.02.01.01541
O-ring	O-RING 10x2.5 NBR-70	10.07.08.00002
Sieve, round	SIEB 36.2x0.2 A2 400 0.4/0.22	10.02.02.07119



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