Mini compact ejector

SCPMc-Q 03 S01 NO M8-6 NPN

Art.-Nr.: 10.02.02.08364



SCPMc-Q 03 S01 NO M8-6 NPN

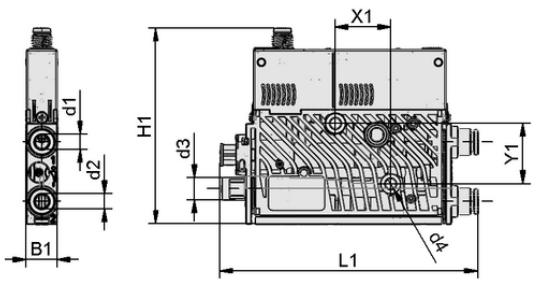
Technical data

Attribute	Value
Construction vacuum switch	NPN switching
Electrical connection	Male connect M8, 6 pole
Protection type IP	IP 40 (with plug)
Nozzle size	0.3 mm
Max. vacuum	870 mbar
Sound pressure level free	51.0 dB(A)
Air consumption suction	3.5 l/min
Suction rate (max.)	2.2 l/min
At operating pressure	3,0 ... 6,0
Connection	Hose D4(1)-D4(2)
Pressure range (operating pressure) [bar]	3.0 ... 6.0 bar
Control valve	Normally open

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

Available spare parts: valve set, piston module, solenoid valve, control unit, nozzle string, main body, basic set

Available accessories: connection cable, mounting kit, connection adapter for SCPM, exhaust air kit, threaded adapter, plug-in screw union, vacuum filter



Design data SCPMc-Q 03 S01 NO M8-6 NPN

Design data

Attribute	Value
Length L1	99.60 mm
Width B1	12.00 mm
Height H1	77.90 mm
Internal diameter d1	4.2 mm
d2	4.2 mm
Hole size d3	8.7 mm
Hole spacing Y1	24.0 mm
Hole spacing X1	22.0 mm
Hole size d4	4.5 mm

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Technical data

Attribute	Value
Construction vacuum switch	NPN switching
Control valve	NO
Nozzle size	0.3 mm
Recommended hose internal diameter compressed air	2.0 mm
Recommended hose internal diameter vacuum	2.0 mm
Degree of evacuation	87.0 %
Max. vacuum	870 mbar
Sound pressure level suction	42.0 dB(A)
Sound pressure level free	51.0 dB(A)
Weight	88.50 g
Max. air consumption blow-off	64.0 l/min
Air consumption suction	3.5 l/min
Suction rate (max.)	2.2 l/min
Optimal operating pressure	4.00 bar
Connection	Hose D4(1)-D4(2)
Pressure range (operating pressure) [bar]	3.0 ... 6.0 bar
Operating temperature	0 ... 50 °C
Product family	SCPMc-Q
Electrical connection	M8-6

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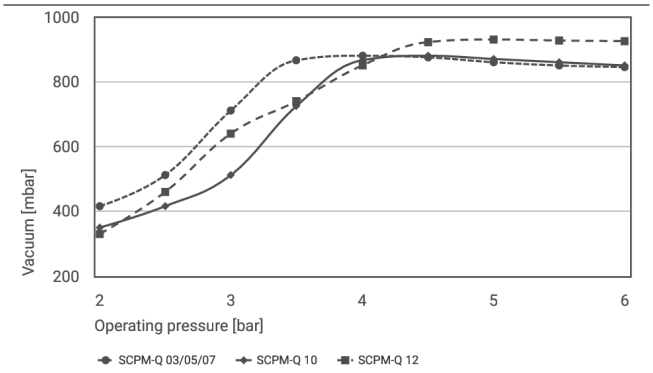
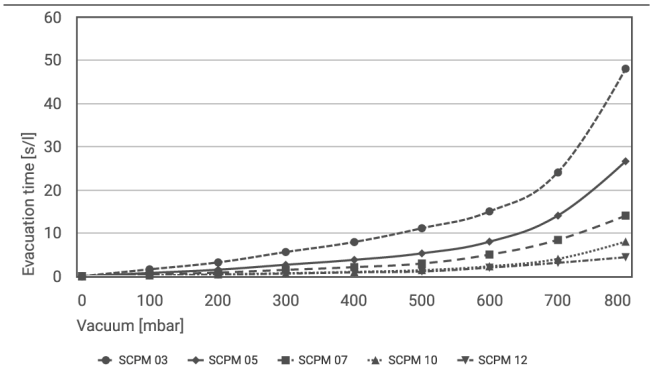
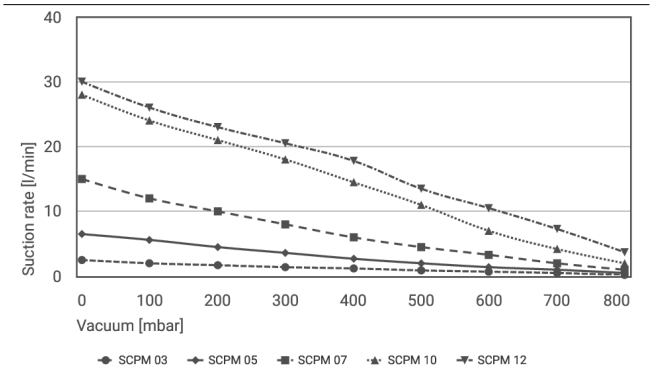
Performance data



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

Typ	2	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
SCPM-Q 03/05/07	416	512	711	866	880	875	860	850	845
SCPM-Q 10	350	416	512	725	866	880	870	860	850
SCPM-Q 12	330	460	640	740	850	922	930	927	925

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Evacuation time for various vacuum ranges [s/l]

Typ	0	100	200	300	400	500	600	700	800
SCPM 03	0.00	1.60	3.20	5.60	7.90	11.10	15.00	24.00	48.00
SCPM 05	0.00	0.76	1.51	2.65	3.78	5.29	8.00	14.00	26.60
SCPM 07	0.00	0.42	0.84	1.47	2.10	2.94	5.00	8.40	14.00
SCPM 10	0.00	0.20	0.40	0.70	1.00	1.40	2.30	4.00	8.00
SCPM 12	0.00	0.18	0.38	0.60	0.90	1.10	2.00	3.10	4.40

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

Typ	0	100	200	300	400	500	600	700	800
SCPM 03	2.5	2.0	1.7	1.4	1.2	0.9	0.7	0.5	0.2
SCPM 05	6.5	5.6	4.5	3.6	2.7	2.0	1.4	1.0	0.5
SCPM 07	15.0	12.0	10.0	8.0	6.0	4.5	3.3	2.0	1.0
SCPM 10	28.0	24.0	21.0	18.0	14.5	11.0	7.0	4.2	2.0
SCPM 12	30.0	26.0	23.0	20.5	17.8	13.5	10.5	7.3	3.7

Further documentation

CAD data and other documents relating to the article can be found at: **www.schmalz.com/10.02.02.08364**

Ordering Data Accessories 10.02.02.08364

Typ		Item number
Connection cable	ASK WB-M8-6 2000 K-6P	21.04.05.00488
Connection cable	ASK B-M8-6 5000 K-6P	21.04.05.00255
Connection cable	ASK WB-M8-6 2000 S-M12-5	21.04.05.00489
Distributor	ASV SCPMi B-M8-6 2xS-M12-4	10.02.02.05602
Mounting set	SET SCPMb/c/i-Q	10.02.02.08390
Mounting bracket	BEF-WIN 15x45.6x50 1.5 SCPMb/c/i-Q	10.02.02.08391
Mounting bracket	BEF-WIN 12x45x50 SCPMb/c/i-Q	10.02.02.08392
Exhaust air set	ABL-SET SCPMi/c/b	10.02.02.06080
Thread adapter (inst)	ADP-G M7-IG 10.8x7.9 SCPMi/c/b	10.02.02.05522
Thread adapter (inst)	ADP-G M5-IG 10.5x8.6 SCPMi/c/b	10.02.02.05643
Plug union, straight	STV-GE M5-AG 4	10.08.02.00468
Plug union, straight	STV-GE M7-AG 6	10.08.02.00469
Vacuum filter (inline)	VFI 6/4 50	10.07.01.00328

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Ordering Data Spare Parts 10.02.02.08364

Typ		Item number
Controller	STEU 24V-DC NP M8-6 NPN SCPMc	10.02.02.05496
Nozzle body (inst)	DUES-STOC 0.3/0.7 SCPMicb-Q 03	10.02.02.08243
Basic body (cube-shaped-inst.)	GK 88.25x12x49.7 SCPMicb-Q	10.02.02.07994
Basis Set	SET SCPMicb-Q	10.02.02.08250

Ordering Data Wear Parts 10.02.02.08364

Typ		Item number
Valve unit	VENT-EINH NO	10.02.02.08240
Piston (inst.)	KOLB 10.6x70.5	10.02.02.08009
Solenoid valve	EMV 0.7 24V-DC 3/2 NC FLAN	10.05.01.00382
Solenoid valve	EMV 0.7 24V-DC 3/2 NO FLAN	10.05.01.00394

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