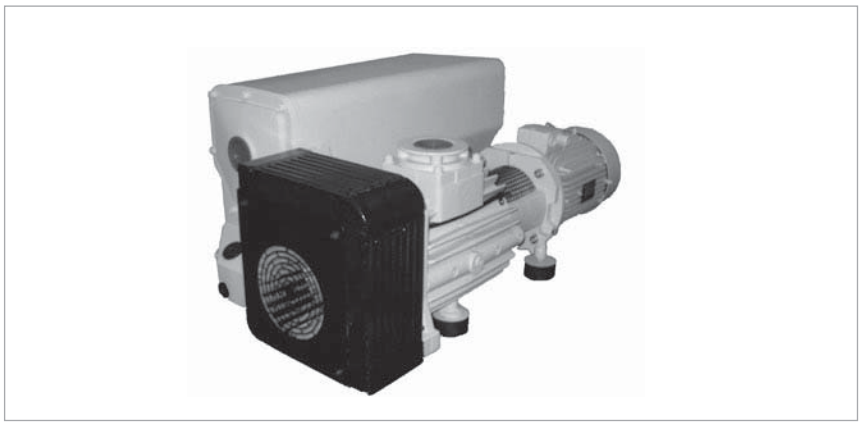
SOGEVAC SV 300 B



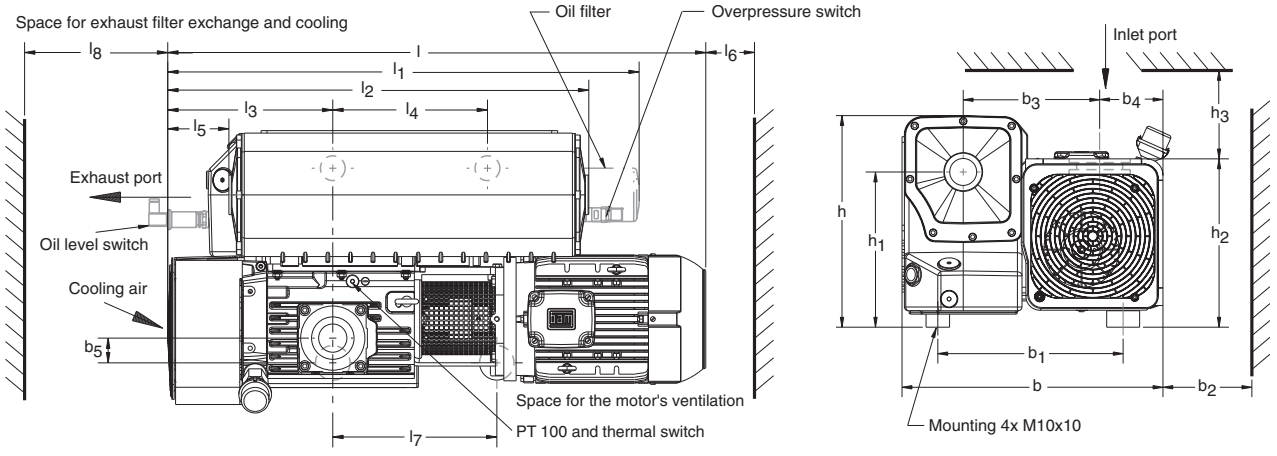
SOGEVAC SV 300 B

Advantages to the User

- Lowest pump temperature on the market: ideal for harsh applications. Optimal oil life time thus reached
- Integrated exhaust filters with low oil mist flow: long filter life time
- Optimized integrated lubrication without external pipes: yellow metal free as standard
- Integrated oil recovery system and anti-suckback valve
- Low noise level
- High reliability due to separate greased ball bearings (30.000 h life)
- Variant concept
- Best ultimate pressure
- Big oil volume for long oil life time

Typical Applications

- Coating systems and load locks
- Oil purification
- Plastic & rubber injection presses
- Heat treatment / Metallurgy
- Lamination
- ATEX and O_2 applications
- ... and more



Type		l	l_1	l_2	l_3	l_4	l_5	l_6	l_7	i_8	b	b_1	b_2	b_3	b_4	b_5
SV 300 B	mm	1)	954	852	334	313	124	150	332	350	555	394	250	290	135	50
	in.	1)	37.56	33.54	13.15	12.32	4.88	5.91	13.07	13.78	21.85	15.51	9.84	11.42	5.31	1.97

		h	h_1	h_2	h_2
	mm	450	330	2)	250
	in.	17.72	12.99	2)	9.84

SV 300 B		1)	2)
Europe	mm	1090	360
	in.	42.91	14.17
US	mm	1145	360
	in.	45.10	14.17
Japan	mm	1065	360
	in.	41.93	14.17
Wide Range	mm	1100	385
	in.	43.30	15.16

Dimensional drawing for the SOGEVAC SV 300 B, European version

Technical Data

SOGEVAC SV 300 B

	50 Hz	60 Hz
Nominal speed [1] $m^3 \times h^{-1}$ (cfm)	280 (165)	340 (200)
Pumping speed (according to PNEUROP) [1] $m^3 \times h^{-1}$ (cfm)	240 (141)	290 (171)
Ultimate total pressure without gas ballast [1] mbar (Torr)	≤ 0.08 (≤ 0.06)	≤ 0.08 (≤ 0.06)
Ultimate total pressure with small gas ballast 4 Nm^3/h [1] mbar (Torr)	≤ 0.5 (≤ 0.4)	≤ 0.5 (≤ 0.4)
Ultimate total pressure with standard gas ballast 7.5 Nm^3/h also for electromagnetic gas ballast 10 Nm^3/h [1] mbar (Torr)	≤ 0.7 (≤ 0.5)	≤ 0.7 (≤ 0.5)
Ultimate total pressure with big gas ballast 15 Nm^3/h [1] mbar (Torr)	≤ 2.0 (≤ 1.5)	≤ 2.0 (≤ 1.5)
Ultimate total pressure with 2 big gas ballasts 28 Nm^3/h [1] mbar (Torr)	≤ 3.0 (≤ 2.3)	≤ 3.0 (≤ 2.3)
Water vapor tolerance with small ballast 4 Nm^3/h mbar (Torr)	4 (3) with turbine 220 mm	5 (4) with turbine 220 mmm
Water vapor capacity with small ballast 4 Nm^3/h kg x h^{-1} (qt/hr)	0.4 (0.4) with turbine 220 mm	0.6 (0.6) with turbine 220 mmm
Water vapor tolerance with standard gas ballast 7.5 Nm^3/h also for electromagnetic gas ballast 10 Nm^3/h [2] mbar (Torr)	10.0 (7.5) with turbine 220 mm 40.0 (30.0) with turbine 150 mm [6]	12.0 (9.0) with turbine 220 mm 50.0 (37.5) with turbine 150 mm [6]
Water vapor capacity with standard gas ballast 7.5 Nm^3/h also for electromagnetic gas ballast 10 Nm^3/h kg x h^{-1} (qt/hr)	1.3 (1.4) with turbine 220 mm 6.0 (6.4) with turbine 150 mm [6]	1.8 (1.9) with turbine 220 mm 8.0 (8.5) with turbine 150 mm [6]
Water vapor tolerance with big gas ballast 15 Nm^3/h [2] mbar (Torr)	70.0 (52.5) with turbine 150 mm [6]	70.0 (52.5) with turbine 150 mm [6]
Water vapor capacity with big gas ballast 15 Nm^3/h [2] kg x h^{-1} (qt/hr)	11 (12) with turbine 150 mm [6]	14 (15) with turbine 150 mm [6]
Water vapor tolerance with 2 big gas ballasts 28 Nm^3/h [2] mbar (Torr)	95 (72) with turbine 150 mm [6]	95 (72) with turbine 150 mm [6]
Water vapor capacity with 2 big gas ballasts 28 Nm^3/h [2] kg x h^{-1} (qt/hr)	15 (16) with turbine 150 mm [6]	17 (18) with turbine 150 mm [6]
Noise level (according to DIN 466535) [3] dB(A)	72	76
Admissible ambient temperature °C (°F)	12 to 40 (54 to 104)	12 to 40 (54 to 104)
Motor power 3 ~ (with IEC Euro motor) [4] kW (hp)	5.5 (7.5)	6.3 (8.6)
Mains voltage and frequency 3 ~ motor V	see Ordering Information	see Ordering Information
Nominal speed min^{-1} (rpm)	1500 (1500)	1800 (1800)
Type of protection IP	55	55
Isolation class 3 ~ motor	F	F
Leak rate mbar x l x s^{-1}	≤ 1 x 10^{-3}	≤ 1 x 10^{-3}
Oil capacity, min. / max. l (qt)	8.5 (9.0) / 11.5 (12.2)	8.5 (9.0) / 11.5 (12.2)
Net weight (with oil filling) dependant on the motor kg (lbs)	200 (430)	225 (497)
Connections [5]		
Intake, Thread G or NPT	2"	2"
Exhaust, Thread G or NPT	2"	2"

[1] To DIN 28 400 and following numbers

[2] Ordering Information see Chapter “Accessories”

[3] Operated at the ultimate pressure without gas ballast, free-field measurement at a distance of 1 m (3.5 ft)

[4] Versions with NEMA motor have 10 hp motors

[5] Pumps with European and Japanese motors have G, pumps with US (NEMA) motors have NPT

[6] Standard turbine 220 mm. Special turbine 150 mm can be retrofitted