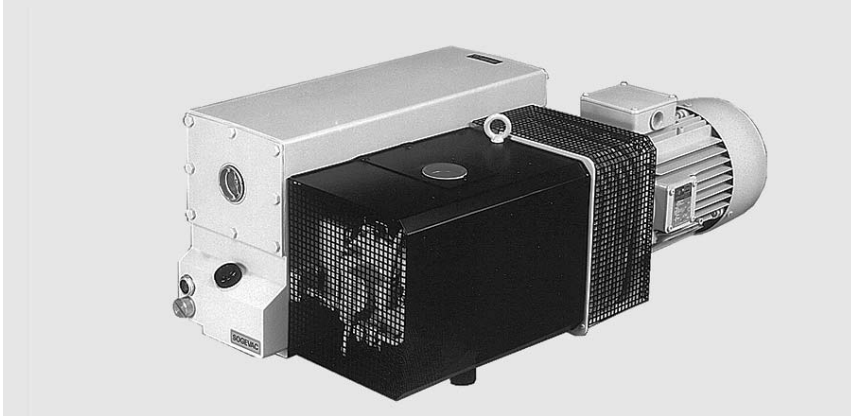
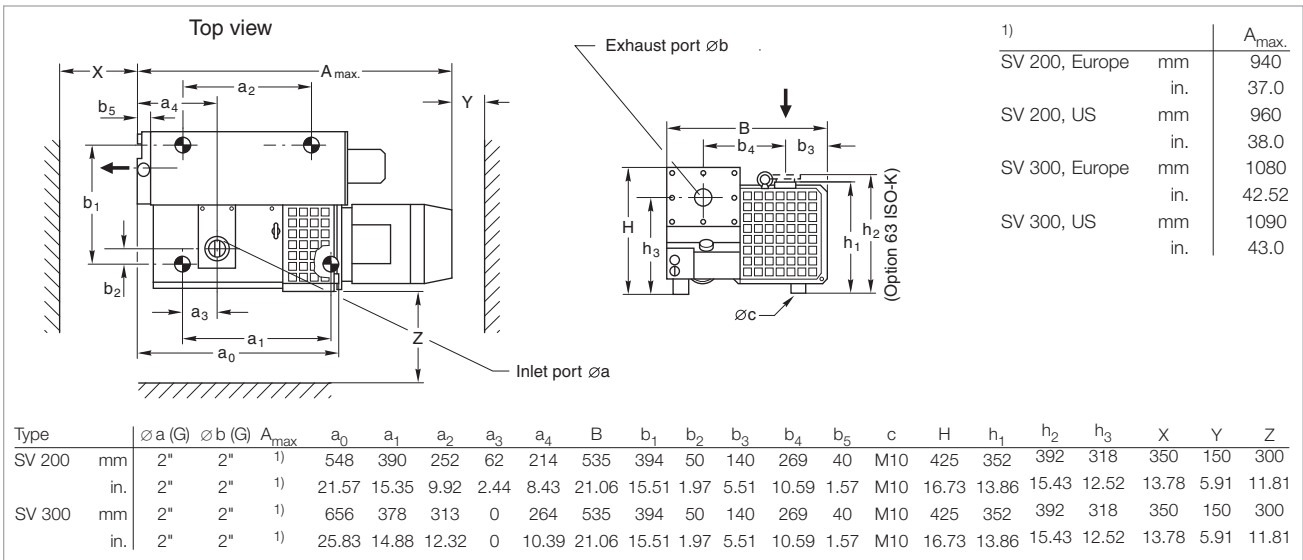


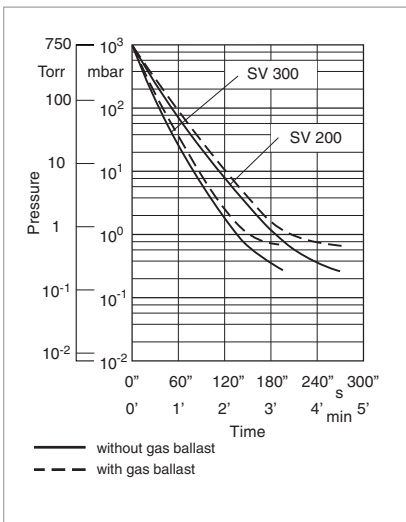
SOGEVAC SV 200 and SV 300



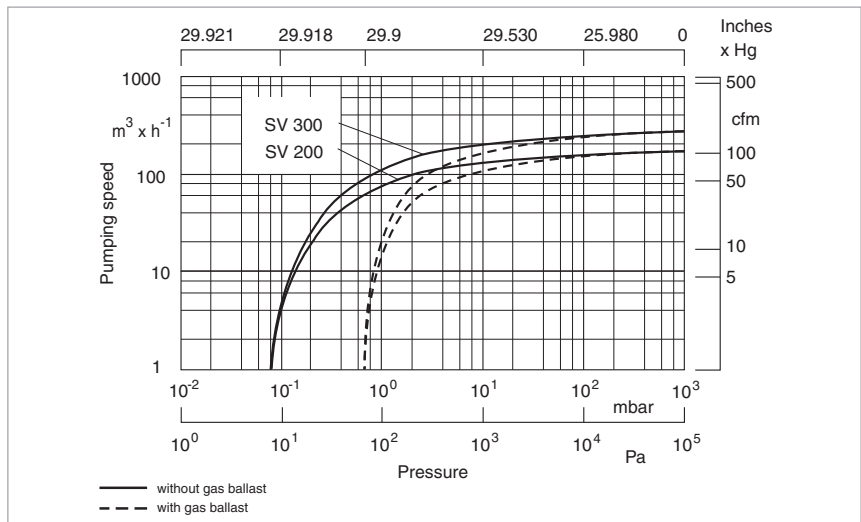
SOGEVAC SV 300



Dimensional drawing for the SOGEVAC SV 200 and SV 300, European version



Pump-down characteristics of a 1000 l vessel at 50 Hz



Pumping speed characteristics of the SOGEVAC SV 200 and SV 300 at 50 Hz (60 Hz curves at the end of the section)

Technical Data

		SOGEVAC SV 200		SOGEVAC SV 300	
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal speed ¹⁾	m ³ x h ⁻¹ (cfm)	180 (106.0)	220 (129.5)	280 (164.9)	340 (200.3)
Pumping speed ¹⁾	m ³ x h ⁻¹ (cfm)	170 (100.1)	200 (117.8)	240 (141.4)	290 (170.0)
Ultimate partial pressure without gas ballast ¹⁾	mbar (Torr)	≤ 8 x 10 ⁻² (≤ 6 x 10 ⁻²)	≤ 8 x 10 ⁻² (≤ 6 x 10 ⁻²)	≤ 8 x 10 ⁻² (≤ 6 x 10 ⁻²)	≤ 8 x 10 ⁻² (≤ 6 x 10 ⁻²)
Ultimate total pressure with gas ballast ¹⁾	mbar (Torr)	≤ 0.7 (≤ 0.5)	≤ 0.7 (≤ 0.5)	≤ 0.7 (≤ 0.5)	≤ 0.7 (≤ 0.5)
Water vapor tolerance with standard gas ballast ¹⁾	mbar (Torr)	30.0 (22.5)	40.0 (30.0)	30.0 (22.5)	40.0 (30.0)
	with big gas ballast ²⁾	mbar (Torr)	50.0 (37.5)	50.0 (37.5)	50.0 (37.5)
Water vapor capacity with standard gas ballast	kg x h ⁻¹ (qt/hr)	3.4 (3.6)	5.4 (5.7)	5.4 (5.7)	7.4 (7.8)
Oil capacity, min. / max.	l (qt)	5.0 (5.3) / 9.0 (9.5)	5.0 (5.3) / 9.0 (9.5)	8.5 (8.9) / 11.5 (12.1)	8.5 (8.9) / 11.5 (12.1)
Noise level ³⁾	dB(A)	69	73	70	74
Admissible ambient temperature	°C (°F)	12 to 40 (54 to 104)	12 to 40 (54 to 104)	12 to 40 (54 to 104)	12 to 40 (54 to 104)
Motor power	kW (hp)	4.0 (7.5)	4.6 (7.5)	5.5 (10.0)	6.3 (10.0)
Nominal speed	min ⁻¹ (rpm)	1450 (1450)	1750 (1750)	1450 (1450)	1750 (1750)
Type of protection	IP	55	TEFC/55 ⁴⁾	55	TEFC/55 ⁴⁾
Materials (materials in contact with the gas)		Steel, cast iron, Aluminum, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminum, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminum, Bronze, FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre	Steel, cast iron, Aluminum, Bronze FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin & Glass fibre
Weight (with oil filling)	kg (lbs)	140 (308.7)	155 (341.8)	180 (396.9)	195 (430.0)
Connections ⁵⁾					
Intake, Thread	G or NPT	2"	2"	2"	2"
Exhaust, Thread	G or NPT	2"	2"	2"	2"

¹⁾ To DIN 28 400 and following numbers

²⁾ Ordering Information see Section "Accessories"

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

⁴⁾ CEI motor (Europe) 50/60 Hz has IP 55, NEMA motor (North and South America) has TEFC

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

Ordering Information

SOGEVAC SV 200 50/60 Hz

SOGEVAC SV 300 50/60 Hz

SOGEVAC SV 200/SV 300 ¹⁾ with three-phase motor, without gas ballast 230/400 V, 50 Hz and 460 V, 60 Hz (CEI) ²⁾ 200 V, 50/60 Hz (JIS)	Part No. 109 26 Part No. 955 26	Part No. 109 30 Part No. 955 36
with three-phase motor and integrated gas ballast valve 230/400 V, 50 Hz and 460 V, 60 Hz (CEI) ²⁾ 208 - 230/460 V, 60 Hz (NEMA) and 400 V, 50 Hz ²⁾ 200 V, 50/60 Hz (JIS)	Part No. 109 27 Part No. 950 27 Part No. 955 27	Part No. 109 31 Part No. 950 31 Part No. 955 37
Other voltages/frequencies ³⁾ Filling with special oil ³⁾	upon request upon request	upon request upon request
Accessories		
Adaptor for Roots pump ^{3), 4)} RUVAC 501 (BR 2) RUVAC 1001 (BR 2)	Part No. 953 90 Part No. 953 91	Part No. 953 90 Part No. 953 91
Mounting pedestal for fitting to a Roots pump	Part No. 711 19 209	Part No. 711 19 209
Oil level monitor ^{3), 4)}	Part No. 953 96	Part No. 953 96
Thermal switch ^{3), 4)}	Part No. 951 36	Part No. 951 36
Exhaust filter gauge, mechanical ^{3), 4)}	Part No. 951 94	Part No. 951 94
Exhaust filter monitoring switch, electric ³⁾	upon request	upon request
Manual gas ballast ^{3), 4)}	Part No. 951 30	Part No. 951 30
Gas ballast valve, electromagnetic 24 V DC ^{3), 4)}	Part No. 951 31	Part No. 951 31
Two gas ballast valves ³⁾	upon request	upon request
Water cooling with thermostatic valve ³⁾	upon request	upon request
Spare Parts		
Oil filter	Part No. 710 18 858	Part No. 710 18 858
Oil filter bypass	Part No. 712 30 570	Part No. 712 30 570
Exhaust filter cartridge (4x required) AFE SV40-SV100 / SV 180/200 AFE SV280/SV 300-SV1200	Part No. 710 64 763 -	- Part No. 710 64 773
Vanes (set of 3 pieces)	Part No. 714 12 000	Part No. 714 12 010
Set of gaskets NBR (standard)	Part No. 971 97 552	Part No. 971 97 652
Set of gaskets FPM (FKM)	Part No. 714 36 730	Part No. 714 36 740
Repair kit complete	Part No. 714 36 190	Part No. 714 36 200
Pump module complete	Part No. 714 36 770	Part No. 714 36 780

¹⁾ Pumps with European and Japanese motors have G,
pumps with US (NEMA) have NPT

²⁾ IEC motor (Europe) 50/60 Hz have IP 55, NEMA motor have TEFC

³⁾ Please indicate when ordering a pump

⁴⁾ Can be retrofitted

Note: Further pump options upon request (for example, water cooled pumps)