



Leybold SV-10B, 16B, 25B, 40B, 65B, 100B, 120B

Technical Specifications

SOGEVAC rotary vane vacuum pumps at 50 Hz		SV10 B	SV16 B	SV25 B	SV40 B	SV65 B	SV100 B	SV120 B
Nominal pumping speed	m ³ · h ⁻¹	11	16	26	44	59	97,5	130
Pumping speed (according to PNEUROP)	m ³ · h ⁻¹	9.5	15	22.5	38.5	54	87,5	110
Ultimate partial pressure without gas ballast	mbar	≤ 1.5	≤ 1	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Ultimate total pressure with small gas ballast	mbar	-	-	-	≤ 0.8	≤ 0.8	≤ 0.8	-
Ultimate total pressure with standard gas ballast	mbar	≤ 2.5	≤ 2	≤ 0.8	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
Water vapor tolerance								
with small gas ballast	mbar	-	-	-	10	10	10	-
with standard gas ballast		10	10	10	30	30	30	30
Permissible water vapor load								
with small gas ballast	kg · h ⁻¹	-	-	-	0.28	0.36	0.45	-
with standard gas ballast		0.02	0.03	0.085	0.76	1.0	1.6	1.6
Motor power	kW	0.55	0.55	0.9	1.1	1.5	2.2	2.4
Rated rotational speed	min ⁻¹	3000	3000	3000	1500	1500	1500	1500
Noise level	dB(A)	60	60	64	58	60	61	61
Oil capacity	l	0.5	0.5	0.5	1	2	2	2
Weight (with oil filling)	kg	20	20	27	43	49	81	84
Intake connection		G 3/4 + G 1/2				G 1 1/4		
Exhaust connection		-	-	G 3/4	G 1 1/4			

SOGEVAC rotary vane vacuum pumps at 60 Hz		SV10 B	SV16 B	SV25 B	SV40 B	SV65 B	SV100 B	SV120 B
Nominal pumping speed	m ³ · h ⁻¹	13	19	31	53	71	117	147
Pumping speed (according to PNEUROP)	m ³ · h ⁻¹	11.5	17	25	47	64	105	122
Ultimate partial pressure without gas ballast	mbar	≤ 1.5	≤ 1	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Ultimate total pressure with small gas ballast	mbar	-	-	-	≤ 0.8	≤ 0.8	≤ 0.8	-
Ultimate total pressure with standard gas ballast	mbar	≤ 2.5	≤ 2	≤ 0.8	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
Water vapor tolerance								
with small gas ballast	mbar	-	-	-	10	10	10	-
with standard gas ballast		15	15	10	30	30	30	30
Permissible water vapor load								
with small gas ballast	kg · h ⁻¹	-	-	-	0.34	0.42	0.6	-
with standard gas ballast		0.03	0.05	0.1	0.90	1.25	1.7	1.7
Motor power	kW	0.65	0.65	1.1	1.5	1.8	3.5	3.2
Rated rotational speed	min ⁻¹	3600	3600	3600	1800	1800	1800	1800
Noise level	dB(A)	66	66	67	60	64	64	64
Oil capacity	l	0.5	0.5	0.5	1	2	2	2
Weight (with oil filling)	kg	20	20	27	45	52	93	84
Intake connection		G 3/4 + G 1/2				G 1 1/4		
Exhaust connection		-	-	G 3/4	G 1 1/4			



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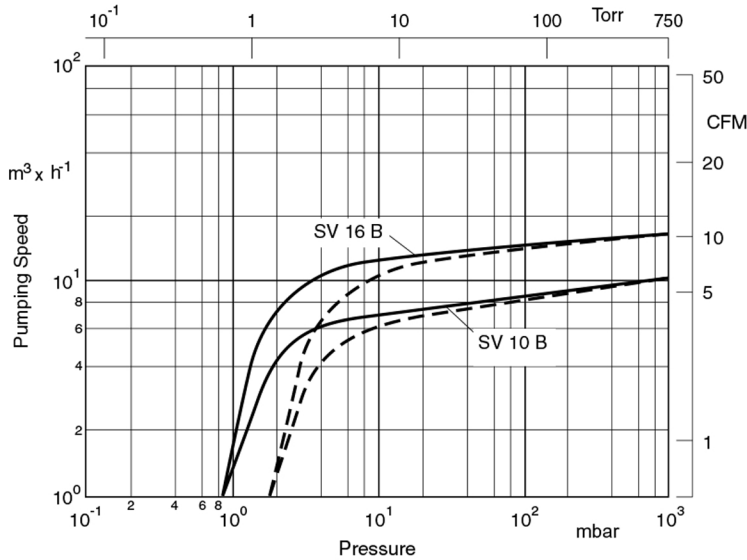
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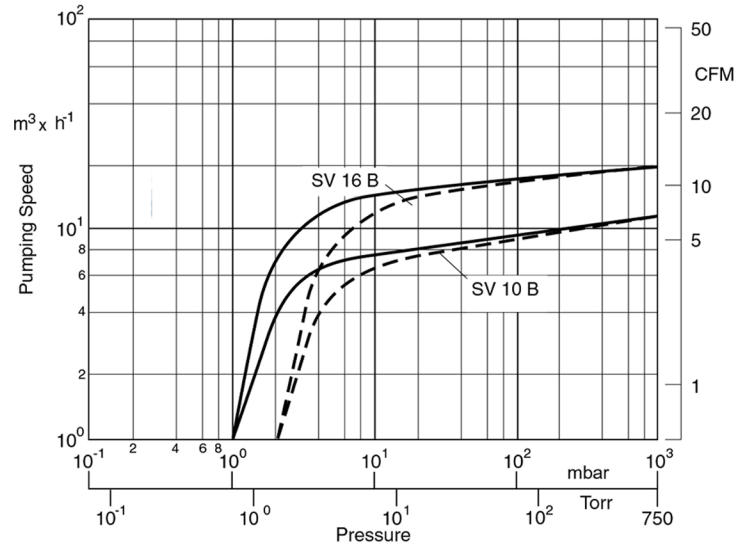
Pumping Curves

————— without gas ballast
 - - - - - with gas ballast

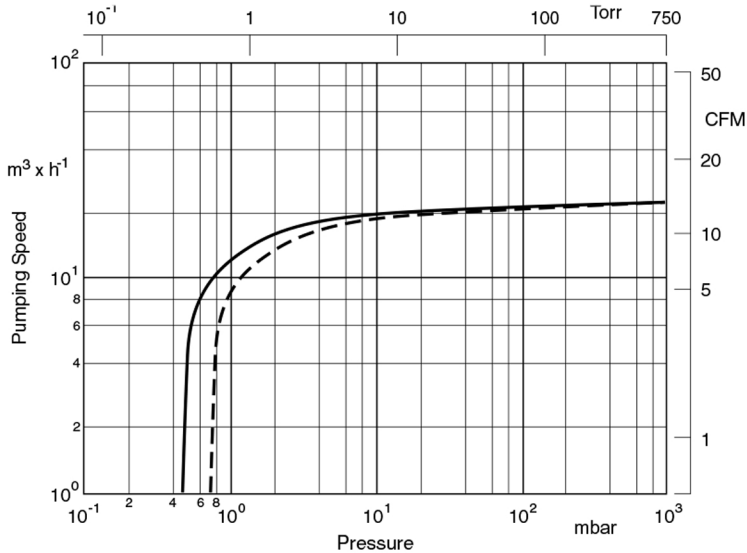
SV-10B, SV-16B (50Hz)



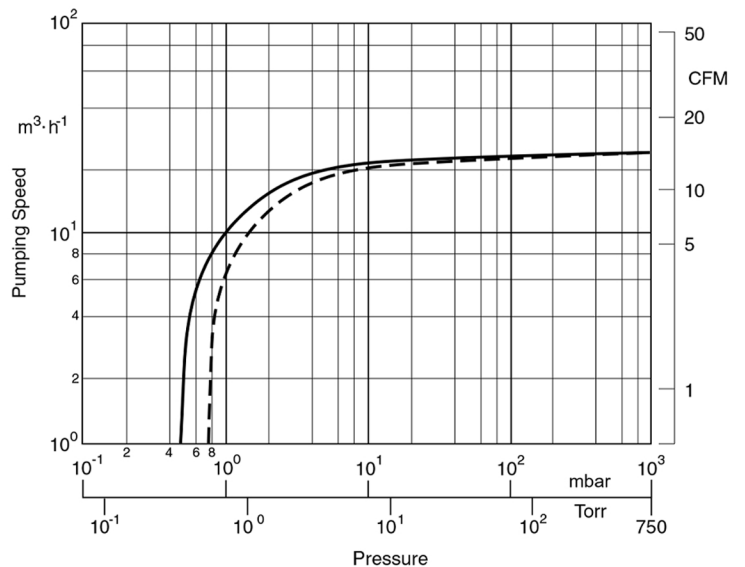
SV-10B, SV-16B (60Hz)



SV-25B (50Hz)



SV-25B (60Hz)





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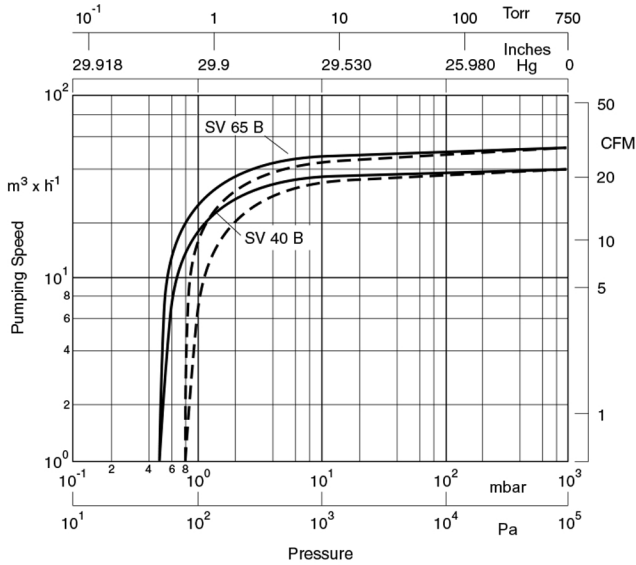
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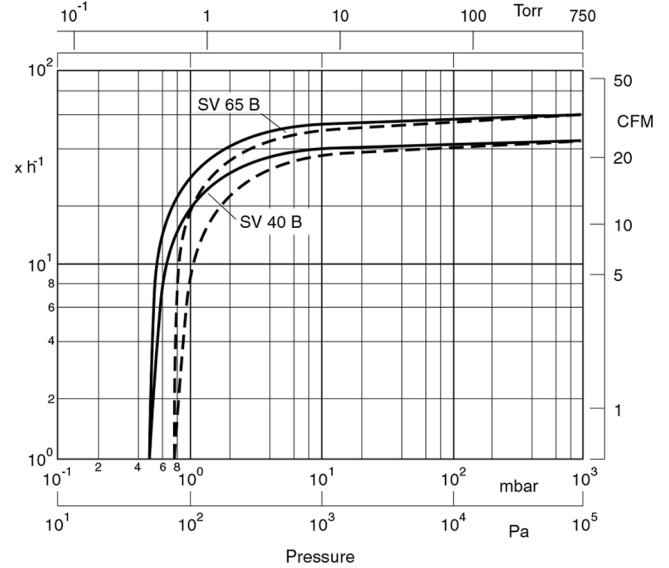
Pumping Curves cont.

———— without gas ballast
 - - - - with gas ballast

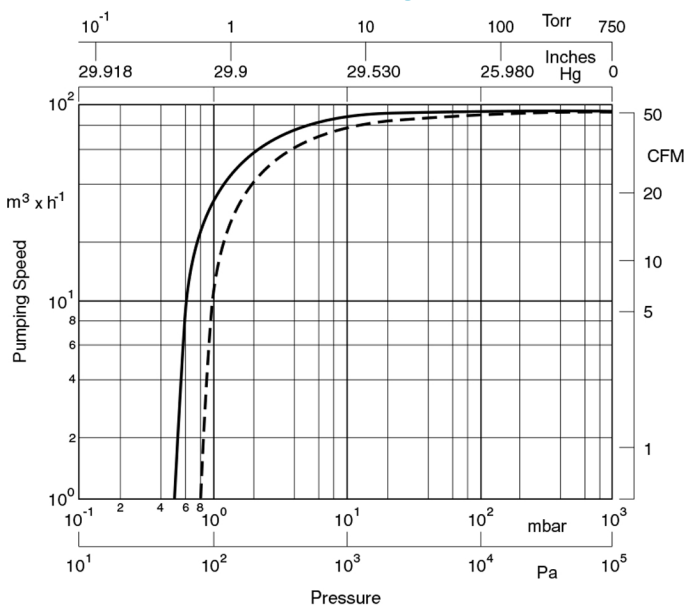
SV-40B, SV-65B (50Hz)



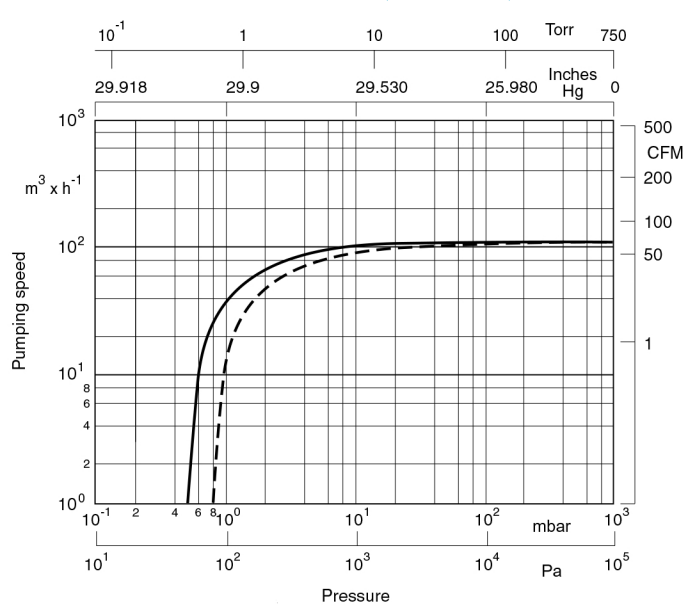
SV-40B, SV-65B (60Hz)



SV-100B (50Hz)



SV-100B (60Hz)





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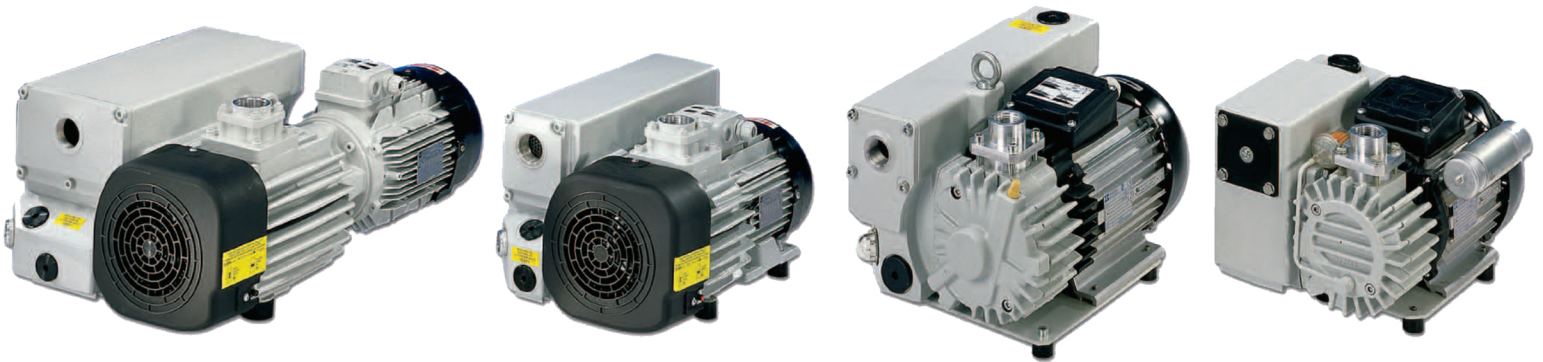
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Features & Benefits

- user-friendly maintenance
- anti-suckback valve
- angle mounted oil-sight glass offering visibility from two sides
- compact design and small footprint
- very low and constant noise level in any working condition
- integrated functions, no external pipe
- no motor coupling up to SV-65B
- variant concept / specific customer configurations



Applications

- vacuum packaging (chamber machines, table top machines, modified atmosphere, rollstock)
- central vacuum systems
- degassing
- drying / filling
- impregnation
- leak testing
- CO2 laser
- handling / lifting
- lamination