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oerlikon
leybold vacuum

SOGEVAC
SV40 BI
Single-stage, oil-sealed Rotary Vane Vacuum Pumps



172.21.02

SOGEVAC BI Rotary Vane Pumps
SV40 BI



SOGEVAC SV40 BI



Advantages of SOGEVAC BI single-stage rotary vane vacuum pumps:

- integrated exhaust filter
- integrated oil recovery system and anti suckback valve
- extremely low noise level
- high reliability
- different gas ballast versions available

The new SOGEVAC SV40 BI offer:

- improved ultimate pressure stability
- high pumping speed stability even at low pressures
- low maintenance intervals

Applications

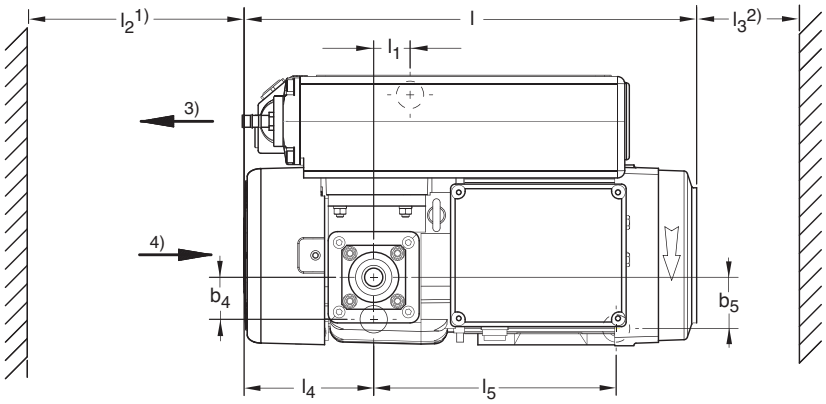
- mass spectrometry
- freeze drying
- laboratory
- car industry
- lamps and bulbs...

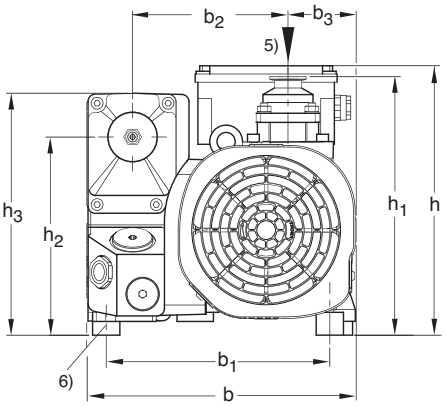
Ordering Information

Cat. No.	Type	Power Supply
960 330	SV40 BI	with 3-phase motor without gas ballast 230/400 V, 50 Hz 460 V, 60 Hz
960 331	SV40 BI	with 3-phase motor with small gas ballast 230/400 V, 50 Hz 460 V, 60 Hz
960 341	SV40 BI	with 3-phase motor with small gas ballast 400V, 50 Hz 230/460 V, 60 Hz

Other voltages / frequencies upon request

SOGEVAC BI Rotary Vane Pumps
SV40 BI

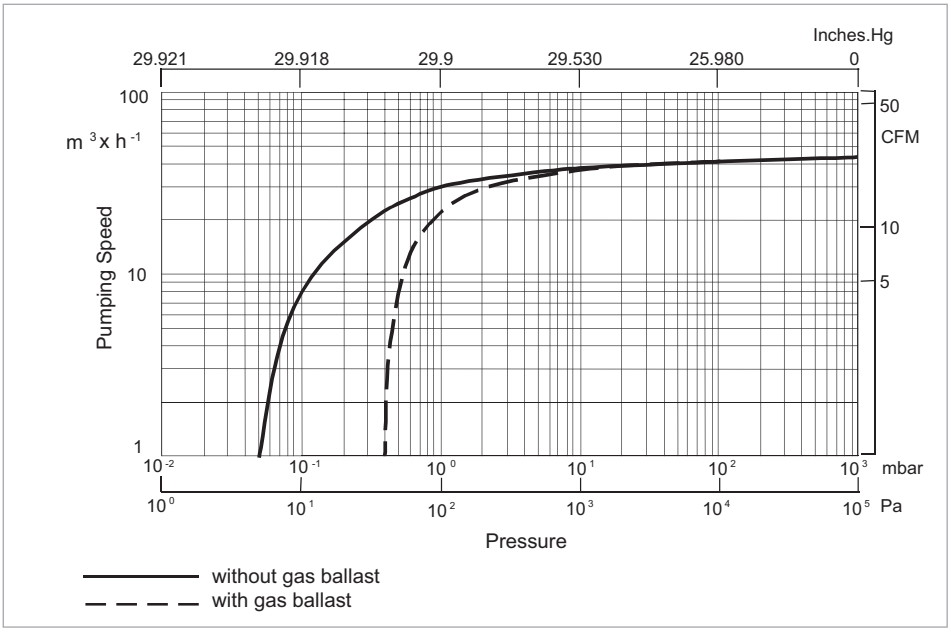




1) Space for exhaust filter exchange and cooling
2) Space for the motor's ventilation
3) Exhaust port
4) Inlet port
5) Cooling air
6) Mounting 3x M 8 x 7

Type	b	b_1	b_2	b_3	b_4	b_5	h	h_1	h_2	h_3	l	l_1	l_2	l_3	l_4	l_5
SV 40 BI	296	246	171	75	46	56	295	283	217	265	497	40	350	150	142	266,5

Dimensional drawing for the SOGEVAC SV 40 BI with standard single-phase motor, European version (dimensions for three-phase motor smaller)



Pumping speed characteristics of the SOGEVAC SV 40 BI at 50 Hz

Technical Data

SOGEVAC SV40 BI rotary vane vacuum pumps		50 Hz	60 Hz
Nominal pumping speed	$m^3 \cdot h^{-1}$	42	50
Pumping speed (according to PNEUROP)	$m^3 \cdot h^{-1}$	40	48
Ultimate partial pressure without gas ballast	mbar	$\leq 5 \cdot 10^{-2}$	
Ultimate total pressure with gas ballast	mbar	≤ 0.5	
Water vapor tolerable load with gas ballast	$kg \cdot h^{-1}$	0.28	0.34
Motor power	kW	1.1	1.3
Mains voltage and frequency	V	«see Ordering Information»	
Rated rotational speed	min^{-1}	1500	1800
Noise level	dB(A)	59	62
Protection - Insulation		IP-55 F	
Leak rate	$mbar \cdot l \cdot s^{-1}$	$\leq 1 \cdot 10^{-3}$	
Oil capacity	l	1	
Net weight (with oil filling)	kg	43	45
Intake connection Exhaust connection		40KF	

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