

SOGEVAC

SV 16 D / SV 25 D

Single-stage
Rotary Vane Pumps
The compact line



SOGEVAC SV 16 D and SV 25 D

Oil-sealed rotary vane pumps

Rugged, low-maintenance vacuum generators

With the SOGEVAC D line, Oerlikon Leybold Vacuum is setting new standards for single-stage, oil-sealed rotary vane vacuum pumps.

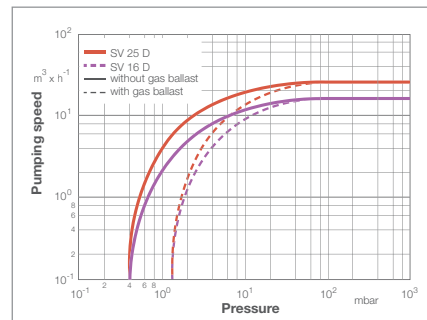
Typical Applications

- Oil processing, drying, degassing
- Rubber and plastic injection machines
- CO₂ Lasers
- O₂ applications
- Analytical instrumentation

Advantages

Besides the product features of the well proven models from the SOGEVAC A and B lines, like a low ultimate pressure, a high pumping speed and a high water vapour tolerance, for example, this new line excels through further advantages:

- Compact and rugged design
- Optimized pump temperature owing to a new air cooling concept
- Additional water cooling (optional) allowing deployment in rough applications thereby extending oil lifetime
- Longer oil service life due to an increased oil volume within the pump (up to 4 times the oil capacity compared to other comparable pumps)
- Integrated lubrication with oil recovery system without any external oil lines
- Low noise level across the entire operating pressure range due to low generator speeds
- Integrated anti-suckback valve
- Customer-oriented variants concept
- World motors as standard equipment



SOGEVAC Rotary vane pump		SV 16 D		SV 25 D	
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ · h ⁻¹ (cfm)	16.0 (9.4)	18.7 (11)	25.0 (14.7)	29.0 (17)
Pumping speed ¹⁾	m ³ · h ⁻¹ (cfm)	14.5 (8.5)	17.0 (10)	22.5 (13.3)	25.5 (15)
Ultimate partial pressure					
without gas ballast ¹⁾	mbar	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
	Torr	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.4
with gas ballast ¹⁾	mbar	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
	Torr	≤ 1.1	≤ 1.1	≤ 1.1	≤ 1.1
Water vapour tolerance ¹⁾	mbar	15		15	
	Torr	11.3		11.3	
Oil filling	l	2		2	
	qt	2.1		2.1	
Noise level	dB (A)	59		59	
Motor power (1~ + 3~), max.	kW	0.75	0.90	0.75	0.90
	hp	1.01	1.21	1.01	1.21
Nominal speed	rpm	1440	1750	1440	1750
Weight (with oil filling)	kg	25		25	
	lb	55.1		55.1	
Connections, intake and exhaust side		G 1/2"		G 1/2"	
Dimensions (W x H x D)	mm	268 x 247 x 440		268 x 247 x 440	
	in	10.5 x 9.72 x 17.3		10.5 x 9.72 x 17.3	
Ordering Information *		SV 16 D		SV 25 D	
SOGEVAC rotary vane pump with UL/CSA three-phase world motor and integrated gas ballast valve					
200 - 240 V ±10% and 380 - 415 V ±10%, 50 Hz/ 200 - 240 V ±10% and 380 - 460 V ±10%, 60 Hz		960 181V		960 211V	
200 V +10-15%, 50/60 Hz		960 180V		960 210V	
SOGEVAC rotary vane pump with single phase AC motor and integrated gas ballast valve					
200 - 240 V / ±10%, 50/60 Hz		960 185V		960 215V ²⁾	
110 - 115 V ±10% and 220 - 230 V ±10%, 50/60 Hz		960 186V		on request	

¹⁾ in acc. with DIN 28 400 et. seq.

²⁾ 230 V ±10% only

* Excerpt from our line of products. Details on other motor voltages/frequencies as well as accessories and maintenance materials are available upon request.

