

SOGEVAC SV 16 D / SV 25 D

Single-stage
Rotary Vane Pumps
The compact line



SOGEVAC SV 16 D and SV 25 D

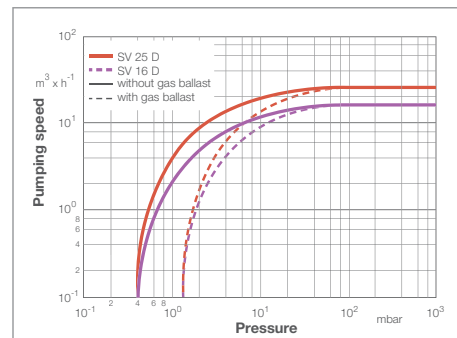
Oil-sealed rotary vane pumps

Rugged, low-maintenance vacuum generators

With the SOGEVAC D line, Leybold sets 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 increased oil capacity compared to equivalent 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

| Technical Data | | SV 16 D | | SV 25 D | |
|---|--|--------------------|-----------|------------------------|-----------|
| SOGEVAC Rotary vane pump | | 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.



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