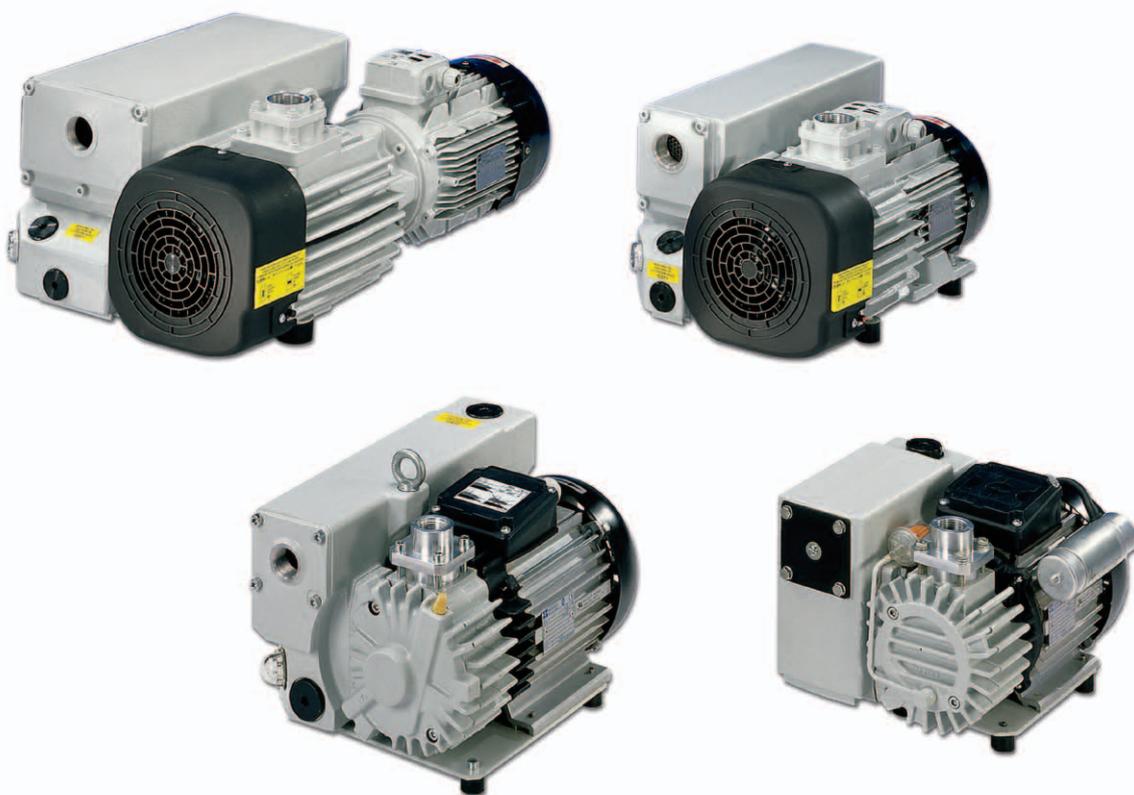


# **SOGEVAC Rotary Vane Vacuum Pumps**

Single-stage, oil-sealed  
SV10 B, SV16 B, SV25 B  
SV40 B, SV65 B, SV100 B,  
SV120 B



# SOGEVAC SV10 B - SV120 B

## Single-stage, oil-sealed Rotary Vane Vacuum Pumps

The SOGEVAC range of rotary vane vacuum pumps is setting new standards and offers following major characteristics:

- 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 SV65 B
- Variant concept / specific customer configurations
- ATEX versions for categories 2 and 3, from SV40 B to SV120 B
- PFPE versions (SV65 B and SV100 B) for O<sub>2</sub> applications
- Simplified maintenance



SOGEVAC SV100 B



SOGEVAC SV40 B

All this without any concession to the high technical performance of the SOGEVAC pumps such as ultimate pressure, pump-down time, water vapor tolerance, etc.

### Compact design and small footprint

The SOGEVAC B pumps allow space saving in your developments with minimum customer design constraints. These pumps can also replace almost any pump in the field without requiring special adaptations.

### Very low and constant noise level in any working conditions

Improved lubrication circuits and mechanical tolerances provide a constant low noise level at all working pressures. This provides a new standard in work-area comfort to those operating your system.

### Integrated functions

All lubrication circuits as well as the gas ballast system have been integrated into the pumps' major components allowing limited sealings and a reduced number of parts. As a result, improved product reliability and durability is gained with prolonged maintenance intervals.

# Single-stage, oil-sealed Rotary Vane Vacuum Pumps

## No motor coupling up to SV65 B

The rugged concept of the cantilever motor shaft design allows to avoid a coupling element, which increases the capacity for frequent start/stop or short-cycle operations.

## Variant concept / Specific customer configurations

The range of SOGEVAC B pumps can of course be customized to fit individual customer needs. Different motor versions, inlet or exhaust ports, food-grade oil, food-grade paint, larger gas ballast are some examples of possible customizing.

## Simplified maintenance

The SOGEVAC B pumps carry on with the proven and user-friendly maintenance concept of the former generation. All maintenance points are located on the front of the pump.

Enhancements include an unambiguous angle mounted oil-sight glass offering visibility from two sides and a unique system that allows an easier exhaust demister replacement.

All these features make the SOGEVAC B pumps more than ever suitable for almost all rough vacuum applications, such as:

- Vacuum packaging (chamber machines, table top machines, modified atmosphere, rollstock...)
- Central vacuum systems
- Degassing
- Drying / Filling
- Impregnation
- Leak testing
- CO<sub>2</sub> Laser
- Handling / Lifting
- Lamination



SOGEVAC SV25 B



SOGEVAC SV10 B - SV16 B

# Technical Data

<b>SOGEVAC rotary vane vacuum pumps at 50 Hz</b>		<b>SV10 B</b>	<b>SV16 B</b>	<b>SV25 B</b>	<b>SV40 B</b>	<b>SV65 B</b>	<b>SV100 B</b>	<b>SV120 B</b>
Nominal pumping speed	m <sup>3</sup> · h <sup>-1</sup>	11	16	26	44	59	97,5	130
Pumping speed (according to PNEUROP)	m <sup>3</sup> · h <sup>-1</sup>	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 <sup>-1</sup>	-	-	-	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 <sup>-1</sup>	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		

<b>SOGEVAC rotary vane vacuum pumps at 60 Hz</b>		<b>SV10 B</b>	<b>SV16 B</b>	<b>SV25 B</b>	<b>SV40 B</b>	<b>SV65 B</b>	<b>SV100 B</b>	<b>SV120 B</b>
Nominal pumping speed	m <sup>3</sup> · h <sup>-1</sup>	13	19	31	53	71	117	147
Pumping speed (according to PNEUROP)	m <sup>3</sup> · h <sup>-1</sup>	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 <sup>-1</sup>	-	-	-	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 <sup>-1</sup>	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		

For detailed information on our full scope of SOGEVAC pumps, please refer to our general catalog. Visit our webshop [www.leyboldproducts.com](http://www.leyboldproducts.com).

**Please contact us for more technical details on the entire SOGEVAC series.**

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