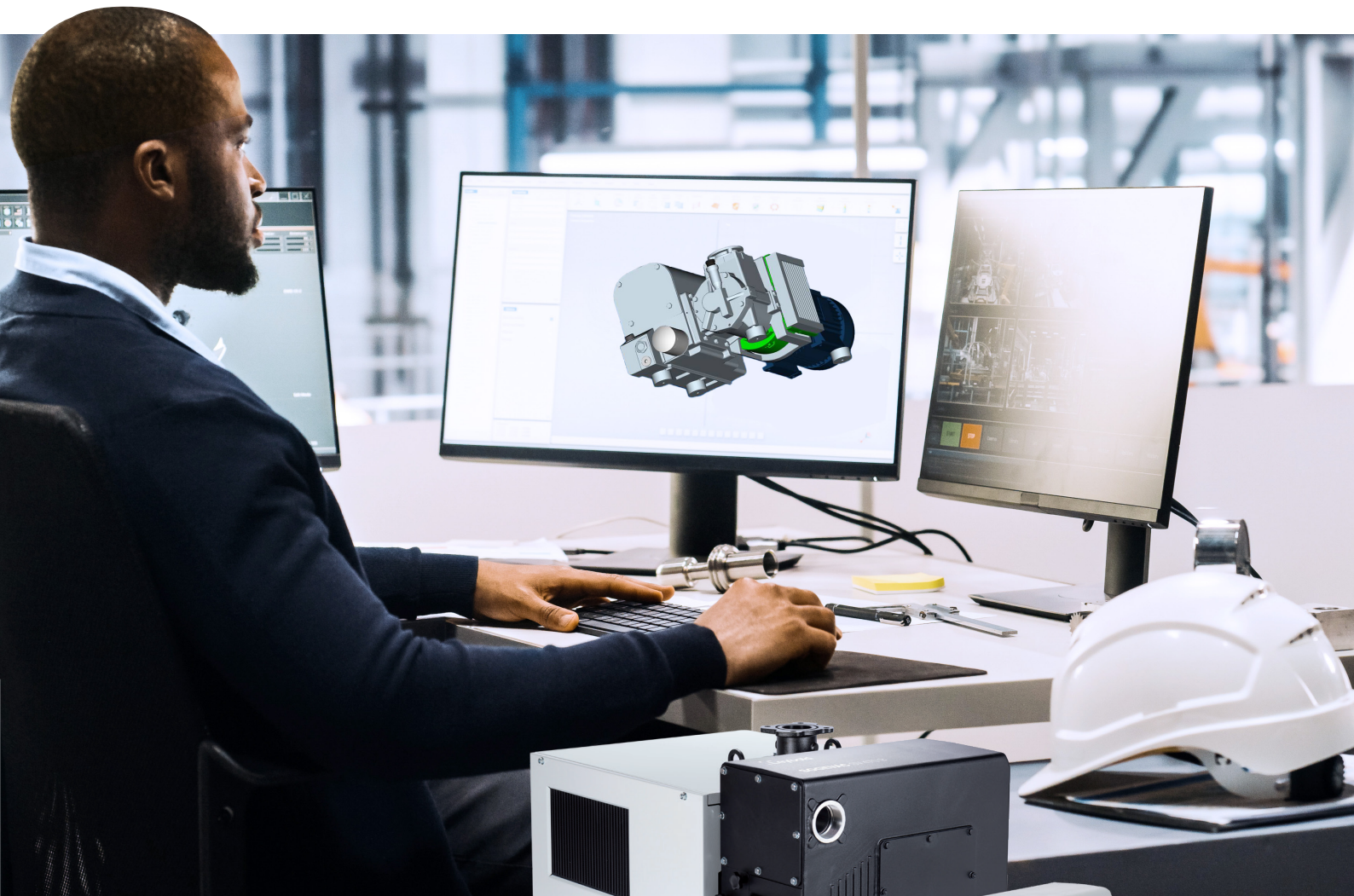




SOGEVAC B/D

Industrial range of single stage
oil sealed pumps



Innovative features for enhanced productivity

The **SOGEVAC** pumps excel with low noise levels and deliver smooth and clean operation in various industrial and research applications.

Many years of experience in vacuum engineering and the latest developments in pump technology has resulted in the development of the **SOGEVAC** range, tuned to the requirements of our customers as well as the environment.

The comprehensive range (pumping speeds ranging from 10 to 750 m³/h (5.9 to 707 cfm)) of **SOGEVAC** pumps allows every customer to select the right rough and medium pump for their application.



Typical **SOGEVAC B** models

Design principle

SOGEVAC vacuum oil sealed rotary vane pumps use oil which is injected into the pump chamber for sealing, lubrication and cooling of the pump. Oil is recycled from the pump's oil reservoir and filtered. The lubricant system operates continuously even at high intake pressures (max. 1000 mbar abs.) making the **SOGEVAC** pumps versatile in most rough vacuum applications. The oil carried with the process gas is first roughly separated in the oil box and then in the integrated exhaust filters where the fine oil mist is trapped. The separating system lowers the exhaust emission and is free of oil mist (≤ 1 ppm) delivering a typically 10 times cleaner working environment as compared to competitive pumps without this technology.

The **SOGEVAC** vacuum pumps distinguish themselves by their very low power consumption, typically 15% lower compared to competitive pumps. Appropriate accessories are available for your application.

Materials used:

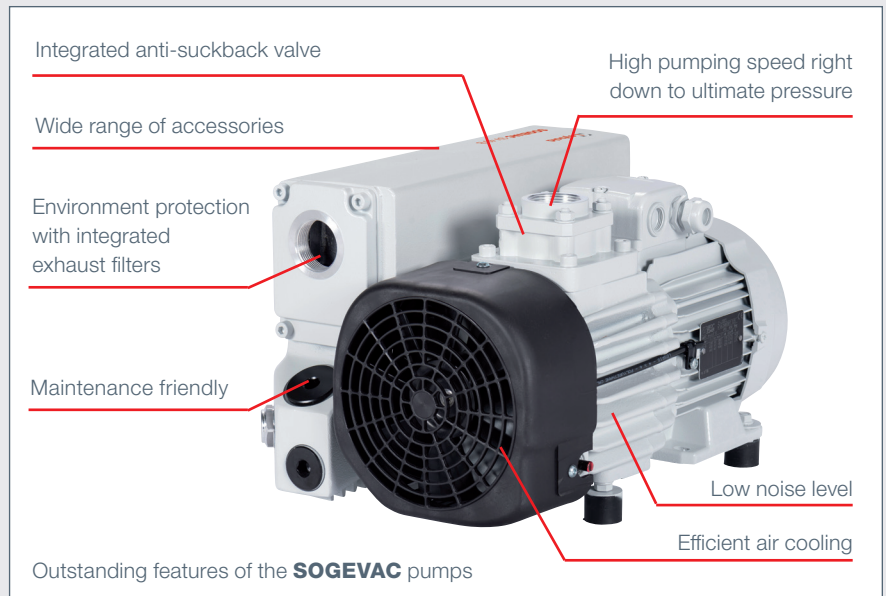
Steel, Cast iron, Aluminium, Bronze (up to 120 size), FPM (FKM), Glass, Polyamid 6.6, Filter material (Polymers, Paper), Epoxy resin and Glass fibre.

Anti-suckback valve

The anti-suckback valve (called ASBV) is protected by a metal wire mesh filter. During a pump stop (for example due to shut down or a power failure), the ASBV closes the intake quickly. This prevents the pressure from rising in the connected chamber while the pump is vented at the same time. Any suckback of pump oil into the vacuum system is effectively pre-

vented. This process operates under all operating conditions even when the gas ballast valve is open.

In **SOGEVAC** models from SV 470 B, the anti-suckback valve can be controlled hydraulically or electrically, providing up to 25 % more pumping speed in the low pressure range.



Outstanding features of the **SOGEVAC** pumps

Perfect fit for your applications

Leybold rotary vane vacuum pumps from the **SOGEVAC** series excel through numerous special features:



Environment Friendly

- Exhaust gas with low oil mist thanks to the integrated efficient exhaust filters, typically 10 times better than competitive pumps
- Reduced energy consumption, typically 15% less than competitive pumps



Fully Customised

- Continuous operation from atmospheric pressure to ultimate pressure
- High pumping speed even at low pressures
- Efficient air cooling (standard), Water cooling (optional)
- Direct fitting for Roots pumps (SOGEVAC SV100 B-750 B)
- High water vapor tolerance



Compact

- Small footprint, easy to install
- Integrated motor (up to 65 m³/h) and oil transfer design
- Rugged and maintenance-friendly with low spare part requirements

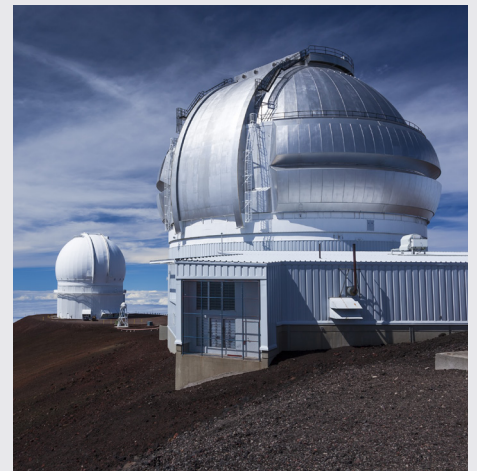


Silent Vacuum

- Low noise and vibration levels, typically 50% quieter than competitive pumps
- Pleasant working environment, no added noise

Typical applications

- Automotive industry
- Food industry
- Heat treatment
- Vacuum coating
- Metallurgy
- Power engineering
- Space simulation
- Medical technology
- Composites and resin degassing
- Vacuum drying
- Leak testing
- Central vacuum systems



Overview

SOGEVAC models

Technical data (50 Hz)

		SV 16 D	SV 25 D	SV 10 B	SV 16 B	SV 25 B	SV 40 B	SV 65 B	SV 100 B
Nominal pumping speed (DIN 28 400 ff)	m³/h	16	25	11	16	26	44	59	97.5
Pumping speed, according to DIN 28 400 ff	m³/h	14.5	22.5	9.5	15	22.5	38.5	54	87.5
Ultimate total pressure without gas ballast	mbar	≤ 0.5	≤ 0.5	≤ 1.5	≤ 1.0	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Ultimate total pressure with standard gas ballast	mbar	≤ 1.5	≤ 1.5	≤ 2.5	≤ 2.0	≤ 0.8	≤ 1.5	≤ 1.5	≤ 1.5
Water vapor tolerance with standard gas ballast, max.	mbar	15	15	10	10	10	30	30	30
Motor power	kW	0.75	0.75	5.5	5.5	0.9	1.1	1.5	2.2
Noise level	dB(A)	59	59	62	62	64	58	60	61
Oil filling capacity (min.)	l	2.0	2.0	0.5	0.5	0.5	1.0	2.0	2.0
Protection class	IP	55-F	55-F	55-F	55-F	55-F	55-F	55-F	55-F
	See page	6	6	7	7	7	8	8	9

* ATEX Cat. IIA



SV 120 B	SV 220 B	SV 300 B	SV 320 B	SV 470 B	SV 570 B	SV 630 B	SV 750 B	SV40 ATEX Cat. 1
130	200	280	330	470	570	700	840	46
110	179	240	284	400	470	640	755	35*
≤ 0.5	≤ 0.08	≤ 0.08	≤ 0.08	≤ 0.08	≤ 0.08	≤ 0.08	≤ 0.08	≤ 0.8
≤ 1,5	≤ 0.7	≤ 0.7	≤ 0.7	≤ 0.7	≤ 0.5	≤ 0.7	≤ 0.7	≤ 1,5
30	35	10.0	10.0	15.0	20.0	40.0	50.0	30
2.4	4.5	5.5	6.0	9.2	11.0	15.0	18.5	1.5
61	69	72	70	72	75	72	75	63
2.0	7.5	8.5	8.5	20	20	20	20	2.0
55-F	55-F	55-F	55-F	55-F	55-F	55-F	55-F	55-F
9	10	10	10	11	11	12	12	13

Vacuum oil recommendation						
LVO 120 / 130	LVO 140 / 150	LVO 211	LVO 300	LVO 400 / 420	LVO 700 / 710	DOT 4



SOGEVAC SV 16 D and SV 25 D

Our solution

- 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
- 3 phase wide range motors
- Different single phase motors with overload protection in accordance to EN 61010-1



Technical Data					
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	16.0	18.7	25.0	29.0
Pumping speed ¹⁾	m ³ /h	14.5	17.0	22.5	25.5
Ultimate total pressure					
without gas ballast ¹⁾	mbar	≤ 0.5		≤ 0.5	
with gas ballast ¹⁾	mbar	≤ 1.5		≤ 1.5	
Water vapor tolerance ¹⁾	mbar	15		15	
Oil filling	l	2		2	
Noise level	dB (A)	59		59	
Motor power (1~ + 3~), max.	kW	0.75	0.90	0.75	0.90
Nominal speed	rpm	1440	1750	1440	1750
Weight (with oil filling)	kg	25		25	
Connections, intake and exhaust side		G 1/2"		G 1/2"	
Dimensions (L x W x H)	mm	268 x 247 x 440		268 x 247 x 440	

Ordering Information *	SV 16 D	SV 25 D
SOGEVAC rotary vane pump with UL/CSA three-phase world motor and integrated gas ballast		
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		
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	-

¹⁾ in acc. with DIN 28 400 et. seq.

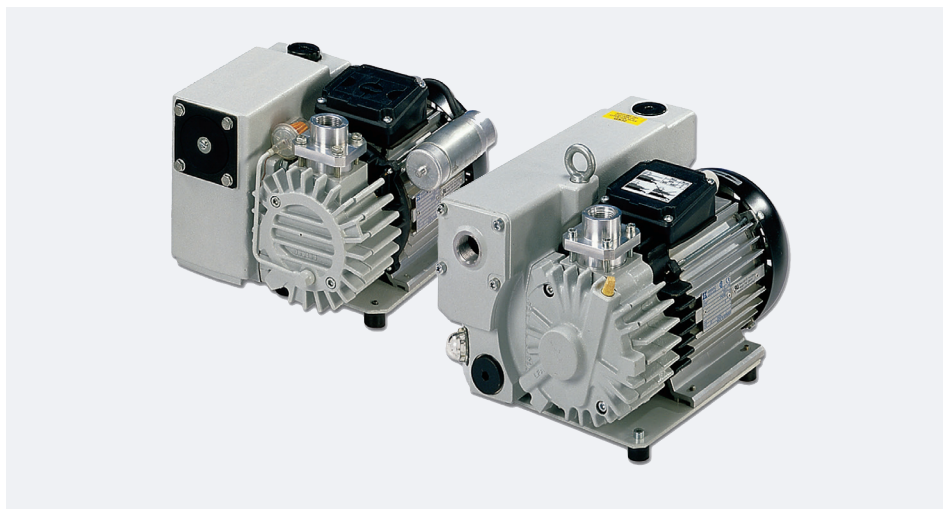
²⁾ 230 V ±10% only

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

SOGEVAC SV 10 B, SV 16 B and SV 25 B

Our solution

- Compact design thanks to integrated motor
- Different motors available (3 phase and single-phase)
- Ask for application-specific variants



Technical Data							
SOGEVAC Rotary vane pump		SV 10 B		SV 16 B		SV 25 B	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ /h	11.0	13.0	16.0	19.0	26.0	31.0
Pumping speed ¹⁾	m ³ /h	9.5	11.5	15.0	17.0	22.5	25.0
Ultimate total pressure							
without gas ballast ¹⁾	mbar	≤ 1.5		≤ 1.0		≤ 0.5	
with gas ballast ¹⁾	mbar	≤ 2.5	≤ 1.5	≤ 1.0		≤ 0.8	
Water vapor tolerance ¹⁾	mbar	10	15	10	15	10.0	10.0
Oil filling	l	0.5		0.5		0.5	
Noise level	dB (A)	62	66	62	66	64	67
Motor power (1~ + 3~), max.	kW	0.55	0.75	0.55	0.75	0.9	1.1
Nominal speed	rpm	3000	3600	3000	3600	3000	3600
Weight (with oil filling)	kg	20		20.5		26	
Connections, intake		G 3/4" + 1/2"					
Connections, exhaust		Accessory		Accessory		G 3/4"	
Dimensions (L x W x H)	mm	315 x 281 x 199				356 x 275 x 246	
Ordering Information *		SV 10 B	SV 16 B	SV 25 B			
SOGEVAC rotary vane pump with three-phase motor and permanent gas ballast							
220–240/380–415 V, 50 Hz and 220–266/380–460 V, 60 Hz (CEI)		960 100	960 160	960 251			
200 V +10-15%, 50/60 Hz		upon request	960 175	–			
SOGEVAC rotary vane pump with single-phase motor and permanent gas ballast							
230 V, 50/60 Hz (CEI)		960 105	960 165	960 256			
110–120 V, 60 Hz		960 110	960 170	–			
100 V, 50/60 Hz		–	–	–			

¹⁾ in acc. with DIN 28 400 et. seq.

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

SOGEVAC SV 40 B - SV 65 B

Our solution

- Compact design thanks to integrated motor
- Different 3 phase motors available
- Ask for application-specific variants
- Fastest cycle time on the market



Technical Data					
SOGEVAC Rotary vane pump		SV 40 B		SV 65 B	
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ /h	44.0	53.0	59.0	71.0
Pumping speed ¹⁾	m ³ /h	38.5	47.0	54.0	64.0
Ultimate total pressure					
without gas ballast ¹⁾	mbar	≤ 0.5		≤ 0.5	
with gas ballast ¹⁾	mbar	≤ 1.5		≤ 1.5	
Water vapor tolerance ¹⁾	mbar	30		30	
Oil filling	l	1		2	
Noise level	dB (A)	58	60	60	64
Motor power max.	kW	1.1	1.5	1.5	1.8
Nominal speed	rpm	1500	1800	1500	1800
Weight (with oil filling)	kg	43	45	49	52
Connections, intake and exhaust side		G or NPT 1 1/4"			
Dimensions (L x W x H)	mm	425 x 284 x 265		480 x 320 x 264	

Ordering Information *	SV 40 B	SV 65 B
SOGEVAC rotary vane pump with UL/CSA three-phase world motor, without gas ballast, with oil filter		
210 - 240 & 360 - 420 V ± 5%, 50 Hz & 210 - 260 & 360 - 460 V ± 5%, 60 Hz	960 320	–
SOGEVAC rotary vane pump with UL/CSA three-phase world motor, standard gas ballast and oil filter		
210 - 240 & 360 - 420 V ± 5%, 50 Hz & 210 - 260 & 360 - 460 V ± 5%, 60 Hz	960 324	960 424
200 V +10-15%, 50/60 Hz	–	960 419 TE
230 / 400 V ± 10 %, 50 Hz and 460 V ± 10 %, 60 Hz	960 307	960 407

¹⁾ in acc. with DIN 28 400 et. seq.

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

SOGEVAC SV 100 B - SV 120 B

Our solution

- Different 3 phase motors available
- Ask for application-specific variants
- Fastest cycle time on the market
- High process resistance thanks to big oil volume



Technical Data					
SOGEVAC Rotary vane pump		SV 100 B		SV 120 B	
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ /h	97.5	117.0	120.0	147.0
Pumping speed ¹⁾	m ³ /h	87.5	105.0	110.0	122.0
Ultimate total pressure					
without gas ballast ¹⁾	mbar	≤ 0.5		≤ 0.5	
with gas ballast ¹⁾	mbar	≤ 0.8		≤ 1.5	
Water vapor tolerance ¹⁾	mbar	30		30	
Oil filling	l	2.0		2.0	
Noise level	dB (A)	61	64	61	64
Motor power max.	kW	2.2	3.5	2.4	3.2
Nominal speed	rpm	1500	1800	1500	1800
Weight (with oil filling)	kg	92	93	94	
Connections, intake and exhaust side		G or NPT 1 1/4"			
Dimensions (L x W x H)	mm	755 x 400 x 270		755 x 400 x 290	

Ordering Information *	SV 100 B	SV 120 B
SOGEVAC rotary vane pump with three-phase world motor, without gas ballast, with oil filter		
230/400 V, 50 Hz and 460 V, 60 Hz	960 502	–
230/400 V ±10%, 50 Hz and 230/400/460 V ±10%, 60 Hz	–	–
SOGEVAC rotary vane pump with three-phase world motor, standard gas ballast and oil filter		
220 / 230 / 240 & 380 / 400 / 415 V ± 10%, 50 Hz 220 / 230 & 380 / 400 / 460 V ± 10%, 60 Hz	960 524	960 557
200 V +10-15%, 50/60 Hz	960 519 TE	–
230 / 400 V ± 10 %, 50 Hz and 460 V ± 10 %, 60 Hz	960 507	–

¹⁾ in acc. with DIN 28 400 et. seq.

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

SOGEVAC SV 220 B, SV 300 B and SV 320 B

Our solution

- Longest oil life time due to coolest pump on the market
- Different 3 phase motors available
- Ask for application-specific variants
- Fastest cycle time on the market
- High process resistance thanks to big oil volume
- Monitoring possibilities
- 20 % lower power consumption vs. competition



Technical Data							
SOGEVAC Rotary vane pump		SV 220 B		SV 300 B		SV 320 B	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ /h	200.0	240.0	280.0	340.0	330.0	385.0
Pumping speed ¹⁾	m ³ /h	179.0	214.0	240.0	290.0	284.0	330.0
Ultimate total pressure							
without gas ballast ¹⁾	mbar	≤ 0.08		≤ 0.08		≤ 0.08	
with gas ballast ¹⁾	mbar	≤ 0.7		≤ 0.7		≤ 0.7	
Water vapor tolerance ¹⁾	mbar	35	40	10	12	10	12
Oil filling	l	5.0 - 9.0		8.5 - 11.5		8.5 - 11.5	
Noise level	dB (A)	69	73	72	76	72	73
Motor power max.	kW	4.5	4.8	5.5	6.3	7.5	7.5
Nominal speed	rpm	1450	1750	1500	1800	1500	1800
Weight (with oil filling)	kg	180	180	223	225	211	
Connections, intake and exhaust side		G or NPT 2"					
Dimensions (L x W x H)	mm	1070 x 535 x 425		1115 x 555 x 450		1120 x 565 x 450	
Ordering Information *		SV 220 B		SV 300 B		SV 320 B	
SOGEVAC rotary vane pump with world motor and integrated gas ballast							
200 V -15 % ... 240 V +10% / 380 ... 415 V ±10%, 50 Hz 200 V -15 % ... 230 V +10% / 380 ... 400 V ±10% & 460 V ±10%, 60 Hz		960 617 V		960 702		960 732 V	

¹⁾ in acc. with DIN 28 400 et. seq.

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

SOGEVAC SV 470 B - SV 570 B

Our solution

- Longest oil life time due to coolest pump on the market
- Different 3 phase motors available
- Ask for application-specific variants
- Fastest cycle time on the market
- High process resistance thanks to big oil volume
- Monitoring possibilities
- 20 % lower power consumption vs competition
- Quietest pump on the market
- 4 times quicker overhaul thanks to belt drive
- Direct Roots coupling without any additional base frame, up 5000 m³/h



Technical Data				
SOGEVAC Rotary vane pump		SV 470 B		SV 570 B
		50 Hz	60 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ /h	470.0	570.0	570.0
Pumping speed ¹⁾	m ³ /h	400.0	470.0	470.0
Ultimate total pressure				
without gas ballast ¹⁾	mbar	≤ 0.08		≤ 0.08
with gas ballast ¹⁾	mbar	≤ 0.7		≤ 0.7
Water vapor tolerance ¹⁾	mbar	15	20	20
Oil filling	l	20.0		
Noise level	dB (A)	72	75	75
Motor power max.	kW	9.2	13.2	13.2
Nominal speed	rpm	820	1000	1000
Weight (with oil filling)	kg	480	550	550
Connections, intake and exhaust side		G or NPT 3"		
Dimensions (L x W x H)	mm	1305 x 863 x 733		1305 x 863 x 733

Ordering Information *	SV 470 B	SV 570 B
SOGEVAC rotary vane pump with three-phase EU motor		
230 V / 400 V, 50 Hz and 460 V, 60 Hz	960 753V	–
230 V / 400 V, 50 Hz	–	960 765V
SOGEVAC rotary vane pump with three-phase world motor		
230 V / 400 V, 50 + 60 Hz / 460 V, 60 Hz	960 754V	–
230 V / 400 V, 50 Hz	–	960 766V

¹⁾ in acc. with DIN 28 400 et. seq.

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

SOGEVAC SV 630 B - SV 750 B

Our solution

- Fastest cycle times
- Longest oil life time due to coolest pump on the market
- Different 3 phase motors available
- Ask for application-specific variants
- High process resistance thanks to big oil volume
- Monitoring possibilities
- 20 % lower power consumption vs. competition
- Quietest pump on the market
- 4 times quicker overhaul thanks to belt drive
- Direct Roots coupling without any additional base frame, up 7000 m³/h
- Air or water cooled pumps



Technical Data				
SOGEVAC Rotary vane pump		SV 630 B		SV 750 B
		50 Hz	60 Hz	50 Hz
Nominal pumping speed ¹⁾	m ³ /h	700.0	840.0	840.0
Pumping speed ¹⁾	m ³ /h	640.0	755.0	755.0
Ultimate total pressure				
without gas ballast ¹⁾	mbar	≤ 0.08		≤ 0.08
with gas ballast ¹⁾	mbar	≤ 0.7		≤ 0.7
Water vapor tolerance ¹⁾	mbar	40	50	50
Oil filling	l	20.0		
Noise level	dB (A)	72	75	75
Motor power max.	kW	15.0	18.5	18.5
Nominal speed	rpm	820	1000	1000
Weight (with oil filling)	kg	730	750	750
Connections, intake side		DN 100 PN 10 / 100 ISO-K		
Dimensions (L x W x H)	mm	1510 x 909 x 740		1510 x 909 x 740
Ordering Information *		SV 630 B	SV 750 B	
SOGEVAC rotary vane pump with three-phase motor (water cooled)				
200 V, 50 Hz (JIS) and 200 V, 60 Hz		960 866 TE	-	
380/400/415/690 V, 50 Hz and 440/460 V, 60 Hz		960 867	-	
SOGEVAC rotary vane pump with three-phase motor (water cooled)				
380/400/415/690 V, 50 Hz		-	960 877	

¹⁾ in acc. with DIN 28 400 et. seq.

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

SOGEVAC ATEX variants

Our solution

Leybold offers various models for explosion proof applications. Our ATEX variants are available in the following categories:



- Cat. 1(i) 2(o)
- Cat. 2(i) 2(o)
- Cat. 3(i) 3(o)

The **SOGEVAC** ATEX rotary vane vacuum pumps comply with the European Directive 2014/34/EU. These pumps are equipped with corresponding ATEX motors. The plastic parts are antistatic as well as the exhaust oil mist separator filters.

They are suited for pumping solvents, for drying, filling applications including IIB + H₂ or IIA gas groups.

For details on ATEX Cat 1, 2 and 3 pumps, please contact us.



Technical Data		SV 40 ATEX	
SOGEVAC Rotary vane pump		50 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ /h	46.0	55.2
Pumping speed ¹⁾			
IIB + H ₂	m ³ /h	26.0	29.0
IIA		35.0	42.0
Ultimate total pressure			
without gas ballast ¹⁾ IIA / IIB + H ₂	mbar	≤ 0.8	
with gas ballast ¹⁾ IIA / IIB + H ₂	mbar	≤ 1.5	
Water vapor tolerance ¹⁾	mbar	30	
Oil filling	l	2.0	
Noise level	dB (A)	63	68
Motor power max.	kW	1.5	1.8
Nominal speed	rpm	1500	1800
Weight (with oil filling)	kg	110	
Connections, intake IIB + H ₂ and exhaust side		G 1 1/4"	
Connections, intake IIA		G 3/4"	
Dimensions (L x W x H)	mm	768 x 490 x 437	
Ordering Information *		SV 40 ATEX	
SOGEVAC SV 40 ATEX IIA / IIB + H ₂ (50 Hz) in accordance with 2014/34/EU			
 II 1/2 Gh IIB + H ₂ T4 Gb (+5 °C ≤ t _a ≤ 40 °C) EC Type Examination Certificate: PTB04ATEX4013X] with permanent gas ballast		960 345	
 II 1/2 Gh IIB + H ₂ 160 °C Gb (+5 °C ≤ t _a ≤ 40 °C) EC Type Examination Certificate: PTB04ATEX4013X] without gas ballast		960 346	

¹⁾ in acc. with DIN 28 400 et. seq.

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

For all enquiries and orders relating to category 1 and 2 ATEX products please use our ATEX questionnaire. This document is available for download "www.leybold.com" or simply contact us.

TwinFilter 500

Double inlet filter and roots adapter combination for **SOGEVAC** models SV 470 B(F), SV 570 B(F), SV 630 B(F) and SV 750 B(F).

To avoid dust particles in your process use the double inlet filter and Roots adapter TwinFilter 500.

The TwinFilter replaces the otherwise needed Roots pump adapter to adapt a Roots vacuum pump. The Roots pump can be fitted directly on to the TwinFilter.



Our solution

- Protects the pump against dust and particles
- Compact forevacuum pump combination
- No external frame required: costs and space savings
- Very compact combinations: space savings yet roughing pump protection
- Allows to have two different protection filters in series: more efficient filtration and longer filter lifetime
- No elbows, bellows, adapters required for filter mounting: cost savings and easy installation

Ordering Information *	Roots adapter
Adapter for Roots vacuum pumps	
RUVAC WH 700/702	9516241V
RUVAC WA(U)/WS(U) 1001	9516242V
RUVAC WA(U)/WS(U) 2001	9516243V
RUVAC WH(U) 2500	9516244V

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

Filter cartridge selector and ordering information

Application / Process	Filter insert material				
	Active charcoal	Metal 0.09 mm	Polyester 25 µm	Polyester 2 µm	Paper 2 µm
Dry process: dust, powders, chips etc.			1		2
Wet (vapor) process: dust, powders, chips etc.			1	2	
Heavy particles, plastics, glass, packaging materials, food stuff, etc.		1		2	
Vapors of high molecular weight (e.g. solvents, resin and acid vapors, alkaline solutions)	1			2	
Part No.					
9516248CAPO	X			X	
9516248MAPO		X		X	
9516248PAPO			X		X
9516248PP			X	X	
9516248V (w/o filter insert)					
Spare inlet filter inserts	EK95162CA	EK95162MA	EK95162PO25	EK95162PO2	EK95162PA

1 = Filter no. 1
2 = Filter no. 2

For our full line of accessories for SOGEVAC B pumps, please refer to our general catalogue or simply contact us.

SOGEVAC Systems

Systems based on **SOGEVAC** rotary vane pumps in combination with Roots blowers from the **RUVAC** WA, WS or WH families are the industrial standard for all moderately demanding processes.

Vacuum systems based on oil-sealed **SOGEVAC** pumps deliver efficient cost vs. performance ratio for a broad base of industrial applications.

Our solution

- Fully modular system design with standard component combinations
- Smart combinations of **SOGEVAC** rotary vane pumps and **RUVAC** roots blowers
- Fast response times for quotations
- Shorter lead times compared to customized pump systems
- Well thought-out service concept
- Standard electrical cabinet with an identical operating concept
- Standard I/O interface
- Additional features like emergency stop switch "EMS"



Oil for SOGEVAC pumps

LEYBONOL oils and lubricants from Leybold are especially designed with regard to the high demands in vacuum technology. Their vapour pressure is low at high temperatures and the water content and water uptake is minimal. Their viscosity characteristics are flat, lubricating properties excellent, and they have high resistance against thermal decomposition and increased mechanical stress. Depending on the requirements (resistance to hydrolysis or oxidation, non-flammability, DOT-compatibility, approvability for food industry, etc.) different oil fractions, greases and pump fluids are available.



MINERAL OIL

ESTER OIL

PAO OIL

SOGEVAC models

	SV 16 D	SV 25 D	SV 10 B	SV 16 B	SV 25 B	SV 40 B	SV 65 B	SV 100 B	SV 120 B	SV 200 B	SV 300 B	SV 320 B	SV 470 B	SV 570 B	SV 630 B	SV 750 B	SV40 ATEX Cat. 1
LEYBONOL Oils																	
LVO 120 (Standard mineral oil)	■	■	■	■	■	▲ ¹⁾											
LVO 130 (Standard mineral oil)	▲	▲				▲ ²⁾	■	■	■	■	■	■	■	■	■	■	
LVO 140 (Food Grade Oil)	●	●	●	●	●	▲	▲	▲	▲								
LVO 150 (Food Grade Oil)					▲	●	●	●	●	●	●	●	●	●	●	●	
LVO 211 (Synthetic ester oil)	▲ ²⁾	▲ ²⁾	▲	▲	▲	●	●	●	●	●	●	●	●	●	●	●	■
LVO 300 (PAO synthetic oil)	●	●				●	●	●	●	●	▲	▲	▲	▲	▲	▲	
LVO 400 (PFPE oil)							●	●	●	●	●	●	●	●	●	●	
LVO 420 (PFPE oil)	●	●															
LVO 700 (Synthetic cyclic hydrocarbon oil)	●	●	●	●	●												
LVO 710						●	●	●	●	●	●	●	●	●	●	●	●
DOT 4						●											

- = Standard
- = Possible
- ▲ = Please contact Leybold

- ¹⁾ = with single-phase motor
- ²⁾ = with three-phase motor
- ³⁾ = ATEX outside only

For further questions, please contact our technical sales support. **For information on oil specifications please refer to our general catalogue.**



PFPE OIL

DIFFUSION PUMP OIL

SPECIAL SYNTHETIC LUBRICANT



Vacuum oil recommendation

LVO 120 / 130	LVO 140 / 150	LVO 211	LVO 300	LVO 400 / 420	LVO 700 / 710	DOT 4
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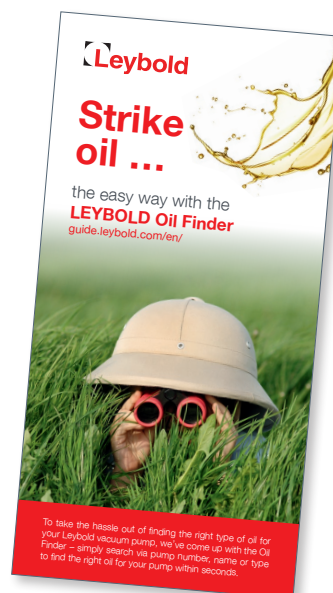
Applications

Vacuum coating	●		●		●	●	
Research and development	●		●		●	●	
Chemistry / Pharmaceuticals	●		●	●	●	●	
Metallurgy / Furnaces	●		●			●	
Lamps and tubes manufacture	●		●			●	
Automotive industry							●
Space simulation	●					●	
Environment engineering	●			●		●	
Cooling and air-conditioning	●			●		●	
Electrical engineering	●			●		●	
Mechanical engineering	●	●		●	●	●	
Medical technology	●	●	●	●		●	
Freeze drying systems	●			●		●	
Backing pump for high vacuum pump systems	●			●	■	●	
Food industry **	●	●		●		●	
Plant engineering	●			●		●	
Power engineering / District heating	●		●			●	
Cleaning	●	●		●	●	●	
Packaging	●		●	●		●	

** please refer to our special catalog «Vacuum pumps for Food Packaging and Processing»

● = Standard
■ = Contact Leybold

You can find the correct oil for your pump using the Oil finder:



Service – Easy, competent, reliable



SERVICE CONTRACTS

Our full range of service contracts are designed to ensure the lowest total cost of ownership of your pumps, maximizing their performance and uptime. From preventive maintenance contracts to warranty extensions, we offer you customized solutions that let you focus fully on your production by providing a perfect match to your needs.



SPARE PARTS AND KITS

Our genuine spare parts fit your vacuum pump perfectly to ensure high reliability, performance, and a long service life. To ease your workflow and ensure you have everything you need for your pump, we put together spare parts kits for specific maintenance activities.



SERVICE TECHNOLOGY CENTER

Fully equipped to handle pumps from every kind of application, even the harshest, our service technology centers are ready to service your pumps. From preventive maintenance to repair, we offer transparent fixed-price solutions and the capability to do anything your pump requires.



FIELD SERVICE

Our team of vacuum pump experts come to your site to perform maintenance on your pumps, whether it is routine service or troubleshooting. Competent, reliable and there for you, they know what your pumps need to perform flawlessly at their best.



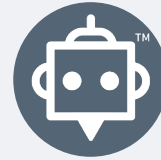
CERTIFIED AND EXCHANGE

Our certified and exchange stock is always available in an emergency and to ensure your manufacturing continues as smoothly as possible with a minimum of downtime. All pumps come with a 12-month warranty and are rebuilt and tested to industry standards to ensure that they deliver OEM performance.



LEYBONOL VACUUM PUMP OIL

LEYBONOL has been specially formulated to achieve the best performance for your pump. The premium quality of LEYBONOL ensures long oil exchange intervals and reduces power consumption as well as wear and maintenance costs. Our certified oils keep your production running and extend your pump life expectancy.



GENIUS INSTANT INSIGHTS™

Our connectivity solution offers you 24/7 remote mobile access to your vacuum pumps. Alarms on failures, service maintenance, insights on up-time and energy consumption are all transparent on the Genius Portal. With Genius you can set up real time notifications about important events coming from the vacuum system, giving you the opportunity to avoid costly downtime and production losses – it has never been so convenient and easy to have a healthy and reliable vacuum pump installation.



HEALTH CHECK PRO

Our approach to keep your vacuum pumps always in best shape. With Health Check PRO, we perform regular assessment to the pumps, it consists of non-invasive inspection of parts, connections, damages and vibration measurement, Health Check PRO allows customers to identify early deviations on pumps condition that could lead to major failure and jeopardize production output, moreover, customer will get detailed report with all recommendations needed to act preventively.



We are where you are

With our comprehensive range of innovative service solutions, we offer unrivaled support for your Leybold vacuum pumps, and we're committed to:

- **Providing you with reliable, first-class service throughout the life of your pump, no matter where in the world it's installed**
- **Maximizing your pump's uptime and ensuring it receives the best possible service**
- **Offering you specialized support with preventive maintenance and repairs**



Maintaining your uptime and reducing the risk of production downtime is critical. Wherever you are, Leybold is there to support you as your vacuum service partner. Our Field Service Team and our fully-equipped Service Technology Centers are at your disposal.

- Oil and spare parts
- Exchange pumps
- Certified used vacuum pumps
- Pump repair centers
- Service agreements
- On-site service
- Pump rentals



Pioneering products. Passionately applied.