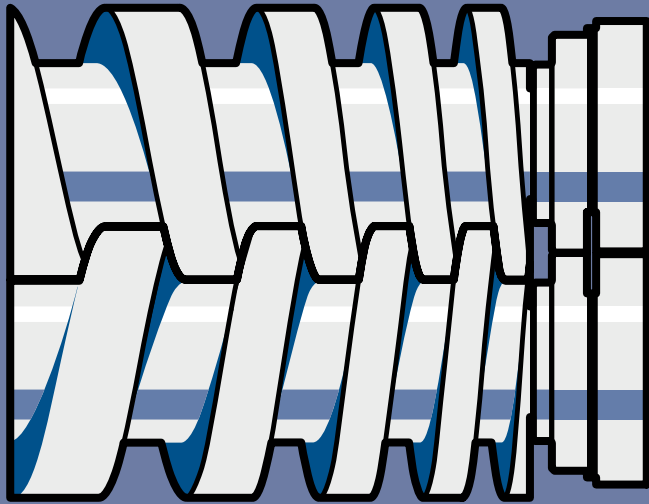


171.06.02
Excerpt from the
Leybold Full Line Catalog 2005
Product Section C05
Edition May 2005



C05

ScrewLine

Dry Compressing
Screw Vacuum Pump
for Industrial Applications

 **Leybold**
vacuum

General

Dry Compressing Screw Vacuum Pump ScrewLine C05.03

Products

ScrewLine SP250 C05.08
 ScrewLine SP630 C05.10
 ScrewLine SP630 F C05.11

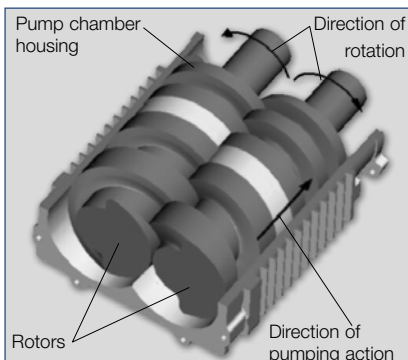
Accessories / Miscellaneous

SP Guard C05.12
 Vacuum Pump Oils C05.12
 Maintenance Kit for changing the Gear Oil C05.12

Dry Compressing Screw Vacuum Pumps ScrewLine

Principle of Operation

ScrewLine vacuum pumps are dry compressing backing pumps, the operation of which is based on the screw principle. The pumping chamber of the pump is formed by two synchronised positive displacement rotors and the housing enclosing these. Since the rotors rotate in opposite directions, the chambers move steadily from the intake to the exhaust side of the pumps thereby resulting in a smooth pumping action (see figure below). Since with a single ScrewLine rotor pair a multistage compression process is implemented, the component count in the pumping path is very low. In this way maintenance and servicing work is much simplified.



Principle of operation of the ScrewLine pumps

Properties

The direct pumping path without multiple deflections for the medium make the ScrewLine vacuum pumps highly insensitive to foreign materials. This ensures a high uptime in industrial processes.

The two shaft-sealed non-contacting and thus practically wear-free, which allows for very long maintenance intervals.

For standard applications no purge gas is required. However, a purge gas supply can be connected as an option to purge the seals, should the application process require this.

Because of the cantilevered bearing arrangement for the ScrewLine rotors, a potential source of failure (i.e. a bearing on the intake side) is entirely eliminated. On the one hand, no lubricants from the bearings can enter into the vacuum process, and the other hand also an impairment of the bearing by aggressive process media can be excluded.

A further benefit of the cantilevered bearing arrangement is the easy accessibility of the pump chamber. This innovative design feature allows the removal of the pump housing without time-consuming and costly disassembly of the bearings. Thus on-site cleaning of all surfaces in contact with the medium is possible. In particular, if the processes involved considerable amounts of contaminants this is a significant advantage which ensures a long uptime.



SP250 with silencer (horizontal)

Besides the integrated oil cooling arrangement for the rotors, the ScrewLine pumps are air-cooled from the outside. Here rotor and housings are thermally linked via the oil cooler. Thus ScrewLine pumps adapt themselves ideally to the ambient conditions under changing operating situations.

A water-cooled version is offered as ScrewLine SP630 F. This product version is intended for operation in air-conditioned rooms.

The ScrewLine offer is completed through ATEX-certified variants.



Oil/water cooling unit SP630 F

Maintenance and Monitoring

During the development of the ScrewLine pumps special emphasis was placed on a particularly simple maintenance concept. On the one hand this has been implemented through the cantilevered bearing arrangement, on the other hand all maintenance components and controls have been located on the so-called service side for easy accessibility. Thus the space requirement which needs to be taken into account during planning has been optimised. The lower space requirement gives the user more flexibility during installation of the pump.

The monitoring system SP Guard was developed specially for constant monitoring of the operational status of the ScrewLine vacuum pumps. The operating parameters are constantly acquired and processed.

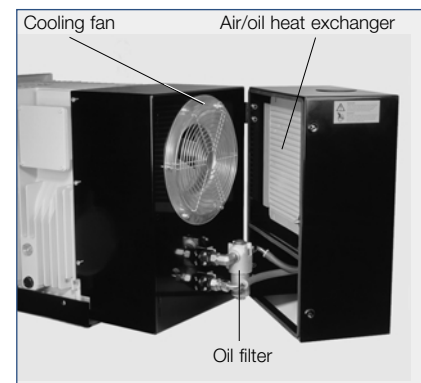
This enables the user to introduce preventive actions early enough so as to ensure trouble-free operation of his ScrewLine vacuum pumps. The key current operating parameters can be read off from a display. Moreover, connection to a PLC is possible. Maintenance of the ScrewLine pumps will generally be limited to a regular visual inspection of the pump and the annual change of gear oil and oil filter. The oil fill ports as well as the filters are readily accessible and can be easily exchanged.

With the aid of a flushing kit (optional) it is possible to clean the pump chamber, while the pump is operating without process. Deposits due to the process can thus be removed effectively and quickly without the need of having to disassemble the housing.

Also cleaning of the air/oil heat exchanger can be done simply on-site by blowing out the heat exchanger with compressed air.

Accessories

ScrewLine vacuum pumps offer to the user a high degree of flexibility. Inlet and exhaust connections are made made through universal flanges, respectively clamped flanges, permit simple integration within the system. Through the accessories which are available, the pump can be optimally adapted to the individual requirements of differing applications.



Oil/water cooling unit SP630

The New Dry Compressing Screw Vacuum Pump for Industrial Applications



Pump system ScrewLine SP 630 with RUVAC WAU 2001

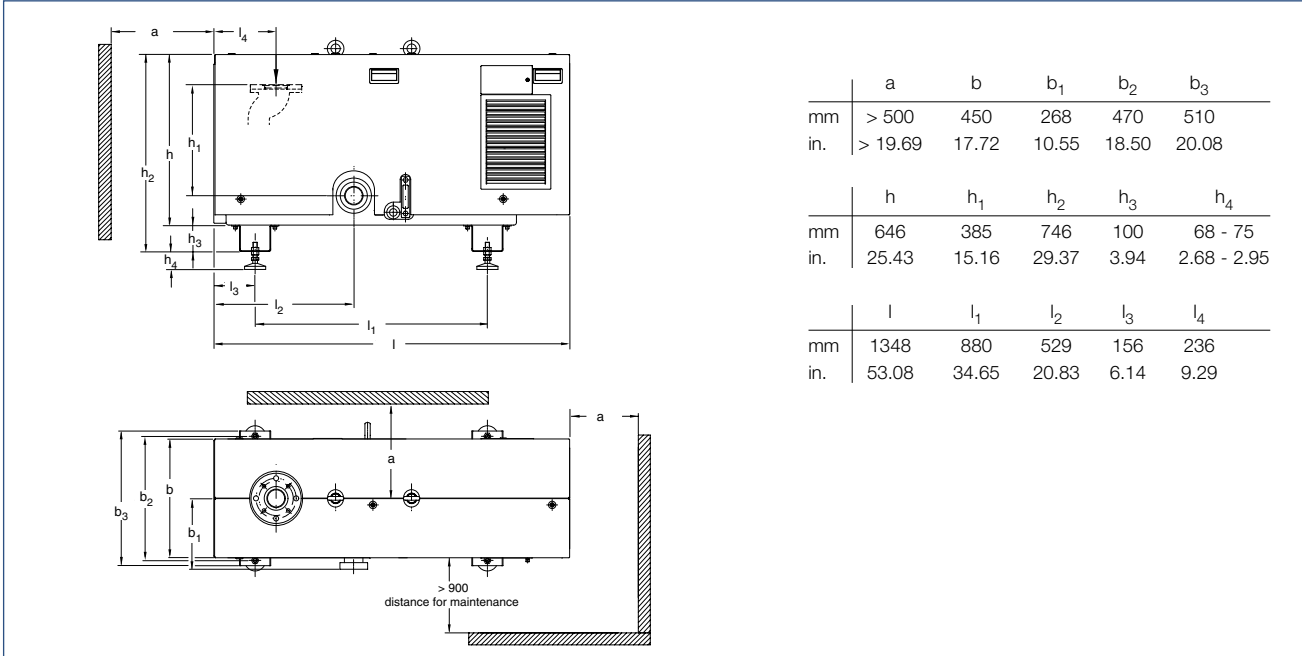
The ScrewLine family of pumps was developed in view of the special requirements of industrial applications. The innovative design allows these pumps to be used where reliable, compact and low maintenance vacuum solutions are demanded.

Advantages to the User

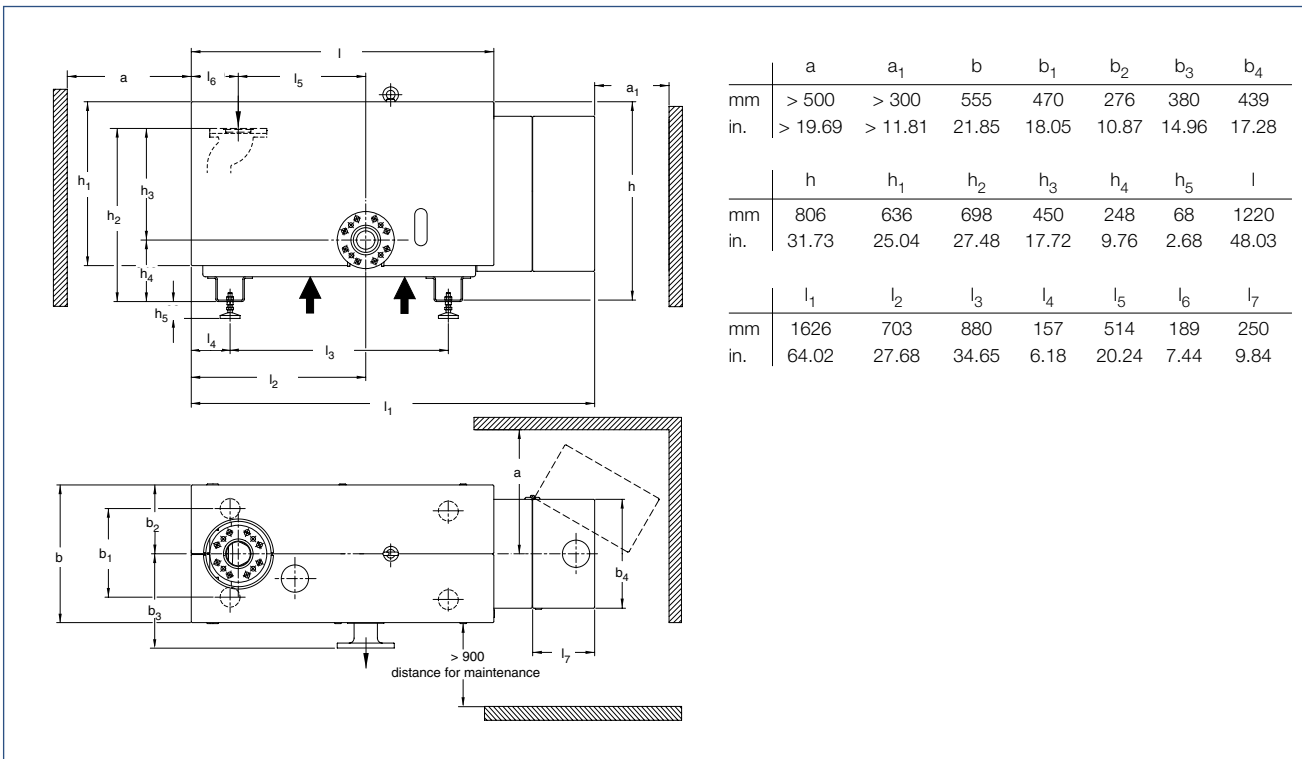
- - Minimum downtimes, maximum availability, highly rugged
- The only vacuum pump with a cantilevered bearing arrangement in the industrial market
- Monitoring through SP Guard
- Highly tolerant of particles and vapours
- Low cost of ownership
 - No purge gas and no cooling water is required for standard applications
 - Low power consumption
 - No contaminated waste oil, no waste disposal costs
- Long maintenance intervals and low servicing complexity
 - Easy and rapid accessibility of all maintenance components and controls
 - Only an annual change of the gear oil is necessary
 - On-site cleaning of the rotors is easy to perform
- Highly flexible
 - Accessories are available for most demanding processes
 - The modular concept allows easy adaptation of the pumping speed of up to 2000 m³/h by combination with RUVAC Roots vacuum pumps
 - Connections provided through universal flanges, respectively clamped flanges allow for simple and flexible integration within systems
 - Basic models plus accessories allow the pumps to be equipped according to specific requirements
- High pumping speed at low ultimate pressure
- Excellent suitability for the short cycles of load lock chambers or similar applications

Typical Applications

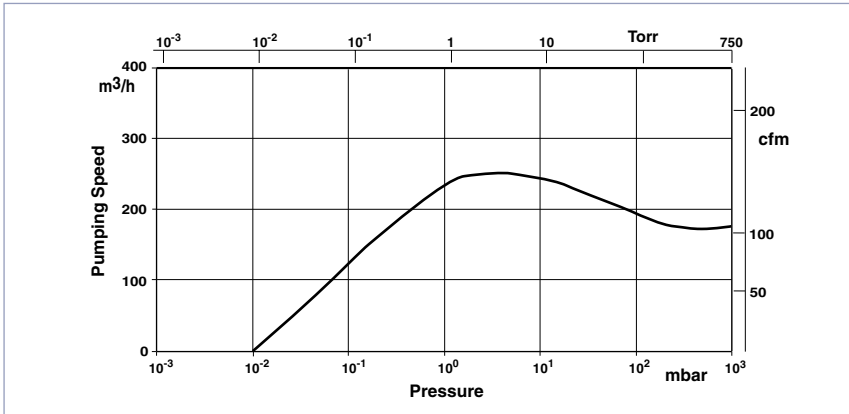
- Industrial furnaces
- Coating technology
- Load lock chambers
- Metallurgical systems
- Packaging technology
- Drying processes
- Degassing
- Research and development
- Lamps and tubes manufacture
- Automotive industry
- Packaging industry
- Space simulation
- Electrical engineering



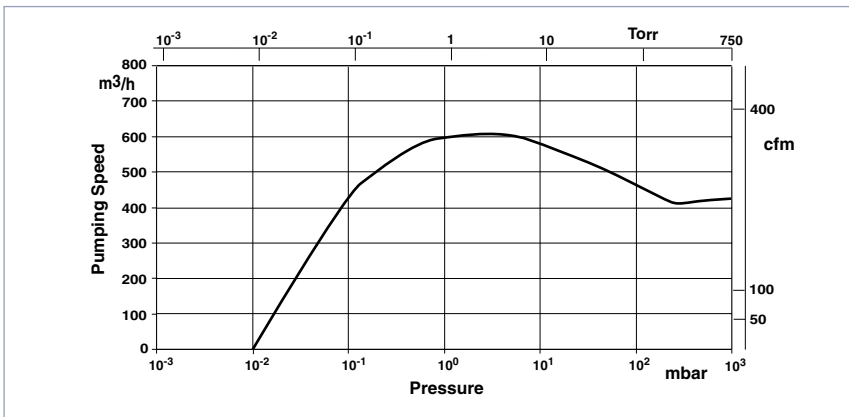
Dimensional drawing for the ScrewLine SP250



Dimensional drawing for the ScrewLine SP630



Effective pumping speed of the ScrewLine SP250 for air, without gas ballast (50 Hz)



Effective pumping speed of the ScrewLine SP630 for air, without gas ballast (50/60 Hz)

Technical Data		ScrewLine SP250	
		50 Hz	60 Hz ¹⁾
Pumping speed	m ³ x h ⁻¹ (cfm)	≥ 250 (≥ 147)	≥ 300 (≥ 177)
Ultimate total pressure	mbar (Torr)	≤ 0.01 (≤ 0.0075)	≤ 0.01 (≤ 0.0075)
Intake pressure limits, max.	mbar (Torr)	1030 (773)	1030 (773)
Maximum exhaust pressure with reference to the ambient pressure		$p_{ex} = p_{amb} + 200 \text{ mbar (150 Torr)}$ $- 50 \text{ mbar (37 Torr)}$	$p_{ex} = p_{amb} + 200 \text{ mbar (150 Torr)}$ $- 50 \text{ mbar (37 Torr)}$
Noise level ²⁾	dB(A)	≤ 75	≤ 75
Permissible ambient temperature	°C (°F)	+10 to +40 (+50 to +104)	+10 to +40 (+50 to +104)
Contamination degree ³⁾		3	3
Water vapour tolerance (with gas ballast)	mbar (Torr)	40 (30)	Currently no data
Water vapour capacity (with gas ballast)	kg x h ⁻¹ (gal x h ⁻¹)	6.3 (1.7)	Currently no data
Relative humidity of the ambient air ⁴⁾	%	max. 95	max. 95
Installation location		up to 3000 metres (9.800 feet) (above sea level)	up to 3000 metres (9.800 feet) (above sea level)
Cooling		Air	Air
Power supply	$\Delta\Delta$ Δ	29.0 A / 200 V 14.5 A / 400 V	Currently no data Currently no data
cos φ		0.84	Currently no data
Nominal power	kW (HP)	7.5 (10.0)	Currently no data
Power consumption at ultimate pressure	kW (HP)	5.9 (< 7.9)	Currently no data
Motor rotational speed	rpm	2920	Currently no data
Type of protection	IP	55	55
Thermal protection class		F	F
Lubricant filling (ANDEROL 555)	l	7	7
Intake flange, standard			
Clamping flange		ISO 1609-1986 (E)-63 (DN 63 ISO-K) ⁵⁾	ISO 1609-1986 (E)-63 (DN 63 ISO-K) ⁵⁾
Flange		ASME B 16.5 NPS 3 class 150	ASME B 16.5 NPS 3 class 150
Flange		EN 1092-2-PN 6 - DN 65	EN 1092-2-PN 6 - DN 65
Exhaust flange, standard			
Clamping flange		ISO 1609-1986 (E)-63 (DN 63 ISO-K)	ISO 1609-1986 (E)-63 (DN 63 ISO-K)
Exhaust flange, optional			
Clamping flange		ISO 1609-1986 (E)-63 (DN 63 ISO-K) ⁵⁾	ISO 1609-1986 (E)-63 (DN 63 ISO-K) ⁵⁾
Flange		ASME B 16.5 NPS 3 class 150	ASME B 16.5 NPS 3 class 150
Flange		EN 1092-2-PN 16 - DN 65	EN 1092-2-PN 16 - DN 65
Flange		EN 1092-2-PN 6 - DN 65	EN 1092-2-PN 6 - DN 65
Materials (components in contact with the gas)		Aluminum, aluminium anodic oxidised, C steel, CrNi steel, grey cast-iron, FPM (Viton)	Aluminum, aluminium anodic oxidised, C steel, CrNi steel, grey cast-iron, FPM (Viton)
Weight, approx.	kg (lbs)	450 (992)	450 (992)
Dimensions (W x D x H)	mm (in.)	1350 x 530 x 880 (51.1 x 20.9 x 34.6)	1350 x 530 x 880 (51.1 x 20.9 x 34.6)

¹⁾ available in July 2005

²⁾ with sealed off lines at ultimate pressure (in accordance with ISO 4871)

³⁾ in accordance with EN 50178

⁴⁾ in accordance with EN 60721-3-3

⁵⁾ this flange is required when ISO-K flanges are to be connected (P/N 267 50)

Ordering Information	ScrewLine SP250	
	50 Hz	60 Hz
ScrewLine SP250 with SP Guard and manual gas ballast	Part No. 115 001	1)
with SP Guard and electromagnetic gas ballast	Part No. 115 002	1)
with SP Guard, electromagnetic gas ballast and purge gas unit	Part No. 115 003	1)
Exhaust silencer	Part No. 119 002	Part No. 119 002
Exhaust non-return valve (DN 100 PN 6)	Part No. 119 011 ¹⁾	Part No. 119 011 ¹⁾
Adaptor for RUVAC 1001/501	Part No. 119 022 ¹⁾	Part No. 119 022 ¹⁾
Purge gas retrofit kit	Part No. 119 031 ¹⁾	Part No. 119 031 ¹⁾

¹⁾ available in July 2005

Technical Data	ScrewLine SP630	
	50 Hz	60 Hz
Pumping speed m ³ x h ⁻¹ (cfm)	630 (371)	630 (371)
Ultimate total pressure mbar (Torr)	≤ 0.01 (≤ 0.0075)	≤ 0.01 (≤ 0.0075)
Maximum exhaust pressure with reference to the ambient pressure	$P_{ex} = P_{amb} + 200 \text{ mbar (150 Torr)}$ $- 50 \text{ mbar (37 Torr)}$	$P_{ex} = P_{amb} + 200 \text{ mbar (150 Torr)}$ $- 50 \text{ mbar (37 Torr)}$
Intake pressure limits, max. mbar (Torr)	1030 (773)	1030 (773)
Noise level ¹⁾ dB(A)	≤ 75	≤ 75
Permissible ambient temperature °C (°F)	+10 to +40 (+50 to +104)	+10 to +40 (+50 to +104)
Contamination degree ²⁾	3	3
Water vapour tolerance (with gas ballast) mbar (Torr)	40 (30)	40 (30)
Water vapour capacity (with gas ballast) kg x h ⁻¹ (gal x h ⁻¹)	14 (3.7)	14 (3.7)
Relative humidity of the ambient air ³⁾ %	max. 95	max. 95
Installation location	up to 3000 metres (9.800 feet) (above sea level)	up to 3000 metres (9.800 feet) (above sea level)
Cooling	Air	Air
Power supply ΔΔ Δ	56 A / 200 V 28 A / 400 V	52 A / 210 V 24 A / 460 V
cos φ	0.89	0.90
Nominal power kW (HP)	15 (20)	15 (20)
Power consumption at ultimate pressure kW (HP)	< 11 (< 15)	< 11 (< 15)
Motor rotational speed rpm	2930	3530
Type of protection IP	55	55
Thermal protection class	F	F
Lubricant filling (ANDEROL 555) l	15	15
Intake flange and exhaust flange compatible to	EN 1092-2 - PN 6 - DN 100 EN 1092-2 - PN 16 - DN 100 ISO 1609-1986 (E)-100 (DN 100 ISO-K) ⁴⁾ ASME B 16.5 NPS4 class 150	EN 1092-2 - PN 6 - DN 100 EN 1092-2 - PN 16 - DN 100 ISO 1609-1986 (E)-100 (DN 100 ISO-K) ⁴⁾ ASME B 16.5 NPS4 class 150
Materials (components in contact with the gas)	Aluminum, aluminium anodic oxidised, C steel, CrNi steel, grey cast-iron, FPM (Viton)	Aluminum, aluminium anodic oxidised, C steel, CrNi steel, grey cast-iron, FPM (Viton)
Weight, approx. kg (lbs)	530 (1166)	530 (1166)
Dimensions (W x D x H) mm (in.)	1630 x 660 x 880 (64 x 26 x 35)	1630 x 660 x 880 (64 x 26 x 35)

¹⁾ with sealed off lines at ultimate pressure (in accordance with ISO 4871)

²⁾ in accordance with EN 50178

³⁾ in accordance with EN 60721-3-3

⁴⁾ this flange is required when ISO-K flanges are to be connected (P/N 267 50)

Additional Technical Data	ScrewLine SP630 F	
	50 Hz	60 Hz
Cooling	Water	Water
Water connection G	1/2" ISO 228-1	1/2" ISO 228-1
Water temperature °C (°F)	5 - 35 (41 - 95)	5 - 35 (41 - 95)
Minimum water feed pressure bar (psi, gauge)	2 (15)	2 (15)
Nominal flow at a water feed temperature of 25° C (77 °F) l / min (gal / min)	12 (3)	12 (3)
Ordering Information	ScrewLine SP630/SP630 F	
	50 Hz	60 Hz
ScrewLine SP630 air cooled, with SP Guard with adaptor for RUVAC 2001, SP Guard and electromagnetic gas ballast with SP Guard and manual gas ballast with SP Guard and electromagnetic gas ballast with adaptor for RUVAC 2001, SP Guard and manual gas ballast with SP Guard, purge gas kit and manual gas ballast with SP Guard, purge gas kit and electromagnetic gas ballast	Part No. 117 001 Part No. 117 003 Part No. 117 005 Part No. 117 007 Part No. 117 009 Part No. 117 011 Part No. 117 017 Part No. 117 019	Part No. 117 002 Part No. 117 004 Part No. 117 006 Part No. 117 008 Part No. 117 010 Part No. 117 012 Part No. 117 018 Part No. 117 020
ScrewLine SP630 F water cooled, with adaptor for RUVAC 2001, SP Guard and electromagnetic gas ballast with SP Guard and manual gas ballast	Part No. 117 105 Part No. 117 107	Part No. 117 106 Part No. 117 108
Exhaust silencer	Part No. 119 001	Part No. 119 001
Roots pump adapter for RUVAC 2001	Part No. 119 021	Part No. 119 021
Dust filter ¹⁾ Elbow 90° (DN 100 ISO-K) Clamping screws for DN ISO-K Centering ring for DN ISO-K	Part No. 951 72 Part No. 887 26 Part No. 267 01 Part No. 268 06	Part No. 951 72 Part No. 887 26 Part No. 267 01 Part No. 268 06
Flushing kit SP 630 with tap water connection with purging vessel	Part No. 500 003 063 ²⁾ Part No. 500 003 068 ²⁾	Part No. 500 003 063 ²⁾ Part No. 500 003 068 ²⁾
Flushing kit SP 630 and fitted RUVAC with tap water connection with purging vessel	Part No. 500 003 074 Part No. 500 003 075	Part No. 500 003 074 Part No. 500 003 075
Intermediate piece DN ISO-K	Part No. 119 020	Part No. 119 020
Gas ballast, manual (DN ISO-K)	Part No. 119 051	Part No. 119 051
Gas ballast, 24 V DC (DN 16 KF)	Part No. 119 052	Part No. 119 052
SP Guard kit, complete ³⁾	Part No. EK 110 000 809	Part No. EK 110 000 809
Non-return valve (DN 100 PN 6)	Part No. 119 010	Part No. 119 010
Purge gas retrofit kit	Part No. 119 030 ⁴⁾	Part No. 119 030 ⁴⁾

¹⁾ For information on the dust filter please refer to the Product Section C02, Section "Accessories"

²⁾ Both part numbers can also be used in the case of pump systems with a frame (pump system)

³⁾ Can currently only be installed through a Leybold service

⁴⁾ available in July 2005

SP Guard



The monitoring system SP Guard was specially developed for constantly monitoring the operational status of the screw vacuum pump ScrewLine SP 630.

The operational parameters are constantly collected and evaluated.

In this way a high degree of reliability is attained.

Technical Data	SP Guard
Power supply through power supply unit V DC	24
Current consumption A	0.2
Ordering Information	SP-Guard
SP Guard kit, complete ¹⁾	Part No. EK 110 000 809
Supply 24 V DC, 230/120 V AC, 50/60Hz for SP-Guard	Part No. 152 50

Vacuum Pump Oils

Lubricating oils for vacuum pumps must meet tough requirements. They need to have excellent lubricating properties and resist cracking when subjected to mechanical loads.

The vacuum pump oil ANDEROL[®] 555 detailed below was qualified for usage in the ScrewLine line of pumps through a comprehensive series of experiments under application conditions in our own factory laboratories.

For these reasons please understand that we must make our warranty commitment dependent on the use of oils which have been qualified by us. Damages caused by the use of not suitably qualified lubricating oils are not covered by our warranty.

Safety data sheets are available upon request for professional users from:
 Email „safety-data@leyboldvac.de“ or from the Internet
 „www.leybold.com/safety-data“.

Application Data	ANDEROL [®] 555
Type of oil	Diester oil
Ordering Information	Maintenance Kit for changing the Gear Oil
Maintenance kit stage 1 SP250 for changing the gear oil 7 l ANDEROL [®] 555, oil filter cartridge and gaskets	Part No. EK 110 000 820
SP630 for changing the gear oil 15 l ANDEROL [®] 555, oil filter cartridge and gaskets	Part No. EK 110 000 792

ANDEROL[®] is a trademark of ANDEROL BV

¹⁾ Can currently only be installed through a Leybold service

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