



OIL-SEALED ROTARY PISTON PUMPS/COMBINATIONS

Atlas Copco

GLS 250-500 Series and Combinations



With over 10,000 units sold in 80 years, the Atlas Copco GLS rotary piston pump sets the standard for performance and reliability as the industry's most efficient, space-saving design. As part of the Atlas Copco group, Stokes Vacuum continues to innovate oil-lubricated rotary piston pumps. The GLS has been improved, upgraded and fine-tuned. It delivers even better dependability and productivity combined with minimal maintenance and process downtime, especially crucial in demanding applications such as the automotive or aerospace industry and their supply chains.

FEATURES AND BENEFITS

- Robust cast and ductile iron construction provides rugged reliable operation.
- Efficient design provides maximum uptime with minimal moving parts and large clearance.
- Low ultimate blank-off with pressures down to < 10⁻²Torr.
- New valve design virtually eliminates valve maintenance and noise.
- Space saving design which saves up to 50% of valuable floor space.
- Complete and self-contained unit delivered ready to install.
- Automatic lubrication system provides proper flow of oil to bearings and sealing surfaces and prevents back flow into system.
- Controlled balancing reduces vibration to a practical minimum.
- Gas ballast as standard.
- Total capability includes the manufacturing and service capabilities to keep your equipment in top operation with a broad range of vacuum system accessories.

APPLICATIONS

- Automotive
- Chemical processing
- General applications
- Heat treatment
- Leak detection
- Metallurgy
- PET processing
- Pharmaceuticals
- Transformer drying and cable fluid conditioning
- Vacuum coating
- Vacuum melting

TECHNOLOGY



Low lifecycle cost

Thanks to the slow rotational speed, reliability is optimum and lifecycle cost is low.

State-of-the-art control

Lubrication of the internal components of the pumps is completely automatic. This pump is fitted with a 230/460 V coil for control of the oil solenoid valve which prevents the pump from flooding with oil in the case of power failure or a loss of vacuum.



Reduced maintenance

All GLS pumps are fitted with a water mizer to minimize the water consumption and optimize the running temperature. This brings extra reliability, extended times between maintenance and a very low lifecycle cost.

Reliable system protection

To allow pumping of high vapor loads, an integral gas ballast is fitted. This is used to prevent condensation of the vapor carried by the pump gases.



TECHNICAL SPECIFICATIONS

GLS SERIES AND COMBINATIONS (50/60 HZ)

Pump type	Pumping speed		Ultimate pressure		Motor power		Overall dimensions			Noise level
	m ³ h ⁻¹	ft ³ min ⁻¹	Gas ballast closed		50 Hz	60 Hz	D	W	H	50/60 Hz
			mbar	Torr	kW	Hp	mm	mm	mm	dB(A)
GLS 250	234*	138*	<3.3 x 10 ⁻²	<2.5 x 10 ⁻²	5.5	7.5	665	581	1195	77
GLS 500	442*	260*	<3.3 x 10 ⁻²	<2.5 x 10 ⁻²	11	15	1032	651	1380	83
GLS 250/ZRS 500	500	294	<3.3 x 10 ⁻³	<2.5 x 10 ⁻³	7.5	10	1020	1065	1245	78
GLS 250/ZRS 1200	1200	706	<3.3 x 10 ⁻³	<2.5 x 10 ⁻³	9.5	12	1140	1175	1245	78
GLS 500/ZRS 1200	1200	706	<3.3 x 10 ⁻³	<2.5 x 10 ⁻³	15	20	1245	1250	1427	84
GLS 500/ZRS 2600	2600	1530	<3.3 x 10 ⁻³	<2.5 x 10 ⁻³	18.5	25	1315	1530	1427	84

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