

STOKES PS & PD SERIES

Single stage and double stage
rotary piston pumps

STOKES[®]
VACUUM

For over 100 years, Stokes vacuum pumps have offered time-tested, proven performance with experienced service and technical support you can rely on. Stokes vacuum pumps are highly reliable workhorses for various industrial applications.

A proven and robust pump suitable for a broad range of industrial processes

Rotary piston pumps are proven technology for over a century and have consistently delivered robust and reliable operations with maximum uptime. For demanding industrial applications, the Stokes PS & PD series products are a trusted choice.

The Stokes PS & PD series of rotary piston pumps offer a low initial investment and minimal operating costs, making them an economical choice. These pumps are designed to deliver consistent performance, even in demanding conditions, and are favored for their durability and efficiency in environments requiring vacuum generation.

Stokes PS series - Single stage



P600S

Stokes PD series - Double stage



PD1100D

Innovative and robust pump design



Controlled balancing reduces vibration with 3-cylinder design



Automatic lubrication system for efficient oil flow



No backflow into system



Grease lubricated bearing instead of pump oil for maximum uptime



Gas ballast as standard



Complete and self-contained unit delivered ready to install



Suitable for demanding industries

These pumps cater to a diverse array of industries, including heat treatment, metallurgy, automotive, PET processing, pharmaceuticals, and general industrial uses.



Application engineering and systemization

While the Stokes PS & PD series are available as a complete and self-contained unit delivered ready to install, we also offer a choice of pumping combinations available to provide a wide range of vacuum pumping solutions.



Maximum uptime

The bearing is lubricated by grease instead of pump oil to provide maximum uptime.



Enhanced design

Robust and efficient design, which features minimal moving parts. The Stokes PS & PD series products have been enhanced with three cylinders, ensuring smooth operation with low vibration and noise.



Ease of service

The simple mechanism can be easily serviced and maintained on-site. The robust design includes fewer parts that are easily interchangeable, keeping your maintenance and parts costs low. Total service capability keeps your equipment in top operating conditions.



Easy to fit accessories available

You can choose from a wide range of accessories, including inlet filters, oil mist separators, water miser, EM gas ballast, external oil purifiers, providing versatility for numerous applications.

Technical Specifications

	Units	Stokes PS series			Stokes PD series		
		P300S	P600S	P1100S	P330D	P630D	P1100D
Ultimate pressure w/o GB	mbar	0.03	0.03	0.03	0.01	0.01	0.01
Displacement	m ³ /h	288	580	1080	324	576	1080
Pump speed	rpm	652	616	555	588	615	500
Back pressure	bar(a)	1.2	1.2	1.2	1.2	1.2	1.2
Pump inlet ASME B16.5	inch	3	4	6	3	4	8
Pump exhaust ASME B16.5	inch	2.5	3	4	2.5	3	5
Noise level at 1 meter	dB(A)	77	83	85	77	83	85
Vibration severity	mm/sec (RMS)	7	7	7	7	7	7
Pipe connections (Water inlet)	inch	G 1/2 female	G 3/4 female	G 1 female	G 1/2 female	G 3/4 female	G 1 female
Pipe connections (Water outlet)	inch	G 1/2 female	G 3/4 female	G 1 female	G 1/2 female	G 3/4 female	G 1 female
Recommended oil (Normal operation)		V-lube F	V-lube F	V-lube F	V-lube F	V-lube F	V-lube F
Oil capacity	litre	20	40	60	30	46	100
Weight (Net)	kg	550	850	1300	650	950	2000
Weight (Shipping)	kg	605	935	1430	715	1045	2200
Dimensions (L x W x H)	mm	660×600×1050	795×680×1330	1000×795×1485	748×645×1135	936×711×1284	1128×975×1584
Cooling water throughput (maximum)	lpm	5	10	20	6.7	13.3	30
Cooling water delta P	bar	2.5	2.5	2.5	2.5	2.5	2.5
Inlet cooling water temperature	°C	15-30	15-30	15-30	15-30	15-30	15-30
Motor power	kW	5.5	11	22	7.5	15	30

Ordering Information

Stokes PS series

Part number	Description
A91193500	Stokes P300S Δ220-240V/Y380-415V 50Hz
A91193100	Stokes P300S Δ220V/Y380V 60Hz
A91293500	Stokes P600S Δ220-240V/Y380-415V 50Hz
A91293100	Stokes P600S Δ220V/Y380V 60Hz
A91393500	Stokes P1100S Δ220-240V/Y380-415V 50Hz
A91393100	Stokes P1100S Δ220V/Y380V 60Hz

Stokes PD series

Part number	Description
A92193500	Stokes P330D Δ220-240V/Y380-415V 50Hz
A92193100	Stokes P330D Δ220V/Y380V 60Hz
A92293500	Stokes P630D Δ220-240V/Y380-415V 50Hz
A92293100	Stokes P630D Δ220V/Y380V 60Hz
A92393500	Stokes P1100D Δ220-240V/Y380-415V 50Hz
A92393100	Stokes P1100D Δ220V/Y380V 60Hz

Service solutions

We offer a full complement of vacuum pump services, including commissioning, genuine spare parts and oil, remanufacturing, service exchange, field services, and managed maintenance.

