

SPS 500

SPS process pump

Features and benefits

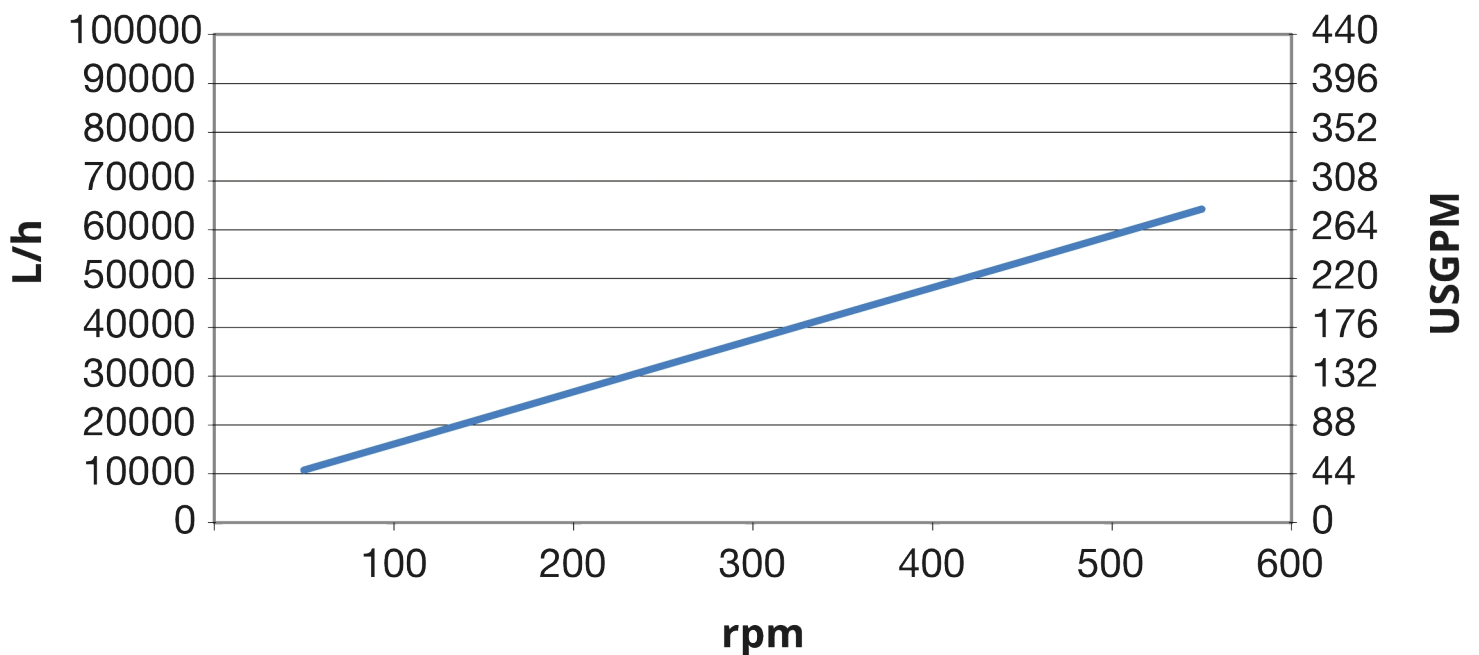
- Low shear transfer pump, with flow up to 69120 L/h at pressures up to 15 bar
- Superior viscous handling
- Consistent flow with high suction capability up to 0.85 bar
- Flexible configuration of housing, nozzle type, size orientation, drive and baseplate
- Hygienic CIP and SIP capability
- FDA and EC 1935/2004 compliance
- Operating temperatures up to 180 °C
- 20-year guarantee on front cover and pump housing



SPS 500 performance

Performance curves

These performance curves show the theoretical flow without consideration of slip



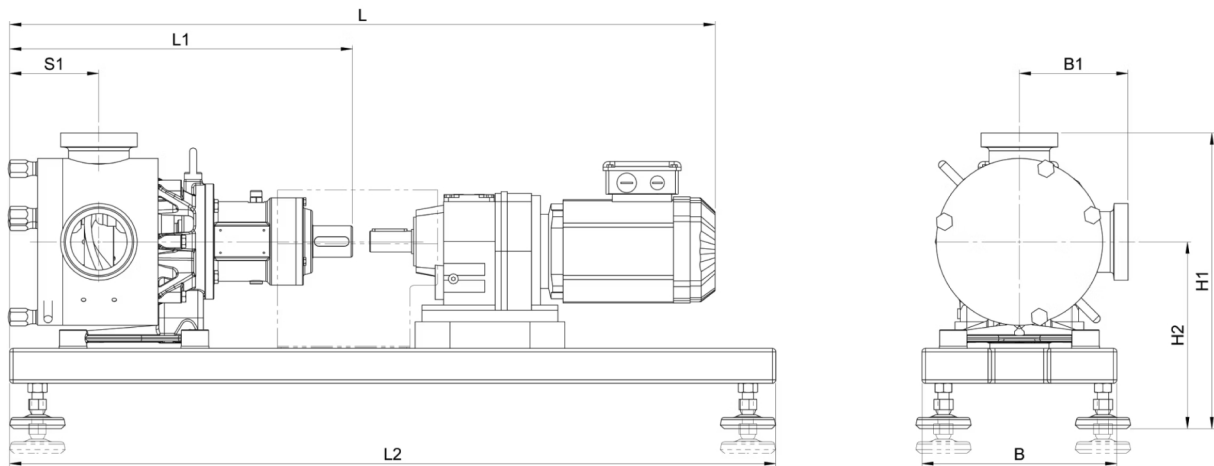
Technical specifications

	SPS 500
Volume per revolution	1.92 L (0.505 USG)
Max. particle size	50 mm (1.97 in)
Suction pressure	85% of a vacuum
Max. operating pressure	15 bar (217 psi)
Operating temperature	-20 °C to 180 °C (-4 °F to 356 °F)
Standards	ATEX
Certification and compliance	EC 1935/2004, FDA
Port orientation	Various options to meet your requirements
Port type	Flange, Milk fitting, RJT, SMS, TC
Shaft diameter	50 mm (1.97 inch)
Shaft height	235 mm (9.25 inch)

Materials of construction

	SPS 500
Housing	Stainless steel 1.4404, Stainless steel 316L
Bearing frame	Stainless steel 1.4301, Stainless steel 304
Rotor	Stainless steel 1.4404, Stainless steel 316L
Gate and liners	Polyamide
Seals/gaskets	EPDM, FFKM, FKM, NBR, PTFE

SPS 500 dimensions



Model	L				L1		L2		S1		B		B1				H1				H2			
	min.		max.										min.		max.		min.		max.		min.		max.	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
SPS 500	1300	51.2	1640	64.6	659	25.9	1300	51.2	131	5.16	380	15	212	8.35	235	9.25	560	22	623	24.5	348	13.7	388	15.3

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads.
Disclaimer: The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains and reserves the right to alter specifications without notice. Watson-Marlow, MasoSine, Qdos, ReNu, LoadSure, Bioprene, Pumpsil and Marprene are trademarks of Watson-Marlow Limited. STA-PURE PFL® and STA-PURE PCS® are registered trademarks of W.L Gore & Associates Inc. Please state the product code when ordering pumps and tubing.



wmfts.com/global
27 May 2026