

SPS 100

SPS process pump

Features and benefits

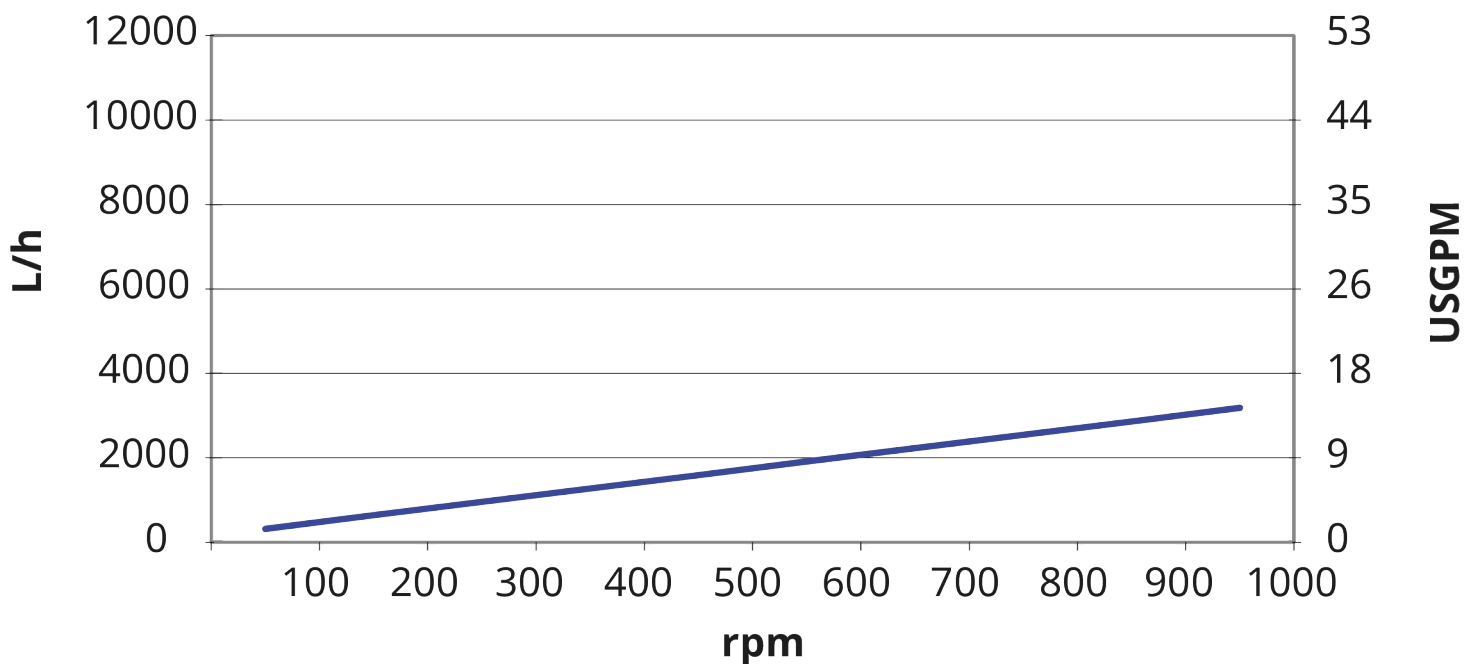
- Low shear transfer pump, with flow up to 4800 L/h at pressures up to 10 bar
- Superior viscous handling
- Consistent flow with high suction capability up to 0.85 bar
- Flexible configuration of housing, nozzle type, size orientation, drive and baseplate
- Hygienic CIP and SIP capability
- FDA and EC 1935/2004 compliance
- Operating temperatures up to 180 °C
- 20-year guarantee on front cover and pump housing



SPS 100 performance

Performance curves

These performance curves show the theoretical flow without consideration of slip



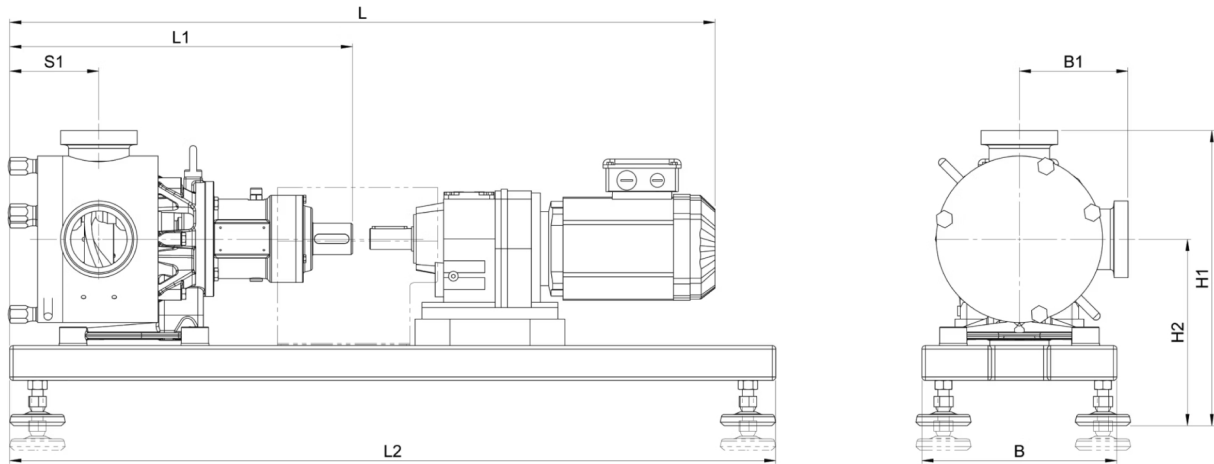
Technical specifications

	SPS 100
Volume per revolution	0.08 L (0.021 USG)
Max. particle size	10 mm (0.39 in)
Suction pressure	85% of a vacuum
Max. operating pressure	10 bar (145 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	18 mm (0.71 inch)
Shaft height	72 mm (2.83 inch)

Materials of construction

	SPS 100
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	PEEK, Polyamide, UHMW
Liner	Polyamide
Seals/gaskets	EPDM, FFKM, FKM, NBR, PTFE

SPS 100 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 100	735	28.9	860	33.9	292	11.5	800	31.5	89	3.5	210	8.3	97	3.8	121	4.8	300	11.8	330	13.0	202	8.0	232	9.1

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
22 September 2026