100 DriveSure ADC/En/Pn

100 series panel mount pumps

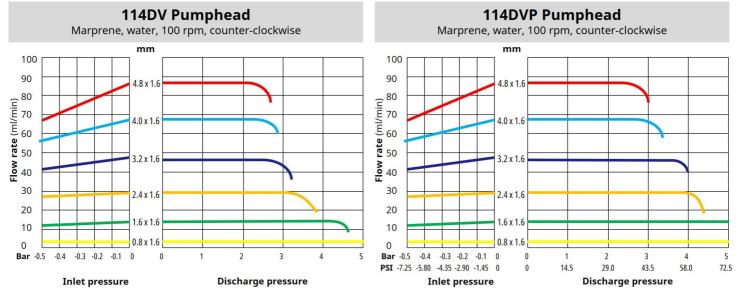
Key Features

- DriveSure panel mount pump for 114DV and 114DVP pumpheads
- 0.1 rpm to 410 rpm speed range at 0.1 rpm increments
- Watson-Marlow closed-loop control technology delivers consistent, cool and quiet performance
- EtherNet/IP[™] and PROFINET[®] versions for digital network integration, control and monitoring
- ADC version with 4–20 mA, 0–10 V, 2–2000 Hz and fixed speed control options
- Sealed mounting plate for easy installation and IP66 capability
- Integrated cover-open sensor and prime-switch input
- Downloadable PC software (WM Connect) to evaluate, optimise and diagnose via USB connection

100 DriveSure ADC/En/Pn performance

Flow Rate (mL/min) b	ate (mL/min) by tube bore based on 0.1 rpm (Min) to 410 rpm (Max)													
Dummhood	0.5 mm		0.8 mm		1.6 mm		2.4 mm		3.2 mm		4.0 mm		4.8 mm	
Pumphead	Min	Мах	Min	Мах	Min	Мах	Min	Мах	Min	Мах	Min	Max	Min Max	Max
114DV	0.002	9.3	0.004	17.4	0.014	57.4	0.029	118	0.048	195	0.068	276.8	0.085	349
114DVP	0.002	9.3	0.004	17.4	0.014	57.4	0.029	118	0.048	195	0.068	276.8	0.085	349

Performance data is based on a 48 V DC power supply, pumping water, with 0 bar inlet and discharge pressure. Actual performance is dependent on power supply voltage (DriveSure range 12 V to 48 V DC). For further information contact your local Watson-Marlow representative.







Technical specifications

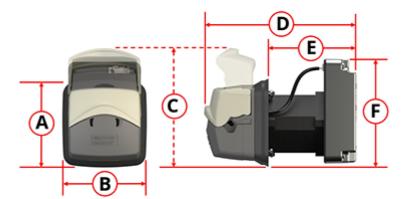
	100 DriveSure ADC/En/Pn						
Motor types	NEMA 17 stepper motor						
Pumphead options	114DV, 114DVP						
Number of rollers	4						
Number of channels	1						
Min. flow rate	0.002 ml/min						
Max. flow rate	349 ml/min						
Min. operating speed	0.1 rpm						
Max. operating speed	410 rpm						
Speed Resolution	0.1 rpm						
Supply voltage	12 V to 48 V DC						
Operating temperature range	5 °C to 40 °C						
Operating temperature range	41 °F to 104 °F						
Rated Power	75 W						
Control options	0–10 V, 2–2000 Hz, 4–20 mA, EtherNet/IP™, Fixed speed, Prime speed, PROFINET®						
Alarms	Cover-open, Hardware fault, Over current, Over temperature, Software fault, Speed, Stall, Under/over voltage						
Outputs	Fault, Tacho						
External Inputs	Prime switch						
Weight	0.8 - 0.9 kg						
Weight	1.764 - 1.984 lbs						
Location	Indoor, Enclosure						
Ingress Protection	IP66 capable panel sealing						
Humidity	80 % up to 31 °C (88 °F), decreasing linearly to 50 % at 40 °C (104 °F)						
Noise	<60 dB(A)						
Max. altitude	2000 m						
Max. altitude	6561 ft						
Standards	BS EN 55011-2016+A2-2021, BS EN IEC 61326-1-2021, CSA C22.2 No. 61010-1-12/AMD1:2018, EN 61010- 1:2010/A1:2019, FCC 47CFR (Part 15), IEC 61010-1:2010/AMD1:2016, UL 61010-1:2012/R:2019-07						
Certification	CB Certificate, EMC, NRTL certification						
Compatible tubing bore size	0.5, 0.8, 1.6, 2.4, 3.2, 4, 4.8 mm						
Compatible tubing wall thickness	1.6 mm						

Outputs are for ADC version only. Alarms are for EtherNet/IP[™] & PROFINET® versions only. For detailed specifications of individual models refer to product reference manual or contact WMFTS representative.

Materials of construction

	100 DriveSure ADC/En/Pn					
Pumphead body assembly	Grilamid PA12, Polyacrylamide—IXEF (PARA)					
Pumphead rotor assembly	FPM rubber, Polyacrylamide—IXEF (PARA), PTFE filled PBT, Stainless steel					
Motor	Aluminium, Plasma nitride coated stainless steel					
Controller Housing	ABS/PC, Aluminium					
Mounting plate assembly	Nitrile, Polyacrylamide (PARA)-halogen free, UL94 V-0 rated, Thermoplastic elastomer (TPE)					

Information listed covers the complete range. For detailed specifications of individual models/components refer to product reference manual or contact WMFTS representative.



A B			С		D		E		F		
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
73	2.87	74	2.91	98	3.85	128	5.04	73	2.87	89	3.50

Product codes

	G 1 0 0 0
ABCD	Ê Ê

A B		C D		E	F	
Product	Control	Cable length	Pumphead colour	Pumphead	Pressure	
0 = Complete pump	4 = ADC	1 = 1 m (3.28 ft) cable	0 = No pumphead	0 = No pumphead	0 = No pumphead	
6 = Drive only	8 = En (EtherNet/IP™)	3 = 3 m (9.84 ft) cable	1 = Standard colour	A = 114DV	S = Standard pressure	
	9 = Pn (PROFINET®)		2 = Black		P = Plus pressure	
			3 = White			
Accessories and Spar	es					
Product	Pro	Product code				
100 Series DriveSure Seale	019	019.IPMP.DVS				
DriveSure cable pack - 24	009	009.24CP.DVS				
DriveSure cable pack - 48	009	009.48CP.DVS				
1 m Power Cable DriveSur	009	009.1PW.DVS				
3 m Power Cable DriveSur	e ADC/En/Pn			009	009.3PW.DVS	
1 m Control Cable DriveSu	009	009.1CC.DVS				
3 m Control Cable DriveSu	009	009.3CC.DVS				
Ethernet Cable, RJ45 to RJ4	059	059.9123.000				
PROFINET [®] Cable, RJ45 to I	059	059.9128.000				

*Cable packs do not include mains power lead. If required, order power leads suitable for your region.

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. Watson-Marlow, Pumpsil, PureWeld XL, Bioprene and Marprene are trademarks of Watson-Marlow Limited. 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. GORE and STA-PURE are trademarks of W. L. Gore & Associates. Please state the product code when ordering pumps and tubing.

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