701DFB with REA (ATEX)



pumphead

700 series close-coupled pumps

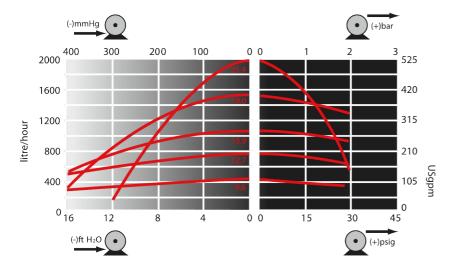
Features and benefits

- Flow rates up to 1,900L/h (8.4GPM) and up to 2 bar (30psi) peak pressure
- A choice of fixed speeds: 45 rpm, 134 rpm, 232 rpm and 348 rpm. Other speeds on request
- LoadSure tubing elements in four sizes and five materials, with industrial cam-andgroove connectors or sanitary Tri-clamp-style connectors
- Rugged, chemical and knock-resistant finish; tool-unlockable track
- Driven occlusion rollers for longer tube life



701DFB with REA (ATEX) pumphead performance

Typical flow rates per pumphead (L/h)								
	701RA continuous tubing 7				701REA LoadSure elements			
Fixed speeds	9.6mm	12.7mm	15.9mm	19.0mm	25.4mm	12.7mm	15.9mm	19.0mm
112rpm	130	240	340	470	620	240	340	470
360rpm	420	780	1100	1500	2000	780	1100	1500



Flow rates by tube bore sizes for various pressure conditions.

For critical applications determine flow under operating conditions. Flow can vary due to tube tolerances and system configuration

Flow rates per pumphead at 360rpm, clockwise, water 20C

Technical specifications

	701DFB with REA (ATEX) pumphead			
Max. flow rate	2000 L/h			
Min. flow rate	130 L/h			
Ambient Temperature Range	5 to 40 °C			
Ambient Temperature Range	41 to 104 °F			
Motor types	Fixed speed motor			
Max. operating speed	360 rpm			
Standards	ATEX 2014/34/EU, ATEX II 2G Ex h IIB T4 Gb X, CE			
Ingress rating	IP55			
Noise	<85dB(A) at 1m			
Weight	41 kg			
Power supply	230/400 V 3 ph, 50 Hz			

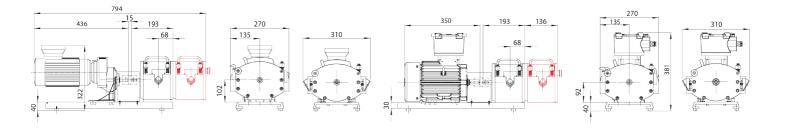
Table lists details for fixed speed pumps. For more detail on drive, AC motor and inverter options please contact your local Watson-Marlow Fluid Technology Solutions representative.

Materials of construction

	701DFB with REA (ATEX) pumphead			
Gearbox	Aluminium, Cast iron			
Motor	Cast iron			
Pumphead body assembly	Aluminium alloy with epoxy polyester powder coat finish			
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron), Polyamide			
Pumphead rotor assembly	Aluminium alloy LM24, Stainless steel			
Pumphead track	Aluminium alloy with epoxy polyester powder coat finish			
Fixings	Stainless steel			
Tube clamp assembly	Glass filled Nylon			

Information listed covers the complete range of fixed speed pumps. For detailed specifications of individual models/components and other drive/pumphead options, refer to user manual or contact WMFTS representative.

701DFB with REA (ATEX) pumphead dimensions



Measurements shown in millimetres (mm)

Dual pumphead versions

Product codes

Pump		Supply	Product code	
701 DED/DEA (Single numericad)	112	230/400V 50Hz 3ph 0.37kW *10:1	070.1012.E00	
701DFB/REA (Single pumphead)	360	230/400V 50Hz 3ph 1.1kW *10:1	070.1032.E00	

*10:1 speed reduction available using VFD. Geared units fitted with PTC thermistors

Pumphead	Descrip	scription					Product code		
701RBEA	Four rolle	Four roller LoadSure element ATEX pumphead					073.0104.A00		
4.8mm wall tubir	ng								
Bore/wall (mm)		Bioprene	N	larprene	Pumps	il	PureWeld XL		
9.6/4.8		933.0096.048	9	02.0096.048	913.A096	5.048	942.0096.048		
12.7/4.8		933.0127.048	9	02.0127.048	913.A12	7.048	942.0127.048		
15.9/4.8		933.0159.048	9	02.0159.048	913.A159	9.048			
19.0/4.8		933.0190.048	9	02.0190.048	913.A190	0.048	942.0190.048		
25.4/4.8		933.0254.048	9	02.0254.048			942.0254.048		
Bore/wall (mm)		STA-PURE PCS	S	TA-PURE PFL					
9.6/4.8		961.0096.048	9	66.0096.048					
12.7/4.8		961.0127.048	9	66.0127.048					
15.9/4.8		961.0159.048	9	66.0159.048					
19.0/4.8		961.0190.048	9	66.0190.048					
LoadSure elemer	its								
Bore/wall (mm)	n) 12.7 x 4.8mm C&G with PP 3/4" connectors		15.9 x	15.9 x 4.8mm C&G with PP 3/4" connectors			19.0 x 4.8mm C&G with PP 3/4" connectors		
Marprene	902.0127.PPC		902.015	902.0159.PPC			902.0190.PPC		

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. 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. 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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