621DF with 620RA (ATEX) pumphead



600 series close-coupled pumps

Features and benefits

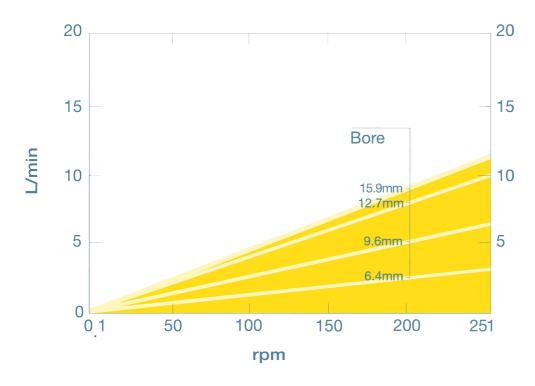
- Simplex flow rates up to 15 L/min
- Discharge pressures up to 2 bar with continuous tubing
- 620RA two roller pumphead with CIP/SIP rotor
- Compact design with foot mounted gearbox
- 24-hour continuous duty with a two-year warranty
- Reversible operation
- Fixed Speed options: 230/460 VAC, 50/60 Hz 3-phase. Inverters available for use outside the ATEX zone. Mechanical ball variator versions available for variable speed within the ATEX zone



621DF with 620RA (ATEX) pumphead performance

ube bore and flow rates (L/min) Elements									
		620RA continuous tubing			620REA Loadsure		620RE4A Loadsure		
Material	rpm	6.4mm	9.6mm	12.7mm	15.9mm	12.0mm	17.0mm	12.0mm	17.0mm
Marprene, Bioprene TM	79/245					2.9-9.1	4.7-14	2.5-7.7	3.3-10
Marprene, Bioprene TL	79/245	1.0-3.2	2.0-6.1	3.2-9.8	4.3-11	2.9-9.1	5.3-16	2.5-7.7	3.7-12
Pumpsil, Neoprene, STA-PURE PCS	79/245	0.95-2.9	2.1-6.6	3.3-10	4.9-14	3.1-9.5	4.8-15	2.6-8.1	3.4-10
STA-PURE PFL	79/245	0.95-2.9	2.0-6.1	3.2-9.8	4.8-15	3.1-9.8	5.7-18	2.7-8.3	4.0-12

620RA performance graph



Technical specifications

	621DF with 620RA (ATEX) pumphead				
Max. flow rate	15 L/min				
Min. flow rate	0.95 L/min				
Max. operating pressure	2 bar				
Max. operating pressure	30 psi				
Ambient Temperature Range	5 to 40				
Ambient Temperature Range	41 to 104				
Motor types	Fixed speed motor				
Max. operating speed	245 rpm				
Standards	ATEX 2014/34/EU, CE, EX II 2G Exh IIB T4 G6 X				
Ingress rating	IP55				
Noise	<70dB(A) at 1m				
Weight	26 kg				
Weight	57 lbs				
Power supply	230/400V 3ph, 50Hz				

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.

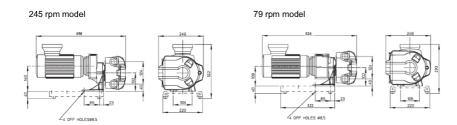
Materials of construction

	621DF with 620RA (ATEX) pumphead					
Gearbox	Aluminum, Cast iron					
Motor	Cast iron					
Pumphead guard	Pressure die-cast aluminum LM24					
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron), Stainless steel 303S31					
Pumphead rotor assembly	PPS/10% stainless steel strands					
Pumphead track	Aluminum alloy with epoxy polyester powder coat finish					
Seals	Neoprene					
Tube clamp assembly	PP (polypropylene)					

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.

621DF with 620RA (ATEX) pumphead dimensions



Product codes

Pump	rpm	Supply	Product code
621DF/RA ATEX fixed speed PTC's	79	230/400V 50Hz 3ph 0.37kW	060.8622.020 - *10:1
62 TDF/RA ATEX TIXEU Speed PTC S	245	230/400V 50Hz 3ph 0.37kW	060.8652.020 - *10:1

^{*10:1} or 5:1 speed reduction available using VFD

^{*}ATEX pumps 10:1 speed reduction available using VFD from geared units fitted with PTC thermistors For alternative speeds and motor options contact Watson-Marlow Applications Engineering Department.

Pumphead	Description		Product code						
620RA (ATEX)	Two roller continuous tubing pumphead for maximum 2bar peak pressure							064.0211.A00	
Tubing									
Bore/wall (mm) Bioprene			Marprene		Platinum Silicone		PureWeld XL		
6.4x3.2	933.0064.032			902.0064.032		064.032			
9.6x3.2		933.0096.032		902.0096.032 913.4		3.A096.032		941.0096.032	
12.7x3.2		933.0127.032		902.0127.032 913.		3.A127.032		941.0127.032	
15.9x3.2	933.0159.032			902.0159.032 913.		13.A159.032			
Bore/wall (mm) Neoprene		Neoprene		STA-PURE S		PURE PFL			
6.4x3.2	4x3.2 920.0064.032			960.0064.032	965.0	965.0064.032			
9.6x3.2	920.0096.032			960.0096.032	965.0	965.0096.032			
12.7x3.2	x3.2 920.0127.032			960.0127.032	965.0	965.0127.032			
5.9x3.2 920.0159.032			960.0159.032 965.0		5.0159.032				
Loadsure Elements	•								
Na t - l	12mm Tri-Clar	np 3/4" PVDF	17m	m Tri-Clamp 3/4" PVDF		12mm C&G with PP 3/4"	12mm	C&G with PP 3/4"	
Material	connectors	connectors		nectors		connectors		onnectors	
Bioprene TL 0-2 bar (peak)	933.0120.PFT		933.0	170.PFT					
Bioprene TM 0-4 bar (peak)	933.M120.PFT		933.N	1170.PFT					
STA-PURE PCS 0-4 bar (peak)	960.0120.PFT 9		960.0	170.PFT					
Pumpsil (0-2 bar peak)	913.A120.PFT 913		913.A	3.A170.PFT					
Marprene TL 0-2 bar (peak)						902.0120.PPC	902.017	0.PPC	
Marprene TM 0-4 bar (peak)						902.P120.PPC	902.P17	0.PPC	
Pumpsil 0-2 bar (peak)						913.A120.PPC	913.A17	0.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.

920.0120.PPC

920.0170.PPC

wmfts.com/global

Neoprene 0-2 bar (peak)



14 August 2023