# 621DF with 620RA (ATEX)

## pumphead

600 series close-coupled pumps

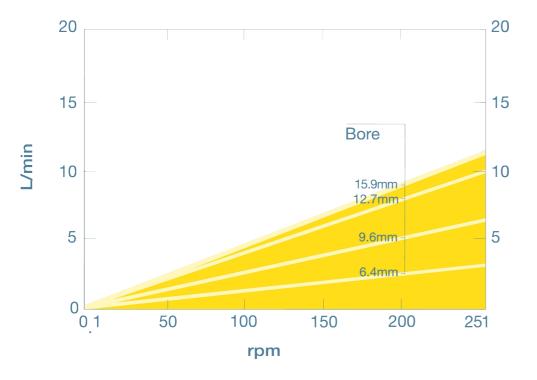
#### Features and benefits

- 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: 230/400 VAC, 50 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

Tube 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









### **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 °C			
Ambient Temperature Range	41 to 104 °F			
Motor types	Fixed speed motor			
Max. operating speed	245 rpm			
Standards	ATEX 2014/34/EU, ATEX II 2G Ex h IIB T4 Gb X, CE			
Ingress rating	IP55			
Noise	<70dB(A) at 1m			
Weight	26 kg			
Weight	57 lbs			
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**

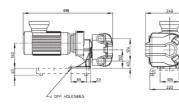
	621DF with 620RA (ATEX) pumphead				
Gearbox	Aluminium, Cast iron				
Motor	Cast iron				
Pumphead guard	Pressure die-cast aluminium LM24				
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron), Stainless steel 303S31				
Pumphead rotor assembly	PPS/10% stainless steel strands				
Pumphead track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

Information listed covers the complete range of fixed speed pumps.

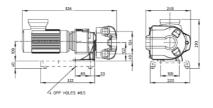
For detailed specifications of individual models/components and other drive/pumphead options, refer to user manual or contact WMFTS representative.

#### 621DF with 620RA (ATEX) pumphead dimensions

245 rpm model



79 rpm model



#### **Product codes**

Pump	rpm	Supply	Product code
COLDE /DA ATEX fixed speed DTC/s	79	230/400V 50Hz 3ph 0.37kW	060.8622.020 - *10:1
621DF/RA ATEX fixed 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	Description						
620RA (ATEX)	Two roller conti	continuous tubing pumphead for maximum 2bar peak pressure						
Tubing								
Bore/wall (mm) Bioprene		Marprene	Platinum Silicone	PureWeld XL				
6.4x3.2		933.0064.032	902.0064.032	913.A064.032				
9.6x3.2		933.0096.032	902.0096.032	913.A096.032	942.0096.032			
12.7x3.2		933.0127.032	902.0127.032	913.A127.032	942.0127.032			
15.9x3.2		933.0159.032	902.0159.032	913.A159.032				
Bore/wall (mm)		STA-PURE	STA-PURE PFL					
6.4x3.2		961.0064.032	966.0064.032					
9.6x3.2		961.0096.032	966.0096.032					
12.7x3.2		961.0127.032	966.0127.032					
5.9x3.2 961.0159.032		966.0159.032						
Loadsure Elemen	nts							
Material	12mm Tri-Cl	amp 3/4" PVDF	17mm Tri-Clamp 3/4" PVDF	12mm C&G with PP 3/4"	12mm C&G with PP 3/4"			
Material	connectors		connectors	connectors	connectors			
Bioprene TL 0-2 bar (peak)	933.0120.PFT		933.0170.PFT					
Bioprene TM 0-4 bar (peak)	933.M120.PFT		933.M170.PFT					
STA-PURE PCS 0-4 ba (peak)	<sup>ar</sup> 961.0120.PFT		961.0170.PFT					
Pumpsil (0-2 bar pea	k) 913.A120.PFT		913.A170.PFT					
Marprene TL 0-2 bar (peak)				902.0120.PPC	902.0170.PPC			
Marprene TM 0-4 baı (peak)	r			902.P120.PPC	902.P170.PPC			
Pumpsil 0-2 bar (pea	k)			913.A120.PPC	913.A170.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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