# 621DF with 620RE4A (ATEX) pumphead



600 series close-coupled pumps

### **Features and benefits**

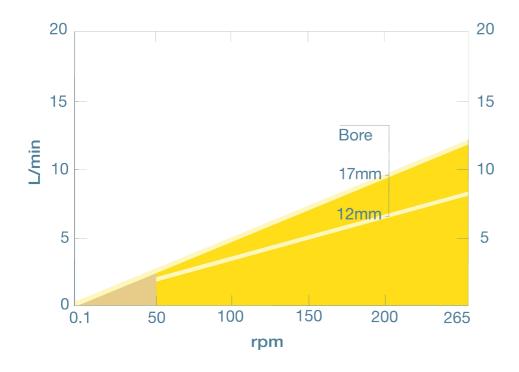
- Simplex flow rates up to 12 L/min
- Discharge pressures up to 4 bar with element style pumpheads
- 620REA two roller or 620RE4A four roller pumphead with CIP/SIP rotor and rapid snap-fit tube loading, pumphead accepts both 12 mm and 17 mm industrial and sanitary LoadSure elements
- Compact design with foot mounted gearbox
- 24-hour continuous duty with a two-year warranty
- Reversible operation
- Fixed Speed options: 230/460 VAC, 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 620RE4A (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

### 620RE4A performance graph



# **Technical specifications**

	621DF with 620RE4A (ATEX) pumphead
Max. flow rate	12 L/min
Min. flow rate	2.5 L/min
Max. operating pressure	4 bar
Max. operating pressure	60 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.

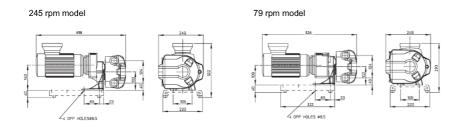
# **Materials of construction**

	621DF with 620RE4A (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 620RE4A (ATEX) pumphead dimensions



## **Product codes**

Pump	rpm	Supply	Product code
621DF/RE4A ATEX fixed speed PTC's	79	230/400V 50Hz 3ph 0.37kW	060.8622.E40 - *10:1
62 TDF/RE4A ATEX TIXED Speed PTC S	245	230/400V 50Hz 3ph 0.37kW	060.8652.E40 - *10:1

<sup>\*10:1</sup> 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	1					
620RE4A (ATEX)	Four roller LoadSure element p	er LoadSure element pumphead for maximum 4bar peak pressure					
Tubing							
Bore/wall (mm) Bioprene		Marprene	Plati	Platinum Silicone		PureWeld XL	
6.4x3.2	933.0064.032	902.0064.03	2 913.A0	13.A064.032			
9.6x3.2	933.0096.032	902.0096.03	2 913.A0	3.A096.032		941.0096.032	
12.7x3.2	933.0127.032	902.0127.03	2 913.A1	13.A127.032		941.0127.032	
15.9x3.2	933.0159.032	902.0159.03	2 913.A1	913.A159.032			
Bore/wall (mm)	Neoprene	STA-PURE	STA-I	PURE PFL			
6.4x3.2	920.0064.032	960.0064.03	2 965.00	064.032			
9.6x3.2	920.0096.032	960.0096.03	2 965.00	965.0096.032			
12.7x3.2	920.0127.032	960.0127.03	2 965.01	27.032			
15.9x3.2	920.0159.032	960.0159.03	2 965.01	965.0159.032			
Loadsure Elements	•						
Material	12mm Tri-Clamp 3/4" PVDF connectors	17mm Tri-Clam	•	'		n C&G with PP 3/4" ectors	
Bioprene TL 0-2 bar (peak)	933.0120.PFT 933.01						
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Bioprene TM 0-4 bar 933.P120.PFT 933.P170.PFT (peak) STA-PURE PCS 0-4 bar 960.0120.PFT 960.0170.PFT (peak) 913.A120.PFT 913.A170.PFT Pumpsil (0-2 bar peak) Marprene TL 0-2 bar 902.0120.PPC 902.0170.PPC (peak) Marprene TM 0-4 bar 902.M120.PPC 902.M170.PPC (peak) Pumpsil 0-2 bar (peak) 913.A170.PPC 913.A120.PPC Neoprene 0-2 bar (peak) 920.0120.PPC 920.0170.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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