621DF with 620RA (ATEX) pumphead

600 series close-coupled pumps

Features and benefits

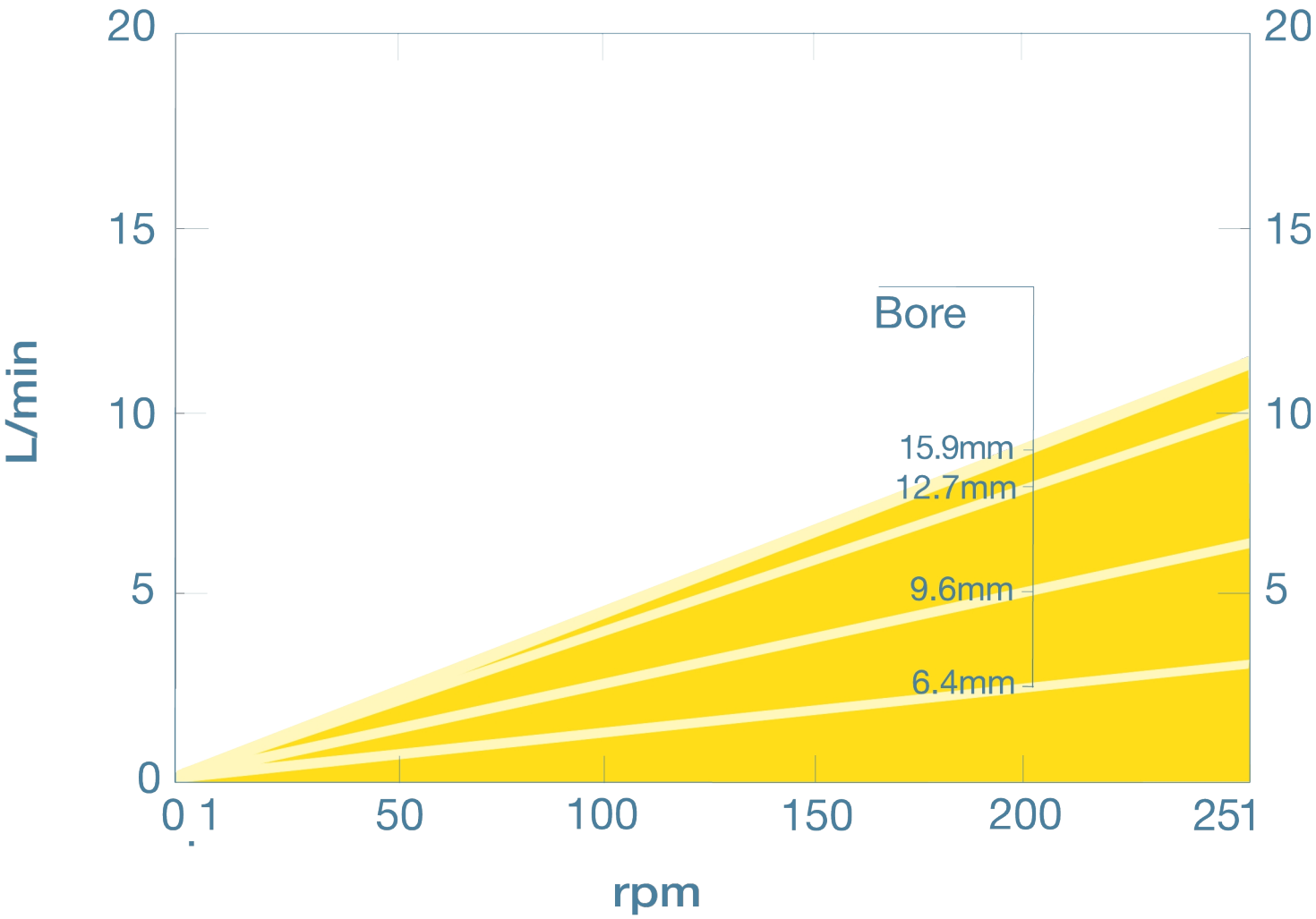
- Simplex flow rates up to 15 L/min
- Discharge pressures up to 2 bar with continuous tubing
- 620RA two roller pumphead with CIP/SIP rotor
- Compact design with foot mounted gearbox
- 24-hour continuous duty with a two-year warranty
- Reversible operation
- Fixed Speed options: 230/460 VAC, 50/60 Hz 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

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

620RA performance graph



Technical specifications

	621DF with 620RA (ATEX) pumphead
Flow rate	0.95 L/min to 15 L/min
Max. operating pressure	30 psi (2 bar)
Motor types	Fixed speed motor
Standards	ATEX 2014/34/EU, CE, EX II 2G Exh IIB T4 G6 X
Ingress Protection	IP55
Noise	<70dB(A) at 1m
Weight	57 lbs (26 kg)
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

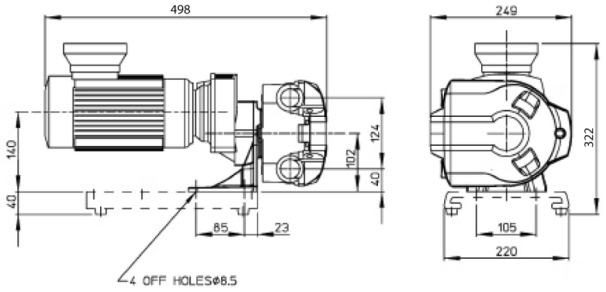
	621DF with 620RA (ATEX) pumphead
Gearbox	Aluminum, Cast iron
Motor	Cast iron
Pumphead rotor assembly	PPS/10% stainless steel strands
Seals	Neoprene
Tube clamp assembly	PP (polypropylene)

Information listed covers the complete range of fixed speed pumps.

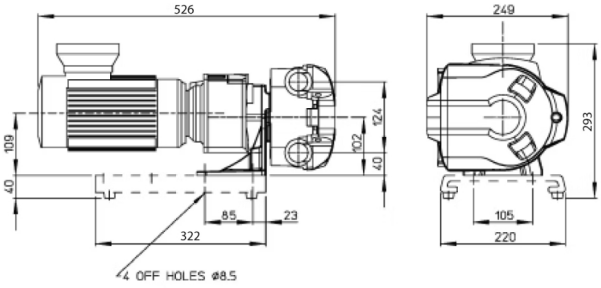
For detailed specifications of individual models/components and other drive/pumphead options, refer to user manual or contact WMFTS representative.

621DF with 620RA (ATEX) pumphead dimensions

245 rpm model



79 rpm model



Product codes

Pump	rpm	Supply	Product code
621DF/RA ATEX fixed speed PTC's	79	230/400V 50Hz 3ph 0.37kW	060.8622.020 - *10:1
	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**	**Pumpsil**	**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		
15.9x3.2	961.0159.032	966.0159.032		

Loadsure Elements				
Material	**12mm Tri-Clamp 3/4" PVDF connectors**	**17mm Tri-Clamp 3/4" PVDF connectors**	**12mm C&G with PP 3/4" connectors**	**17mm C&G with PP 3/4" 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 bar (peak)	961.0120.PFT	961.0170.PFT		
Pumpsil (0-2 bar peak)	913.A120.PFT	913.A170.PFT		
Marprene TL 0-2 bar (peak)			902.0120.PPC	902.0170.PPC
Marprene TM 0-4 bar (peak)			902.P120.PPC	902.P170.PPC
Pumpsil 0-2 bar (peak)			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.