

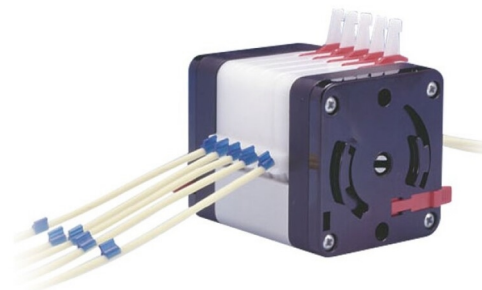
314MC pumphead

300MC series microcassette pumpheads



Features and benefits

- Four rollers for higher flow rates up to 53 ml/min
- Extension pumpheads can be added to give up to 15 channels
- Twin segment tubing doubles pumping life
- Cassettes may be removed without disturbing other channels



314MC pumphead performance

MC4 four-roller five-channel microcassette pumpheads – Tube bore and flow rates (ml/min)										
Tube codes	Orange/ Black	Orange/ Red	Orange/ Blue	Orange/ Green	Orange/ Yellow	Orange/ White	Black/ Black	Orange/ Orange	White/ White	Red/ Red
Bore mm	0.13	0.19	0.25	0.38	0.50	0.63	0.76	0.88	1.02	1.14
3.0rpm	0.002	0.01	0.01	0.03	0.05	0.08	0.13	0.17	0.22	0.27
110rpm	0.09	0.3	0.5	0.9	1.7	3.1	4.6	6.4	8.1	9.9
Tube code	Grey/ Grey	Yellow/ Yellow	Yellow/ Blue	Blue/ Blue	Green/ Green	Purple/ Purple	Purple/ Black	Purple/ Orange	Purple/ White	
Bore mm	1.29	1.42	1.52	1.65	1.85	2.05	2.29	2.54	2.79	
3.0rpm	0.35	0.46	0.52	0.60	0.76	0.90	1.1	1.3	1.4	
110rpm	13	17	19	22	28	33	40	47	53	

Technical specifications

	314MC pumphead
Number of channels	5
Number of rollers	4
Max. flow rate continuous	53 ml/min
Max. continuous operating speed	110 rpm
Compatible tubing bore size	0.13, 0.19, 0.25, 0.38, 0.5, 0.63, 0.76, 0.88, 1.02, 1.14, 1.29, 1.42, 1.52, 1.65, 1.85, 2.05, 2.29, 2.54, 2.79 mm

Materials of construction

	314MC pumphead
Adaptor plate	IXEF (Polyarylamide)
Pumphead body assembly	Aluminium
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron)
Pumphead rotor assembly	Aluminium

Information listed covers the complete range.

For detailed specifications of individual models/components refer to user manual or contact WMFTS representative.

Product codes

Pumpheads product codes		
Description		Partcode
314MC	four-roller five-channel pumphead	033.6453.000*
314MCX	four-roller five-channel extension pumphead	033.6454.000

*Replace last 0 with A, E or U for American, European or UK mains supply (American 110 V 1 ph 60 Hz)

Tubing product codes				
Colour code	Tube (mm)	Marprene*	PVC	Silicone
Orange/black	0.13		981.0013.000	
Orange/red	0.19		981.0019.000	
Orange/blue	0.25	979.0025.000	981.0025.000	
Orange/green	0.38	979.0038.000	981.0038.000	
Orange/yellow	0.50	979.0050.000	981.0050.000	
Orange/white	0.63	979.0063.000	981.0063.000	983.0063.000
Black/black	0.76	979.0076.000	981.0076.000	983.0076.000
Orange/orange	0.88	979.0088.000	981.0088.000	983.0088.000
White/white	1.02	979.0102.000	981.0102.000	983.0102.000
Red/red	1.14	979.0114.000	981.0114.000	983.0114.000
Grey/grey	1.29	979.0129.000	981.0129.000	983.0129.000
Yellow/yellow	1.42	979.0142.000	981.0142.000	983.0142.000
Yellow/blue	1.52	979.0152.000	981.0152.000	983.0152.000
Blue/blue	1.65	979.0165.000	981.0165.000	983.0165.000
Green/green	1.85	979.0185.000	981.0185.000	983.0185.000
Purple/purple	2.05	979.0205.000	981.0205.000	983.0205.000
Purple/black	2.29	979.0229.000	981.0229.000	983.0229.000
Purple/orange	2.54	979.0254.000	981.0254.000	983.0254.000
Purple/white	2.79	979.0279.000	981.0279.000	983.0279.000

* For autoclavable Marprene tubing, please replace last "0" with "*" - for example 979.0238.00*

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.



wmfts.com/global
10 July 2025