

# 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 |
| 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.



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