

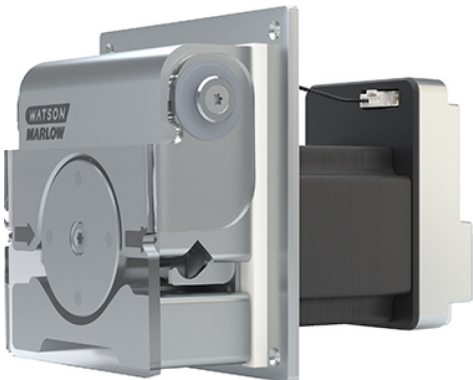
# 400 RXMD DriveSure ADC/En/Pn



400/RXMD series panel mount pumps

### Features

- DriveSure panel mount pump for RXMD with standard or custom pressure settings
- 0.1 rpm to 550 rpm speed range at 0.1 rpm increments
- Watson-Marlow closed-loop control technology delivers consistent, cool and quiet performance
- EtherNet/IP™ and PROFINET® versions for digital network integration, control and monitoring
- ADC version with 4-20 mA, 0-10 V, 2-2000 Hz and fixed speed control options
- Integrated cover-open sensor and prime-switch input
- Downloadable PC software (WM Connect) to evaluate, optimise and diagnose via USB connection
- 12 V to 48 V DC supply voltage range to suit application requirements

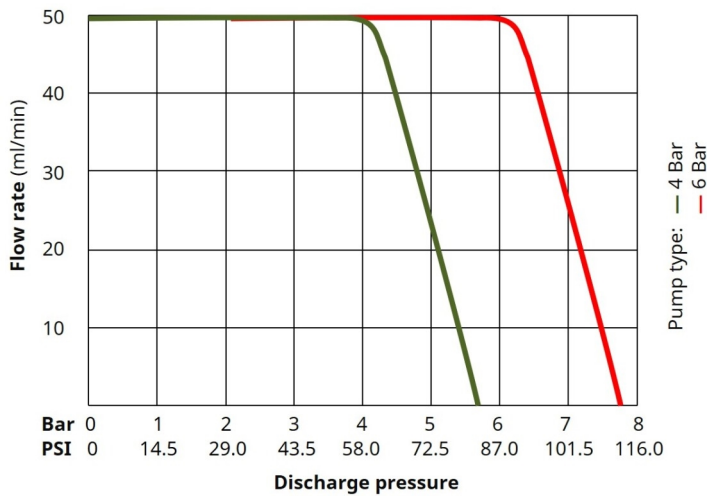


### 400 RXMD DriveSure ADC/En/Pn performance

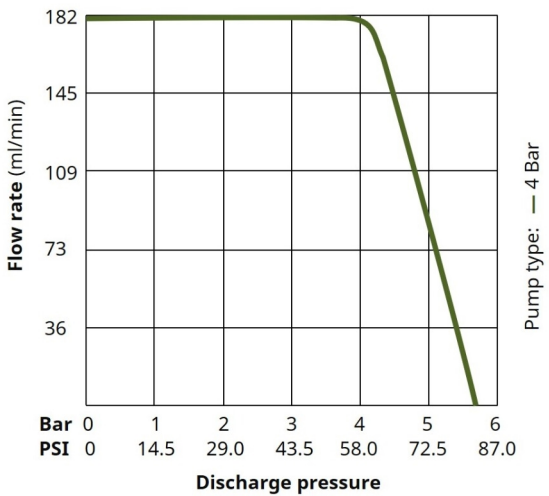
| Flow Rate (mL/min) by tube bore based on 0.1 rpm (Min) to 550 rpm (Max) |                |              |
|-------------------------------------------------------------------------|----------------|--------------|
| Tube bore (mm)                                                          | 0.1 RPM        | 550 RPM      |
| 1.6                                                                     | 0.025 (mL/min) | 137 (mL/min) |
| 3.2                                                                     | 0.091 (mL/min) | 500 (mL/min) |

Performance data is based on a 48 V DC power supply, pumping water, with 0 bar inlet and discharge pressure. Actual performance is dependent on power supply voltage (DriveSure range 12 V to 48 V DC). For further information contact your local Watson-Marlow representative.

**RXMD Pumphead, 1.6 mm Bore**  
Tygon E-3603, Water, 200 rpm



**RXMD Pumphead, 3.2 mm Bore**  
Tygon E-3603, Water, 200 rpm



## Technical specifications

|                                  | 400 RXMD DriveSure ADC/En/Pn                                                                                                                                                              |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor types                      | NEMA 24 stepper motor                                                                                                                                                                     |
| Pumphead options                 | RXMD                                                                                                                                                                                      |
| Flow rate range                  | 0.025 ml/min to 500 ml/min                                                                                                                                                                |
| Operating speed range            | 0.1 rpm to 550 rpm                                                                                                                                                                        |
| Speed Resolution                 | 0.1 rpm                                                                                                                                                                                   |
| Supply voltage                   | 12 V to 48 V DC                                                                                                                                                                           |
| Operating temperature ranges     | 5 °C to 40 °C (41 °F to 104 °F)                                                                                                                                                           |
| Rated Power                      | 75 W                                                                                                                                                                                      |
| Control options                  | 0-10 V, 2-2000 Hz, 4-20 mA, EtherNet/IP™, Fixed speed, Prime speed, PROFINET®                                                                                                             |
| Alarms                           | Cover-open, Hardware Fault, Over Current, Software error, Stall, Under/Over Voltage                                                                                                       |
| Outputs                          | Fault, Tacho                                                                                                                                                                              |
| External Inputs                  | Prime switch                                                                                                                                                                              |
| Weight ranges                    | 1.8 - 1.9 kg (3.968 - 4.189 lbs)                                                                                                                                                          |
| Location                         | Indoor, Enclosure                                                                                                                                                                         |
| Humidity                         | 80 % up to 31 °C (88 °F), decreasing linearly to 50 % at 40 °C (104 °F)                                                                                                                   |
| Noise                            | <67 dB(A)                                                                                                                                                                                 |
| Max. altitude                    | 2000 m (6561 ft)                                                                                                                                                                          |
| Standards                        | BS EN 55011-2016+A2-2021, BS EN IEC 61326-1-2021, CSA C22.2 No. 61010-1-12/AMD1:2018, EN 61010-1:2010/A1:2019, FCC 47CFR (Part 15), IEC 61010-1:2010/AMD1:2016, UL 61010-1:2012/R:2019-07 |
| Certification and compliance     | CB Certificate, EMC, NRTL certification                                                                                                                                                   |
| Compatible tubing bore size      | 1.6, 3.2 mm                                                                                                                                                                               |
| Compatible tubing wall thickness | 1.6 mm                                                                                                                                                                                    |

Noise level may vary depending on the application and system integration.

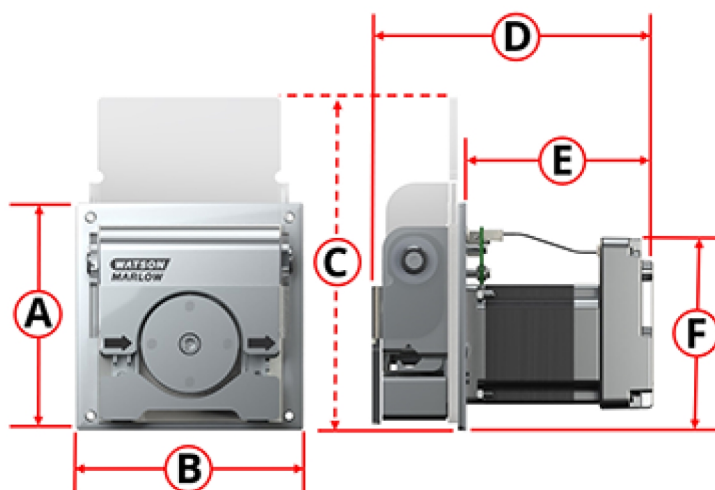
For detailed specifications of individual models refer to product reference manual or contact WMFTS representative.

## Materials of construction

|                          | 400 RXMD DriveSure ADC/En/Pn              |
|--------------------------|-------------------------------------------|
| Pumphead body assembly   | Acrylic glass, Anodised aluminium         |
| Pumphead rotor assembly  | Anodised aluminium, Stainless steel       |
| Pumphead roller assembly | Stainless steel                           |
| Motor                    | Aluminium, Stainless steel                |
| Controller Housing       | ABS/PC, Aluminium                         |
| Mounting plate assembly  | Anodised aluminium, EPDM, Stainless steel |

Information listed covers the complete range. For detailed specifications of individual models/components refer to product reference manual or contact WMFTS representative.

## 400 RXMD DriveSure ADC/En/Pn dimensions



| A   |      | B   |      | C   |      | D   |      | E  |      | F  |      |
|-----|------|-----|------|-----|------|-----|------|----|------|----|------|
| mm  | in   | mm  | in   | mm  | in   | mm  | in   | mm | in   | mm | in   |
| 114 | 4.49 | 114 | 4.49 | 167 | 6.57 | 142 | 5.39 | 96 | 3.78 | 97 | 3.82 |

Product codes



| A                    | B                       | C                           | D            | E              |
|----------------------|-------------------------|-----------------------------|--------------|----------------|
| Control              | Cable length            | Direction                   | Max Pressure | Tube bore size |
| 4 = ADC              | 1 = 1 m (3.28 ft) cable | 1 = Clockwise (CW)          | 4 = 4 bar    | 3 = 1.6 mm     |
| 8 = En (EtherNet/IP) | 3 = 3 m (9.84 ft) cable | 2 = Counter clockwise (CCW) | 6 = 6 bar    | 4 = 3.2 mm     |
| 9 = Pn (PROFINET)    |                         |                             |              |                |

| Accessories and Spares                                        |              |
|---------------------------------------------------------------|--------------|
| Product                                                       | Product code |
| DriveSure cable pack - 24 V power supply/USB-C - trials only* | 009.24CP.DVS |
| DriveSure cable pack - 48 V power supply/USB-C - trials only* | 009.48CP.DVS |
| 1 m Power Cable DriveSure ADC/En/Pn                           | 009.1PW.DVS  |
| 3 m Power Cable DriveSure ADC/En/Pn                           | 009.3PW.DVS  |
| 1 m Control Cable DriveSure ADC                               | 009.1CC.DVS  |
| 3 m Control Cable DriveSure ADC                               | 009.3CC.DVS  |
| Ethernet Cable, RJ45 to RJ45, CAT 5e SHIELDED, 3m             | 059.9123.000 |
| PROFINET® Cable, RJ45 to RJ45, CAT 5e SHIELDED, 3m            | 059.9128.000 |

\*Cable packs do not include mains power lead. If required, order power leads suitable for your region.

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. 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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