# FLEXMAG 4050 C Flowmeter



KROHNE FLEXMAG 4050 C Flowmeter

## **Features and benefits**

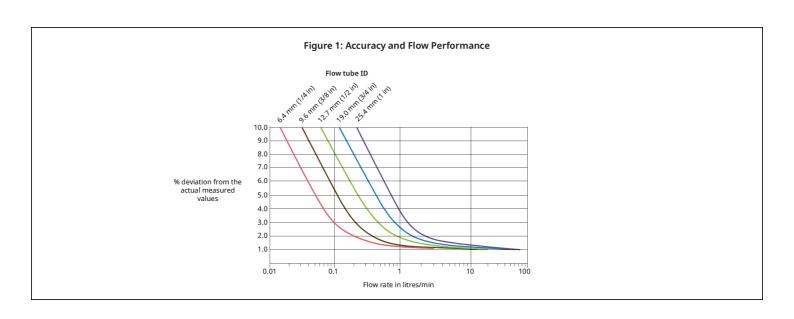
- Electromagnetic flowmeters provide superior accuracy and repeatability
- Verify accurate flow conditions of compatible Watson-Marlow pumps
- Enable easy integration into customised puresu single-use assemblies to ensure product quality



# **FLEXMAG 4050 C Flowmeter performance**

Flow tube ID and tube bore	Transmitter	l	Flow rate range and flow sensor measuring error		Flow rate range and flow sensor measuring error		Watson-Marlow cased pumps
ID 6.4 mm (1/4 in)	Small	0.015 to 3 I/min	0.1 to 1 l/min		1 to 3 l/min		530
10 0.4 11111 (1/4 111)	Jillali	0.015 to 5 1/111111	0.1 to 1 1/111111	up to 3.5%	1 (0 3 1/111111		630
ID 9.6 mm (3/8 in)	Medium	0.07 to 14 l/min	0.2 to 2 I/min		2 to 14 I/min	]	530
							630
						up to 1.35%	730
ID 12.7 mm (1/2 in)	Medium	0.1 to 20 l/min	0.4 to 4 I/min		4 to 20 I/min	]	630
						4 to 20 I/min	
ID 19.0 mm (3/4 in)	Large	0.3 to 62 l/min	0.9 to 8.5 I/min		8.5 to 62 l/min		730
ID 25.4 mm (1 in)	Large	0.5 to 75 l/min	1.5 to 15 l/min		15 to 75 l/min		730

## **FLEXMAG 4050 C Flowmeter performance**



# **Technical specifications**

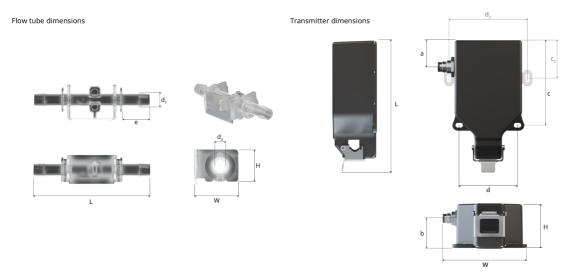
	FLEXMAG 4050 C Flowmeter
Working temperature range	2 to 45 °C
Working temperature range	36 to 113 °F
Storage temperature range	-40 to 140 °F
Storage temperature range	-40 to 60 °C
Max. operating pressure	4 bar
Max. operating pressure	58 psi
Power supply	24 VDC
Weight	0.39 - 0.46 kg
Weight	0.86 - 1.01 lbs
Min. flow rate	0.015 L/min
Max. flow rate	75 L/min
Pulse output	0 to 1000 Hz
Min. fluid conductivity requirement	≥20 µs/cm
Sterility	Flow tubes and bags are gamma sterilisable up to 50kGy and autoclavable up to 121°C for 30 min
Connector	M12 8-pin
Cable	2m cable included. Transmitter end: M12 8-pin connector fitted. Control end: unfinished.
Certification	BSE/TSE free, FDA 21 CFR 177, USP Class VI
Protection category	IP54

Small: 0.40 kg (0.88 lbs), Medium: 0.39 kg (0.86 lbs), Large: 0.46 kg (1.01 lbs)

# **Materials of construction**

	FLEXMAG 4050 C Flowmeter
Case material	ABS (Acrylonitrile butadiene styrene), Polycarbonate
Wetted material	Hastelloy C22, Polysulfone (UDEL 1700)

# **FLEXMAG 4050 C Flowmeter dimensions**



#### **Dimensions transmitter**

Nominal size	L	w	Н	a	b	С	d
Large	160 mm (6.30 in)	100 mm (3.94 in)	60 mm (2.36 in)	23 mm (0.91 in)	42 mm (1.65 in)	100 mm (3.94 in)	59 mm (2.32 in)
Medium	139 mm (5.47 in)	90 mm (3.54 in)	48 mm (1.89 in)	23 mm (0.91 in)	33 mm (1.30 in)	82 mm (3.23 in)	66 mm (2.60 in)
Small	144 mm (5.67 in)	90 mm (3.54 in)	48 mm (1.89 in)	28 mm (1.10 in)	33 mm (1.30 in)	94 mm (3.70 in)	66 mm (2.60 in)
All mounting holes diameter: 5.2 mm x 8.2 mm (0.20 in x 0.32 in), 2 additional mounting holes for Large Transmitter: c2 = 41 mm (1.61 in); d2 = 84 mm (3.31 in)							

#### **Dimensions flow tube**

Nominal size	L	w	н	d1	d2	е
ID 1/4"	70 mm (2.76 in)	22 mm (0.87 in)	17 mm (0.67 in)	8.5 mm (0.33 in)	6.0 mm (0.24 in)	16.6 mm (0.65 in)
ID 3/8"	95 mm (3.74 in)	30 mm (1.18 in)	25 mm (0.98 in)	12.6 mm (0.50 in)	9.2 mm (0.36 in)	25.6 mm (1.01 in)
ID 1/2"	95 mm (3.74 in)	30 mm (1.18 in)	25 mm (0.98 in)	16.9 mm (0.67 in)	12.5 mm (0.49 in)	25.6 mm (1.01 in)
ID 3/4"	125 mm (4.92 in)	45 mm (1.77 in)	41 mm (1.61 in)	23.4 mm (0.92 in)	19.0 mm (0.75 in)	36.0 mm (1.42 in)
ID 1"	140 mm (5.51 in)	45 mm (1.77 in)	41 mm (1.61 in)	29.9 mm (1.18 in)	25.4 mm (1.00 in)	44.0 mm (1.73 in)

## **Product codes**

# Transmitter



# Flow tubes (Box of 10)



#### **Product codes**

FLEXMAG flowmeters are available for order in combination with 530, 630, 730 cased pumps and integrated into puresu assemblies. Additional functionality when used in combination with En/Pn cased pumps. These products are not offered standalone.

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. It is the user's responsibility to ensure product suitability for use within their application. Watson-Marlow, Bio Tube and PureWeld XL are trademarks of Watson-Marlow Limited.

wmfts.com/global



Wednesday, April 5, 2023