



INDUSTRIAL SOLUTIONS

WATSON MARLOW Pumps WATSON/ MARLOW Tubing







Watson-Marlow Fluid Technology Solutions

Watson-Marlow Fluid Technology Solutions supports its customers locally through an extensive global network of direct sales operations and distributors

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qdos® CWT™

An evolution in long-life chemical metering

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Qdos[®] Conveying Wave Technology[™]

an evolution in long-life chemical metering

Qdos® CWT™ is the next level in high performance for our industry leading Qdos® range of chemical metering pumps. Conveying Wave Technology™ (CWT) delivers all the benefits of a peristaltic pump but with significantly longer service life than traditional tube designs. Qdos® CWT™ gives superior accuracy in chemical metering and dosing applications while eliminating expensive ancillary equipment.

The sealed pumphead minimizes operator exposure to chemicals, and can be safely changed in less than a minute.

- Flowrates to 7.925 GPH at up to 100 PSI
- Long service life at high pressure
- Reliable, low-maintenance metering

Low maintenance. No valves or seals to clog, leak or corrode



Advancing our industry leading Qdos® series

Qdos CWT is built on established Qdos drive technology. The Qdos series has a wide range of communication and connection options. Operator and environmental safety is assured through:

- Sealed pumphead for chemical containment
- Leak detection software
- Failure alarm capabilities

Odos CWT pumps provide outstanding chemical dosing accuracy in sustainable water treatment applications. Pumps do not suffer vapor locking and consistently dose chemicals including sodium hypochlorite, without the need to overdose to ensure reliable treatment.

They are unaffected by ambient temperature variations and will provide long service life, lowering the cost of ownership.

IP66 NEMA 4X rated casing for industrial environments

High visibility keypad and TFT display

Direct connectivity to a range of external monitoring systems

Technical Data

Range

- Universal+: Flexibility for automatic and manual control together with configurable 4-20mA input and output
- **Universal:** Automatic and manual control
- Manual: Manual speed control
- **Remote:** Remote control for absolute process security
- **PROFIBUS:** Manual and PROFIBUS control

Features

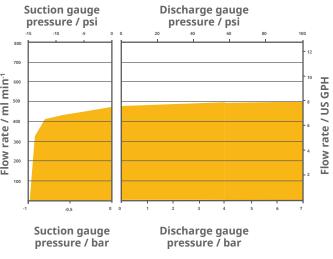
- Flow rates 0.1-500 ml/min and up to 7 bar RMS pressure
- CWT pumphead provides accurate, linear and repeatable flow
- Process uptime is maximised with no gas-locking, no valve blocking and rapid no-tools pumphead replacement
- Fluid recovery ensures operator safety and avoids chemical waste
- Flow control up to 5000:1 with ±1% accuracy
- 3 year warranty

Control options

- Inputs: Manual, 4-20mA, pulse, PROFIBUS, run / stop
- Outputs: 4-20mA, up to four configurable digital outputs, run / stop, alarm, leak detection, fluid level, auto / man, fluid recovery

Performance

Flow rate with discharge pressure



Flow rates based on pumping water at 20C with zero suction and delivery heads

Dimensions

A	В	С	D	E	F	G	н	I	J	К	L
9.2 "	8.4 "	5.8 "	3.1 "	0.5 "	5.9 "	1.7 "	4.6 "	6.8 "	1.6 "	5.5 "	0.4 "

^{*} Optional relay modules (H or R)

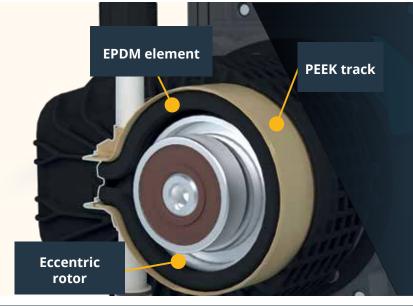
What is Conveying Wave Technology™?

Conveying Wave Technology (CWT) employs the peristaltic principle to operate a unique fluid contact element.

To achieve the peristaltic pumping action, the pump incorporates an EPDM element rather than a tube, which acts against a PEEK track. As a result the fluid contact elements are subjected to very low stress levels. In use, this means a Qdos CWT pump will deliver significantly longer service life than a traditional pump.

CWT with its unique fluid contact element has the following benefits:

- No gas locking
- Stable performance, even with temperature and pressure fluctuations
- Mechanical restitution provides consistently high accuracy for the life of the pump



Typical installation comparing a diaphragm metering pump with the Qdos

