

# qdos® CWT™

An evolution in long-life chemical metering



Qdos<sup>®</sup> Conveying Wave Technology<sup>™</sup>

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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 minimises operator exposure to chemicals, and can be safely changed in less than a minute.

- Flowrates to 500 ml/min at up to 7 bar
- 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 vapour 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**

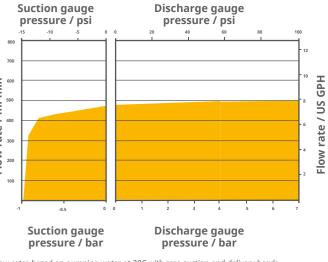
- Flow rates 0.1-500 ml/min and up to 7 bar RMS pressure
- CWT pumphead provides accurate, linear and repeatable flow
- Process uptime is maximised with no gas-locking, no valve blocking and rapid no-tools pumphead replacement
- Fluid recovery ensures operator safety and avoids chemical waste
- Flow 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	K	L
234 mm	214 mm	146 mm	77.4 mm	11.5 mm	150 mm	43 mm	117.9 mm	173 mm	40 mm	140 mm	10 mm

<sup>\*</sup> 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

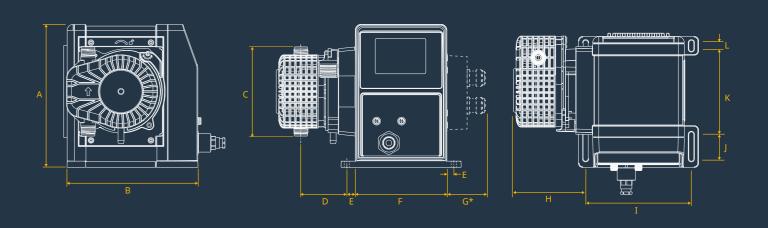
To achieve the peristaltic pumping action, the pump incorporates an EPDM element rather than a tube, which acts against a PEEK track. As a result the fluid contact elements are subjected to very low stress levels. In use, this means a Qdos CWT pump will deliver significantly longer service life than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

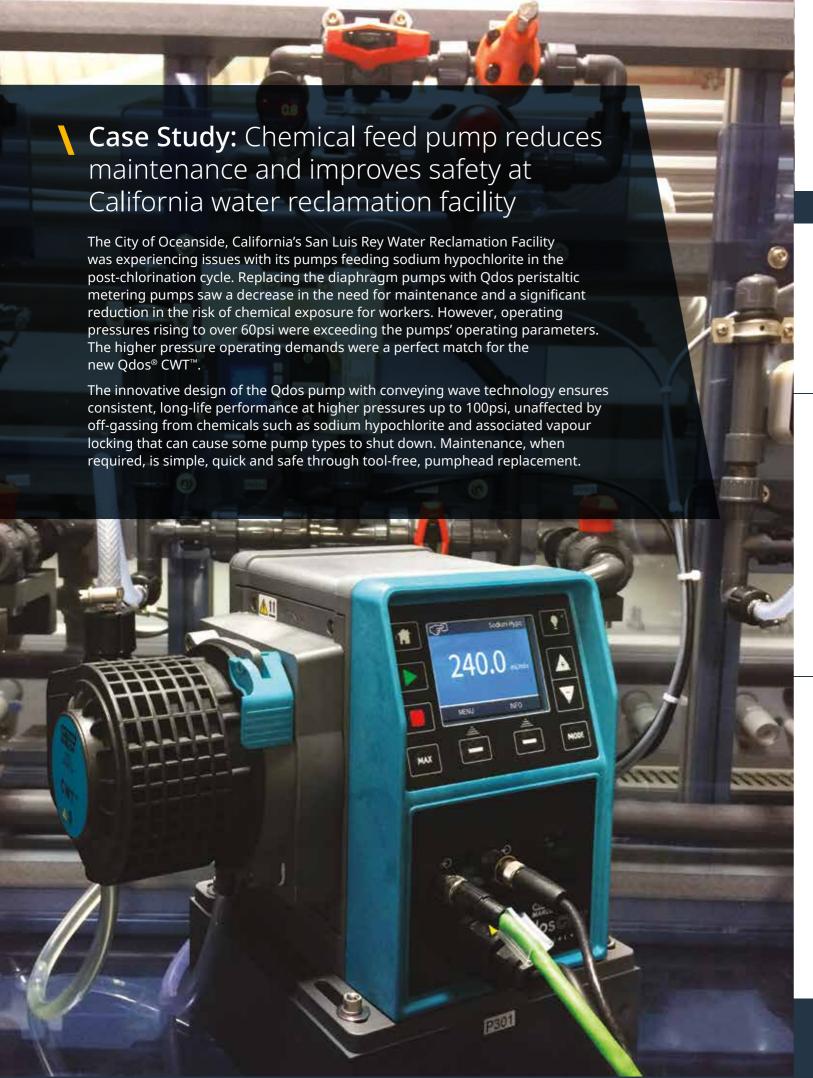
CWT with its unique fluid contact element has the following benefits:

pumphead replacement

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









Fluid Technology Group

#### **INDUSTRIAL SOLUTIONS**











#### **Watson-Marlow Fluid Technology Group**

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