

Qdos CWT

Qdos chemical metering and dosing pump



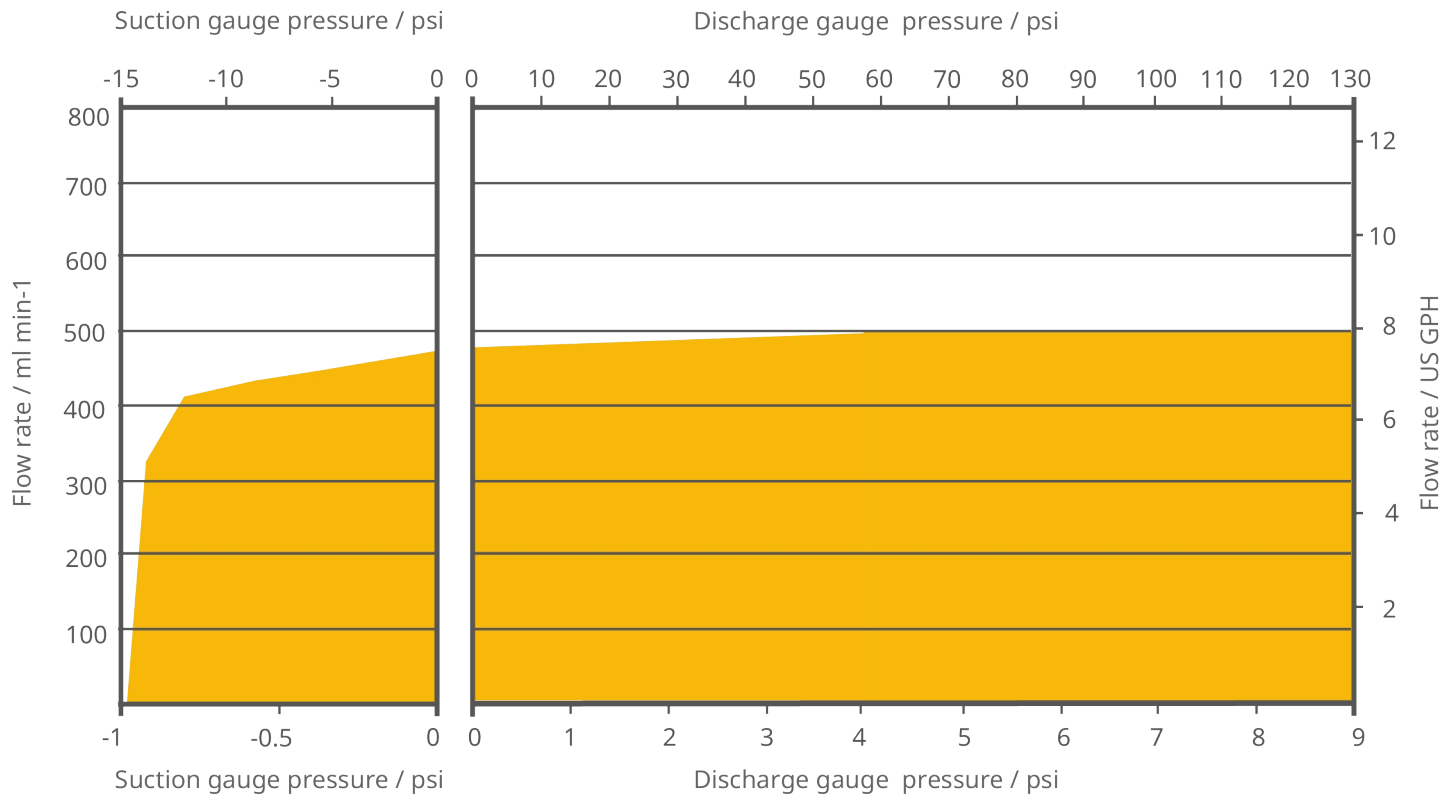
Features and benefits

- Flow rates from 0.1 to 500 ml/min at up to 9 bar
- Simple drop-in installation eliminates ancillary equipment
- Reduced maintenance with single, no-tools, component replacement
- Cost of ownership is less than that of a diaphragm pump
- Cut chemical cost through higher accuracy metering
- No backpressure valves, pulsation dampener, degassing valves, foot valves, strainers or float switches



Qdos CWT performance

	Qdos® CWT™		Qdos® CWT™ remote	
	Speed (rpm)	Flow ml/min (USGPH)*	Speed (rpm)	Flow ml/min(USGPH)*
Qdos CWT EPDM	0.025-125	0.1-500 (0.001-7.93)	0.078-125	0.3-500 (0.005-7.93)
*accuracy ±1%, repeatability ±0.5%				
*Flow rates can be affected by discharge pressure				



Technical specifications

	Qdos CWT
Flow rate	0.1 ml/min to 500 ml/min
Flow rate	0.001 USGPH to 7.93 USGPH
Max. operating pressure	9 bar (130 psi)
Ambient temperature	5 °C to 45 °C (41 °F to 113 °F)
Weight	6.8 kg (15 lbs)
Control types	Manual, Profibus®, Remote, Universal, Universal relay, Universal+, Universal+ relay
Standards	CE, cETLus, CSA, C-Tick, NSF 61
Drive ingress protection	IP66, NEMA 4X
Drive humidity	80 % up to 31 °C, 88 °F, decreasing linearly to 50 % at 40 °C, 104 °F
Drive noise	< 70dB(A) at 1m
Max. altitude	2000 m (6562 ft)
Drive power supply	AC (100—240 V AC 50/60 Hz, 180 W),. DC [(12V, 130 W), (24 V, 180 W)].

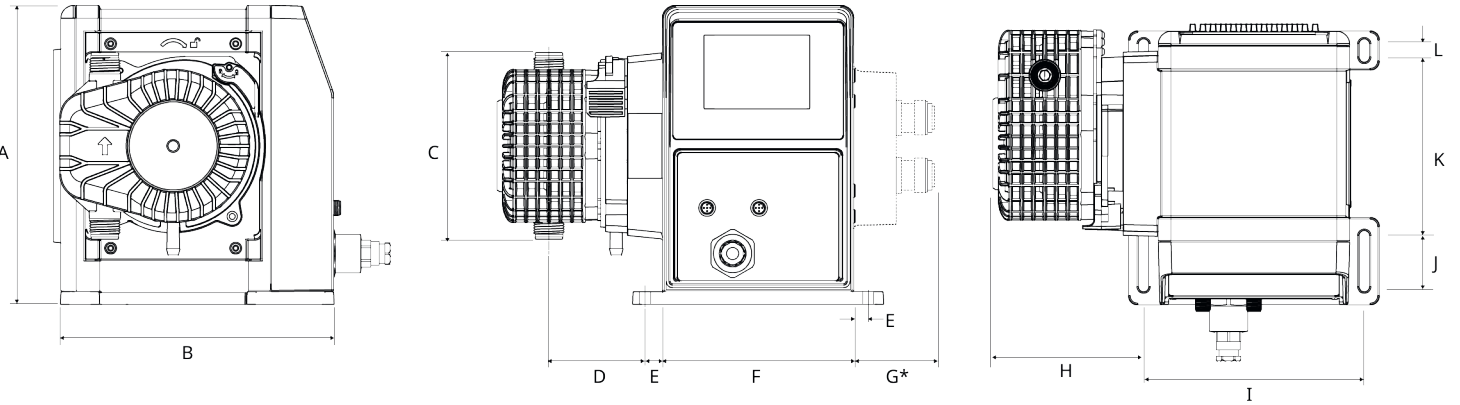
Minimum and maximum flow depends upon pumphead, flow unit and method of control. Pressure and speed depends on pumphead chosen.

Materials of construction

	Qdos CWT
Bearings	Steel
Driveshaft	Stainless steel 440C
Drive casework	20 % glass filled PPE/PS
Fluid connectors	Polypropylene, PVDF
Drive keypad/HMI	Polyester
Lubricant	PFPE based
Pumphead body assembly	40 % glass filled PPS
Pumphead rotor assembly	Stainless steel
Track	PEEK
Fluid contact element	EPDM
Fluid connection port	Polypropylene, PVDF
Fluid connection seals	FKM, Santoprene
Pumphead enclosure	40 % glass filled PPS
Pumphead enclosure seal	EPDM, NBR
Rotor	Stainless steel 303
Clamp ring	30% glass filled PP

Material depends on pumphead chosen.

Qdos CWT dimensions



A	B	C	D	E	F	G*	H	I	J	K	L
234 mm (9.2")	214 mm (8.4")	146 mm (5.8")	77.4 mm (3.1")	11.5 mm (0.5")	150 mm (5.9")	43 mm (1.7")	117.9 mm (4.6")	173 mm (6.8")	40 mm (1.6")	140 mm (5.5")	10 mm (0.4")

*Optional relay module

Control options

Operational modes	Manual	Remote	PROFIBUS	Universal	Universal+
Manual	✓		✓	✓	✓
PROFIBUS—bus speed 9.6–1,500 kb/s			✓		
Contact				✓	✓
4-20mA		✓		✓	✓
Fault reporting	✓	✓	✓	✓	✓

Features	Manual	Remote	PROFIBUS	Universal	Universal+
Numerical flow display	✓		✓	✓	✓
Numerical speed display	✓		✓	✓	✓
Fluid level monitor	✓		✓	✓	✓
Max (prime)	✓		✓	✓	✓
Auto restart (after power restored)	✓	✓	✓	✓	✓
Fluid recovery	✓		✓	✓	✓
Leak detection	✓	✓	✓	✓	✓
3.5" (88.9mm) colour TFT display	✓		✓	✓	✓
LED Pump status icons		✓			

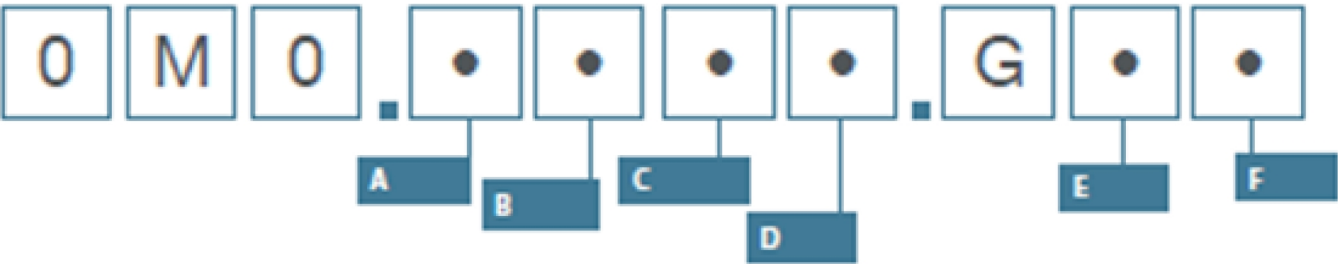
Control methods	Manual	Remote	PROFIBUS	Universal	Universal+
Input/Output Options		L	L	L or R	L or R
Manual control capability	✓		✓	✓	✓
4-20mA input		✓		✓	✓
4-20mA input two point calibration					✓
4-20mA output		✓			✓
Contact input (pulse/batch)				L or R	L or R
Manual speed adjustment range	3333:1 (Qdos 20) 5000:1 (Qdos 30) 10000:1 (Qdos 60) 20000:1 (Qdos 120) 5000:1 (Qdos CWT)		3333:1 (Qdos 20) 5000:1 (Qdos 30) 10000:1 (Qdos 60) 20000:1 (Qdos 120) 5000:1 (Qdos CWT)	3333:1 (Qdos 20) 5000:1 (Qdos 30) 10000:1 (Qdos 60) 20000:1 (Qdos 120) 5000:1 (Qdos CWT)	3333:1 (Qdos 20) 5000:1 (Qdos 30) 10000:1 (Qdos 60) 20000:1 (Qdos 120) 5000:1 (Qdos CWT)
Minimum motor adjustment speed increment (Dependent upon the operating mode and chosen flow unit)	0.006	0.078	0.100	0.003	0.003
4-20mA resolution		1600:1		1600:1	1600:1
Profibus speed resolution			550:1 (Qdos 20) 1250:1 (Qdos 30) 1250:1 Qdos 60 1400:1 (Qdos 120) 1250:1 (Qdos CWT)		
Run stop input		✓		✓	✓
Run status open collector output		✓		L	
Alarm open collector output		✓		L	
Two configurable open collector outputs					L
Two configurable relay outputs		✓		R	
Four configurable relay outputs					R
Remote fluid recovery		✓		L	L

PROFIBUS	Manual	Remote	PROFIBUS	Universal	Universal+
Speed set point			✓		
Speed feedback			✓		
Flow calibration function			✓		
Hours run			✓		
Revolution counter			✓		
Leak detection			✓		
Low fluid level alarm			✓		
Diagnostic feedback			✓		

Security	Manual	Remote	PROFIBUS	Universal	Universal+
Keypad lock	✓		✓	✓	✓
PIN lock to protect set up	✓		✓	✓	✓

*Control options - Universal and Universal+ models		
Variant	Standard pump (L)	Relay Module (R)
Input	5–24V DC	5-24V DC or 110V AC
Output	Open collector	Volt free relay contacts. Maximum: 240 V AC, 4A or 24 V DC, 4A

Product codes



Pump product codes

A	B	C	D	E	F
Model	Pumphead	Drive Variant	Digital I/O type	Pumphead orientation	Power plug
1: Qdos 20 2: Qdos 30 3: Qdos 60 4: Qdos 120 5: Qdos CWT®	2: Santoprene 5: PU 7: EPDM 8: SEBS	1: Remote 3: Manual 4: Universal 5: Universal+ 7: PROFIBUS	L: Standard pump variant (Manual, Remote and PROFIBUS models) L: Open collector outputs, 5 – 24 V DC inputs (Universal, Universal+ models) R: Relay module, Volt free relay contacts, Maximum:240 V AC, 4A or 24 V DC, 4A (Universal, Universal+ models)	L: Left R: Right	A: US E: European U: UK K: Australia R: Argentina C: Swiss D: India, South Africa B: Brazil V: 12-24 V DC Z: China

Pumphead product codes

Description	Partcode
ReNu 20 pumphead PU / PFPE 4 bar (60psi)	0M3.1500.PFP
ReNu 20 pumphead SEBS / PFPE 7 bar (100psi)	0M3.1800.PFP
ReNu 30 pumphead Santoprene / PFPE 7 bar (100psi)	0M3.2200.PFP
ReNu 30 pumphead SEBS / PFPE 4 bar (60psi)	0M3.2800.PFP
ReNu 60 pumphead Santoprene / PFPE 7 bar (100psi)	0M3.3200.PFP
ReNu 60 pumphead SEBS / PFPE 4 bar (60psi)	0M3.3800.PFP
ReNu 60 pumphead PU 5 bar (70psi)	0M3.3500.PFP
ReNu 120 pumphead Santoprene / PFPE 4 bar (60psi)	0M3.4200.PFP
CWT 30 pumphead EPDM/PEEK/PFPE 9 bar (130 psi)	0M3.5700.PFP

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. 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, LoadSure, Pumpsil, PureWeld XL, Bioprene, Marprene are registered trademarks of Watson-Marlow Limited. Tri-Clamp is a registered trademark of Alfa Laval Corporate AB. GORE and STA-PURE are registered trademarks of W.L. Gore and Associates. Please state the product code when ordering pumps and tubing.



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