

# Qdos 30 PROFIBUS pump with ReNu pumphead

**qdos30**  
Metering Pumps

Watson-Marlow Pumps Group

## FEATURES

- Flow rates 0.1 to 500ml/min at 7 bar (100psi) RMS pressure
- ReNu pumphead provides accurate, linear and repeatable flow
- Fluid recovery ensures operator safety and avoids chemical waste
- Flow control 5000:1 with  $\pm 1\%$  accuracy
- Manual and PROFIBUS functionality
- PROFIBUS DP V0 allows real time communication with diagnostic feedback
- Bus speed 9.6kb/s up to 1,500 kb/s
- 3.5" (88.9mm) colour TFT display providing pump feedback through colour, icons, graphics and text
- No valves or ancillary equipment required



*Watson-Marlow...Innovation in Full Flow*

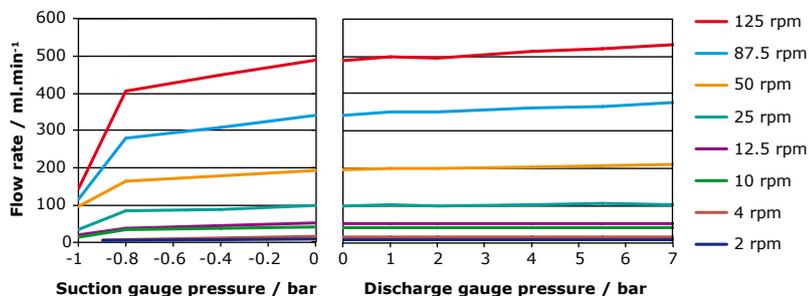
## PERFORMANCE

### Qdos 30 pump typical flow rates

	Speed (rpm)	Flow (ml/min)*
ReNu Pumphead	0.025-125	0.1-500
	Speed (rpm)	Flow (US G/hr)
ReNu Pumphead	0.016-125	0.001-7.93

\*accuracy  $\pm 1\%$ , repeatability  $\pm 0.5\%$

### Flow rate with discharge pressure for ReNu pumpheads at different drive speeds



## TECHNICAL DATA

Functionality	Qdos 30 PROFIBUS	Functionality	Qdos 30 PROFIBUS
<b>Operational modes</b>		<b>Diagnostic functions</b>	
Manual	•	Leak detection	•
PROFIBUS	•	Fluid level alarm	•
Fluid recovery	•	<b>Extended diagnostics</b>	
Fault reporting	•	Overcurrent	•
<b>Manual control</b>		Over temperature	•
Flow rate range 0.1 to 500ml/min (5000:1)	•	Pump stalled	•
Numerical flow display	•	Tacho fault	•
Numerical speed display	•	Over voltage	•
Numerical percentage of max speed display	•	Under voltage	•
Max (prime)	•	Setpoint out of range (min speed)	•
Auto restart	•	Setpoint out of range (max speed)	•
Fluid recovery and leak detection	•	<b>Security</b>	
<b>Cyclic data write</b>		Keypad lock	•
Speed set point	•	PIN lock to protect set up	•
Set flow calibration	•		
<b>Cyclic data read</b>			
Measured speed	•		
Hours run	•		
Tacho counter	•		
Flow calibration	•		

## DIMENSIONS



## SPECIFICATIONS

	Qdos 30 PROFIBUS
Ingress rating	IP66 / NEMA 4X
Enclosure	Watertight / dustproof
Humidity	Non-condensing 5% to 95%
Temperature	0C to 45C (32F to 113F)
Pump weight	Drive: 4.1kg (9lb 6oz) Pumphead: 0.95kg (2lb 15oz)
Control ratio	5000:1
Noise	< 70dB(A) at 1m
Standard	CE
Power supply	Switch mode power supply

## MATERIALS OF CONSTRUCTION

Component	Material
Keypad	Polyester
Drive casework	20% Glass filled PPE/ PS
Drive shaft	Steel 440C
Pumphead enclosure	20% Glass filled PPE/ PS
Rotor	Glass filled nylon
Rotor bearings	Stainless steel
Tube	Santoprene
Hydraulic connectors	Polypropylene

## ORDER INFORMATION

### Pump product codes

Description	Partcode	
	Pumphead located on the left*	Pumphead located on the right*
Qdos 30 PROFIBUS pump UK Plug	0M0.227L.GLU	0M0.227L.GRU
Qdos 30 PROFIBUS pump US Plug	0M0.227L.GLA	0M0.227L.GRA
Qdos 30 PROFIBUS pump EU Plug	0M0.227L.GLE	0M0.227L.GRE
Qdos 30 PROFIBUS pump Australian Plug	0M0.227L.GLK	0M0.227L.GRK
Qdos 30 PROFIBUS pump Argentinian Plug	0M0.227L.GLR	0M0.227L.GRR
Qdos 30 PROFIBUS pump Swiss Plug	0M0.227L.GLC	0M0.227L.GRC

\* The pumphead side location is required when ordering. The left/right perspective assumes the user is looking at the front of the pump. The pump in the dimensions diagram is considered a pumphead located to the left.

### Pumphead product codes

Description	Partcode
ReNu pumphead 7 bar (100 psi)	0M3.2200.GB0

All flow rates shown were obtained pumping water at 20C (68F) with zero suction and delivery heads.  
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. Qdos and ReNu are trademarks of Watson-Marlow Limited. Please state the product code when ordering pumps and pumpheads.

**WATSON  
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