

Qdos H-FLO

Qdos H-FLO: chemical metering and dosing pump

Features and benefits

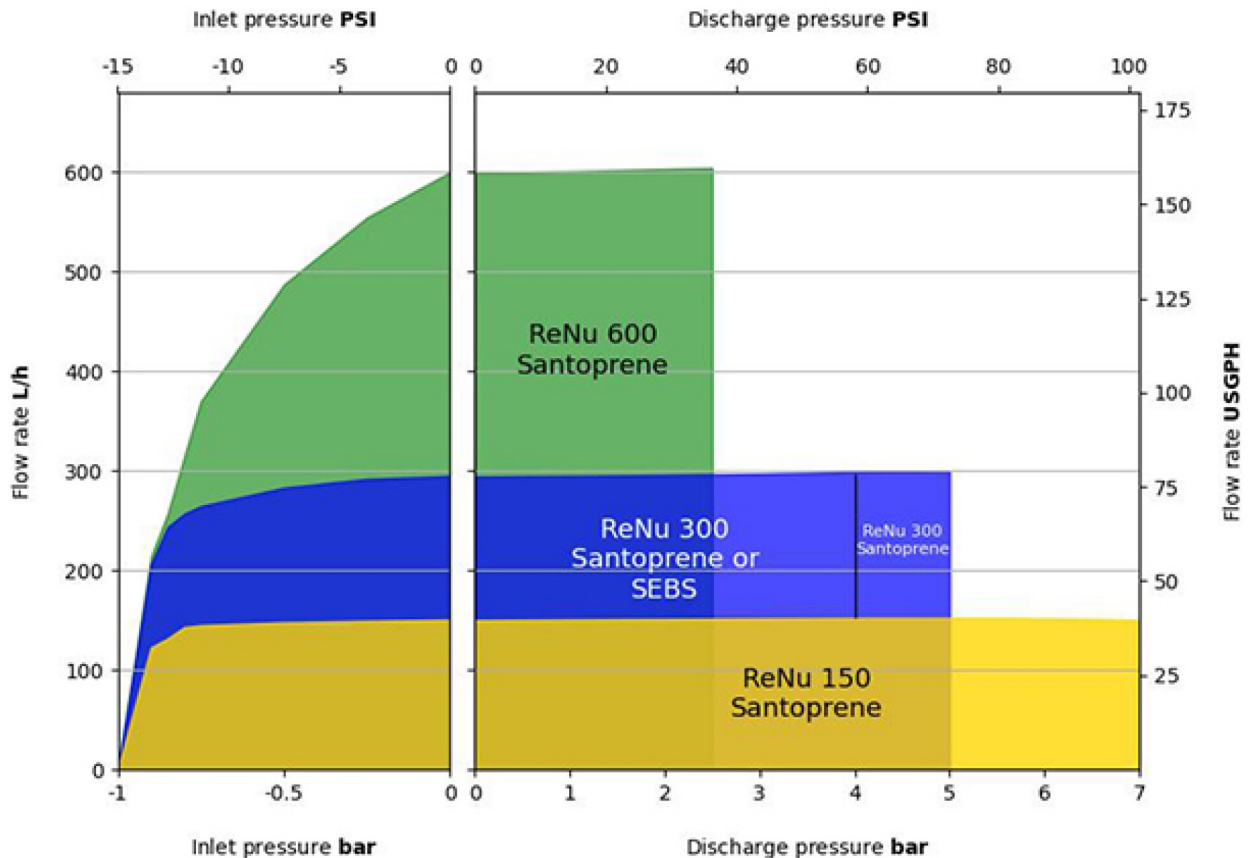
- Qdos® H-FLO offers flow rates up to 600 L/h (158.5 USGPH) and pressure capability up to 7 bar (102 psi)
- RFID Pumphead detection ensures confirmation of correct pumphead
- Revolution counter for pumphead service maintenance
- One common pump drive with several pumphead options for changing process conditions and chemistries
- Network integration, control and communication options include EtherNet/IP™, PROFIBUS® and PROFINET®
- Optional pressure sensing kit with configurable alarms for process monitoring



Performance

Pumphead	Flow rate		Discharge pressure	Fluid temperature
	Min.	Max.	Max.	Max.
ReNu 150 Santoprene	0.12 L/h (0.032 USGPH)	150 L/h (39.62 USGPH)	7 Bar (102 PSI)	45 °C (113 °F)
ReNu 300 Santoprene	0.12 L/h (0.032 USGPH)	300 L/h (79.36 USGPH)	5 Bar (73 PSI)	45 °C (113 °F)
ReNu 300 SEBS	0.12 L/h (0.032 USGPH)	300 L/h (79.36 USGPH)	4 Bar (58 PSI)	40 °C (104 °F)
ReNu 600 Santoprene	0.12 L/h (0.032 USGPH)	600 L/h (158.50 USGPH)	2.5 Bar (36 PSI)	45 °C (113 °F)

The above are certified to NSF/ANSI/CAN 61 and to NSF/ANSI/CAN 372 for lead free requirements



Technical specifications

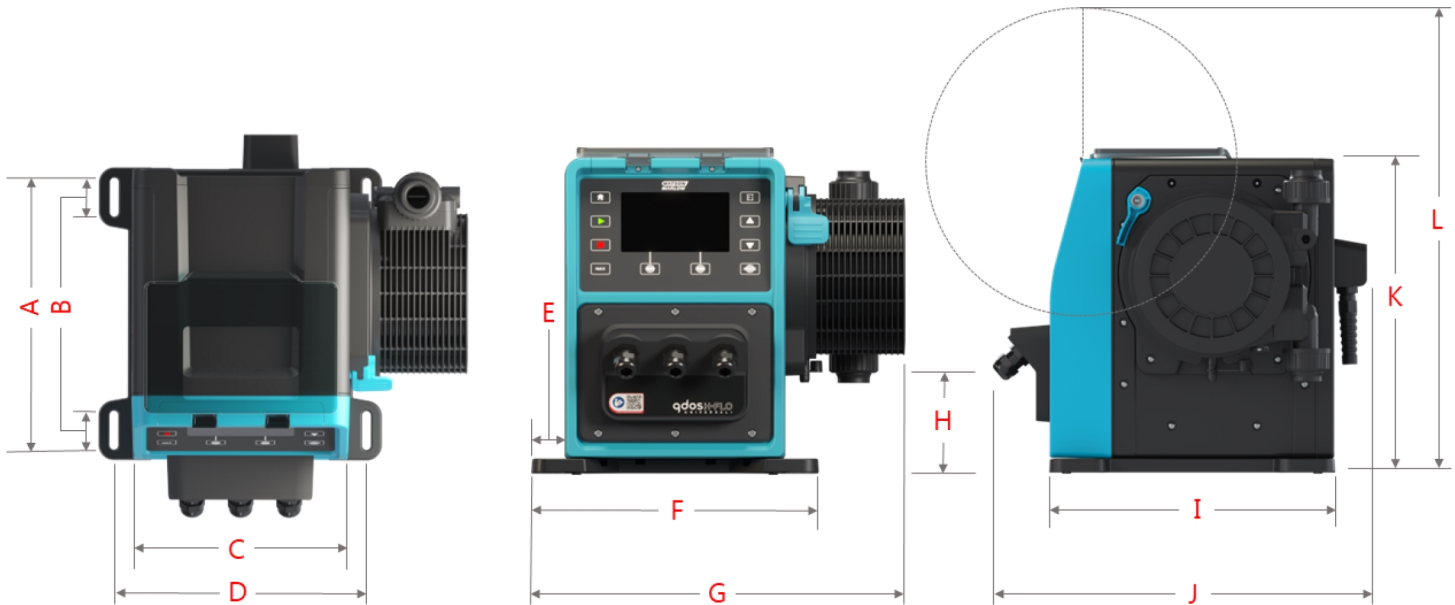
	Qdos H-FLO
FlowRateRange	0.12 L/h to 600 L/h
FlowRateRange	0.032 USGPH to 158.5 USGPH
Max. operating pressure	102 psi (7 bar)
	0.1 rpm to 190
Ambient temperature ranges	41 °F to 113 °F (5 °C to 45 °C)
Weight	33 lbs (15 kg)
Control types	EtherNet/IP™, Manual, PROFIBUS®, PROFINET®, Universal, Universal+
Standards	CAN/CSA-C22.2 NO. 61010-1-12 (R2022), CC 47CFR (Part 15), EN 301 489-1 (17), EN 61326-1:2021, EN60204-1:2018, NSF 61, PSE, RoHS, UL 61010-1:2012 Ed.3
Max. altitude	6562 ft (2000 m)
Drive power supply	100 to 240 VAC 50 to 60 Hz 350 VA

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

Materials of construction

	Qdos H-FLO Santoprene	Qdos H-FLO SEBS
	Wetted materials	
Tubing	Santoprene	SEBS
Fluid connection port	Glass filled polypropylene	PVDF
Fluid connection seals	FKM	FKM
Fluid connectors	PVC	PVC
	Non-wetted materials	
Information labels	Polyester, Polyester resin (PET)	Polyester, Polyester resin (PET)
Connection collar	PVC	PVC
Pumphead body assembly	20 % glass filled PPE/PS, 20% glass filled PPE/PS	20 % glass filled PPE/PS, 20% glass filled PPE/PS
Keypad/HMI cover	Polycarbonate (PC)	Polycarbonate (PC)
Driveshaft seal	Santoprene	Santoprene
Baseplate	20% glass filled PPE/PS	20% glass filled PPE/PS

Qdos H-FLO dimensions



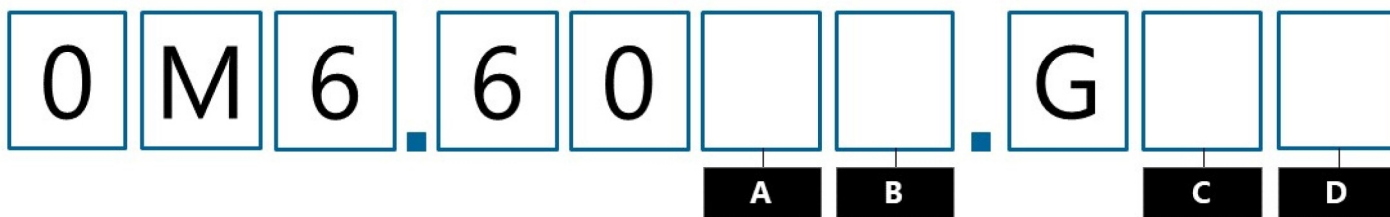
A		B		C		D		E		F	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
276.0	10.866	35.0	1.378	224.0	8.819	260.0	10.236	33.7	1.327	291.5	11.476
G		H		I		J		K		L	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
380.0	14.961	118.7	4.673	334.3	13.161	394.2	15.520	332.3	13.083	482.0	18.976

Qdos pump with gland connections shown. For other configurations see product reference manual.

Control options

Input/Output control connection options - Universal and Universal+ models only						
	M: M12 connectors			T: User-wired cable gland connectors		
Input	Analogue: 4-20 mA, Digital: 24V IEC61131-2 Type 3			Analogue: 4-20 mA, Digital: 24V IEC61131-2 Type 3, AC: 110VAC		
Output	Analogue: 4-20 mA, Digital: Relay-CO 1A 24VDC			Analogue: 4-20 mA, Digital: Relay-CO 5A 110VAC, 5A 30VDC		
Input control connection for Manual pump						
Input (Run stop only)	Digital:24V IEC61131-2 Type 3			N/A		
Operational modes	Manual	Universal	Universal+	EtherNet/IP	PROFIBUS	PROFINET
Manual	•	•	•	•	•	•
Bus Network Communication				•	•	•
Contact mode		•	•			
4-20 mA		•	•			
Fault reporting	•	•	•	•	•	•
Features	Manual	Universal	Universal+	EtherNet/IP	PROFIBUS	PROFINET
RFID pumphead detection	•	•	•	•	•	•
Numerical flow display	•	•	•	•	•	•
Numerical speed display	•	•	•	•	•	•
Fluid level monitor	•	•	•	•	•	•
Max (prime)	•	•	•	•	•	•
Auto restart (after power restored)	•	•	•	•	•	•
Fluid recovery	•	•	•	•	•	•
Leak detection	•	•	•	•	•	•
5" (127 mm) colour TFT display	•	•	•	•	•	•
Pressure sensing (optional pressure sensor)		•	•	•	•	•
Control methods	Manual	Universal	Universal+	EtherNet/IP	PROFIBUS	PROFINET
Input/Output options	M	M or T	M or T	M	M	M
Manual control capability	•	•	•	•	•	•
4-20 mA input & calibration		•	•			
4-20 mA output			•			
Contact input (pulse/batch)		•	•			
Pressure sensor input (pressure sensor purchased separately)		•	•	•	•	•
Manual speed adjustment range*	1900:1	1900:1	1900:1	1900:1	1900:1	1900:1
Minimum drive shaft adjustment speed increment	0.1	0.1	0.1	0.1	0.1	0.1
4-20 mA resolution		2184:1	2184:1			
Run stop input	•	•	•			
Run status output		•	•			
Alarm output		•	•			
Four configurable relay outputs		•	•			
Remote fluid recovery input		•	•	•	•	•
*Speed adjustment range depends upon pumphead chosen, maximum shown						
EtherNet/IP, PROFIBUS and PROFINET functions	Manual	Universal	Universal+	EtherNet/IP	PROFIBUS	PROFINET
Speed set point				•	•	•
Speed feedback				•	•	•
Flow calibration function				•	•	•
Hours run				•	•	•
Revolution counter				•	•	•
Leak detection				•	•	•
Low fluid level alarm				•	•	•
Diagnostic feedback				•	•	•
Pressure sensing (optional pressure sensor)				•	•	•
Security	Manual	Universal	Universal+	EtherNet/IP	PROFIBUS	PROFINET
Keypad lock	•	•	•	•	•	•
PIN lock to protect set up	•	•	•	•	•	•

Product codes



Drive product codes

A	B	C	D
Model	Input/Output connectors	Pumphead orientation	Power plug
3: Manual 4: Universal 5: Universal+ 7: PROFIBUS 8: EtherNet/IP 9: PROFINET	M: M12 connectors T: User-wired cable gland connectors	L: Left R: Right	A: US B: Brazil C: Swiss D: India, South Africa E: European K: Australia R: Argentina U: UK

Pumphead product codes

Description	Product code
ReNu 150 pumphead Santoprene	0M3.6200.PFP
ReNu 300 pumphead Santoprene	0M3.7200.PFP
ReNu 300 pumphead SEBS	0M3.7800.PFP
ReNu 600 pumphead Santoprene	0M3.8200.PFP

Flow rate data obtained pumping water at 20 °C (68 °F). 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, qdos, ReNu, and CWT are registered trademarks of Watson-Marlow Limited



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