

REGLO-Z, REGLO-ZS

Compact and powerful
Footprint only 10 by 18 cm!



REGLO-Z Analog

REGLO-ZS Analog

REGLO-Z Analog
1–3290 ml/min

- Variable speed
- Differential pressure max. 5.2 bar

REGLO-ZS

Drive and pump-head are separated
by a 2 m long cable.

- Pulseless fluid delivery
- 10 cm wide, 13.5 cm high
- Reversible rotation
(with Cavity Style Pump-heads)
- Interchangeable Micropump® pump-heads
- Excellent repeatability

Repetitive error (rel.)	5 ml	0.5%	(REGLO-Z Digital)
	20 ml	<0.2%	
	100 ml	<0.1%	



Interchangeable pump-heads



with Cavity Style pump-head,
rotation direction is reversible



with Suction shoe pump-head,
run only in the clock-wise direction



Dispensing and calibrating
function see Page 41



REGLO-Z Digital



REGLO-ZS Digital

REGLO-Z Digital
1–3290 ml/min

with dispensing functions

- Membrane key-pad
- LED display with setting menu
- Differential pressure max. 5.2 bar



Specifications REGLO-Z/ZS Analog

Motor type	DC motor
Speed	50 – 5000 rpm
Speed setting	1–99%, resolution 1% 2-digit potentiometer
Power consumption	50 W
Mains connection	230V _{AC} /50Hz, 115V _{AC} /60Hz adjustable
Protection rating	IP 30
Depth/Width/Height	
Drive REGLO-Z	178 x 100 x 143 mm
Drive REGLO-ZS	175 x 65 x 80 mm
External control unit	178 x 100 x 143 mm
Weight	
Drive REGLO-Z	2.1 kg (without pumphead)
Drive REGLO-ZS	0.7 kg (without pumphead)
External control unit	1.7 kg

Specifications REGLO-Z/ZS Digital

Motor type	DC-Motor
Speed range	50 – 5000 rpm
Speed setting	rpm, resolution 1 rpm
Flow rate setting	ml/min, liters/min
Power Consumption	75 W
Mains connection	100 – 230V _{AC} /50 – 60Hz
Protection rating	IP 30
Depth/Width/Height	
Drive REGLO-Z	178 x 100 x 135 mm
Drive REGLO-ZS	175 x 65 x 80 mm
External control unit	178 x 100 x 135 mm
Weight	
Drive REGLO-Z	1.7 kg (without pumphead)
Drive REGLO-ZS	0.7 kg (without pumphead)
External control unit	1.2 kg

Ordering Information

Model	Order No.
REGLO-Z Analog	ISM 895
REGLO-ZS Analog	ISM 896
REGLO-Z Digital	ISM 901
REGLO-ZS Digital	ISM 1143
Foot switch	ISM 891
Pump-head	Page 45
2 Nozzles	Page 45

LabVIEW drivers for Reglo-Z / -ZS Digital
download for free: www.ismatec.com

Never use a gear pump for media containing
particulates.

MICROPUMP®

Ordering Information pump-heads for REGLO-Z / -ZS

Pump-heads »Suction shoe«

- Enhanced pumping performance at elevated differential pressures
- Suited for elevated temperature ranges
- Not recommended for applications requiring a suction lift

Suction Shoe	Pump-head No.	Order No.	Flow rate (ml/min)		Differential pressure max. bar	Gear material	Seals	Stainless steel housing	System pressure, max. (bar)	Temperature range °C	Internal Bypass
			min.	max.							
For corrosive media	GA-X21.CFS.B	MI0006	0.85	85	1.4	Graphite	PTFE	SS316	21	-46 – +177	-
	GA-X21.JFS.B	MI0312	0.85	85	2.3	PEEK™	PTFE	SS316	21	-46 – +177	-
	GA-V21.CFS.B	MI0007	2.1	210	2.8	Graphite	PTFE	SS316	21	-46 – +177	-
	GA-V23.CFS.B	MI0008	4.2	420	2.8	Graphite	PTFE	SS316	21	-46 – +177	-
	GA-V23.PFS.B	MI0131	4.6	460	5.2	PPS	PTFE	SS316	22	-46 – +177	-
	GA-V23.JFS.B	MI0280	4.6	460	5.2	PEEK	PTFE	SS316	22	-46 – +177	-
	GA-X21.CFC.B	MI0309	0.85	85	1.4	Graphite	PTFE	Hastelloy®-C276	21	-46 – +177	-
	GA-V23.CFC.B	MI0310	4.2	420	2.8	Graphite	PTFE	Hastelloy-C276	21	-46 – +177	-

- Ports (internal thread) 1/8"-27NPT
- Flow rates without differential pressure
- Operating temperature: with other seals up to 99°C possible

Pump-heads »Cavity style«

- Can be used for viscous media and applications requiring a certain suction lift
- Excellent chemical resistance
- Smooth and precise flow

Cavity Style	Pump-head No.	Order No.	Flow rate (ml/min)		Differential pressure max. bar	Gear material	Seals	Stainless steel housing	System pressure, max. (bar)	Temperature range °C	Internal Bypass
			min.	max.							
For corrosive media	GJ-N23.FFS.B.B1	MI0013	32	3200	1*	PTFE	PTFE	SS316	21	-46 – +54	✓
	GJ-N23.FFS.B	MI0016	32	3200	1*	PTFE	PTFE	SS316	21	-46 – +54	-
	GJ-N23.JFS.B	MI0313	32	3200	1*	PEEK	PTFE	SS316	21	-46 – +54	-
	GJ-N23.JFS.B.B1	MI0019	32	3200	1*	PPS	PTFE	SS316	21	-46 – +54	✓
	GJ-N23.JFS.B	MI0020	32	3200	1*	PPS	PTFE	SS316	22	-46 – +54	-
	GJ-N23.FFC.B	MI0284	32	3200	1*	PTFE	PTFE	Hastelloy-C276	21	-46 – +54	-
For abrasive media	GJ-N23.9FD.B	MI0265	32	3200	1*	NiC	PTFE	Surface hardened	21	-46 – +54	-

- Ports (internal thread) 1/8"-27NPT
- Flow rates without differential pressure
- Operating temperature: with other seals up to 99°C possible

* For applications with differential pressures exceeding 1 bar we recommend using the MCP-Z drive.



Service Kits contain the wearing parts (bushings, seals, gears)



These pump-heads are also available as OEM versions. Ask for the detailed data sheet.

Interfaces



REGLO Analog

- Speed control (0–5 or 0–10 V, 0–20 or 4–20 mA)
- Speed output
2-channel: 0–8 kHz
4-channel: 0–5 kHz
- Start/Stop
- Rotation direction



REGLO Digital

- PC-controllable
- Analog: only speed output (see Reglo *Analog*), start/stop and autostart

Tubing adaptors for gear pump-heads

Threaded stainless steel connectors

Order No.	External Tubing thread	Tubing adaptor	Tubing i.d. mm
AR0001	1/8" NPT	Tube nozzle	6
AR0002	1/8" NPT	Tube nozzle	3
AR0004	3/8" NPT	Tube nozzle	12
AR0008	1/8" NPT	Tube nozzle	8
AR0009	1/8" NPT	Tube nozzle	9.5
AR0024	1/8" NPT	Pipe connection	6 (outside)

Threaded connectors in Hastelloy-C

AR0001-HC	1/8" NPT	Tube nozzle	6
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