

Pulseless delivery – High accuracy

REGLO-Z *Digital*, compact gear pump

Small foot print: 4" x 7" (10 x 17.5 cm)

High performance

Ideal for dosing and filling



15 interchangeable Micropump pumpheads
Reversible flow (with cavity style pumpheads)

Flow rate 0.85 – 3200 ml/min

- Membrane key-pad
- LED display with settings menu
- Differential pressure up to 2.8 bar (40 psi)
with Z-1830 pumphead up to 5.2 bar (75 psi)
- Excellent repeatability

repetitive error (rel.)	0.5%	at	5 ml
	< 0.2%	at	20 ml
	< 0.1%	at	100 ml

Dosing functions

- pumping by speed or flow rate
- dosing by volume or time
- dosing by volume within a pre-set time
- interval dosing by volume with pauses
- interval dosing by time with pauses
- programming the number of dosing cycles
- pause time setting
- *calibrating* flow rate and dosing volume



The complete REGLO-Z *Digital* pump system consists of:

- drive + magnet
- pumphead + 2 tube fittings

Ordering Info

Drive REGLO-Z *Digital* incl. magnet **ISM 901**

Specifications

Motor type	DC-Motor
Speed range	50 – 5000 min ⁻¹
Speed setting	rpm, resolution 1 rpm
Flow rate setting	ml/min
Power consumption	60 W
Power supply	85–264 V _{AC} / 47 – 60 Hz
Protection rating	IP 30
Depth/Width/Height	175x 97x135mm (6.8x3.8x5.3") (without pumphead)
Weight	1.7 kg (3.7 lb) (without pumphead)

Interfaces

- RS232 (PC controllable)
- Speed output (0–10 kHz)
- Run/Stop
- Autostart

Never use a gear pump with media containing solids!

Pumpheads for REGLO-Z *Digital*

Pumphead No.	Suction shoe						For corrosive media	
	Z-186	Z-186 P	Z-181	Z-183	Z-1830	Z-1830 P	Z-186 HC	Z-183 HC
Flow rate (ml/min) max.	85	85	210	420	460	460	85	420
Flow rate (ml/min) min.	0.85	0.85	2.1	4.2	4.6	4.6	0.85	4.2
Differential pressure max. (bar)	1.4	2.3	2.8	2.8	5.2	5.2	1.4	2.8
Gear material	Graphite	PEEK	Graphite	Graphite	PPS	PEEK	Graphite	Graphite
Seals	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Housing	SS316	SS316	SS316	SS316	SS316	SS316	Hastelloy-C276	Hastelloy-C276
System pressure, max. (bar)	21	21	21	21	22	22	21	21
Operating temperature in °C	-46...+177	-46...+177	-46...+177	-46...+177	-46...+177	-46...+177	-46...+177	-46...+177
Internal bypass	—	—	—	—	—	—	—	—
Ports (internal thread)	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT
Order No.	MI0006	MI0312	MI0007	MI0008	MI0131	MI0280	MI0309	MI0310

Pumphead No.	Cavity Style					For corrosive media	For abrasive media
	Z-120	Z-140	Z-140 P	Z-130	Z-150	Z-140 HC	Z-150 WI
Flow rate (ml/min) max. ¹⁾	3200	3200	3200	3200	3200	3200	3200
Flow rate (ml/min) min. ¹⁾	32	32	32	32	32	32	32
Differential pressure max. (bar)	²⁾	²⁾	²⁾	²⁾	²⁾	²⁾	²⁾
Gear material	PTFE	PTFE	PEEK	PPS	PPS	PTFE	NiC
Seals	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Housing	SS316	SS316	SS316	SS316	SS316	Hastelloy-C276	Surface hardened
System pressure, max. (bar)	21	21	21	21	22	21	21
Operating temperature in °C ³⁾	-46...+54	-46...+54	-46...+54	-46...+54	-46...+54	-46...+54	-46...+54
Internal bypass	✓	—	—	✓	—	—	—
Ports (internal thread)	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT	1/8"-27NPT
Order No.	MI0013	MI0016	MI0313	MI0319	MI0020	MI0284	MI0265

¹⁾ Flow rates without differential pressure

²⁾ For applications with differential pressures exceeding 1 bar (14.5 psi) we recommend using the MCP-Z drive.

³⁾ Operating temperature: with other seals up to 99°C possible

The „Cavity Style“ pumphead is well suited for all standard pumping applications in laboratories or production.

This type of pumphead can even be recommended for fluids featuring an elevated viscosity or the use in applications requiring a slight suction lift.

The same pumpheads can also be used with the REGLO-Z *Analogue* drive (without dosing functions).



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