TECHNICAL SHEET

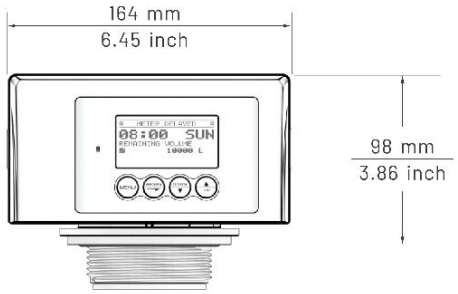
GZ2

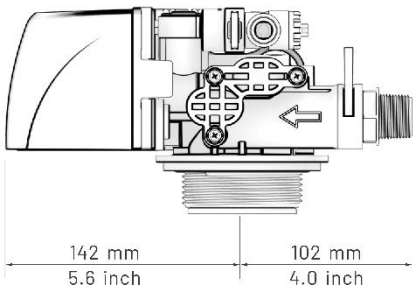
ELECTRONIC CONTROL VALVE

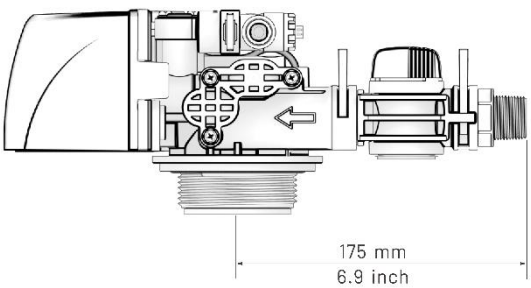
Affordable Water Treatments of Manitoba











CHARACTERISTICS

- Fiber-reinforced polymer valve body for superior strength and durability, non-corrosive, and UV-resistant.
- Downflow regeneration (in standard mode). Regeneration can be programmed as upflow rather than downflow, however the regeneration cycles remain the same as those specified in "Regeneration Cycle Phases" below.
- **Compact dimensions, installation height less than 100 mm.**
- **It is possible to install a 9 Volt buffer battery (not included) which allows the valve to return to the service position in case of a power failure.**
- Capacitors in the system can keep the programming and the time updated after a power failure.
- The large LCD screen displays various system parameters which can be set independently and flexibly.
- Provides various interfaces for external auxiliary equipment, such as dosing pump, auxiliary relay, chlorine producer.
- Backwash capacity is compatible with water softener cylinders up to 12" and filters up to 10" in diameter.
- Low water consuption piston – double backwash capacity.
- The control valve can be adapted to the LCD RC23 series remote control panel, useful for users to remotely monitor the operating status of the system.
- Days override function; 1 - 99 days available.
- 12-volt output AC Adapter provides safe and easy installation.
- Constant flow rate information thanks to the compact turbine meter of 20 GPM.
- 5 operating modes available:
    1. Meter immediate
    2. Meter delayed
    3. Time clock delayed
    4. Time controlled with week days
    5. Filter
- Drain fitting with straight or elbow hose connector. On request also available in brass with 3/8" quick connection.
- Programming software with 9 languages available (english, italian, spanish, french, german, russian, polish, danish and dutch).
- Patented by-pass (optional), available in plastic (standard) or stainless steel (on request).
- Low salt alarm setting available.
- Telephone number and company name can be set on the main screen view.
- Mixing valve on the body.
- 24 hour clock.

Technical specification		
Valve material	Body	Food grade plastic PPO
	Main piston	Brass lead free with Teflon® coating
	Seals	Food grade EPDM
	Lubrification	Food grade lubricant
Inlet / Outlet		¾" o 1" NPT/BSP
Mounting base		2.5" male thread – 8 NPSM
Distributor pilot		1.05" O.D. (26.7 mm)
Drain line		½" O.D. o ½" I.D.
Brine line		3/8" I.D.
Regeneration flow		Upflow - downflow
Regeneration mode		Time Clock / Day of Week / Hours Delayed / Meter Immediate / Meter Delayed / Mix / Proportional
Regeneration cycle phases		
Backwash / Brine draw / Rapid rinse / Brine well refill		
Regeneration can be programmed in counter-current instead of co-current, however the regeneration cycles remain the same as specified here.		
Meter accuracy		0.4 – 15 GPM ±5% (0.09 – 3.4 m^3/h)
Meter capacity range		99999 gal / 999999 L / 999.99 m^3
Power supply		12VDC, 50/60 Hz
Hydrostatic pressure		300 psi (20 bar)
Working pressure		20 – 125 psi (1.4 – 8.5 bar)
Operating temperature		34 – 110°F (1 – 43°C)
Dimensions		6.5" x 9.6" x 3.9" (164 mm x 244 mm x 98 mm)
Flow rates (50 Psi inlet) – Solo valvola		
Continuous (15 psi drop)		20 GPM or 4.5 m^3/h or 4500 l/h
Peak (25 psi drop)		26 GPM or 5.9 m^3/h or 5900 l/h
Cv (flow at 1 psi drop)		5.0
Max. Backwash (25 psi drop)		7.0 GPM or 1.6 m^3/h or 1600 l/h

Specific applications flow rates		
SOFTENER	SAND FILTER	CARBON FILTER
0744 0,6 CF 3,08 GPM	0744 20 KG 1,76 GPM	0744 7 KG 1,76 GPM
0948 1,06 CF 5,28 GPM	0948 35 KG 3,08 GPM	0948 15 KG 3,08 GPM
1054 1,42 CF 8,81 GPM	1054 50 KG 3,96 GPM	1054 20 KG 3,96 GPM
1665 4,24 CF 13,2 GPM	1248 60 KG 5,72 GPM	1248 25 KG 5,72 GPM

ACCESSORIES INCLUDED

12V transformer, inlet/outlet 1" or ¾" threaded connection, upper diffuser, lower diffuser, injectors (all sizes), DLFC (all Sizes), BLFC (all sizes), riser pipe, Air-Check, Brine line filter and ogive for brine draw line.

OPTIONAL ACCESSORIES

Patented plastic by-pass (available in stainless steel on request), safety valve, disinfection set (chlorine generation), waste water screw connection made of brass instead of plastic