



## Zero Gravity Filters Maggie 1-Core (MG100)

### SPECIFICATION SHEET

Filter System	
Body	Stainless steel 304L.
Magnet	Permanent, rare earth, neodymium iron boron.
Magnetic tube	Stainless steel 316L.
Ball Valve	Outlet/Purge: 3/4" 3-way ball valve. The valve has a stainless steel 316 body and ball with PTFE seats.
Actuator	Double acting, developing 300 in/lb at 80 psi. Manufactured by Assured Automation, size PD045.
Connections	Inlet: 3/4" MNPT. Outlet/Purge: 3/4" FNPT.
O-rings	Viton standard.

Controls	
Electrical Timer	Adjustments for purge duration and purge interval between 10 ms and 99 hours. Manual purge push button. Housing made of ABS plastic, NEMA 4 (IP65) rated.
Air Solenoid Valve	ASCO direct mount 24 VDC or 120 VAC
Air Manifold Block	Aluminum

Site Requirements	
Air Supply	70 to 80 psi, clean and dry. 1/4" air supply connection. Required air flow is 8 standard cubic feet per minute (scfm).
Electrical Supply	24 VDC or 120 VAC
Pneumatic Pipework	1/4" pneumatic flexible tubing with push-in connectors.
Approximate Dimensions and Weight	4.5 x 7 x 21" (116 x 176 x 532 mm). Dry: 10 lbs, Wet: 11.5 lbs (4.5, 5.2 kgs)
Fluid Volume	0.25 gallons

**MG100**

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Operating Parameters	
Number of Magnetic Shuttles	1 per unit.
Flowrate	12 gpm (45 LPM), maximum with water-based fluids. 8 gpm (30 LPM), maximum with oil (30 cSt at 40°C).
Operating Pressures	75 psi (517 kPa), maximum. 25 psi (172 kPa/0.17 mPa), minimum. 125 psi (0.86 mPa) test pressure.
Operating Temperature	170°F (75°C) maximum.
Backwash Control	Automatically using electrical timer or manually using push button.
Energy Consumption (per purge)	Air: .42 cubic feet (rotate valve and shuttle Maggie) Electrical: 2.5 watts
Purge Volume	1.0 gallon (5 seconds at 12 gpm)

Options	Standard	Upgrade	Upgrade	Upgrade
Controls	Electrical Timer	Turck Field Logic Controller with HMI	Mitsubishi PLC	Omron PLC
O-rings	Viton	Buna or EPDM	ETP	
Actuator	Double Acting	Spring Return		
Air Solenoid Valve	ASCO Direct Mount	SMC	Options	
Magnetic Shuttle	170°F	195°F		

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