



Zero Gravity Filters Maggie 3-Core (MG300)

SPECIFICATION SHEET

Filter System	
Body	Stainless steel 304L.
Magnet	Permanent, rare earth, neodymium iron boron.
Magnetic tube	Stainless steel 316L.
Ball Valve	Outlet/Purge: 1" 3-way ball valve. The valve has a stainless steel 316 body and ball with PTFE seats.
Actuator	Double acting, developing 398 in/lb at 80 psi. Manufactured by Assured Automation, size PD060.
Connections	Inlet: 1" MNPT. Outlet/Purge: 1" FNPT.
O-rings	Viton standard.

Controls	
Electrical Timer	Adjustments for purge duration and purge interval between 10ms 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 18 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	8.25 x 14.5 x 25.4" (210 x 366 x 644 mm). Dry: 99 lbs, Wet: 103 lbs (45, 47 kgs)
Fluid Volume	0.5 gallons

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Operating Parameters	
Number of Magnetic Shuttles	3 per unit.
Flowrate	35 gpm (133 LPM), maximum with water-based fluids. 25 gpm (95 LPM), maximum with oil (30 cSt at 40°C).
Operating Pressures	100 psi (690 kPa), maximum. 25 psi (172 kPa/0.17 mPa), minimum. 150 psi (1,035 kPa) test pressure.
Operating Temperature	170°F (75°C) maximum.
Backwash Control	Automatically using electrical timer or manually using push button.
Energy Consumption	Air: .52 cubic feet (rotate valve and shuttle Maggie) Electrical: 2.5 watts
Purge Volume	3 gallons (5 seconds at 35 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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