



## Zero Gravity Filters Maggie 26-Core (MG2600)

### SPECIFICATION SHEET

Filter System	
Body	Stainless steel 304L.
Magnet	Permanent, rare earth, neodymium iron boron.
Magnetic tube	Stainless steel 316L.
Butterfly Valve and Actuator	Outlet: 3" wafer style butterfly valve. Purge: 1.5" or 2" wafer style butterfly valve. Valves have cast iron bodies with Viton seats. Stainless steel 316 disc and stem. Actuator: Pneumatic, Double Acting.
Connections Inlet/Outlet	Inlet: 3" Victaulic. Outlet: 3" FNPT threaded flange. Purge: 1.5" or 2" FNPT threaded flange.
Valve Seats and O-rings	Viton standard.

Controls	
Turck Controls	Field Logic Controller with 4.3" TFT color display HMI on panel door. Adjustments for purge duration, purge interval, and manual purge push button. Controls operate Magnetic Shuttle and Valve movement, with dome light for visual indication of power, purge, and fault.
Enclosure	Stainless steel, NEMA 4X (IP66).
Air Solenoid Valve	SMC SY7000 manifold assembly, 2-Station with VPA series 5 port pilot valve.
Air Preparation	1/2" (12 mm) NPT inlet with air lockout, filter and regulator, and pressure gauge.

Site Requirements	
Air Supply	70 to 80 psi (0.48 – 0.55 mPa) clean and dry. 1/2" (12mm) air supply connection. Required air flow is 135 standard cubic feet per minute (scfm).
Electrical Supply	24 VDC or 120 VAC
Pneumatic Pipework	3/8" (10mm) pneumatic flexible tubing with push-in connectors
Approximate Dimensions and Weight, MG2600	17.5 x 16 x 55" (44 x 41 x 140 cm) Dry: 408 lbs, Wet: 446 lbs (185, 203 kgs)
Fluid Volume	3.75 gallons

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Operating Parameters	
Number of Magnetic Shuttles	26 per unit.
Flowrate per MG2600	250 gpm (946 LPM), maximum with water-based fluids. 175 gpm (665 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.
Purge Control	Automatically using interval timer or manually using push button.
Energy Consumption (per purge)	Air: 2 cubic feet (rotate valves and shuttle Maggie) Electrical: 2.5 watts
Purge Volume per MG2600	20 gallons (5 seconds at 250 gpm)

Multi-Station Systems	
Approximate Dimensions and Weight, 2-Station	44 x 43 x 81" (112 x 109 x 206 cm). Dry: 1,500 lbs, Wet: 1,720 lbs (680, 780 kgs)
Approximate Dimensions and Weight, 3-Station	60.5 x 43 x 81" (154 x 109 x 206 cm). Dry: 2,090 lbs, Wet: 2,390 lbs (948, 1,084 kgs)
Approximate Dimensions and Weight, 4-Station	77 x 44 x 82.5" (196 x 112 x 210 cm). Dry: 2,685 lbs, Wet: 3,240 lbs (1,218, 1,470 kgs)
Approximate Dimensions and Weight, 5-Station	93.5 x 44 x 82.5" (238 x 112 x 210 cm). Dry: 3,300 lbs, Wet: 3,940 lbs (1,497, 1,787 kgs)
Approximate Dimensions and Weight, 6-Station	110 x 44 x 82.5" (279 x 112 x 210 cm). Dry: 3,920 lbs, Wet: 4,635 lbs (1,778, 2,102 kgs)
Air Solenoid Valve	2-Station: SMC SY7000 manifold, 3-Station with (2) VPA pilot valves 3-Station: SMC SY7000 manifold, 5-Station with (3) VPA pilot valves 4-Station: SMC SY7000 manifold, 6-Station with (4) VPA pilot valves 5-Station: SMC SY7000 manifold, 8-Station with (5) VPA pilot valves 6-Station: SMC SY7000 manifold, 9-Station with (6) VPA pilot valves

Options	Standard	Upgrade	Upgrade
Controls	Turck Field Logic Controller with HMI	Mitsubishi PLC	
Control Panel Enclosure	NEMA 4X	Custom Colors	
O-rings	Viton	Buna or EPDM	ETP
Valve Seats	Viton	Buna or EPDM	Teflon or PFA
Pneumatic Actuator	Double Acting	Spring Return	Stainless Steel Body
Magnetic Shuttle	170°F	195°F	

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