

PumpArray with FLUMI Touch Panel Interface



The Global FIA PumpArray with FLUMI touch panel machine interface is a convenient, compact, high-performance, pump solution for flow synthesis applications. Global FIA's positive displacement millIGAT pumps provide smooth, continuous flow using four coordinated pistons. The PumpArray modular design allows user-specified configurations to meet application needs. Two models are offered. The PumpArray-6 accommodates up to six pumps for flow synthesis. The PumpArray-8 provides eight pumps.

The PumpArrays can be equipped with any of the milliGAT variants. The recently expanded range of milliGAT pumps is summarized in the following table.

P/N	Description	Flow, mL/min	P _{Max} ¹ , psi	Wetted materials
MG-1	Standard low flow	0.00024 – 10	100	PTFE, Sapphire, Valcon-E3 & P, Viton ²
MG-2	Standard high flow	0.00240 – 42	100	PTFE, ZrO2 (Ceramic), Valcon-H2
MG-5	Smooth flow	0.000024 – 0.8	100	PTFE, Sapphire, Valcon-E3 & P, Viton ²
MG-1-CER-E3	Low flow, high pressure	0.00024 – 10	500 (@ 5mL/min)	PTFE, ZrO2 (Ceramic), Valcon-E3
MG-1-CER-XT	Low flow, high pressure	0.00024 – 10	500 (@ 5mL/min)	PTFE, ZrO2 (Ceramic)
MG-2-CER-E3	High flow, high pressure	0.0024 – 42	200 (@ 25mL/min)	PTFE, ZrO2 (Ceramic), Valcon-E3
MG-2-CER-XT	High flow, high pressure	0.0024 – 42	200 (@ 25mL/min)	PTFE, ZrO2 (Ceramic)
MG-2-CER-PK	High flow, high pressure	0.0024 – 42	200 (@ 25mL/min)	PTFE, ZrO2 (Ceramic), PEEK

1. Further details on pump pressure testing available on request
2. Kalrez available upon request

Where required, two-inch pump stand-offs can be installed to reduce heat transfer from the pump motor to the pump head.

Serial communication with the PumpArray is via a USB 2.0 type B connector. An internal USB hub provides two external USB 2.0 type A connectors to connect to external peripherals. Six multiport digital IO connections provide a means of interfacing other devices to the pump station such as level switches. The PumpArray is also equipped with one or two temperature controllers that provide PID temperature control for external heaters or coolers.

The PumpArray can be operated from the intuitive FLUMI touch panel interface. This interface allows the user to either start and stop all the pumps at once or to control each pump individually. It also interfaces to the heater controllers or Valco Cheminert valves. Alternatively, the PumpArray can be controlled from any serial control line capable of issuing ASCII commands.

For further details and Technical support for the PumpArray contact:

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