



## Technical Note

---

ExiGo™ Manifold

## ExiGo Manifold: maximizing the flexibility of your microfluidic setup

The ExiGo manifold is a specialised microfluidic channel selector designed to work with an ExiGo pump. The manifold allows the ExiGo pump to direct fluid to one of three microfluidic channels\* at a time. Accurate flow-switching and low dead volume provide exceptional performance.

The ExiGo Manifold can be programmed to automatically switch between fluidic channels using the SmartFlo PC software.

The ExiGo Manifold is an extremely useful tool for applications which require:

- Automatic refilling of the syringe
- Asynchronous injection of a reagent in multiple channels
- Continuous perfusion over long periods of time\*\*

\*Each channel can be used as input or output.

\*\*Additional equipment may be required.



ExiGo with manifold



Manifold

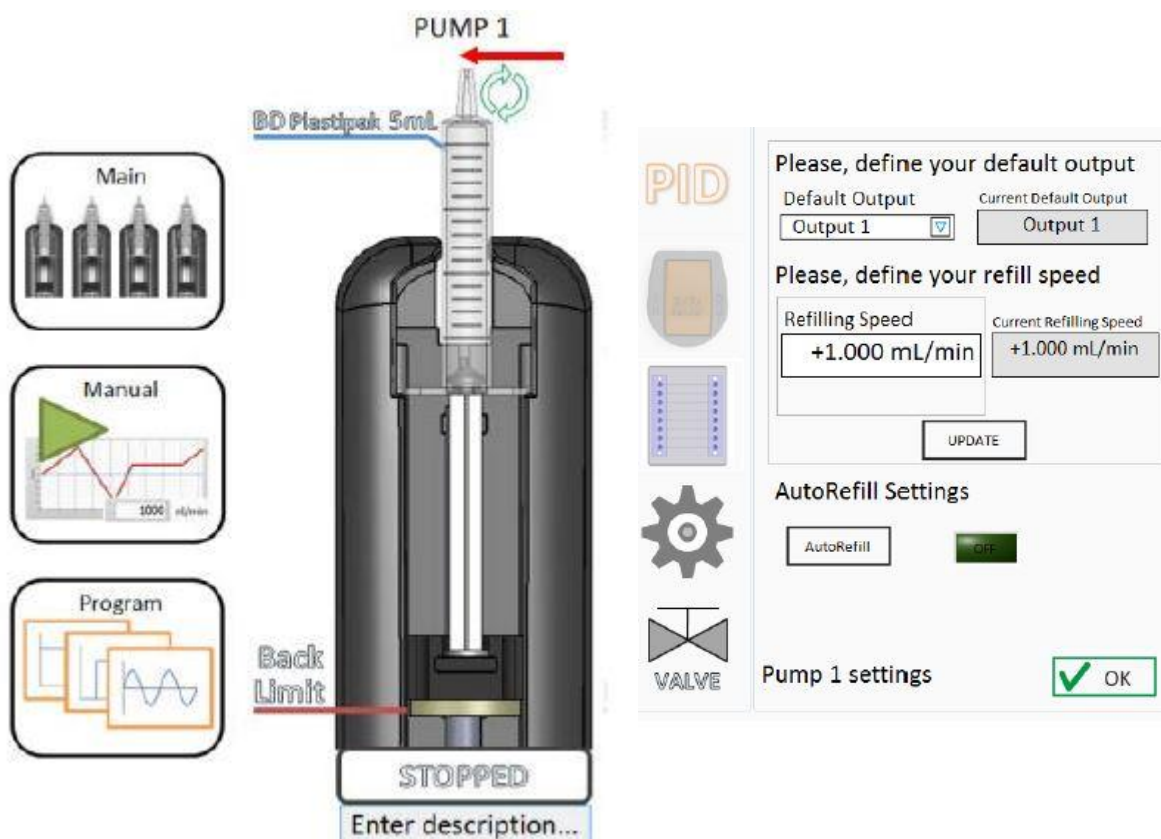
### Performance and Technical Specifications:

Technical specifications				
Operation	Plug and play connection to the ExiGo pump			
Features	Allows the user to direct the fluid to three independent ports			
Flow ranges	Perfusion: 10 nL/min–3 mL/min (same as ExiGo pump)			
	Refill step: max 20 mL/min (limited by syringe size)			
Connections	Input port	Channel 1	Channel 2	Channel 3
		1/4-28 UNF	6-40 UNF	6-40 UNF

Fluidics			
	Input to channel 1	Input to channel 2	Input to channel 3
Dead volume	~41 µL	~62 µL	6-40 UNF
Materials	PEEK, Delrin®		
Media temperature	10–50°C		
Operating pressure	-0.97 to 2.2 bar		

General characteristics	
Dimensions	112 mm (L) x 86 mm (W) x 45 mm (H)
Casting material	ABS
Weight	0.3 kg
Power requirements	24V DC, via cable to ExiGo

### SmartFlo App: Manifold Settings



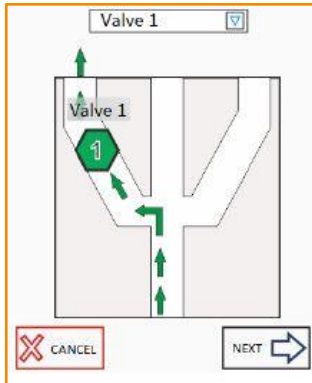
PC SmartFlo app PC: auto-refill option active

PC SmartFlo app: manifold settings

Green recirculation symbol is visible on the “main” screen

Different setting options are available for the ExiGo manifold

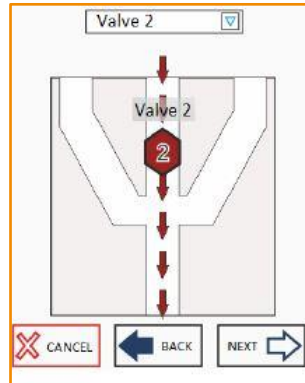
Select your output valve



PC SmartFlo app: output channel selection

During automatic refill, the default output channel can be selected from the three available channels

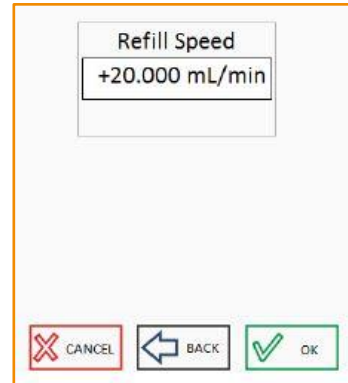
Select your refill valve



PC SmartFlo app: refill channel selection

During automatic refill, the default refill channel can be selected from the three available channels

Select your refill speed



PC SmartFlo app: refill flow rate setting

Different flow rates can be set by the user for refill operation