

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:

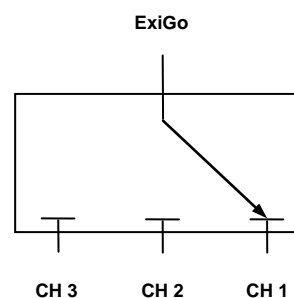
- Automatic refilling of the syringe
- Asynchronous injection of a reagent in multiple channels
- Continuous perfusion over long periods of time**

* Each channel can be used as input or output

**Additional equipment may be required



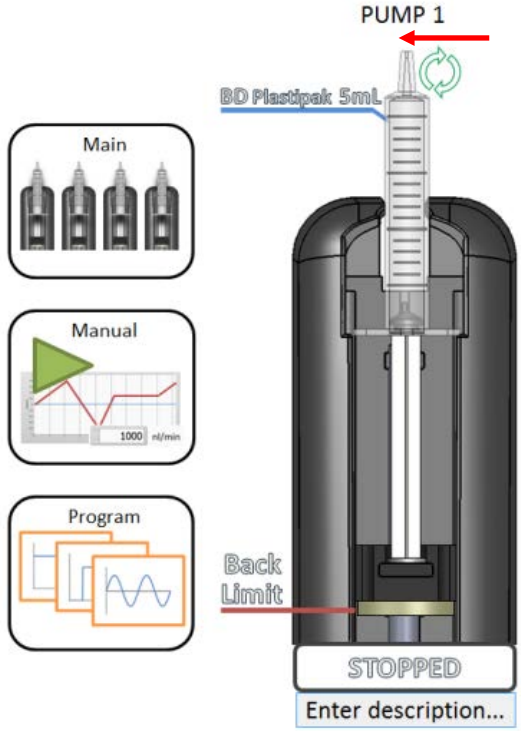
ExiGo™ Manifold



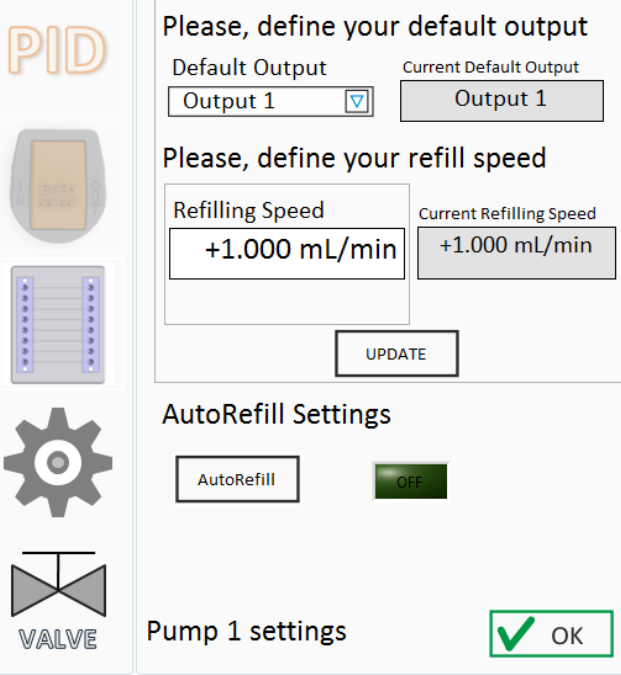
Manifold Functional Schematic

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:	<i>Input Port</i>	<i>Channel 1</i>	<i>Channel 2</i>	<i>Channel 3</i>
	1/4-28 UNF	6-40 UNF	6-40 UNF	6-40 UNF
Fluidics				
	<i>Input to Channel 1</i>	<i>Input to Channel 2</i>	<i>Input to Channel 3</i>	
Dead Volume:	~41 µL	~62 µL	~62 µL	
Materials:	PEEK, Delrin®			
Media Temperature:	10 - 50 °C			
Operating Pressure:	-0.97 to 2.2 bar			
General Characteristics				
Dimensions:	112mm (L) x 86mm (W) x 45mm (H)			
Casing Material:	ABS			
Weight:	0.3 Kg			
Power Requirements:	24V DC, Via cable to ExiGo			

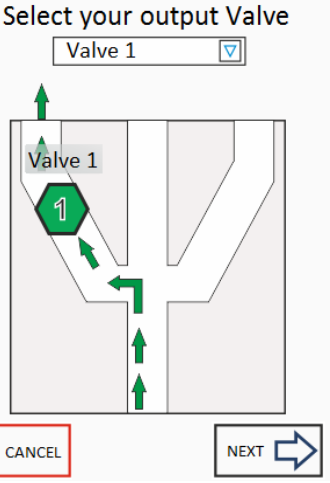
SmartFlo App: Manifold Settings



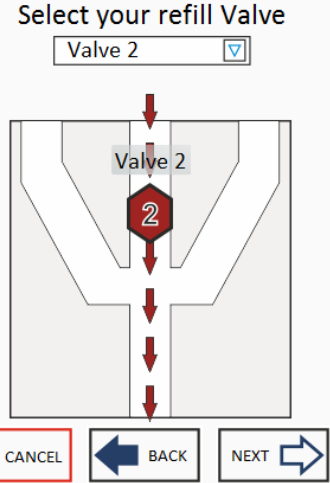
PC SmartFlo App PC: Auto-refill Option Active
Green recirculation symbol is visible on the "Main" screen



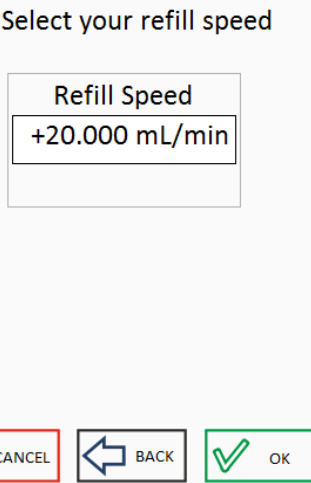
PC SmartFlo App: Manifold Settings
Different setting options are available for the ExiGo manifold



PC SmartFlo App: Output Channel Selection
During automatic refill, the default output channel can be selected from the three available channels



PC SmartFlo App: Refill Channel Selection
During automatic refill, the default refill channel can be selected from the three available channels



PC SmartFlo App: Refill Flow Rate Setting
Different flow rates can be set by the user for refill operation