MUX INJ
6-PORT/2-POSITION BIDIRECTIONAL VALVE
ELVEFLOW.COM/MICROFLUIDIC-FLOW-CONTROL-PRODUCTS/FLOW-CONTROL-SYSTEM/FLOW-MULTIPLEXER/

MAKE LONG TERM EXPERIMENTS EASIER AND MORE RELIABLE

The Recirculation Valve is a **bidirectional 6-port/2 position** valve allowing to perform switches between two set-up configurations. Applications are **stable unidirectional fluid recirculation** and **sample injection**
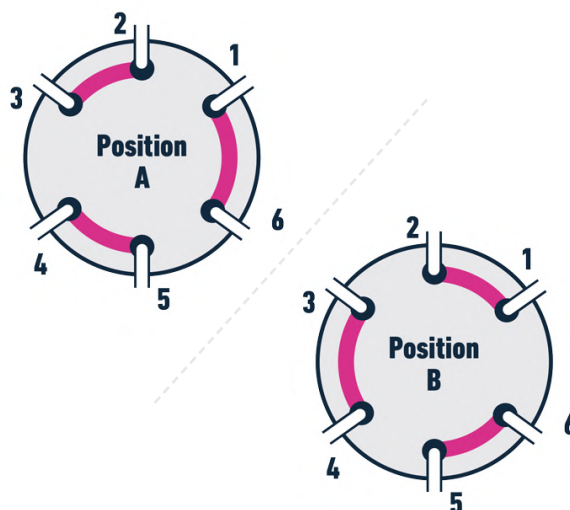
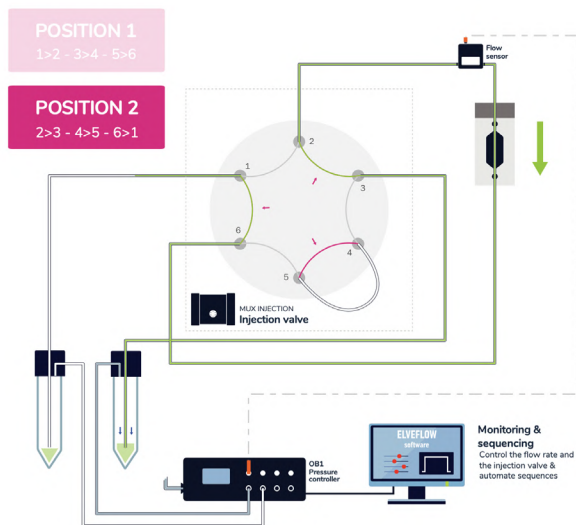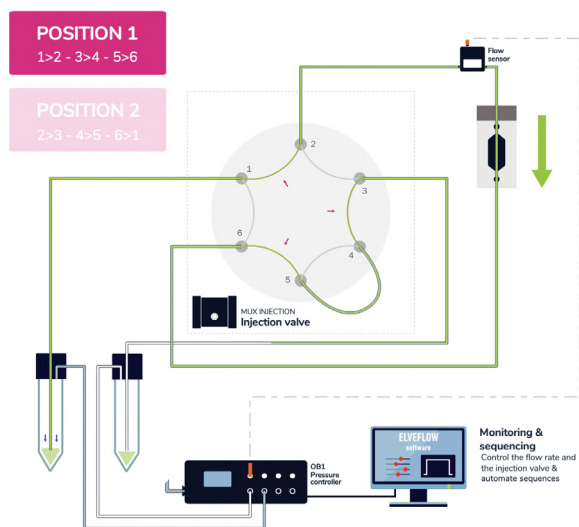✔ **PRECISE VOLUME INJECTION**

✔ **LONG RUN RECIRCULATION**

UNIQUE PERFORMANCES

> Low port-to-port volume: **660 nL**

> Port-to-port switching time: **100 ms**

> **High chemical compatibility** (wetted materials: PCTFE and UHWMPE)

> No sample **cross-contamination** & **no backflow**

APPLICATIONS

> Cell culture on chip

> Drug screening

> Toxicity tests

> Stem cells assays

> Organ on chip

> SPR or TIR imaging coupled with microfluidics

TECHNICAL SPECIFICATIONS

MUX INJ		SPECIFICATIONS
Performances	Valves actuation time	100 ms
	Max. supported pressure	9 bar (125 PSI)
Power supply	Input voltage range, AC	100 V to 240 V
	AC supply frequency	50 Hz to 60 Hz
	Input current, AC	1 A
	Power consumption	35 W
	Safety	IEC/EN 61010-1: 2001
	Shutting down power supply	disconnect AC/DC adapter
Mechanical specifications	Valve type	6 positions / 7ports or 10 positions / 11 ports rotative valve
	Input/output connectors	1/16 or 1/8 fitting-less tubing connection system
	Operating temperature	10 °C to 40 °C
	Operating humidity	20 to 80 %
	Wetted materials	PCTFE and UHWMPE
Software	Computer specifications	USB 2.0 port, Intel Pentium II 500 MHz, 1 Go Hard Disk space, 2 Go RAM Windows XP and newer, 32/64 bit. LabVIEW® 2011 is required when using LabVIEW® libraries.
	Connection type	USB
	Provided elements	C++, Python, MATLAB® and LabVIEW® libraries

MUX INJ DIMENSIONS without connectors (length x width x height): 160 x 76 x 117 mm