

PRODUCTS
**FLOW CONTROL
SYSTEMS**



MUX INJ

6-PORT/2-POSITION BIDIRECTIONAL VALVE

ELVEFLOW.COM/MICROFLUIDIC-PRODUCTS/MICROFLUIDICS-FLOW-CONTROL-SYSTEMS/MUX-INJECTION/



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 setup configurations. Applications are: **stable unidirectional fluid recirculation** and **sample injection**.

✓ **PRECISE VOLUME INJECTION**

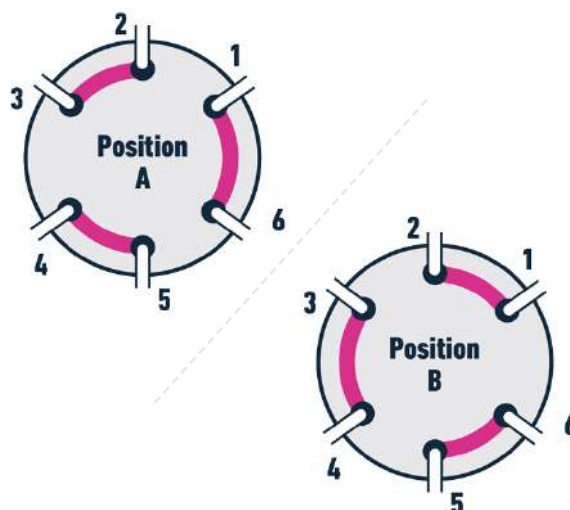
✓ **LONG RUN RECIRCULATION**

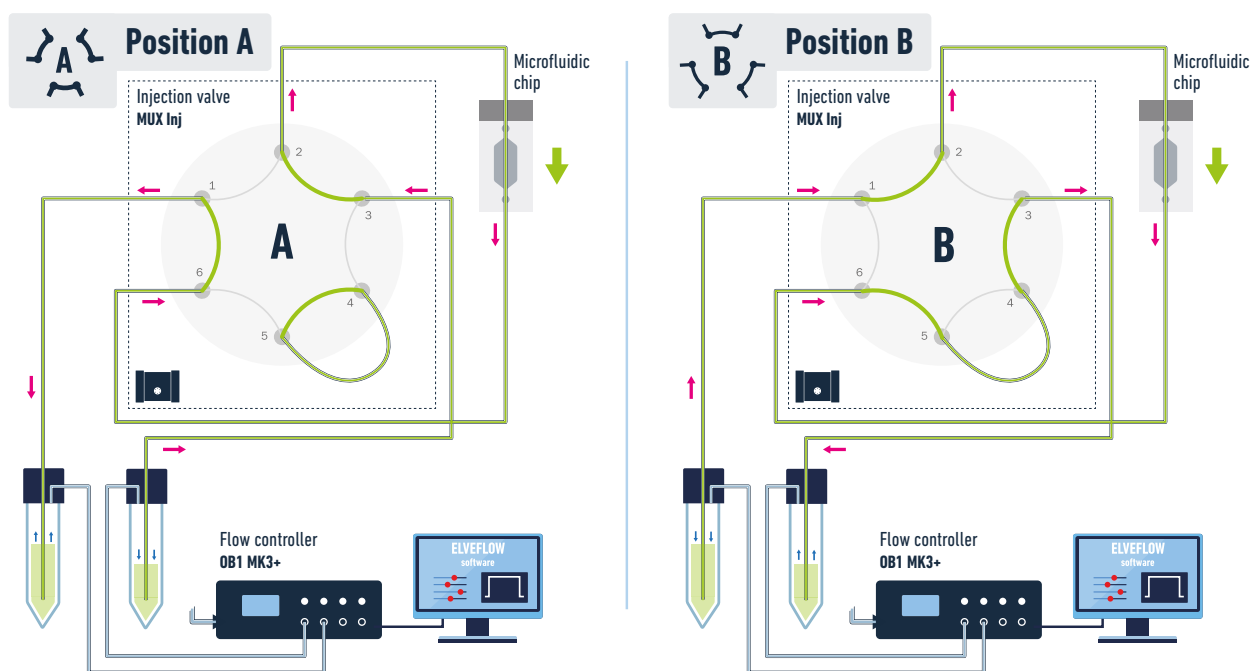
UNIQUE PERFORMANCES

- > Low port-to-port volume: **660 nL**
- > Port-to-port switching time: **100 ms**
- > **High chemical compatibility** (wetted materials: PCTFE and UHMWPE)
- > 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 ports / 2 positions 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 UHMWPE |
| 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

Non-contractual information, may be changed without notice.