MUX DISTRIB
10-WAY BIDIRECTIONAL VALVE
ELVEFLOW.COM/MICROFLUIDIC-FLOW-CONTROL-PRODUCTS/FLOW-CONTROL-SYSTEM/FLOW-MULTIPLEXER/

A ROTATIVE VALVE DESIGNED TO EASILY EXECUTE FAST MEDIUM SWITCHES

The Sequential Injection Valve is a **bidirectional 11-port/10 way** which can be used as a selector to inject sequentially one liquid sample into **ten different lines** or ten liquid samples into one line.
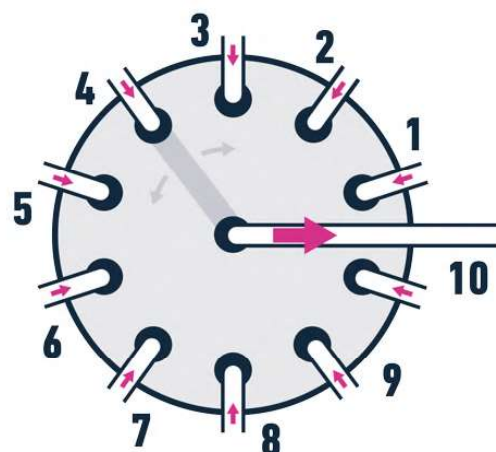
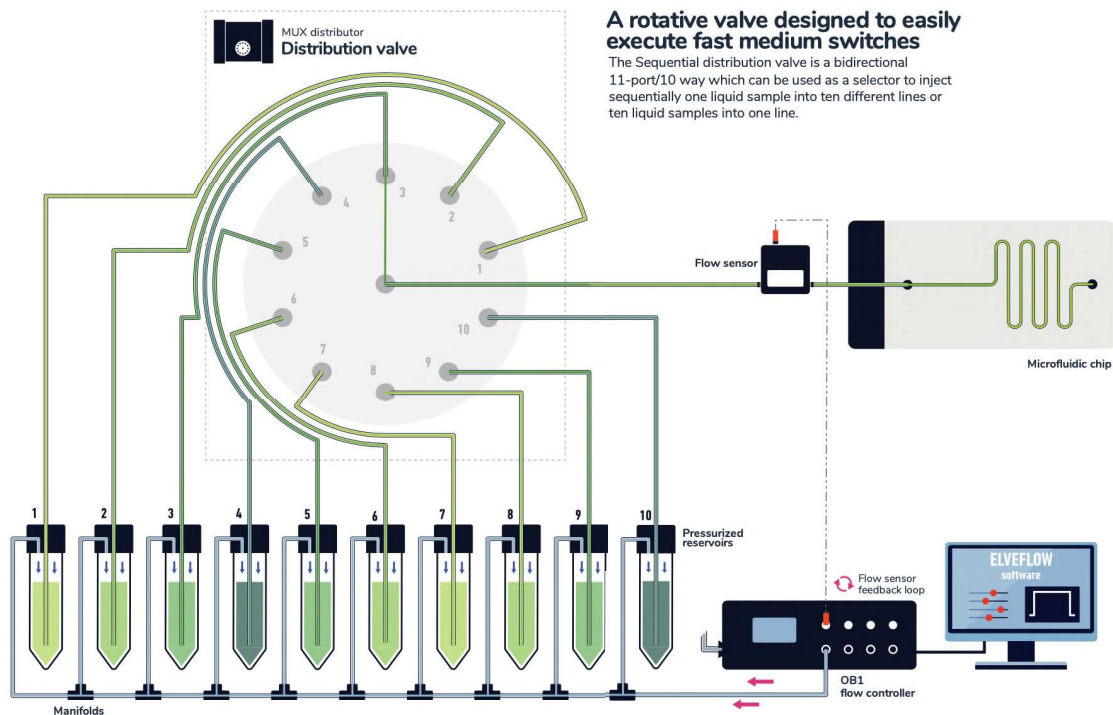✔ **INJECTION OF UP TO 10 LIQUIDS**

✔ **NO CROSS CONTAMINATION**

UNIQUE PERFORMANCES

> Typical mechanical response time for port-to-port movement **280 ms**

> Stands up to **9 bar**

> Low total internal volume: **11.6 µL**

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

APPLICATIONS

> Cell culture on chip

> Cell response to medium change

> Drug screening

> Toxicity tests

> Stem cells assays

> Reagent switch for flow chemistry

MUX distributor
Distribution valve

A rotative valve designed to easily execute fast medium switches
The Sequential distribution valve is a bidirectional 11-port/10 way which can be used as a selector to inject sequentially one liquid sample into ten different lines or ten liquid samples into one line.

Flow sensor

Microfluidic chip

Pressurized reservoirs

Manifolds

Flow sensor feedback loop

OB1 flow controller

ELVEFLOW software

TECHNICAL SPECIFICATIONS

MUX DISTRIB		SPECIFICATIONS
Performances	Valves actuation time	280 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	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 DISTRIB DIMENSIONS without connectors (length x width x height): 160 x 76 x 117 mm

Non-contractual information, may be changed without notice.