MUX DISTRIB
12-WAY BIDIRECTIONAL VALVE
ELVEFLOW.COM/MICROFLUIDIC-PRODUCTS/MICROFLUIDICS-FLOW-CONTROL-SYSTEMS/MUX-DISTRIB/

Included in our
SEQUENTIAL FLUID INJECTION PACK
ELVEFLOW.COM/MICROFLUIDIC-PRODUCTS/MICROFLUIDICS-APPLICATION-PACKS/
SEQUENTIAL-FLUID-INJECTION-PACK/

A ROTARY VALVE DESIGNED TO EASILY EXECUTE FAST MEDIUM SWITCHES

The Sequential Injection Valve is a **bidirectional 13-port/12 way** which can be used as a selector to inject sequentially one liquid sample into **twelve different lines** or twelve liquid samples into one line.

✓ **INJECTION OF UP TO 12 LIQUIDS**
✓ **NO CROSS CONTAMINATION**

UNIQUE PERFORMANCES

> Typical mechanical response time for port-to-port movement **156 ms**

> Easy setup: standard **¼-28 fluidic fittings**

> Lowest internal volume: **3.5 µL**

> **High chemical compatibility** (wetted materials: PCTFE, PTFE)

> Possibility to chose the **sense of rotation**

APPLICATIONS

> Cell culture on chip

> Cell response to medium change

> Drug screening

> Toxicity tests

> Sensor testing & calibration

> Reagent switch for flow chemistry
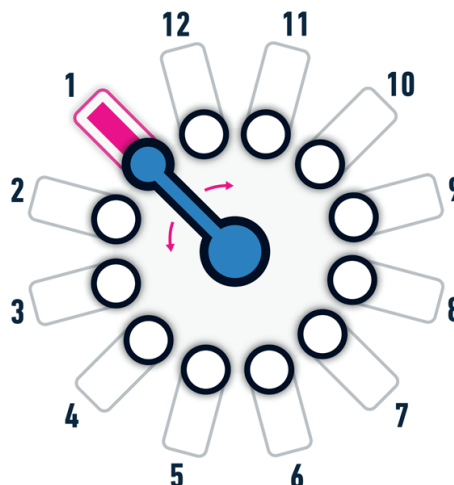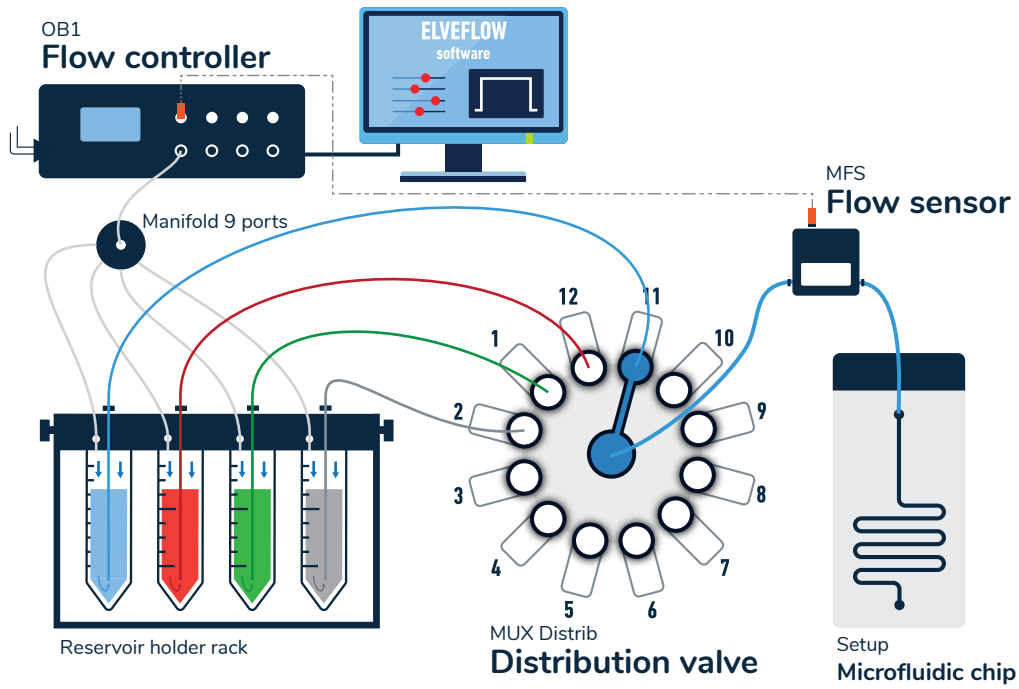
TECHNICAL SPECIFICATIONS

MUX DISTRIB		SPECIFICATIONS
Performances	Port to port switching time (ms)	156 ms
	Max. supported pressure	7 bar
	Internal diameter	0.5 mm
Power supply	Input voltage range, AC	100 V to 240 V
	AC supply frequency	50 Hz to 60 Hz
	Max current consumption	2A peak
	Power consumption (max)	36 W
	Power supply voltage	18-24V DC
Mechanical specifications	Valve type	12 positions / 13 ports rotative valve
	Fluidic connectors	Standard 1/4-28 UNF, flat-bottom
	Operating temperature	5 °C to 40 °C
	Operating humidity	20-70% non condensing
	Wetted materials	PCTFE and PTFE
	Dead volume[1]	None
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

(1) Volume that is stuck in the system (dead end), which is not clearly swept and relies on diffusion to clear out

MUX DISTRIB DIMENSIONS without connectors (length x width x height): 133 x 156 x 133 mm

Non-contractual information, may be changed without notice.