

MUX DISTRIB 12-WAY BIDIRECTIONAL VALVE

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Included in our
SEQUENTIAL FLUID INJECTION PACK

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A ROTARY VALVE DESIGNED TO EASILY EXECUTE FAST MEDIUM SWITCHES



The Sequential Injection Valve is a **bidirectional 13-port/12 way**, which can control the sequential injection of one solution into twelve different lines or twelve solutions into one line.

✓ **INJECTION OF UP TO 12 LIQUIDS**

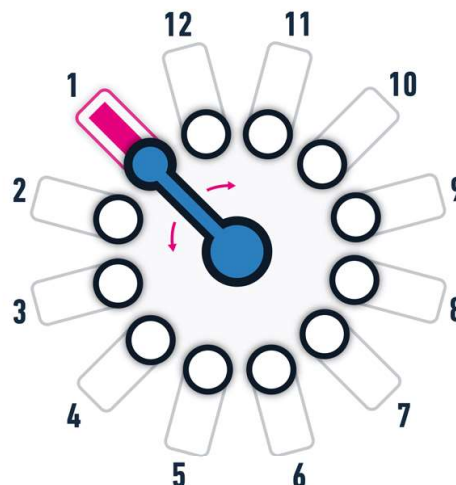
✓ **NO CROSS CONTAMINATION**

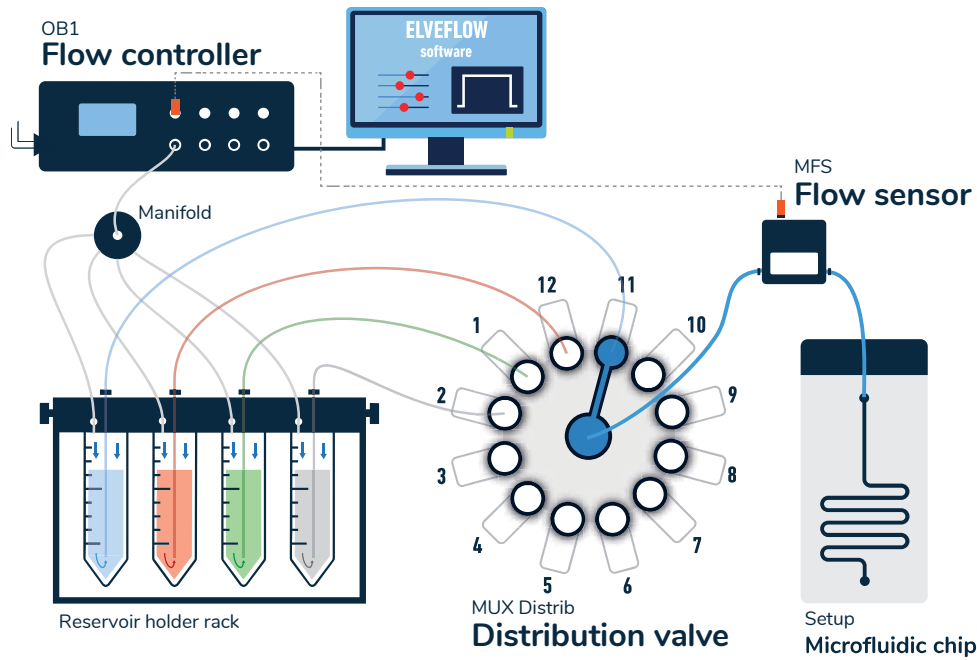
UNIQUE PERFORMANCES

- > Typical mechanical response time for port-to-port movement **156 ms**
- > Easy setup: standard $\frac{1}{4}$ -28 fluidic fittings
- > Lowest internal volume: **3.5 μ L**
- > **High chemical compatibility** (wetted materials: PCTFE, PTFE)
- > Possibility to choose 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
	Maximum valve update rate	2 Hz
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

Non-contractual information, may be changed without notice.

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