



# PRODUCTS FLOW CONTROL SYSTEMS



# **MUX SERIES**

# **FLOW SWITCH MATRICES**

ELVEFLOW.COM/MICROFLUIDIC-FLOW-CONTROL-PRODUCTS/FLOW-CONTROL-SYSTEM/FLOW-MULTIPLEXER

# **3 UNIQUE FLOW SWITCH MATRICES** TO AUTOMATE FLOW HANDLING

**CONTROL UP TO 16 VALVES INDEPENDENTLY** 

**SMALL FOOTPRINT** 

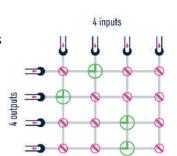


### **MUX CROSS CHIP**

Stop the flow in microfluidic devices

- Rocker peek valves
- Plug & play programmable flow stop
- Complete equilibrium, stops flow in 100ms
- Ultra low volume injection
- Internal/external trigger
- Fluidic connector: 10-32 UNF

APPLICATIONS: Instantaneous stop flow, small sample injection & sample premixing WETTED MATERIAL: POM. Viton, PEEK, FKM





# **MUX FLOW SWITCH**

Drug switch into microdevices

- Rocker peek valves & PEEK manifold
- Plug & play usb software
- No samples cross-contamination & no backflow
- Flexible: from 4 to 256 valves
- Internal/external trigger
- Fluidic connector: 1/4-28 UNF

APPLICATIONS: Drug, reagent & cell medium switch for cell biology and flow chemistry WETTED MATERIAL: PEEK, FKM





# **MUX QUAKE VALVE**

Open & close bilayer PDMS valves

- Plug & play programmable valve sequence
- Fast valve switch
- Fine valve position tuning
- Flexible: from 16 to 256 peek valves
- Internal/external trigger
- Fluidic connector: 10-32 UNF

APPLICATIONS: PDMS microvalves & micropumps and cell confinement device control WETTED MATERIAL: POM, Viton, PEEK, FKM

TECHNICAL SPECIFICATIONS

MUX SERIES

MUX SERIES		CROSS CHIP	FLOW SWITCH MATRIX	QUAKE VALVE
Performances	Valves actuation time	20 ms		
	Max. supported pressure	2 bar (29 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	2/2-way solenoid valve		3/2-way solenoid valve
	Input/output connectors	10-32 UNF	1/4-28 UNF	10-32 UNF
	Wetted materials	POM, Viton, PEEK, FKM	PEEK, FKM	POM, Viton, PEEK, FKM
	Operating temperature	10 °C to 40 °C		
	Operating humidity	20 to 80 %		
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		

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