



OpenSpritzer Specifications

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Valve	114mA Fast switching Solenoid MHE2-MS1H-32G-M7 Festo Valve
Power supply	24V DC supply for solenoid
Control	1mA/5V Internally generated pulses from Arduino Nano microcontroller/externally delivered TTL pulses via BNC connector
Foot switch	Yes
Shortest command pulse	2ms (to reliably generate a detectable puff) • in comparison with 4ms for Picospritzer III
Integrated Pressure regulator	Festo LRP-1/4-4
Puff pressure	0-4 bar
Line Pressure	1.4 bar
Precision	Millisecond precision with highly conserved puff volumes
Tested Use-Cases	 Evoking and suppression of action potentials In vitro whole cell patch clamp recordings Microinjections of infectious agents Viral delivery of opsins for optogenetics Single molecules to whole bacteria Inoculate brain tissue slices with BCG-GFP In rodent and human brain slices

Full DIY build-description in https://github.com/BadenLab/Openspritzer

Contact NeuroGig on info@neurogig.com