

MPPI-3 Pressure Injector



The Milli-Pulse Pressure Injector, MPPI-3 produces gas pressure pulses to an injection pipette. The unit offers precise linear control of both pressure and pulse duration. Alternatively, an external source such as a signal generator can be used to control the pulse width and rate.

The MPPI-3 provides three methods to initiate the pressure pulse, in either Trigger or Gated mode:

- · Front panel push buttonswitch
- External TTL input signal
- · Optional footswitch

Continuous output allows fine-tuning of the flow rate and clearing clogs from pipettes. Maximum input pressure is 100 psi (690 kPa). The output pressure is adjustable from 0 up to 100 psi. An internal gas filter increses for reliability and ease of maintenance.

The MPPI-3 has an input for an optional Back Pressure Unit (BPU). This option prevents any reverse flow in a pipette caused by capillary action after a pulse by providing an adjustable (0-to-15 psi or 0-to-100 kPa) back pressure.

The new MPPI-3 case allows stacking of multiple controllers. The compact size and low cost makes the MPPI-3 an ideal choice for your pressure injection needs.

Optional Accessories for the MPPI-3

- Back Pressure Unit (BPU)
- Micropipette Holder Kit
- Footswitch

Specifications

100 psi (0 to 690 kPa)
Regulated 0 to 100 psi (0 to 690 kPa) (Maximum output dependents upon input pressure)
Four user-settable ranges: 5 ms to 100 ms, 5 ms to 100 ms, 5 ms to 10 s, 5 ms to 60 s Minimum duration limited by the pneumatic solenoid valve to approximately 5 ms
Via front panel 10-turn calibrated dial
0.4% of full scale (crystal controlled)
0.4% of full scale (1% over the life of the valve)
Front panel analog gauge: 0 to 100 psi (0 to 690 kPa)
100 million cycles
Continuous flow, Timed Pulse Duration
flow control, Gated flow control
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Front panel pushbutton switch, external TTL input signal, footswitch or other type of manual switch Allows monitoring of the valve control and the daisy-chaining of multiple controllers, as well as synchronizing the injection pulse with micromanipulators and piezo cell penetrators 1/8"(3.18 mm) Barbed hose fittings 1/16"(1.59 mm) Barbed hose fitting Nitrogen or clean dry compressed air (Internally-mounted input gas filter
Front panel pushbutton switch, external TTL input signal, footswitch or other type of manual switch Allows monitoring of the valve control and the daisy-chaining of multiple controllers, as well as synchronizing the injection pulse with micromanipulators and piezo cell penetrators 1/8"(3.18 mm) Barbed hose fittings 1/16"(1.59 mm) Barbed hose fitting Nitrogen or clean dry compressed air (Internally-mounted input gas filter provided) Power Module: 100 to 240 VAC, 50 to 60 Hz, 0.5 A (Direct Power Connection: 12





