

LOCTITE

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Product Description Sheet

Micro Needle Dispense Valve

Part # 98084

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PRODUCT DESCRIPTION

The LOCTITE® Micro Needle Valve is a pneumatically operated, normally closed, adjustable opening, needle and seat valve which is designed in conjunction with a pressure-time dispense system. A pressure-time dispense system is made up of a controller/timer, a dispense valve, and a pressure reservoir. The controller directs the pressurized air to the actuator of the valve through the air inlet port for a pre-determined period of time. The resulting action is to retract the needle rod assembly from the seat inside the dispensing tip allowing material to flow from the material inlet to the dispensing tip. At the end of the cycle the controller relieves the input air pressure which allows the spring to return the needle rod back to its position to close the material path.

PRODUCT FEATURES

- Dispenses low to medium viscosity UV curing products down to a fraction of a microliter.
- Short opening stroke provides extremely fast, positive shut-off
- External stroke control adjustment makes it easy for operator to fine tune shot sizes.
- Compact design allows for mounting flexibility and easy integration into automated applications.
- Capable of connecting to syringe barrels as small as 5ml to 30ml
- The Luer fitting can be changed to a tube fitting and any size pressure reservoir can be used.



Technical Data

- Length – 5" approx. (127 mm)
- Diameter – 1.1 inches (28.5 mm)
- Pneumatic supply required: Filtered 10 µm, oil-free, non-condensing. min. 60 psi (4.8 Bar) max. 100 psi (7 Bar)
- Air Inlets – 10-32 UNF-2B
- Port Size: Fluid Inlet – 1/8" N.P.T.
- Fluid Outlet: Male Luer Lock
- Max dispensing pressure: 100 psi (7 bar)
- Weight 8 oz. (227 g.)
- Wetted Parts: 303 Series Stainless Steel, Teflon

Recommended Spare Parts

Description	Part Number
• Actuator assembly	98096
• Valve body assembly	98097
• Luer adapter assembly kit	98092
• Valve needle rod kit	98091
• Polypak seal	98093

If required air quality is not achieved, install a Loctite® filter regulator.
Accessory Order No. 985397.

NOT FOR PRODUCT SPECIFICATIONS
PLEASE CONTACT LOCTITE CORPORATION FOR ASSISTANCE: 1-800-LOCTITE (1-800-562-8483)

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