

# ASYMTEK DV-09 Needle Valve

Consistent, Controllable Dispensing for Demanding Low-Viscosity Fluids

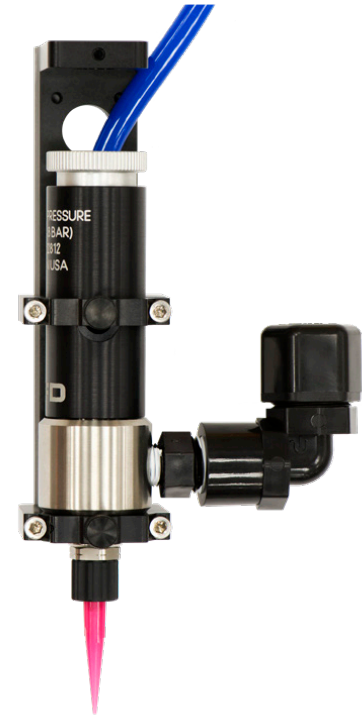
## Features and Benefits

- Produces sub-microliter dots to continuous lines
- Minimizes stagnant or trapped fluid, ensuring clean shutoff and no-drip performance at the end of each dispense cycle
- High chemical resistance for broad fluid compatibility
- Interchangeable needle tips for process flexibility
- Normally closed, air-actuated operation for consistent dispensing
- Enables precise control of dispense flow rate
- Supports a wide range of fluid formulations and application requirements

**The DV-09 is engineered for precise dispensing of low-viscosity fluids across a wide range of applications**—from sub-microliter dots to continuous bead patterns. Its unique adjustable precision piston stroke allows accurate control of fluid flow, enabling users to optimize dispensing performance for specific processes.

**A low internal cavity design minimizes stagnant or trapped fluid**, ensuring clean shutoff at the end of each dispense cycle. This results in a consistent bead finish while eliminating needle drip between cycles. The valve's high chemical resistance and broad fluid compatibility provide flexibility for a wide range of formulations, supporting both current and future dispensing requirements.

**The DV-09 is a normally closed, air-actuated needle valve designed for consistent, repeatable performance.** Users can fine-tune dispensing results by adjusting stroke control, fluid pressure, actuation timing for dot applications, or robotic speed for continuous lines. A wide selection of interchangeable



DV-09 Needle Valve

needle tips further enhances precision and process customization. Built for durability, the DV-09 supports extended intervals between preventive maintenance. Critical components are manufactured from type 303 passivated stainless steel to ensure strength and corrosion resistance. The valve incorporates spring-loaded Teflon® needle packings, which automatically compensate for wear and reduce maintenance downtime.

For easy servicing, the fluid path is fully accessible through a simple disassembly of the lower section, allowing thorough cleaning of all wetted parts.

# DV-09 Needle Valve

## Specifications

Size	108 x 27 mm (4.25 x 1.06 in.)
Weight	170 g (6 oz.)
Fluid inlet thread	1/8 NPT Female
Fluid outlet thread	Male luer lock
Free-flow area	1.37 mm <sup>2</sup> (.002 in. <sup>2</sup> )
Maximum fluid pressure	2067 kPa (300 psi) [21 bar]
Air pressure required	482 kPa (70 psi) [4.8 bar]

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## Valve Construction

Piston and piston rod	Type 303 stainless steel
Cylinder body	Hard-coated aluminum
Wetted parts	Type 303 stainless steel, delrin, nylon

## Valve Attachments

Needle	Type 303 stainless steel
Brush	Soft nylon for low-viscosity fluid