

# Micro shot needle valves for rapid deposits

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TS5440 Series valves dispense very precise deposits over a wide range of shot and bead sizes due to a minimal dead fluid zone. An external stroke control adjustment to fine tune shot sizes. Easy to maintain, with little or no downtime. The compact design and easy-mount threaded hole allows for easy integration into automated applications.

The TS5420 Adjustable Needle Valve is a pneumatically triggered single-acting valve that can be used with an internal spring close (single acting) or may be connected for air closing without the spring (double acting). The TS5440 Microshot Needle Valve, with its needle closing the fluid path directly on the cannula inside the needle body, can dispense very precise deposits down to 0.0005 cm. The TS5440 valve's wetted parts include FDA-compliant 303 Stainless Steel Material.



## Features

- Compact size and weight
- Adjustable fluid flow control
- Zero dead fluid zone
- High pressure fluid input to 300psi
- Positive shutoff
- Cycle rate exceeds 500/minute
- Low-maintenance design



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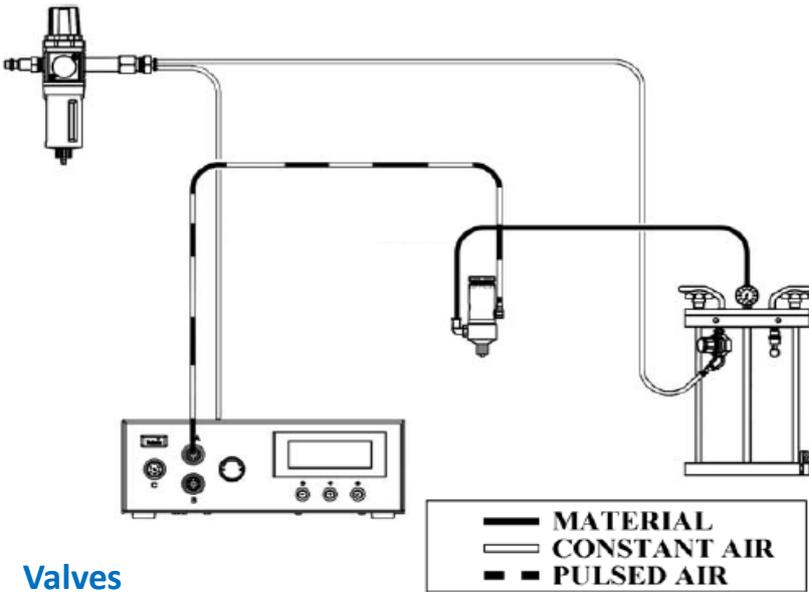
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# Needle valves



The complete application system includes the TS5440 Series air-operated valve, TS500R digital timed controller, a choice of fluid reservoirs and a luer lock dispense tip.

Experienced expert technical assistance and high quality products ensure productive, hassle-free performance. Adhesive Dispensing Ltd offers a full range of reliable dispensing systems to meet your specific application requirements.



## Valves

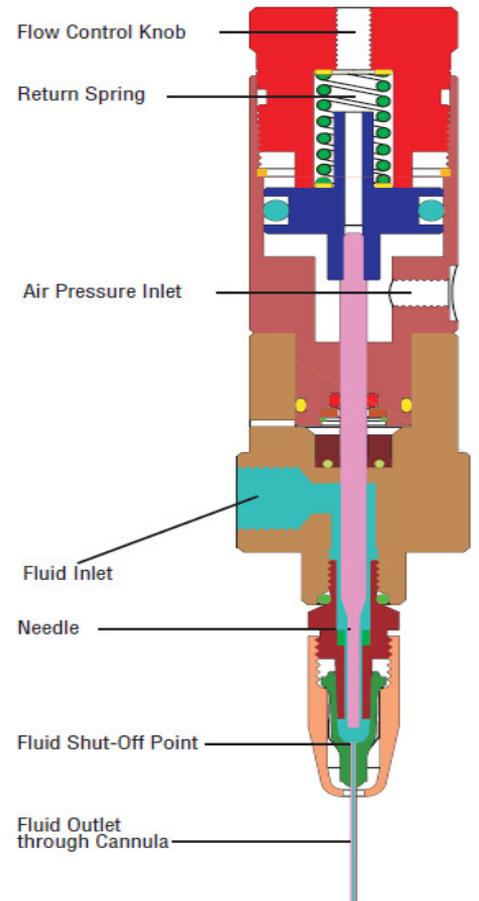
The TS5540 Series valves are used with TS500R, TS350 or TS250 controllers or J2200 Series automation systems for repeatable outputs of low to medium viscosity fluids. Each valve can be calibrated with the stroke control knob for adjustment to flow control. The amount dispensed depends on valve open time, fluid pressure, fluid viscosity, flow adjustment and luer lock tip size.

## Controllers

The amount dispensed depends on valve open time, fluid pressure, fluid viscosity, flow adjustment and luer lock tip size. Valve open time is the main control of deposit size. The controller puts push-button adjustment of valve open time at the valve. Select the TS500R for digital display, I/O port for link to PLC, timer memory and low level air alarm. On the fly adjustability. Use TS350 or TS250 for more basic control.

## Fluid Reservoirs

Our reservoirs are supplied with precision regulators to ensure consistent fluid pressure to each valve. Tanks available in 0.5, 1.0, 2.0, 5.0 and 19.0 litre capacities. TSI Retainer Systems and Cartridges available from 2.5 to 32 ounces (75cc to 950cc). The TS1215 tank accepts a 500g bottle of cyanoacrylate. Our tips range from 14 to 34 gauge in lengths of 1/4" to 1.5".



VALVE	SIZE AND WEIGHT	WETTED PARTS	MAXIMUM FLUID PRESSURE	ACTIVATION PRESSURE	CONNECTIONS	MOUNTING	RECOMMENDED VISCOSITY RANGE
TS5420	L: 4.4" (112mm) D: 1.12" (28mm) Weight: 0.3lb (136g)	303 SS, Anodized Al, Teflon®, EPR	300 psi (20.7 bar)	70 psi (4.8 bar) Minimum	Inlet: 1/8" NPT Outlet: Male Luer Lock	1/4"-20UNC-2B	1-100k cps
TS5420SS	L: 4.4" (112mm) D: 1.12" (28mm) Weight: 0.5lb (227g)	303 SS, Teflon®, EPR	300 psi (20.7 bar)	70 psi (4.8 bar) Minimum	Inlet: 1/8" NPT Outlet: Luer Lock	1/4"-20UNC-2B	1-100k cps
TS5440	L: 5.0" (127mm) D: 1.12" (28mm) Weight: 0.5lb (227g)	303 SS, Teflon®	100 psi (6.9 bar)	70 psi (4.8 bar) Minimum	Inlet: 1/8" NPT Outlet: Taper w/Luer Cap	10-32 UNF	1-100k cps