

# Spool valves for dispensing thick gels

Silicones

Gels

Pastes

RTVs

Sealants

Greases

UV Gels



The Spool Valves provide precise shot accuracy along with “high volume” capacity over a range of material viscosities, shot sizes and pressures. They feature “suck back” anti-drip as well as a fast on/off dispensing function that is not affected by material input pressure. An optional oil chamber creates an additional liquid seal to prevent moisture from being carried on the spool, excellent for moisture sensitive materials. Pneumatically activated, the valves can be used with an internal spring close (single acting) or an air-closing connection (double acting). Output is a 1/4" NPT which allows multiple types of tips to be used.

The TS5322 Mini Spool Valve Series is designed for better accuracy with lower pressure. The series operates similar to the TS941, however, it is smaller in size.

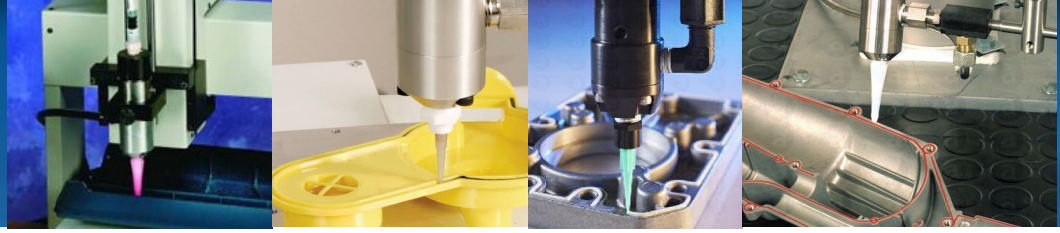
Suitable for moisture sensitive adhesive when utilizing supplied oiler. The Spool Valves can be used in a wide range of applications such as flux paste, grease, RTV Silicone, UV cure gel, solder mask, gasketing.



## Features

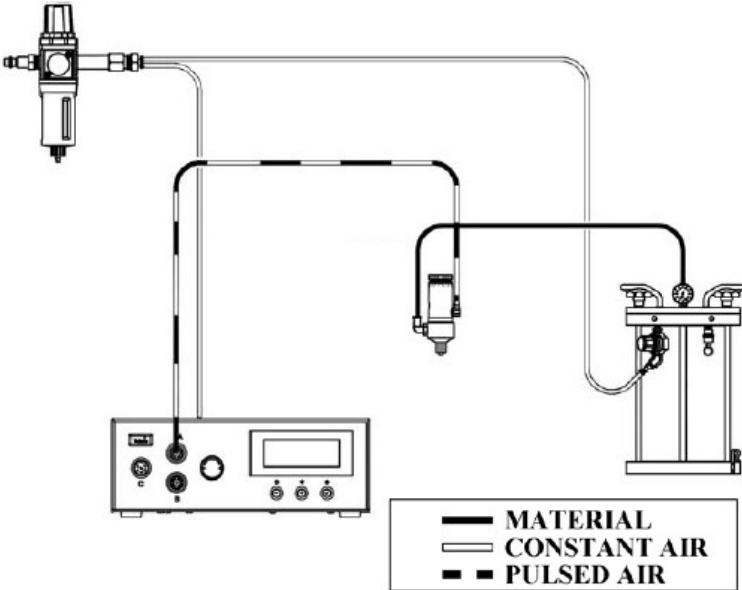
- Handles high viscosity materials
- Adjustable fluid flow control (on TS5322)
- Positive shut off with snuff-back action
- Low maintenance
- Easy cleaning
- Compact design
- Cycle rate exceeds 500/minute
- Low-maintenance air operated

# Spool valves



The complete application system includes the TS941 or TS5322 air-operated valves, TS500R digital timed controller, a choice of fluid reservoirs and a luer lock dispense tip.

Experienced expert technical assistance combined with 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.



- Part ID: TS941
- Materials: 303 Stainless Steel, Teflon
- Length: 4.70" (119mm)
- Diameter: 1.50" (38mm)
- Weight: 1.16lb (726g)
- Viscosity Range: 5,000 to 3 Million CPS
- Repeatability:  $\pm 1.28\%$
- Cycle Rate: Up to 500 cycles/ minute
- Flow Rate (water): 39,000 ml / minute @ 100 psi
- Min Shot Size: 0.14 cc / ml
- Max Fluid Pressure: 2500 psi (172.4 bar)
- Activation Pressure: 70 psi (4.8 bar) minimum
- Material Inlet: 3/8"
- Material Outlet: 1/4"
- Mounting: 1.5" (38mm) diameter

- Part ID: TS5322
- Materials: 303 SS, Anod Alu, Teflon, EPR
- Size: 101.6mm L x 25mm Diameter
- Weight: 141g
- Viscosity Range: 5,000 to 1 Million CPS
- Repeatability:  $\pm 0.2\%$
- Cycle Rate: Up to 500 cycles/ minute
- Flow Rate (water): 2700ml/ minute @100 psi
- Min Shot Size: 0.002 cc or ml
- Max Fluid Pressure: 500 psi
- Activation Pressure: 70 psi (4.8 bar) minimum
- Material Inlet: 1/8" NPT
- Material Outlet: 1/8" NPT
- Mounting: 1/4" 20UNC-2B

## Valves

The TS941 & TS5322 valves are used with TS500R, TS350 or TS250 controllers or J2200 Series automation systems for repeatable outputs of low to medium viscosity fluids. 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 where it needs to be — 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, 10.0 and 19.0 litre capacities for more flowable materials. TSI Retainer Systems and Cartridges available from 2.5 to 32 ounces (75cc to 950cc) for pastes and gels. Or high pressure pail pumps for 10kg and 25kg drums of sealants, grease and pastes.

