

TS941 Series High Pressure Spool Valve

Data Sheet



TECHCON™



TS941 Series High Pressure Spool Valve

Fluid dispensing unaffected by fluid input pressure

The TS941 Series Spool Valve is based on a balanced spool design, to create a fast “ON/OFF” fluid dispensing function that is not affected by fluid input pressure. The spool action displaces a portion of the fluid back into the nozzle during shut off. This creates an automatic “suck-back” anti-drip feature. An oil chamber is provided for use above the upper seal to create an additional liquid seal that will prevent moisture from being carried onto the spool.

The design facilitates easy maintenance without the need for special tools. The valve is designed to be opened by air pressure and closed by a return spring (single acting). A port is provided so that the valve may be connected for air closing without the spring (double acting).

The TS941 Series side ports can be rotated to provide conveniently located valve connections. The hardened spool slides in high quality seals and is suitable for use with fluids having a viscosity of up to 3,000,000 cps at pressures of up to 2,500 psi (172.4bar).

FEATURES AND BENEFITS

- Precise and consistent shot sizes
- Handles higher fluid pressure than most other valves
- Automatic suck-back after every dispense cycle
- Suitable with moisture-sensitive materials

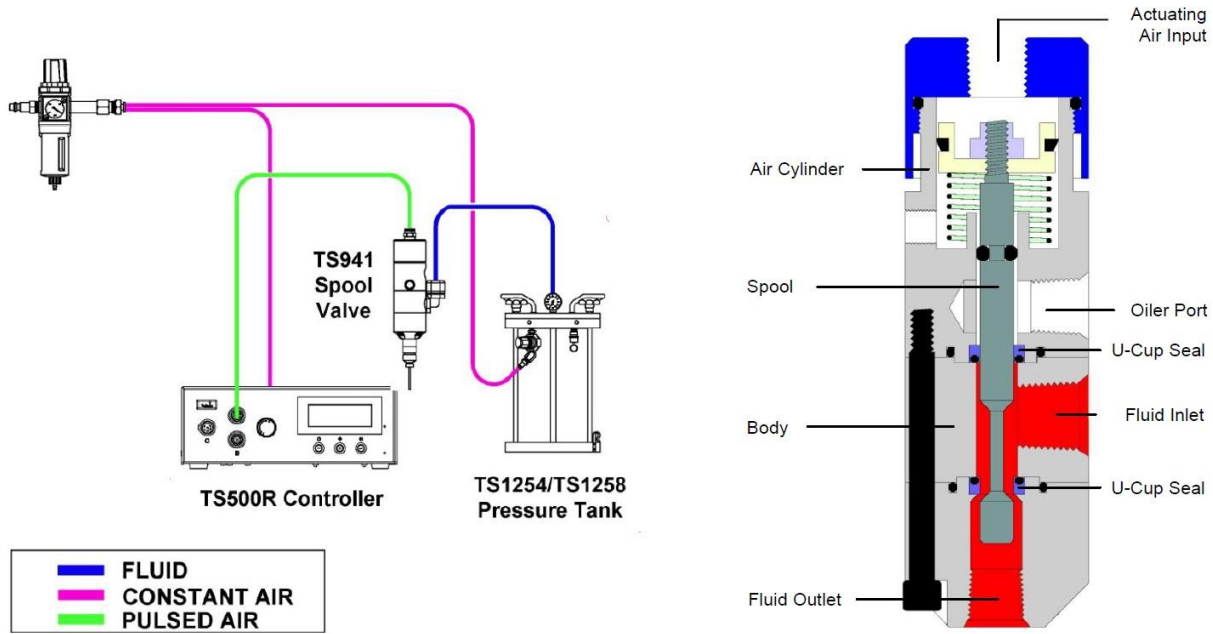
TYPICAL APPLICATIONS

- Applying beads of silicone for gasketing applications
- Dispensing solder mask onto selected areas of PCBA's
- Dispensing grease in lubrication applications



TS941 Series High Pressure Spool Valve

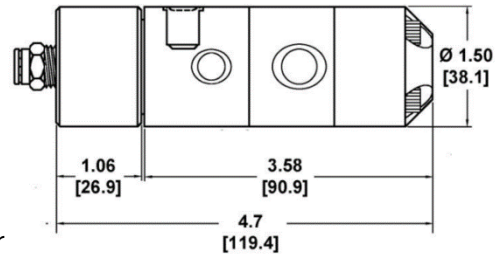
Data Sheet



Part Number:	TS941	TS941A
Size (Imperial):	4.7" Length x 1.50"	4.7" Length x 1.50"
Size (Metric):	119.4 mm x 38.1 mm	119.4 mm x 38.1 mm
Weight:	1.6 lb (728 g)	1.6 lb (731 g)
Fluid Inlet Port:	3/8" NPT female	1/4" NPT female
Fluid Outlet Port:	1/4" NPT female	1/4" NPT female
Aux Air Inlet:	Port: 1/8" female	1/8" female
Activation Pressure:	70 psi (4.8bar) Min.	70 psi (4.8bar) Min.
Max Fluid Pressure:	2500 psi (172.4bar)	2500 psi (172.4bar)
Operating Frequency:	400+ cycles/min.	400+ cycles/min.
Mounting Port:	N/A	N/A
Viscosity Range:	1 - 3 000 000 cps	1 - 3 000 000 cps
Wetted Parts:	303 SS, Hard Chrome plated Stainless Steel, UHMWPE, EPR	303 SS, Hard Chrome plated Stainless Steel, UHMWPE, EPR

ACCESSORIES

- Fluid reservoirs: The valve can be fed from the [TS1254](#) or [TS1258](#) Pressure Tank, or from any size cartridge.
- Suck back control cap: The suck back stroke can be adjusted with the [934-003-000](#) suck back control cap.
- Dispensing Tips: [Dispensing nozzles](#) are recommended for this valve type.
- 90-degree 1/4" NPT F x 1/4" NPT M adapter is available: TSD918-3



Dimensions are in inches [mm]