



Valve Product Guide

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TS1212 Pinch Tube Valve



Features:

- Disposable feed Path
- Light weight
- Suitable for 2-part fluid

Application uses:
Anaerobics, CA's, Ink, Oil,
Solder Mask, 2-Part...

Viscosity Range:
1cps – 45,000cps

TS5620 Series Diaphragm Valves



Features:

- Long diaphragm life
- Excellent moisture sensitive resistance
- Compact design
- Wide range of fluid compatibility
- Suitable for UV adhesive

Application uses:
Oil, Water, CA, Solvent, Activator, Paint,
Lacquer, Mold Release, UV Cure...

Viscosity Range:
1cps – 50,000cps

TS5400 Series Needle Valves



Features:

- Excellent shot to shot consistency
- No "dead volume" when using the TS5440 Microshot Needle Valve
- Suitable with UV adhesives when using the stainless-steel versions
- Dispenses as low as 0.5 micro litre

Application uses:
Activator, Alcohol, Liquid Flux, Ink, Oil,
Reagent, Solvent, UV Cure...

Viscosity Range:
1cps – 100,000cps

TS5322 Series Spool Valves



Features:

- High flow rate
- Automatic end of cycle "suck-back"
- Optional Delrin® body for UV adhesives
- Suitable for moisture sensitive adhesive, when utilising supplied oiler

Application uses:
Flux Paste, Grease, RTV Silicone,
UV Cure Gel, Solder Mask...

Viscosity Range:
Up to 1,000,000cps



Features:

- Very high flow rate
- Low maintenance design
- Automatic end of cycle "suck-back"

Up to 2500psi (172.36bar) fluid pressure

Application uses:
Flux Paste, Grease, RTV Silicone, UV
Cure Gel, Solder Mask...

Viscosity Range:
Up to 3,000,000cps



Features:

- No over spray
- Long life cycles
- Cone or Fan spray pattern
- Available in 3 orifice sizes
- Disposable tip micro-shot version

Application uses:
Activator, Alcohol, Conformal Coating,
Ink, Liquid Flux, Lacquer, Oil, Solvent,
UV Cure...

Viscosity Range:
1cps - 1,000cps TS5520
1cps - 5,000cps TS5540
1cps - 5,000cps TS5540-MS

TS5000DMP-DCX Series Rotary Valve



Features:

- No cleaning required .
- disposable fluid path - 6, 8 & 16 pitch feed screw.
- Encoder option available
- Suitable for medium to
- high viscosity fluids

Application uses:

Epoxy, Solder Paste, Flux Paste, Grease, RTV, Silicone, UV Cure, 2-part...

Viscosity Range:

30,000cps – 1,300,000cps

TS7000IMP-DCX Series IMP Rotary Valve



Features:

- Quick cartridge change over
- Field replaceable parts
- Low-maintenance design
- Flexible syringe mounting
- Flexible motor mounting
- Interchangeable with TS5000DMP valve body

Application uses:

Epoxy, Flux Paste, Grease, RTV Silicone, Solder Paste, UV Cure...

Viscosity Range:

30,000cps – 1,300,000cps

TS9800 Series Piezo Jet Valves



Features:

- Non-contact jetting technology
- 1500 Hz continuous, 2000 Hz burst
- Min. shot size: 0.5 nL
- Accurate and precise dispensing
- Long component working life
- Small modular design
- Field replaceable spare parts
- Low total cost of ownership

Application uses:

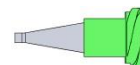
Edge sealing, die bonding, underfill, adhesive micro-dots...

Viscosity Range: 1– 2 million cps

ACCESSORIES

MT Series Tips - available in gauges 18, 19, 20, 21, 23, 25, 27 & 30
Replace XX with 18, 19, 20, 21, 23, 25, 27 or 30 to determine gauge

MTXX-PBN



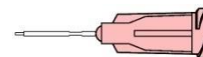
e.g. for an 18 MT tip, the part number is **MT18-PBN**

TF Series - Teflon® Lined Tips - available in gauges 20 & 25

Replace XX with 20 or 25 to determine gauge

Replace *** with 050 or 100 to determine cannula length

TF7XX***PK



050 1/2" (12.7 mm) **Gauges 20 & 25**

100 1" (25.4 mm) **Gauges 20 & 25**

e.g. for a 20 gauge 1/2" TF tip, the part number is **TF720050PK**

TS-SS Series Tips - available in gauges 12 - 23, 25, 26, 27 & 28

Replace XX with 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27 or 28 to determine gauge

TSXXSS-1/2PK



e.g. for an 18 gauge TS-SS tip, the part number is **TS18SS-1/2PK**

Four Way Manifold



Provides equal flow for up to four fluid lines.
Suitable with UV fluids - manufactured from Delrin®. Designed for use with Techcon Systems pressure tanks.

TS918-46

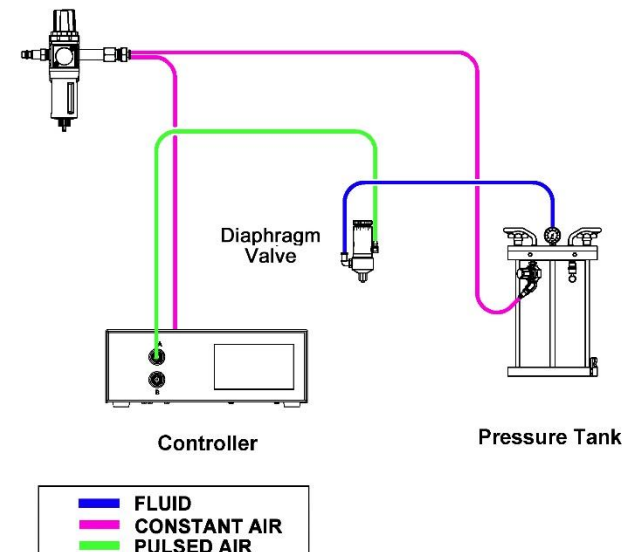
Compression Fittings



Compression fittings provide a secure connection to the valve & increases fluid flow. For use with 1/4" & 3/8" OD tubing.

TSD1003-16 - 90° 1/8" NPT x 1/4" OD tube
TSD1002-17 - 1/8" NPT x 3/8" OD tube
TSD1002-18 - 1/8" NPT x 1/4" OD tube
TSD1002-38 - 1/4" N PT x 1/4" OD tube
TSD1566-5 - 1/4" NPT x 3/8" OD tube

TYPICAL SETUP



TS500R Series Touch Screen Controllers

TS555R – Pneumatic valve controller (TS5620, TS5400, TS5322, TS941)
TS566R – Spray valve controller (TS5520, TS5540 Series)
TS577R – Rotary valve controller (TS5000DMP-DCX, TS7000IMP-DCX)
TS588R – PC Pump controller (TS8100 Series)

- Updateable through USB interface
- Digital regulator
- Air calibration feature
- Ethernet for IoT integration
- All outputs displayed digitally
- Low pressure warning feature
- I/O Interface for automatic applications
- TIMED, TEACH, INTERUPPT and PURGE modes



TS588R shown. Full daa sheets available upon request.