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TECHNOLOGY GROUP

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ROTARY VALVES



▲ *TS5000DMP - performing underfill.*

TS5000 Series

The Rotary Valves use a rotary feed screw (auger) to dispense fluid with a positive displacement action, allowing for ultra-precise control of the dispensing process. The unique design ensures that material is constantly present at the feed screw inlet while the controlled rotation of the feed screw moves the material from the feed to the discharge point. This allows for precise dispensing of two-part products without the danger of separation. Discrete control of the forward and reverse rotations of the feed screw controls the amount of material discharged.

The 5000 Series offers a comprehensive range of options including motors with 2 different wattages, 3 reduction ratios and an encoding option. There are 4 different choices for body material and 12 choices of feed screws. This variety enables you to make the correct valve selection for any given application.

In addition to the 5000 Series, the unique DMP (Disposable Material Path) cap valve offers a choice of 3 different feed screws sizes (6, 8 and 16-pitch), all made of Delrin®. The DMP Valve has a hinged doorway that opens easily so the disposable auger can be removed, disposed of, and replaced within seconds, while the line is still in operation. Therefore, the DMP significantly reduces downtime and waste. The choice of left, right or center hinged openings makes the valve suitable for mounting on most automated systems.



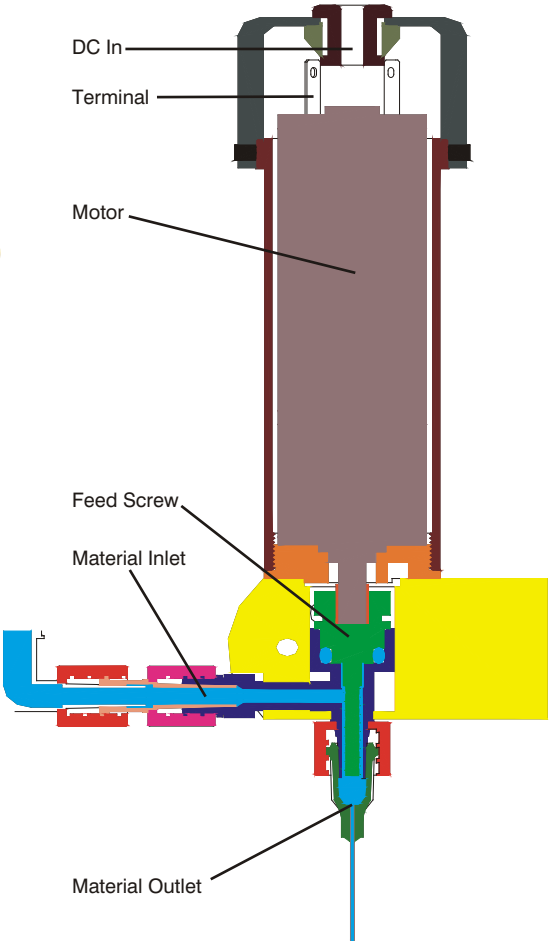
Optional encoder motors are available for closed loop feed back requirement. ▶



TS5000
Precision
Rotary Valve



TS5000DMP
Disposable
Material Path
Rotary Valve



Typical Applications:

Solder paste, die attach, surface mount adhesive, chip encapsulation, dam writing

Key Features:

- Precise and consistent shot sizes
- Motor reverse capability
- Field replaceable wetted parts (For DMP version)
- Adjustable dispense rate
- Wide variety of configurations

Recommended Controller:

TS5100 Rotary Valve Controller.

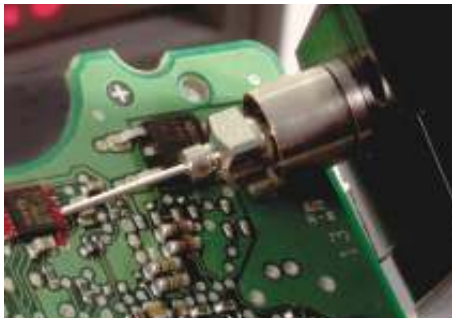
For complete information on the TS5100 Rotary Valve Controller, please see page 19.



TS5000 Right hand opening. Left and front door opening also available.



TS5000 Disposable path available in 3 different pitches, DMP6-10, DMP8-10, DMP16-10, in packs of 10.



TS-SS Precision Metal Needles, see page 17.

VALVE	SIZE AND WEIGHT	WETTED PARTS	MAXIMUM FLUID PRESSURE	ACTIVATION PRESSURE	CONNECTIONS	MOUNTING	RECOMMENDED VISCOSITY RANGE
TS5000 3-Watt	L: 4.02" (102mm) W: 2.12" (54mm) Weight: 0.4lb (180g)	Depending on exact configuration	30 psi (2.1bar)	NA	Inlet: Female Luer Lock Outlet: Male Luer Lock	1.0" wide channel	30k-130k cps
TS5000 6-Watt	L: 5.4" (137mm) W: 2.5" (64mm) Weight: 0.6lb (270g)	Depending on exact configuration	30 psi (2.1bar)	NA	Inlet: Female Luer Lock Outlet: Male Luer Lock	1.0" wide channel	30k-130k cps
TS5000DMP	L: 5.4" (142mm) W: 3" (76mm) Weight: 0.77lb (340g)	Delrin®, Viton® Celcon®	30 psi (2.1bar)	NA	Inlet: Female Luer Lock Outlet: Male Luer Lock	1.0" wide channel	30k-130k cps

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