



Quick and easy feed screw replacement while maintaining high precision output

The TS7000IMP Series Rotary Auger Valves uses a feed screw to dispense fluid with a rotary displacement action, allowing ultra-precise control of the dispensing process.

The valve's modular design allows quick and easy replacement of the feed screw/chamber (cartridge assembly) without removing the valve from the machine. In addition, the valve cartridge assembly can be interchanged to be used with TS5000DMP feed screw inserts – The 7000-DMPBKIT retrofit kit is required.

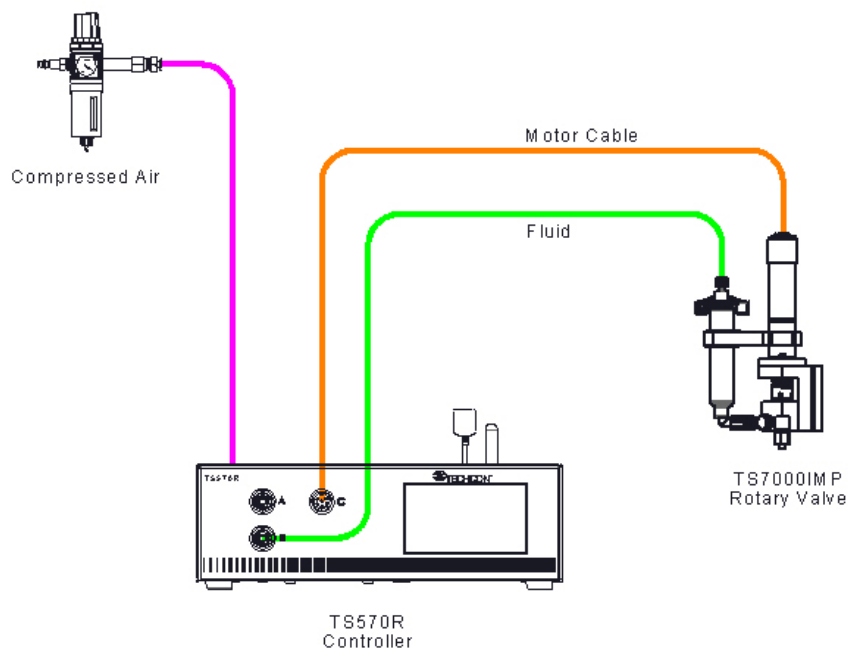
The TS7000IMP Series valve is available in 4 choices of feed screw sizes (8-pitch, high output 8-pitch, 16-pitch and 32-pitch), all made of precision hardened tool steel. An encoder motor version is available for applications that require closed-loop motor control with encoder feedback.

#### TS7000IMP Series Configurations:

TS7000-DCX-8	Rotary Valve 8P Feed Screw
TS7000-DCX-8HO	Rotary Valve 8P High Output Feed Screw
TS7000-DCX-16	Rotary Valve 16P Feed Screw
TS7000-DCX-32	Rotary Valve 32P Feed Screw

#### Encoder Motor "E" Configurations:

TS7000E-8-DCX	Rotary Valve 8P Feed Screw
TS7000E-8HO-DCX	Rotary Valve 8P High Output Feed Screw
TS7000E-16-DCX	Rotary Valve 16P Feed Screw
TS7000E-32-DCX	Rotary Valve 32P Feed Screw



## Key Features & Benefits

- Accurate and repeatable dispensing output
- Quick and easy feed screw/chamber changeover
- Field replaceable spare parts
- Close-loop motor control feedback (encoder version)

## Typical Applications

- Dispense solder paste bead in solar cell tabbing
- Dispense dots of SMA in PCBA production
- Dispense structural adhesive on flexible PCBA

Series Number	TS7000IMP	TS7000IMP "E"
Size (Metric)	170.18 mm x 93.98 mm	171.45 mm x 93.98 mm
Size (Imperial)	6.7" x 3.7"	6.75" x 3.7"
Weight	438g / 0.96 lb	438g / 0.96 lb
Fluid Inlet Port	Luer lock female	
Fluid Outlet Port	Luer taper and cap	
Input Voltage Range	4 – 24 VDC	
Max Fluid Pressure	30 psi (2.07 bar)	
Operating Frequency	300+ cycles/min.	
Mounting Port	25.4 mm / 1" channel	
Viscosity Range	30K – 1,300K cps	
Wetted Parts	303SS, UHMWPE, Nylon®	

## Included with the Unit

Mounting Bracket; Syringe Bracket; 30/55 cc Receiver Head; DIN Connector; Dispense Tip Selection Pack

## Accessories

Dispensing Tips: Precision TE tips, TT-RIGID  
Recommended Controller: TS577R

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