



TS7000IMP- solar cell tabbing

TS7000 Interchangeable Material Path (IMP) Rotary Valve

The TS7000 Series IMP Rotary Valves are the latest additions to the Rotary Microvalve family. The valve uses a feed screw (auger) 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 can be interchanged to use with TS5000DMP feed screw inserts.

The TS7000 Series IMP valve is available in 4 choices of feed screw sizes (32-pitch, 16-pitch, 8-pitch and high output 8-pitch), all made of precision hardened tool steel. An encoder motor version is available for applications that require closed-loop motor control with encoder feed back.

Typical Applications:

Solder Paste, Die Attach, Surface Mount Adhesive (SMA), Chip Encapsulation, Dam Writing, Thermal Grease.

Recommended Controller:

TS500R Digital Controller

Key Features:

- Accurate and repeatable dispensing output
- Precision and durable feed screw/chamber
- Field replaceable spare parts
- Quick and easy feed screw/chamber cartridge changeover
- Low-maintenance design
- Interchangeable with TS5000DMP valve body
- Flexible syringe mounting position
- Flexible needle installation position
- Flexible encoder position (encoder version)
- Closed-loop motor control with encoder feed back (encoder version)

Valves:

PART NUMBER	DESCRIPTION
TS7000-32	IMP Rotary Valve, 32-Pitch
TS7000-16	IMP Rotary Valve, 16-Pitch
TS7000-8	IMP Rotary Valve, 8-Pitch
TS7000-8HO	IMP Rotary Valve, 8-Pitch High Output
TS7000E-32	IMP Rotary Valve, 32-Pitch, Encoder
TS7000E-16	IMP Rotary Valve, 16-Pitch, Encoder
TS7000E-8	IMP Rotary Valve, 8-Pitch, Encoder
TS7000E-8HO	IMP Rotary Valve, 8-Pitch High Output, Encoder

Cartridge Assembly:

PART NUMBER	DESCRIPTION
7090-9140	Cartridge Assembly, 32-Pitch
7090-9040	Cartridge Assembly, 16-Pitch
7090-9030	Cartridge Assembly, 8-Pitch
7090-9050	Cartridge Assembly, 8-Pitch HO

Specifications:

Length:	6.78" (172.2mm)
Width:	3.70" (94mm)
Depth:	2.23" (56.6mm)
Weight:	0.86 lb. (390 g)
Wetted Parts:	Hardened Tool Steel, Stainless Steel, UHMWPE, Nylon
Mounting:	1.0" (25.4mm) Wide Channel
Recommended Viscosity Range:	30K - 1300K cps