

TS8100 Series

Progressive Cavity Pump



TECHCON™

TS8100-M

High-Performance PC Pump



The TS8100 Series is a continuously volumetric dispense pump based on Progressive Cavity (PC) technology.

Techcon's TS8100 Series is designed to dispense a wide range of fluids, from low viscosity coatings to high viscosity greases.

The PC Pump uses a special stator and rotor design to provide consistent dispensing output.

The turning rotor moves the fluid in tightly sealed cavities through the stator's fluid chambers, to create volumetric fluid flow that does not change the shape or size of the fluid.

Due to the PC Pump's unique dispensing technology the accuracy and repeatability is +/- 1%.

PC Pump configurations are available to handle a wide range of flow rates.

Key Features & Benefits

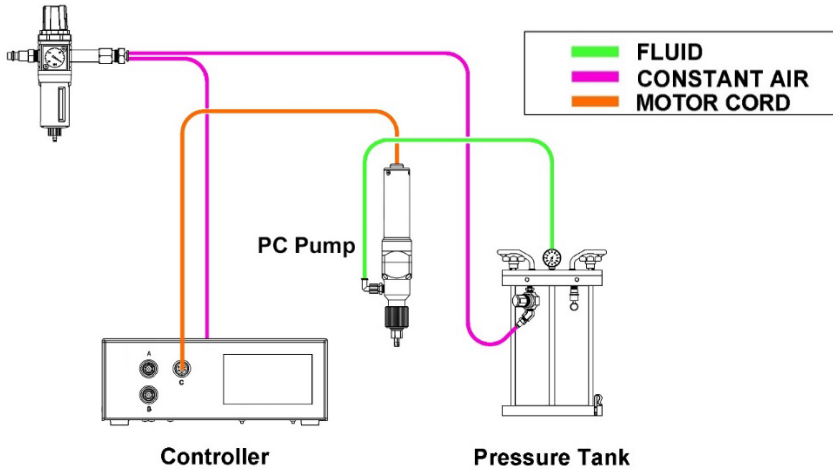
- Volumetric, positive displacement
- Accurate & repeatable up to +/- 1%
- No dripping with any viscosity
- Does not damage or break fillers
- Easy to clean

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SHIPS WITH:

- Syringe & Mounting Bracket • Luer Lock Fitting
- Cleaning Kit • Tip Pack

ACCESSORIES

- Fluid Reservoirs: The valve can be fed from Techcon's TS1254 or TS1258 pressure tanks, or from any size syringe barrel.
- Recommended Controller: TS588R Smart Controller

| | |
|---------------------------------|--|
| Size (100/200/300) | 261 mm L x 34 mm W (10" L x 1.3" W) |
| Size (400) | 275 mm L x 34 mm W (11" L x 1.3" W) |
| Size (500) | 301 mm L x 34 mm W (11.8" L x 1.3" W) |
| Weight (g) | 590 g |
| Weight (lb) | 1.3 lb |
| Wetted Parts | Delrin (Acetal). Carbide, PFE, stainless steel, UHMWPE |
| Fluid Viscosity | 1-300K cps or m.Pa.s |
| Precision ±, Absolute (1) | ±1% |
| Self-sealing (2) | 2 bar |
| Material Inlet Port | 1/8" NPT |
| Material Outlet Port | Male Luer lock |
| Direct Mount Material Reservoir | 3 to 55 cc |

TYPICAL APPLICATIONS

Dispensing:

- Underfill for PCBA Components
- Encapsulation & Potting materials
- Lubricant on Automotive Parts
- Paste and Flux

| | TS8100-100M | TS8100-200M | TS8100-300M | TS8100-400M | TS8100-500M |
|--|-------------|--------------|-------------|-------------|-------------|
| Dispense Volume per Rotation (average) | 0.012 ml | 0.047 ml | 0.080 ml | 0.12 ml | 0.31 ml |
| Flow Rate (ml/min) | 0.132-1.32 | 0.517 – 5.17 | 0.88 – 8.8 | 1.32 – 13.2 | 3.41 – 34.1 |
| Max. Flow Rate Recommended (3) | 0.65 ml/min | 3.38 ml/min | 5.06 ml/min | 8.0 ml/min | 21 ml/min |
| Minimum Dispense Amount | 0.0012 ml | 0.0047 ml | 0.0080 ml | 0.012 ml | 0.031 ml |

171005-1200-CL

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