

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%.

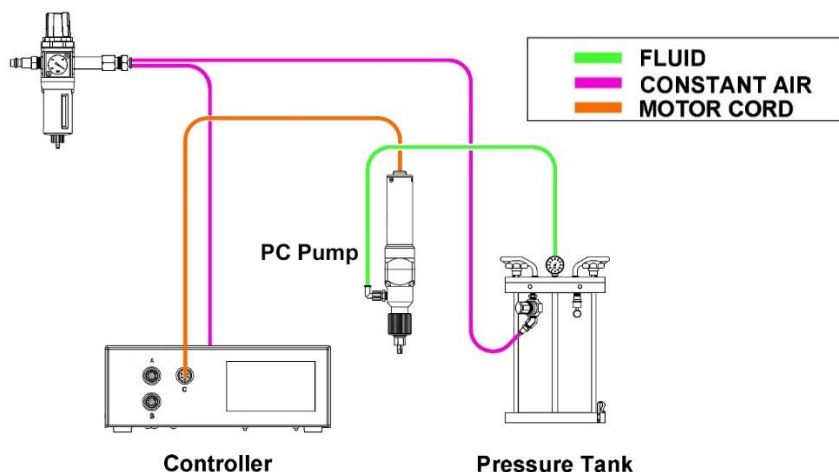
PC Pump configurations are available to handle a wide range of flow rates.

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

TS8100 Series

Progressive Cavity Pump



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 mm (100/200/300)	261 mm L x 34 mm W
Size mm (400/500)	275 mm L x 34 mm W
Size inches (100/200/300)	10" L x 1.3" W
Size inches (400/500)	11" 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 \pm , Absolute (1)	$\pm 1\%$
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	0.070 ml	0.12 ml	0.31 ml
Flow Rate	0.15-1.04 ml/min.	0.47-4.46 ml/min.	0.74 – 6.7 ml/min.	1.2 – 12 ml/min	3.1 – 31 ml/min
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	0.001 ml	0.0045 ml	0.0068 ml	0.012 ml	0.031 ml

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