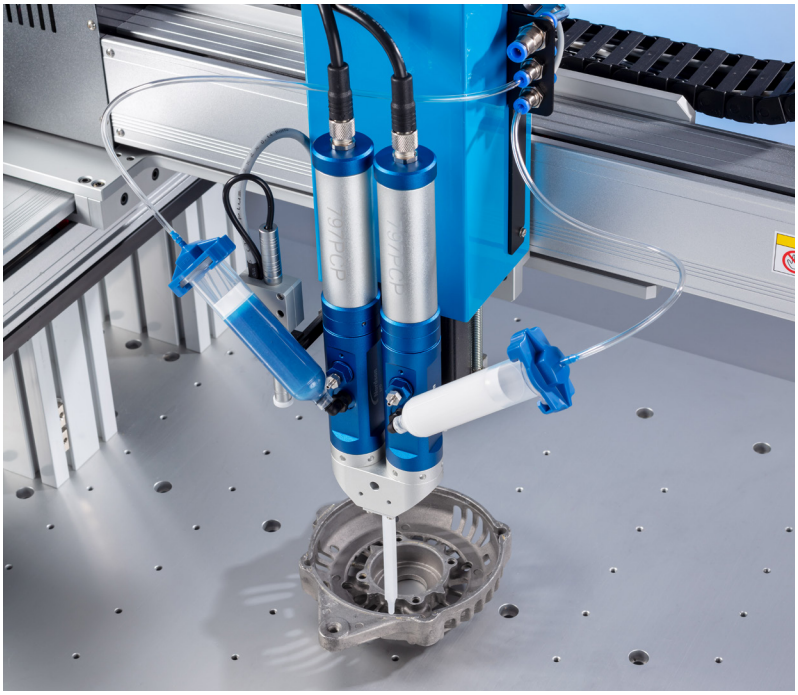
797PCP-2K Series Progressive Cavity Pump

Volumetric meter mix dispensing for two-component (2K) fluids



797PCP-2K progressive cavity pumps provide best-in-class deposit volume accuracy and repeatability for dispensing two-part fluids.

Part #	Description
7364203	797PCP-2K-0.01 pump, 0.01 mL per revolution, 0.13–1.95 mL per minute flow rate
7364204	797PCP-2K-0.05 pump, 0.05 mL per revolution, 0.59–8.85 mL per minute flow rate
7364205	797PCP-2K-0.15 pump, 0.15 mL per revolution, 1.63–24.50 mL per minute flow rate
7366005	797PCP-2K-0.30 pump, 0.30 mL per revolution, 0.30–45.0 mL per minute flow rate
7364206	797PCP-2K manifold, required for configuring system, accommodates two pumps and mixer

Purchase two pumps of the same size for 1:1 ratio dispensing. For other mix ratios, consult EFD for an expert recommendation based on application testing. Manifold must be purchased separately.

more info

Nordson EFD's 797PCP-2K pumps provide highly accurate meter mix dispensing of two-part assembly fluids for extremely reliable process control. The modular design consists of two 797PCP-2K pumps and a manifold that accommodates a wide range of disposable EFD bayonet static mixers for a total system solution.

Pumps come in four sizes — 0.01 mL, 0.05 mL, 0.15 mL, and 0.30 mL — that can be configured for multiple mix ratios. Each pump's design is based on the progressive cavity principal where its core components — a rotor and stator — form a perfectly sealed metering chamber.

As it rotates, the fluid moves from one sealed cavity to the next, allowing for continuous volumetric dispensing independent of fluid viscosity or changes in viscosity over time. Precisely metering accurate ratios of part A and part B materials through EFD static mixers improves mix quality and bond strength.

The continuous seal prevents shear, pulsation, and squeezing of the fluid, making the 797PCP-2K pumps ideal for dispensing abrasive pastes.

Features

- Highly precise fluid volume accuracy and repeatability at ±1%
- Continuous volumetric dispensing independent of viscosity variation
- Modular design for multiple mix ratios

Benefits

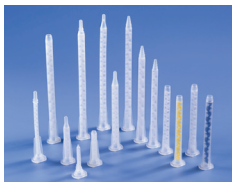
- Perfectly sealed metering chambers provide market-leading volumetric dispensing of 2K fluids in exact, repeatable amounts for improved process control
- Modular design allows for multiple mix ratios for a wide range of applications
- Easy disassembly and cleaning reduces downtime for maintenance
- Suck-back feature provides clean cut-off for more accurate dispensing without dripping or drooling
- Total system solution — pump, controller, and EFD static mixers — provides industry-leading performance and simplifies installation

Nordson EFD

Specifications

Item	Specification
Size	797PCP-0.01/0.05: 261.4L x 36.0DIA mm (10.29L x 1.42DIA") 797PCP-0.15/0.30: 297.9L x 36.0DIA mm (11.73L x 1.42DIA")
Weight	797PCP-0.01/0.05: 550.0 g (1.2 lb) per pump 797PCP-0.15/0.30: 620.0 g (1.4 lb) per pump
Rotor speed	10–150 RPM (depending on maximum motor speed)
Flow rate	797PCP-0.01: 0.13–1.95 mL/min 797PCP-0.05: 0.59–8.85 mL/min 797PCP-0.15: 1.63–24.50 mL/min 797PCP-0.30: 0.30–45.0 mL/min
Dispensing volume per revolution	797PCP-0.01: 0.009 mL 797PCP-0.05: 0.047 mL 797PCP-0.15: 0.139 mL 797PCP-0.30: 0.304 mL
Repeatability	±1%
Fluid inlet	1/8 NPT
Fluid outlet	Static mixer adapter
Mounting	M4
Fluid chamber	Anodized aluminum
Rotor	316Ti stainless steel
Stator	FFKM (Perfluoroelastomer)
Operating temperature	10–40° C (50–104° F)
Approvals	CE, UKCA, WEEE
Warranty	1 year, limited

Series 190 Spiral Bayonet Mixers



These disposable spiral mixers deliver complete and thorough mixing in a wide range of sizes. Five diameters are available with four outlet styles. The H-Tapered outlet is compatible with a luer lock adapter for attaching dispense tips for more precise fluid deposits.

Series 295 Square Turbo Bayonet Mixers



These disposable square static mixers are shorter than comparable spiral mixers. The patented design ensures superior mixing performance while reducing material waste.

7197PCP Controllers

For best results use 797PCP Series pumps with fully integrated Nordson EFD 7197PCP controllers, which provide multiple programming modes — Line, Volume, Weight, or Timed — to meet the unique needs of your application. Advanced features, such as the ability to change the rotor speed when dispensing a line around corners, deliver a high level of process control.

Request a Process Evaluation

Contact Nordson EFD to configure a precision dispense system that meets your specific needs, with:

- A complimentary process evaluation by experienced fluid dispensing experts.
- Samples processed for customer evaluation and approval prior to purchase.

Nordson EFD

For Nordson EFD sales and service in over 40 countries, contact Nordson EFD or go to www.nordsonefd.com.

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