

Take control of
your fluid
applications.



Nordson
EFD

Nordson EFD has provided dispensing solutions to the Life Sciences industry for over 30 years.

Automation for process uniformity

With EFD's benchtop XYZ dispensing robot systems, bonding, gasketing, and filling operations can be easily conducted in batch or single piece format, accurately and repeatedly with ease. Dialog based operating software makes programming a snap, eliminating complicated programming language. The robot system easily performs 3-dimensional linear and arc interpolations with exceptional positional repeatability. Efficient and rapid dispensing tip placement movements allows increase productivity and process consistency. Robot systems are available from 200 X 200 mm to 500 X 500 mm work envelopes, and are directly compatible with the entire range of EFD dispense valves and syringe barrel dispensers.



Component bonding

The Ultimix™ V High Precision Dispenser provides a new level of accuracy and process control when applying fluids that change viscosity, including 2-part epoxies and other fluids that thicken over time, as well as UV-cure adhesives and materials that get thinner as ambient temperatures rise. Fully electronic control of dispense time, air pressure and vacuum ensures exceptionally high accuracy, repeatability and shot consistency. Programmable memory automatically adjusts dispensing parameters for viscosity changes. Built-in calibration for dispense time and pressure allows for validated processes.

Precision non-contact dispensing

Nordson EFD's PicoDot™ system is a non-contact jetting system capable of dispensing a wide variety of fluids at speeds of up to 150 shots per second. By combining high speed with exceptional accuracy, the PicoDot system allows medical products to be built more cost-effectively with consistently high quality.

Applications include

- Syringes
 - Lubricating interiors with silicone oil
 - Bonding needles with UV adhesive
- Endoscopes
 - Bonding lenses with optical adhesives
- Test strips
 - Jetting or dispensing protein solution
 - Insulin/blood sugar test strips
 - Veterinarian test strips
- Blood bags
 - Sealing bags with cyanoacrylate



EFD's new aseptic valves have been designed to accurately control the application of most low to medium viscosity fluids used in medical and biomedical dispensing applications. Typical applications include dispensing saline solutions to fill contact lens packages, filling lens molds with monomers, and vial filling. Machined from 316L stainless steel, the aseptic valves feature an easy-to-clean design that is suitable for CIP (clean-in-place) and SIP (sterilize-in-place) processes.

Aseptic dispensing



The HP7x™ high-pressure dispensing tool was designed specifically to allow workers to apply small dots of extremely thick assembly fluids through small gauge tips. The HP7x multiplies dispensing pressure by a 7-to-1 ratio, so that 100

High-pressure dispensing tool

psi (6.9 bar) of input produces 700 psi (48.3 bar) of air pressure inside a disposable 3cc reservoir within the unit. This allows fast, effortless dispensing of thick materials like medical-grade adhesives and RTVs, eliminating the risk of carpal tunnel syndrome.

EFD spray valve systems consist of a precision spray valve that uses Low Volume Low Pressure (LVLP) air to apply a controlled fine coating without mist or overspray. The valve's high transfer efficiency and clean cutoff result in a dramatic reduction in fluid usage, while the unique non-clogging design reduces maintenance and downtime.

Coating applications

Typical applications for these valves include lubricating the interior of syringes with silicone, coating stents, dispensing protein solutions on membranes for test strips, and coating catheters and guide wires with hydrophilic coatings.



Automated dispensing

Unlike complex mechanical valves, pneumatically operated dispense valves from EFD are designed for low maintenance and outstanding reliability. They have no seals or O-rings to wear out and leak. Whether you need to bond assemblies or tips for syringes, fill small containers with solutions, apply markings on catheters or dispense monomers for lenses, EFD valves increase productivity and reduce downtime.

About EFD



Since 1963 EFD has been dedicated to producing the highest quality products; making consistent, on-time deliveries; and providing the very best customer support and service. With four modern manufacturing plants and sales offices throughout the world, EFD continues to refine and improve these original commitments.

In October 2000 EFD was acquired as a subsidiary of Nordson Corporation. Nordson (NASDAQ symbol NDSN) designs, manufactures and markets systems that apply adhesives, sealants and coatings to a broad range of consumer and industrial products. Their combined expertise in complementary dispensing technologies allows EFD and Nordson to provide a solution for virtually any dispensing application, from benchtop assembly operations to high-speed, fully automated manufacturing processes.

Over 280 skilled employees and state-of-the-art machining centers support EFD's unwavering commitment to quality, innovative design and useful, cost-effective products.

In stock with same day shipping, complete systems and all related parts. No downtime, no delay.

Our mission is easy to understand and implement:

Treat each prospect and customer as we would like to be treated.

Call us today and request a FREE evaluation unit.



For Nordson EFD LLC sales and service in over 30 countries, contact EFD or go to www.nordsonefd.com

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