

Take control of
your fluid
applications.



EFD[®]
A NORDSON COMPANY

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

Automation for process uniformity

With EFD's benchtop XYZ dispensing robots, bonding, gasketing, and filling operations can be easily programmed using a Bluetooth®-capable, handheld PDA teach pendant. The programming feature is combined with closed loop servo controls and powerful drive motors that rapidly position the dispense tip to increase productivity and process consistency. The Ultra® TT automation systems are available with 325 x 325 or 525 x 525 mm work envelopes, and are compatible with EFD's wide range of dispense valves and syringe barrels. For details: www.efd-inc.com/robots



Component bonding

EFD advanced benchtop fluid dispensing systems apply accurate, consistent amounts of UV-cure adhesives, cyanoacrylates, silicones and other fluids used in medical device assembly processes – from uniform dots as small as 0.10 mm (0.004") in diameter to neat, controlled beads. Fluid application is simple, fast, and accurate. To dispense a preset amount of material, the user just holds the syringe barrel like a pen, places the tip in position and presses an electric foot pedal. Up to 16 different deposit amounts can be stored in a non-volatile memory and easily recalled at the push of a button. Accuracy down to 0.0001 seconds and digital displays of all dispensing parameters ensure a smooth and easy validation process. More information: www.efd-inc.com/bonding



Cannulae and flushing tips



EFD tips are precision molded in an EFD silicone-free, latex-free facility. No mold-release agents are used in the manufacturing process. This eliminates fluid contamination by residual materials. A unique 360° SafetyLok™ threaded hub ensures safe, secure attachment to the syringe barrel. EFD also offers traceability on all of its tips through lot numbers posted on the packages.

EFD's high-quality tips have proven to be exceptional tools for dispensing viscoelastic materials in ophthalmic applications.

Catheter manufacturers typically specify only an EFD tip be used as a saline solution flushing tip prior to initial use of the catheter. For samples: www.efd-inc.com/kits

www.efd-inc.com info@efd-inc.com

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Sales and service of EFD dispensing systems are available worldwide.

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. For application assistance: www.efd-inc.com/aseptic

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

High-pressure dispensing tool

tips. The HP7x multiplies dispensing pressure by a 7-to-1 ratio, so that 100 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.

More: www.efd-inc.com/tools

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. Download whitepaper: www.efd-inc.com/coating



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. For more information: www.efd-inc.com/dispense-valves

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.



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For EFD sales and service in over 30 countries, contact EFD or go to www.efd-inc.com/contact

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