Nordson EFD reservoirs maintain steady fluid pressure to produce the most accurate, repeatable deposits possible. Bulk unloaders provide superior flow properties when dispensing high-viscosity adhesive and sealant materials.

Choose from a variety of options to meet your application needs. To learn more about the EFD systems used with these reservoirs and tanks, take a look at our valves and automated dispensing systems.
<table>
<thead>
<tr>
<th>Type</th>
<th>Volume</th>
<th>Recommended Fluid Viscosity</th>
<th>Air Pressure</th>
<th>Float Switch</th>
<th>Features &amp; Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syringe Barrels, in Clear, Amber, Green, or Black</td>
<td>3cc–55cc (3–55 ml)</td>
<td>All Fluids</td>
<td>0-1.0 bar (0-15 psi)</td>
<td>—</td>
<td>· Limits fluid waste</td>
</tr>
<tr>
<td>Cartridge Retainer Systems with Regulators</td>
<td>2.5 oz–32 oz (75-960 ml)</td>
<td>All Fluids</td>
<td>0-7.0 bar (0-100 psi)</td>
<td>—</td>
<td>· Reduces maintenance and cleanup</td>
</tr>
<tr>
<td>1/10 Gallon Retainer System with Regulator</td>
<td>1/10 gal (300 ml)</td>
<td>Medium-to-High Viscosities</td>
<td>0-7.0 bar (0-100 psi)</td>
<td>Optional¹</td>
<td>· Assembly fluids often come packaged in EFD syringe barrels</td>
</tr>
<tr>
<td>1L &amp; 5L Precision Digital Gauge Tanks</td>
<td>1 liter &amp; 5 liter (0.26 gal &amp; 1.32 gal)</td>
<td>Low-to-Medium Viscosities (pourable / self-leveling)</td>
<td>0-1.0 bar (0-15 psi)</td>
<td>Optional¹</td>
<td>· Use for fluids with short shelf life</td>
</tr>
<tr>
<td>1L &amp; 5L Analog Gauge Tanks</td>
<td>1 liter &amp; 5 liter (0.26 gal &amp; 1.32 gal)</td>
<td>Low-to-Medium Viscosities (pourable / self-leveling)</td>
<td>0-7.0 bar (0-100 psi)</td>
<td>Optional²</td>
<td>· Clear retainer allows visual monitoring of fluid level</td>
</tr>
<tr>
<td>19L Stainless Steel Analog Tanks</td>
<td>19 liter (5 gal)</td>
<td>Low-to-Medium Viscosities (pourable / self-leveling)</td>
<td>0-7.0 bar (0-100 psi)</td>
<td>No</td>
<td>· Accepts cartridges</td>
</tr>
<tr>
<td>5-Gallon Pail Analog Tanks</td>
<td>19 liter (5 gal)</td>
<td>Low-to-Medium Viscosities (pourable / self-leveling)</td>
<td>0-7.0 bar (0-100 psi)</td>
<td>Yes³</td>
<td>· Designed for use with pre-filled caulking tubes</td>
</tr>
<tr>
<td>Ratio Pumps with 48:1 or 65:1 ratio</td>
<td>19 liter &amp; 208 liter (5 gal &amp; 55 gal)²</td>
<td>High Viscosities</td>
<td>up to 172.0 bar (2500 psi)</td>
<td>—</td>
<td>· Digital gauge delivers exceptional full-to-empty fluid pressure control, regardless of input pressure fluctuations</td>
</tr>
</tbody>
</table>

³ 5 liter (0.26 gal) tanks are available with capacitive (non-contact) fluid level sensor
² Please note that the ratio pumps do not come with 5-55 gallon tanks. Those are purchased separately.
¹ Low/empty drum indication with light towers.

Features & Benefits

<table>
<thead>
<tr>
<th>Production Capacity</th>
<th>Low Volume</th>
<th>Low-to-Medium Volume</th>
<th>Low-to-Medium Volume</th>
<th>Medium-to-High Volume</th>
<th>Medium-to-High Volume</th>
<th>High Volume</th>
<th>High Volume</th>
<th>High Volume</th>
</tr>
</thead>
</table>
Tanks, Reservoirs, and Pumps

Precision Regulator/ Digital Gauge
Fluid Reservoirs

7013460 Tank
1.0 liter Tank with 0–0.7 bar (0–10 psi) regulator.

7013489 Tank
1.0 liter Tank with 0–7.0 bar (0–100 psi) regulator.

7013430 Tank
5.0 liter Tank with 0–0.7 bar (0–10 psi) regulator.

7013490 Tank
5.0 liter Tank with 0–7.0 bar (0–100 psi) regulator.

All necessary fittings and feed tubing are included with each Fluid Tank.

1.0 Liter Fluid Tank
2.0 Liter Fluid Tank

Precision fluid tank pressure control is essential to ensure consistent, accurate deposits from the dispense valve. EFD’s precision regulator/digital gauge tanks offer exceptional full-to-empty fluid pressure control, regardless of input pressure fluctuations.

Available in 0–10 psi (0–0.7 bar) for low viscosity fluids and 0–100 psi (0–7.0 bar) for medium- to high-viscosity fluids.

Features and Benefits

- Precision fluid pressure regulation/digital readout for exact fluid pressure control
- Repeatability — from one shift to the next, precision regulator/digital gauge can be reset to exact pressure setting
- Tighter setting tolerances — pressures can be set to tenths of psi
- Fast response, robust pressure regulator

Specifications

**1.0 Liter Tank**
- Tank body: Cast aluminum
- Capacity: 1.0 liter
- Weight: 3.0 kg (6.60 lb)
- Height: 350 mm (13.75”)
- Diameter (cover maximum): 172 mm (6.75”)
- Maximum operating pressure: 7.0 bar (100 psi)
- Maximum operating temperature: 50° C (122° F)

**5.0 Liter Tank**
- Tank body: Cast aluminum
- Capacity: 5.0 liter
- Weight: 9.1 kg (20.1 lb)
- Height: 413 mm (16.25”)
- Diameter (cover maximum): 251 mm (9.85”)
- Maximum operating pressure: 7.0 bar (100 psi)
- Maximum operating temperature: 50° C (122° F)

Download CAD Models:
www.nordsonefd.com/CAD

“I wanted to let you know how much your company has helped me. You have excellent products and a great support group.”

— Puritan Bennet
EFD fluid tanks maintain steady fluid pressure, prevent fluid contamination and evaporation, and contain fumes. Tanks are available with 0-15 psi (0-1.0 bar) or 0-100 psi (0-7.0 bar) constant-bleed air regulators to handle different fluid viscosities.

The air regulator is selected based on fluid viscosity. Watery fluids require the 0-15 psi (0-1.0 bar) regulator, while thicker fluids need the 0-100 psi (0-7.0 bar) regulator. Since tanks are charged by plant air, we recommend the 5-micron filter/regulator (#7002002) to filter contaminants.

Each fluid tank is shipped complete with constant-bleed precision air regulator and gauge, air hose with shutoff valve, liner, and fluid feed tubing.
Tanks, Reservoirs, and Pumps

Nordson EFD’s 19L (5-gal) tanks are available for higher volume dispensing of low- to medium-viscosity fluids which are pourable or self-leveling. Two types are available.

Standard EFD stainless steel 19 Liter tanks are ideal for materials that do not require cleaning, such as oils, solvents, and water-based fluids. Tanks are unlined with a small opening to easily pour in your fluid. These tanks come with an analog gauge 100 psi or 15 psi regulator; an optional digital gauge is also available.

The second option is EFD’s stainless steel 19L (5-gallon pail) tank. Designed to allow the easy drop-in of pre-filled 5-gallon pails, this tank is shipped with an analog gauge, 100 psi regulator.

Each fluid tank is shipped complete with a constant-bleed precision air regulator and gauge, air hose with shutoff valve, and fluid feed tubing.

Nordson EFD Fluid Pressure Booster

The Nordson EFD Fluid Pressure Booster is designed to help move thick materials from a tank or cartridge to an EFD precision valve by boosting dispense pressure up to 100 bar (1450 psi).

The Fluid Pressure Booster increases the pressure applied to dispensed materials, facilitating the supply of high-viscosity greases, adhesives, and silicones. Its modular design allows quick and easy cleaning of all fluid-carrying components, making it particularly suitable for the supply of adhesives and reactive materials.

Designed for micro-dispensing of thick materials, Fluid Pressure Boosters work with EFD’s PICO Pulse valve systems, Liquidyn valves, and xQR41 needle valves.

Features and Benefits

- Modular design
- Transmission ratio of 1:13 allows you to achieve a material pressure of up to 1450 psi (100 bar)
- Only a 24V power supply is required for the operation of this standalone device

19L Fluid Reservoirs

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Pressure Regulator</th>
<th>Fluid Tank Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7020039</td>
<td>19.0 Liter Tank</td>
<td>7.0 bar (100 psi)</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>7020040</td>
<td>19.0 Liter Tank with Float Switch</td>
<td>1.0 bar (15 psi)</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>7006001</td>
<td>19.0 Liter Tank with Float Switch</td>
<td>7.0 bar (100 psi)</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>7020041</td>
<td>19.0 Liter Tank with Float Switch</td>
<td>1.0 bar (15 psi)</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>7362453</td>
<td>19.0 Liter (5-gallon pail) Tank</td>
<td>7.0 bar (100 psi)</td>
<td>Stainless steel</td>
</tr>
</tbody>
</table>

MicroCoat Tanks

See MicroCoat Lubrication System for details.

Fluid Pressure Booster

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Power Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>7825243</td>
<td>Fluid Pressure Booster</td>
<td>24V</td>
</tr>
</tbody>
</table>

Designed for micro-dispensing of thick materials.
Two styles of Cartridge Retainer Systems with Regulators are available — one uses disposable polyethylene liners in sizes of 2.5 fl oz (75 ml), 6.0 fl oz (180 ml), 12 fl oz (360 ml), 20 fl oz (600 ml), and 32 fl oz (960 ml). The second is a 1/10 gallon (300 ml) system for use with pre-filled caulking tubes.

Both systems include cap, cartridge, all necessary fittings, air tubing, regulator with gauge, and 1.5 m (5 ft) of 6 mm (0.24") OD polyethylene feed tubing.

Regulators supplied with cartridge reservoirs are precision, constant-bleed type to ensure consistent liquid pressurizing at all pressure settings.

Each reservoir includes a special tee fitting to connect both the reservoir and the controller to the EFD 5-micron filter/regulator (supplied with each ValveMate controller).

### CARTRIDGE RETAINER SYSTEMS WITH REGULATORS

<table>
<thead>
<tr>
<th>Part #</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7012431</td>
<td>2.5 fl oz (75 ml)</td>
<td>Cartridge assembly with 1.0 bar (15 psi) regulator</td>
</tr>
<tr>
<td>7012432</td>
<td>2.5 fl oz (75 ml)</td>
<td>Cartridge assembly with 7.0 bar (100 psi) regulator</td>
</tr>
<tr>
<td>7012434</td>
<td>6 fl oz (180 ml)</td>
<td>Cartridge assembly with 1.0 bar (15 psi) regulator</td>
</tr>
<tr>
<td>7012435</td>
<td>6 fl oz (180 ml)</td>
<td>Cartridge assembly with 7.0 bar (100 psi) regulator</td>
</tr>
<tr>
<td>7012437</td>
<td>12 fl oz (360 ml)</td>
<td>Cartridge assembly with 1.0 bar (15 psi) regulator</td>
</tr>
<tr>
<td>7012438</td>
<td>12 fl oz (360 ml)</td>
<td>Cartridge assembly with 7.0 bar (100 psi) regulator</td>
</tr>
<tr>
<td>7013889</td>
<td>20 fl oz (600 ml)</td>
<td>Cartridge assembly with 1.0 bar (15 psi) regulator</td>
</tr>
<tr>
<td>7012440</td>
<td>20 fl oz (600 ml)</td>
<td>Cartridge assembly with 7.0 bar (100 psi) regulator</td>
</tr>
<tr>
<td>7014100</td>
<td>32 fl oz (960 ml)</td>
<td>Cartridge assembly with 7.0 bar (100 psi) regulator</td>
</tr>
</tbody>
</table>

### 1/10 GALLON CARTRIDGE ASSEMBLY WITH REGULATOR

<table>
<thead>
<tr>
<th>Part #</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7018646</td>
<td>1/10 gal (300 ml)</td>
<td>Cartridge assembly for caulking tubes with 7.0 bar (100 psi) regulator</td>
</tr>
</tbody>
</table>
EFD’s Rhino® Bulk Unloaders are designed to dispense high-viscosity, ambient-temperature adhesives and sealants for a variety of manufacturing applications. These durable bulk unloaders provide superior flow properties and ease of operation when dispensing high-viscosity adhesive and sealant materials.

Package includes one Rhino pump assembly with output fittings sized for a 3/8” high pressure hose. Fittings are JIC, 37 degrees with 9/16-18 threads; one mastic regulator assembly with input and output fittings, fluid pressure gauge, air regulator, and gauge for air diaphragm.

**Features and Benefits**
- Works with EFD high-pressure valves
- Large internal passages for greater efficiency
- Fast air motor changeovers for uniform output
- Oil-less air motor
- Wear-resistant XDII “Scoreguard” hydraulic pump sections

**RHINO SELECTION GUIDE**

<table>
<thead>
<tr>
<th>Ratio</th>
<th>Air Motor Size</th>
<th>Volumetric Displacement</th>
<th>Maximum Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>48:1</td>
<td>10”</td>
<td>8 in³/stroke</td>
<td>4.2 liter/min.* (1.1 gal/min.)</td>
</tr>
<tr>
<td>65:1</td>
<td>10”</td>
<td>5.8 in³/stroke</td>
<td>2.8 liter/min.* (0.75 gal/min.)</td>
</tr>
</tbody>
</table>

* Output dependent on material viscosity, temperature, filters, and system configuration.

Add 152.4 mm (6") to height dimension for units with optional casters.
World Leader in Precision Fluid Dispensing
Nordson EFD’s worldwide network of experienced product application specialists are available to discuss your dispensing project and recommend a system that meets your technical requirements and budget.

Here are just a few things our customers have to say about working with us:

“We're producing better-looking parts in half the time.”
– ECM Motor Co.

“Our product is critical. That’s why our choice is EFD equipment.”
– Ethicon Endo Surgery

“Your system has several benefits compared to what we used before. We’re talking about 75% less consumption [of oil].”
– Gestamp Aveiro

“The quality of their product, as well as their knowledge and support, have been nothing short of excellent.”
– Look Tool & Automation Inc.

“Better control means over $50,000 in fluid savings annually.”
– Mitsubishi

“It’s not complicated. You set it up and it works.”
– Texas Instruments

“Applications support from Nordson EFD has been exceptional. They are quick to respond & give us the information needed.”
– Preh Ima Automation

“The quality of the packages that we put our products in matters. That’s why we use EFD syringes and cartridges.”
– Dymax