

Tanks, Reservoirs, and Pumps


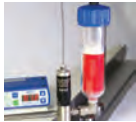








Nordson EFD reservoirs maintain steady fluid pressure to produce the most accurate, repeatable deposits possible. Bulk unloaders provide superior flow properties when dispensing high-viscosity adhesive and sealant materials.

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.



Tanks, Reservoirs, and Pumps Selection Guide

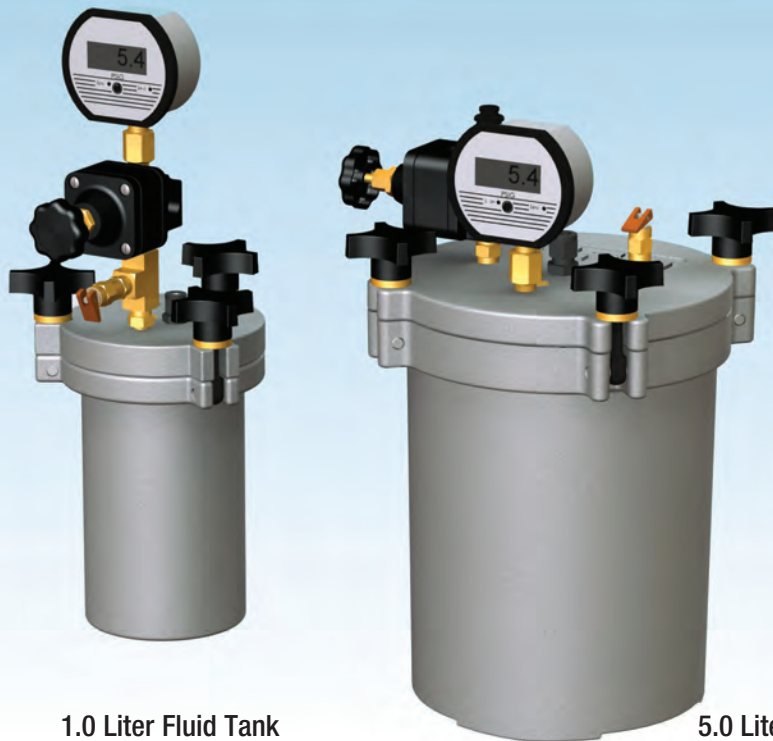
TANKS, RESERVOIRS, AND PUMPS								
Type	 Syringe Barrels, in Clear, Amber, Green, or Black	 Cartridge Retainer Systems with Regulators	 1/10 Gallon Retainer System with Regulator	 1L & 5L Precision Digital Gauge Tanks	 1L & 5L Analog Gauge Tanks	 19L Stainless Steel Analog Tanks	 5-Gallon Pail Analog Tanks	 Ratio Pumps with 48:1 or 65:1 ratio
Volume	3cc–55cc (3–55 ml)	2.5 oz–32 oz (75–960 ml)	1/10 gal (300 ml)	1 liter & 5 liter (0.26 gal & 1.32 gal)	1 liter & 5 liter (0.26 gal & 1.32 gal)	19 liter (5 gal)	19 liter (5 gal)	19 liter & 208 liter (5 gal & 55 gal) ²
Recommended Fluid Viscosity	All Fluids	All Fluids	Medium-to-High Viscosities	← Low-to-Medium Viscosities (pourable / self-leveling) →			High Viscosities	
Air Pressure	—	0–1.0 bar (0–15 psi) 0–7.0 bar (0–100 psi)	0–7.0 bar (0–100 psi)	0–0.7 bar (0–10 psi) 0–7.0 bar (0–100 psi)	0–1.0 bar (0–15 psi) 0–7.0 bar (0–100 psi)	0–1.0 bar (0–15 psi) 0–7.0 bar (0–100 psi)	0–7.0 bar (0–100 psi)	up to 172.0 bar (2500 psi)
Float Switch	—	—	—	Optional ¹	Optional ¹	Optional	No	Yes ³
Features & Benefits	<ul style="list-style-type: none"> · Limits fluid waste · Reduces maintenance and cleanup · Assembly fluids often come packaged in EFD syringe barrels · Use for fluids with short shelf life 	<ul style="list-style-type: none"> · Ideal for low-to-medium pressure dispensing from cartridges · Clear retainer allows visual monitoring of fluid level · Accepts cartridges 	<ul style="list-style-type: none"> · Designed for use with pre-filled caulking tubes 	<ul style="list-style-type: none"> · Digital gauge delivers exceptional full-to-empty fluid pressure control, regardless of input pressure fluctuations · Accepts pre-filled 1-pound and 1-liter bottles or pourable fluids 	<ul style="list-style-type: none"> · Maintains steady fluid pressure · Accepts pre-filled 1-pound and 1-liter bottles or pourable fluids 	<ul style="list-style-type: none"> · Maintains steady fluid pressure · Ideal for materials that don't require cleaning, such as oil, solvents, and water · Accepts only pourable fluids 	<ul style="list-style-type: none"> · Maintains steady fluid pressure · No pouring necessary · Eliminates risk of introducing air bubbles · Accepts pre-filled 5-gallon pails 	<ul style="list-style-type: none"> · Superior flow and easy operation for dispensing high-viscosity adhesives and sealants · Accepts pre-filled 5- and 55-gallon drums
Production Capacity	Low Volume	Low-to-Medium Volume	Low-to-Medium Volume	Medium-to-High Volume	Medium-to-High Volume	High Volume	High Volume	High Volume

¹ 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.

³ Low/empty drum indication with light towers.

Tanks, Reservoirs, and Pumps



1.0 Liter Fluid Tank

5.0 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

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.

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

– Puritan Bennet

Download CAD Models:
www.nordsonefd.com/CAD

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)

Tanks, Reservoirs, and Pumps



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.



**615 Series
1.0 Liter Tanks**
Accommodates one pound/one liter bottles. Recommended for pourable fluids only.



**626 Series
5.0 Liter Tanks**
Fluid can be poured into the liner or the fluid container may be put into the reservoir for direct dispensing.

Analog Gauge Fluid Reservoirs

7010004 615DTH Tank
1.0 liter tank with 7.0 bar (100 psi) regulator.

7020121 615DTL Tank
1.0 liter tank with 1.0 bar (15 psi) regulator.

7020120 615DTH-FS Tank
1.0 liter tank with 7.0 bar (100 psi) regulator and stainless steel low level float switch (suitable for use with most lubricants, fluxes, and solvents).

7020122 615DTL-FS Tank
1.0 liter tank with 1.0 bar (15 psi) regulator and stainless steel low level float switch (suitable for use with most lubricants, fluxes, and solvents).

7020186 626DTH Tank
5.0 liter tank with 7.0 bar (100 psi) regulator.

7020189 626DTL Tank
5.0 liter tank with 1.0 bar (15 psi) regulator.

7020187 626DTH-B Tank
5.0 liter tank with 7.0 bar (100 psi) regulator and black feed tubing for light-sensitive and UV-cure materials.

7020188 626DTH-FS Tank
5.0 liter tank with 7.0 bar (100 psi) regulator and stainless steel low level float switch (suitable for use with most lubricants, fluxes, and solvents).

7020190 626DTL-FS Tank
5.0 liter tank with 1.0 bar (15 psi) regulator and stainless steel low level float switch (suitable for use with most lubricants, fluxes, and solvents).

7362776 5L Tank
5.0 liter tank with 7.0 bar (100 psi) regulator and capacitive level sensor.

Specifications

615DTH / 615DTL Tanks

Tank body:	Cast aluminum
Replaceable liner:	Polyethylene (0.95 liter capacity)
Inside diameter:	9.7 cm (3.82")
Inside depth:	17.4 cm (6.87")
Overall width:	17.3 cm (6.81")
Overall height:	35.6 cm (14.01")
Regulator & gauge:	615DTH: 7.0 bar (100 psi) 615DTL: 1.0 bar (15 psi)
Maximum operating pressure:	7.0 bar (100 psi)

626DTH / 626DTL Tanks

Tank body:	Cast aluminum
Replaceable liner:	Polyethylene (3.8 liter capacity)
Inside diameter:	17.3 cm (6.81")
Inside depth:	24.8 cm (9.75")
Overall width:	28.3 cm (11.14")
Overall height:	40.6 cm (15.98")
Regulator & gauge:	626DTH: 7.0 bar (100 psi) 626DTL: 1.0 bar (15 psi)
Maximum operating pressure:	7.0 bar (100 psi)

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.

19L Fluid Reservoirs

Standard 19L Tanks

7020039 19.0 Liter Tank

19.0 liter stainless steel tank with 7.0 bar (100 psi) regulator.

7020040 19.0 Liter Tank

19.0 liter stainless steel tank with 1.0 bar (15 psi) regulator.

7006001 19.0 Liter Tank with Float Switch

19.0 liter stainless steel tank with 7.0 bar (100 psi) regulator and stainless steel low-level float switch (suitable for use with most lubricants, fluxes, and solvents).

7020041 19.0 Liter Tank with Float Switch

19.0 liter stainless steel tank with 1.0 bar (15 psi) regulator and stainless steel low-level float switch (suitable for use with most lubricants, fluxes, and solvents).

5-Gallon Pail Tank

7362453 19.0 Liter (5-gallon pail) Tank

19.0 liter stainless steel tank with 7.0 bar (100 psi) analog regulator, accepts pre-filled standard 5-gallon pails.

MicroCoat Tanks

See MicroCoat Lubrication System for details.



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.

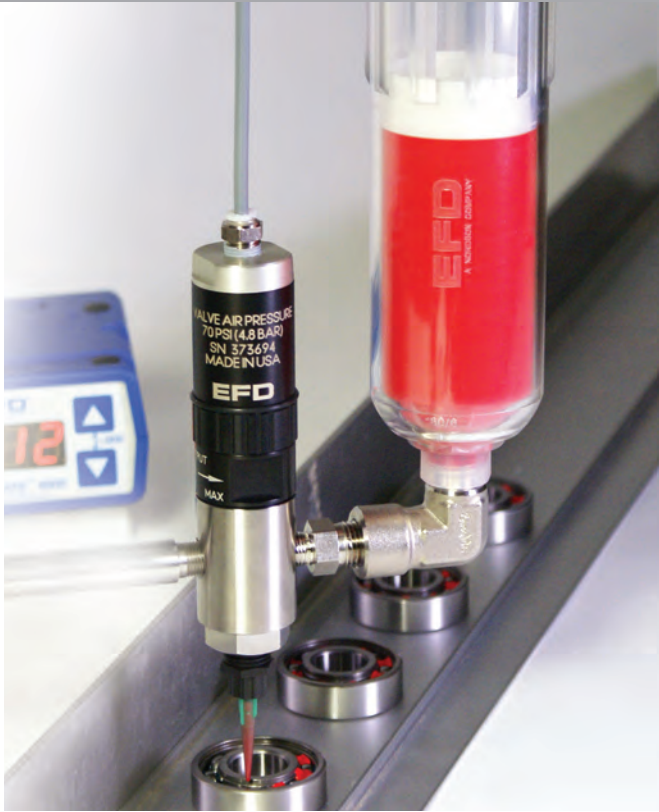
Features and Benefits

- 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

Fluid Pressure Booster

7825243 Fluid Pressure Booster

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

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

1/10 GALLON CARTRIDGE ASSEMBLY WITH REGULATOR

Part #	Size	Description
7018646	1/10 gal (300 ml)	Cartridge assembly for caulking tubes with 7.0 bar (100 psi) regulator



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."

– Lorik 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



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

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