

# Model DR Pump

**Large capacity, air-driven, dual-piston pump engineered for superior performance in high-speed container coating applications.**

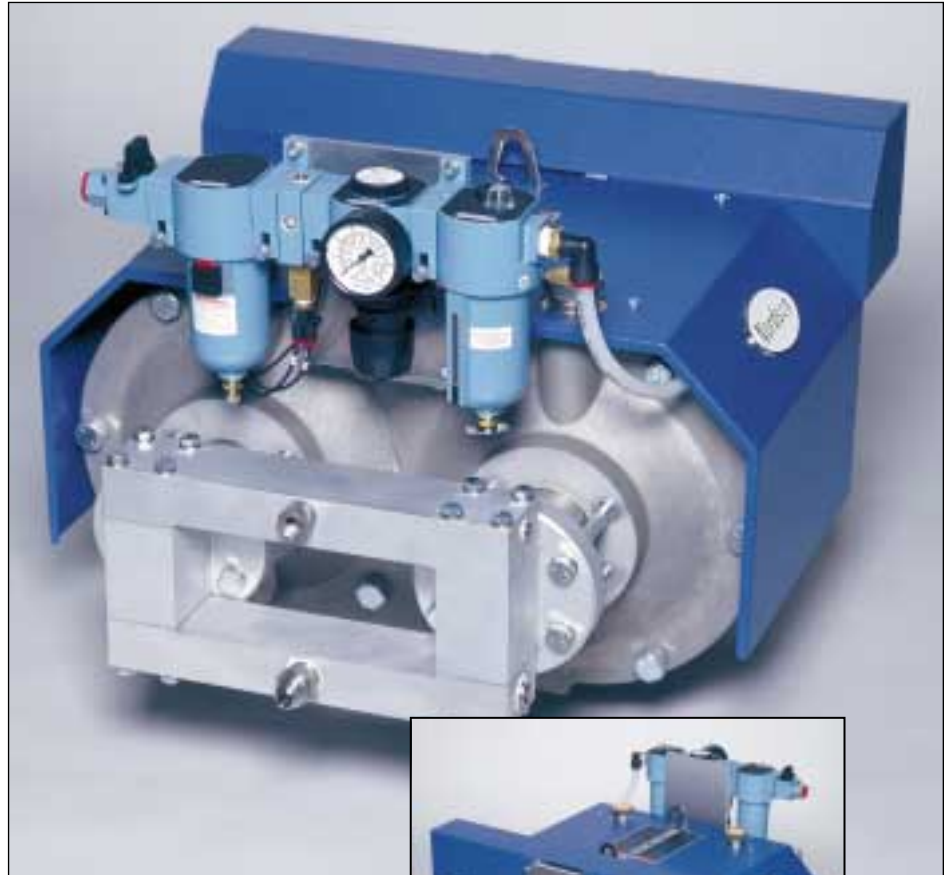
The Nordson model DR pump is an air-driven pump for use in the application of waterborne container coating materials and can be used in both heated and unheated delivery systems. Developed specifically for the container industry, the demand-type, dual-piston DR pump maintains constant fluid pressure throughout the pumping cycle to achieve the superior overall performance required in high-speed can coating applications.

## Improved Serviceability

The model DR pump is designed for fast, easy and safe maintenance. Components are simple in design and readily accessible for ease of on-line, routine servicing and reduced downtime. For corrosion resistance and compatibility with a variety of can coating materials, all wetted parts are made of aluminum and/or stainless steel.

## High Performance Operation

The model DR pump is designed for increased capacity at higher pressures. Maximum input air pressure is 80 psi. The DR pump is capable of producing 1200 psi hydraulic fluid pressure. It will supply multiple guns and deliver up to two gallons per minute at 45 strokes per minute.



## Accessories

The DR pump is equipped for non-circulating operation. Optional single circulation kits are also available.

## Features and Benefits

- **Simple design** facilitates quick replacement of air valve and hydraulic packing glands for easy on-line maintenance.
- **Dual reciprocating plungers** assure constant hydraulic pressure throughout the pumping operation.
- **Aluminum and/or stainless steel wetted parts** provide corrosion resistance and allow use of a variety of coating materials.
- **Improved muffler configuration** with production-proven mufflers helps prevent air-valve freezing.
- **Overlapping piston-stroke design** assures uniform and constant fluid pressure
- **Plastic air accumulator** minimizes hydraulic “wink” and will not fill with water or corrode.
- **Self-lubricated** air motor and air valve provide long service life.
- **Air filter/regulator/lubricator module can each be removed independently** without disassembly of the entire unit, reducing downtime.

## Technical Specifications

### Dimensions

Height: 18.5 in. (355 mm)

Width: 24 in. (610 mm)

Depth: 31 in. (840 mm)

Weight: 206 lbs. (93.5 kg)

**Minimum Air Supply:**  
1/2" ID

**Input Air Pressure:**  
80 psi (550 kPa) maximum

**Pressure Feed (if used):**  
20psi (138 kPa) maximum

**Fluid Pressure Output:**  
1200 psi (8300 kPa) maximum

**Maximum Fluid Delivery:**  
2.0 GPM at 45 strokes/min. (7.6 l/min.)

**Hydraulic Fluid Hose:**  
1/4 in. ID Nordson Reinforced  
Teflon\*

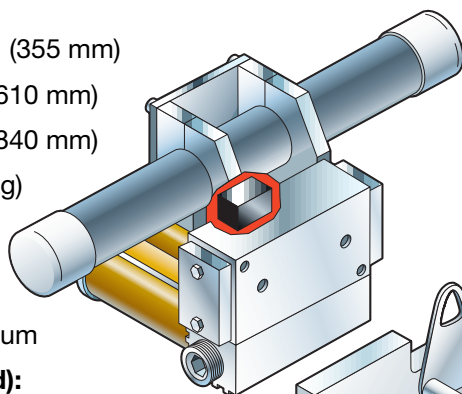
**Siphon Hose:**  
1/2 in. ID Nordson Nylon

**Drain-Off Hose:**  
3/8 in. ID Nordson Nylon

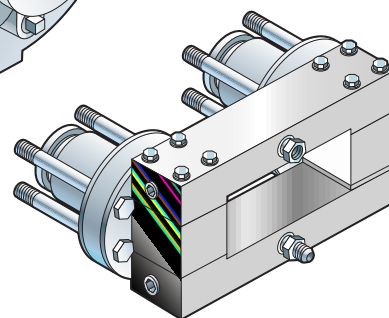
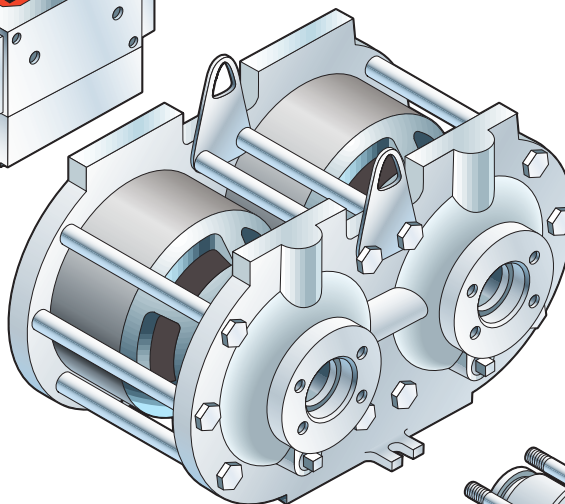
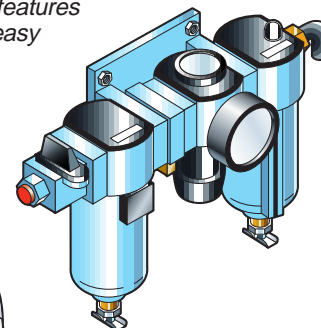
Note: Only Nordson hoses or equivalent Teflon® hoses with electrical continuity between fittings can be used with the DR pump. All hoses must be capable of withstanding 3000 psi (20,700 kPa).

\*Teflon is a registered trademark of E.I. DuPont de Nemours & Co.

Nordson reserves the right to make design changes to products to improve their function. These changes may occur between printings.



The Nordson model DR pump features modular construction, allowing easy maintenance and repair.



### Air Consumption (CFM)

Air Pressure	Strokes / Minute		
	25 Strokes / Minute	35 Strokes / Minute	45 Strokes / Minute
75 PSI (517 kPa)	13.88 FT <sup>3</sup> / Minute (0. 39 M <sup>3</sup> / Minute)	19.41 FT <sup>3</sup> / Minute (0. 55 M <sup>3</sup> / Minute)	24.96 FT <sup>3</sup> / Minute (0. 71 M <sup>3</sup> / Minute)
50 PSI (345 kPa)	10.0 FT <sup>3</sup> / Minute (0. 28 M <sup>3</sup> / Minute)	14.0 FT <sup>3</sup> / Minute (0. 40 M <sup>3</sup> / Minute)	18.0 FT <sup>3</sup> / Minute (0. 51 M <sup>3</sup> / Minute)
25 PSI (172 kPa)	6.41 FT <sup>3</sup> / Minute (0. 17 M <sup>3</sup> / Minute)	8.59 FT <sup>3</sup> / Minute (0. 24 M <sup>3</sup> / Minute)	11.05 FT <sup>3</sup> / Minute (0. 31 M <sup>3</sup> / Minute)

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4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX

Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48

Demande de prix / e-mail : service-commercial@motralec.com

www.motralec.com