

Model CP Pump

Vertically mounted, air-driven, dual-piston pump engineered specifically for container coating applications.

The Nordson® Model CP (Constant Pressure) Pump is an air-driven pump for the application of container coating materials in both heated and unheated delivery systems. Developed specifically for the container industry, the demand-type, dual-piston CP Pump maintains constant fluid pressure throughout the pumping operation for superior overall performance necessary in high-speed can coating applications.

Improved Serviceability

The Model CP Pump is constructed for fast, easy and safe maintenance. Components are simple in design and easily accessible for ease of on-line routine servicing and reduced maintenance costs and downtime. For corrosion resistance and compatibility with a variety of can coating materials, all wetted parts are made of stainless steel. Vertical mounting of the unit on a stand or on the wall eliminates the need for solvent chamber seals.

High-Performance Operation

The Model CP Pump is designed for increased capacity at higher pressures. Maximum input air pressure is 80 psi. The Model CP is capable of producing 1500 psi hydraulic fluid pressure. It will supply multiple guns and deliver one gallon per minute at 60 strokes per minute.

Accessories

The CP Pump is equipped for non-circulating operation. Optional single and dual circulation kits of stainless steel construction 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** provide constant hydraulic pressure throughout the pumping operation.
- **Vertical mounting** eliminates the need for solvent chamber seals.
- **Stainless steel wetted parts** provide corrosion resistance and allow use of a variety of coating materials.
- **Improved muffler configuration** helps prevent the air valve from freezing.
- **Overlapping piston stroke design** provides uniform and constant fluid pressure.
- **Simplified air valve design** with color-coded repair parts to aid in field repair.
- **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 be independently removed and replaced without disassembly of the entire unit to reduce downtime.
- **Polymer packing glands** with hydraulic seals made of a self-lubricating material for increased wear resistance and reduced maintenance.
- **Pressure relief/lock out valve** relieves hydraulic pressure safely and quickly for easy maintenance.

Specifications

Dimensions

Height 25 in. (635 mm)

Width 19 in. (483 mm)

Depth 13 in. (330 mm)

Weight

105 lbs. (48 kg)

Minimum Air Supply

1/2 in. ID

Input Air Pressure

80 psi (550 kPa) maximum

Pressure Feed (if used)

20 psi (138 kPa) maximum

Fluid Pressure Output

1500 psi (10,400 kPa) maximum

Maximum Fluid Delivery

1.0 GPM at 60 strokes/min.

(3.8 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 CP Pump. All hoses must be capable of withstanding 3000 psi (20,700 kPa). Pipe cannot be used in the high-pressure circuit.

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

Air Consumption (CFM)

Air Pressure	Strokes per Minute		
	20	40	60
80 psi	5.72 ft ³ /min. (0.16 m ³ /min.)	11.44 ft ³ /min. (0.32 m ³ /min.)	17.16 ft ³ /min. (0.48 m ³ /min.)
60 psi	4.44 ft ³ /min. (0.124 m ³ /min.)	8.88 ft ³ /min. (0.249 m ³ /min.)	13.32 ft ³ /min. (0.373 m ³ /min.)
40 psi	3.32 ft ³ /min. (0.092 m ³ /min.)	6.64 ft ³ /min. (0.186 m ³ /min.)	9.96 ft ³ /min. (0.279 m ³ /min.)
20 psi	2.12 ft ³ /min. (0.059 m ³ /min.)	4.24 ft ³ /min. (0.119 m ³ /min.)	6.36 ft ³ /min. (0.178 m ³ /min.)



The plungers and packing glands can be easily replaced on-line in 20 minutes.

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



®