

Constant Pressure (CP) Pump

Pump maintains constant fluid pressure for superior performance in automotive applications.



Features and Benefits

All Nordson automatic dispense valves incorporate the following features:

- **Overlapping pump stroke** provides uniform and constant pressure, eliminating fluctuations and pressure winks.
- **Independent output pressure** is not affected by inlet pressure. Uniform pressure provides smooth, uninterrupted material application.
- **Simple design** facilitates quick replacement of air valve and hydraulic packing glands for easy, on-line maintenance.
- **Self-starting inter-connection** automatically initializes both pumps whenever air pressure is activated.

The Nordson Constant Pressure (CP) Pump is an air-driven pump used in the application of automotive adhesive and sealant materials including high viscosity, cold-applied plastisols, epoxies and body sealers. Designed for use in demanding automotive production environments, the CP pump provides superior flow and pressure control.

Ease of Maintenance

The 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.

Nordson FastPack™ replacement packings are supplied in factory-assembled cartridges to provide a proper pump shaft seal and to minimize downtime. The self-adjusting packing gland does not require maintenance and eliminates failures caused by over tightening.



Packing cartridge being removed with screwdriver. Self-adjusting FastPack™ replacement packings are easy to replace and do not require maintenance.

High-Performance Operation

The Nordson CP pump solves the problem of pressure fluctuation seen in conventional double-acting pumps by uniting two single-acting, air-powered hydraulic pumps in a side-by-side configuration. One pump discharges while the other pump fills. Less time is required for filling than for discharging. As a result, one pump is filled and remains in a ready state before the first pump has finished discharging. Shifting from one pump to the other is controlled to provide adequate overlap in the pump strokes, eliminating pressure fluctuations.

In actual operation, pump A is activated, forcing the plunger downward and discharging material through the outlet check valve. When pump A approaches empty (or the end of its discharge cycle), pump B is automatically activated and begins supplying material. Pump A then refills and waits until pump B is nearly empty to automatically activate and begin the next cycle.



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Output

Ratio	AirMotor Size	Volume Repalce	Maximum Output
38:1	10"	10.4 cubic inches	2.7 gallons/minute 10.2 liters/minute
53:1	10"	7.4 cubic inches	1.92 gallons/minute 7.3 liters/minute

The Auto-Flo™ Dispensing Module

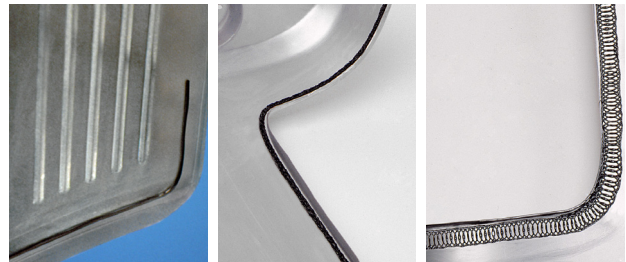
The Nordson Auto-Flo dispensing module is used with the CP pump for maximum performance. The Auto-Flo is an on/off automatic gun specially designed for use in applications requiring high-pressure dispensing at high flow rates.

Ideal for dispensing cold-applied, high-viscosity adhesives and sealants, such as those used with the CP pump, this high-performance dispensing module provides uniform material deposition, precise material placement, flow control and clean material cut-off.

The Auto-Flo dispensing module is capable of handling working pressures up to 5,000 psi. An air-activated to open feature provides full flow in all applications. A spring-closed with air-closed option prevents leaking under high pressures.

Application Versatility

Production requirements often change due to new parts, part styles, sheet metal tolerance or part nesting. To accommodate those changes, the CP pump with the Auto-Flo dispensing module can be easily integrated into dispensing systems that require maximum flexibility in changing dispense patterns. As a result, the system offers the ability to extrude material for closely controlled adhesive deposition and consistent bead profile; stream the material to avoid the risk of a dispensing muzzle touching or dragging a part; or swirl the material to save material costs and minimize sagging.



The CP pump can be easily integrated into systems that require maximum flexibility in changing dispense patterns to (from left to right) extrude, stream or swirl material.

Technical Specifications

Dimensions:	Height Width Depth Weight	55.2 in. 30.3 in. 32.5 in. 450 lbs.
Minimum Air Supply		40 psi (276 k PA)
Supply Air Pressure		70-100 psi (482-689 k PA)
Air Consumption		200 SCFM maximum (depending on cycle rate)

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Why choose Nordson

In highly competitive manufacturing markets, productivity is vital and performance is essential. That's why we apply both to everything we do, whether it's our products, expertise or outstanding customer service. We'll always be there to help maintain the new standards you've set, with expert service and support delivered through our teams working across the globe.

This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.

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