

# Model 25B Pump



## Versatile, air-operated, hydraulic pump for heated or unheated spray systems and fluid delivery applications.

### Features and Benefits

- **Reciprocating plunger and packing design** — reduces pump wear and maintenance costs.
- **Wide selection of “standard” packing materials** — for use with a variety of coating formulations.
- **Hard-chrome wear surfaces** — for long life using abrasive coatings.
- **Mounting versatility** — wall, drum, five-gallon pail or dolly mounting accommodates varying application requirements.
- **Standard type U packing glands** — offer excellent abrasion resistance with zero water absorption for much longer packing life.
- **Large, stainless-steel ball checks** — provide smooth fluid delivery with high-viscosity coating materials.
- **Large, enclosed solvent chamber** — lubricates plunger and increases upper packing life.
- **Mechanical air valve** — provides reliable, fast cycling action to minimize pressure fluctuations for a more uniform spray pattern.
- **Sheet metal cover** — protects pump from the hazards of normal industrial environments.
- **Patented ScoreGuard precision-ground, hard-chrome hydraulic plunger** — ensures long service life.
- **Air-operated pump** — can be safely used in hazardous locations with solvent-based coatings.
- **Self-adjusting hydraulic packing glands** — need no maintenance throughout their life and cannot be overtightened or neglected.



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- **Positive-displacement, demand-type pump.**
- **Available in 2:1, 4:1, 16:1, and 27:1 fluid-to-air ratios.**
- **Dual-acting, single-piston design.**
- **Patented ScoreGuard™ hard coated plunger.**
- **Circulating and non-circulating systems.**
- **Wall, drum, five-gallon pail or dolly mounting.**
- **Self-adjusting packings.**



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## Typical Applications

The Nordson model 25B pump is available in several fluid-to-air ratios. The 27:1 ratio pump is well suited for high-pressure, airless painting applications where heavy-bodied primers and coatings are sprayed, as in boat-yards, marine applications and miscellaneous metal fabrications. The 16:1 pump is used in heated paint applications and lower viscosity applications such as industrial enamels. The 4:1 and 2:1 versions are ideal for low-pressure, higher-volume applications including air-atomized paint systems.

The 16:1 and 27:1 versions of the 25B pump are available in stainless steel for corrosive and waterborne applications, as well as several non-paint applications including cold glue and adhesives.

## Specifications

Fluid-to-Air Pressure Ratio	4:1	16:1
<b>Nominal Operating Fluid Pressure Range*</b>	80-320 PSIG (6-22 kg/cm <sup>2</sup> )	320-1280 PSIG (22-90 kg/cm <sup>2</sup> )
<b>Fluid Delivery GPM (liters per minute) 15 cycles** per minute 30 cycles per minute 60 cycles per minute</b>	.75 (2.80) 1.50 (5.7) 3.00 (11.4)	.20 (.76) .40 (1.51) .80 (3.03)
<b>Pump Cycles Per Gallon Per Liter</b>	20 5.2	77 20
<b>Gallons Per Cycle</b>	0.050	0.013
<b>Liters Per Cycle</b>	0.195	0.050
<b>Air Requirements @ 15 cycles (60 PSIG or 4.22 kg/cm<sup>2</sup>)</b>	3.8 CFM (1.85 l/sec.)	3.8 CFM (1.85 l/sec.)
<b>Maximum Working Pressure</b>	350 PSIG (25 kg/cm <sup>2</sup> )	1500 PSIG (106 kg/cm <sup>2</sup> )
<b>Minimum Air Line Size Recommended (I.D.)</b>	3/8 in. (9.5 mm)	

\* Fluid pressure capability based upon a normal operating air pressure range of 20-80 PSIG

\*\* One cycle = 2 strokes

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