

# 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



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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	2:1	4:1	16:1	27:1
<b>Nominal Operating Fluid Pressure Range*</b>	40-160 PSIG (3-11 kg/cm <sup>2</sup> )	80-320 PSIG (6-22 kg/cm <sup>2</sup> )	320-1280 PSIG (22-90 kg/cm <sup>2</sup> )	540-2160 PSIG (39-152 kg/cm <sup>2</sup> )
<b>Fluid Delivery GPM (liters per minute)</b>				
<b>15 cycles** per minute</b>	1.50 (5.7)	.75 (2.80)	.20 (.76)	.12 (.45)
<b>30 cycles per minute</b>	3.00 (11.4)	1.50 (5.7)	.40 (1.51)	.24 (.91)
<b>60 cycles per minute</b>	6.00 (22.7)	3.00 (11.4)	.80 (3.03)	.48 (1.82)
<b>Pump Cycles Per Gallon Per Liter</b>	10 2.6	20 5.2	77 20	125 33
<b>Gallons Per Cycle</b>	0.100	0.050	0.013	0.008
<b>Liters Per Cycle</b>	0.39	0.195	0.050	0.030
<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.)	3.8 CFM (1.85 l/sec.)	3.8 CFM (1.85 l/sec.)
<b>Maximum Working Pressure</b>	175 PSIG (12.3 kg/cm <sup>2</sup> )	350 PSIG (25 kg/cm <sup>2</sup> )	1500 PSIG (106 kg/cm <sup>2</sup> )	2500 PSIG (176 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

**For more information, speak with your Nordson representative or contact your Nordson regional office.**

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LQL-11-0614  
Revised 6/11