



Model 25B Pump

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

Model 25B Pump

- 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.

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.

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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Specifications

Fluid-to-Air Pressure Ratio	2:1	4:1	16:1	27:1
Nominal Operating Fluid Pressure Range*	40-160 PSIG (3-11 kg/cm ²)	80-320 PSIG (6-22 kg/cm ²)	320-1280 PSIG (22-90 kg/cm ²)	540-2160 PSIG (39-152 kg/cm ²)
Fluid Delivery GPM (liters per minute)				
15 cycles** per minute	1.50 (5.7)	.75 (2.80)	.20 (.76)	.12 (.45)
30 cycles per minute	3.00 (11.4)	1.50 (5.7)	.40 (1.51)	.24 (.91)
60 cycles per minute	6.00 (22.7)	3.00 (11.4)	.80 (3.03)	.48 (1.82)
Pump Cycles				
Per Gallon	10	20	77	125
Per Liter	2.6	5.2	20	33
Gallons Per Cycle	0.100	0.050	0.013	0.008
Liters Per Cycle	0.39	0.195	0.050	0.030
Air Requirements @ 15 cycles (60 PSIG or 4.22 kg/cm ²)	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.)
Maximum Working Pressure	175 PSIG (12.3 kg/cm ²)	350 PSIG (25 kg/cm ²)	1500 PSIG (106 kg/cm ²)	2500 PSIG (176 kg/cm ²)
Minimum Air Line Size Recommended (I.D.)	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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These changes may occur between printings.

For more information, talk with your Nordson representative or contact your Nordson regional headquarters office.

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