

Walcom™ WM 302 Pressure Control



Pressure control for continuous applications accurately manages adhesive pressure even during line speed changes.



The Walcom WM 302 Pressure Control regulates the adhesive flow for continuous web applications such as bag and sack or converting where the adhesive guns operate continually while the line speeds accelerate and decelerate.

The pressure control activates and controls proportional valves and/or pneumatic adhesive pumping systems used with Nordson pneumatic adhesive guns. The pressure control unit has two outputs, allowing you to regulate the adhesive flow to multiple pneumatic guns, if needed. The control works standalone or in conjunction with a variety of Nordson pattern control systems to provide run-up.

The WM 302 prevents guns from operating below a user-specified line speed and provides a signal to the proportional valves, enabling them to adjust the

adhesive pressure to the pneumatic guns. This feature allows you to set a minimum desired line speed for gun activation and accurately control the adhesive pressure during line start and stop conditions.

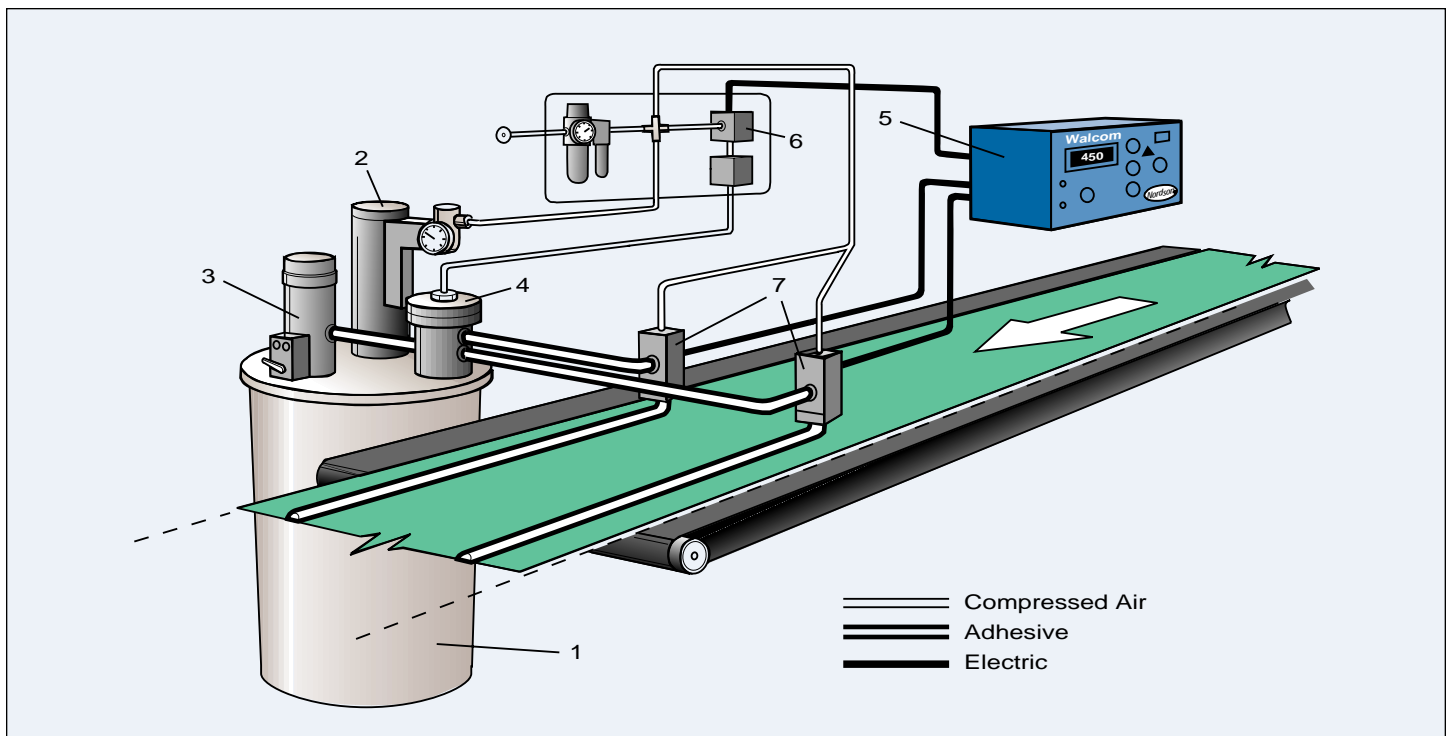
All system components are designed to meet UL and CSA standards. The system has received CE certification.

Features and Benefits

- Automatic pressure-to-line-speed control maintains consistent adhesive output at varying line speeds, delivering the proper amount of adhesive to your product.
- Diagnostics simplify troubleshooting and increase uptime. The WM 302 diagnostics indicate broken or disconnected valves, line speed below minimum setpoint, short circuited guns and gun current exceeding 1 amp.

- Selector switch and control knobs for parameter selection make setup easy.
- Digital readout for line speed, current outputs on proportional valves, and minimum line speed setting simplifies setup and monitoring.
- Integrated 24 VDC power supply fulfills the power source requirement to operate the pneumatic guns. Automatic power adaptation between 100 and 240 VAC simplifies setup and requires no jumpers or transformers.

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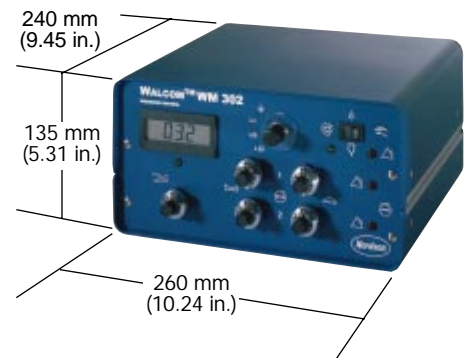


Adhesive travels from the container (1), through the pump (2), on through the filter (3) to the pressure regulator (4). Depending on the speed of the production machine, the WM 302 Pressure Control (5) sends a current between 0 and 20 mA to the proportional valve (6). This current controls the position of the diaphragm inside the pressure regulator (4). A change in the position of the diaphragm in the pressure regulator alters the adhesive pressure at the pneumatic guns (7).

Specifications

Electrical Service:	100 - 240 VAC, 0.6 A, 50/60 Hz
Encoder:	24 VDC NPN input 1 pulse/mm ratio 1 - 10 kHz + 0 - 600 m/min (1,968.6 ft/min)
Output Current for Proportional Valves:	2 x 0 - 20 mA with indication of open outputs via LED
Minimum Speed:	Adjustable; 4 - 300 m/min (13.1 - 984.3 ft/min) with hysteresis of ± 0.5 m/min (1.64 ft/min)
Output Current for Pneumatic Guns:	0.8 A with overcurrent indication above 1.0 A via LED
Weight:	2 kg (4.41 lb)

Dimensions



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