

P4

Automatic Range Expander

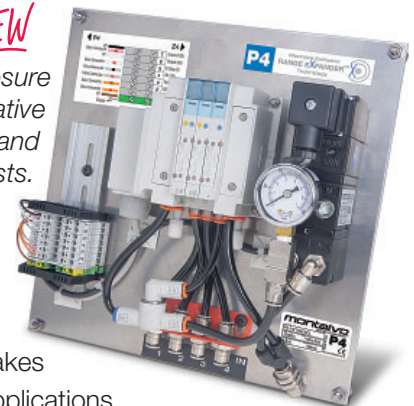


Montalvo P4 Automatic Range Expander

Montalvo's P4 Automatic Range Expander allows the widest range of rolls sizes and tensions to run consistently and accurately on the same unwind application. Combined with a properly sized Montalvo tension brake and our Z4 (or any 3000 series) load cell or dancer based tension controller, as tension changes, the P4 maintains the proper operating range and precise tension control from high torque ranges to low torque ranges, while the controller automatically compensates for any changes to provide the optimal level of output to maintain constant and accurate tension during range transitions.

Achieve controlled starts and stops, running high mass rolls at lighter tensions (i.e. films and foils), running low torque and tension applications that require high torque to stop (i.e. sheeters), eliminates tension-related web breaks, and maximizes production.

NEW
A non-enclosure version for an alternative installation option and lower costs.



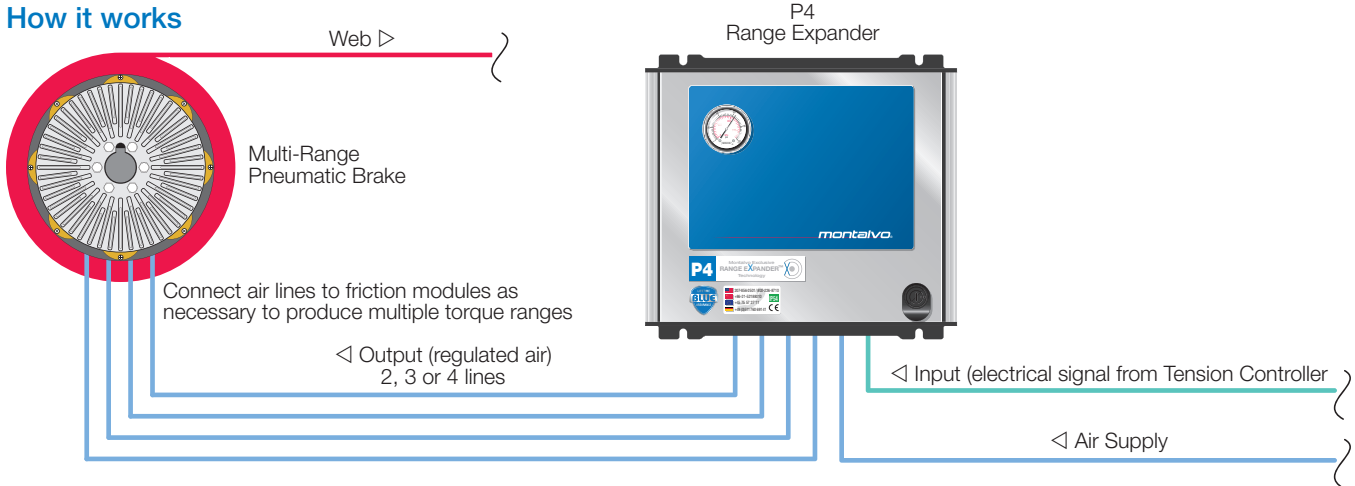
Features & Benefits

- ▶ **Ideal for Large Rolls of Thin Material** - eliminates difficult matching of torque, tension, and stopping requirements
- ▶ **Automatic** - automated control of individual cylinders on multiple range brakes
- ▶ **Maximum Application Compatibility** - works with load cell and dancer applications
- ▶ **Analog Readout Gauge** - for easy, convenient pressure monitoring
- ▶ **Emergency Stop Valve** - automatically switches from regulated to line pressure during E-stops or power failure
- ▶ **Complete Pneumatic System** - MPC-4 I/P Converter, Pressure Gauge, 4 Solenoids and Quick Disconnect Terminals

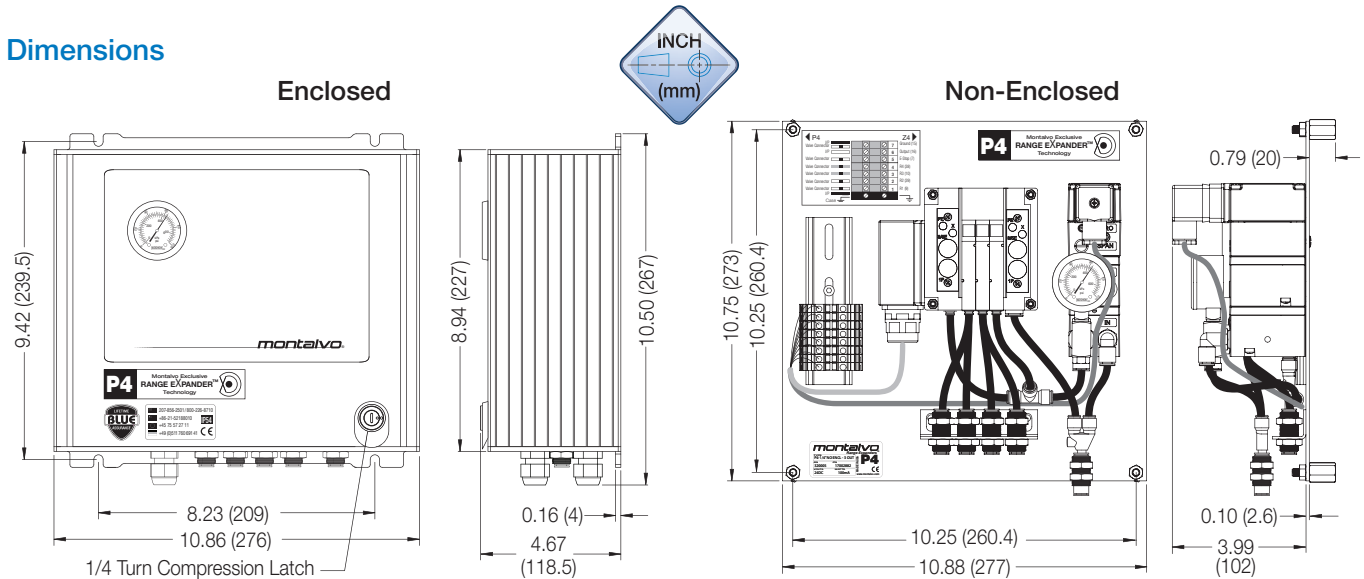
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Automatic Range Expander

How it works



Dimensions



Specifications

Models

Enclosed - P4 with 1/4" fittings	11001190
Enclosed - P4 with 6mm fittings	11001206
Non-Enclosed - P4 with 1/4" fittings*	11001339

*Available with 6mm fittings upon request.

Functions

E Stop	Yes
Available Ranges	2, 3 or 4
Range Configuration*	Z4 Controller Software

*Brake requires manual plumbing setup as explained in P4 and Z4 manuals.

Electrical

MPC-4 I/P Converter (11000199) Supply	4-20 mA
Solenoid Valve Supply	24 VDC
Solenoid Valve Power Consumption (per valve)	0.6 W

Pneumatics

Pneumatic Inlet Pressure	80-150 psi (5.5-10.4 bar)
Pneumatic Tube/Fitting Size	Ø1/4" (6 mm optional)
Pressure Gauge	0-100 psi (0-7 bar)
Pneumatic Outlet/Fitting Size	Ø1/4" (6 mm optional)
I/P Converter Flow	11 SCFM @ 9 psi (5.19 l/s @ 0.62 bar)
I/P Converter Pressure	0-75 psi (0-5.2 bar)
I/P Converter Accuracy	1%
Emergency Stop Valve Flow Rate	11 SCFM (5.19 l/s)
Range Expander Valve Flow Rate	8.0 SCFM (3.78 l/s)

Standards

Material Fire Classification

Recommended Product

Montalvo MAF-3 Air Filter

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Technical details subject to change without notice. P4-US-02 © Montalvo