



PNEUMATIC INTERFACE MODULE



PRODUCT DESCRIPTION

To enhance the Slipstick horizontal motion conveyor, Triple/S Dynamics offers a fully integrated gate/flow inhibitor control package-the Pneumatic Interface Module (PIM). The PIM serves as an interface between PLC/level control monitors and Slipstick gates and flow inhibitors. The primary function of the PIM is to regulate the activity of these components-opening and closing the appropriate gates and flow inhibitors as needed. In addition, the PIM can be configured to meet a great variety of plant-preferred applications.

SPECIFICATIONS

Requirements:

- Air: 60-90 psi
- Electrical: 120 VAC
- 24 VDC (optional)

PIM Enclosure Options:

- Stainless Steel
- Powder Coat Epoxy

Valve Options:

- MAC
- Asco-Redhat
- Pneumatic

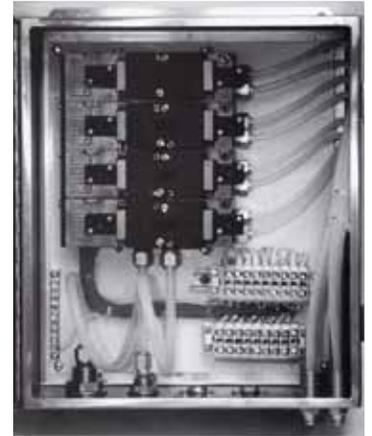
COMPONENTS

The PIM includes:

- A terminal block - to direct incoming electrical signals
- An air regulator and gauge - to control incoming air pressure levels
- A solenoid coil - to actuate valves
- Valves (one per gate and one per flow inhibitor)
- 60 psi output ports - to open and close cylinders
- A hinged enclosure - to protect the PIM
- A muffler - to diffuse purged air

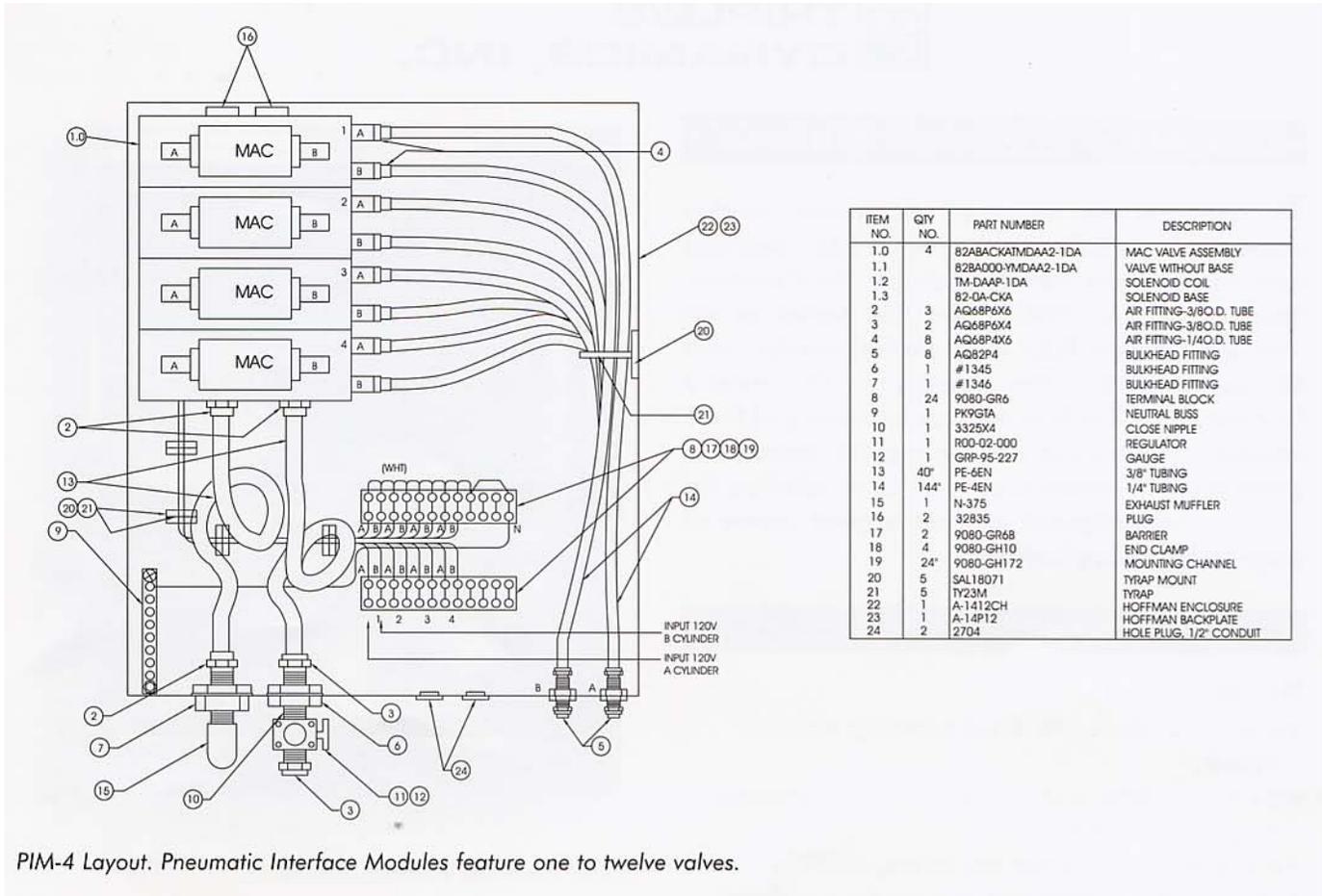
CONFIGURATION

The signal generated by a level control monitor (ex. an ultrasonic or photo sensor) is transmitted to the PLC, processed, and then directed to the terminal block inside the PIM. Next, the signal travels to the solenoid valve, which applies air pressure to the cylinder-opening or closing appropriate Slipstick gate or flow inhibitor. Each Slipstick gate includes flow valves for speed control. The PIM can incorporate one to twelve valves, allowing control of up to twelve gates and/or flow inhibitors. For more details of the PIM layout, note the schematic included with this description (on back).





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PIM-4 Layout. Pneumatic Interface Modules feature one to twelve valves.

FPIM: ANOTHER LEVEL OF CONTROL

For applications where a plant-supplied PLC and timer logic are not available, Triple/S Dynamics offers the FPIM. The FPIM combines the features of the PIM with a PLC timer integrated into the standard hinged enclosure. The addition of the PLC timer allows the FPIM to coordinate the timing and actuation of the flow inhibitor, maximizing clean, product-free gate closures. The FPIM is configured into the Slipstick conveyor system as any other gate control device. In addition, the FPIM can be configured to meet a great variety of plant-preferred applications.



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