



Liquid Pump Control Saves Time, Money and Energy

Challenge:

A manufacturer of liquid pump controls contacted Pneumadyne to re-design their pneumatic circuit. Their existing equipment consisted of numerous fittings, ball valves and individual components which were difficult and time-consuming to assemble and resulted in multiple potential leak-points.

Requirements

- Reduce overall power consumption of the circuit
- Meet specific high flow requirements
- Regulate system pressure
- Reduce the number of potential leak points
- Isolate the individual circuits

Solution:

By integrating components, Pneumadyne Engineers were able to eliminate potential leak-points, improve the appearance of the circuit and reduce the customer's field assembly time and cost.

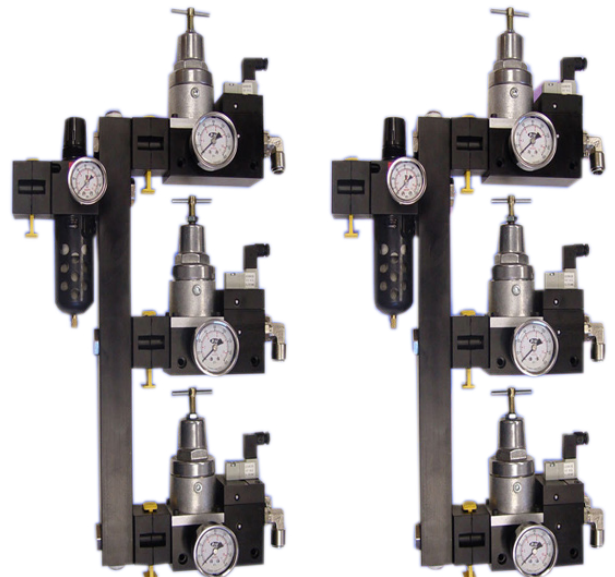
- Valve blocks feature two of Pneumadyne's new C500 Pilot Operated Cartridge Valves
- Shut-off blocks are included to isolate the circuitry
- Filter/regulator
- In-line pressure gauges provide constant input and output pressure reading
- A surface mount regulator is integrated in the valve block and controls
- Three output ports feature swivel push-to-connect elbows for tubing alignment purposes
- Power consumption was reduced from 12 Watts by using a 1 Watt solenoid as a pilot to operate the internal cartridge valves

Benefits:

- **Single input port supplies pressure to all circuits**
- **Modular design accommodates single, double, or triple circuits for customer's application**
- **Reduced customer's assembly time and cost**

Other Applications:

- **Food Processing**
- **Filling/Dispensing**
- **Bottling**



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