

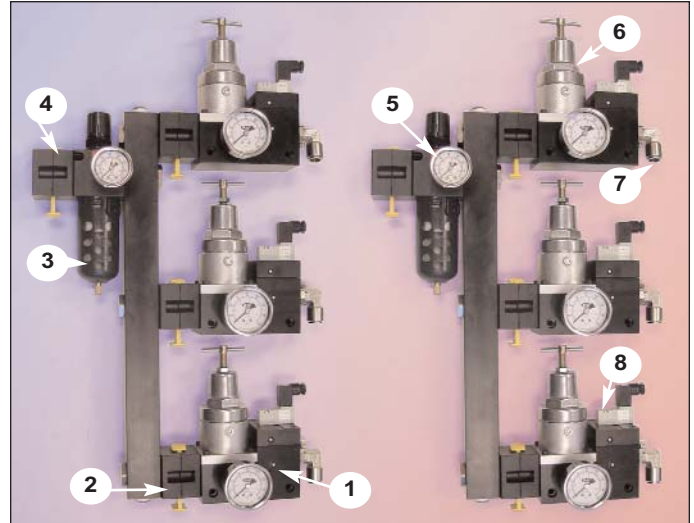
Liquid Pump Control Features Pneumadyne's New Pilot Operated Cartridge Valves

Customer Application:

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.

Application Requirements:

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



Pneumadyne's 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.

1. Valve blocks feature two of Pneumadyne's new C250 Pilot Operated Cartridge Valves
2. Shut-off blocks are included to isolate the individual circuits
3. Filter/Regulator
4. A single input port supplies pressure to all three circuits
5. Inline pressure gauges provide constant input and output pressure reading
6. A surface mount Regulator is integrated in the valve block and controls system pressure for the individual circuit
7. Three output ports feature swivel push-to-connect elbows for tubing alignment purposes
8. Power consumption for each circuit was reduced from 12 Watts by using a 1 Watt solenoid as a pilot to operate the internal cartridge valves

The modular design of the assembly easily accommodates single, double or triple circuits in the customer's application



Plymouth, MN 55447