

Compact Valve Banks Provide Space Savings

Challenge:

A manufacturer of test equipment for the medical field contacted Pneumadyne engineers to develop a circuit to operate the sampling cylinders in a Nucleic Acid Purifier for DNA archiving. The system was required to draw, transfer, and eject DNA samples with zero loss.

Requirements

- Leak free
- Operate at a very low pressure
- Compact size
- Accommodate a row of 8 cylinders

Solution:

Pneumadyne engineers designed a custom manifold and installed our 10mm solenoid valves to satisfy the requirements of this application. Two valve banks, one normally closed and one normally open, are used to perform the sampling function.

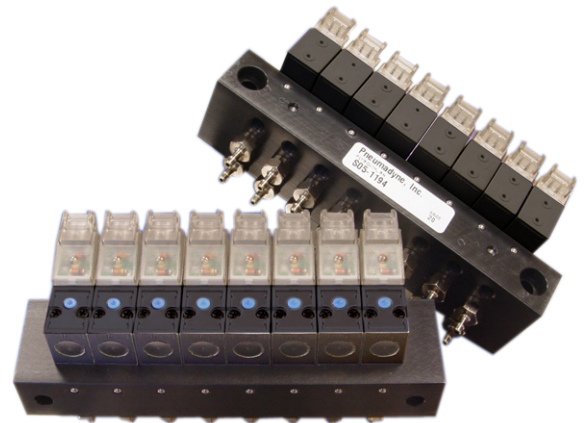
- 8-station valve bank
- 10mm solenoid valves
- Custom manifold
- Pneu-Edge® fittings
- Normally closed and normally open design

Benefits:

- Low pressure operation
- Compact design saves space
- Custom manifold features two valve banks

Other Applications:

- Fluid Handling
- Food Processing
- Packaging



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