



Other Applications:

- > Dispensing
- > Packaging
- > Material Handling



Custom Valve Assembly Eliminates 25 Components in a Medical Device

Challenge:

A manufacturer of medical equipment invited us to evaluate a new trauma device that they were developing. They had mocked up the pneumatic system using individual components from various competitors and asked us to suggest improvements for their system.

Requirements:

- > Design a circuit that would fit inside the customer's existing equipment mold
- > Decrease the time required to assemble and install the circuit
- > Meet specific flow and pressure requirements at a pump pressure of 7 psi
- > Provide pressure sensing feedback to the equipment's computer
- > Eliminate potential leak-points

Solution:

Our Sales and Engineering teams designed the complete circuit, including the actuators, and proposed an integrated solution that reduced the number of components from 29 to just 4. Pneumadyne's integrated solution

eliminated numerous potential leakpoints and reduced the amount of time needed to plumb the pneumatic circuit.

In addition to the block assembly, we also designed and built the unique double acting rolling diaphragm cylinder with position feedback shown here. This cylinder had to function without hesitation at 1.5 psi.

Benefits:

- > Reducing components saved customer money
- > Push-to-connect fittings for quick installation
- > Built-in reservoir for quick reaction
- > Four solenoid valves control cylinder and various functions within the circuit
- > Eliminated potential leak-points

For further information:

Visit www.bimba.com/en/Solution-Centers/Industry-Solutions-Center/
Contact Bimba at 1-800-44-BIMBA or cs@bimba.com

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