



# ARD Series Miniature Proportional Valve

Kelly Pneumatics' ARD Series Valves bridge the gap between traditional solenoid-style proportional valves and solutions that maximize flow capacity while maintaining a smaller valve size. Using reliable, proven technology, the ARD Series Miniature Proportional Valves deliver flow rates of up to 400 SLPM while maintaining a compact, miniature design. The valve offers a 100,000:1 turndown ratio, allowing for accurate control at low flow rates and excellent maximum flow capacity. This product is an ideal solution for medical device applications facing challenges such as leak-by or oscillation issues—especially in respiratory therapy.

## Product Features

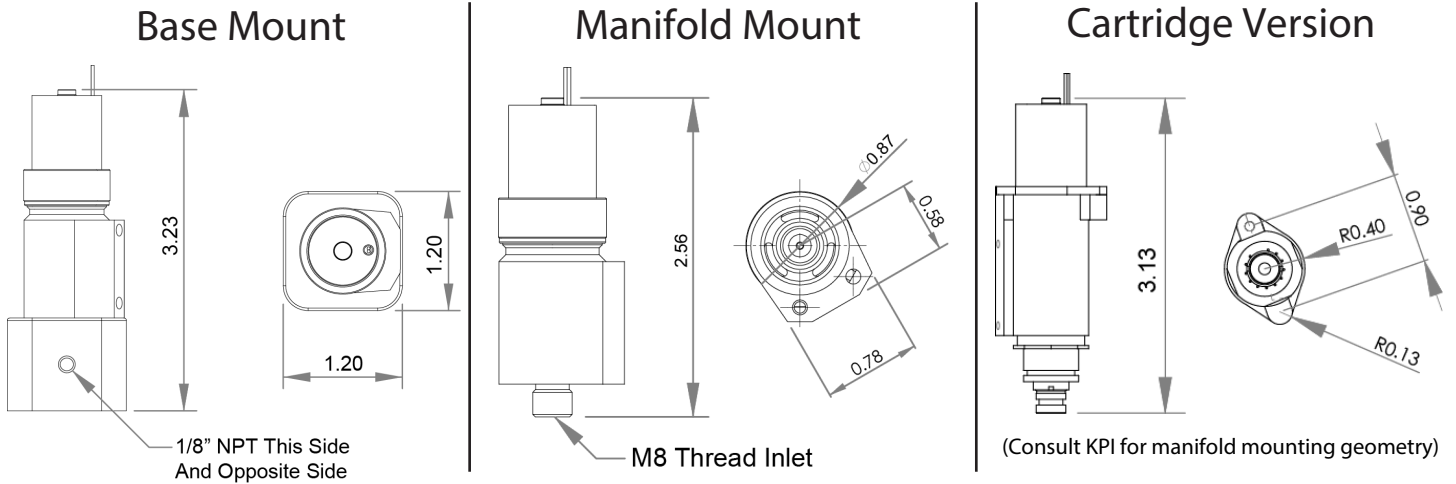
- **Unique high-force armature eliminates leak-by and oscillation issues typical to balanced valves**
- **High resolution low-flow control, offering precise control from lift-off to max flow**
- **Custom Port Options: Inline, Manifold, and Cartridge**
- **CV Factor of up to .366**
- **Low power consumption (1.8 watts)**



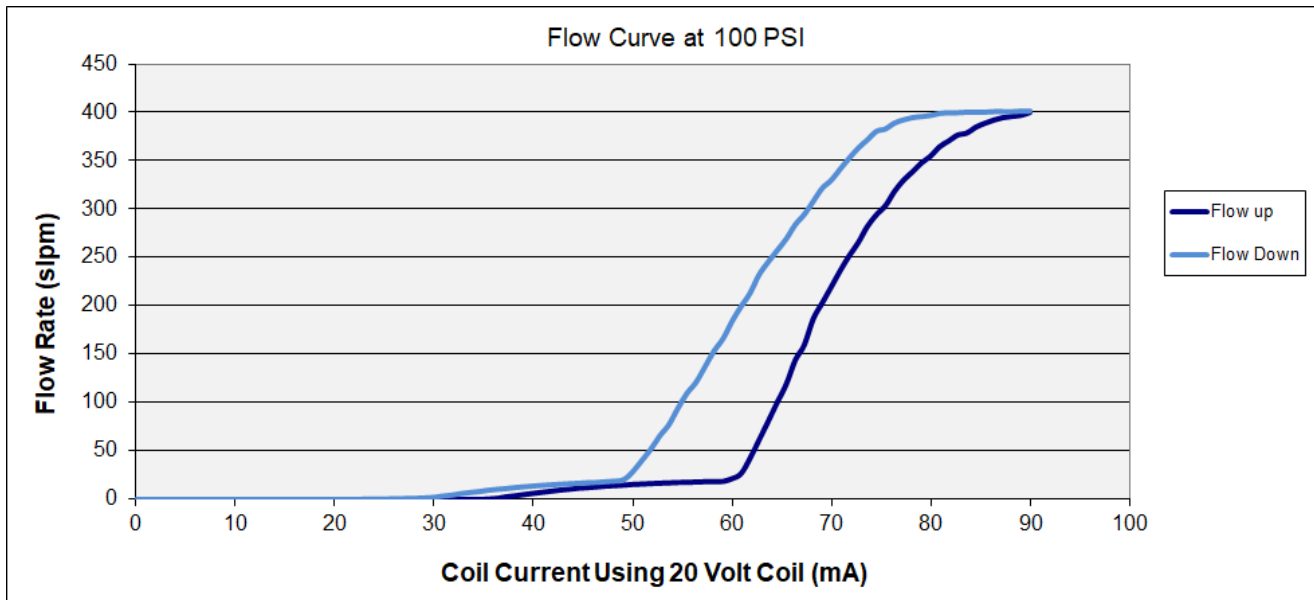
## Specifications

|                                |  |
|--------------------------------|--|
| Valve Function                 | 2 Way, Normally Closed   |
| Electrical Connection          | Flying Wire Leads  |
| Control Voltages               | 0-5 vdc, 0-10 vdc or 0-20 vdc  |
| Power Requirement              | 1.8 watts (max)  |
| Flow Range                     | 0 - 400 slpm of air (at 100 psi)   |
| Working Pressure               | -14.7 to 150 psig  |
| Cv Factor                      | 0.065 to 0.366   |
| Differential Pressure Required | 15 psig minimum  |
| Turndown Ratio                 | 100,000:1  |
| Leak Rate                      | Bubble Tight Seal  |
| Response Time                  | <10 ms   |
| Port Types                     | Manifold Mount, 1/8 NPT Inline, Custom   |
| Seal Material                  | Buna-N, Viton, EPDM, Custom  |
| Wetted Materials               | Cold rolled stainless steel w/ electroless nickel plating, brass and 304 stainless steel |

# Dimensions



# Flow Characteristics



# Part Numbering System

