



Plastic Valve Makes Toxic Gas Testing Safer

Challenge:

Testing the levels of toxic gases in a mine's atmosphere is crucial for the protection of miners. A manufacturer of these testing devices contacted Pneumadyne for a valve that could fit in the equipment that had already been designed for this application. The materials of construction also had to be considered to ensure that the valve would not cause a spark if exposed to a toxic gas.

Requirements:

- Valve had to be manufactured from plastic
- Low actuation force
- Fit specific thickness requirement

Solution:

When evaluating a customer's fluid handling circuit, we occasionally find that modifications can be made to standard products to fit the application. Our standard "400" Series control valve configuration was ideal for this project, however, a few minor changes were necessary to accommodate the environment and size requirements.

- An acetal valve body and internals to prevent spark
- Custom ground material to fit the measuring device

Benefits:

- Acetal valve body and internals prevent sparks
- Custom ground material to fit measuring device
- Plastic design offers corrosion resistance

Other Applications:

- Printing Equipment
- Medical
- Chemical Processing



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