



Flow Sensor Selection

10
Tips



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How to select the right flow meter?

Compressed air and gas flow meters are essential devices for measuring and monitoring the flow rate of compressed air and gases in industrial and commercial applications. They are designed to accurately measure the flow of gases such as nitrogen, oxygen, carbon dioxide, and more.

10 Tips for your selection

The selection criteria for a compressed air flow meter will depend on the specific application and requirements of the compressed air system.

Here are ten tips to guide you in making the right choice:

1 Define Your Application Requirements

Clearly outline your specific application requirements, including the type of gas or compressed air, flow rate range, pressure, temperature, and any other critical parameters.

2 Consider the Gas or Air Characteristics

Different gases and compressed air may have unique properties. Choose a flow meter that is compatible with the characteristics of the gas or air you are measuring, such as its viscosity, density, and corrosiveness.

3 Determine the Flow Range

Select a flow meter that covers the entire flow range of your system, ensuring accurate measurements under both minimum and maximum flow conditions.

4 Installation and Maintenance

Consider the ease of installation and maintenance. Flow meters with flow conditioners or with compact sizes are more flexible to install. Also consider how frequent the maintenance needs to be performed.

5 Accuracy and Repeatability

Evaluate the flow meter's accuracy and repeatability specifications. Choose a model with the required level of precision for your application.

6 Material Compatibility

Ensure that the materials used in the flow meter construction are compatible with the gas or compressed air being measured to avoid corrosion or contamination.

7 Environmental Conditions

Consider the environmental conditions in which the flow meter will operate, such as temperature, humidity, outdoor, and potential exposure to dust or chemicals.

8 Communication and Data Output

Choose a flow meter with suitable communication options to integrate with your system. Look for models that offer analogue, digital, or network communication protocols for seamless data transfer.

9 Calibration and Certifications

Verify whether the flow meter is calibrated and certified according to relevant industry standards to ensure accurate and reliable measurements.

10 Costs

The cost of the flow meter should be considered in relation to the benefits it provides, such as improved accuracy and reliability.

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Talk to us

If you are uncertain about the best flow meter for your application, consult with our experts who can provide valuable insights and recommend the most suitable solution based on your specific needs.



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