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# Control Valve Terminology

**Approved 9 December 2016**

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## 1 Scope

This document contains terminology for control valves.

## 2 Purpose

To provide a glossary of definitions commonly used in the control valve industry.

## 3 Definitions

### 3.1 accuracy:

the degree of conformity of an indicated value to a recognized accepted standard value or ideal value.

### 3.2 accessories:

devices usually attached to the actuator for various control functions such as positioners, relays, solenoid valves, airsets, handwheels, and limit switches.

### 3.3 actuator:

a pneumatic, hydraulic, or electrically powered device that supplies force and motion to position a valve's closure member at or between the open or closed position.

#### 3.3.1 bellows actuator:

a fluid powered device in which the fluid acts upon a flexible convoluted component, the bellows.

#### 3.3.2 diaphragm actuator:

a fluid powered device in which the fluid acts upon a flexible component, the diaphragm. (See Figure 1.)

#### 3.3.3 double-acting actuator:

a device in which power is supplied in either direction. (See Figure 2.)

#### 3.3.4 electrohydraulic actuator:

a device that converts electrical energy to hydraulic pressure and into motion.

#### 3.3.5 electromechanical actuator:

a device that converts electrical energy into motion.

#### 3.3.6 hydraulic actuator:

a fluid device that converts the energy of an incompressible fluid into motion.

#### 3.3.7 piston actuator:

a fluid powered device in which the fluid acts upon a movable piston to provide motion to the actuator stem. (See Figure 2.)