

Type 10

Pressure Regulator Series

Features

Highly Accurate Pressure Regulation

The Bellofram Type 10 Regulator controls output pressure with an accuracy of 0.1%, and has very low sensitivity to changes in supply pressure and flow.

Start-Up Stability

The Type 10 Regulator has been designed to eliminate the need for any readjustment of the regulated pressure after long "down time." At start-up, the regulated pressure will return to its output setting.

Flow Stability

The regulated pressure is held constant over substantial changes in flow due to the high-gain pneumatic servo amplifier. Particularly good from dead end to 20 cubic meters per hour (12 SCFM).

Automatic High Downstream Relief Capacity

An integral relief valve provides for exhaust flow whenever the regulated pressure is reset to a lower value. The exceptionally large capacity of this relief valve assures immediate response when the downstream regulated pressure must be reduced under dead-end conditions.

Pressure Stability

A high performance servo-operated control mechanism is utilized in the regulator. The pressure supplied to the pneumatic servo amplifier is reduced and held constant.

Locking Capability

The standard Type 10 regulator has a locking nut which, when tightened, prevents inadvertent adjustment of pressure.

Temperature Stability

Shifts in the regulated pressure over wide ambient temperature variations are minimized by the use of a measuring capsule made of specially selected stainless steel alloys.

Proven Reliability

Thousands of Type 10 Regulators are in the field. Proof of the accuracy of the regulator is reflected by its use in most air gauging systems and other precision pressure control applications.

Mounting

The unit may be installed in any position. It can be panel mounted or supported by in-line plumbing.

Applications

Industrial processes, inspection procedures, control and analytical instrumentation require precise regulation of air pressure in pipes and vessels. Maintaining constant pressures in these applications is usually complicated by the presence of numerous disturbances, such as changes in supply pressure, flow, and ambient temperature, that tend to upset prevailing conditions.

Bellofram Pressure Regulators provide accuracy, precision control, and maximum stability under the most adverse operating conditions.

Type 10 Pressure Regulator Applications

- Gas Mixing
- Valve Operators
- Gate Actuators
- Positioner Signal
- Calibration Stands
- Air Hoists
- Air Gauging
- Cylinder Loading
- Force Balance Hoists
- Disc and Shoe Air Brakes
- Clamp Units
- Web Tensioning
- Press Units
- Roll Loading



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