

IEV INSTRUMENT ENCLOSURE VALVE

A compact steam control device that provides precise, reliable, economical, temperature control in instrument and analyzer enclosures

The safe, low cost alternative to electric heating systems

Design Features

Thermal actuator controls flow of steam as needed

Eliminates danger of overheating

Provides effective freeze-protection

Can be safely used in all environments

No explosion proof housings or other precautions are necessary

Precalibrated actuators are interchangeable

For quick easy change of enclosure temperature

Direct acting (no pilot valve)

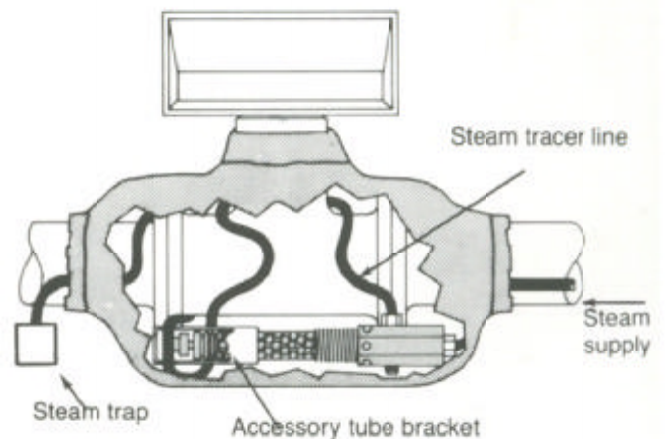
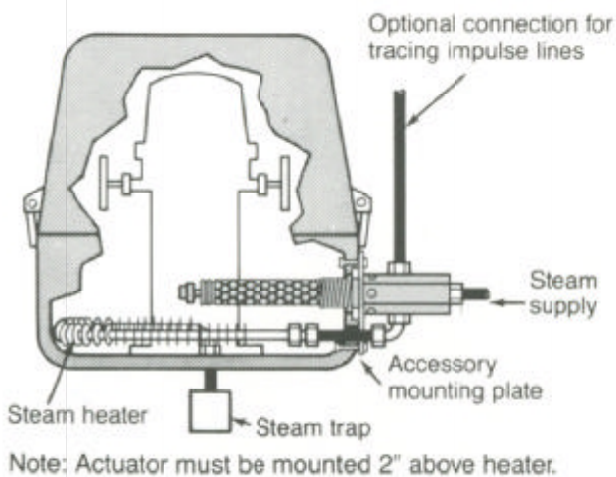
High repeatability (no control point drift)

Valve port opens gradually

Prevents system shock

Standard temperature control points from 40° to 190 °F

100% factory tested

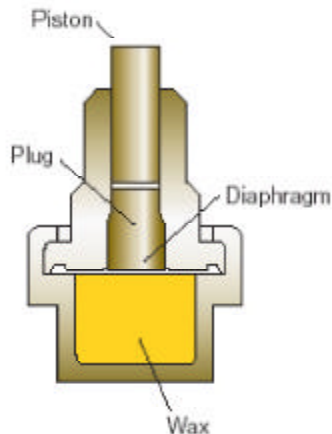


Self-Contained Thermal Actuator

The heart of the Ogontz IEV valve is the unique solid-liquid phase thermal actuator. This hydrocarbon wax-filled device actuates the valve in response to changes in enclosure temperatures. The transition from solid to liquid phase causes a large change in volume, exerting a tremendous force over a narrow temperature band.

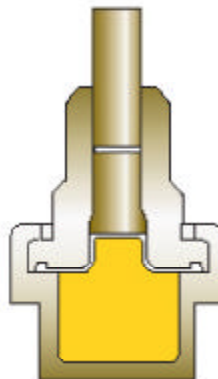
COLD POSITION

As the fluid temperature drops below the preset temperature, the wax contracts, allowing the force of the operating spring to open a direct-acting valve.



HOT POSITION

As the fluid temperature rises above the preset temperature, the wax starts to expand, exerting force on the operating spring and closing a direct-acting valve.



Specifications and Ordering Information

| Inlet Thread NPT | Outlet Thread NPT | Maximum Operating Pressure (psig) | Maximum Operating Temperature °F | Maximum C_v ± 10% | Maximum Capacity Lbs./Hr. Saturated Steam at 100 psig Inlet Pressure | Standard Control Points Available °F |
|---------------------|----------------------|--------------------------------------|-------------------------------------|------------------------|--|--|
| 1/2 | 1/4 | 200 | 450 | 0.2 | 42 | 45 50 75 100 190 |

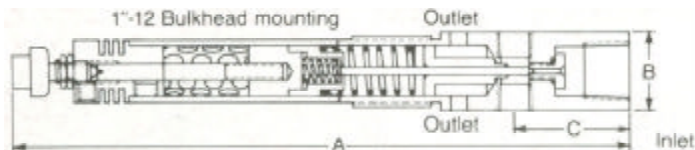
Ordering Information:

Insert desired maximum enclosure temperature (control point) into IEV valve model number: 1/2x1/4 IEV ___ ___ ___ ADS

Example:

For control point of 100°F, specify: 1/2 x 1/4 IEV100ADS (actual valve set point will be 10° higher than control point)

Be sure to furnish steam supply pressure, temperature, plus type, size and manufacturer of instrument enclosure.



| Inches | | | Weight Lbs. | Body Material |
|--------|-------|---------|----------------|------------------|
| A | B | C | | |
| 8-1/2 | 1-1/8 | 1-11/16 | 1-1/4 | 303 SS |



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