

AFV

Adjustable Flow Valves

AFV-1
Edition 07-08



Hauck, a product brand
of the Elster Group



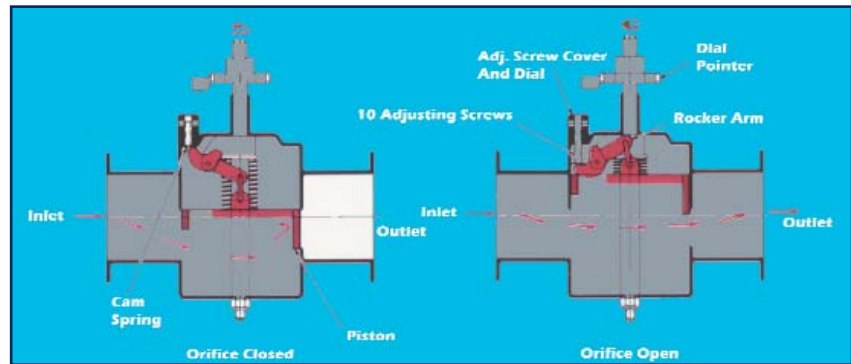
- Straight or angled flow
- Flow characterization
- Adjustable flow curves
- Installation in any position
- Available in sizes from 1 to 6 inches
- Low operating torque
- Suitable for air or gas
- Pressures to 15 psig (103 kPa) through 4 inch size,
3 psig (21 kPa) for 6 inch size
- Temperatures to 200°F (93°C)

The Hauck AFV Adjustable Flow Valves are designed to permit easy modification of flow rates at any of the 10 or more adjusting points provided in the valve. The gas or air flow curves can be characterized to suit specific operating requirements from the minimum to the maximum flow rate. These valves are suitable for use with air or any clean industrial fuel gas.

Operating conditions encountered in the automatic control of gas and air flows often require valves with an adjustable flow curve which can be altered at various points of opening to obtain the desired flow rate. Such flexibility is not possible with ordinary adjustable port valves that have a fixed height of port opening over the entire range of operation. Hauck AFV valves allow flow characteristics to be controlled with greater flexibility. These valves are designed for use as control valves and **can not** be used as shutoff valves.

The AFV can easily be linked to a Hauck Micro Oil Valve and Hauck Adjustable Port Valve for manual or automatic control of gas, oil and air flow to burners.

For the 1" through 4" valves, the valve body and piston are made of cast iron. For the 6" valve, the body is fabricated (welded) steel and the piston is fabricated aluminum. The valve spring and cam spring are made of steel.



Other internal operating parts are made of brass. All valves have four pads on each side which are drilled and tapped to facilitate mounting.

Operation.

The valve consists of a cylindrical piston with a rectangular port which both rotates and reciprocates within the rectangular opening of the valve body. When the valve lever is moved from low (1) to high (10) position, the rectangular opening in the body is uncovered for flow. The height of the rectangular port is adjustable. The position of the cam spring affects the position of the rocker arm, which in turn controls the height of the port. The cam spring can be adjusted at 10 or more independent points (the number of points is dependent on the valve size) by rotating the adjusting screws located under the valve dial plate.

If more or less flow is desired at any position, the adjusting screw under the pointer is turned in to increase or out to decrease the height of the port opening, and thus change the overall port area at that point. Great flexibility of flow characteristics is provided by the adjusting screws which can be set for either uniform or varying increments of change in capacity at the 10 valve dial positions.

Consult Hauck for control motor options for AFV valves.

For additional information on this product, visit our website at:

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