

APV

Adjustable Port Valves

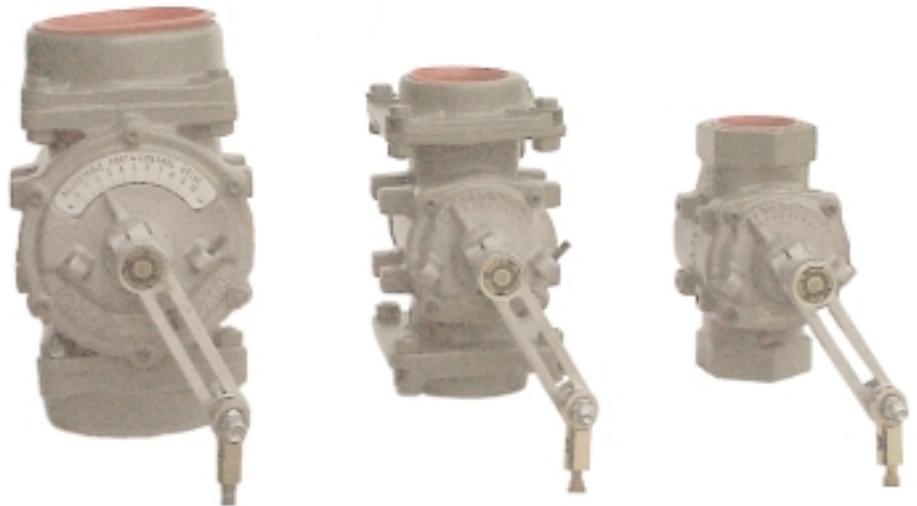


Features

- Single port adjustment knob for positive position lockout
- Mounting pads for control motor/other valves
- Adjustable limit stops
- Available in sizes from 1 to 10 inches
- Pressure to 15 psig (103kPa) through 4" size, 5 psig (35 kPa) for 6" size and larger
- Temperatures to 200°F (93°C)

Benefits

- Simple and efficient flow setup and adjustment
- Installation in any position
- Low operating torque



Hauck Adjustable Port Valves (APV) are a dependable and accurate means of controlling the flow of air or gas to burners on furnaces, ovens, kilns, dryers and for other industrial control applications. Hauck port valves feature an easy, single adjustment and are designed to hold the desired settings in either automatic or manual operation systems.

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Combustion Excellence Since 1888

APV

ADJUSTABLE PORT VALVES



ADVANTAGES OF THE APV

Installation in Any Position

Adjustable Limit Stops

Low Operating Torque

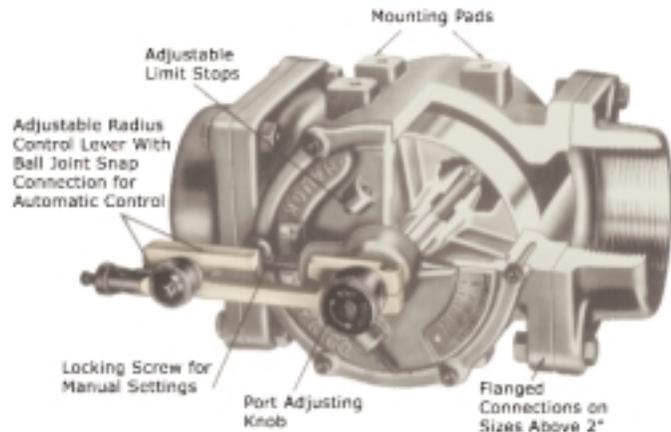
Valve flow rate is controlled by operating the lever to rotate the cylindrical piston for desired amount of port opening. The height of the rectangular port opening can be adjusted for the entire range of lever travel, by merely turning a single adjusting knob. This knob has *close* and *open* direction arrows, and a socket screw for positive position lockout.

Full valve control range is obtained by 90 degree lever rotation. The adjustable radius and positioning features of the lever permit easy linkage to a control motor or drive mechanism. A ball joint snap connection on the lever eliminates friction from misalignment and allows the valve to be quickly disconnected from a control system, for manual operation or readjustment. Adjustable limit stop screws for the valve pointer are vibration-proof.

A separate vibration proof friction type locking screw is provided to lock any manual setting of the valve pointer. The valve piston shaft has a ball thrust bearing and take-up screw which eliminates cylinder end play and related flow variations. These valves are designed for use as control valves and **cannot** be used as shutoff valves.

Hauck Adjustable Port Valves have mounting pads drilled and tapped on both sides. They can be supplied with connecting linkage and brackets for automatic control, and in multiple valve units. Units combining other Hauck valves are also available.

The entire valve internals with valve cover assembly are removable from the valve body by unscrewing the cover plate screws.



All valve bodies up to 4" size are cast iron. Larger sizes are of steel. Valve pistons are of machined aluminum alloy in all sizes. Valve covers are aluminum alloy in sizes 1" through 4", and steel in the 6, 8, and 10" sizes.

Valve sizes 1" through 2" have one piece bodies with screwed connections. Valve sizes 3" and 4" have flanged type screw connections. The 6, 8 and 10" valves will mate to ANSI 125 lb rated flanges.

Valve sizes 1" through 4" are designed for operating pressures up to 15 psig. The 6, 8, and 10" valves are rated for pressures up to 5 psig. APV valves may be used with temperatures up to 200°F (93°C).

Manual or automatic control is achieved by moving the adjustable radius control lever. The piston is thereby rotated to proportionally open the rectangular port in the valve body. The height of the port is adjusted by a single adjusting knob. When the height adjustment is made to satisfy maximum flow conditions, this establishes the port height for all rotational valve positions.