

# MCOV

## Micro-Cam Oil Valves

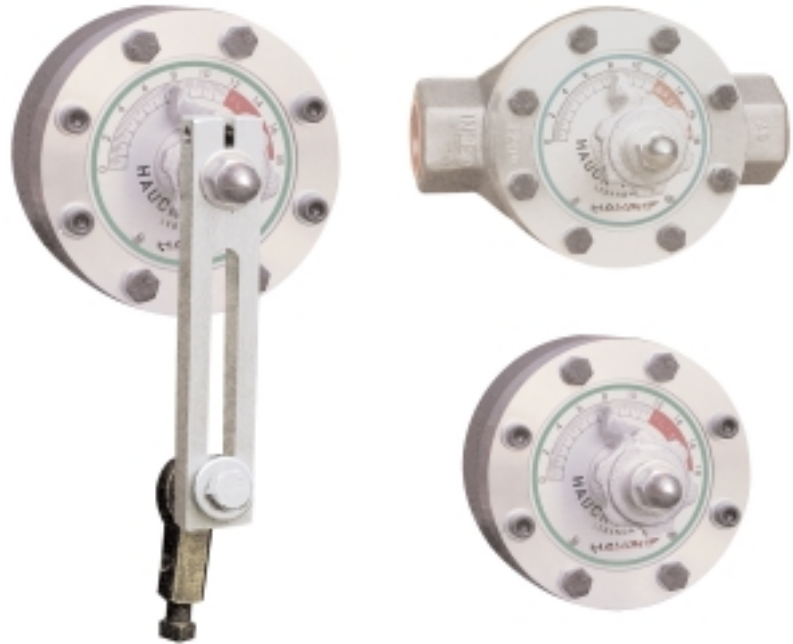


### *Features*

- Self-cleaning
- Cold rolled steel construction for dependable service
- Manual or automatic control options

### *Benefits*

- Fast, easy setting of fuel oil flows
- Clog-free operation
- Factory flow tested
- Reproducible flow rates



The Hauck Micro-Cam Valve provides accurate, reproducible flow control of fuel oil to any type of industrial process, thus making the operation of oil-fired heat processing equipment more dependable. Many thousands are in daily use on heat-treating, forging and annealing furnaces, roasting and melting furnaces, retorts, ovens, kilns, lehrs, melting tanks, dryers, air pre-heaters, reaction kettles, stills, superheaters, rotary dryers and boilers. UL approved versions are available in most sizes.

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**Combustion Excellence Since 1888**

# MCOV

MICRO-CAM OIL VALVES



## ADVANTAGES OF THE MCOV

Fast, Easy Setting of Oil Flow

Self-Cleaning for Clog-Free Operation

Factory Tested for Accurate, Reproducible Flow Rates

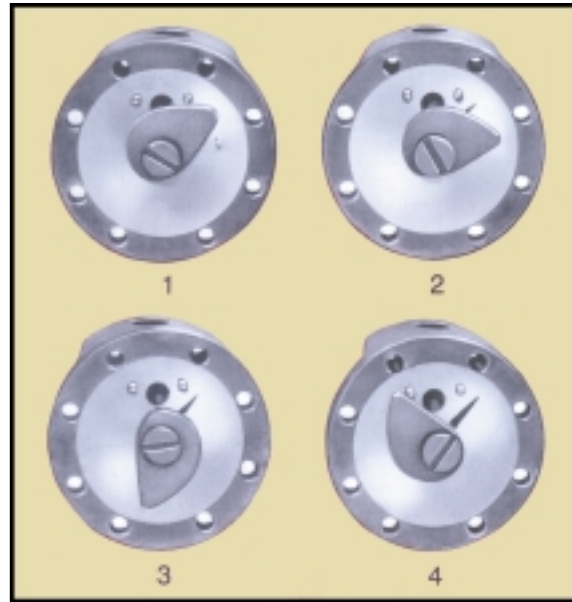
**Efficient Regulation of Oil.** Hauck's Micro-Cam oil valve improves combustion conditions and uniformity of heating. It also prevents smoke and work spoiled due to improper control of oil supply to the burners.

**Meters Oil Flow.** The B valves produce linear flow control over the range of the valve and there fore can be used as a practical metering device once the flow in gallons/hr has been established. Each calibration on the dial indicates the same increment of oil flow day after day under equal conditions. The F, G, and K valves are non-linear, therefore, the flow is not directly proportional to the valve position. Once flow is established, however, each increment on the dial will indicate the same oil flow every day under equal conditions.

**Self-Cleaning.** Open V-slot design minimizes the clogging that so frequently occurs in the constricted peripheral openings of needle valves. The cam's knife edge easily cuts away any grit, dirt or carbon that may pass into the valve. This helps to reduce heating time and production losses, and the inconvenience of shutdowns for removal of valves from the lines for cleaning.

**Use Any Grade Fuel Oil.** These valves will efficiently handle any grade of fuel oil, even the heaviest residual grades, provided that they are preheated to the proper viscosity and flow characteristics.

**Micro-Control.** A turn of the handle from closed to fully open gives any graduated capacity in between. The degree of opening is governed by a cam with a knife edge which rotates against a V-slot in a flat



**Cam movement over V-slot accurately determines oil flow from shutoff to full open flow.**

plane and works with only slight bearing pressure. As shown on the open view from left to right, note that the cam movement over the triangular slot in the flat face produces any required oil flow from minimum to maximum open area.

The cam is ground to produce straight line discharge characteristics so that the flow is directly proportional to the area of the slot opening and to the number on the calibrated dial. With the Micro-Cam valve, the rate of flow and its repeat settings can always be set instantly and accurately.

**Durable and Dependable.** The valve body and cam are made of cold rolled steel, hardened and ground to prevent scoring of working parts by foreign matter in the oil. Because the two flat surfaces operate against each other, a tight seal is always maintained without seizing or binding.

**Manual or Automatic.** For the manual operation, the B series valves are available with a handwheel. The F, G and K series valves, though not normally used for manual control, can be supplied with a handwheel if required. For automatic control applications, all Micro-Cam series valves are supplied with a threaded wheel which accepts the optional adjustable radius control lever and connector. The Hauck Micro-Cam Oil Valve is designed for flow control.