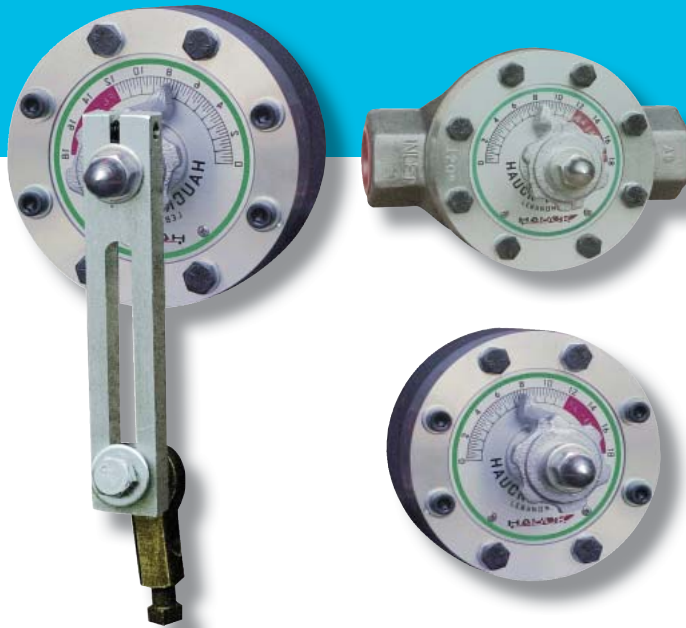


MCOV

Micro-Cam Oil Valves

MCOV-1
Edition 10-13



- All-purpose liquid fuel valve
- Ideal for modulating liquid fuel flow manually, with a linked actuator, or a direct coupled actuator
- Ideal for limiting liquid fuel flow in main or bypass fuel supplies
- Valve bodies feature solid steel construction, precision machined for accuracy and dependability
- Heat tempered components ensure a long service life
- Zero maintenance design prevents fouling
- UL Listed B and F series valves for a variety of applications
- Oil valves rated to 225 PSI, LP valves rated to 250 PSI

Hauck Micro-Cam oil (MCOV) valves provide 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. Tens of thousands are in daily use on a wide variety of industrial heating applications. The B and F valves are UL approved.

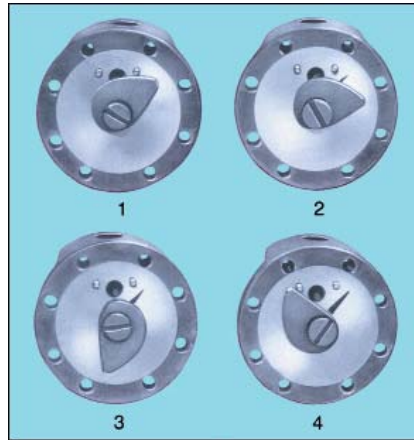
Efficient Regulation of Oil.

Hauck's MCOV valves improve combustion conditions and uniformity of heating. They also prevent smoke and reduce 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 therefore 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.

Compatible with 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. Versions of the valves are also available for use with LP (liquid propane).



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

Zero Maintenance. The valve's 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. Hardened surfaces prevent wear and erosion that occur during the extended use of other types of control valves. There are no seals or seats to wear.

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 plane and works with only slight bearing pressure. As shown above from 1 through 4, note that the cam movement over the triangular slot in the flat face produces any required oil flow from minimum to maximum.

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 MCOV, the rate of flow can always be set instantly, accurately and with repeatability.

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 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 MCOV series valves are supplied with a threaded wheel which accepts the optional adjustable radius control lever and connector, or can be direct coupled to almost any actuator for precise control of flow.

Hauck can provide direct coupled or linked valve assemblies using any of the MCOV valves and most industrial actuators. MCOV valves can also be included in pre-piped fuel manifolds designed to meet your process specifications. Versatile configurations allow easy integration into even the most customized applications.

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

www.hauckburner.com

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