

OIL FLOW MONITOR

Oil Circulation Lubrication Meter for Paper Machines

FO-OILFLOW'S (circulation lubrication meter) unique self-cleaning technology, ensures the flow tube indicator remains clean. The measuring technique is spring loaded and based on pressure differential. Due to the spring loading, the flow is constant and accurate. Flow levels are adjusted directly according to the flow tube scale. This removes the need for a conversion scale. In normal operation, floats are always on the same level regardless of the flow rate. This makes it easier to monitor flow meters visually, i.e. just a look is enough to check the operation. Optional lower limit alarm, ensures that circulation lubrication reaches all of the oiling points.

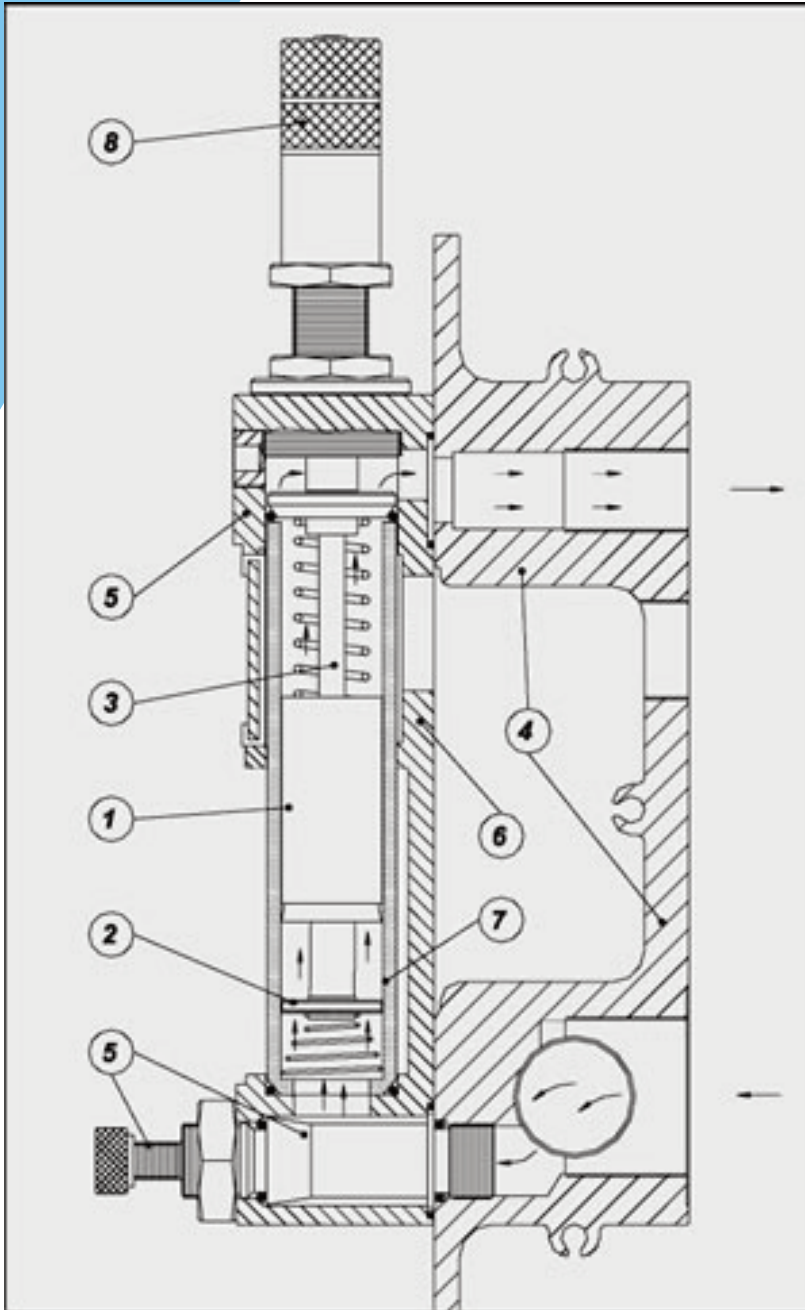


FO-OILFLOW'S FEATURES INCLUDE:

- Direct flow capacity display pints/min. with no graduation
- 3 different flow ranges in the same module (0.2-34 pints/min.)
- Built in modular form (1-12 units per base plate)
- No requirement for a flow curve
- Floats on the same level regardless of different flow rates
- Spring loaded to ensure stable operation
- Optional low flow alarms

OPERATING PRINCIPLE OF THE FLOW METER

A spring-loaded float (1) and the flange (2) of a cone act as the indicator of the flow rate. Together, with a built-in fixed cone (3), they form an accurate and stable volume flow into the flow meter. The changes in the cross-sectional areas between the float and cone form a pressure differential representing the flow rate.



Circulation lubrication oil is fed into the base plate (4) to the channel (from behind or from the side). From there, the circulation lubrication oil flows through the control valve (5) into the measuring unit in the flow tube (7) of the module (6). In the measuring unit, the float (1) settles itself into the position controlled by the pressure differential. The circulation lubrication oil exits from the measuring unit through the bottom plate into the piping and to a lubrication point. The flow value can be read in the flow tube or on the scale in the module. The flow rate will be adjusted only with the control valve (5), after the flange (2) of the cone has been adjusted to the target flow with the regulating wheel (8).

CLEANING OF THE FLOW TUBE

Thanks to the unique cleaning action, the flow tubes of the flow meter always stay clean. When the circulation lubrication stops and re-starts; the circulation lubrication meter removes the impurities and cleans the inner surface of the flow tube with the Teflon ring of the indicator float.

Manufacturer:

Flow Control
Muurame Finland

Flow Control Oy
www.flow-control-th.fi
Muurame, Finland

CONMARK
Conmark Systems, Inc.
www.conmark.com
770-300-0224
info@conmark.com