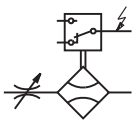
WOERNER
The Experts in Lubrication

Flowmeter

KUI-B

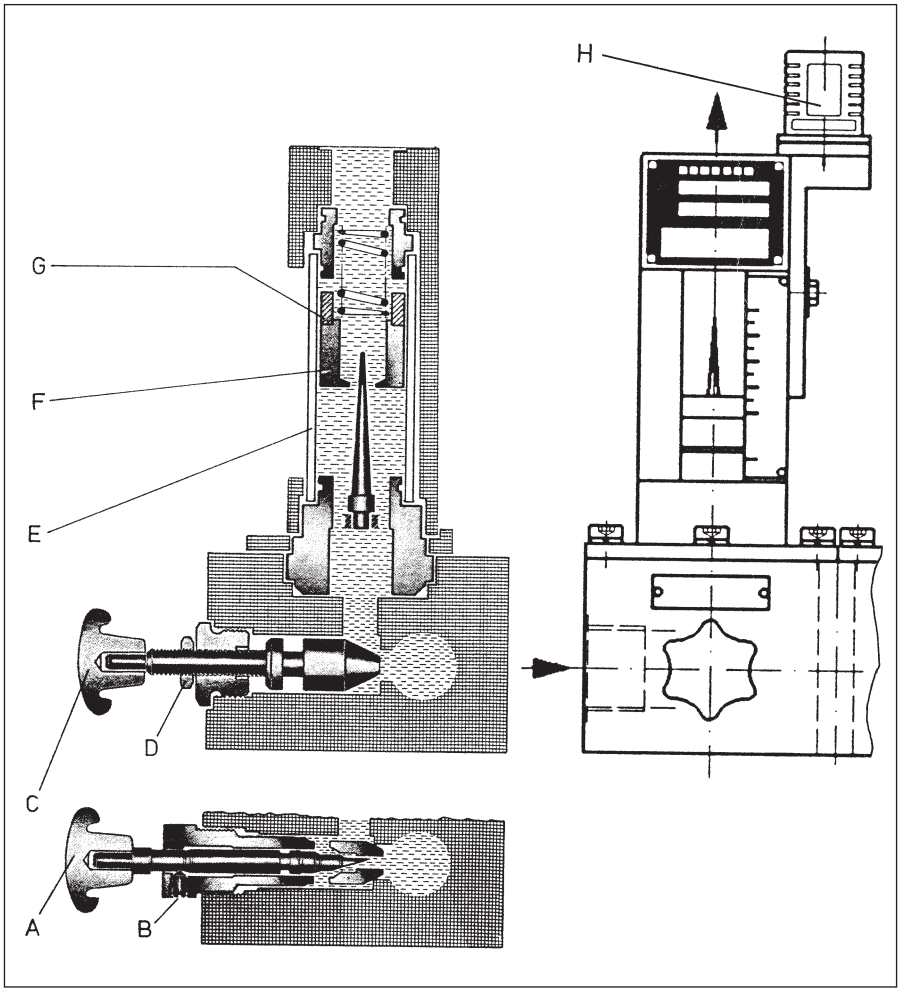


In line flowmeter with throttle and shut-off valve in block construction

Application:

For oil circulation systems

- **Serial mounting cramped**
- **optical and electrical monitoring of flow**
- **infinitely variable flow**
- **Electrical monitors are available in different switching bands**
- **Electrical monitors are available with LED**



Technical data:

Operating pressure:	max. 16 bar
Temperature range:	-10 ... +90 °C
Mounting position:	vertical ±5 °
Materials:	Al and CuZn
Viewing tube:	Glass
Gasket material:	FPM (Viton)

Instruction to functional drawing:

A = Fine throttle (size 01 ... 10)
B = Fixing screw
C = Throttle (size 25 ... 200)
D = Lock-nut
E = Cylindrical glass tube
F = Float
G = Magnet
H = Electrical elements

Functional description:

In a cylindrical glass tube "E" a float "F" moves. At a given flow rate the float "F" will find a level in the glass tube and an optical reading can be obtained. The position of the float can also be monitored by different electrical elements "H".
In the block a throttle valve "A" resp. "C" is related to each flowmeter for adjusting or

- Subject to modifications -

EUGEN WOERNER GmbH & Co. KG
Postfach 1661 DE-97866 Wertheim
Hafenstrasse 2 DE-97877 Wertheim
Tel. +49 (0) 9342 803-0 info@woerner.de
Fax.+49 (0) 9342 803-202 www.woerner.de

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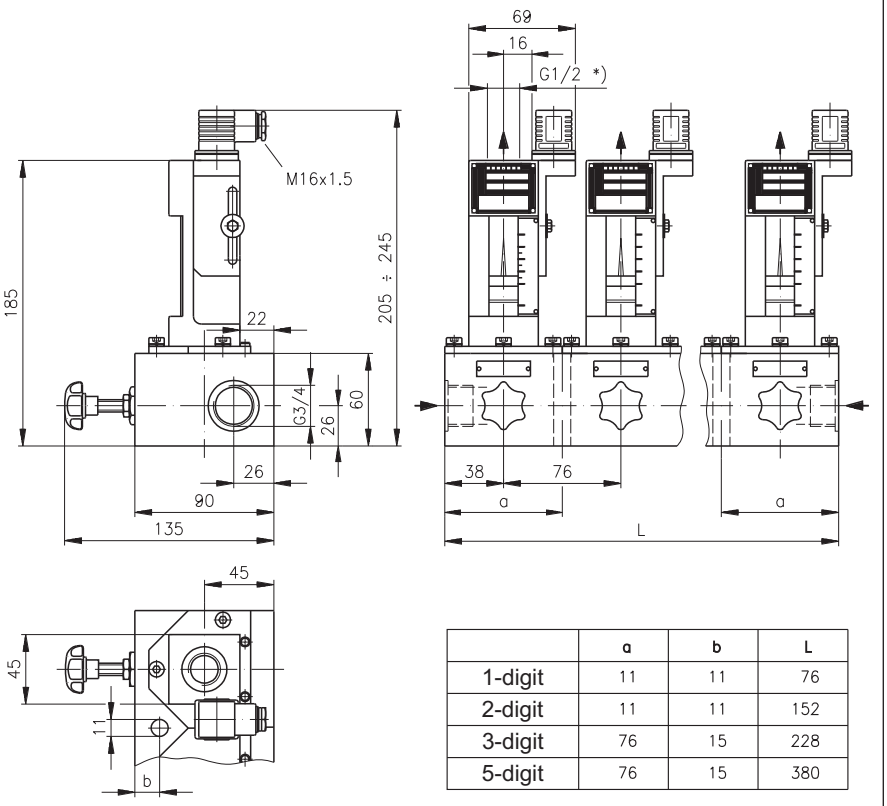
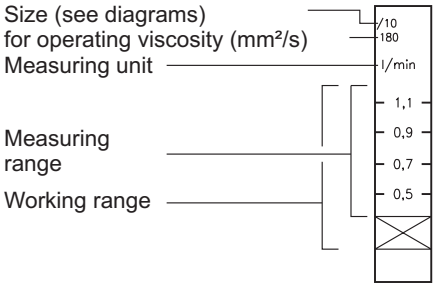


	a	b	L
1-digit	11	11	76
2-digit	11	11	152
3-digit	76	15	228
5-digit	76	15	380

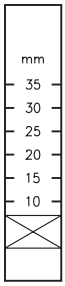
*) Note: Insertion length 14 mm at max.!

Display scale (A) (B) (C)



Within the working range the float with its ring marking can move.
The volume flow meter should be chosen so that during normal operation the float with its marking ring will remain within the measuring range (accuracy of indication).

Display scale (M)



Special scales
available upon request
(e.g. measuring unit pt/min)

Ordering-example:

Throttle block 5-digit
Display scales for an operating viscosity of 130 mm²/s

Digit 1 + 2	Size (10)
Digit 3 + 4	Size (25)
Digit 5	Size (100)

Electric monitoring:
Digit 1 with LED-B ultralong
Digit 2 without monitoring
Digit 3 with LED-B ultralong
Digit 4 with LED-B ultralong
Digit 5 with LED-B ultralong

Order-designation:
KUI-B/5/A/10/UB/10/0/25/UB/25/UB/100/UB

1) = outer left digit
2) = second digit from the left etc.
S) = Special version, not a stock item

*) Size is roughly corresponding to the tenfold volume flow at a float height of approx. 20 mm and an operating viscosity of 130 mm²/s

Spare-part list see leaflet-no. 9561

Order-designation: Flowmeter KUI–B (1) (2) (3)

Throttle block	Display scale	Size *)	electrical monitoring		
1-digit (1)	for operating viscosity 130 mm²/s (A)	Display range see diagrams leaflet-no. 0303: (01) (02) (03) (05) (10) (25) (40) (70) (100) (200)	without LED indication	Switching band: short (K) S), medium (M), long (L), ultralong (U) S)	
2-digit (2)	for operating viscosity 46 mm²/s (B)		with LED-A indication	Switching band: short (KA) S), medium (MA), long (LA), ultralong (UA) S)	
3-digit (3)	for operating viscosity 180 mm²/s (C)		with LED-B indication	Switching band: short (KB) S), medium (MB), long (LB), ultralong (UB) S)	
5-digit (5)	Scale with spacing in mm (M)				
without throttle block one volume flow meter only (spare part) (0)	without display scale (for special scales) (0)	Digit not including volume flow meter and throttle (L)	without	(0)	
more digits by request					

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Fax.+49 (0) 9342 803-202 www.woerner.de

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- Subject to modifications -

Information on EU Directive 2002/95/EC (RoHS)

With Directive 2002/95/EC of January 27, 2003, for the limitation of the use of certain hazardous substances in electrical and electronic devices (RoHS) material bans come into effect from July 2006 for electrical and electronic devices newly placed on the market for lead, cadmium, hexavalent chromium, mercury and brominated flame retardants.

In its controls and switching devices, WOERNER only uses materials which fulfil the criteria of EU Directive 2002/95/EC.

To the extent that hexavalent chromium has been used as corrosion protection in the parts which we produce ourselves, it has already been replaced by other environmentally tolerable protective measures.

The mechanical devices supplied by WOERNER are not affected by EU Directive 2002/95/EC as they are appliances added or installed on "large-scale stationary industrial tools" (cf. EU Directive 2002/96/EC, Annex IA).

But as WOERNER is conscious of its responsibility towards the environment, we shall also use materials fulfilling the requirements of the Directive for devices not covered by EU Directive 2002/95/EC as soon as they are generally available and their use is technically possible.

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