



Variable Area Flowmeter

for Monitoring of Gas Burners



measuring
•
monitoring
•
analysing

UTS



- Measuring range:
Water: 1 - 10 ... 40 - 40 l/h
Air: 0.01 - 0.1 ... 0.3 - 3.0 Nm³/h
- Accuracy class: 4 according to VDI/VDE
- p_{\max} : 3 bar; t_{\max} : 65 °C
- Connection:
with adapter: G $\frac{1}{4}$
without adapter: M18 x 1,5 axial special connection
- Material: nickel plated brass



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Description

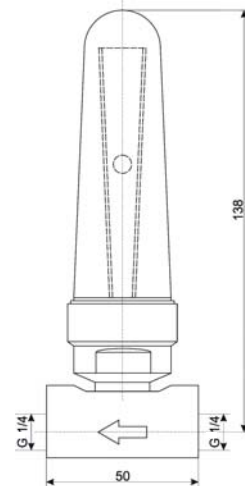
The Kobold flowmeter model UTS works on the basis of the suspended float principle. It comes with a M18x1.5 connection. The inflow of the medium is via 4 mm hole within this connection, whereas the outflow happens via six holes which are concentrically positioned around the inlet hole. This special connection is specifically made for UTS and provided with a special seal.

This flowmeter can be optionally supplied with a special adapter G 1/4 for horizontal installation. The use of this adapter is always recommended because of its special design. Especially in tight places, where conventional devices does not fit best because of their size, the UTS is an automatic choice. The device is suitable for monitoring gas burners (e. g. oxygen, hydrogen, methane, inert gases) due to its low price and possibility of an easy measuring tube exchange. The armature is made of nickel plated brass with impact resistant Polystyrene protection.

Technical Details

Installation position: vertical, flow from bottom
 Accuracy class: 4 according to VDI/VDE 3513
 Max. pressure: 3 bar
 Process temperature: 0...+65 °C
 Ambient temperature: 0...+100°C
 Connections: without adapter: M18 x 1,5 axial special connection
 with adapter: G 1/4 (for horizontal pipes)
 Protection: IP 65
Material
 Fitting: nickel plated brass
 Measuring tube: borosilicate glass
 Bulb: Polystyrene
 Float: stainless steel 1.4401
 O-ring: NBR

Dimensions



Material combination

Housing	Connection	Valve*	Float	Gasket	Tube
Nickel plated brass	Nickel plated brass	1.4301	1.4401	NBR	Borosilicate glass

Order details (Example: UTS-1 10H 10L 0 I 0)

Model	Measuring ranges Water [l/h]	Measuring ranges Air [Nm³/h]	Needle valve	Connection	Others
UTS-1	10H = 1 ...10	10L = 0.01 ...0,1	0 = without 1* = with valve	G = G 1/4 (with adapter) I = M18 x 1.5 (without adapter)	0 = without Y = please specify in clear text
	12H = 1.6 ...16	12L = 0.016 ...0.16			
	14H = 2.5 ...25	14L = 0.025 ...0.25			
	16H = 4 ...40	16L = 0.04 ...0.40			
	-	18L = 0.063 ...0.63			
	-	20L = 0.1 ...1.0			
	-	22L = 0.16 ...1.6			
	-	24L = 0.2 ...2.0			
	-	26L = 0.3 ...3.0			
XXX = Special**	XXX = Special**				

* in preparation
 ** please specify in clear text