

Variable Area Flowmeter

for monitoring of gas burners



measuring • monitoring • analysing

UTS



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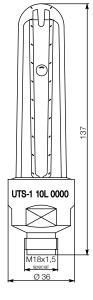


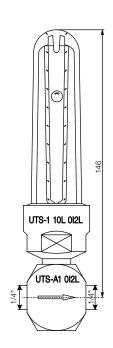
Description

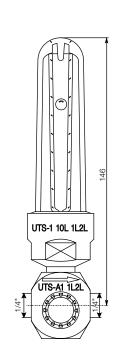
The KOBOLD flowmeter model UTS works on the basis of the suspended float principle. It comes with a M18x1.5 connection. The inflow of the medium is via 4 mm hole within this connection, whereas the outflow happens via six holes which are concentrically positioned around the inlet hole. This special connection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

This flowmeter can be optionally supplied with a special adapter G ¼ or ¼" NPT for horizontal installation. The use of this adapter is always recommended because of its special design. Especially in tight places, where conventional devices do 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 e.g. MIG welding) due to its low price and possibility of an easy measuring tube exchange. The armature is made of nickel plated brass or stainless steel with impact resistant polystyrene protection bulb.

Dimensions [mm]







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Technical Details

Installation position: Accuracy class: Max. pressure: Process temperature: Ambient temperature: Connections:

Protection:

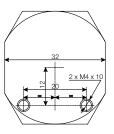
Material

Fitting:

Measuring tube: Bulb: Float: O-ring: Material combination: vertical, flow from bottom 4 according to VDI/VDE 3513 3 bar 0...+65 °C 0...+50 °C without adapter: M18x1.5 axial special connection with adapter: G ¼ or ¼" NPT (for horizontal pipes) IP65

nickel plated brass, stainless steel 1.4301, 1.4404 borosilicate glass polystyrene stainless steel 1.4301 or 1.4404 NBR, FPM see separate table

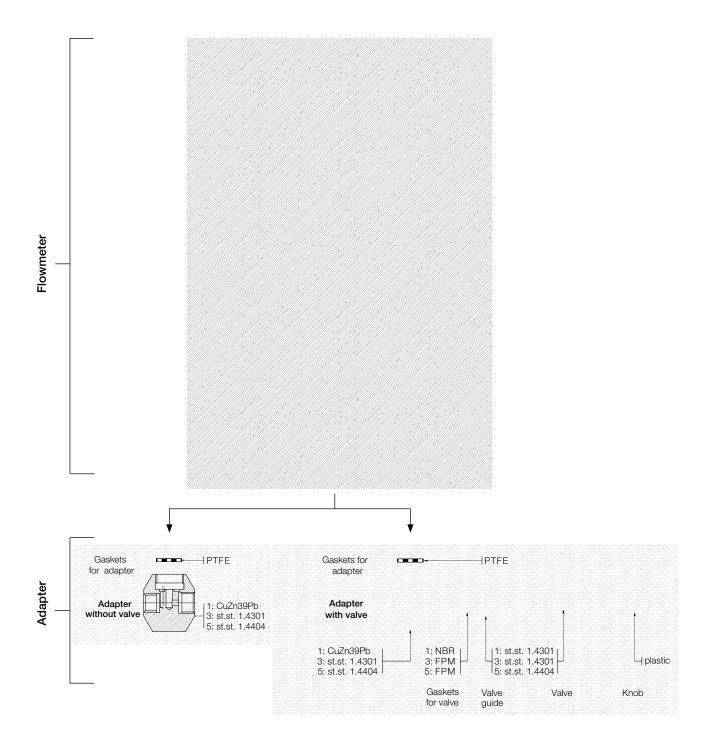
Mounting on back side





Material Combination

Model	Housing	Valve	Float	Gasket	Measuring tube	Bulb
UTS-1	nickel plated brass	1.4301	1.4301	NBR	borosilicate glass	polystyrene
UTS-3	stainless steel 1.4301			FPM		
UTS-5	stainless steel 1.4404	1.4404	1.4404	FPINI		





Model	Housing	Measuring ranges ²⁾ air [Nm³/h]	Connection ¹⁾ /flow direction	Option
			without adapter	
		10L = 0.01 0.1	0000 = M18x1.5, from bottom	
		12L = 0.0160.16	with adapter, without valve	
		14L = 0.0250.25	012L = G 1/4 adapter, from left	
	1 = brass 3 = stainless steel 1.4301	16L = 0.040.40	012R = G $\frac{1}{4}$ adapter, from right	0 = without
UTS		18L = 0.0630.63	0N2L = ¼" NPT adapter, from left	Y = as
010	5 = stainless steel 1.4404	20L = 0.11.0	0N2R = 1/4" NPT adapter, from right	specification
	J – Stall 1655 Steel 1.4404	22L = 0.161.6	with adapter, with valve	
		24L = 0.22.0	112L = G $\frac{1}{4}$ adapter, from left	
		26L = 0.33.0	112R = G ¼ adapter, from right	
		YYL ³⁾ = others	1N2L = ¼" NPT adapter, from left	
			1N2R = $\frac{1}{4}$ " NPT adapter, from right	

Order Details Flowmeter (Example: UTS-1 10L 0I2L 0)

¹⁾ Adapter material same as housing material.

²⁾ At 1.013 bar abs and 20 °C

³⁾ Customer specification on request, please specify in clear text.

Order Details Adapter (Example: UTS-A1 012R)

Model/Housing	Connection ¹⁾ /flow direction
	without valve
	0I2L = G 1/4 adapter, from left
	0I2R = G ¼ adapter, from right
UTS-A1 / brass	0N2L = 1/4" NPT adapter, from left
UTS-A1 / blass UTS-A3 / stainless steel 1,4301	0N2R = ¼" NPT adapter, from right
UTS-A5 / stainless steel 1.4404	with valve
UIS-AS / Stamless Steel 1.4404	1I2L = G ¹ / ₄ adapter, from left
	1I2R = G ¼ adapter, from right
	1N2L = 1/4" NPT adapter, from left
	1N2R = ¼" NPT adapter, from right

¹⁾ Adapter material same as housing material.