



## Variable Area Flowmeter glass cone



measuring  
•  
monitoring  
•  
analysing

### UVR/UTR



- Measuring range:  
water: 10 - 100 l/h ... 200 - 2000 l/h  
air: 0.1 - 1 ... 5 - 50 Nm<sup>3</sup>/h
- Accuracy class: 4 acc. to VDI/VDE
- $p_{\max}$ : 10 bar;  
 $t_{\max}$ : 100 °C (65 °C for PVC)
- Connection: G 3/8, G 1/2, 3/8" NPT, 1/2" NPT  
or others with adapters
- Material: stainless steel or POM-C

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**Description**

The flowmeters and switches model UVR and UTR for liquids and air operate on the suspended float principle: that is, the installation position is vertical and the direction of flow is from bottom to top.

The instruments have been designed as simple and thus economical measuring systems. The float for UVR and UTR is a bomb form float, whereby the indication point is the top of the float. The appliance is available with or without needle valve as well.

**Applications**

- Cooling water system
- Gas monitoring for burners
- Inert gas controlling

**Technical Details**

Installation position: vertical, flow from bottom  
 Accuracy class: 4 acc. to VDI/VDE 3513  
 Max. pressure: 10 bar  
 Process temperature: 0 ... +100 °C  
 0 ... +70 °C with contact  
 0 ... +65 °C (PVC float)  
 Ambient temperature: 0 ... +65 °C  
 Protection: IP 65  
 Connections: G 3/8, G 1/2, 3/8" NPT, 1/2" NPT  
 Option: adapters (G 1/4, G 3/8, G 1/2)  
 pipe connections for plastic pipes  
 hose connections  
 push-on connections

**Materials**

Fitting: stainless steel (1.4401, 1.4301) or POM-C  
 Measuring tube: borosilicate glass  
 Float stop: PTFE or st. steel 1.4301, 1.4401  
 Float: stainless steel (1.4401, 1.4301), PVC, aluminium, PP  
 Gasket: FPM, EPDM, NBR  
 Valve: stainless steel (1.4401, 1.4301) (not usable as shut-off valve)

**Limit Switches (option)**

The flowmeters can be fitted with limit switches as an option. These limit switches are cylinder type proximity switches. The electrical connection is via 2m cable.

The following type is available: Monostable (preferably used as Min./Max. contact).

**Material Combinations\***

Code	Housing	Connection	Valve	Float	Gaskets	Tube
0	POM-C	POM-C	POM-C	PVC for gases PTFE for liquids	EPDM	borosilicate glass
3	1.4301	1.4301	1.4301	1.4301	FPM	
5	1.4404	1.4404	1.4404	1.4404	FPM	

\* Special material combination on request



**Order Details Liquids** (Example: UVR-0 20H 0 I3 00)

Model	Measuring ranges Water [l/h]	Needle valve	Connection	Switch <sup>2)</sup>	
UVR-0 UVR-3 UVR-5	20H = 10 ... 100	0 = without 1 = with valve	I3 = G $\frac{3}{8}$ N3 = $\frac{3}{8}$ " NPT YY = other	00 = none 1B = 1x N/O, PNP 2B = 2x N/O, PNP	
	22H = 16 ... 160				
	24H = 25 ... 250				
	26H = 40 ... 400				
	28H <sup>1)</sup> = 63 ... 630				
UTR-0 UTR-3 UTR-5	26H = 40 ... 400		I4 = G $\frac{1}{2}$ N4 = $\frac{1}{2}$ " NPT YY = other		00 = none 1C = 1x N/O, PNP 2C = 2x N/O, PNP
	28H = 63 ... 630				
	30H = 100 ... 1000				
	32H = 160 ... 1600				
	33H <sup>1)</sup> = 200 ... 2000				

<sup>1)</sup> Only with stainless steel float (UTR/UVR -3 and -5)

<sup>2)</sup> Switch is available only with stainless steel float (UTR/UVR -3 and -5)

**Order Details Gases** (Example: UVR-0 20L 0 I3 00)

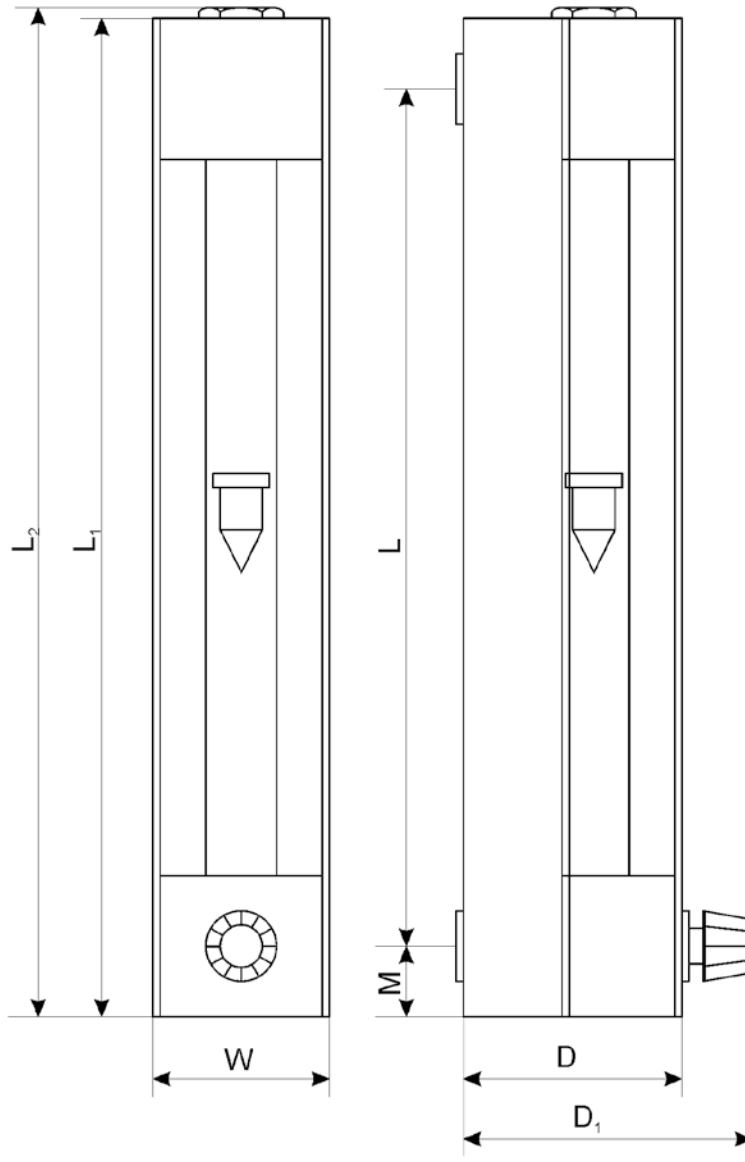
Model	Measuring ranges Air [Nm <sup>3</sup> /h] <sup>3)</sup>	Needle valve	Connection	Switch <sup>2)</sup>	
UVR-0 UVR-3 UVR-5	20L = 0.1 ... 1.0	0 = without 1 = with valve	I3 = G $\frac{3}{8}$ N3 = $\frac{3}{8}$ " NPT YY = other	00 = none 1B = 1x N/O, PNP 2B = 2x N/O, PNP	
	22L = 0.16 ... 1.6				
	24L = 0.25 ... 2.5				
	26L = 0.4 ... 4				
	28L = 0.63 ... 6.3				
	30L = 1 ... 10				
	32L = 1.6 ... 16				
33L <sup>1)</sup> = 2 ... 20					
UTR-0 UTR-3 UTR-5	26L = 0.4 ... 4		I4 = G $\frac{1}{2}$ N4 = $\frac{1}{2}$ " NPT YY = other		00 = none 1C = 1x N/O, PNP 2C = 2x N/O, PNP
	28L = 0.63 ... 6.3				
	30L = 1 ... 10				
	32L = 1.6 ... 16				
	34L = 2.5 ... 25				
	36L = 4 ... 40				
37L <sup>1)</sup> = 5 ... 50					

<sup>1)</sup> Only with stainless steel float (UTR/UVR -3 and -5)

<sup>2)</sup> Switch is available only with stainless steel float (UTR/UVR -3 and -5)

<sup>3)</sup> @ 1.013 bar abs and 20 °C

Dimensions [mm]



Model	L	L <sub>1</sub>	L <sub>2</sub>	M	W	D	D <sub>1</sub>
UVR-xM	240	283	287.5	21	50	62	100-108
UTR-xM	340	375	375.0	17	62	62	105-114