Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Variable Area Flow Meter

glass cone

measuring • monitoring • analysing

UVR / UTR

- Measuring range:
  water: 10 - 100 l/h ... 200 - 2000 l/h
  air: 0.1 - 1 ... 5 - 50 Nm³/h
- Accuracy class: 4 acc. to VDI/VDE
- p_{max}: 10 bar;
  t_{max}: 100 °C (65 °C for PVC)
- Connection: G ⅜, G ½, ⅜" NPT, ½" NPT or others with adapters
- Material: stainless steel or POM-C

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Description

The flow meters 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 ⅜, G ½, ⅜" NPT, ½" NPT Option: adapters (G ¼ , G ⅜, G ½) pipe connections for plastic pipes hose connections push-on connections

Materials

Fitting:	stainless steel (1.4404, 1.4301) or POM-C
Measuring tube:	borosilicate glass
Float stop:	PTFE or st. steel 1.4301, 1.4404
Float:	stainless steel (1.4404,1.4301), PVC, aluminium, PP
Gasket:	FPM, EPDM, NBR
Valve:	stainless steel (1.4404, 1.4301) (not usable as shut-off valve)

Limit Switches (option)

The flow meters 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

No responsibility taken for errors;
subject to change without prior notice.

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

Model	Measuring ranges Water [l/h]	Needle valve	Connection	Switch [2]
UVR-0 UVR-3 UVR-5	**20H**[1] = 10 … 100	**0** = without **1** = with valve	**I3** = G⅜ **N3** = ⅜" NPT **YY** = other	**00** = none **1B** = 1x N/O, PNP **2B** = 2x N/O, PNP
	22H[1] = 16 … 160			
	24H[1] = 25 … 250			
	26H[1] = 40 … 400			
	28H[1] = 63 … 630			
UTR-0 UTR-3 UTR-5	**26H** = 40 … 400		**I4** = G½ **N4** = ½" NPT **YY** = other	
	28H = 63 … 630			
	30H = 100 … 1000			
	32H = 160 … 1600			**00** = none **1C** = 1x N/O, PNP **2C** = 2x N/O, PNP
	33H[1] = 200 … 2000			

[1] Only with stainless steel float (UTR/UVR -3 and-5)
[2] 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 [Nm³/h] [3]	Needle valve	Connection	Switch [2]
UVR-0 UVR-3 UVR-5	**20L**[1] = 0.1 … 1.0	**0** = without **1** = with valve	**I3** = G⅜ **N3** = ⅜" 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] = 1.6 … 16			
	33L[1] = 2 … 20			
UTR-0 UTR-3 UTR-5	**26L** = 0.4 … 4		**I4** = G½ **N4** = ½" NPT **YY** = other	
	28L = 0.63 … 6.3			
	30L[1] = 1 … 10			
	32L[1] = 1.6 … 16			**00** = none **1C** = 1x N/O, PNP **2C** = 2x N/O, PNP
	34L[1] = 2.5 … 25			
	36L[1] = 4 … 40			
	37L[1] = 5 … 50			

[1] Only with stainless steel float (UTR/UVR -3 and-5)
[2] Switch is available only with stainless steel float (UTR/UVR -3 and-5)
[3] @ 1.013 bar abs and 20 °C

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Dimensions [mm]

Model	L	L_1	L_2	M	W	D	D_1
UVR-xM	240	283	287.5	21	50	62	100 - 108
UTR-xM	340	375	375.0	17	62	62	105 - 114

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