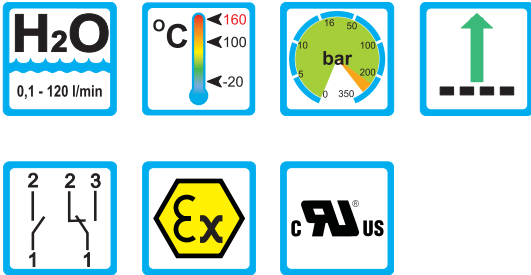


Flow Monitor

RVM/UM



Range of Application

Operation

- Float measuring principle

Application

- Cooling systems and cooling circuits
- Mechanical engineering
- Research and development

Features

- High reliability
- High switch accuracy
- High flowrates at low switchpoint settings
- EX-version to ATEX available
- High pressure resistance
- Threaded connection, Special threads on request

Installation Information

- The operating instructions for RVM/UM must be observed!
- Download: www.meister-flow.com

Operating Data

Operating pressure max.	250 bar (Brass) 300 bar (Stainless Steel)
Pressure drop	See diagram on reverse side
Maximum temperature	120 °C (optional 160 °C)
Accuracy	Switch point > 3 l/min: ± 5 % of switch value Switch point ≤ 3 l/min: ± 0,1 l/min

Measuring Ranges

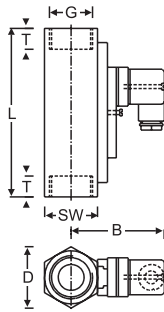
Type	Switch point for H ₂ O at 20 °C ⁽¹⁾		
	[l/min]	[gph]	[gpm]
RVM/UM			
Lowest Switch point:	0,1	1,6	
Highest Switch point:	30	480	

⁽¹⁾ The specified data are switch-off points other switch ranges on request.



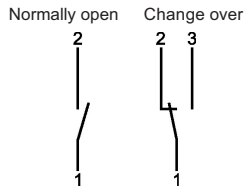
Technical Data

Mechanical drawing



RVM/UM

Connection diagram



Switch points and pressure drop

Type	RVM/UM
Lowest switch point (at decreasing flow)*:	0,1 l/min
Highest switch point (at decreasing flow)*:	30 l/min

* The switch point is factory adjusted.

Please specify switch point when ordering!

The recommended maximum flow is 120 l/min

Summary of types

Type:	Einbaumaße [mm]							Gewicht ca. [g]
	SW	D	B	G	DN	T	L	
RVM/UM	41	47	72	1"	25	20	130	1000

Electrical Data

Change over	250V • 1,5A • 50VA ⁽²⁾
Normally open	250V • 3A • 100VA

ATEX II 2 G Ex mb II T6 & ATEX II 2 D Ex tD A21 IP67 T80 °C
ATEX II 2 G Ex mb II T5 & ATEX II 2 D Ex tD A21 IP67 T100 °C

Change over	250V • 1A • 30VA
Normally open	250V • 2A • 60VA

Change over M 12x1 (-20 °C - 85 °C)	250V • 1,5A • 50VA ⁽²⁾
Normally open M 12x1 (-20 °C - 85 °C)	250V • 3A • 100VA

Change over SPS	250V • 1A • 60VA
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Ingress Protection:

IP65: plug connection DIN 43650 Form A

IP67: 1 m sealed in cable, (with EEx-version 2 m)
or plug connection M 12x1

Output Signal

The contact opens / changes when the flow decreases below the set point.

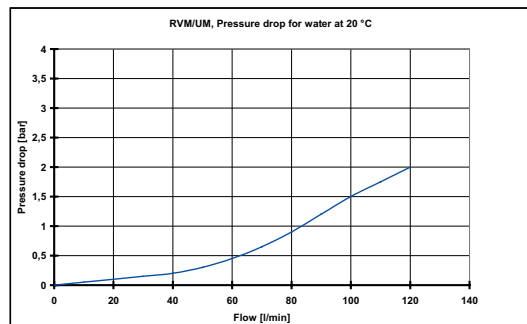
Power supply

Not required (potentialfree reed contacts)

Plug types

Other plug types or cable lengths on request

⁽²⁾ Minimum load 3 VA



Material

Brass version

Wetted parts:

Spring:	1.4571
Magnets:	Hard ferrite
Housing:	Brass nickel-plated
All other wetted parts	Brass

Stainless steel version

Wetted parts:

Spring:	1.4571
Magnets:	Hard ferrite
Housing:	1.4571
All other wetted parts	1.4571

RVM/UM 2 0006 07-09 E M

