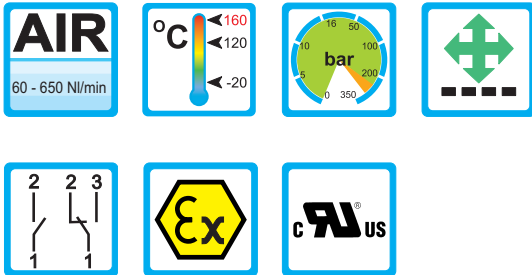


Flow Monitor

RVM/U-L1



Range of Applications

Operation

- Float measuring principle

Application

- Mechanical engineering
- Medicine technology
- Pharma industry
- Chemical industry
- Research and development
- Cooling systems and cooling circuits

Features

- Universal orientation
- High reliability
- High switch accuracy
- Infinitely variable switchpoint adjustment through user
- EX-version to ATEX available
- High pressure resistance
- Threaded connection, special threads on request

Installation hints

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

Operating Data

Operating pressure max.	250 bar (Brass) 300 bar (Stainless Steel)
Pressure drop	0,02 - 0,4 bar
Maximum temperature	120 °C (optional 160 °C)
Accuracy	±10 % of full scale

Measuring Ranges

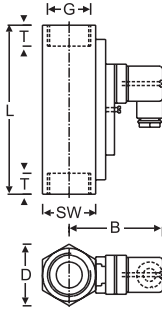
Type	Switch range for Air at 1 bar abs. and 20 °C ⁽¹⁾		
	[NI/min]	[SCFH]	[SCFM]
RVM/U-L10180	60 - 180	125,0 - 380,0	
RVM/U-L10300	100 - 300	210,0 - 635,0	
RVM/U-L10650	200 - 650		7,0 - 23,0

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

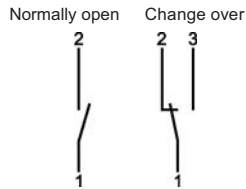


Technical Data

Mechanical drawing



Connection diagram



Summary of types

Type:	Overall dimensions [mm]							Weight (approx.) [g]
	SW	D	B	G	DN	T	L	
RVM/U-L10180								
RVM/U-L10300	41	47	76	3/4"	20	21	152	1200
RVM/U-L10650				1"	25	17	130	1050

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⁾
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Normally open M 12x1 (-20 °C - 85 °C)	250V • 3A • 100VA
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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 NBR
Gaskets ⁽³⁾ :	(optional FKM, EPDM) ⁽⁴⁾
Magnets:	Hard ferrite
Housing:	Brass nickel-plated

All other wetted parts:

Brass

Stainless steel version

Wetted parts:

Spring:	1.4571 FKM
Gaskets ⁽³⁾ :	(optional NBR, EPDM) ⁽⁴⁾
Magnets:	Hard ferrite
Housing:	1.4571

All other wetted parts:

1.4571

⁽³⁾ Threaded connections only

⁽⁴⁾ Other gasket materials on request

