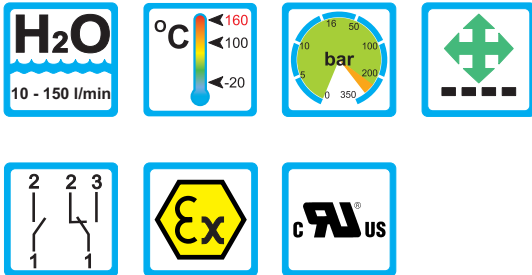


RVM/U-1



Range of Application

Measuring Principle

- Float measuring principle

Application

- Machine construction
- Medical technology
- Pharmaceutical industry
- Chemical industry
- Research and development
- Cooling systems and cooling circuits

Features

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

Installation information

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

Operating Data

| | |
|----------------------------|--|
| Maximum operating pressure | 250 bar (Brass) 300 bar (Stainless Steel) |
| Pressure drop | 0,02 - 0,4 bar |
| Maximum fluid temperature | 100 °C (optional 160 °C) |
| Accuracy | ±10 % of full scale |

Measuring Ranges

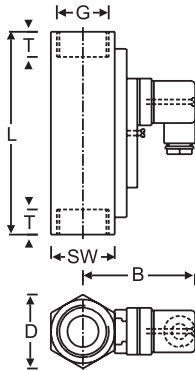
| Type | Flow ranges for H ₂ O at 20 °C ⁽¹⁾ | | |
|-------------|--|---------------|-------------|
| | [l/min] | [gph] | [gpm] |
| RVM/U-1/30 | 10 - 30 | 160,0 - 480,0 | |
| RVM/U-1/45 | 15 - 45 | 240,0 - 710,0 | |
| RVM/U-1/60 | 20 - 60 | 320,0 - 950,0 | |
| RVM/U-1/90 | 30 - 90 | | 8,0 - 24,0 |
| RVM/U-1/150 | 60 - 150 | | 16,0 - 40,0 |

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

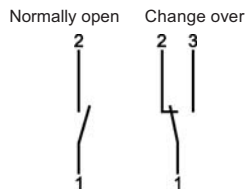


Technical Data

Mechanical drawing



Electrical connection diagram



Summary of types

| Type: | Overall dimensions [mm] | | | | | | | Weight (approx.) [g] |
|--------------------|-------------------------|----|----|------|----|----|-----|----------------------|
| | SW | D | B | G | DN | T | L | |
| RVM/U-1/30 | | | | | | | | |
| RVM/U-1/45 | | | | 3/4" | 20 | 21 | 152 | 1200 |
| RVM/U-1/60 | 41 | 47 | 76 | 1" | 25 | 17 | 130 | 1050 |
| RVM/U-1/90 | | | | | | | | |
| RVM/U-1/150 | 41 | 47 | 76 | 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⁾

Normally open M 12x1 (-20 °C - 85 °C) 250V • 3A • 100VA

Change over SPS 250V • 1A • 60VA

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
Gaskets ⁽³⁾: NBR
(optional FKM, EPDM) ⁽⁴⁾
Magnets: Hard ferrite
Housing: Brass nickel-plated

All other wetted parts: Brass

Stainless steel version

Wetted parts:

Spring: 1.4571
Gaskets ⁽³⁾: FKM
(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



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