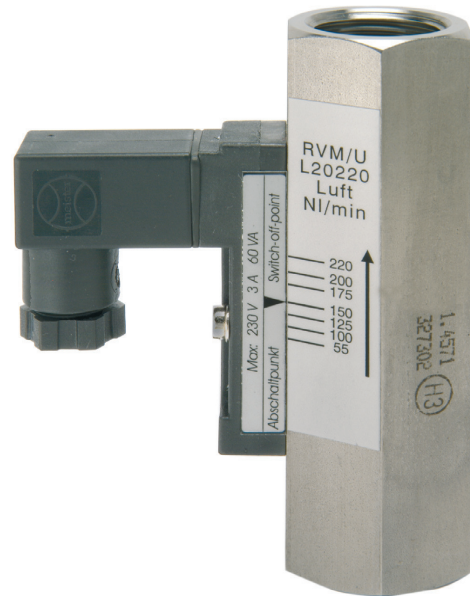
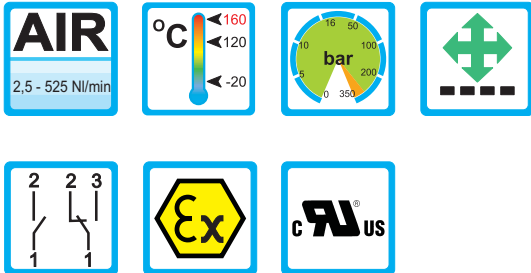


Flow Monitor

RVM/U-L2



Range of Applications

Operation

- Float measuring principle

Application

- General mechanical engineering
- Medical technology
- Pharmaceutical industry
- Chemical industry
- Research and development
- Cooling systems and cooling circuits

Features

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

Installation information

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

Operating Data

| | |
|----------------------------|--|
| Maximum operating pressure | 300 bar (Brass) 350 bar (Stainless steel) |
| Pressure drop | 0,02 - 0,3 bar |
| Maximum temperature | 120 °C (optional 160 °C) |
| Accuracy | ±10 % of full scale |

Measuring Ranges

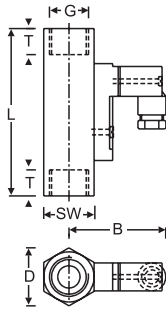
| Type | Switch range for Air at 1 bar abs. and 20 °C ⁽¹⁾ | | |
|--------------|---|---------------|------------|
| | [NI/min] | [SCFH] | [SCFM] |
| RVM/U-L20010 | 2,5 - 10 | 5,50 - 21,0 | |
| RVM/U-L20020 | 5,5 - 20 | 12,0 - 42,0 | |
| RVM/U-L20030 | 8 - 30 | 17,0 - 64,0 | |
| RVM/U-L20035 | 10 - 35 | 21,0 - 74,0 | |
| RVM/U-L2/3 | 24 - 90 | 50,0 - 190,0 | |
| RVM/U-L20220 | 55 - 220 | 115,0 - 465,0 | |
| RVM/U-L20240 | 65 - 240 | 140,0 - 510,0 | |
| RVM/U-L20300 | 80 - 300 | 170,0 - 640,0 | |
| RVM/U-L20525 | 140 - 525 | | 5,0 - 18,5 |

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

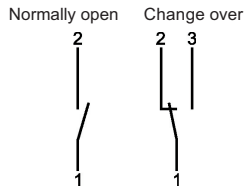


Technical Data

Technical drawing



Connection diagram



Summary of types

| Type: | Overall dimensions [mm] | | | | | | | Weight (approx.) [g] |
|--------------|-------------------------|----|----|------|----|----|----|----------------------|
| | SW | D | B | G | DN | T | L | |
| RVM/U-L20010 | | | | | | | | |
| RVM/U-L20020 | | | | | | | | |
| RVM/U-L20030 | | | | | | | | |
| RVM/U-L20035 | | | | | | | | |
| RVM/U-L2/3 | 27 | 31 | 52 | 1/2" | 15 | 14 | 90 | 350 |
| RVM/U-L20220 | | | | | | | | |
| RVM/U-L20240 | | | | | | | | |
| RVM/U-L20300 | | | | | | | | |
| RVM/U-L20525 | | | | | | | | |

Electrical Data

| | |
|----------------------------|-----------------------------------|
| Change over ⁽³⁾ | 250V • 1,5A • 50VA ⁽²⁾ |
| Normally open | 230V • 3A • 60VA |

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) | 125V • 1,5A • 50VA ⁽²⁾ |
| Normally open M 12x1 (-20 °C - 85 °C) | 125V • 3A • 100VA |

| | |
|--------------------------------|------------------|
| Change over SPS ⁽³⁾ | 250V • 1A • 60VA |
|--------------------------------|------------------|

Ingress Protection:

IP65: plug connector DIN 43650 Form C or plug connector M 12x1
 IP67: 1 m sealed in cable, (with EEx-version 2 m)

Output Signal

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

Power supply

Not required (potential free reed contacts)

Plug types

Other plug types or cable lengths on request

⁽²⁾ Minimum load 3 VA

⁽³⁾ Only with plug connector

Materials

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/U-L2.2 0010 06-12 E M

