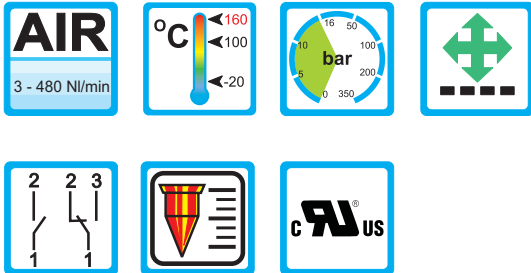


# Flow Monitor Flow Indicator

## RVO/U-L2



### Range of Application

#### 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
- Scales is burned into the sight glass
- Threaded connection, special threads on request

#### Installation information

- The operating instructions for RVO/U-L must be observed!
- Download: [www.meister-flow.com](http://www.meister-flow.com)

### Operating Data

|                         |                          |
|-------------------------|--------------------------|
| Operating pressure max. | 16 bar                   |
| Pressure drop           | 0,02 - 0,3 bar           |
| Maximum temperature     | 100 °C (optional 160 °C) |
| Accuracy                | ±10 % of full scale      |

### Measuring Ranges

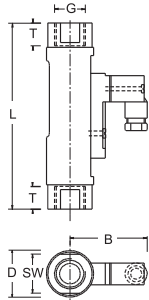
| Type         | Switch range for Air at 1 bar abs. and 20 °C <sup>(1)</sup> |             |            |
|--------------|---|-------------|------------|
|              | [NI/min]  | [SCFH]      | [SCFM]     |
| RVO/U-L20012 | 3 - 12  | 6,5 - 25,0  |            |
| RVO/U-L20030 | 7 - 30  | 15,0 - 64,0 |            |
| RVO/U-L20040 | 12 - 40   | 25,0 - 85,0 |            |
| RVO/U-L20080 | 20 - 80   |             | 0,7 - 2,8  |
| RVO/U-L20125 | 28 - 125  |             | 1,0 - 4,4  |
| RVO/U-L20200 | 50 - 200  |             | 1,8 - 7,0  |
| RVO/U-L2/15  | 100 - 420   |             | 3,5 - 14,8 |
| RVO/U-L2/20  | 120 - 480   |             | 4,2 - 17,0 |

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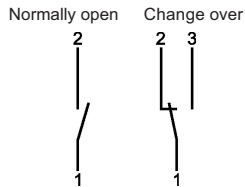


# Technical Data

## Technical drawing



## Connection diagram



## Summary of types

| Type:        | Overall dimensions [mm] |    |    |      |    |    |     | Weight (approx.) [g] |
|--------------|-------------------------|----|----|------|----|----|-----|----------------------|
|              | SW                      | D  | B  | G    | DN | T  | L   |                      |
| RVO/U-L20012 |                         |    |    |      |    |    |     |                      |
| RVO/U-L20030 |                         |    |    |      |    |    |     |                      |
| RVO/U-L20040 |                         |    |    |      |    |    |     |                      |
| RVO/U-L20080 | 27                      | 32 | 53 | 1/2" | 15 | 14 | 114 | 300                  |
| RVO/U-L20125 |                         |    |    |      |    |    |     |                      |
| RVO/U-L20200 |                         |    |    |      |    |    |     |                      |
| RVO/U-L2/15  |                         |    |    |      |    |    |     |                      |
| RVO/U-L2/20  |                         |    |    |      |    |    |     |                      |

## Electrical Data

|  |                                   |
|--|-----------------------------------|
| <b>Change over</b> <sup>(3)</sup>            | 250V • 1,5A • 50VA <sup>(2)</sup> |
| <b>Normally open</b>                         | 230V • 3A • 60VA                  |
| <b>Change over M 12x1 (-20 °C - 85 °C)</b>   | 125V • 1,5A • 50VA <sup>(2)</sup> |
| <b>Normally open M 12x1 (-20 °C - 85 °C)</b> | 125V • 3A • 60VA                  |
| <b>Change over SPS</b> <sup>(3)</sup>        | 250V • 1A • 60VA                  |

### Ingress Protection:

IP65: plug connector DIN 43650 Form C or plug connector M 12x1  
IP67: 1 m sealed in cable

### 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

<sup>(2)</sup> Minimum load 3 VA

<sup>(3)</sup> Only with plug connector

## Materials

### Brass version

#### Wetted parts:

|                        |  |
|------------------------|--|
| Sight glass:           | Duran® 50                                  |
| Spring:                | 1.4571                                     |
| Gaskets:               | NBR<br>(optional FKM, EPDM) <sup>(4)</sup> |
| Magnets:               | Hard ferrite                               |
| All other wetted parts | Brass nickel-plated                        |

#### Non wetted parts:

Housing: Aluminium anodized

### Stainless steel version

#### Wetted parts:

|                        |  |
|------------------------|--|
| Sight glass:           | Duran® 50                                  |
| Spring:                | 1.4571                                     |
| Gaskets:               | FKM<br>(optional NBR, EPDM) <sup>(4)</sup> |
| Magnets:               | Hard ferrite                               |
| All other wetted parts | 1.4571                                     |

#### Non wetted parts:

Housing: Aluminium anodized

<sup>(4)</sup> Other gasket materials on request

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