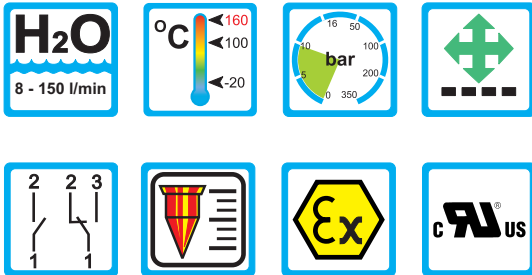


# Flow Monitor Flow Indicator

## RVO/U-1



### Range of Application

#### 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 switch accuracy
- Infinitely variable switchpoint adjustment through user
- EX-version to ATEX available
- Threaded connection, special threads on request

#### Installation hints

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

### Operating Data

|                         |                          |
|-------------------------|--------------------------|
| Operating pressure max. | 10 bar                   |
| Pressure drop           | 0,02 - 0,4 bar           |
| Maximum temperature     | 100 °C (optional 160 °C) |
| Accuracy                | ±10 % of full scale      |

### Measuring Ranges

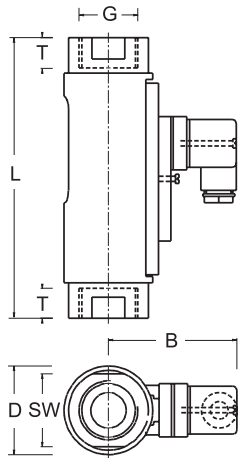
| Type        | Flow ranges for H <sub>2</sub> O at 20 °C <sup>(1)</sup> |       |             |
|-------------|--|-------|-------------|
|             | [l/min]  | [gph] | [gpm]       |
| RVO/U-1/30  | 8 - 30   |       | 2,1 - 8,0   |
| RVO/U-1/45  | 15 - 45  |       | 4,0 - 12,0  |
| RVO/U-1/90  | 30 - 90  |       | 8,0 - 24,0  |
| RVO/U-1/150 | 60 - 150   |       | 16,0 - 40,0 |

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

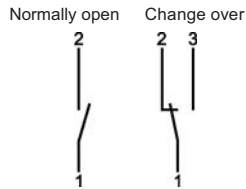


# Technical Data

## Mechanical drawing



## Connection diagram



## Summary of types

| Type:       | Overall dimensions [mm] |    |    |      |    |    |     | Weight (approx.) [g] |
|-------------|-------------------------|----|----|------|----|----|-----|----------------------|
|             | SW                      | D  | B  | G    | DN | T  | L   |                      |
| RVO/U-1/30  |                         |    |    |      |    |    |     |                      |
| RVO/U-1/45  | 41                      | 50 | 77 | 3/4" | 20 | 18 | 139 | 800                  |
| RVO/U-1/90  |                         |    |    | 1"   | 25 |    | 158 | 900                  |
| RVO/U-1/150 | 41                      | 50 | 77 | 1"   | 25 | 18 | 158 | 900                  |

## Electrical Data

|               |                                   |
|---------------|-----------------------------------|
| Change over   | 250V • 1,5A • 50VA <sup>(2)</sup> |
| 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 <sup>(2)</sup> |
|-------------------------------------|-----------------------------------|

|                                       |                   |
|---------------------------------------|-------------------|
| 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

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

## Material

### Brass version

#### Wetted parts:

|                        |  |
|------------------------|--|
| Sight glass:           | Duran® 50                                  |
| Spring:                | 1.4571                                     |
| Gaskets:               | NBR<br>(optional FKM, EPDM) <sup>(3)</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>(3)</sup> |
| Magnets:               | Hard ferrite                               |
| All other wetted parts | 1.4571                                     |

#### Non wetted parts:

|          |                    |
|----------|--------------------|
| Housing: | Aluminium anodized |
|----------|--------------------|

<sup>(3)</sup> Other gasket materials on request

