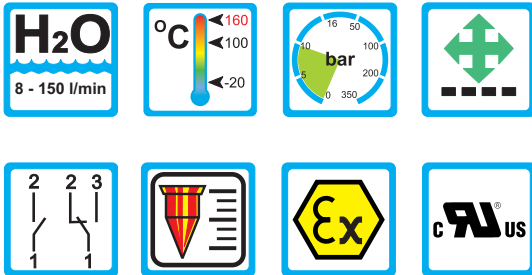


Flow Monitor Flow Indicator

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

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

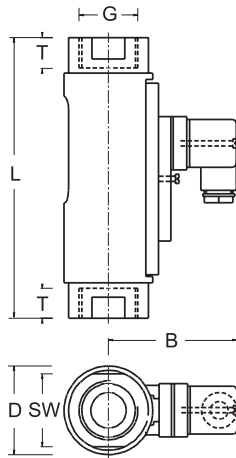
Type	Flow ranges for H ₂ O at 20 °C ⁽¹⁾		
	[l/min]	[gph]	[gpm]
RVO/U-1/30	8 - 30		2,1 - 8,0
RVO/U-1/45	15 - 45		4,0 - 12,0
RVO/U-1/90	30 - 90		8,0 - 24,0
RVO/U-1/150	60 - 150		16,0 - 40,0

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

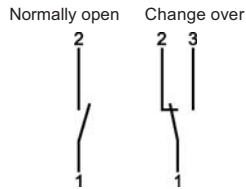


Technical Data

Mechanical drawing



Connection diagram



Summary of types

Type:	Overall dimensions [mm]							Weight (approx.) [g]
	SW	D	B	G	DN	T	L	
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 ⁽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:

Sight glass:	Duran® 50
Spring:	1.4571
Gaskets:	NBR (optional FKM, EPDM) ⁽³⁾
Magnets:	Hard ferrite
All other wetted parts	Brass nickel-plated

Non wetted parts:

Housing:	Aluminium anodized
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Stainless steel version

Wetted parts:

Sight glass:	Duran® 50
Spring:	1.4571
Gaskets:	FKM (optional NBR, EPDM) ⁽³⁾
Magnets:	Hard ferrite
All other wetted parts	1.4571

Non wetted parts:

Housing:	Aluminium anodized
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⁽³⁾ Other gasket materials on request

