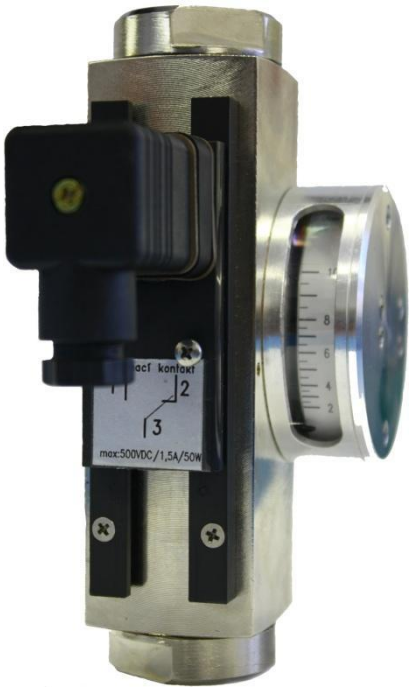
RW Flow Switch

DESCRIPTION

The RW flow switch includes a spring, pressed by a float in the flowing medium. This flow switch operates in all working positions due to a spring that acts on the float by the opposite force compared to the flowing medium. The float includes a permanent magnet, actuating a sensor or a needle in the indicator housing.



USE

RW Flow switches are used to control the flow of oil and other viscous media. Due to their design, the threshold accuracy is acceptable whenever the medium viscosity changes. The kinematic viscosity of the medium may range from 1 cSt to 1000 cSt.

FEATURES

- reliable operation and easy handling
- designed for all working positions
- viscosity compensation
- low hysteresis of local indications and el. contacts
- easy adjustment of switching points by the operator
- optional connections according to the customers´ requirements
- high-pressure resistance

ELECTRICAL OUTPUTS

Contact type:	**SPP (change-over switch)**
Max. voltage	400 VDC
Max. switching current:	2.1 A
Contact load:	60 W
Max. temperature:	-40 to +150 ° C
Contact type:	**SP (switch)**
Max. voltage	400 VDC
Max. switching current:	2.1 A
Contact load:	60 W
Max. temperature:	-40 to +150 ° C
Sensor type:	**SP6M**

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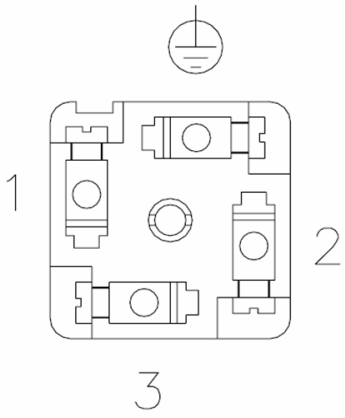
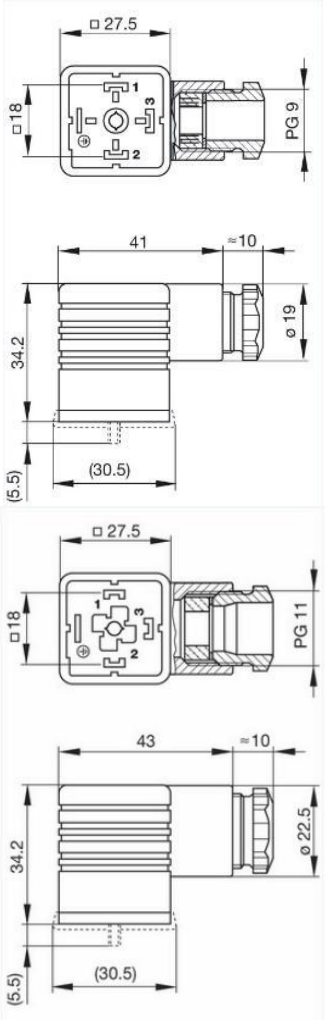
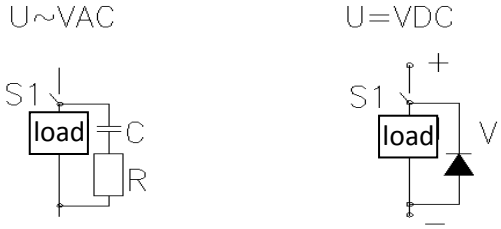
Operating voltage:	10 to 30 V DC
Max. temperature:	80 °C
Output:	4 to 20 mA
Max. operating pressure	300 bar (stainless steel), 250 bar (brass)

Dimensions and wiring diagram (sensor)

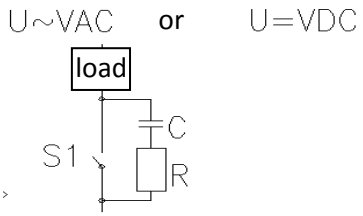


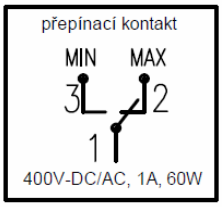


Recommended contact protection under inductive load



Inductive or resistive load





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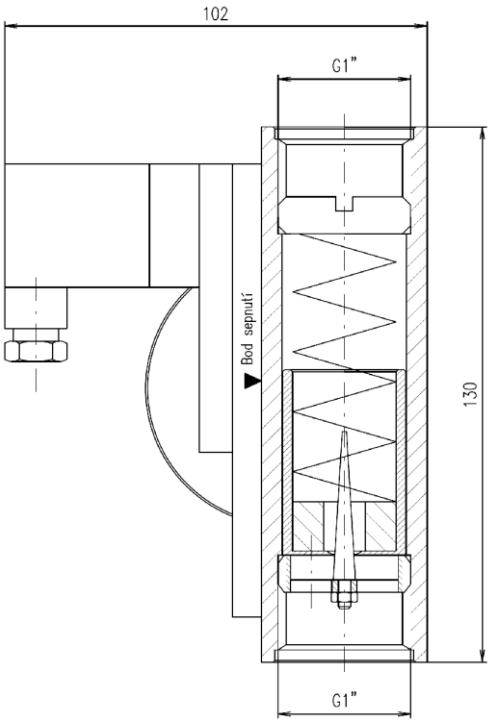
Product Marking:

RW ... / ... / ... / ... / ...
1. 2. 3. 4. 5th

Ex. RW05 / 5 / K3 / SPP / BL / HL



1. Measuring range:

RW0.1/1:	0.1 to 1 liter / min
RW0.5/2:	0.1 to 1 liter / min
RW1/4:	1 to 4 l / min
RW 0.5/5:	0.5 to 5 l / min
RW 2.8:	2 to 8 l / min
RW 3/10:	3 to 10 l / min
RW 5/15:	5 to 15 l / min
RW 5/20:	5 to 20 l / min
RW 8/24:	8 to 24 l / min
RW 10/30:	10 to 30 l / min
RW 15/45:	15 to 45 l / min
RW 20/60:	20 to 60 l / min
RW 30/90:	30 to 90 l / min
RW 35/110:	35 to 110 l / min

Other ranges on request.

2. Material:

K1 - DIN 1.4541 stainless steel
K2 - DIN 1.4571 stainless steel
K3 - brass
K4 - different materials on request

3. Sensor type:

SP - switching contact
SPP - change-over contact
SP6M

4. Location of display housings:

AL
AR
BL
BR
CL
CR

5. Operating position according to

VB - vertical position, bottom inlet
VT - vertical position, top inlet
HR- horizontal position, left-to-right

the flow direction:	inlet
	HL - horizontal position, right-to-left inlet

FTZU 02 ATEX 0454X Ex Version Approval

Note: Customized process connections

Installation

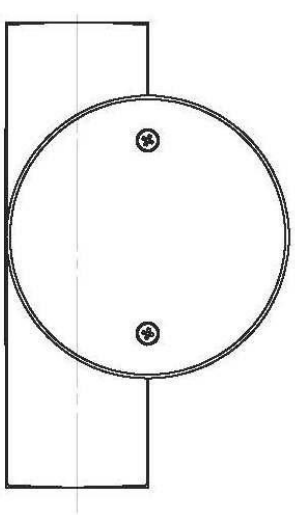
- the flow switch may be installed at any point in the system
- keep the flow direction (see the arrow on the switch body)
- the device must not be used as a pipeline support or console
- the medium must not include solid particles which might damage the unit
- do not install the flow switch near ambient magnetic fields (e.g. motors) affecting its correct operation

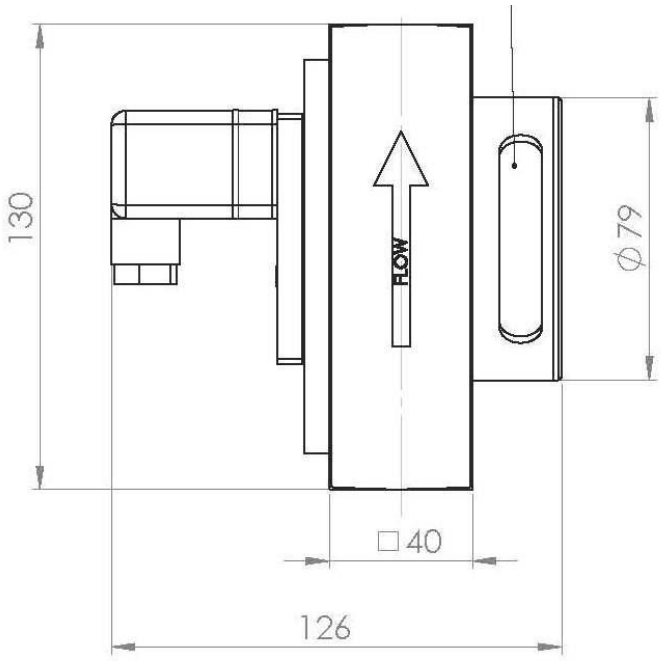
Sensor set-up:

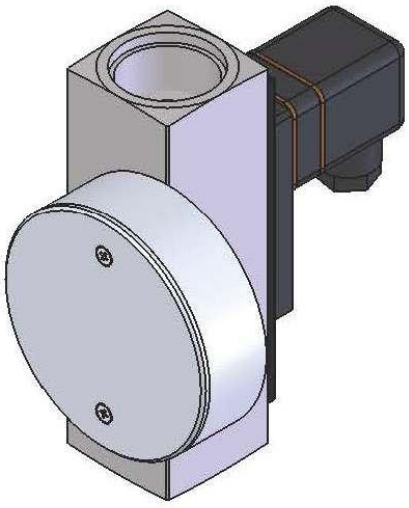
1. Loosen two M3 set-screws on the sensor.
2. Move the sensor so that the scale-line indicates the desired value of the flow rate.
3. After setting the switching point, tighten the M3 set-screws.

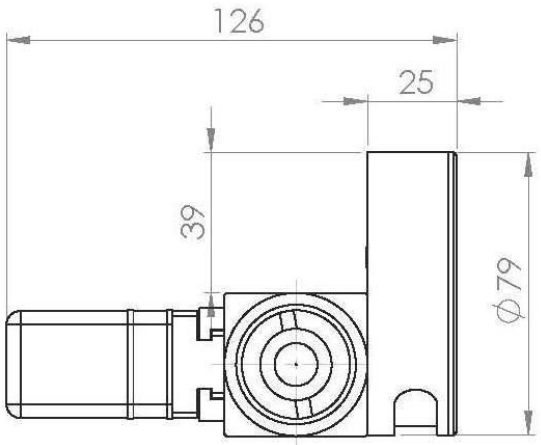
Dimensional drawings and the position of the sensor and indicator housing:

scale









AR – flow direction ↑

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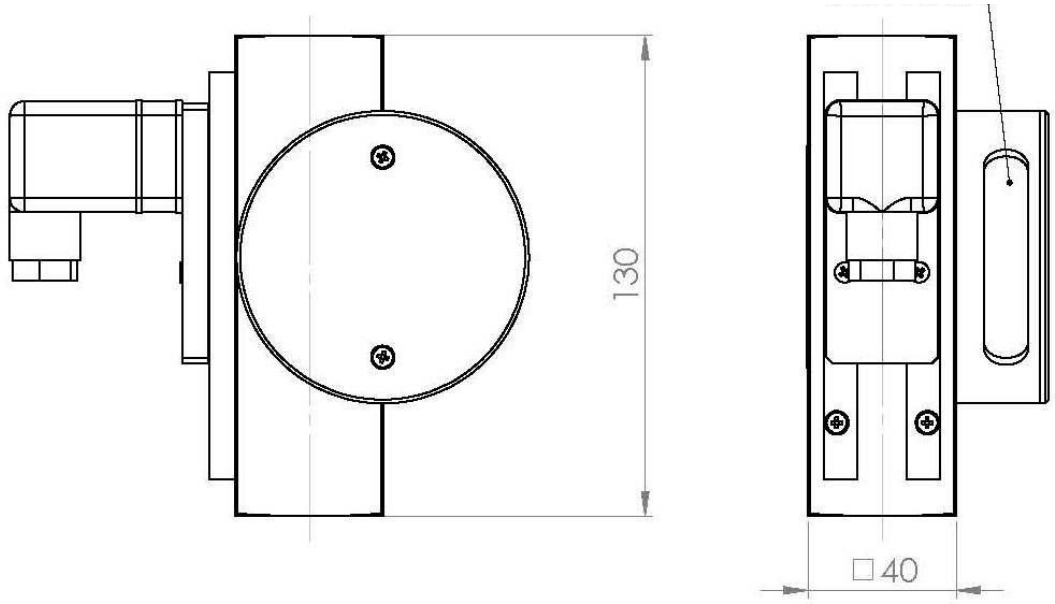
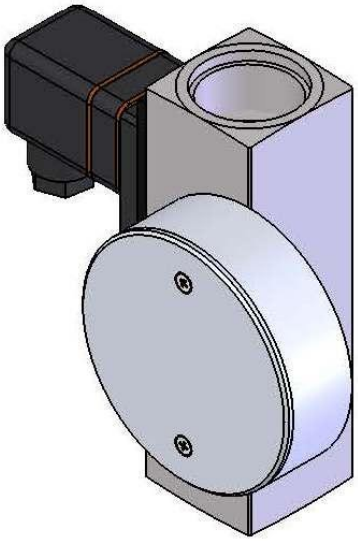
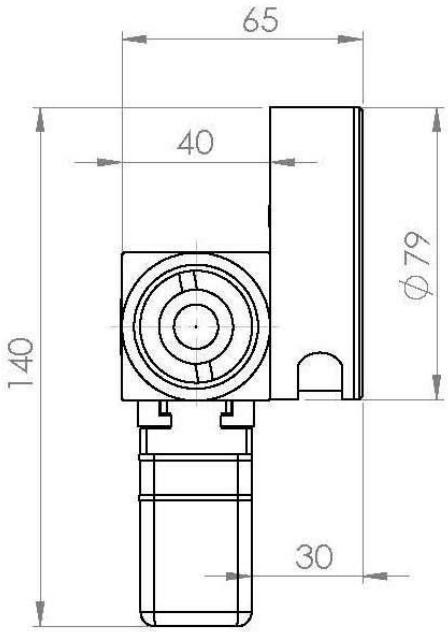
scale







BR – flow direction ↑

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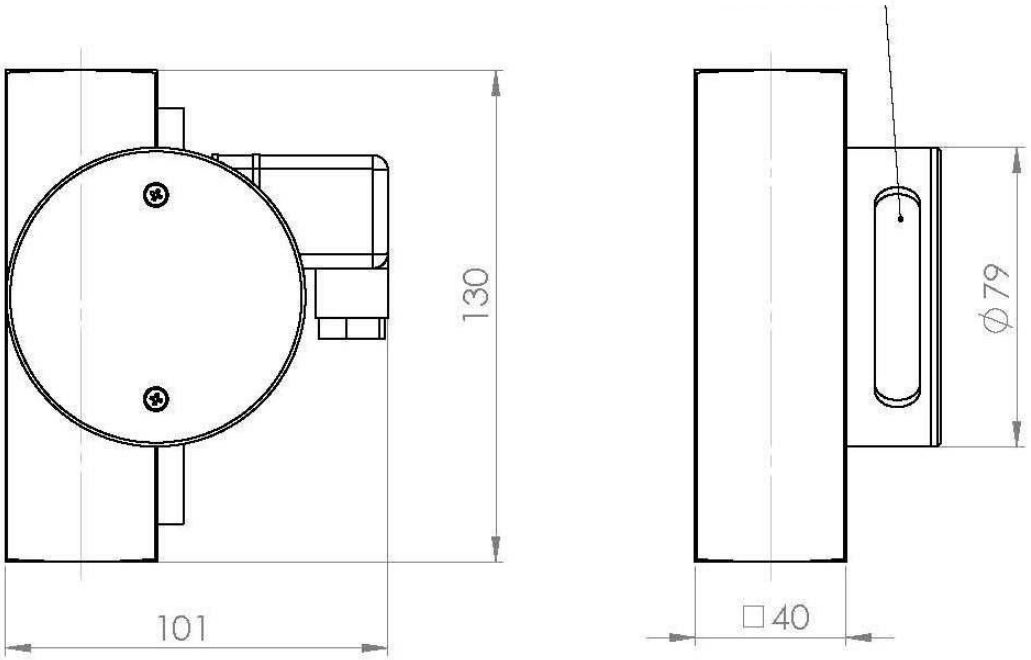
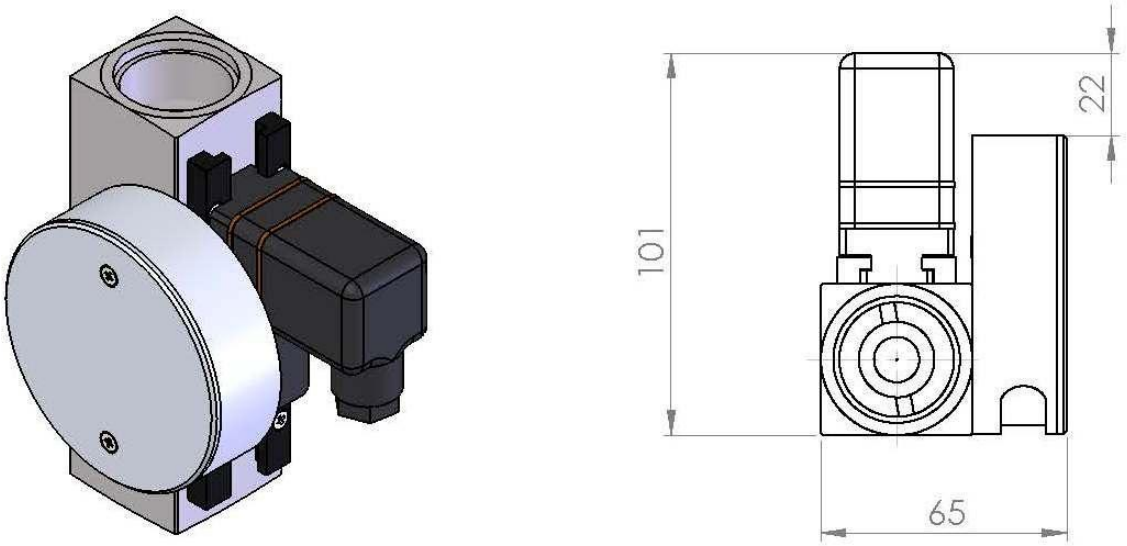
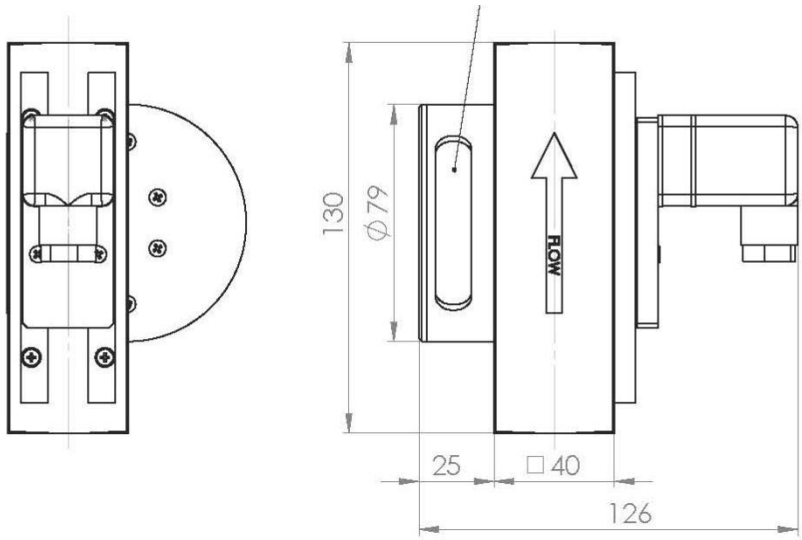
scale

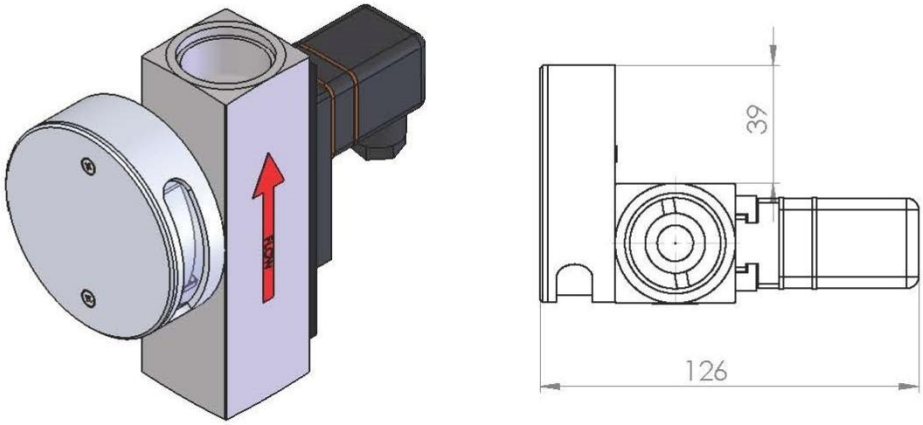




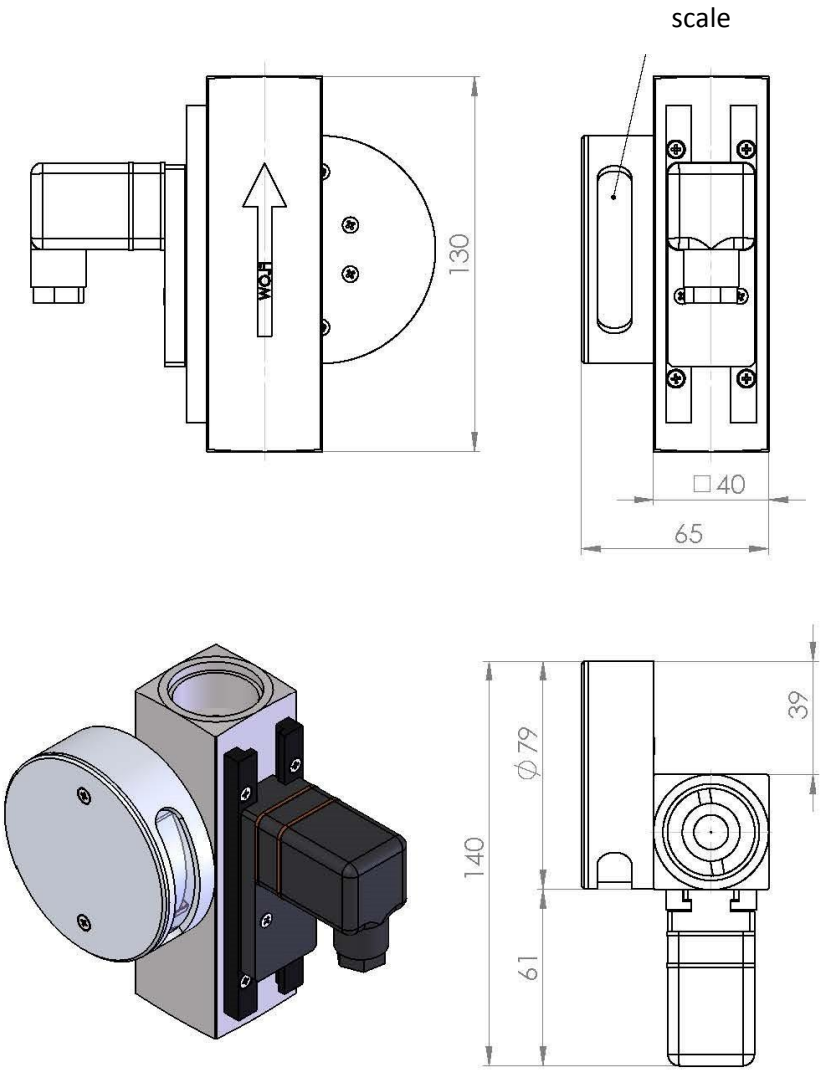
CR – flow direction ↑

scale





AL – flow direction ↑



BL – flow direction ↑

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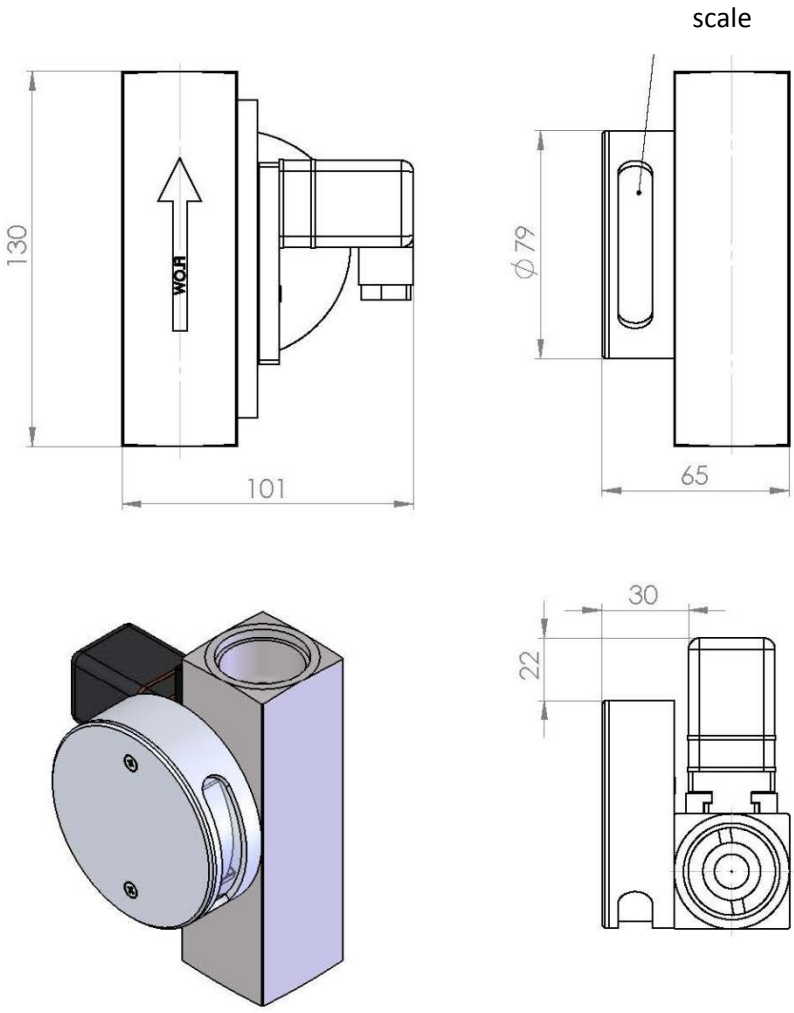
scale



CL – flow direction ↑

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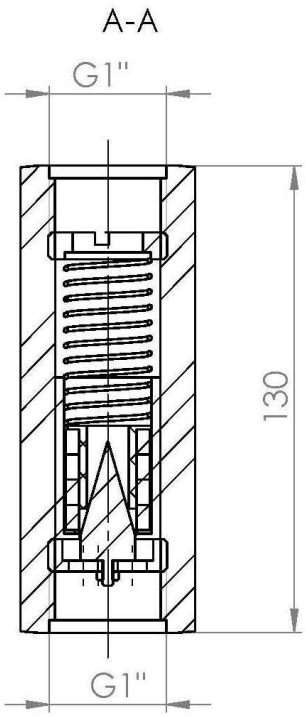
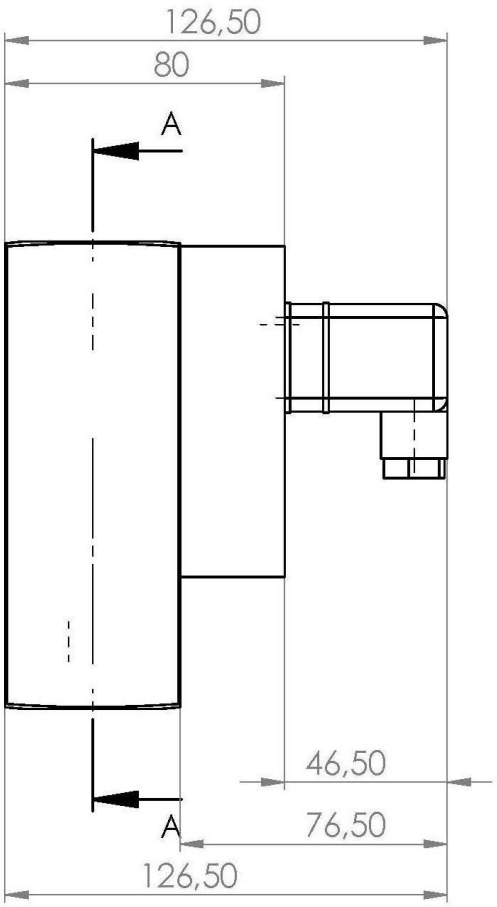
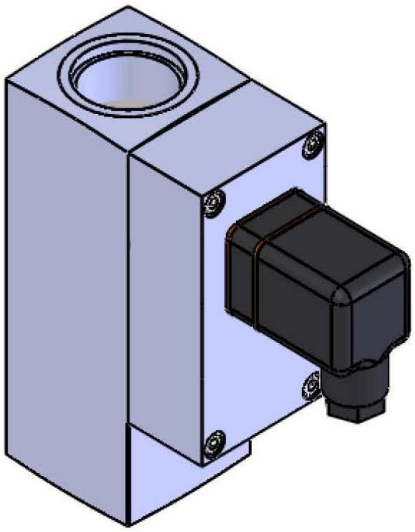
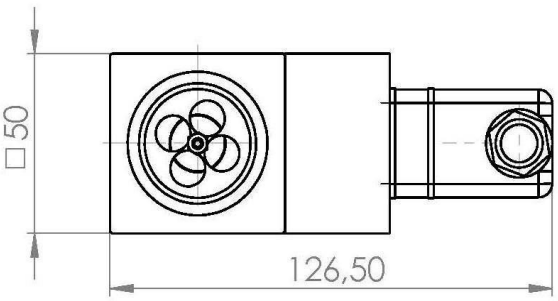
SP6M Sensor









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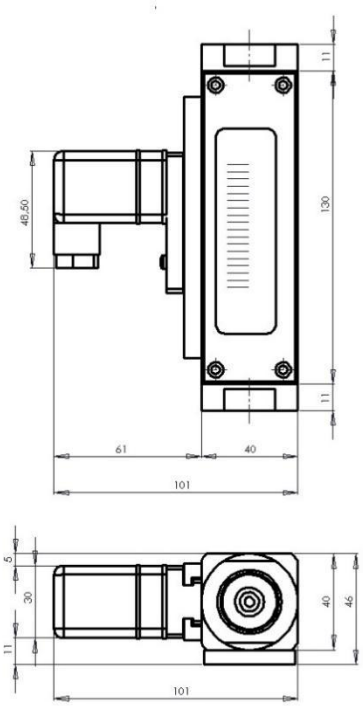
Model AP dimensional drawings:

RW - SPP sensor, SP + indicator housing, moving magnet



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