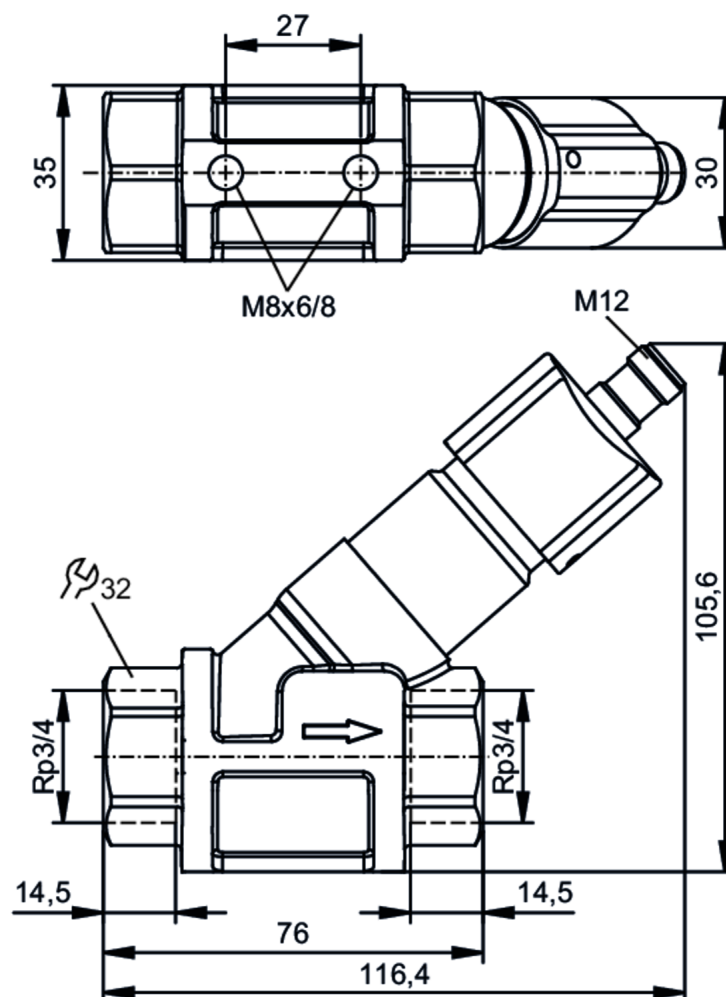


## Flow transmitter with integrated backflow prevention

SBY34HF010KG/US

Please note the changed housing design!



### Product characteristics

|                    |         |  |
|--------------------|---------|--|
| Measuring range    | [l/min] | 2...50                                     |
| Process connection |         | threaded connection Rp 3/4 internal thread |

### Application

|                    |        |  |
|--------------------|--------|--|
| Media              |        | Liquids; water; glycol solutions; coolants |
| Medium temperature | [°C]   | -10...100                                  |
| Pressure rating    | 40 bar | 4 MPa                                      |

### Electrical data

|                             |      |                            |
|-----------------------------|------|----------------------------|
| Operating voltage           | [V]  | 18...32 DC; (to SELV/PELV) |
| Current consumption         | [mA] | < 35                       |
| Protection class            |      | III                        |
| Reverse polarity protection |      | yes                        |

### Outputs

|               |  |                 |
|---------------|--|-----------------|
| Output signal |  | analogue signal |
|---------------|--|-----------------|



## Flow transmitter with integrated backflow prevention

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|                          |      |        |
|--------------------------|------|--------|
| Analogue current output  | [mA] | 4...20 |
| Max. load                | [Ω]  | 500    |
| Short-circuit protection |      | yes    |
| Overload protection      |      | yes    |

### Measuring/setting range

|                 |         |        |
|-----------------|---------|--------|
| Measuring range | [l/min] | 2...50 |
|-----------------|---------|--------|

### Accuracy / deviations

|                 |                        |     |
|-----------------|------------------------|-----|
| Repeatability   |                        | 1   |
|                 | [% of the final value] |     |
| Measuring error |                        | ± 5 |
|                 | [% of the final value] |     |

### Response times

|               |     |        |
|---------------|-----|--------|
| Response time | [s] | < 0.01 |
|---------------|-----|--------|

### Operating conditions

|                     |      |              |
|---------------------|------|--------------|
| Ambient temperature | [°C] | 0...60       |
| Storage temperature | [°C] | -15...80     |
| Protection          |      | IP 65; IP 67 |

### Tests / approvals

|                      |                   |                    |
|----------------------|-------------------|--------------------|
| EMC                  | DIN EN 61000-6-2  |                    |
|                      | DIN EN 61000-6-3  |                    |
| Shock resistance     | DIN EN 60068-2-27 | 20 g (11 ms)       |
| Vibration resistance | DIN EN 60068-2-6  | 5 g (10...2000 Hz) |
| MTTF                 | [years]           | 778                |

### Mechanical data

|                             |     |   |
|-----------------------------|-----|---|
| Weight                      | [g] | 469   |
| Materials                   |     | brass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PA   |
| Materials (wetted parts)    |     | stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM |
| Process connection          |     | threaded connection Rp 3/4 internal thread  |
| Switching cycles mechanical |     | 10 million  |

### Remarks

|               |  |
|---------------|--|
| Remarks       | Recommendation Use 200 micron filtration |
|               | All data refer to water (20 °C).         |
| Notes         | Please note the changed housing design!  |
| Pack quantity | 1 pcs.                                   |

### Electrical connection

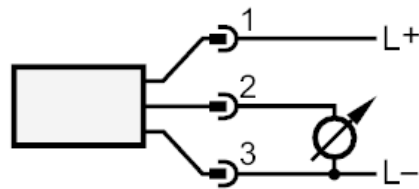
Connector: 1 x M12; coding: A



## Flow transmitter with integrated backflow prevention

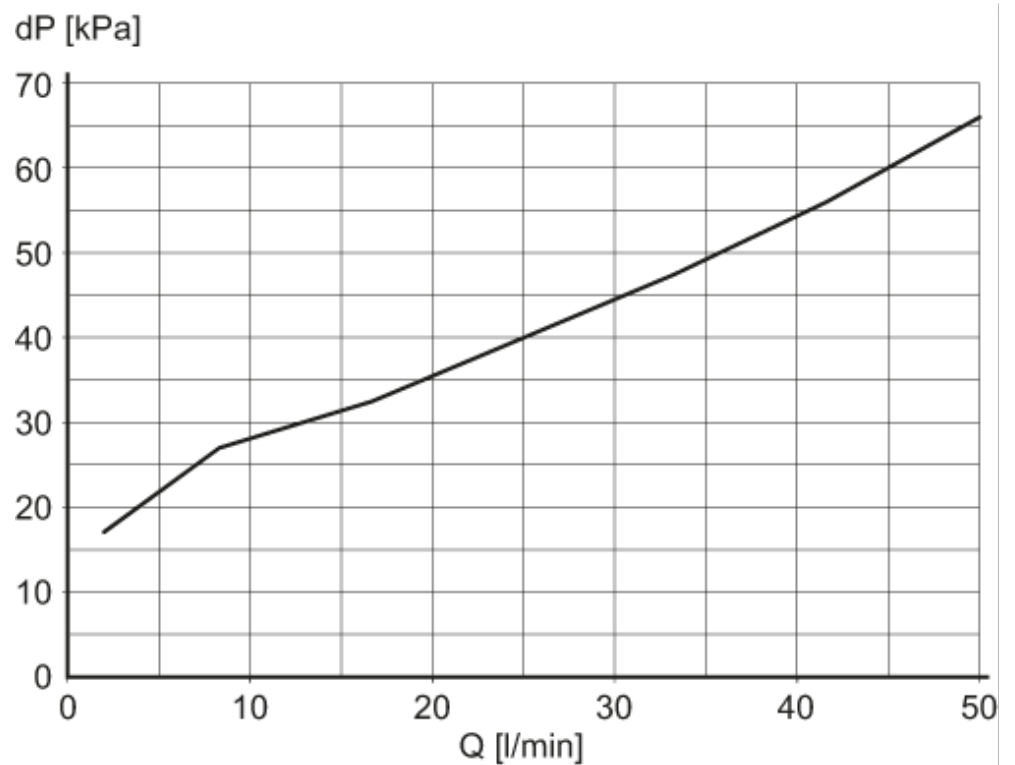
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### Connection



### Diagrams and graphs

#### Pressure loss



dP Pressure loss

Q volumetric flow quantity