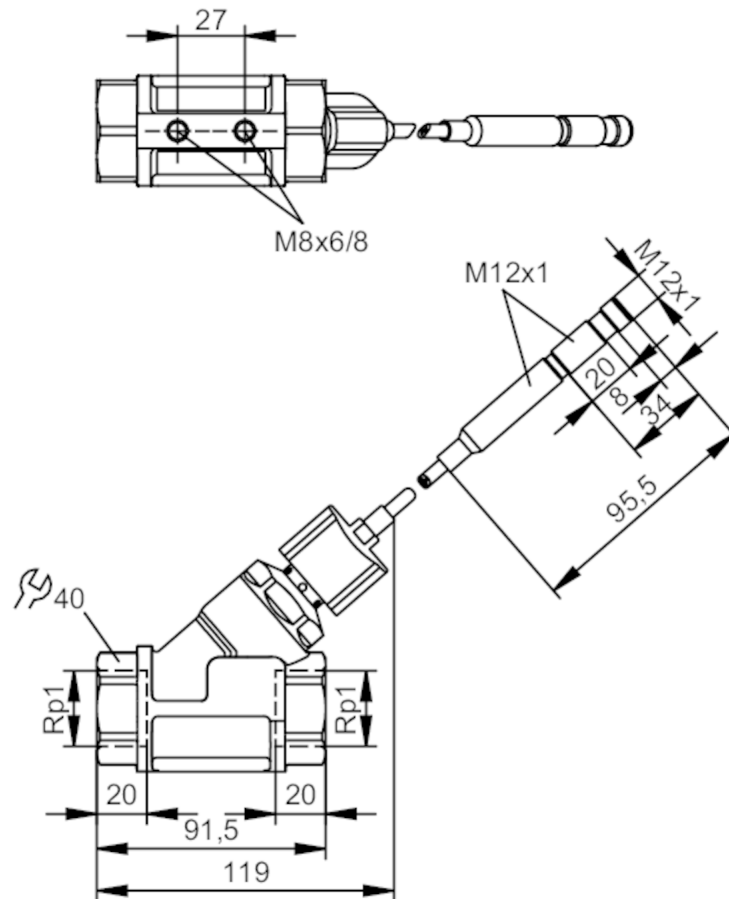


## Flow transmitter with integrated backflow prevention

SBT11XKX10KG/O/US



| Product characteristics     |         |                                  |
|-----------------------------|---------|----------------------------------|
| Measuring range             | [l/min] | 2...100                          |
| Process connection          |         | Rp 1                             |
| Application                 |         |                                  |
| Media                       |         | Liquids; water; glycol solutions |
| Medium temperature          | [°C]    | 10...180                         |
| Pressure rating             | [bar]   | 40                               |
| Pressure rating             | [MPa]   | 4                                |
| Note on pressure rating     |         | static                           |
| Electrical data             |         |                                  |
| Operating voltage tolerance | [%]     | -15...10                         |
| Operating voltage           | [V]     | 24 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

SBT11XXKX10KG/O/US

|                          |      |        |
|--------------------------|------|--------|
| 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...100 |
|-----------------|---------|---------|

### Accuracy / deviations

|                 |       |     |
|-----------------|-------|-----|
| Repeatability   | [X16] | 1   |
| Measuring error | [X16] | ± 5 |

### 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                 | [ANN]             | 393                |

### Mechanical data

|                             |     |                                                                                                                                                                                       |
|-----------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight                      | [g] | 1275                                                                                                                                                                                  |
| Materials                   |     | brass white bronze coated; PPS; copper alloy;<br>aluminium anodised; PEI; silicone; O-ring: EPDM; FKM                                                                                 |
| Materials (wetted parts)    |     | stainless steel (316 / 1.4401); stainless steel (1.4301 / 304); brass; brass chemically nickel-plated; PPS; O-ring: FKM; magnet: metallic alloy nickel-plated; Two-component adhesive |
| Process connection          |     | Rp 1                                                                                                                                                                                  |
| Switching cycles mechanical |     | 10 million                                                                                                                                                                            |

### Remarks

|               |                                          |
|---------------|------------------------------------------|
| Remarks       | Recommendation Use 200 micron filtration |
|               | All data refer to water (20 °C).         |
| Pack quantity | 1 pcs.                                   |

### Electrical connection

Cable: 0.3 m, silicone

### Electrical connection - plug

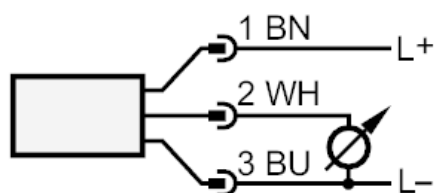
Connector: 1 x M12; coding: A



## Flow transmitter with integrated backflow prevention

SBT11XKX10KG/O/US

### Connection

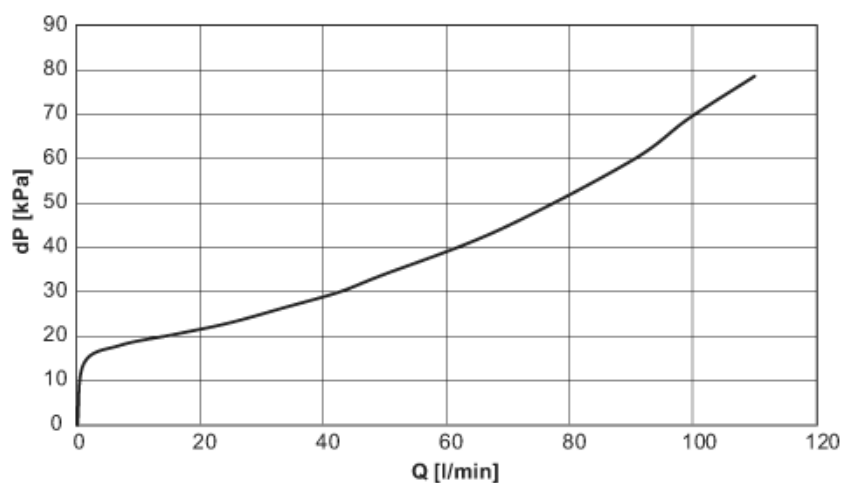


colours to DIN EN 60947-5-2

Core colours :

BN = brown  
BU = blue  
WH = white

### Diagrams and graphs



dP Pressure loss

Q volumetric flow quantity