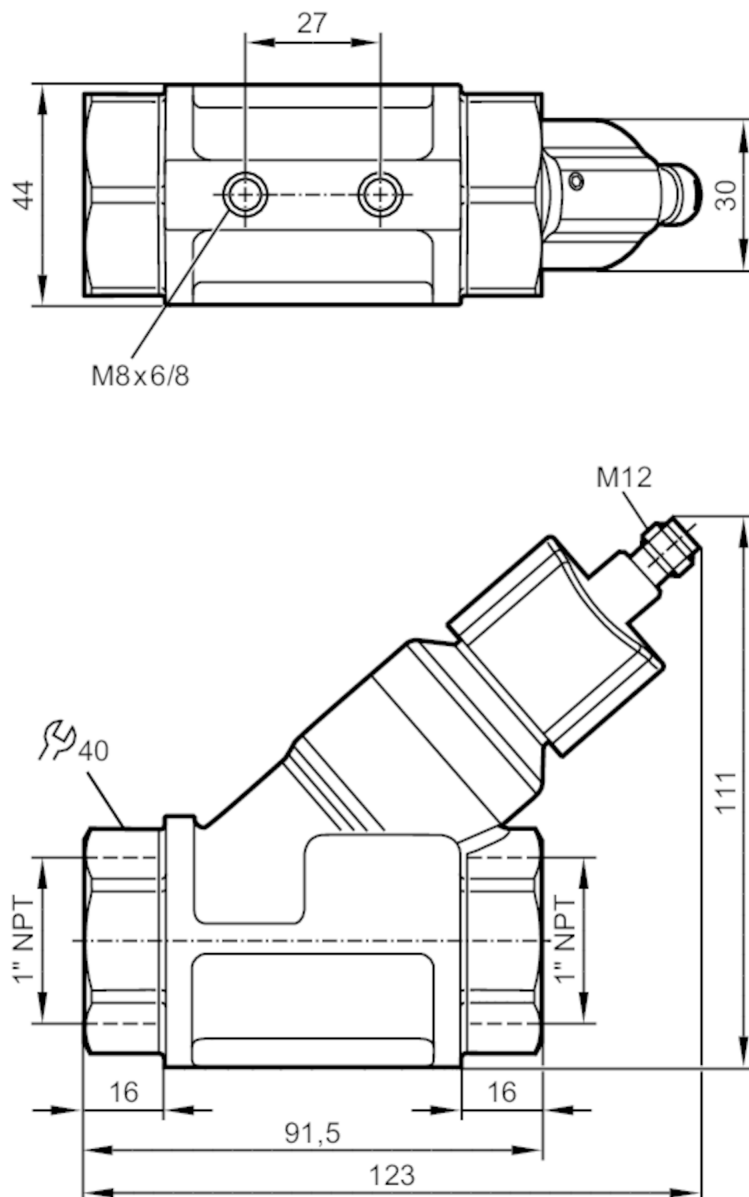# SBN446

Flow transmitter with integrated backflow prevention

SBN11HF010KG/US

Please note the changed housing design!

Product characteristics		
Measuring range	[gpm]	0.5...27
Process connection		1" NPT

Application		
Media		Liquids; water; glycol solutions; coolants
Medium temperature	[°F]	14...212
Pressure rating	[bar]	25
Pressure rating	[MPa]	2.5

SBN446

Flow transmitter with integrated backflow prevention

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

Measuring/setting range	
Measuring range [gpm]	0.5...27

Accuracy / deviations	
Repeatability [% of the final value]	1
Measuring error [% of the final value]	± 5

Response times	
Response time [s]	< 0.01

Operating conditions	
Ambient temperature [°F]	32...140
Storage temperature [°F]	5...176
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]	1117.05
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	1" NPT
Switching cycles mechanical	10 million

Remarks	
Remarks	Recommendation Use 200 micron filtration
	All data refer to water (68 °F).
Notes	Please note the changed housing design!
Pack quantity	1 pcs.

SBN446

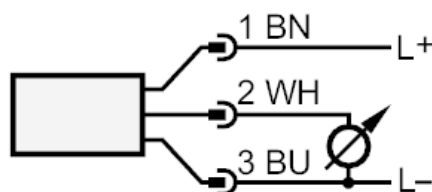### Flow transmitter with integrated backflow prevention

SBN11HF010KG/US

Electrical connection
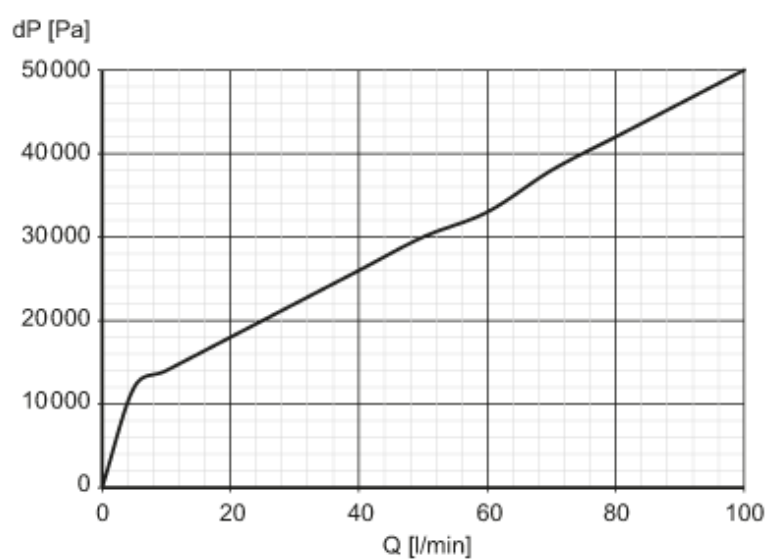
Connector: 1 x M12; coding: A

Connection

colours to DIN EN 60947-5-2
Core colours :

BN =	brown
BU =	blue
WH =	white

Diagrams and graphs

Pressure loss

dP   Pressure loss

Q   volumetric flow quantity