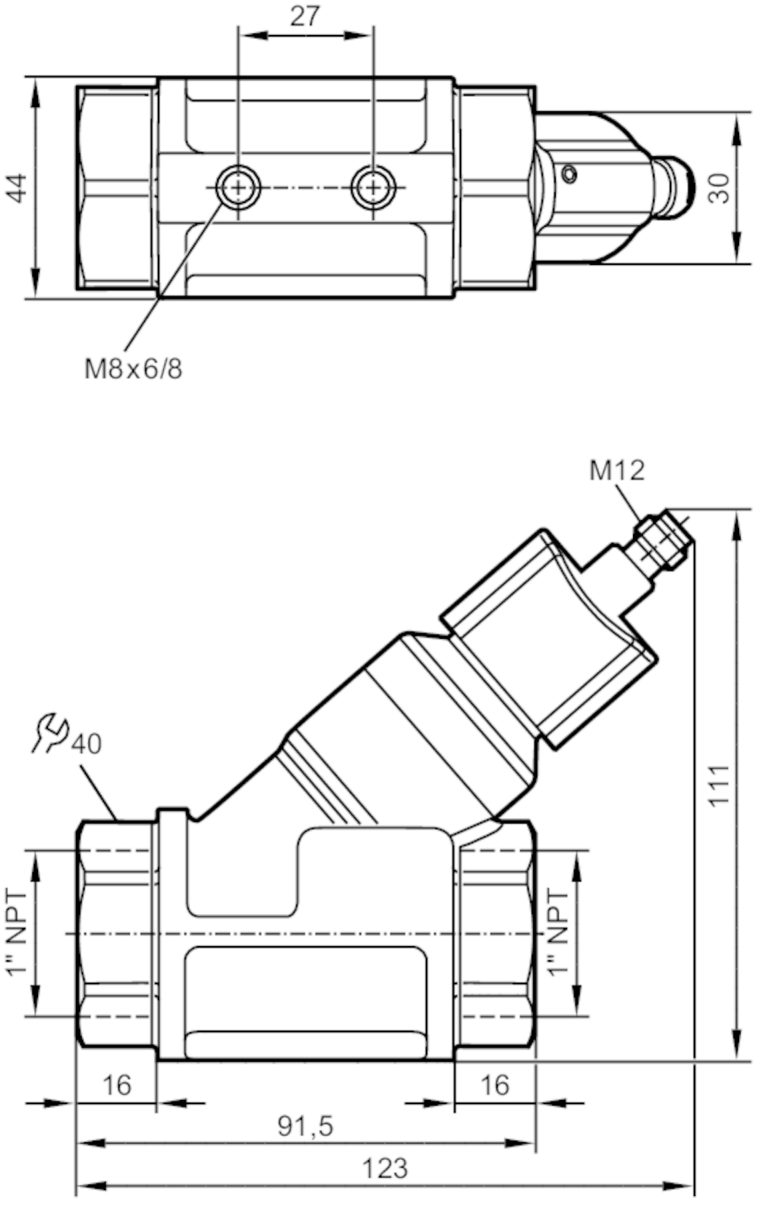
SBN446

Flow transmitters with fast response time

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

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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		analog signal	
Analog 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	
Reaction 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	
Material		brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PA	
Materials (wetted parts)		stainless steel (1.4401 / 316); 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.	

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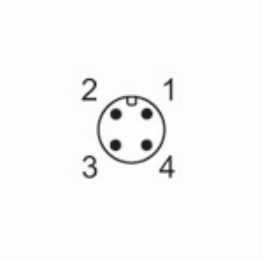
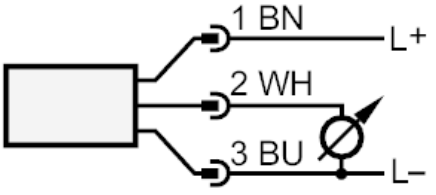
Electrical connection

Connector: 1 x M12; coding: A



Connection

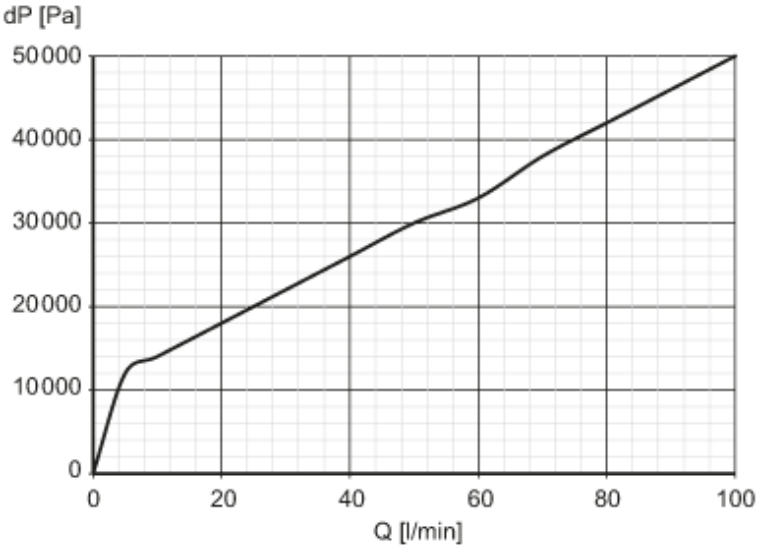


Colors to DIN EN 60947-5-2
Core colors :

BN =	brown
BU =	blue
WH =	white

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity