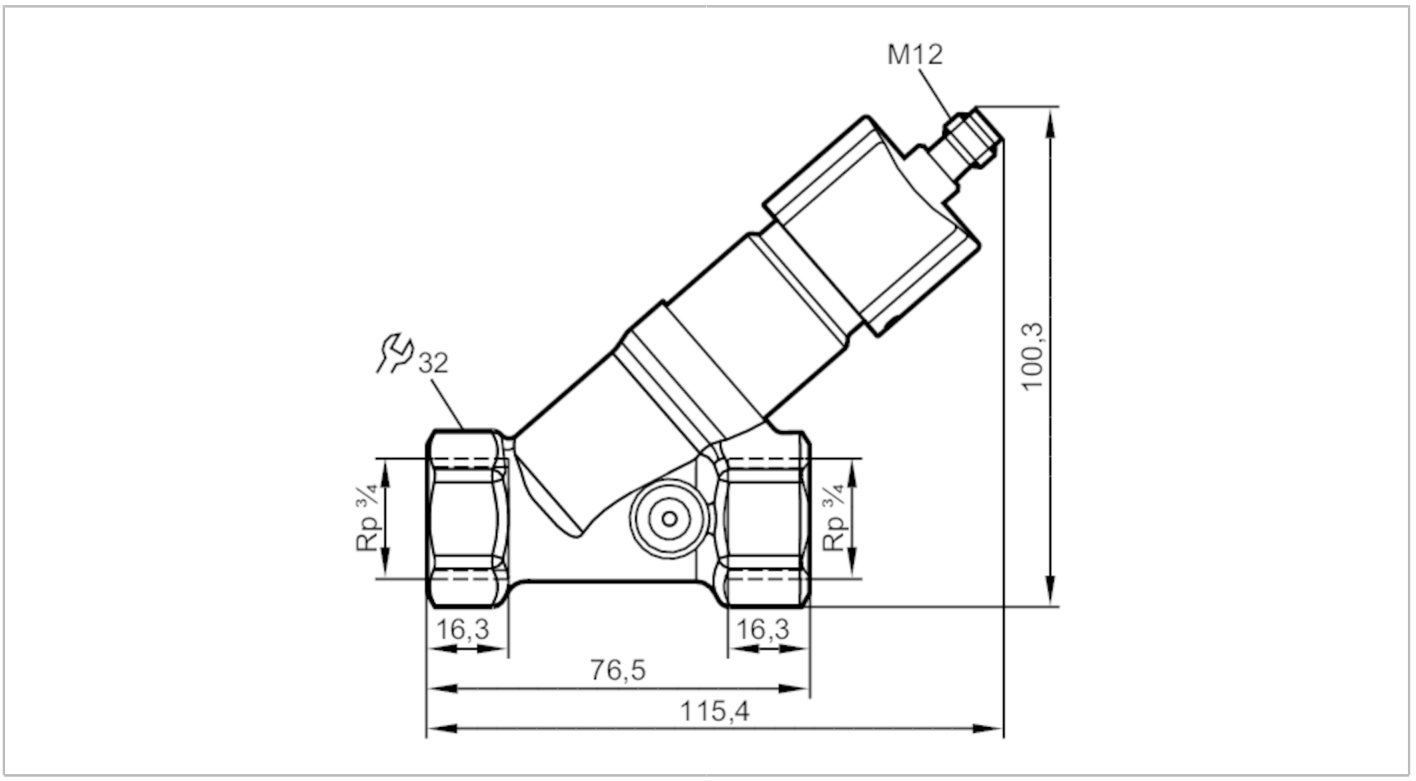
SBY433

Flow transmitter with integrated backflow prevention

SBY34HF010KG/US



Product characteristics		
Measuring range	[l/min]	1...25
Process connection		Rp 3/4
Application		
Media		Liquids; water; glycol solutions; oils; coolants
Medium temperature	[°C]	-10...100
Pressure rating	[bar]	40
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	[l/min]	1...25
Accuracy / deviations		
Repeatability		1

SBY433

Flow transmitter with integrated backflow prevention

SBY34HF010KG/US

[% of the final value]			
Measuring error [% of the final value]		± 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	[years]	778	
Mechanical data			
Weight	[g]	483	
Materials		brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminium anodised; PA	
Materials (wetted parts)		stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM	
Process connection		Rp 3/4	
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

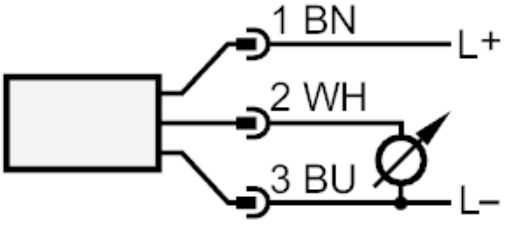
Connector: 1 x M12

SBY433

Flow transmitter with integrated backflow prevention

SBY34HF010KG/US

Connection



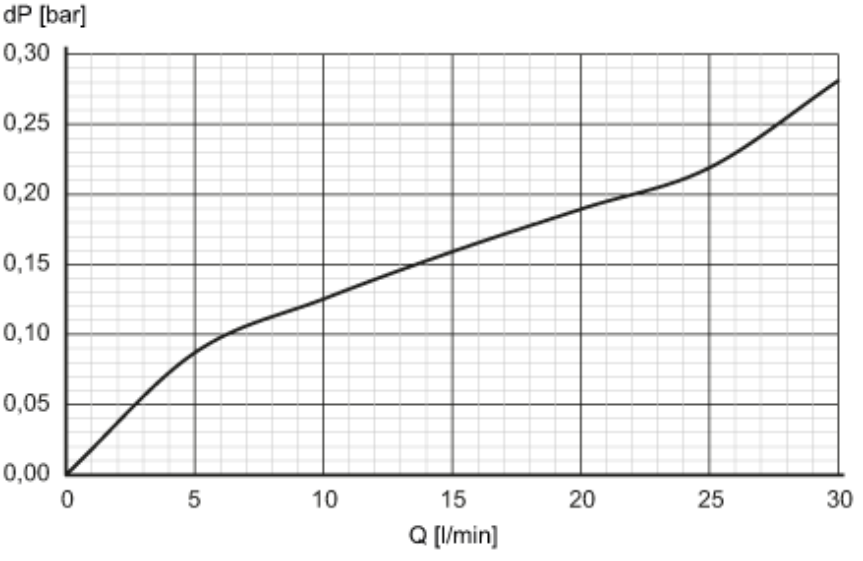
colours to DIN EN 60947-5-2

Core colours :

BN =	brown
BU =	blue
WH =	white

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity