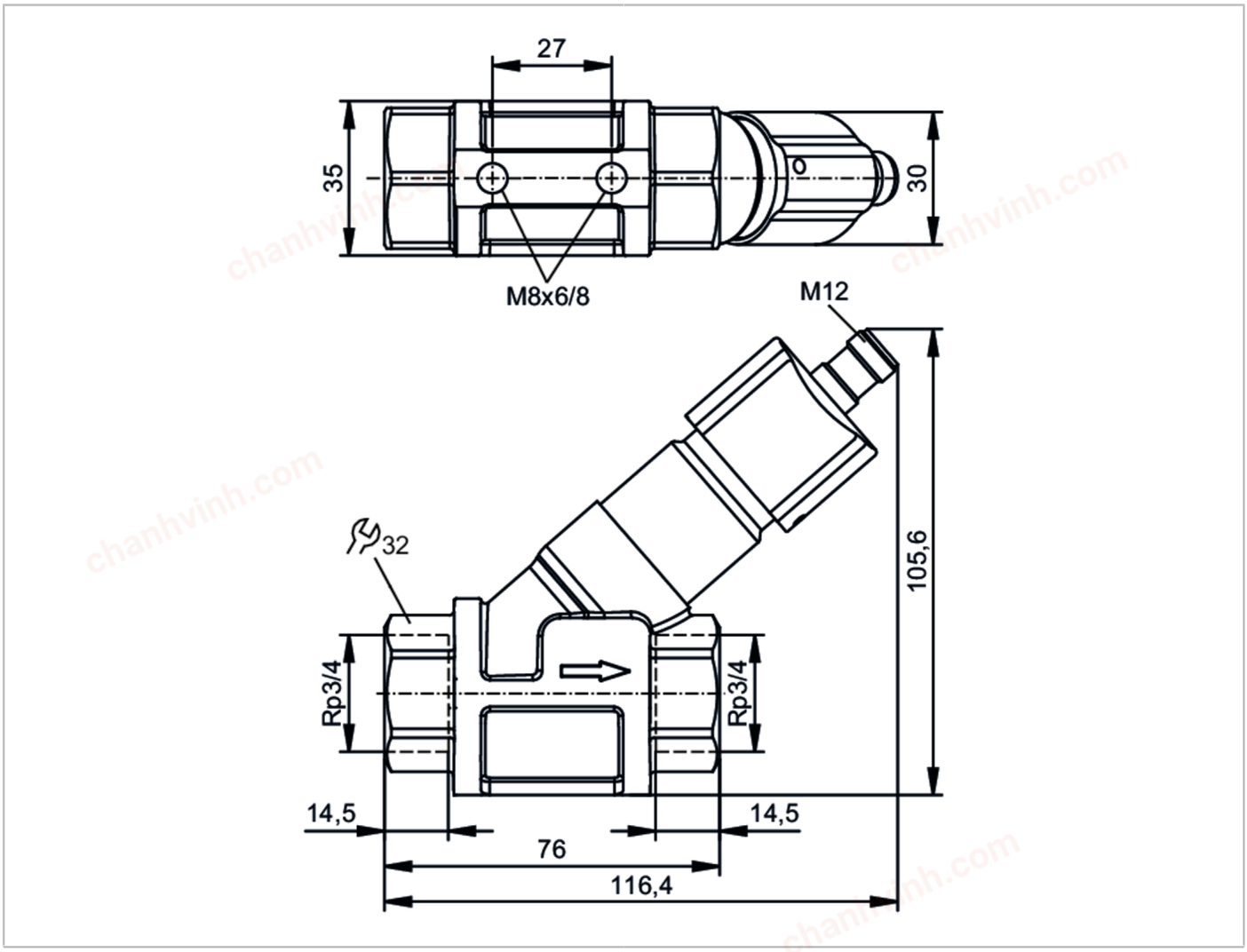
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SBY434

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	

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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	[% of the final value]	1
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]	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



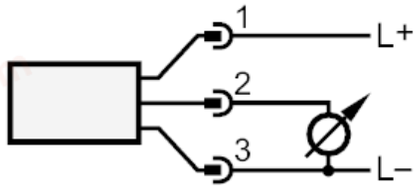
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Flow transmitter with integrated backflow prevention

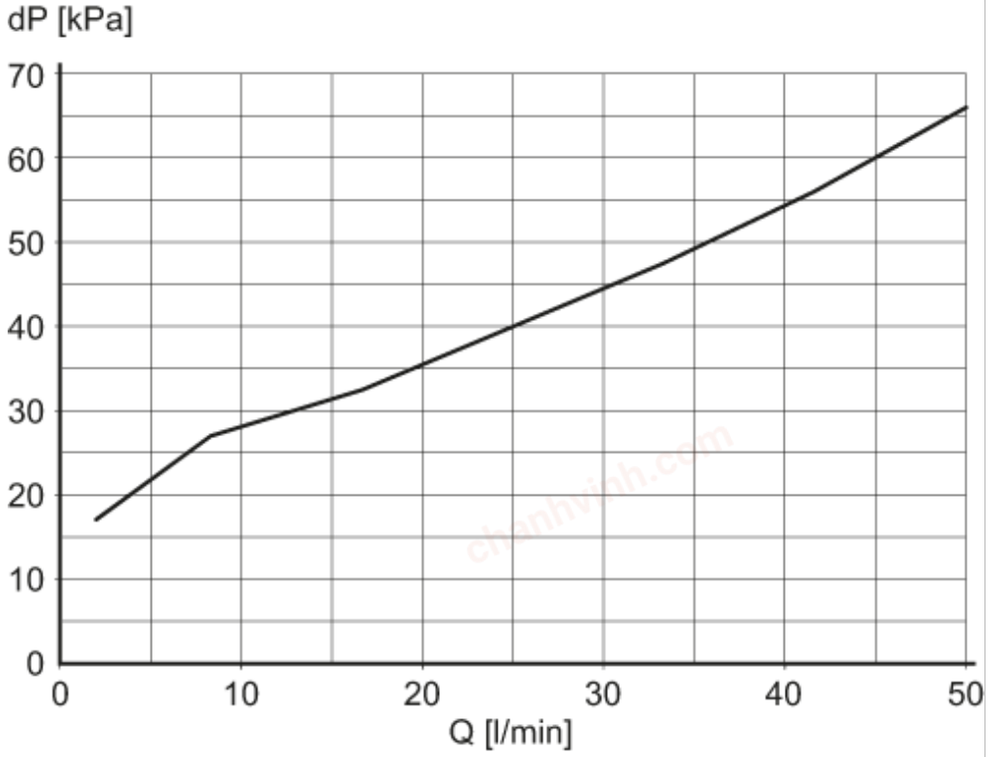
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Connection



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity