

Flow Switches

BFS-30-N / BFS-30-O

for liquids from 30 up to 600 cSt,
with or without optical display

Features

- Viscosity compensated from 30 up to 600 cSt
- Set point continuously adjustable
- Any mounting position, low hysteresis
- High accuracy and functional safety
- Optional with pointer-indicating instrument
- Ship approvals available for N-versions

Measuring ranges

- 0,5...1,5 l/min to 35...110 l/min

Applications

- Measuring and monitoring of liquids, e. g. in cooling or hydraulic systems, test beds, pumps etc.



Technical Data

BFS-30-N (without indication)				
Measuring principle:	variable aera flow meter			
Materials:	brass version		stainless steel version	
Flow meter:	brass		1.4571	
Spring:	1.4571		1.4571	
Fitting:	brass, nickel-plated		1.4571	
Housing:	brass, nickel-plated		1.4571	
Operating pressure:	brass	brass GL	VA	Press. drop
BFS-30-N, N E:	250 bar	100 bar	300 bar	0,02...0,4 bar
BFS-30-L:	300 bar	100 bar	350 bar	0,02...0,2 bar
Operating temperature:	120 °C (standard), 160 °C (option HT)			
Accuracy:	±10% f. s.			
Electrical connection:	plug acc. to DIN EN 175301-803 (former DIN 43650C)			
Contact rating:				
BFS-30-L	230 V / 3 A / 60 VA		(NO)	
	250 V / 1,5 A / 50 VA		(WE), SPDT	
BFS-30-N, N E	250 V / 3 A / 100 VA		(NO)	
	250 V / 1,5 A / 50 VA		(WE), SPDT	
Protection class:	IP65 (plug acc. to DIN EN 175301-803 - former DIN 43650C) IP67 (with moulded cable)			
Approvals:	DNV, BV			

BFS-30-O (with optical indication)			
Measuring principle:	variable aera flow meter		
Materials:	brass version		stainless steel version
Flow meter:	brass		1.4571
Spring:	1.4571		1.4571
Fitting:	brass, nickel-plated		1.4571
Housing:	brass, nickel-plated		1.4571
Display Housing:	Makrolon		Makrolon
Operationg pressure: BFS-30-O, O E:	brass 250 bar	VA 300 bar	Presssure drop 0,02...0,4 bar
Operation temperature:	120 °C (standard), 160 °C (option HT)		
Accuracy:	±10% f. s.		
Electrical connection:	plug acc. to DIN EN 175301-803 (former DIN 43650C)		
Contact rating: BFS-30-O, O E	250 V / 3 A / 100 VA (NO) 250 V / 1,5 A / 50 VA (WE), SPDT		
Protection class:	IP65 (plug acc. to DIN EN 175301-803 former DIN 43650C) IP67 (with moulded cable)		
Approvals:	---		

Switch ranges (water in l/min)

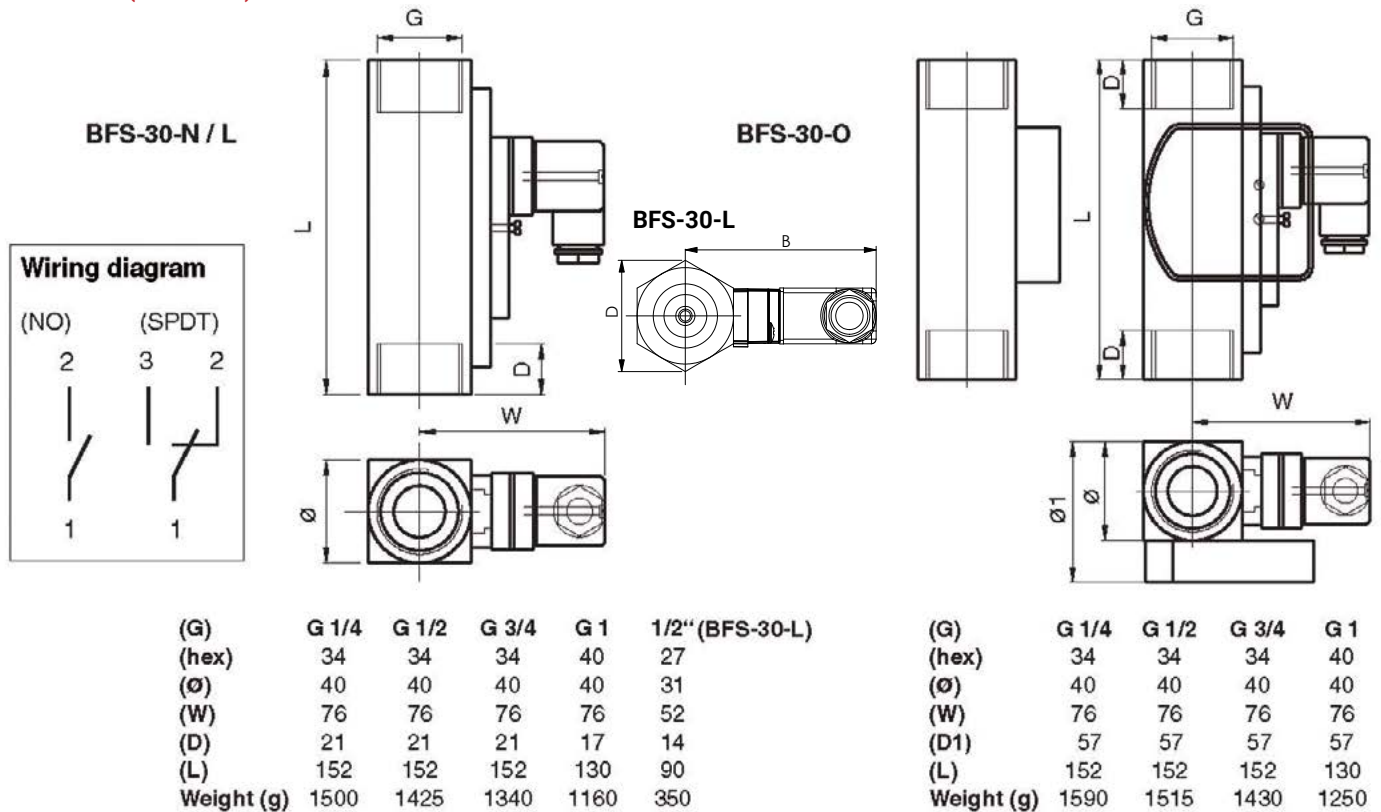
BFS-30-L G1/2	BFS-30-N G1	BFS-30-N E G1
0,5...1,6	0,5...1,5	1,0...20
0,8...3,0	1,0...4,0	4,0...40
2,0...7,0	2,0...8,0	5,0...50
	3,0...10	8,0...60
	5,0...15	12...70
	8,0...24	15...80
	10...30	
	15...45	
	20...60	
	30...90	
	35...110	

BFS-30-O G1	BFS-30-O E G1
0,5...1,5	1,0...20
1,0...4,0	4,0...40
2,0...8,0	5,0...50
3,0...10	8,0...60
5,0...15	12...70
8,0...24	15...80
10...30	
15...45	
20...60	
30...90	
35...110	

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Dimensions (mm / inch)



Order Code

Brass	Description	Stainless Steel	Description
0713-266.X	BFS-30-L-G1/2-MS-NO-ST	0713-269.X	BFS-30-L-G1/2-SS-NO-ST
0713-267.X	BFS-30-N-G1-MS-NO-ST	0713-270.X	BFS-30-N-G1-SS-NO-ST
0713-268.X	BFS-30-NE-G1-MS-NO-ST	0713-271.X	BFS-30-NE-G1-SS-NO-ST
0713-272.X	BFS-30-O-G1-MS-NO-ST	0713-274.X	BFS-30-O-G1-SS-NO-ST
0713-273.X	BFS-30-OE-G1-MS-NO-ST	0713-275.X	BFS-30-OE-G1-SS-NO-ST
0713-348.X	BFS-30-L-G1/2-MS-WE-ST	0713-351.X	BFS-30-L-G1/2-SS-WE-ST
0713-349.X	BFS-30-N-G1-MS-WE-ST	0713-352.X	BFS-30-N-G1-SS-WE-ST
0713-350.X	BFS-30-NE-G1-MS-WE-ST	0713-353.X	BFS-30-NE-G1-SS-WE-ST
0713-354.X	BFS-30-O-G1-MS-WE-ST	0713-356.X	BFS-30-O-G1-SS-WE-ST
0713-355.X	BFS-30-OE-G1-MS-WE-ST	0713-357.X	BFS-30-OE-G1-SS-WE-ST

Adapter			
Brass	Process connection	Stainless Steel	Process connection
0799-026	1" ... 1/4"	0799-029	1" ... 1/4"
0799-027	1" ... 1/2"	0799-030	1" ... 1/2"
0799-028	1" ... 3/4"	0799-031	1" ... 3/4"

Order number example: Order number + switching range = 0713-266.X, 0,8...3,0 l/min.

Note: ATEX versions not available

Description

NO = normally open	NE = without indication, enlarged meas. range	MS = brass	Please specify switching range (see table on page previous) additional to order number.
WE/SPDT = change-over	OE = with indication, enlarged meas. range	SS = stainless steel	
	L = without indication, low cost		
	O = with indication		
	N = without indication		