

# Flow Switches

# BFS-20-O / BFS-20-OL

for liquids from 30 up to 600 cSt with optical display

## Features

viscosity compensated from 30 to 600 cSt, set point continuously adjustable, rugged, low hysteresis, any mounting position, high accuracy and functional safety, with 1/2" connection also available as low cost version

## Measuring ranges

0,1 ... 0,8 l/min to 30 ... 90 l/min for liquids up from 30 to 600 cSt.

## Applications

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



## Technical Data

BFS-20-O			
Measuring principle:	variable aera flow meter		
<b>Materials:</b>	brass version	stainless steel vers.	
Flow meter:	brass	1.4571	
Spring:	1.4571	1.4571	
Fitting:	brass, nickel-plated	1.4571	
Display Housing:	alumin, anodized	alumin, anodized	
Glass:	Duran 50	Duran 50	
Magnets:	ferrite	ferrite	
<b>Operating pressure:</b>	brass	VA	Pressure drop
BFS-20-O:	PN 10 bar	10 bar	0,02...0,4 bar
Operating temp.:	120 °C (standard), 160 °C (option HT)		
Accuracy:	±10% f. s.		
Electrical connection:	plug acc. to DIN EN 175301-803-C (Ex DIN 43650C)		
<b>Contact rating:</b>			
BFS-20-O G1	250 V / 3 A / 100 VA 250 V / 1,5 A / 50 VA	(NO) (SPDT)	
Protection class:	IP65 (plug acc. to DIN EN 175301-803-C - Ex DIN 43650C) IP67 (with moulded cable)		
Approvals:	e.g. ATEX, see <a href="http://www.barksdale.de">www.barksdale.de</a>		

## Technical Data

BFS-20-OL			
Measuring principle:	variable aera flow meter		
<b>Materials:</b>	brass version	stainless steel vers.	
Flow meter:	brass, nickel-plated	1.4571	
Spring:	1.4571	1.4571	
Fitting:	brass, nickel-plated	1.4571	
Display Housing:	alumin, anodized	alumin, anodized	
Glass:	Duran 50	Duran 50	
Magnets:	ferrite	ferrite	
<b>Operating pressure:</b>	brass	VA	Pressure drop
BFS-20-OL:	PN 16 bar	16 bar	0,2...0,4 bar
Operating temp.:	120 °C (standard), 160 °C (option HT)		
Accuracy:	±10% f. s.		
Electrical connection:	plug acc. to DIN EN 175301-803-C (Ex DIN 43650C)		
<b>Contact rating:</b>			
BFS-20-OL G1	250 V / 3 A / 100 VA 250 V / 1,5 A / 50 VA	(NO) (SPDT)	
Protection class:	IP65 (plug acc. to DIN EN 175301-803-C - Ex DIN 43650C) IP67 (with moulded cable)		
Approvals:	e.g. ATEX, see <a href="http://www.barksdale.de">www.barksdale.de</a>		

## Switch ranges

in l/min

BFS-20-O G1/4:	BFS-20-O G1/2:	BFS-20-O G3/4:	BFS-20-O G1:
			0,5...1,5
			1,0...4,0
			2,0...8
			3,0...10
			5,0...15
			8,0...24
			10...30
			15...45
			20...60
			30...90

## Switch ranges

in l/min

BFS-20-OL G1/2:
0,5...1,7
1,3...4,0
2,5...8,0

## Flow Switches

## BFS-20-O / BFS-20-OL

### Dimensions (mm / inch)

**Dimensions (in mm)**

**BFS-20-O**

**BFS-20-OL**

**Wiring diagram**

(NO)	(SPDT)
2	3 2
1	1

(G)	G 1/4	G 1/2	G 3/4	G 1	(G)	G 1/2
(hex)	41	41	41	41	(hex)	27
(Ø)	50	50	50	50	(Ø)	32
(W)	77	77	77	77	(W)	53
(D)	17	17	17	17	(D)	14
(L)	145	145	139	158	(L)	114
Weight (g)	850	850	850	850	Weight (g)	300

### Order Code

BFS-20-O	BFS-20-OL
Brass	Brass
0712-263 BFS-20-O-G1-MS-NO-ST	0712-262 BFS-20-OL-G1/2-MS-NO-ST
0712-345 BFS-20-O-G1-MS-WE-ST	0712-344 BFS-20-OL-G1/2-MS-WE-ST
Stainless Steel	Stainless Steel
0712-265 BFS-20-O-G1-SS-NO-ST	0712-264 BFS-20-OL-G1/2-SS-NO-ST
0712-347 BFS-20-O-G1-SS-WE-ST	0712-346 BFS-20-OL-G1/2-SS-WE-ST

The version BFS-20-O is also available with process connections, please see table on side before. To place an order please add the process connection to the order number.

Order number example: Order number + switching range = 0712-263, 3...10 l/min

### Description

NO = normally open	O = with indication	MS = brass	Please specify switching range (see table on page previous) additional to order number.
WE = change-over	N = without indication	SS = stainless steel	