## **Specifications**

Medium Type Flow Range Pipe Diameter Output

Contact Ratings

Set-point Tolerance Repeatability

Process Temperature CIP Temperature Process Pressure Pressure Drop Ambient Temperature

**Process Connection** Protection Head Wetted Parts

low-contaminated liquids

15...130 l/min 1"...3"

reed NO/NC contact max. 2A/230VAC/50W

 $\pm\ 25\%$  $\pm\,5\%$ -30...140 °C max. 150 °C

up to 25 bar max. 0.2 bar -40...85 °C

□ G1", □ 1" NPT aluminum; □ IP65, □ IP68 ATEX Ex 'd'

304 stainless steel (1.4301)

# **Warranty and Support**

serial number manufacturing date

QC check mark .....(passed) (stamp)

**BASI Instrument AB** Torget 2 SE-270 33 VOLLSJÖ, SWEDEN tel: +46 (0)40 88009 fax: +46 (0)40 929877

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QD-8.2.4-WC

BASI Instrument AB warrants this product to be free from defects in materials and workmanship for 6 months. If your unit is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear or tear, or consequential or incidental loss. This warranty does not cover any defects caused by wrong transportation, storage, installation, or operating (see 'Specifications').

### Technical support

In the unlikely event that you encounter a problem with your BASI device, please call your local dealer or contact directly our support team.

v1-06.09

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## **PADDLE FLOW SWITCH**

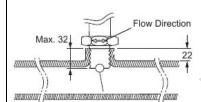
# BFS50

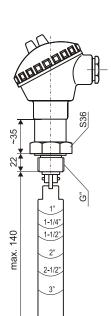
**OPERATION MANUAL** 



Please read this Operation Manual before mounting and operating! Save the Manual for future references!

# **Mounting and Wiring**





### Mounting

- ♦ It is recommended to install the unit on horizontal pipes only! It is not recommended to the 1" NPT plastic pipe!
- Before installing the unit to a tee pipe, be sure to apply tape seal to the screw.
- After installation, the paddle must be parallel to the cutting face of the pipe and the flow direction mark on the screw hexagon must be parallel to the pipe and the ground.

- The change-over contact leads are marked on the wiring base.
- Electrical entry requires sealing from moisture.

# Important notes:

- Use a proper sealant (we recommend Teflon® tape) and always check for leaks prior to system start-up!
- The pressure and temperature ranges as shown in the specs, must not be exceeded and also take the abrupt pressure and temperature into considerations.
- The flow switch is designed for shock and vibration resistance. However, shock and vibration should be as minimized as possible.
- Excessive contamination in fluid might inhibit paddle operation, occasional cleaning would be necessary.

# Adjusting

Pipe diameter	meter	-		-	1%"	::::::::::::::::::::::::::::::::::::::	1.7%		5	7	2%.		'n
Set-point [/min]	t [/min]	ŏ	OFF	No.	OFF	N <sub>O</sub>	OFF	NO.	OFF		ON OFF	33.70	ON OFF
		20	18	g	25	4	35	98	86			30	
	1%.			52	18	39	22	28	47	68	78		
Paddle	1%:		•			54	38	88	82	124	28		
length	2							20	47	83	99	£.	128
	2%.						-10			28	99	Ξ	105
	3									8	20		88

- ♦ Cut-off the paddle at proper size mark (or wherever desired) but not less than 1" left.
- Adjust the flow set-point range using the information from the table on the left.



# Important note:

Process temperature changes do affect set-point, especially when specific gravity also changes!