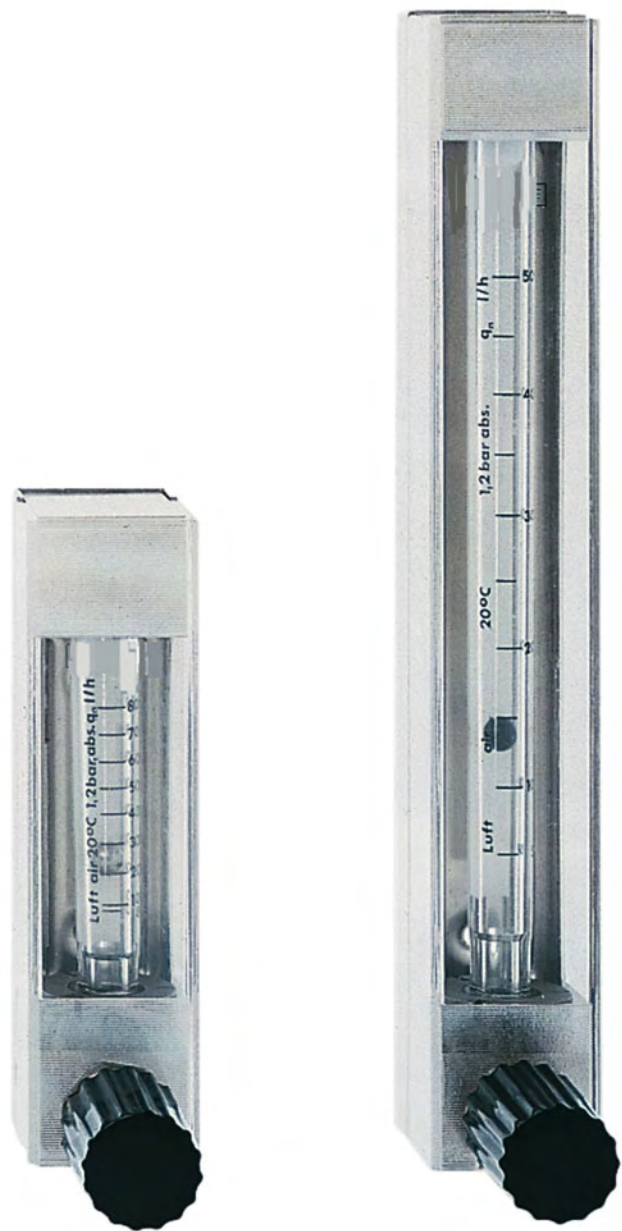


# DS10

## Variable Area Flowmeter For Low Flows With Glass Measuring Tube

- for liquids and gases
- body brass or st. steel
- with integrated needle valve
- limit switch optionally
- accuracy class 2.5 or 4.0



### Description:

The flowmeters DS10 operate according to the proven variable area principle. The flowing media moves a float upwards against gravity in a conical measuring tube. The height of the float indicates the flow rate and may be read off a burnt-in scale on the measuring tube. Optional inductiv contacts, which are mounted on the measuring tube, may be used for flow rate limit detection. All meters are equipped with an integrated needle valve for exactly regulating the flow rate.


### Applications:


Variable area flowmeters model DS10 are mainly used for measuring and monitoring the flow rate of low- viscous liquid and gaseous media. Scales for water or air at standard operating conditions have already been defined. For other media or different process conditions special scales are available.

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## Versions:

**DS10.1:** Miniature version, height 111 mm  
accuracy class 4

**DS10.2:** Standard version, height 146 mm  
accuracy class 2,5

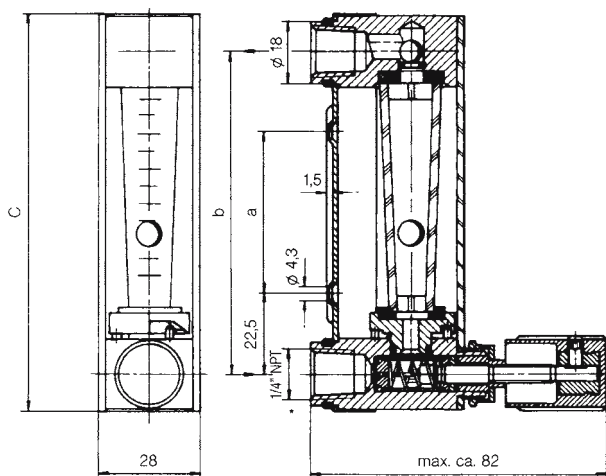
## Ranges:

Range no.	Range NI/h air, 20°C, 1.2 bar abs.	Contact- version	DS10.1 Miniature	DS10.2 Standard
01	0,5...5	A	x	x
02	0,8...8	A	x	x
03	1,6...16	A	x	x
04	4...40	A	x	x
05	6...60	A	x	x
06	10...100	B	x	x
07	25...250	B	x	x
08	50...500	B	x	x
09	80...800	B	x	x
10	100...1000	B	-	x
11	180...1800	B	-	x
12	240...2400	B	-	x
13	300...3000	B (min.)	-	x
14A	400...4000	B (min.)	-	x
15A	500...5000	B (min.)	-	x
	<b>l/h water</b>			
16	0,25...2,5	A	x	x
17	0,5...5	B	x	x
18	1,2...12	B	x	x
19	2,5...25	B	x	x
20	4...40	B	x	x
21	6...60	B	x	x
22	10...100	B (min.)	x	x
23	12...120	B (min.)	x	x
24	16...160	B (min.)	x	x

x = available - = unavailable

**Contacts:** The contact version is defined by the measuring range.  
(min.) = Contact only available for minimum monitoring

## Dimensions:



Version	a (mm)	b (mm)	c (mm)
DS10.1	45	90	111
DS10.2	80	125	146

## Ordering code:

**Order no:** DS10. 2. 2. 1. 1. 06. 1. 1. 0

**Variable area flowmeter  
with glass measuring tube**

### Version

1 = Miniature  
2 = Standard

### Process connection

1 = G 1/4 female on back  
2 = 1/4" NPT on back

### Material

1 = brass  
2 = st. steel

### O-rings

1 = Viton (standard)  
2 = PTFE / FFKM

### Ranges

01...24 = according to table  
99 = special range

### Valve

0 = without  
1 = valve on inlet side (Standard)  
2 = valve on outlet side

### Limit switch

0 = without  
1 = 1 contact (version A)  
2 = 2 contacts (version A)  
3 = 1 contact (version B)  
4 = 2 contacts (version B)

### Options (multiple selection possible)

0 = without  
1 = panel mounting set  
2 = cable connector housing  
for meters with contact

Special process connections (hose connectors, SWAGELOK, ERMETO or others) on request.

For operation of the limit switches transmitter relays model KFA...SR2-Ex1.W for 1 contact or KFA...SR2-Ex2.W for 2 contacts are available. Technical specifications and prices on request.

## Technical Specifications:

**max. pressure:** 10 bar

**max. temperatur:** 100 °C (80 °C with contact)

**materials:** Armature and valve brass or st. steel,  
float st. steel, O-rings Viton or PTFE /  
FFKM, glass Borosilikate

**Accuracy class:** DS10.1: Klasse 4  
DS10.2: Klasse 2,5

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