

Flow Measurement SITRANS F VA

SITRANS FVA250 variable area meter

Selection and ordering data	Article No.	Order code
SITRANS FVA250 Full metal variable area meter	7 ME 5 8 6	- - - - -
Flow tube		
<u>Liquid</u>	<u>Gas</u>	
5 ... 40 l/h	0.15 ... 1.3 m ³ /h	1
50 ... 600 l/h	1.5 ... 17 m ³ /h	2
1 000 ... 4 000 l/h	30 ... 110 m ³ /h	3
2.5 ... 4 m ³ /h	70 ... 170 m ³ /h	4
4 ... 25 m ³ /h	30 ... 700 m ³ /h	5
16 ... 50 m ³ /h	460 ... 1 350 m ³ /h	6
63 ... 100 m ³ /h	1 700 ... 3 000 m ³ /h	7
Design		
<u>Type: CF-S (standard)</u>		2
Fitting: Stainless steel 1.4404/316L, Flange: Stainless steel 1.4404/316L Float: Stainless steel 1.4404/316L		
<u>Type: FF-H</u>		4
Fitting: Stainless steel 1.4404/316L, Flange: Stainless steel 1.4404/316L with Hastelloy lining Float: Hastelloy		
<u>Type: FF-P</u>		5
Fitting: Stainless steel 1.4404/316L, Flange: Stainless steel 1.4404/316L with PTFE lining Float: PTFE		
Nominal diameter		
DN 15/ANSI ½"		A
DN 20/ANSI ¾"		B
DN 25/ANSI 1"		C
DN 32/ANSI 1¼"		D
DN 40/ANSI 1½"		E
DN 50/ANSI 2"		F
DN 65/ANSI 2½"		G
DN 80/ANSI 3"		H
DN 100/ANSI 4"		J
Female thread ¼"		Q
Female thread 3/8"		R
Female thread ½"		S
Female thread ¾"		T
Female thread 1"		U
Female thread 1¼"		V
Female thread 1½"		W
Female thread 2"		X
Flange/thread standard - pressure rate		
EN 1092-1, PN 16, Form B1		B
EN 1092-1, PN 40, Form B1		D
EN 1092-1, PN 63, Form B2		E
EN 1092-1, PN 100, Form B2		F
ANSI B16.5, class 150 RF		J
ANSI B16.5, class 300 RF		K
ANSI B16.5, class 600 RF		L
Female thread G DIN ISO 228		T
Female thread NPT ANSI B1.20.1		N

3

Flow Measurement

SITRANS F VA

SITRANS FVA250 variable area meter

Selection and ordering data

Article No. Order code

SITRANS FVA250 Full metal variable area meter

7 ME 5 8 6 - - - - -

Measuring ranges

Liquids		Gases		Order code
l/h	(USgpm)	m ³ /h	(scfm)	
0.5 ... 5	(0.0022 ... 0.022)	0.015 ... 0.15	(0.0088 ... 0.088)	1 0
0 ... 10	(0.0044 ... 0.044)	0.03 ... 0.3	(0.0177 ... 0.177)	1 1
1.6 ... 16	(0.007 ... 0.07)	0.045 ... 0.45	(0.0265 ... 0.283)	1 2
2.5 ... 25	(0.011 ... 0.11)	0.075 ... 0.75	(0.0441 ... 0.441)	1 3
4 ... 40	(0.018 ... 0.18)	0.13 ... 1.3	(0.0765 ... 0.765)	1 4
5 ... 50	(0.022 ... 0.22)	0.15 ... 1.5	(0.0883 ... 0.883)	1 5
7 ... 70	(0.031 ... 0.31)	0.2 ... 2	(0.12 ... 1.24)	1 6
10 ... 100	(0.044 ... 0.44)	0.3 ... 3	(0.177 ... 1.77)	1 7
16 ... 160	(0.07 ... 0.7)	0.5 ... 5	(0.29 ... 2.71)	2 0
25 ... 250	(0.11 ... 1.1)	0.7 ... 7	(0.412 ... 4.12)	2 1
40 ... 400	(0.176 ... 1.76)	1.0 ... 11	(0.589 ... 6.47)	2 2
60 ... 600	(0.264 ... 2.64)	1.7 ... 17	(1 ... 10)	2 3
100 ... 1 000	(0.44 ... 4.4)	2 ... 30	(1.77 ... 17.66)	2 4
160 ... 1 600	(0.7 ... 7)	3 ... 46	(2.35 ... 27.07)	2 5
250 ... 2 500	(1.1 ... 11)	6 ... 70	(4.12 ... 41.2)	2 6
400 ... 4 000	(1.76 ... 17.6)	10 ... 110	(6.47 ... 64.74)	2 7
600 ... 6 000	(2.64 ... 26.4)	16 ... 170	(10 ... 100)	3 0
1 000 ... 10 000	(4.4 ... 44)	28 ... 290	(17.1 ... 170.7)	3 1
1 600 ... 16 000	(7 ... 70)	45 ... 460	(27.1 ... 270.7)	3 2
2 000 ... 20 000	(8.8 ... 88)	55 ... 550	(32.4 ... 323.7)	3 3
2 500 ... 25 000	(11 ... 110)	69 ... 700	(41.2 ... 412)	3 4
4 000 ... 40 000	(17.6 ... 176)	109 ... 1 100	(64.7 ... 647.4)	3 5
5 000 ... 50 000	(22 ... 220)	134 ... 1 350	(79.5 ... 794.6)	3 6
6 000 ... 60 000	(26.4 ... 264)	169 ... 1 700	(100 ... 1 000)	3 7
8 000 ... 80 000	(35.2 ... 352)	239 ... 2 400	(141.3 ... 1 413)	4 0
10 000 ... 100 000	(44 ... 440)	299 ... 3 000	(176.6 ... 1 766)	4 1

Display unit / process temperature

Standard (aluminum) - up to 200 °C with local display/150 °C with electrical output
 Standard (aluminum) - with displaced display
 Stainless steel IP66 - up to 150 °C with local display
 Stainless steel IP66 - with displaced display

0
1
2
3

Heating/cooling sheath

Without (standard)
 With flange connection EN1092-1 DN 15 PN 40
 With flange connection ½ " ANSI B16.5 Class 150 RF

A
B
C

Display/outputs

With display
 With display, 1 inductive contact (limit switch) SJ 3.5N
 With display, 2 inductive contacts (limit switches) SJ 3.5N
 With display, HART and 4 to 20 mA
 With display, HART, 4 to 20 mA, 2 inductive contacts SJ 3.5N
 With display, HART, 4 to 20 mA, 1 inductive contact, 1 pulse output
 With display, PROFIBUS PA

A
B
C
D
E
F
G

Calibration

Standard calibration
 • Without calibration certificate
 • With calibration certificate

0
1

Selection and ordering data Order code*Other types of liquid and gas measurement*

Please add "-Z" to Article No. and specify Order code.

Marking of name plate

Name plate in English

B11

Certificates

Certificate of compliance EN 10204-2.1

C10

Factory inspection certificate EN 10204-2.2

C11

Acceptance test certificate 3.1 according to EN 10204

C12

Dye penetration test on pressure bearing weldings

C13

X-ray test of pressure bearing weldings

C14

Pressure test with acceptance test certificate 3.1 according to EN 10204

C15

PMI (positive material identification) test of pressure bearing metal parts

C16

Float damping

With float damping

D01

Specification of medium process data (specify in plain text)**Specification always required for each order:**

Medium

Operating pressure

Operating temperature

Density (when the medium unknown)

Viscosity (when medium unknown)

Measuring range

Y01

TAG plate

TAG plate in stainless steel (add plain text)

Y17

Cleaning to company standard

Cleaning Class 2, with identification free of oil and grease

K46

Cleaning Class 1, with identification free of oil, grease and silicon

K48

Approvals

With ATEX approval

M51

Special version (specify in plain text)

Y99

Note:

For possible combinations of nominal diameters and flow tube, see table on page 3/404