DS20

Float-Type Flow Meter For low flow volumes Compact construction

- For liquids and gases
- Maximum process pressure: 160 bar, Maximum operating temperature: 200°C
- Scales for all operating conditions designed as required
- Local display, min./max. contacts or analog output
- Measuring tube completely of stainless steel 1.4571
- Optionally available with valve



Description

Model series DS20 flow meters work according to the suspended-float principle of measurement. The device has a cone-shaped float that moves within a cylindrical measuring tube. The flowing gas or liquid moves the float in the direction of flow. The movement of the float is transmitted magnetically to a dial indicator mounted outside the measuring tube. The indicator is fitted with a scale appropriate for the operating range encountered. If necessary, the indicator can also be fitted with contacts or an analog output.

Applications

Model series DS20 flow meters are intended to measure and monitor gases or low-viscosity liquids, such as those found in applications like cooling systems for welding machines, laser and tube systems, pump monitoring, compressors, etc. Since all parts coming in contact with the medium being monitored are made of high-quality stainless steel 1.4571, this device is also suitable for use with caustic/corrosive media.



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Versions

- Flow meter with local dial indicator display
- Dial indicator display, 1 MIN contact
- Dial indicator display, 1 MAX contact
- Dial indicator display, 1 MIN contact, 1 MAX contact
- Dial indicator display, analog output: 4 to 20 mA

Process connections

Version without needle valve (connection at top/bottom):

All threaded connections as per model coding, PN 100 (standard) or PN 160, all flange connections

Version with needle valve (connection at back):

All threaded connections as per model coding, PN 40 (standard) or PN 100, flange connections not possible

Measuring Ranges and Process Connection

Measuring Range Number	Water, 20°C	Air, 0°C, 1.013 bar abs.	Pressure loss	
J	(l/h)	(NI/h)	(mbar)	
1	0.11	440	6	
2	0.161.6	660	6	
3	0.252.5	10100	6	
4	0.44	15150	6	
5	0.66	20200	6	
6	110	32.5325	8	
7	1.616	50500	8	
8	2.525	80800	8	
9	440	1401400	11	
10	660	2002000	11	
11	10100	3253250	11	
12	16160	5005000	13	
13	25250	8008000	13	
Caution: On versions without valve, measuring ranges 12 and 13 come with 3/8" threaded connections (Code 42)				

Dimensions



Technical Details

Materials:

Parts coming in contact with media are made of stainless steel 1.4571, Housing made of stainless steel 1.4301

Maximum pressure:

20 mA (???)

PN 100 (standard), PN 10, 40, 160 as per model coding

Maximum temperature:

Local display:	-80°C to + 200°C (+150°C with valve)
With contacts:	-40°C to +150°C
With analog output:	-40°C to +150°C
Protection type:	IP 65

Accuracy: ± 4% of measured range value

Model coding

Float-type flow meter Process connection: 41G4 = G 1/4 female thread, PN40 41G6 = G 1/4 female thread, PN100 41G7 = G 1/4 female thread, PN400 41T4 = 1/4" NPT female thread, PN400 41T6 = 1/4" NPT female thread, PN100 41T7 = 1/4" NPT female thread, PN100 53C4 = Tube fitting, 6 mm, PN400 $53C4 = Tube fitting, 6 mm, PN1000 53C7 = Tube fitting, 6 mm, PN100054C4 = Tube fitting, 8 mm, PN10000 54C7 = Tube fitting, 8 mm, PN1000000000000000000000000000000000000$	Order number:	DS20.	41G4.	6.	0.	1.	0
Process connection:41G4 = G 1/4 female thread, PN4041G6 = G 1/4 female thread, PN10041G7 = G 1/4 female thread, PN16041T4 = 1/4" NPT female thread, PN4041T6 = 1/4" NPT female thread, PN10041T7 = 1/4" NPT female thread, PN10053C4 = Tube fitting, 6 mm, PN4053C5 = Tube fitting, 6 mm, PN10053C7 = Tube fitting, 6 mm, PN10053C7 = Tube fitting, 8 mm, PN10053C7 = Tube fitting, 8 mm, PN10054C4 = Tube fitting, 8 mm, PN10054C4 = Tube fitting, 10 mm, PN10054C5 = Tube fitting, 10 mm, PN10055C6 = Tube fitting, 10 mm, PN10055C7 = Tube fitting, 10 mm, PN10055C7 = Tube fitting, 12 mm, PN10056C6 = Tube fitting, 12 mm, PN10056C6 = Tube fitting, 12 mm, PN10056C7 = Tube fitting, 12 mm, PN10056C8 = Tube fitting, 12 mm, PN10056C9 = Flanges, ANSI 1/2", 150 lbs RF02A1 = Flanges, ANSI 1/2", 300 lbs RF02A2 = Flanges, ANSI 1/2", 300 lbs RF02A2 = Flanges, ANSI 1/2", 300 lbs RF	Float-type flow meter						
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41G7 = G 1/4 female thread, PN160 $41T4 = 1/4$ " NPT female thread, PN40 $41T6 = 1/4$ " NPT female thread, PN100 $41T7 = 1/4$ " NPT female thread, PN160 $53C4 =$ Tube fitting, 6 mm, PN100 $53C7 =$ Tube fitting, 6 mm, PN100 $53C7 =$ Tube fitting, 8 mm, PN100 $54C4 =$ Tube fitting, 8 mm, PN100 $54C7 =$ Tube fitting, 10 mm, PN100 $55C6 =$ Tube fitting, 10 mm, PN100 $55C7 =$ Tube fitting, 10 mm, PN100 $55C6 =$ Tube fitting, 10 mm, PN100 $55C6 =$ Tube fitting, 12 mm, PN100 $56C6 =$ Tube fitting, 12 mm, PN100 $56C6 =$ Tube fitting, 12 mm, PN100 $56C7 =$ Tube fitting, 12 mm, PN100 $56C6 =$ Tube fitting, 12 mm, PN100 $56C7 =$ Tube fitting, 12 mm, PN100 $56C7 =$ Tube fitting, 12 mm, PN100 $56C7 =$ Tube fitting, 12 mm, PN100 $56C6 =$ Tube fitting, 12 mm, PN100 $56C7 =$ Tube fitting, 12 mm, PN160 $01D4 =$ Flanges, DN15, PN40 $02D4 =$ Flanges, ANSI 1/2", 150 Ibs RF $02A1 =$ Flanges, ANSI 1/2", 300 Ibs RF $02A2 =$ Flanges, ANSI 1/2", 300 Ibs RF $02A2 =$ Flanges, ANSI 1/2", 300 Ibs RF	41G6 = G 1/4 female thread, F	N100					
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4116 = 1/4" NP1 female thread, PN100 4177 = 1/4" NPT female thread, PN160 53C4 = Tube fitting, 6 mm, PN40 53C7 = Tube fitting, 6 mm, PN100 53C7 = Tube fitting, 6 mm, PN100 53C7 = Tube fitting, 8 mm, PN100 54C4 = Tube fitting, 8 mm, PN100 54C4 = Tube fitting, 8 mm, PN100 54C4 = Tube fitting, 8 mm, PN100 54C7 = Tube fitting, 10 mm, PN100 55C4 = Tube fitting, 10 mm, PN100 55C5 = Tube fitting, 10 mm, PN100 55C6 = Tube fitting, 10 mm, PN100 56C6 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN160 01D4 = Flanges, DN15, PN40 02D4 = Flanges, ANSI 1/2", 150 lbs RF 02A1 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1/2", 300 lbs RF 02A2	41T4 = 1/4" NPT female thread	d, PN40					
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3357 - Hube fitting, 8 mm, PN100 53P1 = Hose nipple, 6 mm, PN100 54C4 = Tube fitting, 8 mm, PN100 54C7 = Tube fitting, 8 mm, PN100 54C7 = Tube fitting, 8 mm, PN100 54C7 = Tube fitting, 10 mm, PN100 55C4 = Tube fitting, 10 mm, PN100 55C6 = Tube fitting, 10 mm, PN100 55C7 = Tube fitting, 12 mm, PN100 56C6 = Tube fitting, 12 mm, PN100 56C6 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN160 01D4 = Flanges, DN15, PN40 01D4 = Flanges, ANSI 1/2", 150 lbs RF 02A1 = Flanges, ANSI 1/2", 150 lbs RF 01A2 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1", 300 lbs RF	53C6 = 1000 milling, 6 mm, PN						
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54P1 = Hose nipple, 8 mm, PN10 55C4 = Tube fitting, 10 mm, PN40 55C6 = Tube fitting, 10 mm, PN100 55C7 = Tube fitting, 10 mm, PN160 56C4 = Tube fitting, 12 mm, PN40 56C6 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN160 01D4 = Flanges, DN15, PN40 02D4 = Flanges, DN25, PN40 01A1 = Flanges, ANSI 1/2", 150 lbs RF 01A2 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1", 300 lbs RF	54C7 = Tube fitting, 8 mm, PN	160					
55C4 = Tube fitting, 10 mm, PN40 55C6 = Tube fitting, 10 mm, PN100 55C7 = Tube fitting, 10 mm, PN160 56C4 = Tube fitting, 12 mm, PN40 56C6 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN160 01D4 = Flanges, DN15, PN40 02D4 = Flanges, ANSI 1/2", 150 lbs RF 02A1 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1/2", 300 lbs RF	54P1 = Hose nipple, 8 mm, PN10						
55C6 = Tube fitting, 10 mm, PN100 55C7 = Tube fitting, 10 mm, PN160 56C4 = Tube fitting, 12 mm, PN40 56C6 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN160 01D4 = Flanges, DN15, PN40 02D4 = Flanges, ANSI 1/2", 150 lbs RF 02A1 = Flanges, ANSI 1/2", 150 lbs RF 01A2 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1", "300 lbs RF	55C4 = Tube fitting, 10 mm, PN40						
55C7 = Tube fitting, 10 mm, PN160 56C4 = Tube fitting, 12 mm, PN40 56C6 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN160 01D4 = Flanges, DN15, PN40 02D4 = Flanges, DN25, PN40 01A1 = Flanges, ANSI 1/2", 150 lbs RF 02A1 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1/2", 300 lbs RF	55C6 = Tube fitting, 10 mm, PN100						
56C4 = Tube fitting, 12 mm, PN40 56C6 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN160 01D4 = Flanges, DN15, PN40 02D4 = Flanges, DN25, PN40 01A1 = Flanges, ANSI 1/2", 150 lbs RF 02A1 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1/2", 300 lbs RF	55C7 = Tube fitting, 10 mm, PN160						
56C6 = Tube fitting, 12 mm, PN100 56C7 = Tube fitting, 12 mm, PN160 01D4 = Flanges, DN15, PN40 02D4 = Flanges, DN25, PN40 01A1 = Flanges, ANSI 1/2", 150 lbs RF 02A1 = Flanges, ANSI 1/2", 150 lbs RF 01A2 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1", 300 lbs RF	56C4 = Tube fitting, 12 mm, Pl	N40					
56C7 = Tube fitting, 12 mm, PN160 01D4 = Flanges, DN15, PN40 02D4 = Flanges, DN25, PN40 01A1 = Flanges, ANSI 1/2", 150 lbs RF 02A1 = Flanges, ANSI 1/2", 150 lbs RF 01A2 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1/2", 300 lbs RF	56C6 = Tube fitting, 12 mm, Pl	N100					
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02A1 = Hanges, ANSI 1", 150 lbs RF 01A2 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1", 300 lbs RF	01A1 = Flanges, ANSI 1/2", 15	50 lbs RF					
01A2 = Flanges, ANSI 1/2", 300 lbs RF 02A2 = Flanges, ANSI 1", 300 lbs RF	U2A1 = Hanges, ANSI 1", 150	Ibs RF					
UZAZ = FIANGES, ANSI I , JUU IDS RF	U1A2 = Flanges, ANSI 1/2", 30	JU IDS KF					
	UZAZ = Flanges, ANSI 1", 300	IDS HF					
Measuring range:	Measuring range:						

99 = Special measuring range

Valve:

- 0 = None
- = Valve on input side, silver valve seat
- 2 = Valve on input side, PCTFE valve seat
- 3 = Valve on output side, silver valve seat
- 4 = Valve on output side, PCTFE valve seat

Display:

- 1 = Local dial indicator display
- 2 = Local dial indicator display, 1 MIN contact
- 3 = Local dial indicator display, 1 MAX contact
- 4 = Local dial indicator display, 1 MIN contact, 1 MAX contact
- 5 = Local dial indicator display, analog output 4 to 20 mA

Options:

- = None 0
- 9 = Please specify in writing

Contacts

Inductive (NAMUR as defined Type: Nominal voltage: 8 VDC

per EN 50227) Recommended for operating the contacts: isolation and switch unit SKF (see data sheet SKF)

Analog output

Power supply:	13.530 VDC
Output:	420 mA
Load impedance:	(U-13.5V)/20 mA
Electrical connection:	QUIKON quick connects

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