



Type 8056 can be combined with...

**Type 6223**

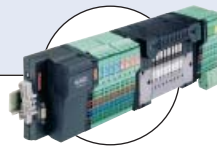
Solenoid control valve

**Type 2100 (8692)**

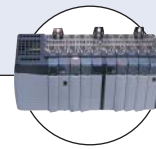
Angle seat valve with Control unit

**Type 2731 (8692)**


TopControl system

**Type 8644**

Valve islands

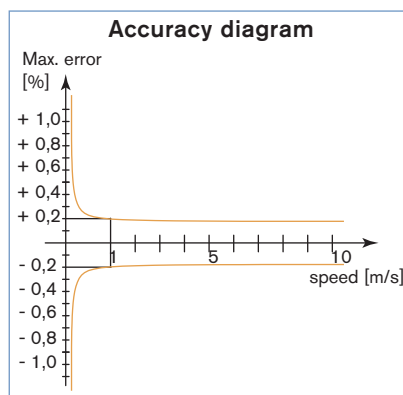
**PLC**

Full Bore Magflowmeter - Sanitary version

- Combination of magflowsensor fitting Type S056 and electronics SE56
- Continuous measurement or Batch Control
- Sanitary version  certificate
- Dedicated to food & beverage or pharmaceutical applications

The complete full bore magflowmeter Type 8056, which consists of a magnetic sensor fitting Type S056 connected to an electronics Type SE56 (blind in compact version or with display in compact or remote version) is designed for applications with liquids with a minimum conductivity of 5 $\mu\text{S}/\text{cm}$.

Combined with a valve as the actuating element, the complete full bore magflowmeter-Type 8056 can control high-precision dosing operations and flow measurement in food & beverage or pharmaceutical industry.



* on request

¹⁾ under reference conditions: water temperature = 20°C, ambient temperature = 25°C, constant flow rate during the test, liquid speed > 1 m/s

General data - S056 sensor fitting

Compatibility	SE56 electronics (see corresponding data sheet)
Materials	
Body	Stainless steel 304
Electrodes (2 in standard)	Stainless steel 316L
Lining	PTFE
Gasket	FKM or EPDM* (FDA approved)
Electrical connection	2 cable glands (PG9)

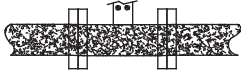
Complete magflowmeter 8056 data - (S056 sensor fitting + SE56 electronics)

Pipe diameter	DN03 up to DN100
Measuring range	0 l/h ... 10 l/h up to 0 m ³ /h ... 280 m ³ /h
Process connection	DIN11851, Clamp ISO2852 or Clamp BS4825 [SMS (from DN10)]*
Medium temperature	
Compact version	-20°C up to 100°C (-4°F to 212°F) (up to +130°C (266°F) for max. 1 hour using blind electronic SE56)
Remote version	-20°C up to 130°C (-4°F to 302°F)
Medium pressure max.	PN16 (232 PSI)
Vacuum resistance	200 mbar (2.9 PSI) absolute at 100°C (212°F)
Accuracy ¹⁾	± 0.2% of reading (see diagram, opposite)
Repeatability	< 0.1%
Minimum conductivity	5 $\mu\text{S}/\text{cm}$ (or 20 $\mu\text{S}/\text{cm}$ with demineralized water)
Environment	
Ambient temperature	-20°C up to 60°C (-4°F up to 140°F) (with display version) or -20°C up to 40°C (-4°F up to 104°F) (with blind version)
Standard	
Protection class	IP67 (Compact version); IP68 (Remote version)
Standard	
EMC	EN 61326-1,
Emission / Immunity	EN 55011 (Group 1, Class B) / IEC 1000-4-2/3/4/5/6/11
Safety	EN 61010

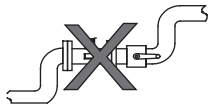
Installation



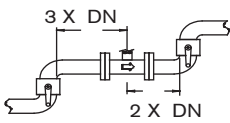
Avoid the functioning with the pipe partially filled.



During flowmeter operation the pipe must be completely full.

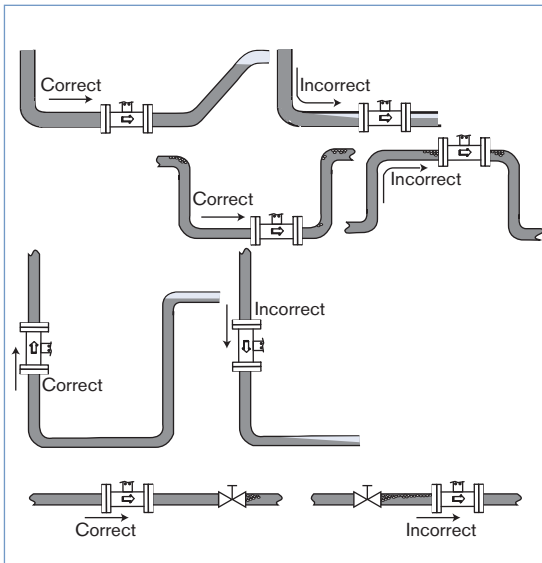


Avoid the installation near curves or hydraulic accessories.



Observe the upstream and downstream distances.

The sensor fitting can be installed into either horizontal or vertical pipes. Mount the S056 sensor fitting in the below as correct indicated ways to obtain an accurate flow measurement.



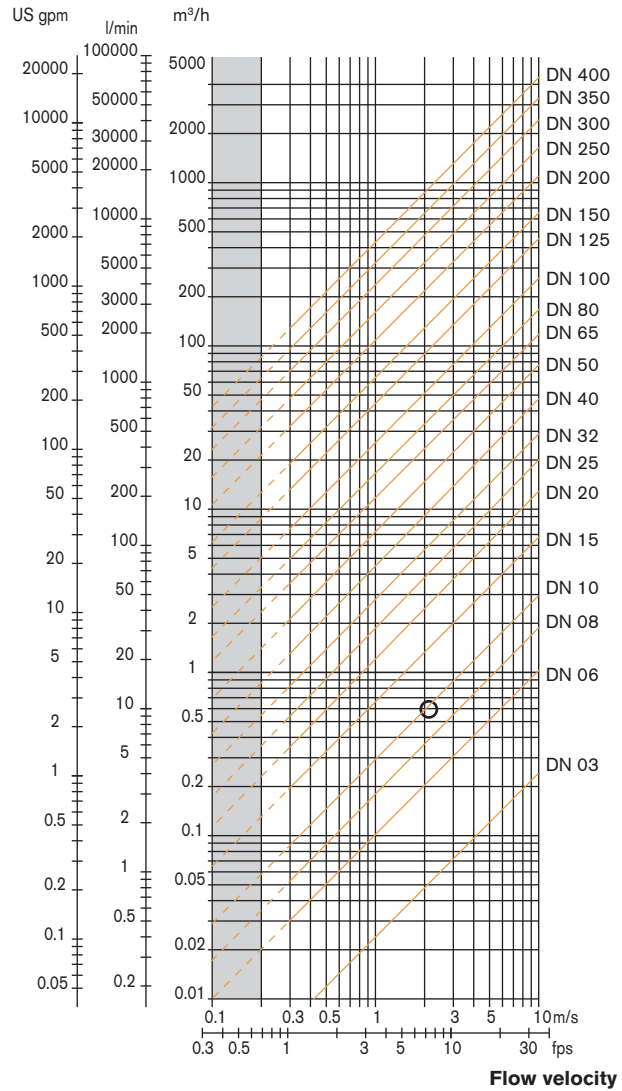
The suitable pipe size is selected using the diagram Flow / Velocity / DN (see diagram to the right).
The flow sensor fitting is not designed for gas flow measurement.

Selection of fitting / pipe size

Example:

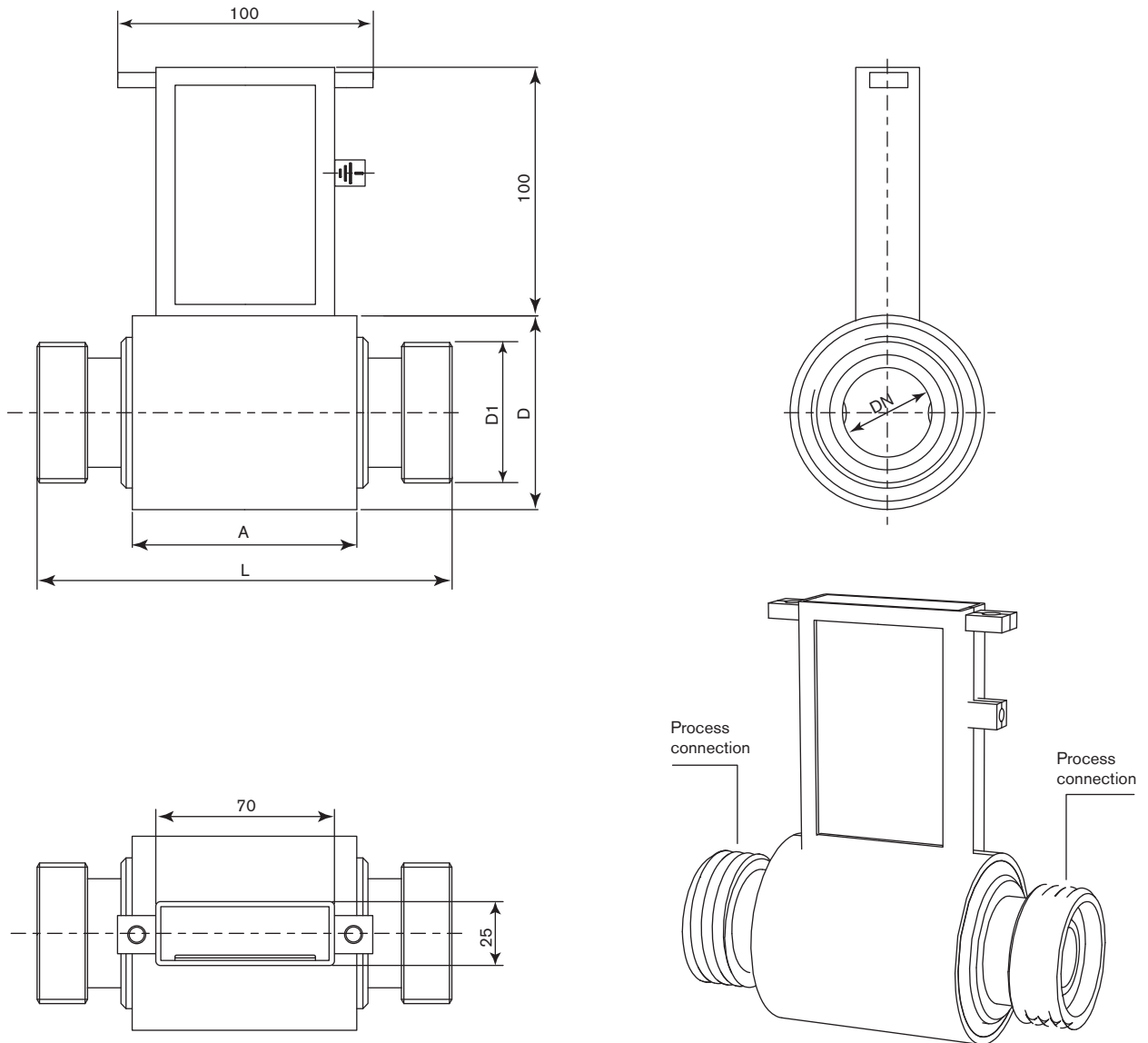
- Specification of nominal flow: 0.6 m³/h
- Ideal flow velocity: 2...3 m/s
- For these specifications, the diagram indicates a pipe size of DN10

Flow rate



Dimensions [mm] of Type S056 sensor fitting - sanitary version DIN 11851

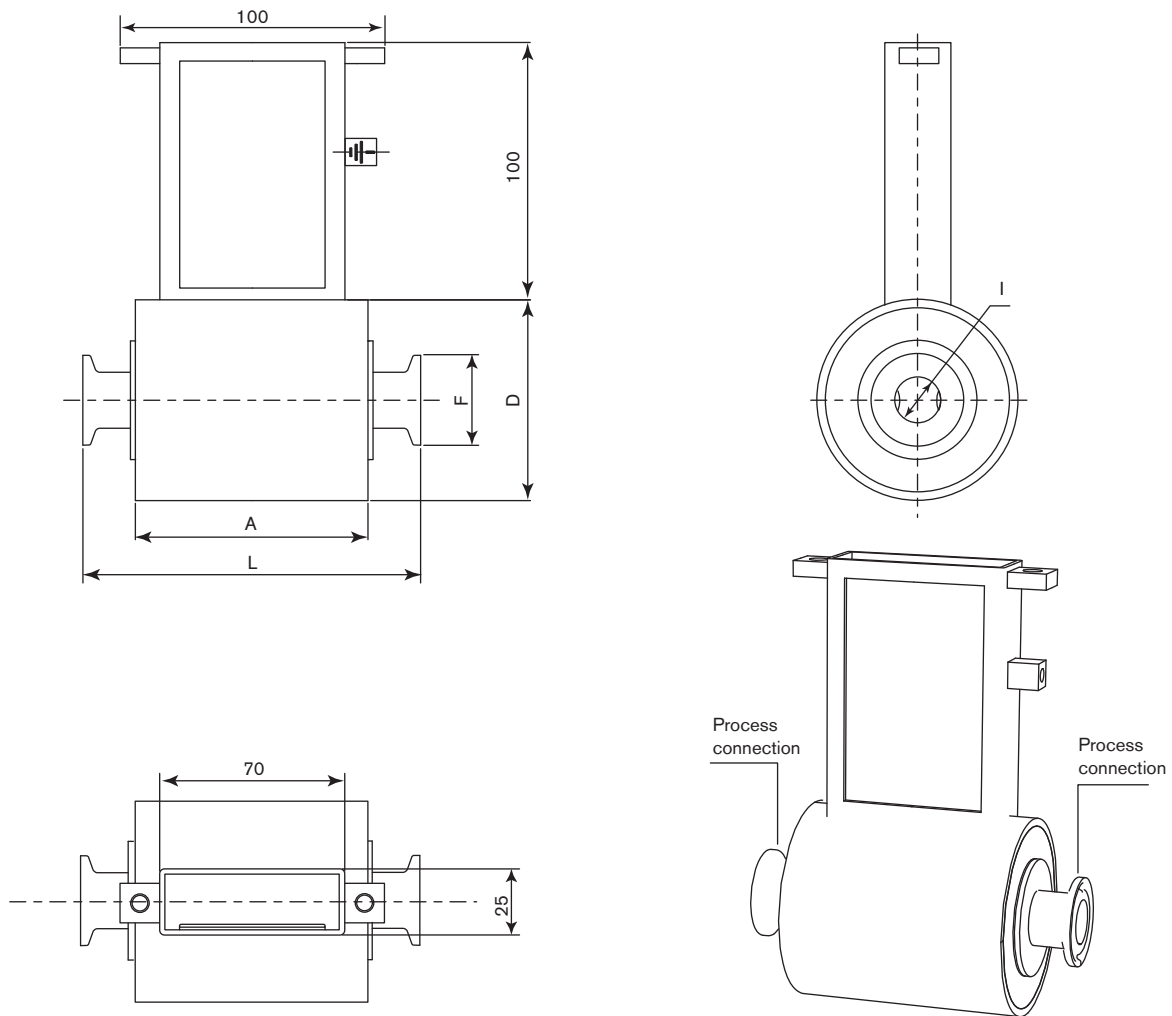
NOTE: Dimensions of SE56 electronics, see corresponding data sheet.



DN	A	L	D	Process connection	D1
03	77	128	76	DN10	RD28 x 1/8
06	77	128	76	DN10	RD28 x 1/8
10	77	128	76	DN10	RD28 x 1/8
15	77	128	76	DN15	RD34 x 1/8
20	77	128	76	DN20	RD44 x 1/6
25	100	180	76	DN25	RD52 x 1/6
32	100	180	89	DN32	RD58 x 1/6
40	100	180	89	DN40	RD65 x 1/6
50	100	180	114	DN50	RD78 x 1/6
65	100	180	140	DN65	RD95 x 1/6
80	100	200	140	DN80	RD110 x 1/4
100	100	200	168	DN100	RD130 x 1/4

Dimensions [mm] of Type S056 sensor fitting - sanitary version Clamp ISO2852 or BS4825

NOTE: Dimensions of SE56 electronics, see corresponding data sheet.



DN	A	L	D	Standard	F	I
03	77	128	76	Clamp ISO2852	34	12.7
				Clamp BS4825	25.4	9.5
06	77	128	76	Clamp ISO2852	34	12.7
				Clamp BS4825	25.4	9.5
10	77	128	76	Clamp ISO2852	34	12.7
				Clamp BS4825	25.4	9.5
15	77	128	76	Clamp ISO2852	34	17.2
				Clamp BS4825	25.4	15.85
20	77	128	76	Clamp ISO2852	34	21.3
				Clamp BS4825	50.5	22.2
25	100	180	76	Clamp ISO2852	50.5	22.6
				Clamp BS4825	50.5	22.2
40	100	180	89	Clamp ISO2852	50.5	35.6
				Clamp BS4825	50.5	34.9
50	100	180	114	Clamp ISO2852	64	48.6
				Clamp BS4825	64	47.6
65	100	180	140	Clamp ISO2852	77.5	60.3
				Clamp BS4825	77.5	60.3
80	100	200	140	Clamp ISO2852	91	72.9
				Clamp BS4825	91	72.9
100	100	200	180	Clamp ISO2852	119	97.6
				Clamp BS4825	119	97.6

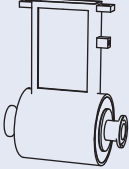
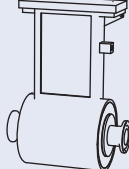
Ordering chart for sanitary magflowmeter 8056

A complete magflowmeter Type 8056 consists of:

- a full bore sensor fitting, sanitary version Type S056
- an electronics Type SE56

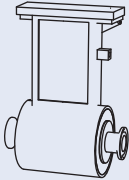
Please order the relevant sensor fitting and the electronics remotely!

Full bore Sensor fitting Type S056

Description	DN [mm]	Flow rate range		Body material	Number of electrodes	Electrode material	Lining material	Process connection	Item no.
		min. 0...04 m/s	max. 0...10 m/s						
Compact version 	03	0...10 [l/h]	0...250 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	555 732
								Clamp ISO2852	554 004
								Clamp BS4825	559 786
	06	0...40 [l/h]	0...1000 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	559 430
								Clamp ISO2852	559 431
								Clamp BS4825	553 325
	10	0...120 [l/h]	0...3000 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	559 432
								Clamp ISO2852	554 904
								Clamp BS4825	554 350
	15	0...240 [l/h]	0...6000 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	553 527
								Clamp ISO2852	553 555
								Clamp BS4825	553 533
	20	0...500 [l/h]	0...12500 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	553 528
								Clamp ISO2852	559 433
								Clamp BS4825	553 534
	25	0...0.72 [m³/h]	0...18 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	553 486
								Clamp ISO2852	554 151
								Clamp BS4825	553 535
	32	0...1.16 [m³/h]	0...29 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	553 529
								Clamp ISO2852	553 741
Clamp BS4825									553 536
40	0...1.80 [m³/h]	0...45 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	553 530	
							Clamp ISO2852	553 741	
								Clamp BS4825	553 536
50	0...2.88 [m³/h]	0...72 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	553 531	
							Clamp ISO2852	555 120	
								Clamp BS4825	553 537
65	0...4.80 [m³/h]	0...120 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	553 532	
							Clamp ISO2852	554 116	
								Clamp BS4825	553 538
80	0...7.20 [m³/h]	0...180 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	555 089	
							Clamp ISO2852	559 434	
								Clamp BS4825	559 791
100	0...11.20 [m³/h]	0...280 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	on request	
							Clamp ISO2852	on request	
								Clamp BS4825	on request
Remote version - with 10 m cable (included) 	03	0...10 [l/h]	0...250 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	551 506
								Clamp ISO2852	551 501
									Clamp BS4825
	06	0...40 [l/h]	0...1000 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	551 507
								Clamp ISO2852	551 502
									Clamp BS4825
	10	0...120 [l/h]	0...3000 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	551 508
								Clamp ISO2852	551 503
									Clamp BS4825
	15	0...240 [l/h]	0...6000 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	551 509
								Clamp ISO2852	551 504
									Clamp BS4825

Ordering chart for sanitary magflowmeter 8056 (continued)

Full bore Sensor fitting Type S056

Description	DN [mm]	Flow rate range		Body material	Number of electrodes	Electrode material	Lining material	Process connection	Item no.
		min. 0..0.04 m/s	max. 0..10 m/s						
Remote version - with 10 m cable (included) 	20	0...500 [l/h]	0...12500 [l/h]	SS 304	2	SS 316L	PTFE	DIN 11851	551 510
								Clamp ISO2852	551 505
								Clamp BS4825	553 925
	25	0...0.72 [m³/h]	0...18 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	448 480
								Clamp ISO2852	448 499
								Clamp BS4825	559 789
	32	0...1.16 [m³/h]	0...29 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	448 481
								Clamp BS4825	554 147
	40	0...1.80 [m³/h]	0...45 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	448 482
								Clamp ISO2852	448 501
								Clamp BS4825	554 147
	50	0...2.88 [m³/h]	0...72 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	448 483
Clamp ISO2852								448 502	
Clamp BS4825								554 138	
65	0...4.80 [m³/h]	0...120 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	448 484	
							Clamp ISO2852	448 503	
							Clamp BS4825	559 790	
80	0...7.20 [m³/h]	0...180 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	448 485	
							Clamp ISO2852	448 504	
							Clamp BS4825	558 854	
100	0...11.20 [m³/h]	0...280 [m³/h]	SS 304	2	SS 316L	PTFE	DIN 11851	448 486	
							Clamp ISO2852	448 505	
							Clamp BS4825	on request	

Electronics Type SE56 (for more data, refer to data sheet Type SE56)

Description	Power supply	Outputs	Housing material	Electrical connection	Item no.
With local display compact version	90 - 265 V AC	2 transistors	Aluminium	6 cable glands	558 745
			Stainless steel	6 cable glands	559 780
		2 transistors + 4...20 mA	Aluminium	6 cable glands	558 747
			Stainless steel	6 cable glands	558 306
With local display remote version	90 - 265 V AC	2 transistors	Aluminium	6 cable glands	559 781
			Stainless steel	6 cable glands	558 310
		2 transistors + 4...20 mA	Aluminium	6 cable glands	558 750
			Stainless steel	6 cable glands	558 308
Blind compact version	20 - 30 V DC	Transistor	Stainless steel	2 cable glands	559 132
		Transistor + 4...20 mA	Stainless steel	2 cable glands	559 133
		Transistor + PROIBUS DP	Stainless steel	2 cable glands	559 134

 Further versions on request

Please also use the "request for quotation" form on page 8 for ordering a customized sensor fitting [go to page](#).

Ordering chart for spare parts/accessories for sensor fitting Type S056

Description	Item no.
Electrode cable, 10 m long (for connection between sensor fitting Type S054/S055 without junction box, S051 or S056 and electronics Type SE56*)	448 518
Coil cable, 10 m long (for connection between sensor fitting Type S054/S055 without junction box, S051 or S056 and electronics Type SE56*)	448 519

* (see corresponding data sheet)