

Full bore INLINE Magmeter

8051 / 8055 / 8056

DN3-150 mm

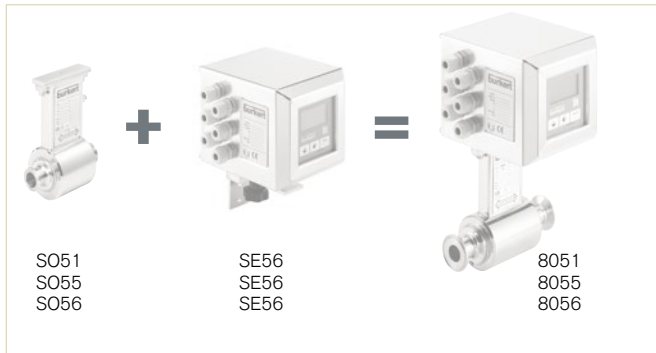
- High frequency sampling
- Flow or Batch Control
- Compact or remote version
- 3 different electronics can be connected to 3 different types of sensors



Shown is the remote flanged sensor and the hygienic clamp compact version

These full bore magmeters accurately measure the flow of liquids with conductivities as low as 5 µS/cm with or without solids. Varied application environments such as water, wastewater, sludge, slurries, pastes, acids, alkalis, juices, fruit pulp can easily be handled. This extremely robust, time tested design incorporates the latest electronics and when combined with a valve as the actuating element they can control high-precision dosing operations.

System Architecture



Technical Data (with standard compact version SE56)

	8051	8055	8056
Pipe diameter	DN03 to DN20	DN25 to DN200 [to DN2000]*	DN03 to DN100
Measuring range	0... 10 l/h to 0... 12500 l/h	0... 0.72 m³/h to 0... 1130 m³/h	0... 10 l/h to 0... 280 m³/h
Process connection	Thread ISO 228-1, NPT (DIN 11851, SMS 1145, Clamp ISO 2852 or BS 4825, Flanges DIN 2501, ANSI on request)	S054: wafer - S055: Flange EN1092-1, ANSI B16-5, [JIS]*	DIN11851, Clamp ISO2852 or Clamp BS4825 [SMS1146 (from DN10)]*
Medium temperature	see datasheet	see datasheet	see datasheet
Medium pressure max.	PN16 (232 PSI) (PN40 (580 PSI), on request)	PN16 (232 PSI) (with PP lining) or [up to PN64 (928 PSI) (with Ebonite or PTFE lining)]*	PN16 (232 PSI)
Vacuum resistance	200 mbar (2.9 PSI) absolute at 100 °C (212 °F)	200 mbar (2.9 PSI) absolute at 100 °C (212 °F)	200 mbar (2.9 PSI) absolute at 100 °C (212 °F)
Accuracy ¹⁾	± 0.2% of reading (SE56 standard; SE56 blind) ± 0.8% of reading (SE56 basic)	± 0.2% of reading (SE56 standard; SE56 blind) ± 0.8% of reading (SE56 basic)	± 0.2% of reading (SE56 standard; SE56 blind) ± 0.8% of reading (SE56 basic)
Repeatability	± 0.1% (SE56 standard; SE56 blind) ± 0.2% (SE56 basic)	± 0.1% (SE56 standard; SE56 blind) ± 0.2% (SE56 basic)	± 0.1% (SE56 standard; SE56 blind) ± 0.2% (SE56 basic)
Minimum conductivity	5 µS/cm (or 20 µS/cm with demineralized water)	5 µS/cm (or 20 µS/cm with demineralized water)	5 µS/cm (or 20 µS/cm with demineralized water)
Environment			
Ambient temperature with			
SE56 standard	-20 to 60 °C (operating and storage)	-20 to 60 °C (operating and storage)	-20 to 60 °C (operating and storage)
SE56 basic	-10 to 50 °C (operating) -20 to 50 °C (storage)	-10 to 50 °C (operating) -20 to 50 °C (storage)	-10 to 50 °C (operating) -20 to 50 °C (storage)
SE56 blind	-20 to 40 °C (operating and storage)	-20 to 40 °C (operating and storage)	-20 to 40 °C (operating and storage)
Standard			
Protection class	IP65 and IP67 (compact version, SE56 standard or SE56 blind) IP65 (remote version, SE56 standard) IP68 (remote version and junction box filled with resin, SE56 standard) IP65 (compact version, SE56 basic)		
Norms	EN 61326-1, EN 55011 (Group 1, Class B) / IEC 1000-4-2/3/4/5/6/11 EN 61010		

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

* on request

Ordering Chart

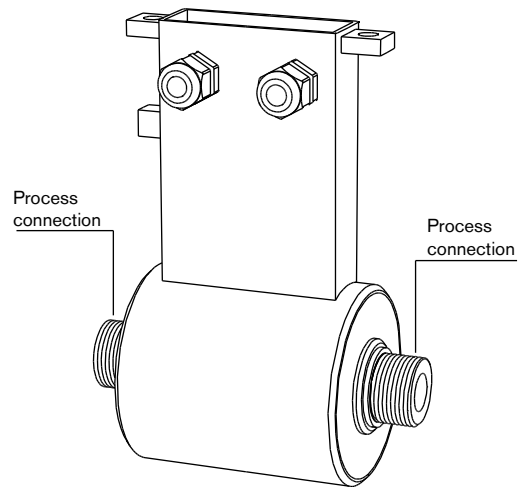
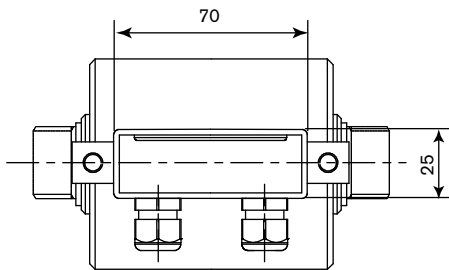
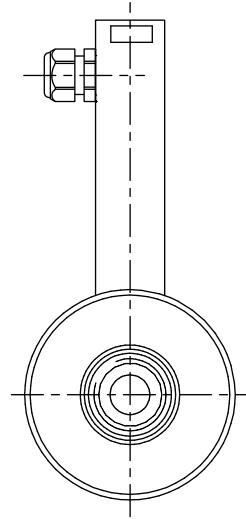
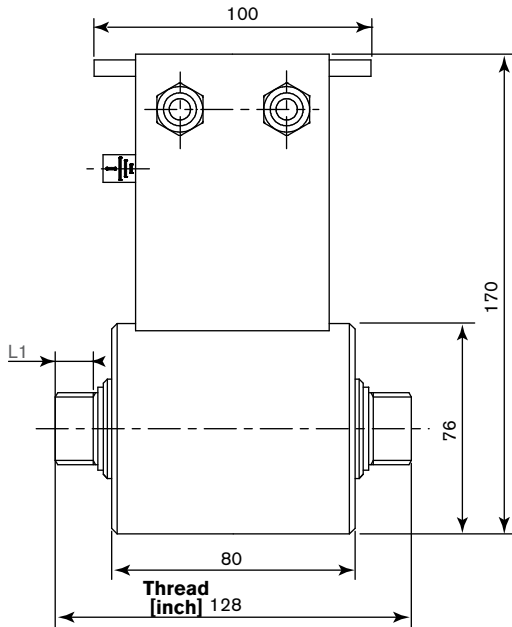
Electronics for electromagnetic flowmeters - SE56		Item no.
Stainless steel		558 306
Aluminium		558 747

INLINE Flow Meter				
Connection [inch]	Orifice [mm]	Flow Range	Lining	Item no.
ISO 228-1 Inline sensor fitting - S051 - Stainless steel body				
1/4	3	0 - 250 l/h	PTFE	554 321
3/8	6	0 - 1000 l/h	PTFE	553 065
1/2	10	0 - 3000 l/h	PTFE	553 374
3/4	15	0 - 6000 l/h	PTFE	553 481
1	20	0 - 12500 l/h	PTFE	553 539
DIN 2501 Inline sensor fitting - S055 - Carbon steel body				
1	25	0 - 18 m³/h	PP	553 540
1 1/2	40	0 - 45 m³/h	PP	553 542
2	50	0 - 72 m³/h	PP	553 485
2 1/2	65	0 - 120 m³/h	PP	553 393
3	80	0 - 180 m³/h	PP	553 394
4	100	0 - 280 m³/h	PP	553 489
6	150	0 - 640 m³/h	PP	557 512
BS4825 Hygienic clamp Inline sensor fitting - S056 - Stainless steel body				
1/8	3	0 - 250 l/h	PTFE	559 786
1/4	6	0 - 1000 l/h	PTFE	553 325
3/8	10	0 - 3000 l/h	PTFE	554 350
1/2	15	0 - 6000 l/h	PTFE	553 533
3/4	20	0 - 12500 l/h	PTFE	553 534
1	25	0 - 18 m³/h	PTFE	553 535
1 1/2	40	0 - 45 m³/h	PTFE	553 536
2	50	0 - 72 m³/h	PTFE	553 537
2 1/2	65	0 - 120 m³/h	PTFE	553 538
3	80	0 - 180 m³/h	PTFE	559 791

Options

- Various sealing materials
- Larger sizes are available as standard
- Individual calibration certificate
- Remote versions (10/20 m cable, IP68), blind version
- St.St. body and EN or ANSI/DIN flanges for S055
- PTFE lining and PN40 pressure class for S054 and S055
- 2 relay outputs NO/NC 2A-250V AC, 60W 125V AC
- Hart, Profibus, RS232, RS485

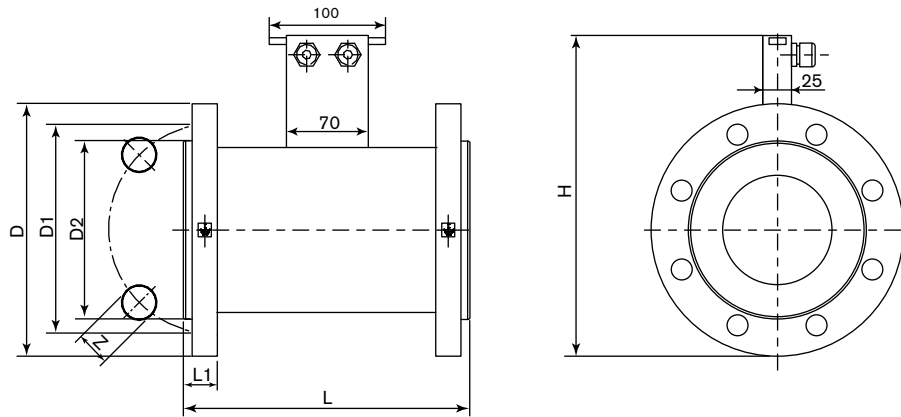
Dimensions [mm] of Type S051 sensor fitting (without full lining)

NOTE: Dimensions of SE56 electronics, see page 454

DN [mm]	Thread [inch]	L1 [mm]
03	G or NPT 1/4"	16.4
06	G or NPT 3/8"	16.4
10	G or NPT 1/2"	17.4
15	G or NPT 3/4"	20.0
20	G or NPT 1"	20.0

Dimensions [mm] of Type S055 sensor fitting – compact flanges version

NOTE: Dimensions of SE56 electronics, see page 454



S055 compact or remote, with flanges PN16

DN	H	L	Standard	L1	Z	D2	D1	D
25	185 182	200	EN1092-1 ANSI 150 RF	18 16.3	4 x 14 4 x 15.9	68 50.8	85 79.4	115 107.9
40	213 202	200	EN1092-1 ANSI 150 RF	18 19.5	4 x 18 4 x 15.9	88 73	110 98.4	150 127
50	228 222	200	EN1092-1 ANSI 150 RF	18 21.1	4 x 18 4 x 19	102 92.1	125 120.7	165 152.4
65	248 245	200	EN1092-1 ANSI 150 RF	18 24.3	4 x 18 4 x 19	122 104.8	145 139.7	185 177.8
80	263 258	200	EN1092-1 ANSI 150 RF	20 25.9	8 x 18 4 x 19	138 127	160 152.4	200 190.5
100	283 287	250	EN1092-1 ANSI 150 RF	20 25.9	8 x 18 8 x 19	158 157.2	180 190.5	220 228.6
150	344 341	300	EN1092-1 ANSI 150 RF	22 27.4	8 x 22 8 x 22.2	212 215.9	240 241.3	285 279.4