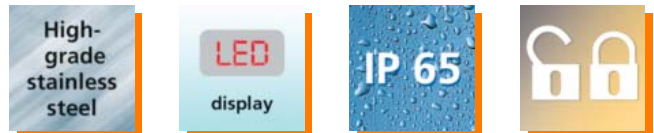


Compressed air meter independent of pipe size



For inside pipe diameters of 38 mm to 254 mm

- Can be used for consumption measurement and leakage monitoring
- Final value of the measuring range from 548 Nm³/h to 29,560 Nm³/h
- Exact flow rate and temperature measurement of compressed air
- Binary, analogue and pulse outputs
- Flow rate measurement in standard cubic metres

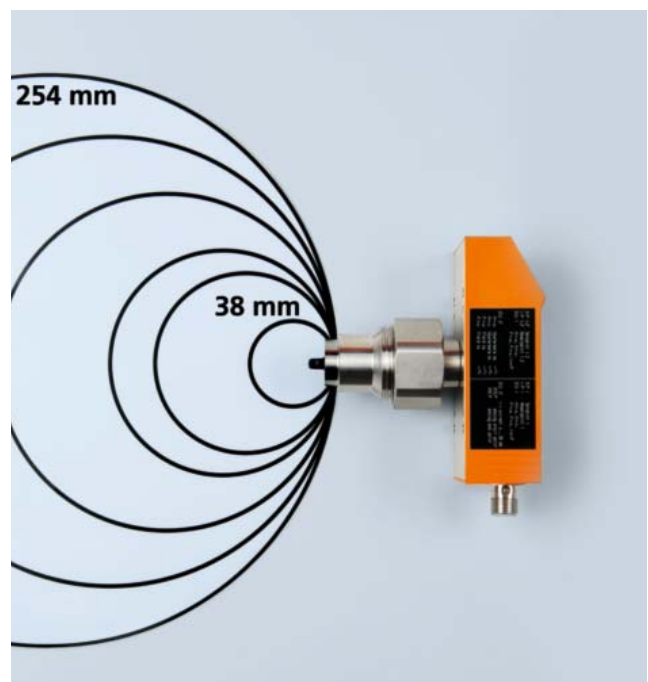


Calorimetric measuring principle

Measuring, display and setting ranges of the compressed air meter refer to the standard volume flow according to DIN ISO 2533. This makes a correction using the temperature and the pressure unnecessary. The fast response time and the high response sensitivity of the system also allow the reliable detection of small volumetric flow quantities.

Adaptation to variable pipe sizes

The measuring ranges for different pipe sizes are stored as reference values in the sensor and can be called and set via the programming buttons.



Compressed air meter for installation in variable pipe sizes using adapters.

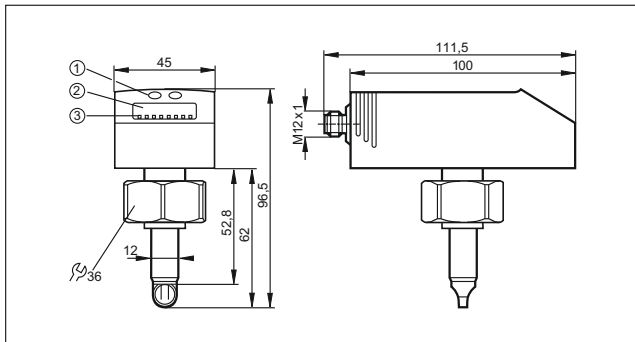
Final value of the measuring range [Nm ³ /h]	Repeatability [% of the measured value]	Measuring accuracy [% of the final value]	Process connection	Order no.
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Application: compressed air in industrial use, air quality (DIN 8573-1)

548...29,560 ± 1.5 ± (6 % MV + 0.6 % VMR) * G 1 female **SD0523**

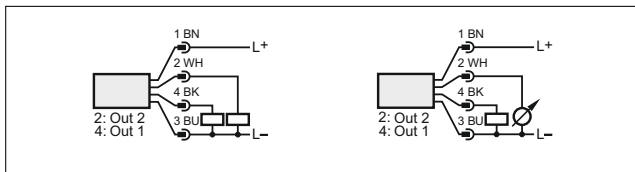
*) For D = 72 mm, T = 22 °C and standard volume flows of 50...850 Nm³/h

Dimensions



- 1) Programming buttons
- 2) 4-digit alphanumeric display
- 3) Status LEDs


Wiring diagram




Further technical data

Type SD0523	
Operating voltage [V]	18...30 DC
Current rating [mA]	2 x 250
Analogue output [mA]	4...20
Short-circuit protection, pulsed	•
Reverse polarity / overload protection	• / •
Medium temperature [°C]	0...60
Ambient temperature [°C]	0...60
Response time [s]	< 0.1 (dAP = 0)
Pressure resistance [bar]	16
Protection rating, protection class	IP 65, III
Connection	M12 connector
Housing materials	PBT-GF 20; PC (polycarbonate); stainless steel (304/1.4301); FPM
Materials wetted parts	High-grade stainless steel (316/1.4401), ceramics; glass passivated; PEEK (polyetheretherketone); polyester; FPM; aluminium; anodised

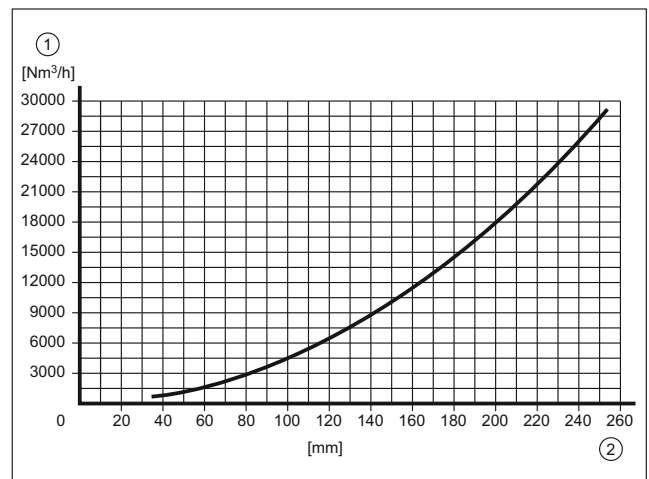
Accessories

Type	Description	Order no.
	Welding adapter, G 1 female – Ø 20 mm	E40195

Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005
	Socket, M12, 10 m black, PUR cable	EVC006

Measuring / setting range



Final value of the measuring range (1) referred to the internal pipe diameter (2)

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