

Flowmeter, DN 50, R 2, 2.0 - 1195 m³/h - Riegler 135876

Item no. RGL-135876

Manufacturer Riegler

EAN 4047322501170

Flowmeter, DN 50, R 2, 2.0 - 1195 m³/h

TECHNICAL DATA

Betriebsdruck max [bar]	16.000000
Country of Manufacture	Germany
Medium	Compressed air, neutral gases
Nominal size DN [mm]	50
Pneumatic connection	R2 AG
Thread	R 2 AG
Weight	2.493 kg
Zolltarifnummer	90268020



DESCRIPTION

Flowmeter incl. measurement section with threaded connection R 2, DN 50, Measuring range 2.0 - 1195 m³/h, PN max. 16 bar Calorimetric measurement system for monitoring changes in flow and consumption as well as for leak and energy efficiency measurements. No additional pressure or temperature compensation is necessary. All measured values are recorded digitally, making very rapid, high-precision measurement possible. High measurement accuracy due to defined measurement section. - Display: Current consumption in l/min, m³/hr, etc. and total consumption (meter reading) in m³, l, etc. - Total consumption (meter reading) can be reset to zero with keypad - Display can pivot 180°, measuring device can be unscrewed - Measured quantities: m³/hr, l/min (1000 mbar, 20 °C) for compressed air or Nm³/h, NI/min (1013 mbar, 0 °C) for gases - Units: m³/hr, m³/min, l/min, etc. can be selected with keypad - Gas types: Compressed air (= standard), other gas types such as nitrogen, argon, CO₂, etc. can be selected with hand-held measurement unit - Accuracy: ± 1.5% of measured value - Digital output: RS 485 interface, Modbus RTU for connecting to energy management systems, building management systems, etc. - Housing material: Polycarbonate (IP65) - Measurement section material: Stainless steel 1.4301 Not included in delivery: - Wall power supply - Portable hand-held measurement unit with mobile data logger

TECHNICAL DATA

DN	50 mm
Thread	R 2 ET
Min. temperature range	-30 °C

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Max. temperature range	80 °C
Max. operating pressure	16 bar
Flow rate output	analogue 4 - 20 mA, pulse output (galvanically separated)
Tube I.D.	53.1 mm
Flow measuring range min.	2.0 m³/h
Flow measuring range max.	1195 m³/h
L	475.0 mm
H1	165.7 mm
Measuring system	calorimetric measurement
Medium	compressed air, neutral gases
Operating voltage	24 V DC
Display	background lighting

STANDARDS AND ORIGIN

- Customs tariff number: 90268020
- Country of origin: DE

ABOUT FLOWMETER

Flow meters record air consumption of single machines or of entire network sections and expose leakage before it shows up on the energy bill. The units run on compressed air and neutral gases at maximum operating pressures of 8 to 16 bar, and part of the range measures down to -0.9 bar into the vacuum region.

WHAT MATTERS WHEN CHOOSING

- Size BG 0 to 4 sets the measurable flow rate. Choose it from the actual consumption of the machine rather than from the pipe cross section.
- Thread and DN: female threads from G 1/2 to G 2, male threads from R 1/4 to R 2 and nominal widths DN 8 to 50 mm are available. Small consumers connect through the Ø 8 mm push-in port.
- Analogue or IO-Link version: analogue fits existing current-loop evaluation, IO-Link delivers reading and diagnostics straight to the controller.
- Series FLUX, FLUX 0 or FUTURA together with the function set: pure flow meters exist alongside combined units with switching output, pressure gauge, thermometer and pressure switch.
- Protection class and housing: IP 65 in an aluminium housing for the machine floor, IP 40 in a technopolymer housing for protected installation.

TYPICAL APPLICATIONS

- Metering consumption per machine to allocate compressed air cost
- Tracing leakage in network sections by comparing night and shift consumption
- Permanent monitoring of blow-off and purge air, where rising demand points to worn nozzles
- Energy efficiency projects that log trends through the control system
- Supervision of test and leak-check stations where a steady flow rate is part of the test condition

The intended medium is compressed air or neutral gas, and some units require oil-free compressed air. The 51 items in this group are manufactured in Italy, Germany, Taiwan, China and the USA.

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Page 3/3