

MEDICAL DEVICES BY GREGGERSEN



CATALOG FLOWMETER

there is no substitute



Kolibri compact flowmeter

PLUG-IN UNITS

APPLICATIONS

Medical, stop-adjustable compact flowmeter for oxygen and compressed air in accordance with DIN EN ISO 15002. Plug-in unit for direct coupling to a DIN outlet. The Kolibri compact flowmeter has an impressive compact design. The precise adjustment of the flow steps and the robustness of the entire unit are properties that combine user-friendliness and economy optimally.

TECHNICAL DATA

Design:	10-step flowmeter Adjusting ring: POM Housing: brass, chrome-plated
Medium:	O ₂ + AIR (other gases on request)
Inlet:	Plug-in, in accordance with DIN 13260-2 – gas-specific
3 different lengths available:	Short: 49 mm Standard: 69 mm Extended: 89 mm
Primary pressure:	450 kPa ± 50 kPa
Outlet:	9/16"-18 UNF with flow nozzle, suitable for connecting to humidifiers or disposable humidifiers (e.g. RESPIFLO from Kendall)
Accuracy:	±20% of set value
Dimensions/weight:	40 x 100 x 110 mm (WxHxD) / 325 g

FLOWRATES

Stop:	1	2	3	4	5	6	7	8	9	10	
Standard:	0,5	1	1,5	2	3	4	6	8	12	15	l/min
Standard+:	0,5	1	2	4	6	8	10	12	15	30+	l/min
Paediatric:	0,1	0,3	0,5	0,6	0,8	1	2	3	4	5	l/min
Neonatal:	0,1	0,15	0,2	0,25	0,3	0,4	0,5	0,6	0,8	1,0	l/min

KOLIBRI FLOWMETER, O₂, PLUG-IN UNIT

Kolibri compact flowmeter, Standard, O ₂ , 0-15 l/min, plug-in unit, DIN	901.400
Kolibri compact flowmeter, Standard+, O ₂ , 0-30 l/min, plug-in unit, DIN	901.401
Kolibri compact flowmeter, Paediatric, O ₂ , 0-5 l/min, plug-in unit, DIN	901.404
Kolibri compact flowmeter, Neo, O ₂ , 0-1 l/min, plug-in unit, DIN	901.405
Kolibri compact flowmeter, O ₂ , 10 selectable flows, plug-in unit, DIN	901.406

KOLIBRI DOUBLE FLOWMETER, PLUG-IN UNIT

Kolibri double compact flowmeter, O ₂ , 0-15 l/min, plug-in unit, DIN	901.408
Kolibri double compact flowmeter, AIR, 0-15 l/min, plug-in unit, DIN	500.248

KOLIBRI FLOWMETER, AIR, PLUG-IN UNIT

Kolibri compact flowmeter, AIR, preset flow, 6 l/min, plug-in unit, DIN	901.402
Kolibri compact flowmeter, AIR, preset flow, 8 l/min, plug-in unit, DIN	901.403
Kolibri compact flowmeter, Standard, AIR, 0-15 l/min, plug-in unit, DIN	901.491
Kolibri compact flowmeter, AIR, 10 selectable flows, plug-in unit, DIN	901.407

Tube flowmeter

PLUG-IN UNITS

APPLICATIONS

Medical, pressure-compensated tube flowmeter in accordance with DIN EN ISO 15002. Plug-in unit for direct coupling to a DIN outlet.

Chrome-plated all-metal housing with a fine control valve for continuous adjustment of the flow. Measuring tubes with float to display the set value.

The outlet has a 9/16" thread for direct connection to e.g. disposable humidifiers.

TECHNICAL DATA

Design:	Control valve, connector insert, hand wheel: brass, chrome-plated. Measuring tube sleeve: polycarbonate. Measuring tubes: polysulfone.
Medium:	O ₂ + AIR (other gases on request)
Inlet:	Plug-in, in accordance with DIN 13260-2 – gas-specific
2 different lengths available:	Standard: 69 mm Extended: 89 mm
Primary pressure:	450 kPa ± 50 kPa
Outlet:	9/16"-18 UNF thread, suitable for connecting humidifiers or disposable humidifiers (e.g. RESPIFLO from Kendall)
Flowrates:	0-6 l/min 0-15 l/min 0-30 l/min
Accuracy:	± 10% of full scale
Dimensions/weight:	30 x 180 x 110 mm (WxHxD) / 330g



TUBE FLOWMETER, O₂, PLUG-IN UNIT

Flowmeter, O ₂ , 0-6 l/min, plug-in unit, DIN	900.751
Flowmeter, O ₂ , 0-15 l/min, plug-in unit, DIN	900.753
Flowmeter, O ₂ , 0-30 l/min, plug-in unit, DIN	900.755
Flowmeter, O ₂ , 0-6 l/min, extended, plug-in unit, DIN	900.752
Flowmeter, O ₂ , 0-15 l/min, extended, plug-in unit, DIN	900.754
Flowmeter, O ₂ , 0-30 l/min, extended, plug-in unit, DIN	900.756

TUBE FLOWMETER, AIR, PLUG-IN UNIT

Flowmeter, AIR, 0-15 l/min, plug-in unit, DIN	900.893
Flowmeter, AIR, 0-15 l/min, extended, plug-in unit, DIN	900.894

DOUBLE FLOWMETER, PLUG-IN UNIT

Double flowmeter, O ₂ , 0-6 l/min, plug-in unit, DIN	900.746
Double flowmeter, O ₂ , 0-15 l/min, plug-in unit, DIN	900.745
Double flowmeter, O ₂ , 0-30 l/min, plug-in unit, DIN	900.747
Double flowmeter, AIR, 0-15 l/min, plug-in unit, DIN	900.748

Kolibri compact flowmeter

RAIL-MOUNTED UNITS

APPLICATIONS

Medical, stop-adjustable compact flowmeter for oxygen and compressed air in accordance with DIN EN ISO 15002. The Kolibri compact flowmeter has an impressive compact design. The precise adjustment of the flow steps and the robustness of the entire unit are properties that combine user-friendliness and economy optimally. Rail-mounted unit, incl. rail clamp for attaching to a standard wall-mounted rail (25x10 mm or 30x10 mm). Pressure inlet integrated into the rail clamp (NIST).

Please order connecting hose separately.

TECHNICAL DATA

Design:	10-step stop-adjustable flowmeter. Brass, chrome-plated Adjusting ring made of POM. Rail clamp with knurled nut for standard wall-mounted rail 25x10 mm (30x10 mm on request)
Medium:	O ₂ + AIR (other gases on request)
Inlet:	NIST – gas-specific in accordance with DIN EN 15908
Primary pressure:	450 kPa ± 50 kPa
Outlet:	9/16"-18 UNF with flow nozzle, suitable for connecting to humidifiers or disposable humidifiers (e.g. RESPIFLO from Kendall)
Accuracy:	±10% of set value at flows < 0.5 l/min ± 0.05 l/min
Dimensions/weight:	40 x 105 x 90 mm (WxHxD) / 675 g

FLOWRATES

Stop:	1	2	3	4	5	6	7	8	9	10	
Standard:	0,5	1	1,5	2	3	4	6	8	12	15	l/min
Standard+:	0,5	1	2	4	6	8	10	12	15	30+	l/min
Paediatric:	0,1	0,3	0,5	0,6	0,8	1	2	3	4	5	l/min
Neonatal:	0,1	0,15	0,2	0,25	0,3	0,4	0,5	0,6	0,8	1,0	l/min

KOLIBRI FLOWMETER, O₂, RAIL-MOUNTED UNIT, NIST, WITHOUT CONNECTING HOSE

For connecting hose, see product group accessories

Kolibri compact flowmeter, standard, O ₂ , 0-15 l/min, rail-mounted unit, NIST	902.600
Kolibri compact flowmeter, standard+, O ₂ , 0-30 l/min, rail-mounted unit, NIST	902.601
Kolibri compact flowmeter, paediatric, O ₂ , 0-5 l/min, rail-mounted unit, NIST	902.602
Kolibri compact flowmeter, neo, O ₂ , 0-1 l/min, rail-mounted unit, NIST	902.603
Kolibri compact flowmeter, O ₂ , 10 selectable flows, rail-mounted unit, NIST	902.604

KOLIBRI DOUBLE FLOWMETER, O₂, RAIL-MOUNTED UNIT, NIST, WITHOUT CONNECTING HOSE

For connecting hose, see product group accessories

Kolibri double compact flowmeter, standard, O ₂ , 0-15 l/min, rail-mounted unit, NIST	901.495
Kolibri double compact flowmeter, standard, AIR, 0-15 l/min, rail-mounted unit, NIST	500.248

KOLIBRI FLOWMETER, AIR, RAIL-MOUNTED UNIT, NIST, WITHOUT CONNECTING HOSE

For connecting hose, see product group accessories

Kolibri compact flowmeter, AIR, preset flow, 6 l/min, rail-mounted unit, NIST	902.605
Kolibri compact flowmeter, AIR, preset low, 8 l/min, rail-mounted unit, NIST	902.606
Kolibri compact flowmeter, AIR, 0-15 l/min, rail-mounted unit, NIST	902.608
Kolibri compact flowmeter, AIR, 0-30 l/min, rail-mounted unit, NIST	902.609
Kolibri compact flowmeter, AIR, 10 selectable flows, rail-mounted unit, NIST	902.607

Tube flowmeter

RAIL-MOUNTED UNITS

APPLICATIONS

Medical, pressure-compensated flowmeter in accordance with DIN EN ISO 15002. Rail-mounted unit, incl. rail clamp for attaching to a standard wall-mounted rail (25x10 mm or 30x10 mm). Pressure inlet integrated into the rail clamp (NIST).

Chrome-plated all-metal housing with fine-control valve for continuous adjustment of the flow. Measuring tubes with float to display the set value.

The outlet has a 9/16" thread for direct connection to e.g. disposable humidifiers.

Please order connecting hose separately.

TECHNICAL DATA

Design:	Control valve, connector insert, hand wheel: brass, chrome-plated Measuring tube sleeve: polycarbonate Measuring tubes: polysulfone Rail claw with knurled nut For standard 25x10 mm wall-mounted rail (30x10 mm on request)
Medium:	O ₂ + AIR (other gases on request)
Inlet:	NIST – gas-specific in accordance with DIN EN 15908
Primary pressure:	450 kPa ± 50 kPa
Outlet:	9/16"-18 UNF thread. Suitable for connecting humidifiers or disposable humidifiers (e.g. RESPIFLOW from Kendall)
Flowrates:	0-6 l/min 0-15 l/min 0-30 l/min
Accuracy:	± 10% of full scale
Dimensions/weight:	40x180x110 mm (WxHxD) / 690 g



MED FLOWMETER

FLOWMETER, RAIL-MOUNTED UNIT, NIST, WITHOUT CONNECTING HOSE

For connecting hose, see product group accessories

Flowmeter, O ₂ , 0-6 l/min, rail-mounted unit, NIST	902.610
Flowmeter, O ₂ , 0-15 l/min, rail-mounted unit, NIST	902.611
Flowmeter, O ₂ , 0-30 l/min, rail-mounted unit, NIST	900.612
Flowmeter, AIR, 0-15 l/min, rail-mounted unit, NIST	900.613

DOUBLE FLOWMETER, RAIL-MOUNTED UNIT, NIST, WITHOUT CONNECTING HOSE

For connecting hose, see product group accessories

Double flowmeter, O ₂ , 0-15 l/min, rail-mounted unit, NIST	902.620
Double flowmeter, AIR, 0-15 l/min, rail-mounted unit, NIST	902.621

Medication nebulisers

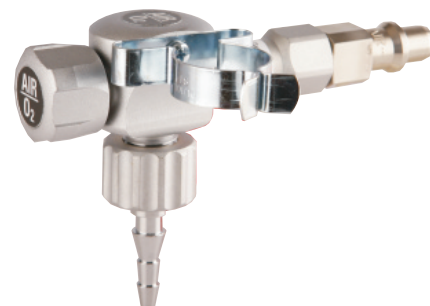
APPLICATIONS NEBULISER PLUG-IN VALVE WITH CLAMP

In conjunction with a medication nebuliser for dosed dispensing of medical compressed air or medical oxygen for the inhalation of medications administered as aerosols.

Incl. side clamp for attaching e.g. a disposable medication nebuliser.

TECHNICAL DATA

Design:	Chrome-plated all-metal design, dosing valve, plug-in unit for compressed air or oxygen
Medium:	Medical compressed air (AIR) or oxygen (O ₂)
Inlet:	Plug-in, in accordance with DIN 13260-2 - gas-specific
Primary pressure:	450 kPa ± 50 kPa
Outlet:	Hose connector for 4/6 mm hose
Flowrate:	Preset, 5 l/min ± 0.5 l/min
Dimensions:	50 x 60 x 100 mm (WxHxD) / weight: 240g



Nebuliser plug-in valve



Nebuliser valve

APPLICATIONS NEBULISER VALVE WITH PARKING POSITION

Plug-in valve, preset to 5 l/min. In conjunction with Kendall's Respi-Jet medication nebuliser for dosed dispensing of medications administered as aerosols.

For direct coupling to a compressed air outlet The upper ring is configured that when not in use, the Respi-Jet nebuliser can be parked on the valve.

TECHNICAL DATA

Design:	Brass, chrome-plated, with quick-action valve
Medium:	Medical compressed air (AIR)
Inlet:	Plug-in, in accordance with DIN 13260-2 - gas-specific
Primary pressure:	450 kPa ± 50 kPa
Outlet:	9/16"-18 UNF thread
Flowrate:	Preset, 5 l/min ± 0.5 l/min
Dimensions:	50 x 60 x 100 mm (WxHxD) / weight: 240 g



Parked position



Application example

NEBULISER PLUG-IN VALVE, AIR

Nebuliser plug-in valve with side clamp, AIR/O ₂ , 5 l/min, plug-in unit, DIN	900.865
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NEBULISER VALVE FOR RESPI-JET, AIR

Nebuliser valve, single, AIR, plug-in unit, DIN	900.765
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Accessories

HUMIDIFIERS AND NEBULISERS

APPLICATIONS

For use in insufflation or inhalation.

Humidifier bubble jet for the moistening of e.g. oxygen, compressed air or nebuliser unit for the nebulisation (aerosol treatment) of sterile water or medications.

TECHNICAL DATA

Design:	Chrome-plated all-metal design. Suitable for connection to a flowmeter.
Material:	Head: brass, chrome-plated Bottle: Apec®
Medium:	Sterile water
Inlet:	9/16-18 UNF
Capacity:	250 ml total volume
Outlet:	6 mm flow nozzle (humidifier) or 22 mm ventilation hose connector (nebuliser)
Dimensions (WxHxD) /Weight:	90x190x55 mm / 320 g (humidifier) 90x190x55 mm / 370 g (nebuliser)



HUMIDIFIER / NEBULISER

Humidifier unit, complete	904.836
Nebuliser unit, complete	904.837
Bottle, 250 ml, imprinted	900.922

FLOWMETER SPARE PARTS

Hose connector for flowmeter with 9/16" union nut	900.619
Measuring tube, 0-6 l/min incl. float	326.458
Measuring tube, 0-15 l/min incl. float	800.278
Measuring tube, 0-30 l/min incl. float	800.279
Measuring tube sleeve	100.089
O-ring 18.77x1.78 NBR 70	100.014
O-ring 6 x 2 NBR 70	100.083
Tube Flowmeter repair kit	900.430
Kolibri flowmeter repair kit	900.431
Med. flowmeter servicing fee	902.047

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MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
164429-2014-AQ-GER-DAkKS

Initial certification date:
20 January 2019

Valid:
20 January 2019 - 19 January 2022

This is to certify that the management system of

Greggersen Gasetechnik GmbH

Bodestraße 27-29, 21031 Hamburg, Germany

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:

Design, construction, manufacture, final inspection, distribution, planning, installation and service of central gas supply systems, outlets, medical gas devices and accessories, autogenous welding and cutting equipment, compressed gas technology

Place and date:
Essen, 17 July 2019



Deutsche
Akkreditierungsstelle
D-ZM-18453-01-00

For the issuing office:
DNV GL - Business Assurance
Schnieringshof 14, 45329 Essen, Germany

Thomas Beck
Management Representative

Certificate

The certification body

MEDCERT Zertifizierungs- und Prüfungsgesellschaft für die Medizin GmbH
Pilatuspool 2 – 20355 Hamburg – Germany

herewith certifies that the company

Greggersen Gasetechnik GmbH
Bodestraße 27-29
21031 Hamburg
Germany

has introduced, applies and maintains a quality management system in the area of:

**Design and development, manufacture, final inspection, distribution,
installation, and servicing of**

- **Central gas supply systems**
- **Terminal units**
- **Medical gas devices and accessories**

The conformity of this quality management system to the requirements of the below mentioned standard was verified by an audit:

EN ISO 13485:2016

This certification is subject to surveillance by MEDCERT.

Effective date: 2020-06-03
Expiry date: 2021-12-18

Report No.: 0874PS25F
Procedure No.: QS – 0874
Certificate No.: 0874GB445200603

Hamburg, 2020-06-03

MEDCERT Certification Body
(Markus Bianchi)

The certificate is only valid when provided entirely with all of its pages.
To verify the validity of this certificate, contact info@medcert.de.

MEDCERT is a DAkkS accredited management systems
certification body

EC Certificate of Conformity

The Notified Body

MEDCERT Zertifizierungs- und Prüfungsgesellschaft für die Medizin GmbH
Pilatuspool 2 – 20355 Hamburg – Germany

herewith certifies that the company:

Greggersen Gasetechnik GmbH
Bodestraße 27-29
21031 Hamburg
Germany

has introduced, applies and maintains a quality assurance system for the products / product categories listed in the appendix.

The compliance of this quality assurance system with the below mentioned requirements of the **Council Directive 93/42/EEC** was verified by an audit:

Annex II without section 4

This certification is subject to surveillance by MEDCERT.

Effective date: 2020-06-03

Expiry date: 2023-12-18

Report No.: 0874PS25F
Process No.: QS – 0874
Certificate No.: 0874GB410200603

Hamburg, 2020-06-03

MEDCERT Certification Body
(Markus Bianchi)

The certificate is only valid when provided entirely with all of its pages.
To verify the validity of this certificate, contact info@medcert.de.

MEDCERT Identification Number: 0482



Appendix of EC Certificate of Conformity

Process No.: QS – 0874

Certificate No.: 0874GB410200603

List of products / product categories included in the scope of certificate

- **Central gas supply systems**
- **Terminal units**
- **Pressure reducers**
- **Flowmeters**
- **Compressed gas and vacuum regulators**
- **Low pressure hose assemblies**
- **Suction units**
- **Vaporizer and atomizer units**
- **Insufflation units**

– End of list –

This appendix is integral part of the above-referenced certificate.
The certificate is only valid when provided entirely with all of its pages.
To verify the validity of this certificate, contact info@medcert.de.

MEDCERT Identification Number: 0482

Form F10010005e EN / Rev. 11 / 2019.11.14



Benannt durch/Designated by
Zentralstelle der Länder
für Gesundheitsschutz
bei Arzneimitteln und
Medizinprodukten
www.zlg.de
ZLG-BS-237.10.15

EG-KONFORMITÄTSERKLÄRUNG

entsprechend Anhang II der Richtlinie 93/42/EWG über Medizinprodukte

EC DECLARATION OF CONFORMITY

according to annex II of the Council Directive 93/42/EEC concerning medical devices

Wir erklären in alleiniger Verantwortung, dass die unten bezeichneten Produkte den einschlägigen Bestimmungen der Richtlinie 93/42/EWG über Medizinprodukte entsprechen.

We declare under our sole responsibility that the products mentioned below meet the provisions of the Council Directive 93/42/EEC concerning medical devices.

Medizinisches Flowmeter Kolibri Medical Flowmeter Kolibri

DIN EN ISO 15002 ; DIN 13260-2 ; BS 5682 ; NF S 90-116 ; SS 87 524 30

Klasse/Class IIa

Revisionsstand/ revision status: 1.1

Bei einer nicht bestimmungsgemäßen Verwendung des Produkts oder einer nicht mit uns abgestimmten Änderung verliert diese Erklärung ihre Gültigkeit.

In the event of using this product not according with the regulations or modification without our approval this declaration will be rendered invalid.

Hamburg 2010-07-01/ T. Greggersen

Ort/Datum/Name

Place/Date/Name

Hersteller:
Manufacturer:

GREGGERSEN Gasetechnik, Germany
Bodestraße 27-29
21031 Hamburg
Germany

 0482

Benannte Stelle:
notified body:

MedCert GmbH
Pilatuspool 2
20355 Hamburg
Germany

EG-KONFORMITÄTSERKLÄRUNG

entsprechend Anhang II der Richtlinie 93/42/EWG über Medizinprodukte

EC DECLARATION OF CONFORMITY

according to annex II of the Council Directive 93/42/EEC concerning medical devices

Wir erklären in alleiniger Verantwortung, dass die unten bezeichneten Produkte den einschlägigen Bestimmungen der Richtlinie 93/42/EWG über Medizinprodukte entsprechen.

We declare under our sole responsibility that the products mentioned below meet the provisions of the Council Directive 93/42/EEC concerning medical devices.

Medizinisches Röhren Flowmeter
Medical Tube Flowmeter

DIN EN ISO 15002 ; DIN 13260-2 ; BS 5682 ; NF S 90-116 ; SS 87 524 30

Klasse/Class IIa

Revisionsstand/ revision status: 1.1

Bei einer nicht bestimmungsgemäßen Verwendung des Produkts oder einer nicht mit uns abgestimmten Änderung verliert diese Erklärung ihre Gültigkeit.

In the event of using this product not according with the regulations or modification without our approval this declaration will be rendered invalid.

Hamburg 2011-09-01/ T. Greggersen

Ort/Datum/Name
Place/Date/Name

Hersteller:
Manufacturer:

GREGGERSEN Gasetechnik, Germany
Bodestraße 27-29
21031 Hamburg
Germany

 0482

Benannte Stelle:
notified body:

MedCert GmbH
Pilatuspool 2
20355 Hamburg
Germany