



Suction and Oxygen Therapy (SOT)

A wide range to complement your
medical gas and vacuum systems

General

We offer a comprehensive portfolio of high-quality Suction and Oxygen Therapy (SOT) devices with a wide range of accessories for a seamless connection to your medical gas supply.

Our SOT devices fully comply with the strict requirements of the European Medical Device Directive and the associated standards.

Through the compact design and their simple, intuitive operation, the devices are very user-friendly and safe in use. The SOT devices are primarily made fully out of metal. This makes them compared to plastic products not only very robust, but also highly resistant to bacteria thanks to the nickel-plated surface.

This means that our durable, economical SOT devices offer you many years of safe support and care for your patients.



Flowmeters

Our medical all-metal flowmeters are designed for the sampling of medical gases in medical application facilities, e.g. for oxygen - O_2 , compressed air - Air 5, nitrous oxide - N_2O , carbon dioxide - CO_2 , and nitrogen - N_2 .

Flowmeters are available with a gas specific probe for a direct connection to a medical gas terminal unit, as well as with a rail clamp for mounting on a pendant or bed head rail and a NIST fitting for the connection to the medical gas terminal unit using a low-pressure hose.

The flowmeter range has different versions of single and double flowmeters, as well as step flowmeters. Special versions are available on request.



Step-Flowmeter



Single-Flowmeter



Double-Flowmeter

Single-Flowmeter

DIN neutral or ISO 32 – other versions available on request



Probe connection



**Probe connection
with 50mm
extension⁽¹⁾**

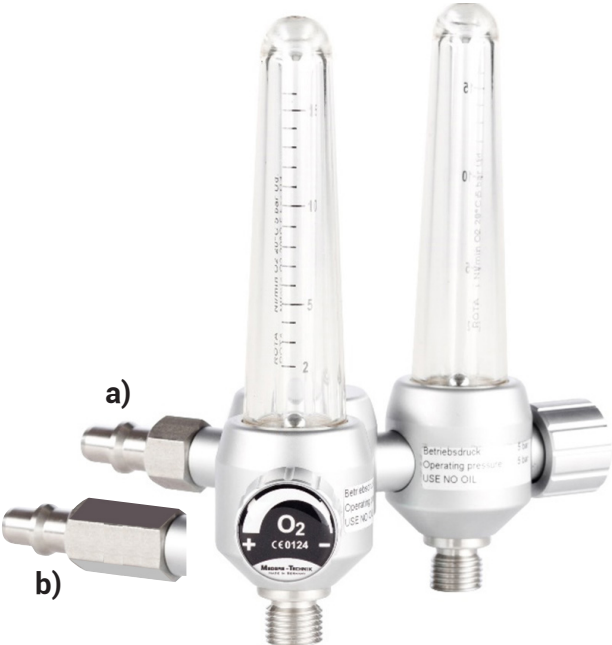


**Rail connection
with clamp⁽²⁾
for rail 25x10mm**

| | |
|-------------------------------------|---|
| Working pressure Medical Gas | 400 kPa -/+ 100 kPa (other pressures available) |
| Flow rate | 0-15 NI/min, 0,8-6,3 NI/min u. 4-34 NI/min |

Double-Flowmeter

DIN neutral or ISO 32 – other versions available on request



Probe connection:
a) without extension
b) with 50mm extension⁽¹⁾



Rail connection
with clamp⁽²⁾
for rail 25x10mm

| | |
|------------------------------|---|
| Working pressure Medical Gas | 400 kPa +/- 100 kPa (other pressures available) |
| Flow rate | 0-15 NI/min |

1) Other extension available on request
2) for rail 25x10mm. The connection hoses are in different sizes available. (see section 7 Probes and low-pressure hoses)
Technical Data is subject to change | Images are for illustration purposes only and may differ from the actual product.

Step-Flowmeter

DIN neutral or ISO 32 –
other versions available on request



Probe connection:
a) without extension
b) with 50mm extension⁽¹⁾



Rail connection
with clamp⁽²⁾
for rail 25x10mm

| | |
|------------------------------|---|
| Working pressure Medical Gas | 400 kPa +/- 100 kPa (other pressures available) |
| Flow rate | 1, 2, 3, 4, 5, 6, 9, 12 and 15 l/min |

1) Other extension available on request

2) for rail 25x10mm. The connection hoses are in different sizes available. (see section 7 Probes and low-pressure hoses)
Technical Data is subject to change | Images are for illustration purposes only and may differ from the actual product.

Accessories for Flowmeters

Connections and humidifier



| | |
|------------------------|--|
| Design: | Plastic housing, Bottle with 100 ml total volume made of PSU (sterilisable at 134°C / 18 min.) |
| Medium: | O ₂ and AIR |
| Input: | 9/16"-18 UNF (Female thread) |
| Output: | 6 mm hose nozzle |
| Humidification: | up to approx. 60% relative humidity and flows up to max. 10 l/min |

Spare parts for Flowmeters



Cylinder pressure reducers

Our medical all-metal cylinder pressure reducers lowers the cylinder pressure p1 of 200 bar of medical gases to a fixed back pressure p2 of 3.5 to 7 bar, adjustable at the factory.

The medical cylinder pressure reducers are intended for the withdrawal of oxygen (O₂), compressed air (Air5), nitrous oxide (N₂O), carbon dioxide (CO₂) and nitrogen (N₂).

There are different versions within the range available, e.g. reducers with medical terminal units according to DIN 13260-2 for connecting other medical gas devices. Other version are available with an integrated flowmeter or step-flowmeter for direct withdrawal.

Special variants are also available on request.

Cylinder pressure reducers

DIN neutral or ISO 32 – other versions available on request



with Flowmeter



with NIST -Connection



with Step-Flowmeter



with hose nozzle 6,3 mm



with K1 Terminal Unit
and Step-Flowmeter



with K1 Terminal Unit
without Step-Flowmeter

| | |
|-------------------|--|
| Cylinder pressure | 20.000 kPa |
| Back pressure | 500 kPa standard, other pressures from factory available |
| Flow rate | According to measuring tube or flow rate setting |

Spare parts for cylinder pressure reducers



Technical Data is subject to change | Images are for illustration purposes only and may differ from the actual product.





Vacuum regulator

Air Ejector

Medical vacuum suction devices

The medical vacuum regulators and ejectors are designed to regulate the vacuum suction pressure in medical applications.

The medical vacuum regulator is designed for connection to a vacuum terminal unit. The medical compressed air ejector is designed for connection to a medical air terminal unit and generates a vacuum at its outlet according to the venturi principle.

Versions are available with a gas specific probe connection to a terminal unit and with a rail clamp connection for mounting on an equipment rail with NIST fitting for connecting a low-pressure hose to the medical gas terminal unit.

Special versions are available on request.

Vacuum Regulator

DIN neutral or ISO 32 –
other versions available on request

| | |
|---------------------------------|-------------------|
| Working pressure Medical Gas | -800 kPa to 0 kPa |
| Permitted operating temperature | -20 to +60 °C |
| Permitted storage temperature | -20 to +60 °C |
| Max. flow rate | 0-40 l/min |



Collection jar 100 ml
Metal housing PSU Container
(sterilisable at 134°C / 18 Min.)



**Connection 9/16" UNF
with Ø8mm-hose nozzle**

Air Ejector

DIN neutral or ISO 32 –
other versions available on request

| | |
|---------------------------------|--------------------|
| Working pressure Air | -500 kPa |
| Generated Vacuum | -800 kPa to 0 kPa |
| Permitted operating temperature | -20 to +60 °C |
| Permitted storage temperature | -20 to +60 °C |
| Suction power | 20NI/min at -60kPa |



Collection jar 100 ml
Metal housing PSU Container
(sterilisable at 134°C / 18 Min.)



**Connection 9/16" UNF
with Ø8mm-hose nozzle**

Accessories for Medical Vacuum (1/2)

Collection jar 300 and 500 ml - other variants available on request



Collection jar 300 or 500 ml with cover
PSU container (sterilisable at 134°C / 18 Min.)

| | |
|-------------------------------|--|
| Max. filling volume | 300 ml or 500 ml; Overflow protection through overflow valve integrated in the lid |
| Permitted max. under pressure | -95 kPa / 5 Min. |
| Input | Female 9/16"-18 UNF |
| Output | 8 mm hose nozzle (eg. hose Ø 8 x 11, max 1,8m) |
| Max. performance | 60 L/min. ± 10 l/min. at -95 kPa (without bacterial filter) |



Cover with antibacterial filter
Made of polycarbonate and brass
(sterilisable at 121°C / 15 min.)



Cover without antibacterial filter
Made of polycarbonate and brass
(sterilisable at 121°C / 15 min.)

Accessories for Medical Vacuum (2/2)

Collection jar 1.000 – 3.000 ml - other variants available on request



Collection jar 1.000, 2.000 or 4.000 ml

All plastic parts are PSU (sterilisable at 134°C / 18 Min.)
Container 1.000 and 2.000 ml with screw cover container 4.000 ml plug cover

| | |
|-------------------------------|--|
| Max. filling volume | 1.000 ml, 2.000 or 4.000 ml; overflow protection through overflow valve integrated in the lid |
| Permitted max. under pressure | -95 kPa / 5 Min. |
| Input | 8 mm hose nozzle (eg. hose Ø 8 x 11, max 1,5m), 2x right-angled adapters included in the scope of delivery |
| Output | 8 mm hose nozzle (eg. Hose Ø 8 x 11, max 1,8m), 2x right-angled adapters included in the scope of delivery |
| Max. performance | 60 L/min. ± 10 l/min. at -95 kPa |



Holder for hanging
a 1.000 ml container



Holder for hanging
a 2.000 ml container



Holder for hanging
a 4.000 ml container

Y-distributor

Our Y-distributors allow the connection of two or three devices at a maximum of two to one gas tapping point for medical gases. The user must ensure that the total withdrawn flow rate of the 2 or 3 terminal units does not exceed the capacity of the original terminal unit to which the distributor is connected.

Versions are available with a gas specific probe connection to the medical gas terminal unit as well as with a clamp connection for mounting on an equipment rail with a NIST fitting to connect a low pressure hose to the medical gas terminal unit.

Y-distributor

DIN neutral or ISO 32



**Y-distributor with
Probe connection**



**Y-distributor Rail
clamp connection**

Probes and low pressure hoses

Our probes are fully made of metal to match the robustness of the terminal units. The terminal unit connection is made of stainless steel and the probe's surface is finished with a matt chrome coating. The plugging in and out as well as the unlocking of the probe is supported by a haptic design and a balanced weight.

The low-pressure hoses are used to connect medical compressed gas or vacuum sources and consumers. On the terminal unit side, the hose is equipped with a gas-specific probe and on the consumer side with a gas-specific NIST fitting.

The hoses are available in five standard lengths. Other variants are available on request.



Probes

DIN neutral or ISO 32



| | |
|----------------|--|
| Design: | Matt chrome-plated all-metal brass housing |
| Input: | Stainless steel connector front part according to DIN 13260-2 (for pressurized gases with non-return valve) |
| Output: | Hose nozzle, suitable for hose with inner Ø 6.7 mm |

Technical Data is subject to change | Images are for illustration purposes only and may differ from the actual product.



Low-pressure hoses

DIN neutral or ISO 32 –
other versions available on request

| | |
|----------------------------------|--|
| Input | Rotatable probe without filter, stainless steel connector front part according to DIN 13260-2 |
| Fabric Hose | High-strength, flexible fabric hose for medical gases: - REACH- and RoHS-compliant; free from polycyclic aromatic hydrocarbons - Inner-Ø 6.7 mm, outer-Ø 12.7 mm, usable from -20 °C to +65 °C - Labelling and colours according to DIN EN ISO 5359 |
| Press sleeve medical hose | Stainless steel, with marking according to DIN EN ISO 5359 |
| Output | NIST connection according to DIN EN ISO 18082 |

Hoses for medical applications

Our medical low-pressure hoses are used to connect medical compressed gas or vacuum sources and consumers. The high-quality materials guarantee long durability. They meet the strict requirements of EN ISO 5359.

With the help of our connector plugs and NIST connectors, individual lengths can be created. The hoses are available in 50m rolls in DIN neutral and ISO 32 for the most common medical gases.

Hoses for other gas types are available on request.



**DIN neutral or ISO 32 –
other versions available on request**



MEDGAS-Technik Medical Technology GmbH

Lahnstrasse 8 | D-56370 Berndroth | Germany
Phone +49 (0)6486 90496-0
info.de@medgas-technik.com | www.medgas-technik.de

MEDGAS-Technik medical systems GmbH

Gries 60 | A-9909 | Leisach Austria
Phone +43 (0)4852 66665
info.at@medgas-technik.com | www.medgas-technik.at

MEDGAS-Technik Schweiz AG

Industriestrasse 26 | CH-9300 Wittenbach | Schweiz
Phone +41(0) 71 780144-2
info.ch@medgas-technik.com | www.medgas-technik.ch



www.medgas-technik.de

© MedgasTechnik November 2023. 4233601690

All rights reserved. Designs and specifications are subject to change without notice or obligation.