SENAMED
Teknik ve Tıbbi Sistemler San. ve Tic. A.Ş.




# LOTUS

## Medical Gas Outlets

Lotus combines a durable ABS construction with lightweight design, enabling fast installation and reduced installation time to streamline project implementation.

Available in **DIN and BS** standard configurations, it integrates seamlessly with a wide range of medical gas systems, including bed head units, intensive care units, pendant systems, and wall-mounted installations.

With its broad system compatibility and lightweight, installation-friendly design, Lotus offers a practical solution for efficient installation.

Lightweight Design. Practical Solution.




## LOTUS Medical Gas Outlets

Durable ABS construction delivers lightweight performance with corrosion resistance and easy maintenance.

Its practical design supports fast installation and efficient on-site applications.

**Lightweight Design**
ABS Plastic Construction

**DIN & BS Compatible**
International Standard Compliance

**Cost-Effective Solution**
Efficient Project Implementation

**Gas-Specific Indexing**
Error-Proof Gas Connection

**Fast Installation**
Efficient Installation Process

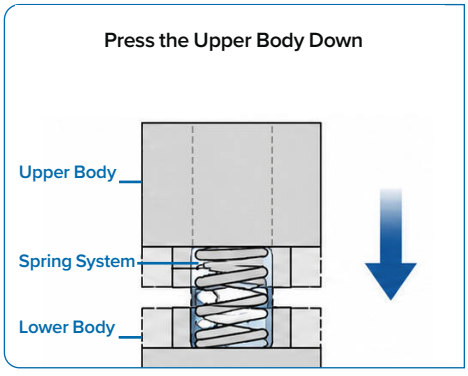
**Color-Coded ABS Design**
Clear Gas Identification

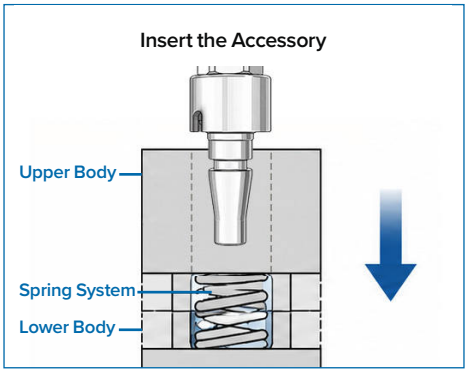
# Spring-Loaded Locking Mechanism

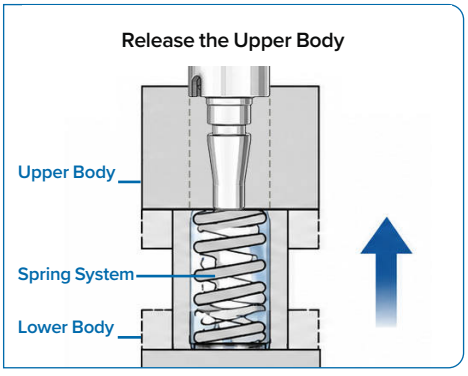
The outlet system features a spring-loaded locking mechanism integrated into the aluminum housing. During connection, the housing is pressed downward to engage the accessory, then returns and locks it in place.

This prevents accidental disconnection and ensures secure operation. Removal is only possible by pressing the housing again.



# Compatible Products

The gas outlet system supports a wide range of medical gas accessories, ensuring safe connection and flexible use across different applications.



## **Flowmeter** Group

Controlled oxygen and air flow with humidifiers.



## **Aspiration** Group

Controlled vacuum systems for fluid and gas removal in clinical use.



## Gas **Probes & Manometer** Valves

Gas-specific probes for secure medical gas connections. (DIN&BS)



## **Multiple** Gas Outlets

Simultaneous gas use from a single outlet.



*** For detailed information, please refer to the relevant catalogs in our Medical Gas Accessories product range.*

# Configurations & Product Comparison

Medical gas outlets are available in a wide range of gas and inlet connection configurations to meet different installation requirements and international standards.

Standard BS and DIN configurations are available, while additional gas options can be provided upon request.

## LOTUS – DIN Configurations

**DIN 13260-2 – EN 9170-1**














| Outlet Type | $O_2$ | $N_2O$ | MA4 | SA7 | VAC | $CO_2$ |
|---|---|---|---|---|---|---|
| Pipe 45° | MGO.LTS.A0001.01 | MGO.LTS.A0001.02 | MGO.LTS.A0001.03 | MGO.LTS.A0001.04 | MGO.LTS.A0001.05 | MGO.LTS.A0001.06 |
| Hose 45° | MGO.LTS.A0001.11 | MGO.LTS.A0001.12 | MGO.LTS.A0001.13 | MGO.LTS.A0001.14 | MGO.LTS.A0001.15 | MGO.LTS.A0001.16 |
| Pneumatic 45° | MGO.LTS.A0001.31 | MGO.LTS.A0001.32 | MGO.LTS.A0001.33 | MGO.LTS.A0001.34 | MGO.LTS.A0001.35 | MGO.LTS.A0001.36 |
| Pipe 90° | MGO.LTS.A0001.41 | MGO.LTS.A0001.42 | MGO.LTS.A0001.43 | MGO.LTS.A0001.44 | MGO.LTS.A0001.45 | MGO.LTS.A0001.46 |
| Hose 90° | MGO.LTS.A0001.51 | MGO.LTS.A0001.52 | MGO.LTS.A0001.53 | MGO.LTS.A0001.54 | MGO.LTS.A0001.55 | MGO.LTS.A0001.56 |
| Pneumatic 90° | MGO.LTS.A0001.71 | MGO.LTS.A0001.72 | MGO.LTS.A0001.73 | MGO.SFR.A0031.74 | MGO.LTS.A0001.75 | MGO.LTS.A0001.76 |

## LOTUS – BS Configurations

**BS 5682 – ISO 9170-1**














| Outlet Type | $O_2$ | $N_2O$ | MA4 | SA7 | VAC | $CO_2$ |
|---|---|---|---|---|---|---|
| Pipe 45° | MGO.LTS.A0002.01 | MGO.LTS.A0002.02 | MGO.LTS.A0002.03 | MGO.LTS.A0002.04 | MGO.LTS.A0002.05 | MGO.LTS.A0002.06 |
| Hose 45° | MGO.LTS.A0002.11 | MGO.LTS.A0002.12 | MGO.LTS.A0002.13 | MGO.LTS.A0002.14 | MGO.LTS.A0002.15 | MGO.LTS.A0002.16 |
| Pneumatic 45° | MGO.LTS.A0002.31 | MGO.LTS.A0002.32 | MGO.LTS.A0002.33 | MGO.LTS.A0002.34 | MGO.LTS.A0002.35 | MGO.LTS.A0002.36 |
| Pipe 90° | MGO.LTS.A0002.41 | MGO.LTS.A0002.42 | MGO.LTS.A0002.43 | MGO.LTS.A0002.44 | MGO.LTS.A0002.45 | MGO.LTS.A0002.46 |
| Hose 90° | MGO.LTS.A0002.51 | MGO.LTS.A0002.52 | MGO.LTS.A0002.53 | MGO.LTS.A0002.54 | MGO.LTS.A0002.55 | MGO.LTS.A0002.56 |
| Pneumatic 90° | MGO.LTS.A0002.71 | MGO.LTS.A0002.72 | MGO.LTS.A0002.73 | MGO.LTS.A0002.74 | MGO.LTS.A0002.75 | MGO.LTS.A0002.76 |

## PRODUCT COMPARISON

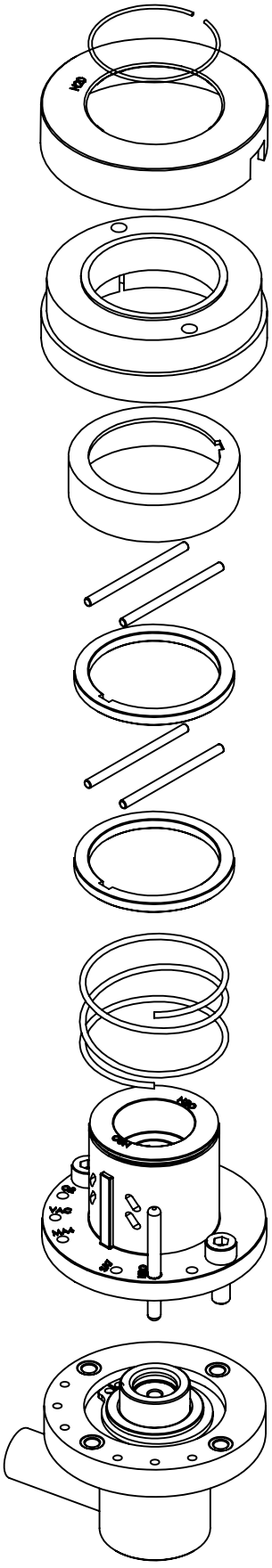
| Series | Construction | Standards | Diameter | Highlights |
|---|---|---|---|---|
| **LOTUS** | All-Plastic Construction | DIN / BS | Ø50 | Lightweight & Economical |
| **TULIPA** | Metal Core with Plastic Cover | DIN / BS | Ø60,5 | Hybrid Construction |
| **NF Series** | Metal Core with Plastic Cover | NF | Ø58 | NF Compliant Hybrid Construction |
| **VIOLA** | All-Metal Construction | DIN / BS | Ø40 | Space-Efficient |
| **SAFRAN** | All-Metal Construction | DIN / BS | Ø50 | Maximum Durability |

Technical specifications may change without prior notice. The images are provided as examples and may vary depending on the model.

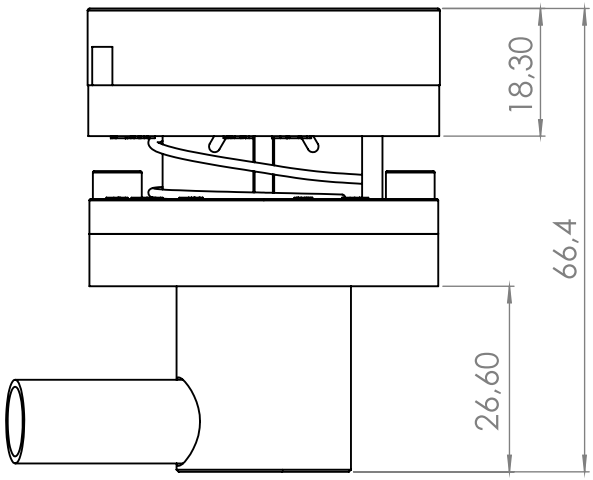
| MODEL | LOTUS |
|---|---|
| **General Features** | |
| Compliance | BS - DIN |
| Operating Temperature | 0–50 °C |
| Relative Humidity | 30–85 % |
| Medical Gases | $O_2$ – $N_2O$ – MA4 – SA7 – VAC – $CO_2$ |
| Working Pressure | 4-5 bar (Breathing Gases)<br>7-10 bar (Instrument Gases)<br>(-0,4)–(-0,9) bar (Vacuum) |
| Max. Inlet Pressure | 10 bar |
| **Mechanical Features** | |
| Upper Body | ABS Plastic |
| Lower Body | ABS Plastic |
| Internal Components | Brass |
| Gas Indexing System | ABS Plastic |
| Locking Mechanism | Spring-Loaded Mechanism |
| Safety Feature | Two-Part Design ensures no gas leakage during maintenance |
| Gas Identification Label | International Color Coding |
| **Installation Details** | |
| Installation Height | 900–1600 mm |
| Minimum Spacing (2 Outlets) | 150 mm (center to center) |
| Minimum Spacing (3+ Outlets) | 135 mm (center to center) |
| Mounting Direction | Left to Right |
| Mounting Order | $O_2$ – $N_2O$ – MA4 – SA7 – VAC – $CO_2$ |
| **Dimensions** | |
| Upper Body Diameter | Ø50 mm |
| Lower Body Diameter | Ø50 mm |
| Copper Pipe Diameter | 8 - 10 - 12 mm |
| **Standards** | |
| Quality Standards | EN ISO 13485:2016 – EN ISO 9001:2015 |
| Management Standards | EN ISO 13485:2016 – EN ISO 9001:2015 – EN 1041 + A1:2011<br>EN ISO 14971:2012 – IEC 62366-1:2015 – EN ISO 15223-1:2016 |
| Leaking Tests | EN ISO 10524-1 /-2 /-3 – EN ISO 9170-1:2008 |
| Medical Gas Standards | HTM-02-01 – EN ISO 7396-1:2016 – EN ISO 5359<br>EN ISO 7396-1:2016 – EN ISO 7396-2:2007– EN ISO 11197:2020<br>EN ISO 9170-1:2008 – EN 10524-1:2019 – EN ISO 10524-2:2019<br>EN ISO 10524-3 – EN ISO 5359 – EN ISO 10079-3 |

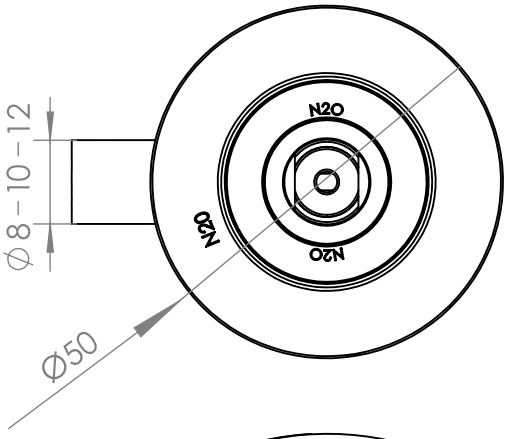
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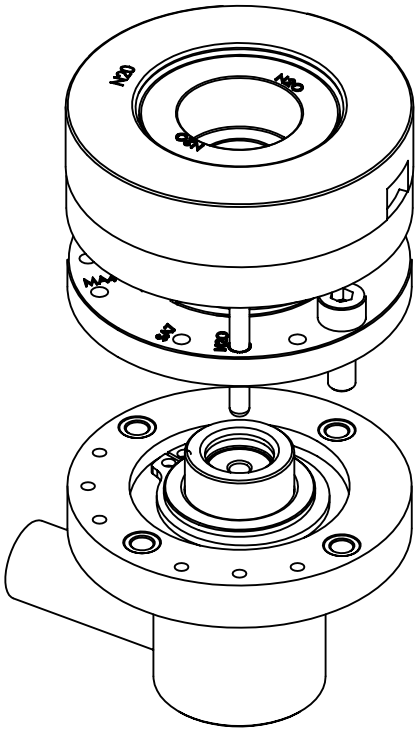
## PRODUCT STRUCTURE



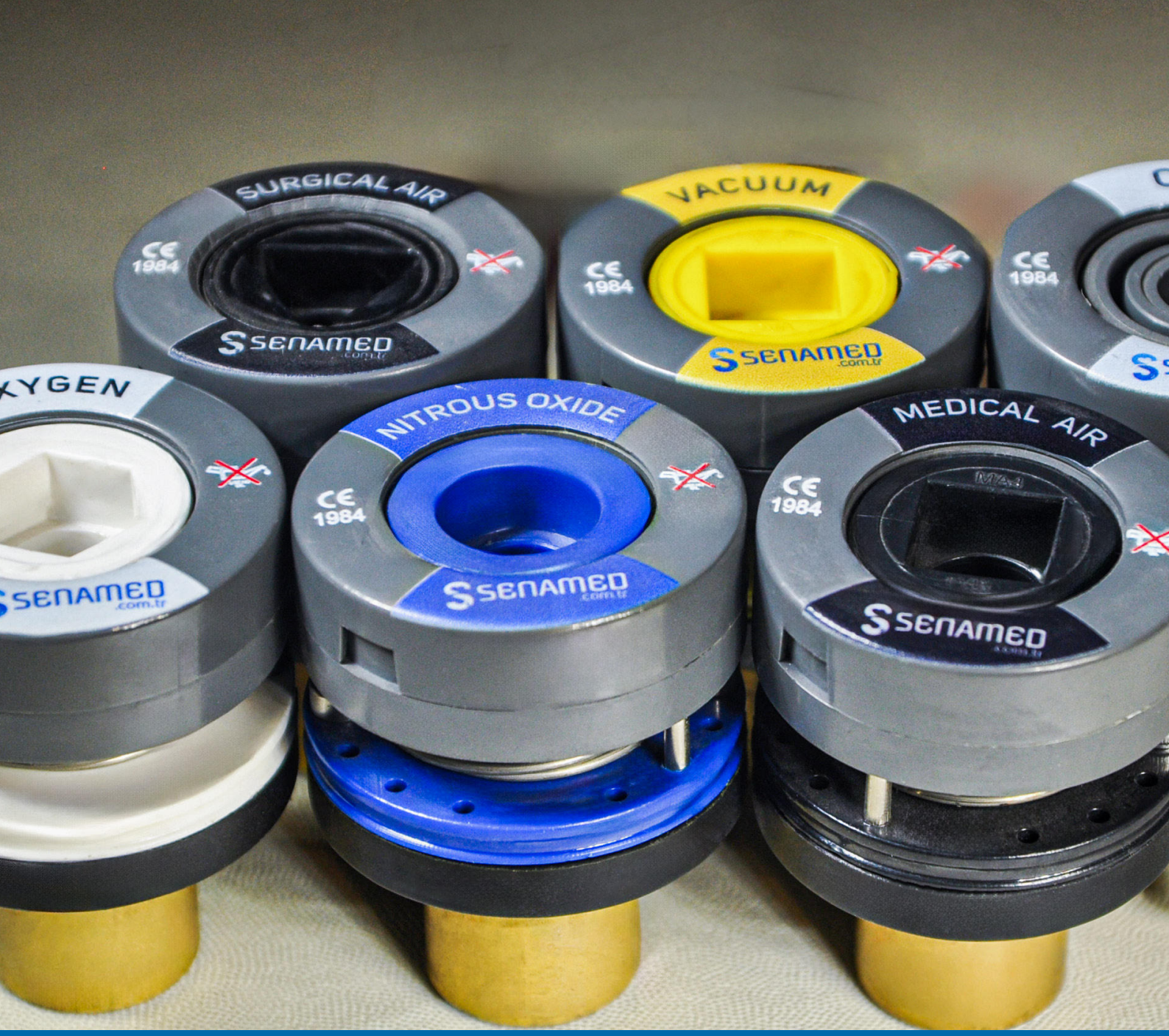

## TECHNICAL DRAWINGS



Other gas configurations share similar design principles.
Technical specifications are subject to change without prior notice. Images are for illustrative purposes only and may vary by model.




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## CONTACT

+90 533 771 92 03
www.senamed.com.tr
sales@senamed.com.tr
linkedin.com/company/senamedtr/
Köşklü Çeşme Mh. Yeni Bağdat Cd. No:126 Gebze / Kocaeli / TÜRKİYE