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



TULIPA

Medical Gas Outlets

Tulipa combines a corrosion-resistant brass mechanism with a durable ABS front cover in a hybrid design, providing long-lasting performance.

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

Combining broad system compatibility, a robust internal mechanism, and a long service life, Tulipa delivers consistent performance and dependable operation throughout its service life.

Smart Design. Balanced Performance.



TULIPA Medical Gas Outlet

A corrosion-resistant brass mechanism and durable ABS front cover create a lightweight balanced construction.

Its hybrid design combines practical usability with consistent performance.

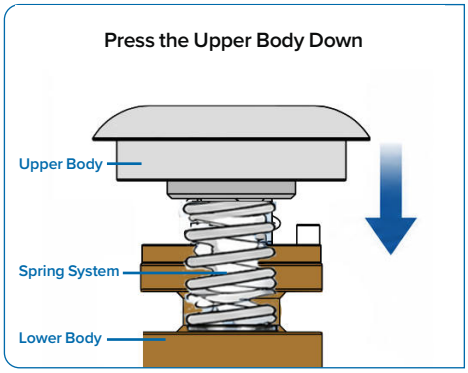
- **Hybrid Design**
  Metal Structure, ABS Cover
- **DIN & BS Compatible**
  International Standard Compliance
- **Corrosion Resistance**
  Durable Brass Construction
- **Gas-Specific Indexing**
  Error-Proof Gas Connection
- **Long Service Life**
  Extended Operational Durability
- **Color-Coded ABS Design**
  Easy Identification

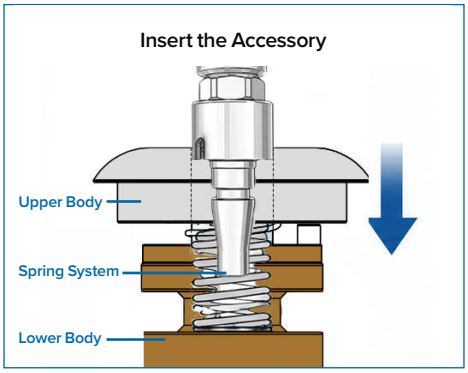
Spring-Loaded Locking Mechanism

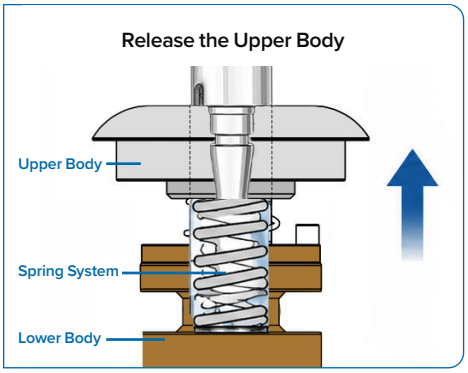
The outlet system features a spring-loaded locking mechanism integrated into the aluminum housing. During connection, the housing is pressed downward to engage the accessory, then returns and locks it in place.

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.

TULIPA – DIN Configurations

DIN 13260-2 – EN 9170-1















Outlet Type	O_2	N_2O	MA4	SA7	VAC	CO_2	N_2
Pipe 45°	MGO.TLP.A0011.01	MGO.TLP.A0011.02	MGO.TLP.A0011.03	MGO.TLP.A0011.04	MGO.TLP.A0011.05	MGO.TLP.A0011.06	MGO.TLP.A0011.07
Hose 45°	MGO.TLP.A0011.11	MGO.TLP.A0011.12	MGO.TLP.A0011.13	MGO.TLP.A0011.14	MGO.TLP.A0011.15	MGO.TLP.A0011.16	MGO.TLP.A0011.17
Pneumatic 45°	MGO.TLP.A0011.31	MGO.TLP.A0011.32	MGO.TLP.A0011.33	MGO.TLP.A0011.34	MGO.TLP.A0011.35	MGO.TLP.A0011.36	MGO.TLP.A0011.37
Pipe 90°	MGO.TLP.A0011.41	MGO.TLP.A0011.42	MGO.TLP.A0011.43	MGO.TLP.A0011.44	MGO.TLP.A0011.45	MGO.TLP.A0011.46	MGO.TLP.A0011.47
Hose 90°	MGO.TLP.A0011.51	MGO.TLP.A0011.52	MGO.TLP.A0011.53	MGO.TLP.A0011.54	MGO.TLP.A0011.55	MGO.TLP.A0011.56	MGO.TLP.A0011.57
Pneumatic 90°	MGO.TLP.A0011.71	MGO.TLP.A0011.72	MGO.TLP.A0011.73	MGO.TLP.A0011.74	MGO.TLP.A0011.75	MGO.TLP.A0011.76	MGO.TLP.A0011.77

TULIPA – BS Configurations

BS 5682 – ISO 9170-1













Outlet Type	O_2	N_2O	MA4	SA7	VAC	CO_2
Pipe 45°	MGO.TLP.A0012.01	MGO.TLP.A0012.02	MGO.TLP.A0012.03	MGO.TLP.A0012.04	MGO.TLP.A0012.05	MGO.TLP.A0012.06
Hose 45°	MGO.TLP.A0012.11	MGO.TLP.A0012.12	MGO.TLP.A0012.13	MGO.TLP.A0012.14	MGO.TLP.A0012.15	MGO.TLP.A0012.16
Pneumatic 45°	MGO.TLP.A0012.31	MGO.TLP.A0012.32	MGO.TLP.A0012.33	MGO.TLP.A0012.34	MGO.TLP.A0012.35	MGO.TLP.A0012.36
Pipe 90°	MGO.TLP.A0012.41	MGO.TLP.A0012.42	MGO.TLP.A0012.43	MGO.TLP.A0012.44	MGO.TLP.A0012.45	MGO.TLP.A0012.46
Hose 90°	MGO.TLP.A0012.51	MGO.TLP.A0012.52	MGO.TLP.A0012.53	MGO.TLP.A0012.54	MGO.TLP.A0012.55	MGO.TLP.A0012.56
Pneumatic 90°	MGO.TLP.A0012.71	MGO.TLP.A0012.72	MGO.TLP.A0012.73	MGO.TLP.A0012.74	MGO.TLP.A0012.75	MGO.TLP.A0012.76

PRODUCT COMPARISON

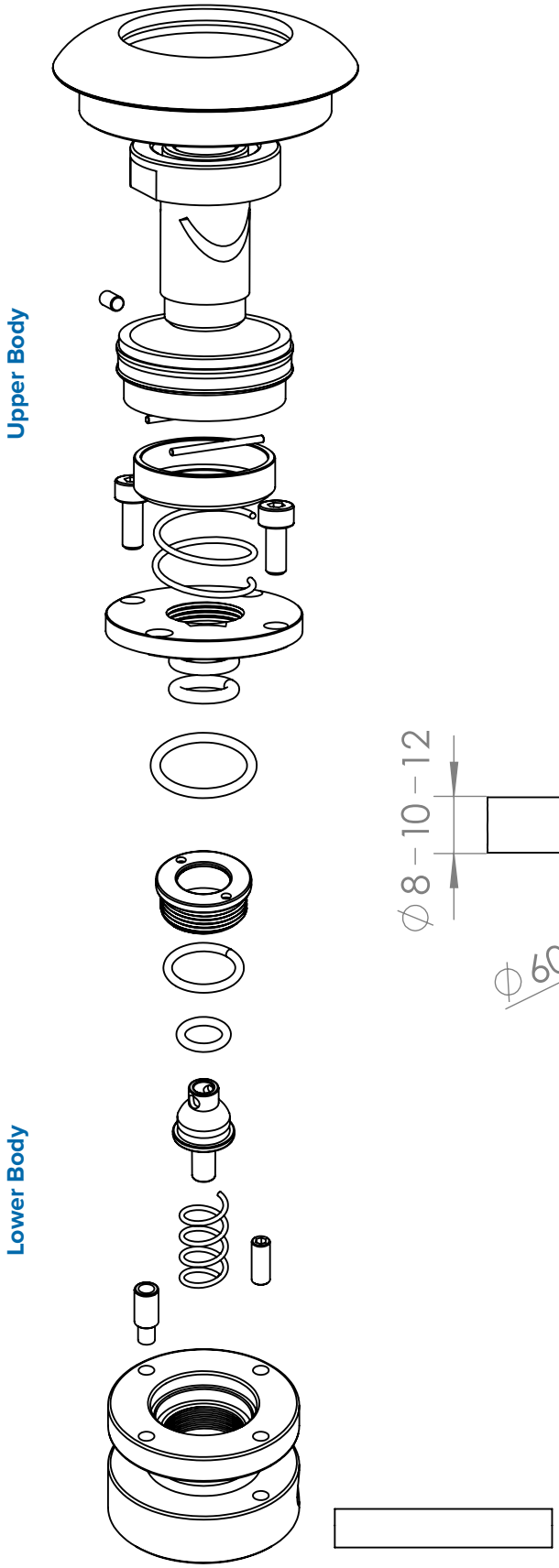
Series	Construction	Standards	Diameter	Highlights
LOTUS	All-Plastic Construction	DIN / BS	Ø50	Lightweight & Economical
TULIPA	Metal Core with Plastic Cover	DIN / BS	Ø60,5	Hybrid Construction
NF Series	Metal Core with Plastic Cover	NF	Ø58	NF Compliant Hybrid Construction
VIOLA	All-Metal Construction	DIN / 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.

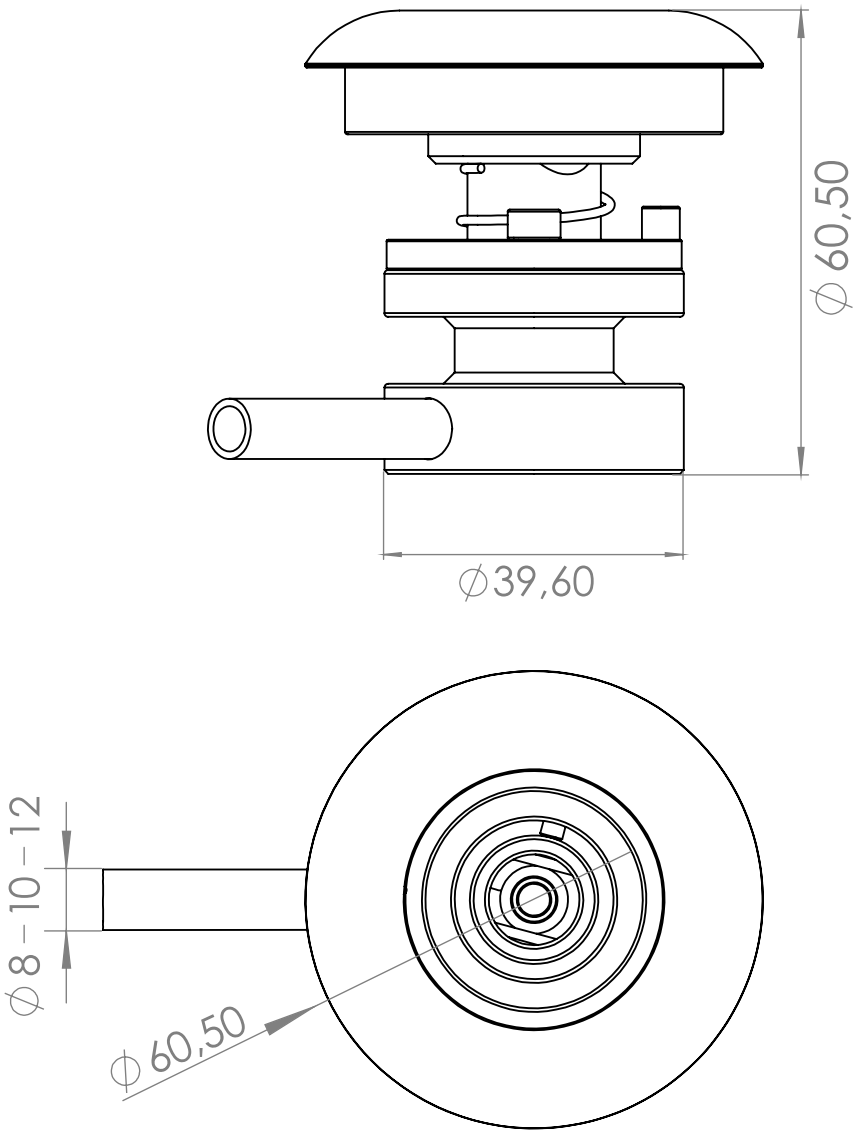
MODEL	TULIPA
General Features	
Compliance	BS - DIN
Operating Temperature	0–50 °C
Relative Humidity	30–85 %
Medical Gases	O_2 – N_2O – MA4 – SA7 – VAC – CO_2 – N_2
Working Pressure	4-5 bar (Breathing Gases) 7-10 bar (Instrument Gases) (-0,4)–(-0,9) bar (Vacuum)
Max. Inlet Pressure	10 bar
Mechanical Features	
Upper Body	ABS Plastic
Lower Body	Brass
Internal Components	Brass
Gas Indexing System	Cr-Plated Brass
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 –N_2
Dimensions	
Upper Body Diameter	Ø60.50 mm
Lower Body Diameter	Ø39.60 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 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 EN ISO 7396-1:2016 – EN ISO 7396-2:2007– EN ISO 11197:2020 EN ISO 9170-1:2008 – EN 10524-1:2019 – EN ISO 10524-2:2019 EN ISO 10524-3 – EN ISO 5359 – EN ISO 10079-3

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

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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