

Instruction manual

MEGASY
medical gas systems

CE
0476  **FB**
93/42/EEC

- **Outlet** (terminal units:EN ISO 9170-1)
 - MD-O-BS-O, A, V, T, H, C, N** (BS 5682:2015)
 - MD-O-DN-O, A, V, T, H** (DIN 13260-2)

This instruction manual contains **IMPORTANT WARNINGS, CAUTIONS and INSTRUCTIONS.**
Read and understand this instruction manual before use and retain for reference.

Introduction

Important information - Safety precautions

Be sure to read and understand this instruction manual. The operator shall be fully conversant with the requirements stated within this instruction manual including important warnings, cautions and operation. Improper use may result in death / serious injury or cause damage to equipment, property or patients.

All information in this manual is only for ANEST IWATA Outlets.

ANEST IWATA Outlets will be handled in accordance with this manual when operated.

The Outlets must be checked periodically. If there are some parts that are broken, missing, worn, distorted or contaminated, please contact ANEST IWATA or their distributors.

ANEST IWATA Outlets should not be repaired or altered. All warranty on the Outlets will be void upon any such actions attempted by the customers.






Keep this manual in an appropriate place for immediate reference.


◆ Safety guidelines


- Safety guidelines in this manual describe the minimum necessary information. Be sure to follow national and local regulations on fire prevention, electricity and safety as well as your own corporate regulations.
- Items indicated WARNING or CAUTION are very important for your safety.
- To help recognize this information, observe the following symbols.

Signs for WARNINGS and CAUTIONS

 WARNING	Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or loss of life.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

 WARNING
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 Maintenance	Risk of gas leaking Be sure to conduct maintenance. If not, it may cause leaking of medical gas or stopping of the gas service to patients
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 CAUTION
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 Plugging	Risk of plug popping out, gas service suspension. Make sure that the adapter plug of the secondary equipment is connected securely to the Medical Gas Outlet (there should be a clicking sound). It may cause the adapter plug to pop out and / or the gas service to be suspended	 Damaged	Risk of plug popping out, gas service suspension. In case any damage or defect is found in any part of the connected equipment, do not use it. It may cause the adapter plug to pop out and / or the gas service to be suspended
 Over tighten	Risk of distortion. Make sure to not over tighten the mounting screws. When installing the "Latch valve assembly". It may cause distortion of the latch valve assembly.	 Damaged	Risk of plug popping out, gas service suspension. In case any damage or defect is found in any part of the connected equipment, do not use it. It may cause the adapter plug to pop out and / or the gas service to be suspended

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1. Description

1-1. General description

ANEST IWATA Outlets

- Comply with EN ISO9170-1 and DIN13260-2/ BS5682(HTM2022 and HTM02-01).
- CE marked under the medical devices directive 93/42/EEC (class IIb).
- Composed of three items: Release sleeve, Socket and Base-block.

(Refer to chapter3).

1-2. Transport, storage and operating condition

Please keep ANEST IWATA Outlets in transport, storage and operation under the following conditions.

- Temperatures : -20~+60°C
- Humidity: 10~90 %
- Atmospheric pressure: 700~1060 hPa
- No any surrounding toxic gases (solvent vapor, corrosive gas, etc...).
- Do not put heavy items on the carton box of ANEST IWATA Outlets.

2. Before use

2-1. Check the product

- ✓ Check the Rating name plate label (Refer to 2-2) of the products to ensure that it is exactly what you have ordered. Please do not use for different gas types.

- ✓ Meaning of the model number

MD-O-□□-□

Kind of gas	Symbol	Working pressure
Oxygen	O	320~600kPa
Medical Air	A	
Nitrous Oxide	T	
Carbon dioxide	C^(*)	560~1200kPa
Air-800	H	
Nitrogen	N^(*)	
Vacuum	V	-10~-60kPa

(*):only BS type are available.

Type of Socket	Symbol
BS 5682	BS
DIN 13260-2	DN

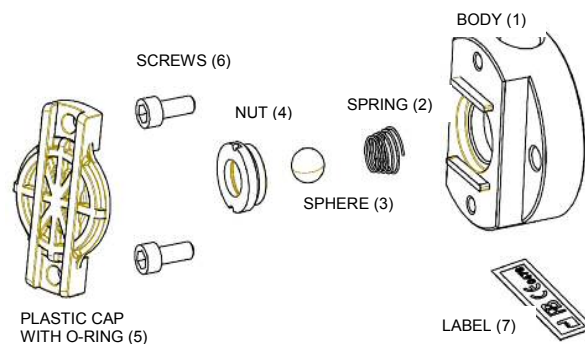
- ✓ **Check for any shipping damage**
Inspect carefully for any damage that may have occurred during transportation. If there was any damage, please contact ANEST IWATA or their distributors.
- ✓ **Check the components**
ANEST IWATA Outlets consists of 3 components: Release sleeve, Socket and Base-block.
(Refer to chapter 3)

3. Installation

3-1. Base-block

- braze-weld the base block to the supply copper pipe, according to the standards of good practice (e.g. absence of oxides on the surfaces to be welded, silver solder, quenching without thermal shocks, etc.) and apply the ultra-destructible label for the identification of the product;

- clean the line with nitrogen;



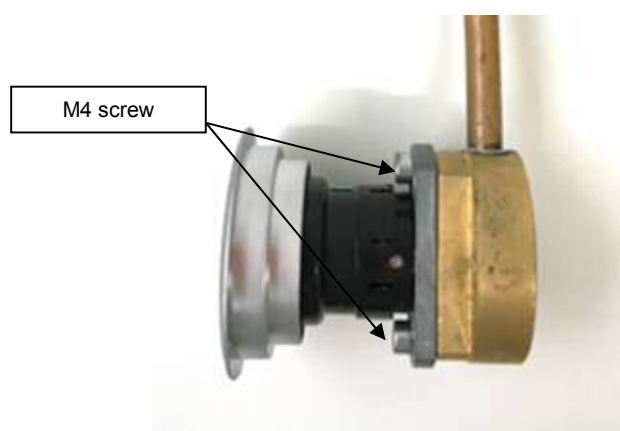
- connect the base block to the wall, using suitable screws and an adequate box;
assemble into the body (1) of the base block, the maintenance valve supplied in a separate plastic bag, first putting the spring (2) inside the body (1), then placing the sphere (3) on the nut (4) and finally tightening the nut (4) onto the body (1) with a wrench (not required for base blocks for vacuum);
- apply the label (7) on the body (1) for its identification;
- seal the base block for the tightness test, with the supplied plastic cap with O-ring (5) fixing it with the supplied screws (6).

3-2. Socket and release sleeve



Perform the following operations in succession:

- align the 2 fixing holes I/D 4,5 mm (1) with the 2 females M4 threaded of the base block;
- fix the socket onto the base block tightening at the same time the 2-M4 screws (supplied with the base block) with an Allen wrench (Hexagon socket screw keys);



- fix the release sleeve (2) onto the socket;
- Turn the release sleeve (2) in the right position, it is possible turn 90° in 90°;
- apply the red label "NOT OPERATIVE", taking it away only when all final tests of the system have been performed.

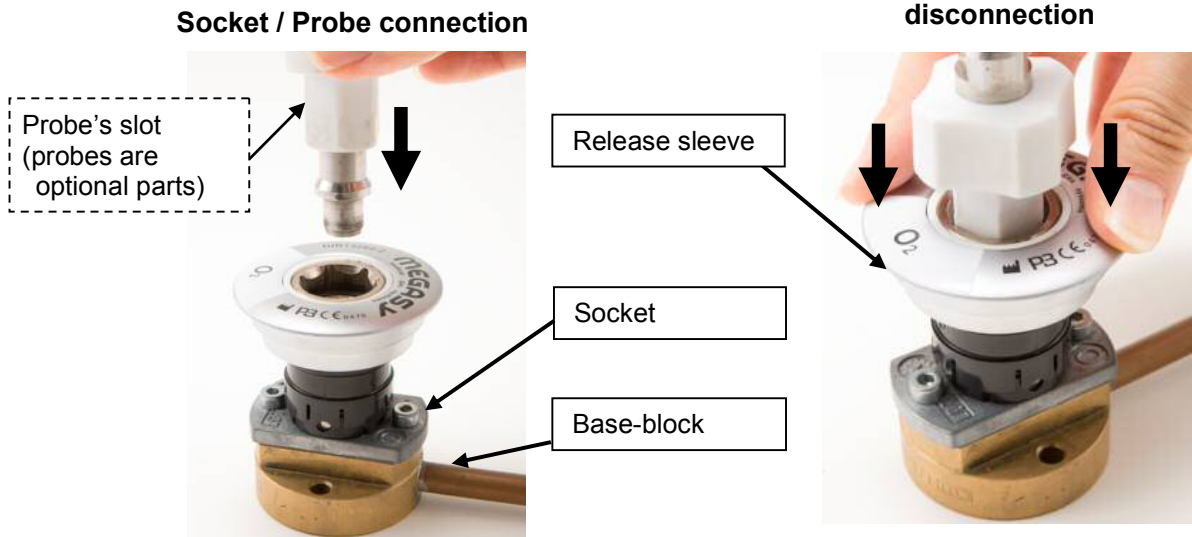
3-3. Verification

- Once installation is completed, verify the tightness: no leakages are allowed. Afterwards testing required by EN ISO 7396-1 standard must be run.

4. Operation



Before use, personnel must familiarize with the control devices and their operation.



If the medical device is out of order or in maintenance, disconnect the gas supply and place a visible sign stating "NOT IN SERVICE. DO NOT USE".





1. Verify that the socket and the probe are designed for the same gas and that they refer to the same standard;
2. Grasp the probe and turn it aligning the slot with the corresponding profile of the socket;
3. Insert the probe into the socket with enough force to oppose the upstream pressure, until the release sleeve of the socket clicks into place;
4. Release the probe verifying that it remains anchored into the socket.

1. Keep the probe, in order to prevent its quick projection;
2. Push the release sleeve of the socket, towards the base block.

 CAUTION	
<p>Risk of probe popping out, gas service suspension. Make sure that the probe of the secondary equipment is connected securely to the Medical Gas Outlet (there should be a clicking sound). It may cause the probe to pop out and / or the gas service to be suspended</p>	 Unplugging

 CAUTION	
<p>Risk of probe popping out, gas service suspension. In case any damage or defect is found in any part of the connected equipment, do not use it. It may cause the probe to pop out and / or the gas service to be suspended</p>	 Damaged

5. Maintenance

 WARNING	
Risk of gas leaking Be sure to conduct maintenance. If not, it may cause leaking of medical gas or stopping of the gas service to patients	 Maintenance

5-1. Daily maintenance

- ◆ Please keep the Outlets and plobe of the secondary equipment clean.
For cleaning use only distilled water or diluted ethyl alcohol.
- ◆ Check the following every time you use the equipment.

5-2. Periodic maintenance

The maintenance program must envisage a minimum of biannual inspections with particular reference to:

- easy coupling and disconnection;
- wear or damage;
- contamination;
- marking – labelling;
- tightness;
- flow rate according to EN ISO 7396-1.

These operations must be recorded.

5-3. Maintenance kits

Components	Maintenance kits
BS socket	9VGTBS-OR-RIC
DN socket	9VGTD-OR-RIC (for all gases except Vacuum); 9VGTD-OR-V-RIC (only for Vacuum).
Base block	9ZARMOR/VNR (common; all sockets/gas type)

Once maintenance is completed, testing required by EN ISO 7396-1 standard must be run again

6. Disposal

Please comply with local laws.

7. Warranty



Please refer to the attached sheet.



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