

# INHALO<sup>®</sup>

Integrated delivery of therapeutic gas

Step by step

Operating guidelines

lighter  
safer  
robust  
reliable

BOC: Living healthcare

 **BOC**  
A Member of The Linde Group





## Summary

The product label is fixed to the cylinder collar and contains information such as gas code, UN number, cylinder size, cylinder contents, cylinder capacity, safe handling notes, and safety precautions relating to the gas contents.

- 1 Check product label to ensure you have the correct gas.



Always use the label as the primary means of identification.

- 2 Check there is sufficient contents for your requirements.



## Summary

The contents gauge is easy to read and provides a clear indication of when the cylinder is full (green zone), in between (1/4, 1/2, 3/4), or when you should consider changing (red zone). The gauge is live at all times which saves time and wasted gas when checking the cylinder contents.



3 Turn flow selector to zero.

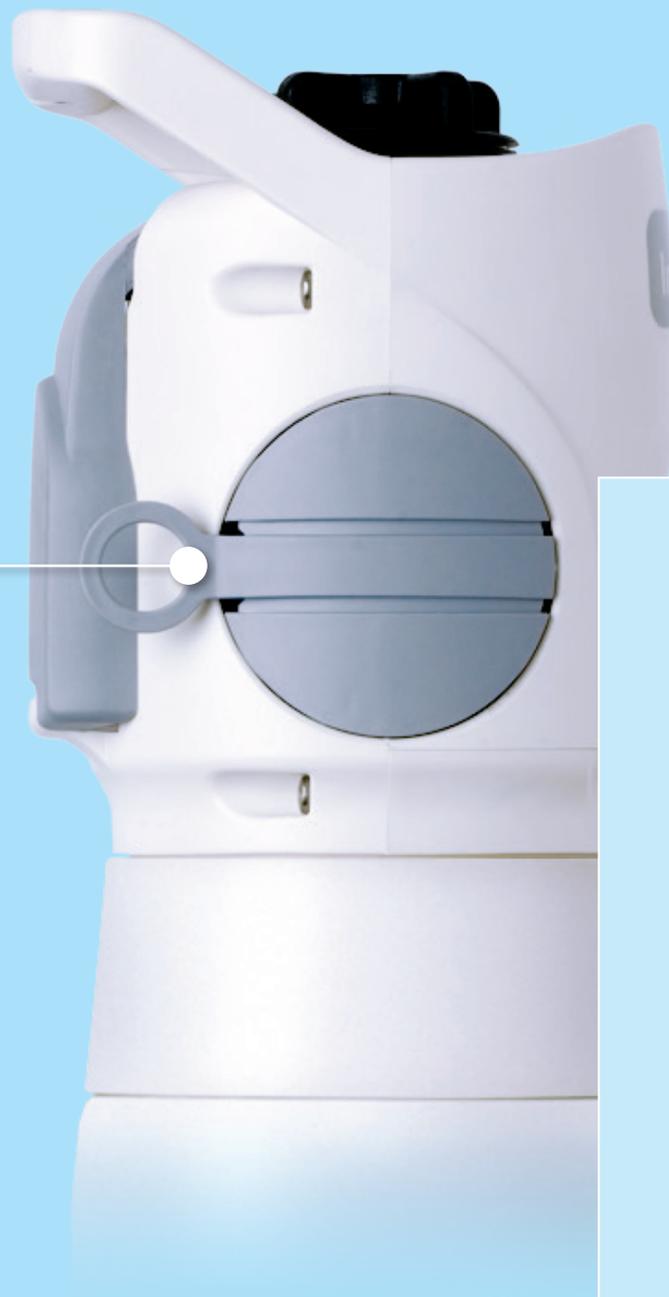


## Summary

The flow selector knob is designed for maximum grip and ease of use, it is used in conjunction with the firtree outlet **6** and the OPEN/CLOSE hand wheel **8** to deliver variable gas flow (0 – 15 lpm). The flow indicator window rotates clockwise to select higher flow settings, and in reverse for lower settings and to return to zero.

When not in use or before opening the cylinder for the first time the flow selector should be set to zero.

- 4 Remove the light grey tamper evident seal.



## Summary

The tamper evident seal ensures quality, and when removed provides access to the OPEN/CLOSE hand wheel. Grasp the pull ring and simply remove the tamper evident seal as shown. These covers are recyclable, please discard thoughtfully.



- 5 Open the light grey hinged cover which protects the firetree and Diameter Index Outlet (DIO) connections.



## Summary

To access the gas outlet ports open the cover as shown. Simply swing the cover down allowing it to stay attached at the hinge where possible. These covers are recyclable, please discard thoughtfully.



## 6 Connect

### Firtree outlet:

This outlet is for connecting therapy tubing, mask or cannulae to the variable flow selector.



## Summary

After you have checked that the flow selector is set to zero **3** attach therapy tubing, mask or cannulae directly to the firtree outlet. This will allow you to deliver gas to the patient after the OPEN/CLOSE hand wheel has been opened **8** and the flow selector set **9**.

The firtree outlet is suitable for tubing diameters from 6mm to 8mm.



## 7 Connect

**DIO (Diameter Index Outlet):**  
This outlet is for the connection of equipment eg. portable suction device.

NOTE: DIO is also known as SIS – Sleeve Index System, refer AS2896



To achieve a gas-tight seal equipment should only be fitted to the DIO hand-tight. To ensure a good seal first check that the equipment to be fitted to the DIO has an O-ring in good condition in place. Then fit the equipment connection to the DIO hand-tight only. Tools or leveraging of equipment should never be used to secure equipment to the DIO as it may damage the device and endanger the user.



## Summary

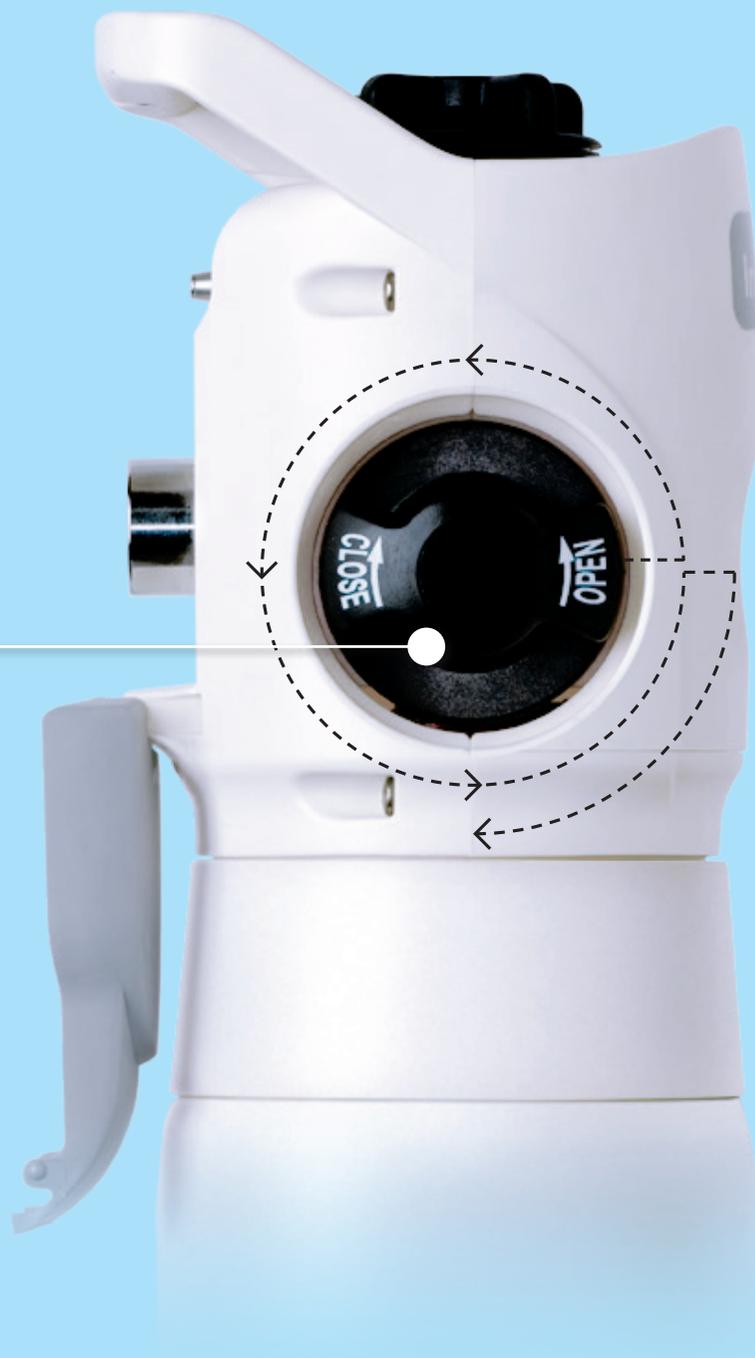
The DIO outlet is used in conjunction with the OPEN/CLOSE hand wheel to deliver gas (4 Bar) to equipment attached to the DIO. Gas will not flow from the DIO unless equipment is attached to it. The DIO outlet delivers gas independently of the firtree outlet.

Use the hand wheel connection on your equipment to attach directly to the DIO, ensure that the flow selector is set to zero **3** then open the OPEN/CLOSE hand wheel **8** to use equipment.

The DIO connection will allow you to connect a variety of equipment depending on your needs eg. portable suction devices, ventilators and flowmeters for low and high range applications.



- 8 To open the cylinder valve slowly rotate the OPEN/CLOSE hand wheel in an anticlockwise direction fully, then a quarter of a turn clockwise, as illustrated.



## Summary

The OPEN/CLOSE hand wheel is used to provide gas to both the firtree outlet **6** once a flow setting has been selected, and the DIO outlet **7** once equipment has been attached.

The firtree & DIO outlets work independently of each other.

- 9 Rotate the gas flow selector knob to the desired flow rate for your application.



## Summary

The flow selector is used in conjunction with the firtree outlet **6** and the OPEN/CLOSE hand wheel **8** to deliver variable gas flow (0 - 15 lpm). When not in use or before opening the cylinder for the first time the flow selector should be set to zero.

The flow indicator window rotates clockwise to select higher flow settings, and in reverse for lower settings and to return to zero.

Always place the setting directly on the number in the window. The unique design of the flow meter allows a nominal amount of gas flow between settings if accidentally selected.

10 After use.



**a** Slowly close the OPEN/CLOSE hand wheel by rotating in a clockwise direction until it stops, as illustrated.



**b** Depressurise equipment.



**c** Set flow selector to zero.



**d** Remove equipment and tubing, replace grey cover where possible and return to BOC.

## Carry handle

The carry handle has been ergonomically designed to provide a balanced and safe carry point for the INHALO® device. The handle acts as a protection barrier for the gas outlets if the cylinder should be knocked over.

## Cylinder fill port cover and batch label.

 For BOC use only, the cylinder fill port should never be tampered with as serious injury may occur. The batch label acts as a tamper evident seal.

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# Thank you for your attention.

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