

Porter 2-Cylinder Mobile Cart

Instructions for Use and Installation Guide



Representation

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	Conformité Européenne (CE) Mark	Compliance with conformity assessment on quality management system and technical documentation per Regulations (EU) 2017/745 for Medical Device, Annex IX Chapters I & III
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READ INSTRUCTIONS FOR USE COMPLETELY BEFORE OPERATING THIS DEVICE

This document contains warnings, cautions, instructions for use, and maintenance information that the user must completely comprehend before using this device. Failure to properly operate and maintain this device may result in patient/user harm and/or damage to equipment.

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WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.



CAUTION: Federal law restricts this device to sale by or on the order of a physician or dentist.



Visit our website: <https://www.porterinstrument.com/wall-cabinet-mounts> for additional information.

To download Instructions for Use: visit <https://www.porterinstrument.com/dental-support> or <https://www.porterinstrument.com/medical-support>. Choose “Carts and Mounts” from the dropdown within the “Product Download” section.

1. Device Information

1.1. Intended Use/Intended Purpose

The 2-Cylinder Mobile Cart is intended for use with a continuous or demand flow conscious sedation system to hold a gas mixing device and connect, regulate, and supply oxygen and nitrous oxide medical gas to the system.

1.2. Models

The 2-Cylinder Mobile Cart is available in 6 models (described below). Mobile Carts are available with different regulator configurations. Throughout this document, the 2-Cylinder Cart model 2100-2 (dual regulators), is pictured. All instructions and information are the same for all models unless specified otherwise.

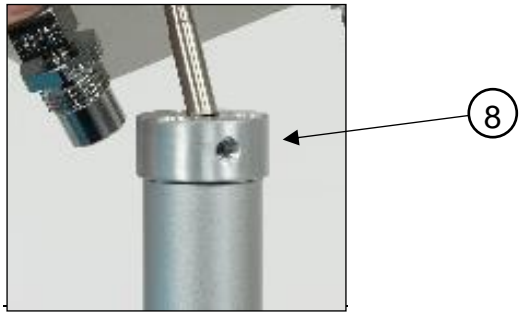
Device Model Table

Model Number	Model Description
2100*	Two Cylinder Cart
2100-2	Two Cylinder Cart with Dual Regulators and Hoses
2100-N	Two Cylinder Cart with Nitrous Oxide Regulator
2100-NC	Two Cylinder Cart with Nitrous Oxide Regulator and Hose
2100-ISO-2*	2-Cylinder Mobile Cart with Regulator O ₂ , Regulator N ₂ O, and Gas Supply Hoses
2100-ISO-N*	2-Cylinder Mobile Cart with Regulator, N ₂ O, and Gas Supply Hose

*Denoted as CE Certified and available on European Market. Other models may be available on other international markets.

1.3. User Interface

#	Description	
1	Handle	
2	5-star Wheelbase	
3	Brake on Casters	
4	Mounting Adaptor	
5	Cylinder Holders	
6	Gas Connections a) Regulator b) Pressure gauge c) Gas Supply Hose	
7	Storage Basket	

<p>8 Set Screws (Mounting Flowmeter)</p>	
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1.4. General Description/Principles of Operation

The 2-Cylinder Mobile Cart is a portable stand that provides nitrous oxide (N₂O) and oxygen (O₂) to a conscious sedation flowmeter. The 2-Cylinder Mobile Cart is used with two "E" sized cylinders of O₂ or two "E" sized cylinders of N₂O, or one of each. The two pressure gauges reflect cylinder pressure only. When the gas supply is opened, gas will flow through the check valves in the yoke assembly and is regulated down to 50 – 55 PSI at the pressure regulators, out through the hoses, and to the flowmeter. The check valves prevent the gas from flowing between cylinders or out into the room if only one cylinder is in use.

The 2-Cylinder Mobile Cart is equipped with various safety features, which are described in Section 1.7.

1.5. Use of the Device

The 2-Cylinder Mobile Cart is to be used by a medical professional trained in the use and administration of N₂O and O₂ gases. The device is designed for use in a gas delivery and scavenging system for pain management and / or minimal conscious sedation, which is ideal for short, minimally invasive procedures to alleviate patient anxiety or minor pain and discomfort. It is the responsibility of the medical professional to consider the side effects, contraindications, and risks associated with administration of nitrous oxide and use of conscious sedation.

The 2-Cylinder Mobile Cart is not used for the administration of general anesthesia or as part of, or in conjunction with, a general anesthesia administration system. The user should observe the patient to prevent over sedation in the event of an oxygen failsafe malfunction or crossed lines. If a patient becomes overly sedated when being delivered 100% oxygen, immediately remove the mask/nasal hood, and encourage mouth breathing. This is an indication of a failsafe malfunction or crossed lines; in this case, only deliver pure oxygen from an independent source.



WARNING: Do not use this device for the administration of general anesthesia or as part of, or in conjunction with, a general anesthesia administration system.

NOTE: If a serious incident (death or any intervention) has occurred while the device was in use, it should be reported to the manufacturer immediately and the Competent Authority of the member state in which the serious incident occurred.

1.6. Patient Population

The patient population includes conscious, spontaneously breathing, awake, alert, and cooperative patients.

Patients are selected by a medical professional trained in the use and administration of nitrous oxide and oxygen gases. The medical professional must consider patients who are able to receive the gas mixture based on the risks associated with conscious sedation.

1.7. Warnings and Cautions

Warnings and cautions are listed where relevant to a certain section of this document.

A **WARNING** is an instruction, procedure, or explanation of hazards that may result in injury.

A **CAUTION** is an instruction, procedure, or explanation of hazards that may result in damage to a product, equipment, or the environment.



WARNINGS and **CAUTIONS** are presented throughout the document along with this symbol to alert the reader of their presence.

1.8. Safety Features

Cylinder Basket:

The 2-Cylinder Mobile Cart is equipped with cylinder baskets to ensure the “E” cylinders are secure.

Brake on Casters:

The 2-Cylinder Mobile Cart is equipped with brakes on the casters to prevent it from rolling freely during use.

Check Valves:

The 2-Cylinder Mobile Cart is equipped with check valves, which prevent the gas from traveling from a full cylinder to an empty cylinder or into the room.

DISS Fittings:

The 2-Cylinder Mobile Cart is equipped with Diameter Indexed Safety System (DISS) fittings, which act in a key-like fashion to ensure that each correct hose can be connected to the correct appropriate fitting. This prevents an accidental crossing of the N₂O when O₂ gas lines.

Pin Index Safety System:

The 2-Cylinder Mobile Cart yoke assembly is equipped with cylinder mounting pins that are configured to prevent installation of the incorrect gas cylinder.



WARNING: The 2-Cylinder Mobile Cart is not intended to be used during an MR exam and has not been evaluated for safety and compatibility in the MR environment. The safety of the 2-Cylinder Mobile Cart in the MR environment is unknown, but due to the presence of materials in the device that may be ferromagnetic, the 2-Cylinder Mobile Cart should be considered “MR Unsafe” and should be kept outside of any MRI scanner rooms.



WARNING: Workers exposed to N₂O may suffer harmful effects. The healthcare professional is responsible for employing proper techniques, such as scavenging, room ventilation, system maintenance, and patient compliance to reduce exposure (ACGIH recommends a Threshold Limit Value of 50 parts per million over an 8-hour time-weighted average).



WARNING: The 2 Cylinder Cart is used with the delivery of Oxygen (O₂). Therefore, when this device is used in conjunction with energy producing devices (such as lasers, radio frequency sources, or other heat sources), the user must adhere to the instructions for use of those devices to avoid ignition of combustible materials.

1.9. Delivery Protocols

It is the responsibility of the medical establishment and the healthcare professional to develop specific delivery protocols for administration of N₂O using the 2 Cylinder Cart. Specific delivery protocols for adult and pediatric patients should be developed.

The 2-Cylinder Mobile Cart is considered transient (less than 60 minutes) in terms of continuous use when providing analgesia (minimal sedation). Procedures that occur intermittently over the course of many hours may also be considered transient. The upper limit of use duration is at the discretion of the medical professional.

1.10.Safe Combination of devices

2-Cylinder Mobile Cart is designed to be used within a nitrous oxide/oxygen conscious sedation delivery and scavenging system to deliver an accurate mixture of nitrous oxide and oxygen gases to a conscious, spontaneously breathing patient. The device system is also used to remove exhaled waste analgesic gas through a vacuum control system. The system is comprised of a series of devices and accessories, which includes a demand system, breathing circuit with face mask or mouthpiece, vacuum controller with reservoir bag, mounting stand, and gas supply hoses.

To ensure safe combination of device, user should follow the installation instructions in **Section 2** below and ensure all connections are secure and tight.

1.11.Specifications

Dimensions

44 in W x 21 in H
(111.76 cm W x 53.34 cm H)

Cylinder Supply Pressure

N₂O: 0 - 750 psi (5.17 MPa)
O₂: 0 - 2200 psi (15.85 MPa)

Regulated Output Pressure

O₂: 40 - 65 psi (275.79 - 448.16 kPa)
N₂O: 40 - 65 psi (275.79 - 448.16 kPa)

Atmospheric Pressure

1 atm ±0.2 atm (101 kPa ±20 kPa)

Basket maximum weight

10 lbs (4.5 kg)

Gauges and Accuracy

Oxygen Regulator: 0-4000 psi
Nitrous Oxide Regulator: 0-4000 psi
Accuracy Range 3-2-3% of span*

*Accuracy for gauge reads in 3 sections

Weight

2100: 31 lbs (14.06 kg)
2100-2: 37 lbs (16.78 kg)
2100-N: 35 lbs (15.88 kg)
2100-NC: 27 lbs (12.25 kg)
2100-ISO-2: 37 lbs (16.78 kg)
2100-ISO-N: 35 lbs (15.88 kg)

Connection Fittings

O₂ Outlet: DISS 1240 (female thread)
N₂O Outlet: DISS 1040A (female thread)

Environmental

Temperature

Storage/Transport: -30°F - 140°F
(-34°C - 60°C)
Operational: 50°F -113°F (10°C - 45°C)

Relative Humidity

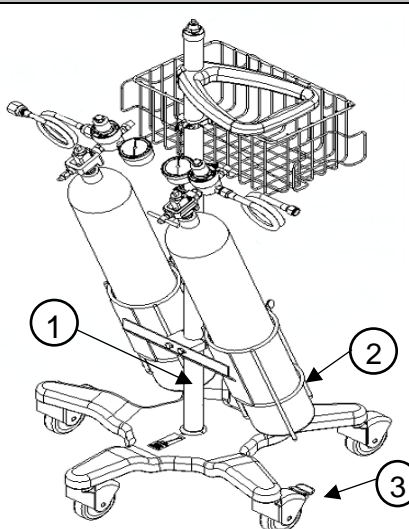
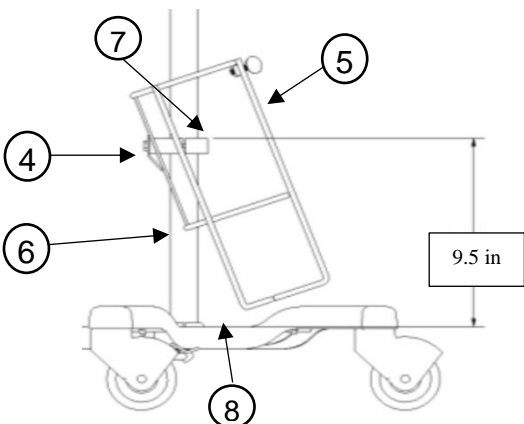
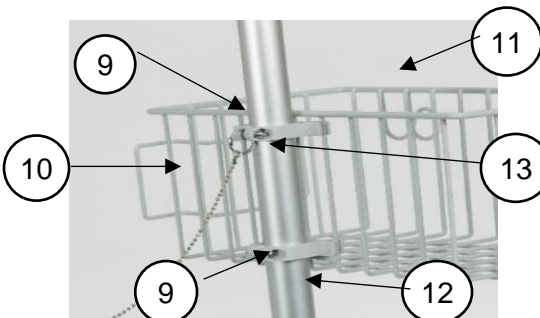
Storage/Transport: ambient
Operational: ambient, non-condensing

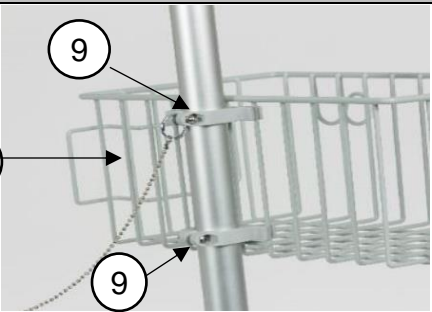
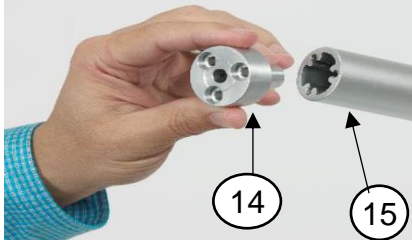
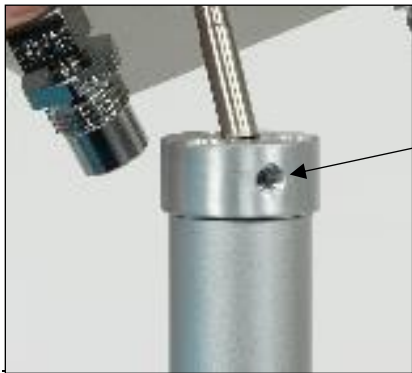
2. Installation Instructions



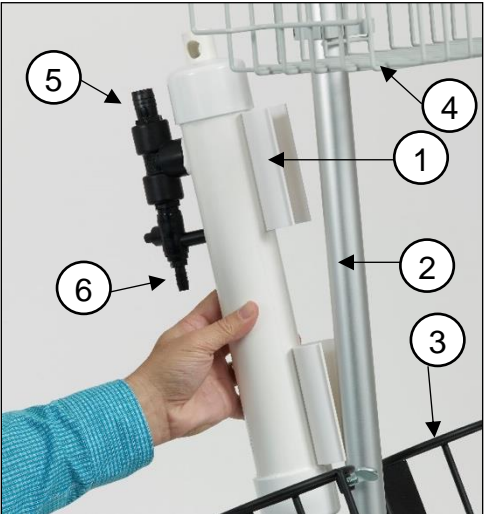
WARNING: For centrally piped facilities, properly connected gas pipelines are essential to patient safety. The ultimate responsibility of assuring that lines are not crossed rests with the user. Per NFPA 99, the certified medical gas plumber, and verifier, should provide written documentation that all gas pipelines are connected properly and that all use points of the system have been tested prior to use. It is important that the user verify by their own test that all gas pipelines are connected properly prior to using the system.

2.1. Assemble 2-Cylinder Mobile Cart

Assemble Cart		
1	Align Post (1) so Cylinder Holders (2) are between the two legs on the 5-Star Wheelbase with non-locking casters (3).	
2	Secure the assembly tightly using included 1/2" Hex Wrench and Post Hardware. Insert screw into lock washer, then flat washer.	
3	Lock casters (3) on 5-Star Wheelbase	
4	Loosen screws (4) on Cylinder Holder (5) using included 5/32" Hex Key.	
5	Position Cylinder Holder (5) against Post (6) so the top of the Holding Block (7) is distance of 9.5" (24.13 cm) from top of Wheelbase (8).	
6	Position Post (6) so the screw heads are on the same side as the opening of the Cylinder Holder (5).	
7	Tighten screws (4) to secure Cylinder Holder (5) to Post (6).	
8	Attach Basket Clips (9) at the top and bottom edges of Utility Basket (10), opposite the Basket Hooks (11).	
9	Loosen screws on Basket Clips (9) and attach to Post (12).	
10	Position top of Utility Basket (10) 8.0" (20.32 cm) from top of Post (12).	
11	Connect Cylinder keyring (13) to Basket Clip (9) by removing the Basket Clip, attaching the keyring, and then replacing the Basket Clip screw.	

Assemble Cart		
12	Align Basket (10) so that Cylinders are behind the basket and tighten Basket Clip (9) screws to secure.	
13	Attach End Cap (14) by aligning holes in top of End Cap with holes in the top of Post (15) and align Set Screw hole (16) on side of end cap to Utility Basket side.	
14	Insert End Cap (14) into Pole (15), and secure End Cap with three head screws.	
15	Loosely install Set Screw (16) into End Cap.	

2.2. Connecting Nitronox Scavenger

Scavenger Interface Connection (Optional)		
1	Orient the Scavenger Interface vertically with Hose Connection (5) up and Barbed Outlet Connection (6) down.	
2	On the opposite side of the basket, position the Scavenger Snap Clip (1) along the Post (2) between the Cylinder Holders (3) and below the Utility Basket (4). Push snap clips until it Scavenger Interface is secure onto the Post.	
3	Connect hoses by removing the cap and connecting scavenger hoses from breathing circuit to Hose Connection (5). Connect vacuum hose from the vacuum source to Barbed Outlet Connection (6). Push Vacuum hose until 2-3 barbs are covered.	

2.3. Connecting Supply Lines



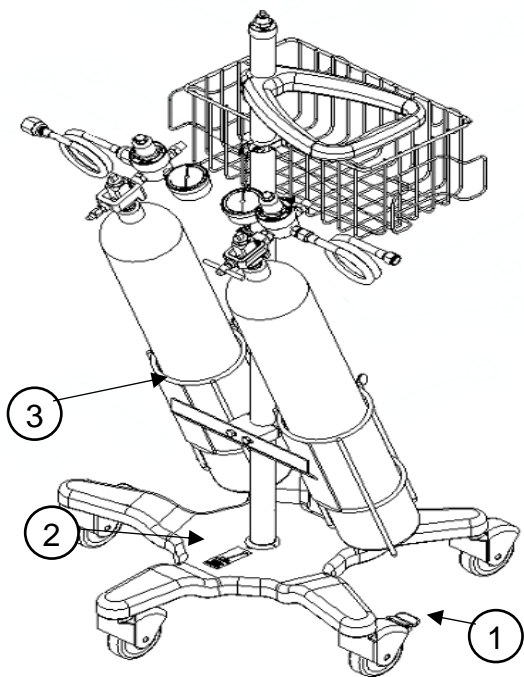




WARNING: Always use clean, dry, medical grade gases, and never oil or grease any part of the device.

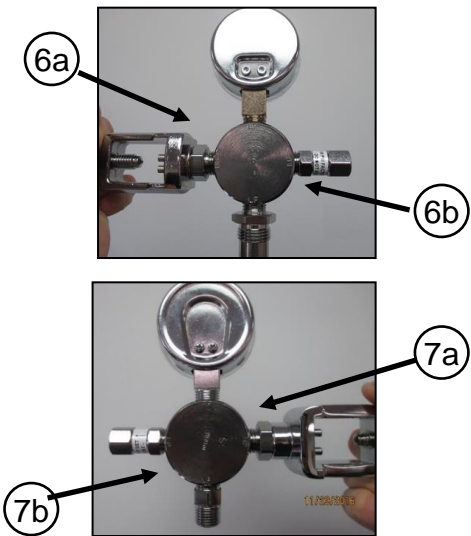
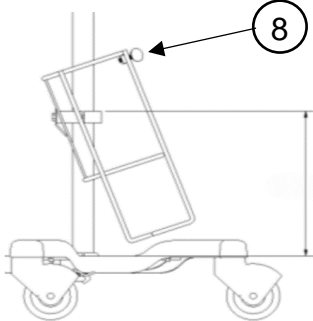
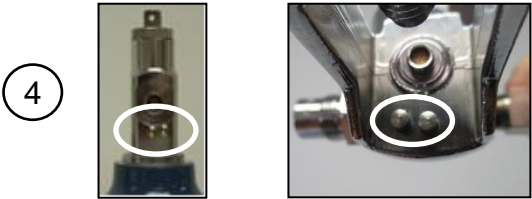



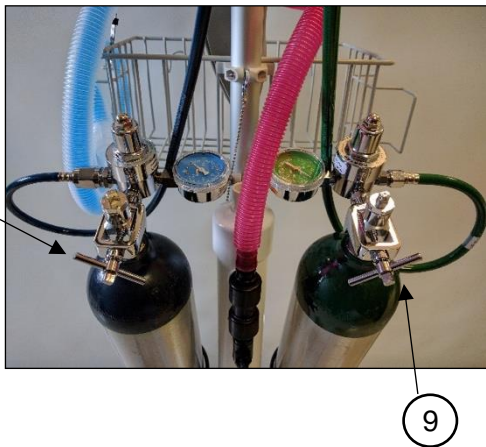
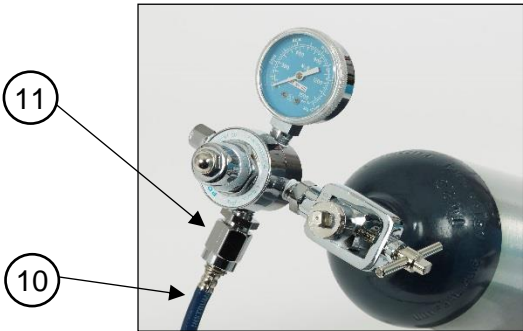
WARNING: Do not change the connection fitting type or diameter of the supply hoses. The Diameter Indexed Safety System (DISS) is designed to prevent misconnection of N₂O and O₂ supply lines.



WARNING: Ensure Tee Handle is tightly secured to prevent possible cylinder leakage, which may be indicated by loud hissing or popping sounds.

Gas Supply and Other Connections		
1	Lock Casters (1) on Wheelbase (2)	
2	Cylinder Preparation: <ol style="list-style-type: none"> Remove and discard any plastic wrap and plastic washer from the top of the cylinder. Crack the cylinder. Keep cylinder top clean. 	
3	On the opposite side of the basket, place an N ₂ O gas cylinder into Cylinder Holder (3) and O ₂ gas cylinder into the other Cylinder Holder, allowing the bottom of cylinders to rest on the bottom of Cylinder Holders. Note: The 2-Cylinder Mobile Cart typically holds one each N ₂ O and O ₂ gas cylinders but may hold two N ₂ O gas cylinders when using an alternate O ₂ gas supply.	
4	Based on your configuration of N ₂ O and O ₂ gas cylinders, ensure the right connection is made for your configuration on the regulator assembly. (N₂O (4) and O₂ (5))	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">   </div> <div style="width: 50%;">   </div> </div>

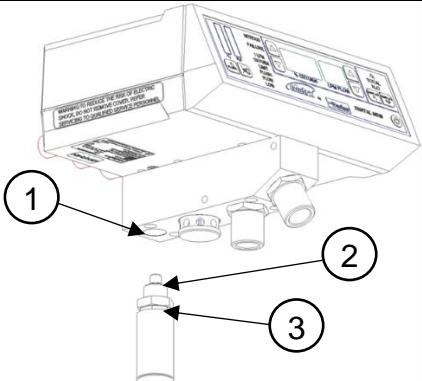
6	<p>Confirm location of “LP” (low pressure) and “HP” (high pressure) label engravings near the fitting connections on the back of the O₂ and N₂O Regulators.</p> <ul style="list-style-type: none"> • N₂O HP left and top (6a) • N₂O LP right and bottom (6b) • O₂ HP right and top (7a) • O₂ LP left and bottom (7b) 	
7	<p>Rotate the cylinder such that holes for the pins are facing the center post</p>	
8	<p>Tighten Screws (8) of N₂O and O₂ Cylinder Holders to secure cylinders in place.</p>	
9	<p>Slide N₂O (4) and O₂ (5) Regulators over cylinder valves and line up pins with pin holds on each cylinder.</p>	
10	<p>Slide the Regulator pins into the cylinder valve pin holes.</p>	

11	Securely tighten Yoke Tee Handles (9) ensuring metal and rubber sealing washers are in flat seating position and yoke pins are in place in cylinder post holes.	
12	Attach N ₂ O and O ₂ gas supply hoses (10) to Regulator DISS output connections (11).	
13	If replacing an empty gas cylinder: <ul style="list-style-type: none"> • Close empty gas cylinder valve using Cylinder Wrench. • Slowly loosen Yoke Tee Handle to bleed gas. • Then follow install instructions above. 	

2.4. Mounting a Flow meter to the 2-Cylinder Mobile Cart



WARNING: Ensure Knob is fully tightened after attaching the Flowmeter to avoid damage to the devices.

Flowmeter Connection		
1	Hold the 2-Cylinder Cart so that the mounting hole (1) is above the mounting thread (2).	
2	Thread stud into 5/8 - 18 threaded hole (3) on bottom of the outlet housing until nut is reached.	
3	Tighten the set screw in the collar of the 2-Cylinder Mobile Cart to keep the flowmeter from rotating freely.	

3. Instructions for Use

3.1. Setup and Prechecks



WARNING: To minimize the risk of fire or explosion:

- Always ensure cylinder valves are clear of dust and dirt prior to connection. One method to clear dust and dirt is to briefly “crack” the cylinder valve open to blow out any debris in the line before installing the cylinder.
- Do not discharge the gas at any person or flammable material.
- Always turn on Cylinder Valves slowly and fully.



WARNING: The user should observe the patient to prevent over sedation in the event of an O₂ failsafe malfunction or a crossed lines situation. If a patient becomes overly sedated when being delivered 100% O₂, immediately remove the mask and encourage mouth breathing. This is an indication of a failsafe malfunction or crossed lines. In this case, only deliver pure O₂ from an independent source.



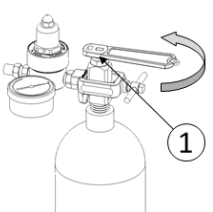
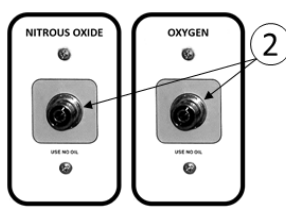
CAUTION: It is best practice upon completion of the procedure to close the cylinders (if portable gas supply) or disconnect from wall outlets (if central gas supply). Failure to do so may result in gas depletion should there be a leak.



WARNING: When removing gas cylinders, always ensure valves are closed tightly.



WARNING: Do not disconnect with supply line pressurized. Always disconnect at supply source first.

1	Ensure the flowmeter is securely mounted (as described in Section 2) and the gas supply hoses are connected to the correct fittings on the flowmeter.	
2	Ensure the necessary prechecks have been performed, before using the 2-Cylinder Mobile Cart. The precheck instructions are described in Section 4.1 Prechecks .	
3	Ensure 2-Cylinder Mobile Cart is populated with at least one full cylinder of O ₂ and N ₂ O before starting any procedure. (Two cylinders of O ₂ or two cylinders of N ₂ O or one of each are typically connected at all times.) Label each cylinder with a tag or sticker indicating “In-Use” or “Full” (“Full” is reserve) if using two of the same type of gas.	
4	Using supplied Valve Wrench, turn on the N ₂ O and O ₂ gas supplies. If using gas cylinders, slowly open the cylinder valves (1) to open the “In-Use” cylinders. If connecting to a wall supply, connect the supply lines to the appropriate outlet connections (2).	 
5	Supply pressure is preset by the manufacturer on the 2-Cylinder Mobile Cart. When using a wall supply, refer to your flowmeter instructions for correct supply pressure.	
7	Cylinder pressure gauges on the regulators provide a visual indication of cylinder status. Note: If using two cylinders of the same gas and both cylinders are open, the two cylinders will deplete in tandem. The “Full” cylinder will empty with the “In-Use” cylinder and will not be available as a future spare.	
8	When “In-Use” cylinder is fully depleted, open the spare “Full” cylinder (Close valve on empty cylinder). Do not remove and replace partially full cylinder; only replace with new clean full cylinder.	
9	At the end of procedure, using supplied Cylinder Wrench, turn off the N ₂ O and O ₂ gas supplies. If connecting to a wall supply, disconnect the supply lines to the outlet connections.	

4. Maintenance

The 2-Cylinder Mobile Cart has an expected service lifetime of 20 years. The device requires proper maintenance, pre-checks, and servicing. Once the device reaches an age of 20 years, a failed pre-check will indicate that the device has reached the end of its useful life.

The Gas Supply Hose has an expected lifetime of 20 years and once it reaches this age, any damage will indicate that the device has reached the end of its useful life.

Check	Frequency
Inspect 2 Cylinder Cart, hoses, fittings, and connections for damage, wear, and audible leaks.	Before every use
Leak Test	Once a month
Sealing Washer (Yoke) Replacement	Once a year



WARNING: Proper inspection and maintenance of this device is essential to prevent gas leaks. All hoses, fittings, and connections should be inspected regularly, and all leaks should be repaired immediately.



WARNING: If precheck test cannot be executed successfully, do not use this device and contact distributor.



WARNING: Do not modify this equipment without authorization of the manufacturer.



WARNING: Do not use or replace any components or accessories, except those specified in these instructions for use and installation guide.

4.1. Pre-Check

Leak Test

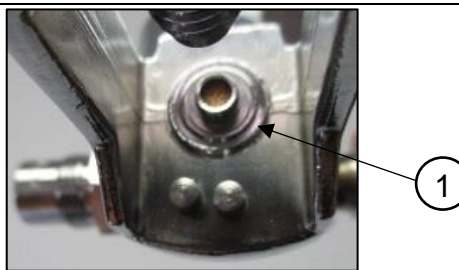
1	Attach the gas supply hoses to a flowmeter and ensure the flowmeter and flow valves are off.
2	Turn on gas cylinders to pressurize gas supply lines and Regulator Assemblies with cylinder pressure.
3	Turn off gas cylinders.
4	Apply masking tape to both gauge faces in a position where marking the needle movement will not be difficult.
5	Tap lightly on gauges and mark gauge needle positions on masking tape.
6	There should be little or no movement of the gauge needles after 15 minutes.
7	If the needle on the gauges do not remain stationary, contact your authorized distributor for service and troubleshooting.

4.2. Sealing Washer (Yoke) Replacement



Warning: High pressure up to 2400 psi (16.54 MPa).

1	When replacing the sealing (yoke) washer, wear gloves to prevent debris from entering gas pathway. Note: Turn OFF all cylinder valves / supply pressure. Switch flowmeter on/off switch to the “on” position and open both valves to vent the pressure.
2	Slowly loosen Yoke Tee Handle to bleed any remaining gas.
3	Remove Sealing Washers (1) from Yoke assemblies.
4	Install new Sealing Washers. Re-attach cylinders and tighten Yoke Tee Handle.



4.3. Cleaning

The 2-Cylinder Mobile Cart must be cleaned between each use in order to prevent the spread of infections. Cleaning the device has been validated with Super Sani-Cloth™ Germicidal wipes.

WARNING: The following warning applies to the device and any device's components and accessories:



- Do not spray directly with disinfecting chemicals.
- Do not immerse in water, sanitizer, cleaning solution, or any other liquid.
- Do not sanitize or wipe the inside of the fittings, gas supply hoses, or connection ports.
- Always ensure the device and device's components and accessories are completely dry before use.










1	Using a Super Sani-Cloth™ Germicidal wipe, thoroughly wipe down the 2-Cylinder Mobile Cart until all visible dirt and soil is removed. Take extra care to wipe tee handle, cart handle, utility basket, and cylinder holder as these are the most handled areas of the device. A soft bristled brush may be used to loosen any soil that is difficult to remove.
2	Using a Super Sani-Cloth™ Germicidal wipe, thoroughly wipe down the gas supply hoses and fittings until all visible dirt and soil is removed. Do not wipe the inside of the hoses or fittings as this may deposit cleaning agents into the breathing pathway of the device.
3	Do not clean the regulator fittings and connections and metal and rubber washer to prevent debris from entering the device. Avoid wiping and applying cleaner to the inside of the ports.






4.4. Disposal

It is best practice to inquire with local authorities for proper disposal guidelines, if applicable.

5.Symbols Glossary

The following symbols may be used throughout this document, as well as on device labels and packaging.

Symbol	Title of Symbol	Description of Symbol
	Manufacturer Information	Indicates the medical device manufacturer and is accompanied by the name and address of the manufacturer. [EN ISO 15223-1:2021, clause 5.1.1]
	Date of manufacture and Country of Manufacture	Indicates the country where the device was manufactured. Also Indicates the date when the device was manufactured. This symbol is accompanied by four digits for the year the device was manufactured. [EN ISO 15223-1:2021, clause 5.1.3, 5.1.11]
	Catalog Number	Indicates the manufacturer's catalog number of the device and is used for identification of the device. [EN ISO 15223-1:2021, clause 5.1.6]
	Serial Number	Indicates the manufacturer's serial number of the device and is used for identification of the specific device. [EN ISO 15223-1:2021, clause 5.1.7]
	Unique device identifier	Indicates a carrier that contains unique device identifier information [EN ISO 15223-1:2021, clause 5.7.10]
	Prescription device	Indicates that federal law restricts this device to sale by or on the order of a physician or dentist.
	Medical Device	Indicates the item is a medical device [EN ISO 15223-1:2021, clause 5.7.7]
	Consult Instructions for Use	Indicates the need for the user to consult the instructions for use [EN ISO 15223-1:2021, clause 5.4.3]
	Caution	Indicates the need for the user to consult the instructions for use for important cautionary information such as warnings and precautions that cannot be presented on the medical device itself. [EN ISO 15223-1:2021, clause 5.4.4]

Symbol	Title of Symbol	Description of Symbol
	Caution/Warning	Indicates important cautionary or warning information to the user that is presented in the instructions for use that accompanies explanatory instructions to the user [EN ISO 15223-1:2021, clause 5.4.4]
	MR Unsafe	Indicates that the product should not be used near any magnetic resonance equipment [ASTM F2503-20 Table 1 and Table 2]
	European Community Authorized Representative	Indicates the authorized representative in the European Community (European Union) [EN ISO 15223-1:2021, clause 5.1.2]
	Switzerland Authorized Representative	Indicates the authorized representative in Switzerland [MU600_00_016e / V3.0]
	Conformité Européenne (CE) Mark	Indicates that the product may be traded freely in any part of the European Economic Area, regardless of its country of origin. [2017/745 EU Annex V]

6. Warranty

CERTIFICATE OF WARRANTY

THIS WARRANTY IS GIVEN IN PLACE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.

Under no circumstances shall Parker Hannifin Corporation be liable for incidental or consequential damages as those terms are defined in the uniform commercial code.

Parker Hannifin Corporation, Porter Instrument warrants that each product or part shall be free from defects in workmanship and materials, under normal use and with appropriate maintenance, for one (1) year from the date of delivery to customer unless otherwise specified in writing. All rubber and plastic parts and accessories are warranted under the same conditions for a period of ninety (90) days from date of purchase.

No statement or claim about the product by any employee, agent, representative, or dealer of Parker Hannifin Corporation shall constitute a warranty by Parker Hannifin Corporation or give to rise to any liability or obligation of Parker Hannifin Corporation.

Parker Hannifin Corporation shall not be liable for any damage, injury or loss arising out of the use of the product, whether as a result of a defect in the product or otherwise, if, prior to such damage, injury or loss, the product was (1) damaged or misused; (2) repaired, altered or modified by persons other than Parker Hannifin Corporation; (3) not installed in strict compliance with applicable codes and ordinances; or (4) not installed by an authorized Parker Hannifin Corporation dealer. Parker Hannifin Corporation's obligation for breach of this warranty, or for negligence or otherwise, shall be strictly and exclusively limited to the repair or replacement of the product or part. This warranty shall be void on any product on which the serial number has been altered, defaced or removed.

ORDERS All orders are to be made through authorized Parker Hannifin Corporation distributors. All billing will be done through said distributors. Direct orders will be handled through the authorized local dealer as determined by Parker Hannifin Corporation.

RETURNS All returned merchandise will be handled through the local Parker Hannifin Corporation distributor. No returns will be accepted unless authorized in writing by Parker Hannifin Corporation and accompanied by the original shipping invoice. All returns are subject to restocking charge.

Policies subject to change without notice.

To register your product: visit <https://www.porterinstrument.com/dental-support> and click on Warranty Registration Form button.