



Yoke Block Instruction Manual



WARNING

IMPORTANT:

READ MANUAL COMPLETELY BEFORE OPERATING THIS DEVICE

This manual contains instructions on periodically required checks to be performed by the user. These checks are necessary to ensure the proper performance of this device and its safety features.

RETAIN THIS MANUAL FOR FUTURE REFERENCE

CAUTION: Federal law requires this device for use by or on the order of a physician or dentist.

CAUTION: Do not attempt to repair or alter this device. Unauthorized repair, alteration or misuse of this device is likely to adversely affect the performance and will void the warranty.

CAUTION: Never oil or grease any part of this system.

The National Institute for Occupational Safety and Health has issued a warning for dental workers exposed to N₂O during administration of N₂O/O₂ conscious sedation analgesia. NIOSH has recommended that exposures should be minimized. Contact NIOSH to receive NIOSH Publications on Control of Nitrous Oxide in Dental Operatories at 1-800-232-4036. Exposure can be minimized by effective controls, including System Maintenance, Ventilation, and Work Practices can effectively reduce N₂O concentrations in dental operations. A scavenger system is a significant part of exposure control.

Index

Assembly of Yoke Block Stand.....	4-6
Cylinder Attachment to Yoke Block.....	8
Cylinder Detail.....	10
Cylinder Seals.....	9
Dimensions.....	7
Parts List.....	3
Pin Safety System.....	12
Purchase Record.....	13
Supply Hose Connection.....	7
Turning the Cylinder On/Off.....	11
Warnings.....	1
Warranty.....	14
Yoke Block Leak Test.....	12

Parts List

1. Base with Casters

2. Column

3. Yoke Block

4. Adjustment Knob

5. Yoke Block Mounting Screws

6. Z Bracket

7. Adjustment Rod with Locking Nuts

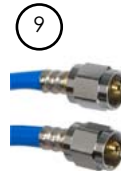
8. O2 Hose

9. N2O Hose

10. Flowmeter Mounting Screws

11. Yoke Plug

12. Cylinder Wrench

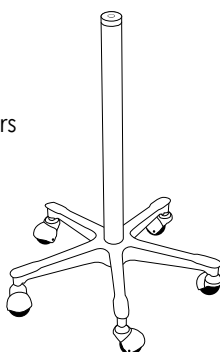


Assembly of Yoke Block Stand

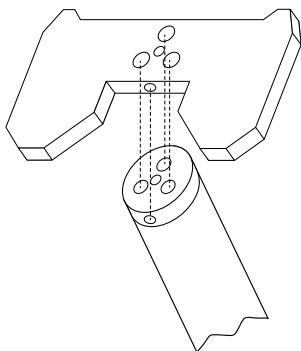
Read all instructions before assembly and use of this product.

⚠ WARNING: Failure to follow these warnings and instructions could result in serious injury or death.

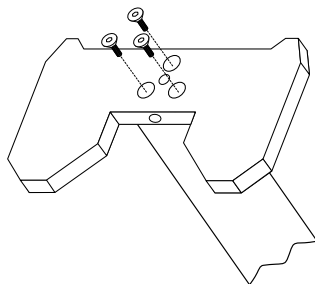
1. Place column in base with casters



2. Line up four holes of Yoke Block

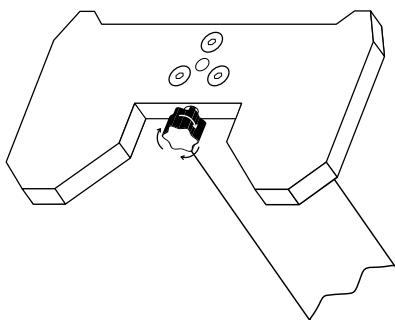


3. Attach Yoke Block to column with Yoke Block mounting screws. Use 5/32" hex key

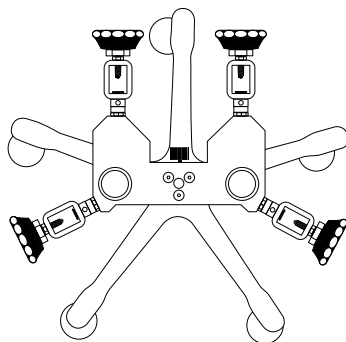


Assembly of Yoke Block Stand (cont.)

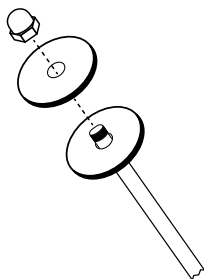
4. Screw in height adjustment knob 5 turns



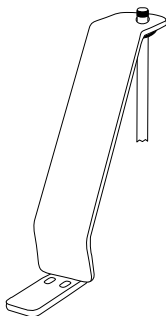
5. Rotate Yoke Block, with height adjustment knob in line with one of the stand legs, as pictured



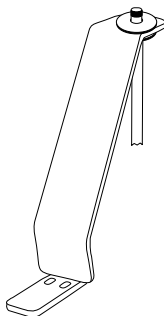
6. Remove acorn nut and jam nut from height adjustment rod



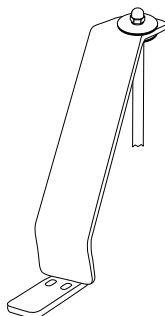
7. Place Z bracket on top height adjustment rod



8. Hand tighten locking nut onto adjustment rod

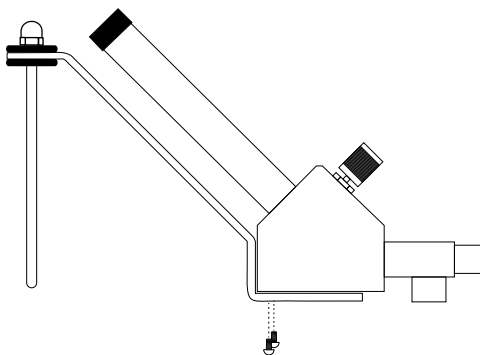


9. Tighten acorn nut onto adjustment rod using 3/4" wrench

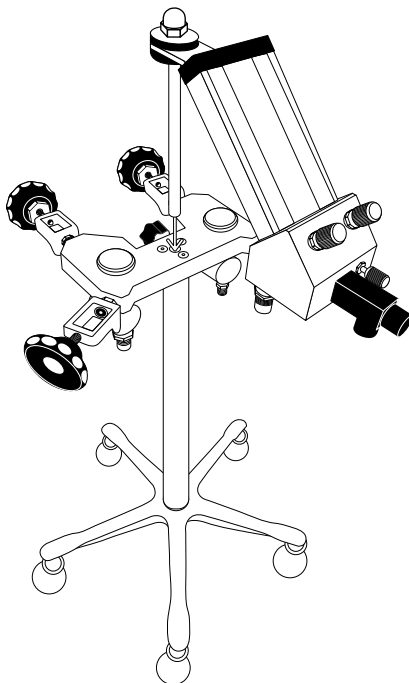


Assembly of Yoke Block Stand (cont.)

10. Mount Flowmeter head to Z Bracket using 2 Flowmeter mounting screws.
Use 1/8" hex key



11. Place adjustment rod into column. Tighten adjustment height knob

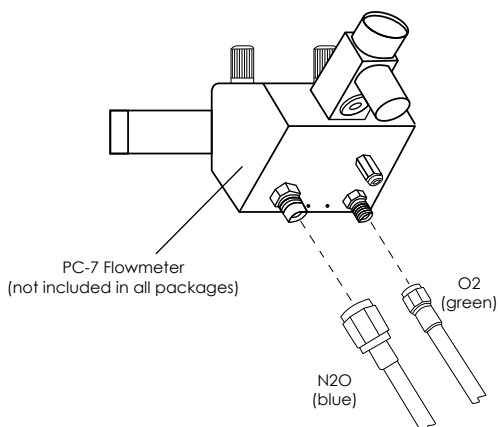
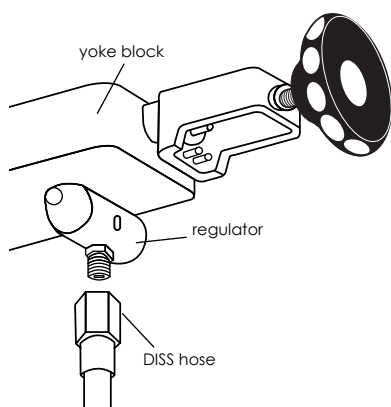


⚠ Adjustable height knob must be kept tight except when adjusting the height of the flowmeter

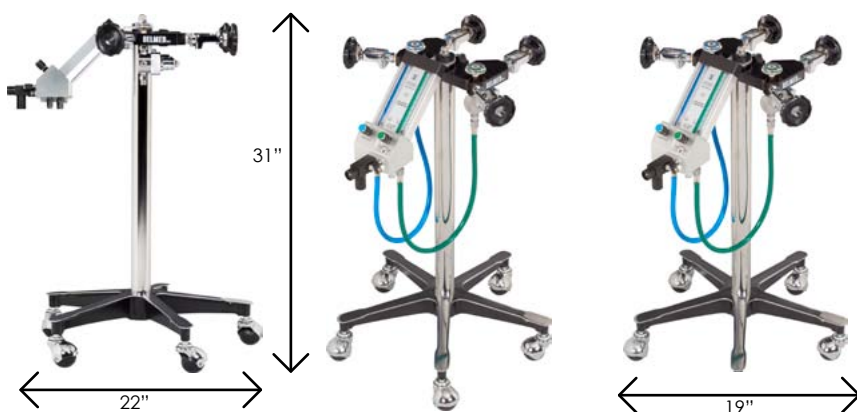
Supply Hose Connections

12. Connect the supply hoses

 **Use two wrenches**



Dimensions



 **Remember: always keep adjustable knob tight except when adjusting the height of the flowmeter**

Cylinder Attachment to Yoke Block

Introduce "E" cylinder into yoke, making sure that the gas and yoke are the same. Note the two index pin holes are facing in, towards yoke block; match the pins in yoke to holes in cylinder valve and push against seal in yoke.

Tighten cylinder into yoke by turning yoke tee handle clockwise. Complete this procedure with any additional cylinders if necessary.

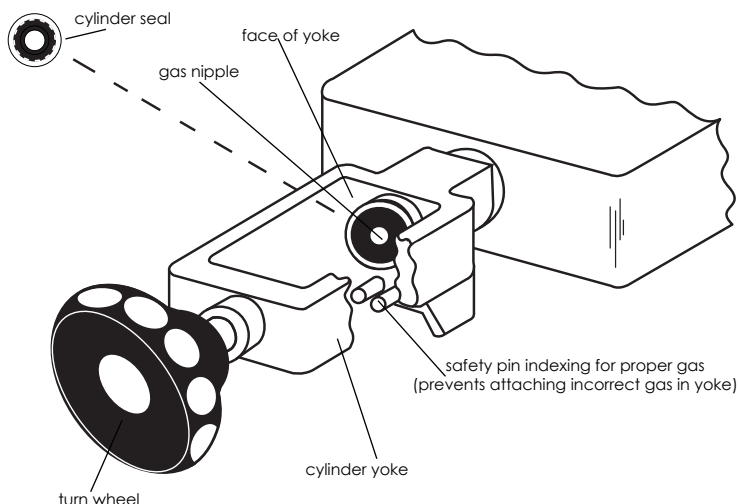
Using cylinder wrench supplied with yoke block, attach to oblong shaped tip located on top of cylinder valve. Turn 1/2 turn counter-clockwise (left) to open (a clockwise turn to right will close cylinder valve).

Flowmeter is now ready to operate. Always turn cylinder valves off when not using machine.

Replace O₂ cylinders when gauge pressure is 200psi (Full cylinder pressure is approx. 2000psi.)

Replace N₂O cylinders when gauge pressure is 500psi. (Full N₂O cylinder pressure is 750psi.)

In the event only one cylinder of gas is used, a plug is supplied, to be used in yoke, in place of the cylinder.



Cylinder Seals



*****FDA and NIOSH have recommended that plastic crush gaskets never be reused.*****

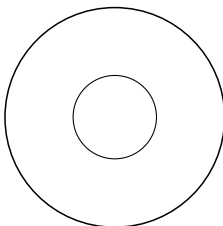
FDA and NIOSH have also issued the following general safety precautions to avoid explosions, tank ruptures, and fires from oxygen regulators.

1. Always "crank" cylinder valves (open the valve just enough to allow gas to escape for a very short time) before attaching regulators in order to expel foreign matter from the outlet port of the valve.
2. Always follow the regulator's manufacturer instructions for attaching the regulator to an oxygen cylinder.
3. Always use the sealing gasket specified by the regulator manufacturer.
4. Always inspect the yoke to ensure it is in good condition and equipped with only one integral metal and rubber seal that is in good condition. **AVOID PLASTIC SEALS.**
5. Tighten the turn wheel firmly by hand, but **DO NOT** use wrenches or other hand tools that may over-torque the handle.
6. Open the post valve slowly, while maintaining a grip on the valve wrench so that it can be closed quickly if gas escapes at the juncture of the seal and valve.

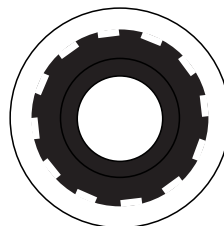
It is our recommendation that plastic seals be avoided. Plastic seals of this type may have been supplied with small cylinders. **DO NOT USE THESE SEALS.**

An alternate seal of Metal/Viton configuration is recommended for all applications and is available under our part #5404-0001. All Belmed, Inc. yoke blocks are equipped with this seal.

To order Metal/Viton washers please contact your dealer.

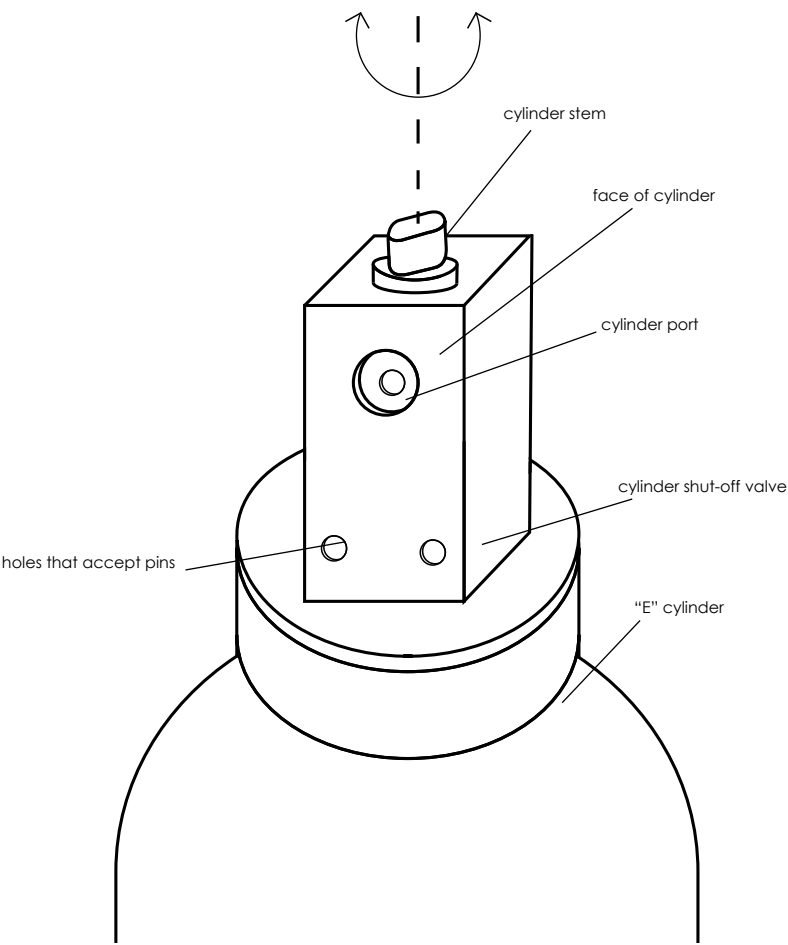


Improper Nylon
Washer

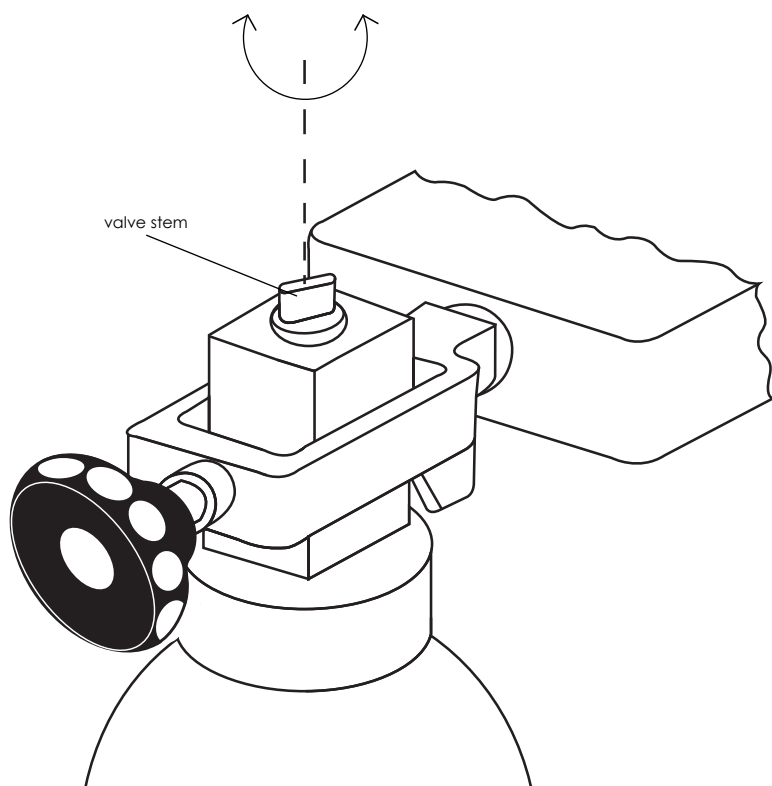


Metal/Viton Washer
Part #5404-0001

Cylinder Detail

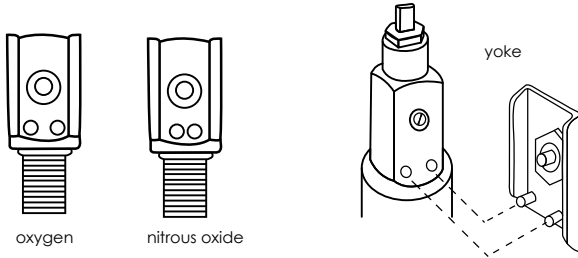


Turning the Cylinder On/Off



Place cylinder wrench on stem. Turn counter clockwise for on and clockwise for off.
Note: Make sure cylinder is tight in yoke

Pin Safety System



Small cylinder non-interchangeability is accomplished with the Pin Index System. This system uses two positioning holes on the cylinder valve and two corresponding pins on the yoke.

Yoke Block Leak Test

Start test with no pressure in system, gauge on yoke block at zero and flowmeter turned off. Make sure supplied cylinder seals are in place and cylinders are tight in yokes. Quickly open cylinder valve, tapping gas in lines. Observe gauge pressure for line being tested. Gauge pressure should remain constant with no pressure drop. If gauge pressure drops, recheck all connections for tightness. To isolate leaks, we recommend oxygen safe liquid leak detector available from a plumbing supply or hardware store. Use as directed on all connections, fittings, etc. Relieve system pressure and repeat procedure with other cylinder(s).



Purchase Record

MODEL NO.

SERIAL NO.

PURCHASE DATE

Notes

Warranty

Definition of Warranty Return: A product or part covered by the Belmed, Inc. warranty, that fails while the terms of the warranty are in effect.

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

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

Subject to the next sentence, Belmed, Inc 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. For plastic, rubber and disposable parts or items Belmed, Inc. warrants only that each such part and item shall be free from defects in workmanship and materials at the time of delivery to the customer.

Belmed, Inc.'s obligation for breach of this warranty, or for negligence or otherwise, shall be strictly and exclusively limited to Belmed Inc.'s choice of repair or replacement of the product or part. This warranty shall be void for any product on which the serial number has been altered, defaced or removed.

Belmed, Inc. 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, misused, or misapplied; (2) repaired, altered or modified by persons other than Belmed, Inc. (3) not installed in strict compliance with applicable codes and ordinances; or (4) not installed by Belmed, Inc. or an authorized Belmed, Inc. dealer.

UNDER NO CIRCUMSTANCES SHALL BELMED, INC. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES AS THOSE TERMS ARE DEFINED IN THE UNIFORM COMMERCIAL CODE.



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