

INSTALLATION INSTRUCTIONS FOR 6200-1K CHECK VALVE REPAIR KIT

Service primary and secondary check valve assemblies.

The Oxygen and Nitrous Oxide primary and secondary check valve assemblies may be removed and replaced with a new assembly.

Service Primary check valve – May be serviced with station pressurized to 50 PSI.

1. Remove front plate.
2. Unscrew the primary check valve assembly. Oxygen right hand threads; Nitrous Oxide left hand threads. **Note: the secondary check valve will move into position and seal the 50 PSI of the station pressure as the primary check valve assembly is removed.**



WARNING

Do not remove the cartridge body while servicing the primary check valve assembly. The secondary check valve cannot seal the 50 PSI pressure if the cartridge body is removed.

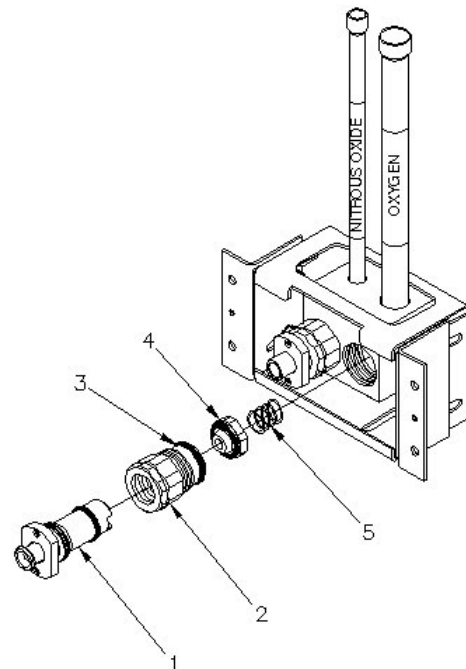
3. Replace the entire assembly.
4. Screw the replaced assembly into the cartridge body.
5. Alignment and Adjustment for Front Cover Plate Installation – The Oxygen and Nitrous Oxide Valve Bodies are designed to allow for the back of the Front Plate to press against the metal surfaces of both valve bodies. If adjustment is needed:

Rotate the Oxygen and Nitrous Oxide valve bodies so they both uniformly contact the back of the Front Plate when it is installed. Oxygen has right hand threads and Nitrous Oxide has left hand threads.

6. Leak test the entire system for working pressure leaks per the Monthly Check.

Parts:

- 1) Primary Check Valve Assembly
O₂ A-2689-000; N₂O A-2690-000
- 2) Cartridge Body
- 3) 016 O-ring PB-102-215
- 4) Secondary Check Valve Assembly
- 5) Compression Spring PB-115-63SS



SERVICE SECONDARY CHECK VALVE



WARNING

To service the secondary check valve, first turn off pressure. Do not remove the cartridge body until the pressure is bled off. The secondary check valve cannot seal the 50 PSI pressure if the cartridge body is removed.

1. Turn off pressure at tanks in tank room.
2. Follow procedure to remove primary check valve assembly.
3. Depress secondary check valve further into station block using a small probe or screw driver to bleed off pressure.
4. Unscrew cartridge body out of the station block.
5. Take a small screw driver or needle nose pliers and insert into holes at the center of secondary check valve. Carefully remove check valve and spring.
6. Replace the 016 o-ring and secondary check valve parts as required and place in position for reassembly.
7. Screw in the cartridge body and tighten.
8. Screw in the primary check valve assembly and align and adjust for front plate installation.
9. Leak test the entire system for working pressure leaks per the Monthly Check.

MAINTENANCE AND SERVICE

Use scavenging. Monitor for N₂O in the operatory to insure that controls are effective in achieving low levels of ppm (parts per million) exposure. Contact your Porter dealer for details on monitors and testing.

Inspect and maintain the analgesia delivery system to prevent N₂O leaks in all hoses, connections and fittings. Repair all leaks immediately.

MONTHLY CHECK

Leak test the entire system for working pressure leaks. Connect an 8060 series duplex connector and hoses into the Outlet Station. Attach the other end of the hoses to a flowmeter and turn the flow control knobs to the off position and the on/off switch to the off position.

Pressurize the sedation gas supply lines with 50 PSI. Observe any pressure decay after 12 hours. This 50 PSI test with the flowmeter

tubing connections in place tests the seal of the duplex connector extended into the o-rings of the outlet station primary check valves. (5 PSI drop allowed.)

CONNECTIONS TO FLOWMETER OPERATING INSTRUCTIONS

Flowmeter Gas Supply Tubing is connected to the Outlet Station via a quick connect coupler. The Porter 8060 series duplex connector simultaneously connects the Oxygen and Nitrous Oxide tubing, and prevents the Nitrous Oxide from being connected unless the Oxygen is connected.

QUICK CONNECTING

You may quick connect to the station when the system pressure is at its normal 50 PSI; the primary check valves seal this pressure. The coupler has a locating latch. Simply insert the coupler into the appropriate check valve and confirm the latch is in place behind the catch feature of the valve. A gentle tug on the coupler will confirm a stable latch position. Internally, within the primary check valve, an o-ring seals against a poppet. The same o-ring seals against the quick connect extensions upon insertion. Slide the latch out of position to remove the connector and the internal poppet will automatically move back into its sealing position.

RESUSCITATOR

Remove the duplex connector so a resuscitator quick connect may be inserted into the oxygen station position.



WARNING

Dental workers are exposed to N₂O during administration of N₂O/O₂ conscious sedation analgesia. NIOSH has recommended that exposures should be minimized. Contact NIOSH (1-800-35-NIOSH) to receive NIOSH Publications on *Control of Nitrous Oxide in Dental Operatories*. Exposure can be minimized by effective controls. National Institute for Occupational Safety and Health (NIOSH) publications state that controls, including System Maintenance, Ventilation and Work Practices can effectively reduce N₂O concentrations in dental operations. Your Porter Scavenger System is an important part of the system of controls.