Pattons medical

Medical Gas Outlets

Installation and Maintenance Manual

Model Number:	
Date Purchased:	
Purchased from:	

For further technical assistance, service or replacement parts, please contact:

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Patton's Medical reserves the right to make changes and improvements to update products sold previously without notice or obligation.

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INTRODUCTION

Patton's Inc., now owned and operated by ELGi USA, began selling custom medical air packages to hospitals in 1980. For years we sold Quincy compressors to the local medical market. Knowing we had to expand our product line, we became a distributor for Powerex in 2003. For the next five years, we were one of their leading distributors for medical gas equipment. In 2012 ELGi USA purchased Patton's Inc. and Patton's Medical as an entre into the US marketplace for their industrial products as well diversification into the medical equipment business.

Deciding to sell and service our own medical gas equipment nationwide, we created Patton's Medical in 2008. This does not mean Patton's Medical is the "new kid on the block."We hired some of the best in the medical gas business with extensive backgrounds in sales, marketing, manufacturing and engineering. Within a short period of time, we were able to create a company and product line that is second to none in the industry. Although the influx of this new talent brought new ideas, products and direction to the company, our "old fashion" commitment to customer service is steadfast.

In order to provide the best equipment for the expanding medical market, we acquired collaborative developmental rights to sell Hitachi Bebicon and Scroll compressors. We knew these compressors had been used for over twenty years in the medical market and had proven to be extremely reliable. With this came the ability to sell parts and service for existing equipment that utilize the Hitachi pumps.

In addition to medical air compressors, we knew we had to offer medical vacuum. After extensive research of vacuum companies and vacuum pumps we chose Busch Vacuum pumps for their excellent reputation in the medical arena. We build multiplex vacuum packages utilizing oil-less rotary vane, lubricated rotary vane and oil-less rotary claw pumps.

Today, a premier offering of medical air and vacuum equipment is manufactured in our Charlotte facility. Additionally, we have embarked on a complete Medical Gas pipeline offering as Patton's Medical. Our products meet or exceed NFPA 99 and CSA standards in addition to being U.L. listed. If our standard products do not exactly fit your requirements, we will work with you to develop special packages to comply with your particular specifications or applications.
Our mission is to be the leading innovator, deliverer, and manufacturer in the world of Medical Gas products. We strive to do this through constant examination of our processes and service to our customers.

We are committed to quality and innovation; we look forward to working with you and your needs to be your preferred partner for Medical Gas Equipment.

While we strive to grow our business, we know the importance of customer relationships, business relationships and providing the best equipment to meet the customer's needs. Our focus will continue to be on our customers. Lead by our product knowledge, experience and dedication to you, we will strive to provide the right equipment for any medical gas application that is specified by you.

Product Description

A complete Patton's Medical Outlet is made up to two separate components, the "Back-Body Assembly" and the "Latch-Valve Mechanism". The "Back-Body Assembly" is designed to be unique to each specific gas but is interchangeable within all "same-gas" outlet types (D.I.S.S, Ohmeda, Puritan-Bennett or Chemetron compatibles).

The gas specific "Back-Body Assembly" includes a check valve that permits removal of the "Latch-Valve Mechanism" for service without requiring the pipeline to be shut down.

A 6" long, 3/8" nom. dia. Medical gas copper tube, per NFPA specifications, is brazed into the body for external pipeline connections. The "Back-Body Assembly" is marked with color-coded labeling on the front plate and on the copper pipe so that the installer can easily identify the correct gas when making the installation. The Patton's Medical gas outlet is designed with a gas specific dual pin indexing arrangement to prevent an incorrect gas "Latch-Valve Mechanism: from being installed into a "Back-Body Assembly".

Patton's Medical Gas Outlets (wall and ceiling styles only may be ganged together in 5" [127mm] center to center assemblies providing one attractive module of all medical gases without the additional expense of a headwall or console.

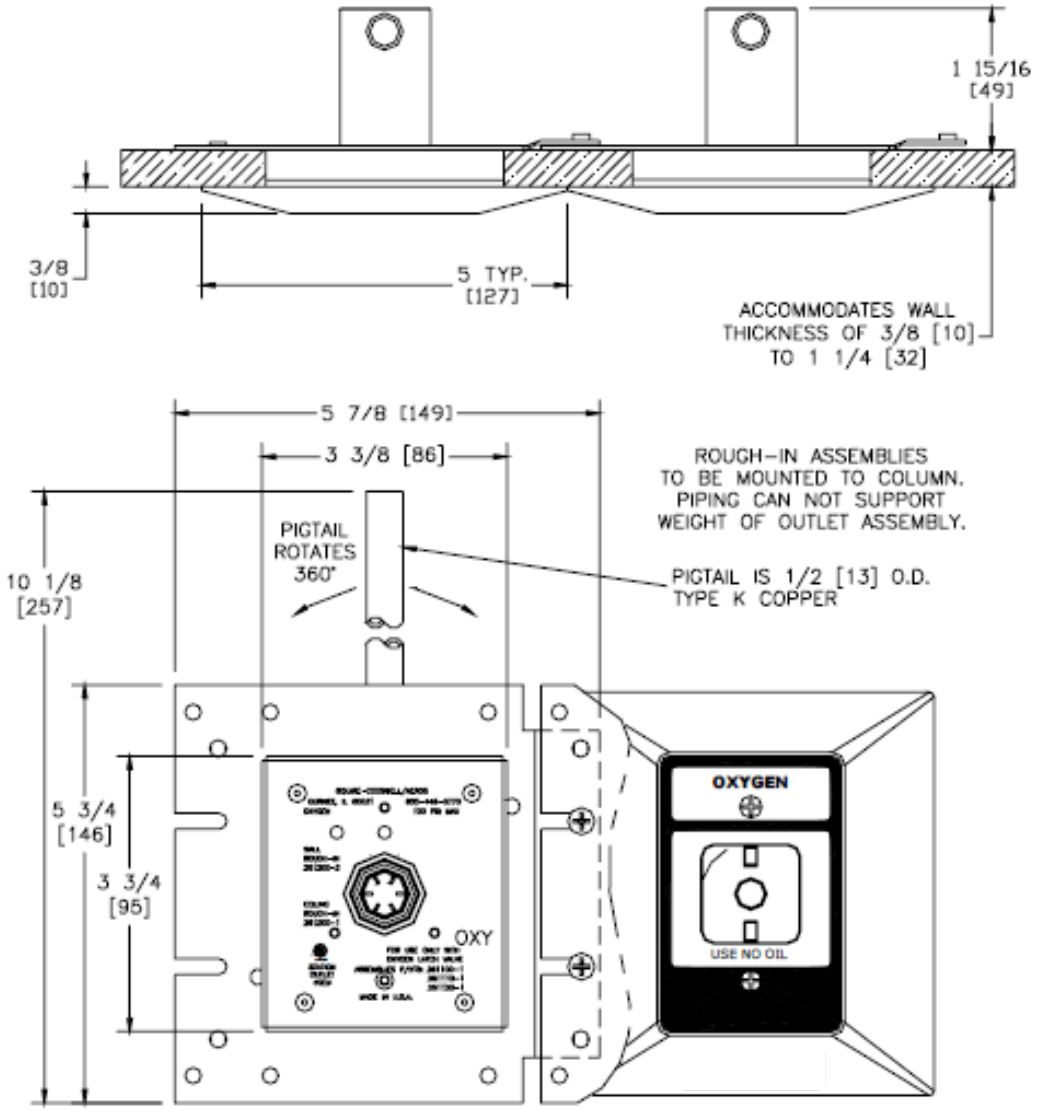
It is the "Latch-Valve Mechanism" which determines which type of adapter that the completed outlet assembly will accept. The "Latch-Valve Mechanism" is available in four different offerings; D.I.S.S. Type, Quick-Connect Ohmeda Compatible, Puritan-Bennett Compatible and Quick Connect Chemetron Compatible. The "Latch-Valve Mechanism" consists of a connector with an internal check valve, an indexing assembly and a color-coded gas specific front plate. A trim plate is also included for wall and ceiling outlets. The "Latch-Valve Mechanism" is designed and manufactured so that its gas specific characteristics cannot be altered during normal use, service or maintenance. The "Latch-Valve Mechanism" is inserted into the "Back-Body Assembly" and secured with plated steel screws to complete the outlet assembly.

The Quick-Connect models are compatible with Ohmeda Diamond, Puritan-Bennett or Chemetron Quick-Connect adapters and only the correct corresponding gas type of adapters can be used with the Quick-Connect outlets.

Since the "Back-Body Assembly" is the same for all types of "Latch-Valve Mechanisms" of the same gas, the Patton's Medical Gas Outlets can easily be converted from one adapter type to another by simply replacing the "Latch-Valve Mechanism".

WALL OUTLETS

D.I.S.S TYPE, OHMEDA COMPATIBLE, PURITAN-BENNETT COMPATIBLE AND CHEMETRON COMPATIBLE

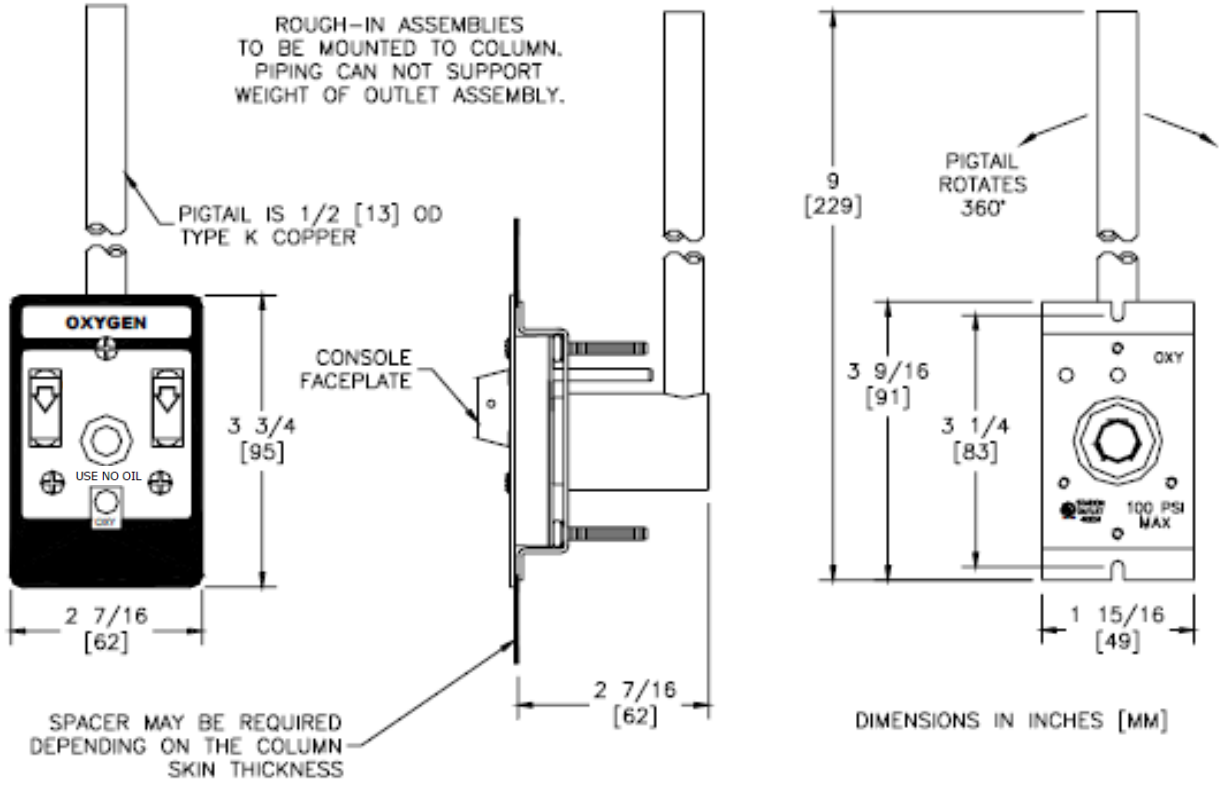


NOTES:

1. Do not cover over the Back-Body Assembly during the drywall and plaster application. Ensure that the clear plastic cover over the Back-Body Assembly is securely in place until the " Latch-Valve Mechanism" can be installed.
2. For W.A.G.D. (Evacuation) and vacuum gases, a round tubing plug and a plug retainer plate are in stalled on the Back-Body Assembly since a secondary check valve does not exist for these gases. Do not remove these components until the latch valve mechanism is to be installed.

CONSOLE OUTLETS

D.I.S.S TYPE, OHMEDA COMPATIBLE, PURITAN-BENNETT COMPATIBLE AND CHEMETRON COMPATIBLE

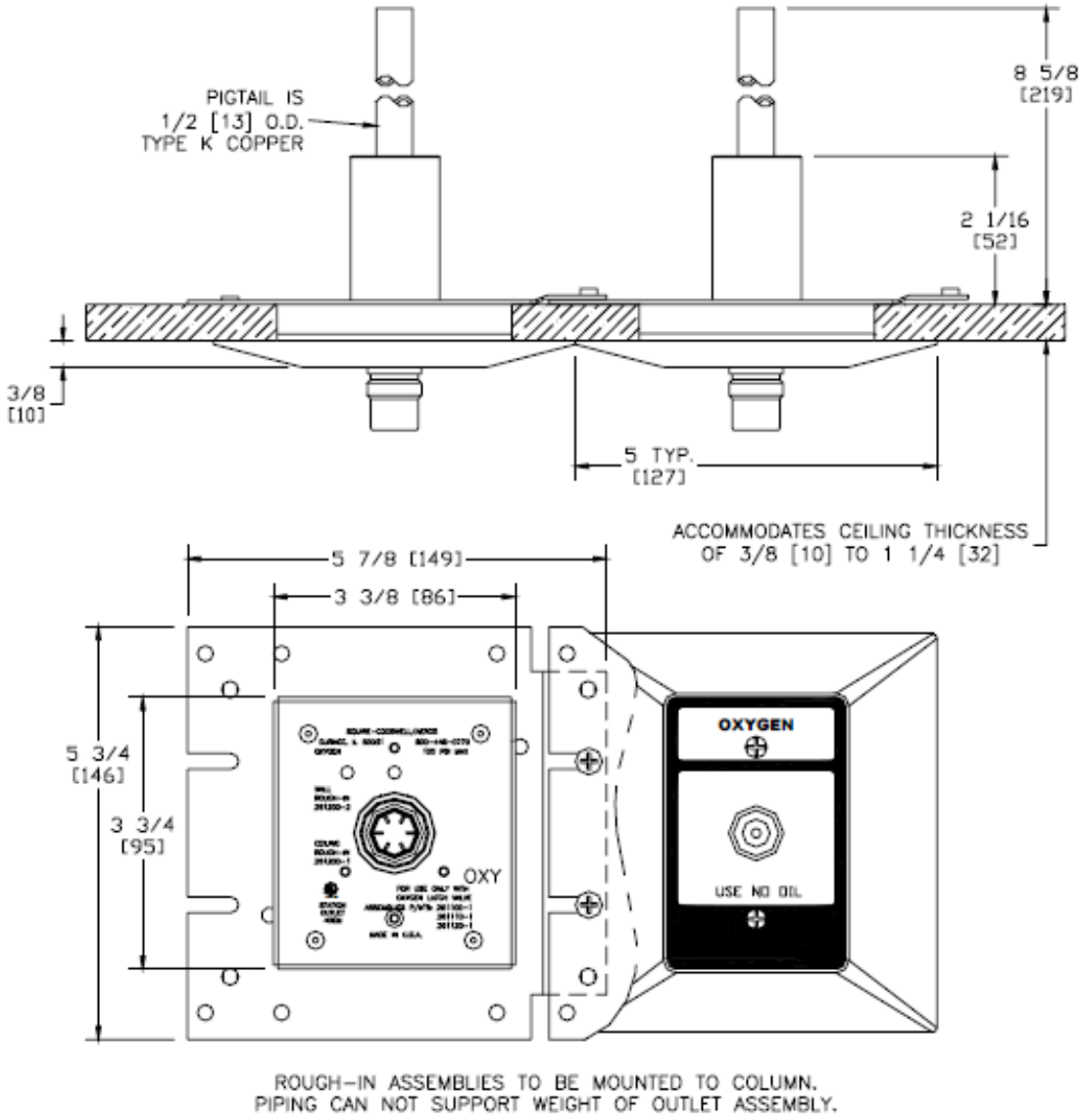


NOTES:

1. For W.A.G.D. (Evacuation) and vacuum gases, a round tubing plug and a plug retainer plate are in stalled on the Back-Body Assembly since a secondary check valve does not exist for these gases. Do not remove these components until the latch valve mechanism is to be installed.

CEILING OUTLETS

D.I.S.S TYPE



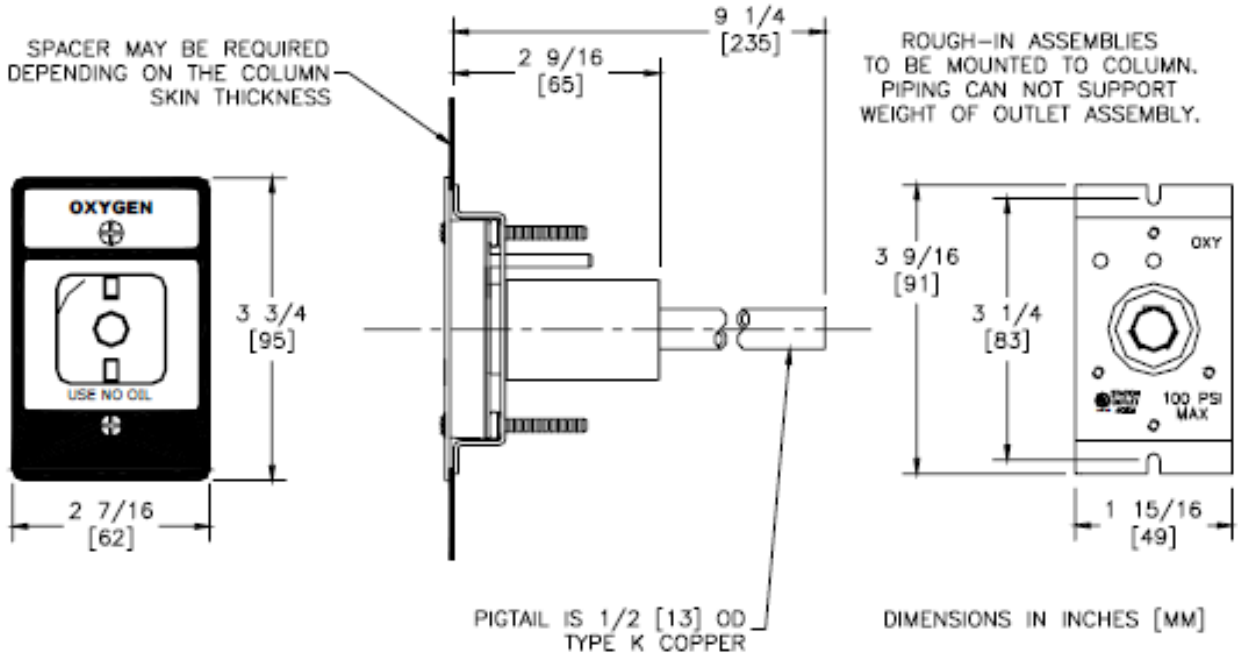
ROUGH-IN ASSEMBLIES TO BE MOUNTED TO COLUMN.
PIPING CAN NOT SUPPORT WEIGHT OF OUTLET ASSEMBLY.

NOTES:

1. Do not cover over the Back-Body Assembly during the drywall and plaster application. Ensure that the clear plastic cover over the Back-Body Assembly is securely in place until the " Latch-Valve Mechanism" can be installed.
2. For W.A.G.D. (Evacuation) and vacuum gases, a round tubing plug and a plug retainer plate are in stalled on the Back-Body Assembly since a secondary check valve does not exist for these gases. Do not remove these components until the latch valve mechanism is to be installed.

CEILING COLUMN OUTLETS

D.I.S.S TYPE, OHMEDA COMPATIBLE, PURITAN-BENNETT COMPATIBLE AND CHEMETRON COMPATIBLE



NOTES:

1. For W.A.G.D. (Evacuation) and vacuum gases, a round tubing plug and a plug retainer plate are in stalled on the Back-Body Assembly since a secondary check valve does not exist for these gases. Do not remove these components until the latch valve mechanism is to be installed.

MEDICAL GAS OUTLETS
COMPLETE ASSEMBLY PART NUMBERS

OHMEDA Compatible Outlet Assemblies

	WALL	CONSOLE	CEILING COLUMN
OXYGEN	O1-QDWAL-OXY	O1-QDCON-OXY	O1-QDCOL-OXY
VACUUM	O1-QDWAL-VAC	O1-QDCON-VAC	O1-QDCOL-VAC
MEDICAL AIR	O1-QDWAL-AIR	O1-QDCON-AIR	O1-QDCOL-AIR
N2O	O1-QDWAL-N2O	O1-QDCON-N2O	O1-QDCOL-N2O
WAGD	O1-QDWAL-WAG	O1-QDCON-WAG	O1-QDCOL-WAG
NITROGEN	O1-QDWAL-NIT	O1-QDCON-NIT	O1-QDCOL-NIT
CARBON DIOXIDE	O1-QDWAL-CO2	O1-QDCON-CO2	O1-QDCOL-CO2
INSTRUMENT AIR	O1-QDWAL-IA	O1-QDCON-IA	O1-QDCOL-IA

CHEMETRON Compatible Outlet Assemblies

	WALL	CONSOLE	CEILING COLUMN
OXYGEN	O1-CHWAL-OXY	O1-CHCON-OXY	O1-CHCOL-OXY
VACUUM	O1-CHWAL-VAC	O1-CHCON-VAC	O1-CHCOL-VAC
MEDICAL AIR	O1-CHWAL-AIR	O1-CHCON-AIR	O1-CHCOL-AIR
N2O	O1-CHWAL-N2O	O1-CHCON-N2O	O1-CHCOL-N2O
WAGD	O1-CHWAL-WAG	O1-CHCON-WAG	O1-CHCOL-WAG
NITROGEN	O1-CHWAL-NIT	O1-CHCON-NIT	O1-CHCOL-NIT
CARBON DIOXIDE	O1-CHWAL-CO2	O1-CHCON-CO2	O1-CHCOL-CO2
INSTRUMENT AIR	O1-CHWAL-IA	O1-CHCON-IA	O1-CHCOL-IA

PURITAN BENNETT Compatible Outlet Assemblies

	WALL	CONSOLE	CEILING COLUMN
OXYGEN	O1-PBWAL-OXY	O1-PBCON-OXY	O1-PBCOL-OXY
VACUUM	O1-PBWAL-VAC	O1-PBCON-VAC	O1-PBCOL-VAC
MEDICAL AIR	O1-PBWAL-AIR	O1-PBCON-AIR	O1-PBCOL-AIR
N2O	O1-PBWAL-N2O	O1-PBCON-N2O	O1-PBCOL-N2O
WAGD	O1-PBWAL-WAG	O1-PBCON-WAG	O1-PBCOL-WAG
NITROGEN	O1-PBWAL-NIT	O1-PBCON-NIT	O1-PBCOL-NIT
CARBON DIOXIDE	O1-PBWAL-CO2	O1-PBCON-CO2	O1-PBCOL-CO2
INSTRUMENT AIR	O1-PBWAL-IA	O1-PBCON-IA	O1-PBCOL-IA

D.I.S.S. Compatible Outlet Assemblies

	WALL	CONSOLE	CEILING	CEILING COLUMN
OXYGEN	O1-DIWAL-OXY	O1-DICON-OXY	O1-DICEI-OXY	O1-PBCOL-OXY
VACUUM	O1-DIWAL-VAC	O1-DICON-VAC	O1-DICEI-VAC	O1-PBCOL-VAC
MEDICAL AIR	O1-DIWAL-AIR	O1-DICON-AIR	O1-PDICEI-AIR	O1-PBCOL-AIR
N2O	O1-DIWAL-N2O	O1-DICON-N2O	O1-DICEI-N2O	O1-PBCOL-N2O
WAGD	O1-DIWAL-WAG	O1-DICON-WAG	O1-DICEI-WAG	O1-PBCOL-WAG
NITROGEN	O1-DIWAL-NIT	O1-DICON-NIT	O1-DICEI-NIT	O1-PBCOL-NIT
CARBON DIOXIDE	O1-DIWAL-CO2	O1-DICON-CO2	O1-DICEI-CO2	O1-PBCOL-CO2
INSTRUMENT AIR	O1-DIWAL-IA	O1-DICON-IA	O1-DICEI-IA	O1-PBCOL-IA

LATCH-VALVE MECHANISM & BACK-BODY ASSEMBLY PART NUMBERS

"LATCH-VALVE MECHANISM" Part Numbers

	D.I.S.S.	OHMEDA COMPATIBLE	CHEMETRON COMPATIBLE	PURITAN-BENNETT COMPATIBLE
OXYGEN	O1-FBDI-OXY	O1-FBQD-OXY	O1-FBCH-OXY	O1-FBPB-OXY
VACUUM	O1-FBDI-VAC	O1-FBQD-VAC	O1-FBCH-VAC	O1-FBPB-VAC
MEDICAL AIR	O1-FBDI-AIR	O1-FBQD-AIR	O1-FBCH-AIR	O1-FBPB-AIR
N2O	O1-FBDI-N2O	O1-FBQD-N2O	O1-FBCH-N2O	O1-FBPB-N2O
WAGD	O1-FBDI-WAG	O1-FBQD-WAG	O1-FBCH-WAG	O1-FBPB-WAG
NITROGEN	O1-FBDI-NIT	O1-FBQD-NIT	O1-FBCH-NIT	O1-FBPB-NIT
CARBON DIOXIDE	O1-FBDI-CO2	O1-FBQD-CO2	O1-FBCH-CO2	O1-FBPB-CO2
INSTRUMENT AIR	O1-FBDI-IA	O1-FBQD-IA	O1-FBCH-IA	O1-FBPB-IA

"BACK-BODY ASSEMBLY" Part Numbers

	WALL	CONSOLE	CEILING	CEILING COLUMN
OXYGEN	O1-BAKWAL-OXY	O1-BAKCON-OXY	O1-BAKCEI-OXY	O1-BAKCOL-OXY
VACUUM	O1-BAKWAL-VAC	O1-BAKCON-VAC	O1-BAKCEI-VAC	O1-BAKCOL-VAC
MEDICAL AIR	O1-BAKWAL-AIR	O1-BAKCON-AIR	O1-BAKCEI-AIR	O1-BAKCOL-AIR
N2O	O1-BAKWAL-N2O	O1-BAKCON-N2O	O1-BAKCEI-N2O	O1-BAKCOL-N2O
WAGD	O1-BAKWAL-WAG	O1-BAKCON-WAG	O1-BAKCEI-WAG	O1-BAKCOL-WAG
NITROGEN	O1-BAKWAL-NIT	O1-BAKCON-NIT	O1-BAKCEI-NIT	O1-BAKCOL-NIT
CARBON DIOXIDE	O1-BAKWAL-CO2	O1-BAKCON-CO2	O1-BAKCEI-CO2	O1-BAKCOL-CO2
INSTRUMENT AIR	O1-BAKWAL-IA	O1-BAKCON-IA	O1-BAKCEI-IA	O1-BAKCOL-IA

INSTALLATION NOTES

- On all wall and console outlets the connecting pipe can be rotated a full 360 degrees for ease of connection to the facility gas piping.

- Excessive heat during soldering may damage the secondary check valve; when soldering the pipe connection take extreme care not to apply heat to the check unit body.

- When installing wall outlets, it is very important to keep the plastic protective cover on the "Back-Body Assembly" in place during construction, to protect the outlet from drywall compound or other contaminants.

- For W.A.G.D. (Evacuation) and vacuum gases, a round tubing plug and a plug retainer plate are installed on the Back-Body Assembly since a secondary check valve does not exist for these gases. Do not remove these components until the latch valve mechanism is to be installed.

- When installing the "Latch-Valve Mechanism", remove the protective cover from the "Back-Body Assembly" and inspect for dirt or debris in the outlet body. Carefully clean out any contaminants necessary.

- The "Latch-Valve Mechanism" should slide smoothly into the "Back-Body Assembly". If it does not, inspect to verify that there has been no damage to the indexing pins. If the indexing pins are bent or damaged the gas specific characteristics of the outlet may be compromised. In this instance the entire "Latch-Valve Mechanism" should be replaced.\

- All "Latch-Valve Mechanisms" with the exception of Nitrogen D.I.S.S. have a maximum pressure rating of 100 PSI [690 kPa]. The Nitrogen D.I.S.S. Latch-Valve Mechanism has a maximum pressure rating of 200 PSI [1,380 kPa].

- After the installation medical gas pipeline systems should be tested in accordance with the NFPA recommendations and/or in compliance with local requirements.

- The "Back-Body Assemblies" may be pressure tested up to a maximum of 200 PSI [1,380 kPa] without the "Latch-Valve Mechanism" installed. DO NOT PRESSURE TEST THE PIPELINE OVER 100 PSI [690 kPa] IF THE "LATCH VALVE MECAHNISM" HAS BEEN INSTALLED.

SERVICING CAUTIONS

Before performing any service or maintenance on any outlet, the appropriate hospital maintenance or engineering personnel should be notified.

The "Latch-Valve Mechanism" can be removed without interrupting service to other outlets on the same pipeline for all gases other than vacuum, however when servicing the "Back-Body Assembly" the supply pressure must be shut off to the entire zone.

SERVICING INSTRUCTIONS
D.I.S.S. TYPE "LATCH-VALVE MECHANISM"

1. Unscrew the two retaining screws **(I)** until the "Latch-Valve Mechanism" can be re moved from the outlet.

2. Remove the Adapter O-Ring seal **(A, B or C)** from the front and replace (NOTE: There is no O-Ring for Oxygen or Evac).

3. Remove the retaining ring **(E)** using the appropriate internal snap ring pliers.

4. Remove the valve stem **(G)**, Primary Check O-Ring **(H)**, primary check valve **(D)** and check valve spring **(F)**. Inspect the items for wear or damage and replace if needed. Re place the O-Ring.

5. Reinstall all internal components and lock in place with the retaining ring.

6. Reinstall the "Latch-Valve Mechanism" into the outlet. Coat the valve body, with a thin coat of oxygen compatible silicone lubricant to aid insertion. Tighten down the retaining screws, **DO NOT OVER TIGHTEN**, as this could damage the Latch-Valve.

7. Connect the proper gas specific adapter to the outlet. The connection should be smooth and hand tightening of the nut should be sufficient to allow the gas to flow without leak age.

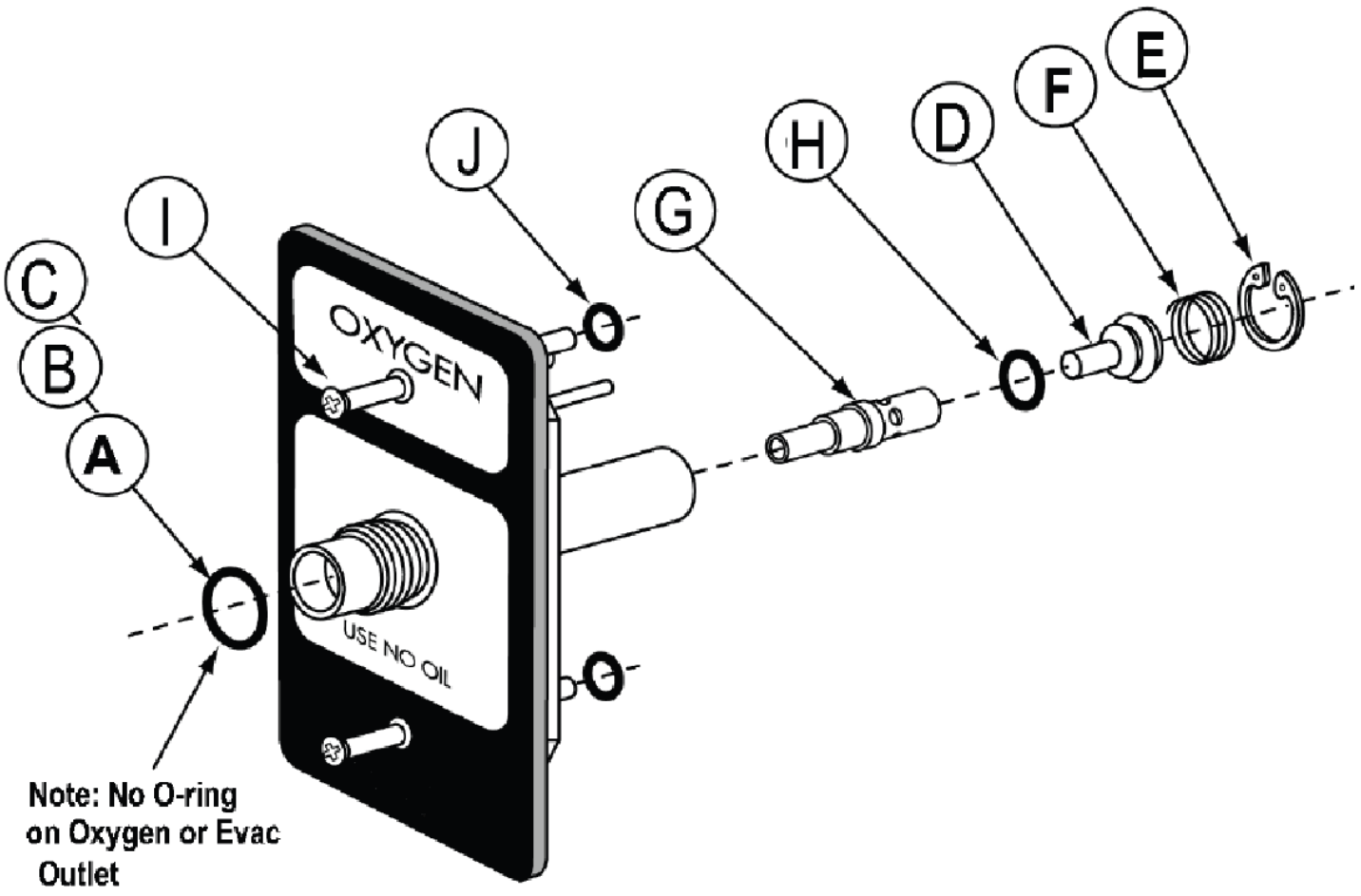
CAUTION: Use caution relative to the type and pressure of the gas so as not to cause injury.

8. If the assembly does not perform correctly with the adapter installed, replace the entire "Latch-Valve Mechanism".

REPLACEMENT PARTS

LATCH-VALVE MECHANISMS - D.I.S.S. TYPE OUTLETS

ITEM	DESCRIPTION	PART NUMBER
A	Adapter O-Ring - Vac	O1-DIARINGV
B	Adapter O-Ring - N2O	O1-CVORING
C	Adapter O-Ring - Air/N2, CO2	O1-DIAORINGANC
D	Primary Check Valve	O1-PCV
E	Retaining Ring	O1-RETRING
F	Check Valve Spring	O1-CVS
G	Valve Stem (Oxygen)	O1-DIVSO
(not shown)	Valve Stem (Vac, EVAC)	O1-DIVSVE
(not shown)	Valve Stem (Air, N2O, N2, CO2)	O1-DIVSA2NC
H	Primary Check Valve O-Ring	O1-CVORING
I	Retaining Screw (2 Req'd)	O1-SCREW
J	Screw Retaining O-Ring (2 Req'd)	O1-SRORING



SERVICING INSTRUCTIONS
OHMEDA COMPATIBLE "LATCH-VALVE MECHANISM"

1. Unscrew the two retaining screws **(L)** until the entire "Latch-Valve Mechanism" can be removed from the outlet.

2. Remove the four screws **(O)** holding the connector retaining plate **(A)** in place. Remove the plate.

3. Remove the valve body **(B)** from the valve assembly.

4. Remove the U-spring **(N)**, inspect for wear or damage, reinstall or replace the U-spring as necessary.

5. Remove the flat washer **(I)** and valve body O-Ring **(J)** from the front of the valve body. Inspect the items for wear or damage and replace the O-Ring seal **(J)**.

6. Remove the retaining ring **(F)** using appropriate snap ring pliers. Remove the primary cap **(K)**, primary cap spring **(C)**, primary check valve O-Ring **(D)**, primary check valve **(E)** and spring **(H)**. Inspect all items for wear or damage and replace as necessary. Re place the O-Ring **(D)**.

7. Reinstall all internal components and lock in place with retaining ring **(F)**. Insert the valve body **(B)** into the latch valve body. Check that the U-Spring **(N)**, flat washer **(I)** and valve body O-Ring **(J)** are in place. Reinstall the retaining plate **(A)** and secure with four screws **(O)**, do not over tighten.

8. Reinstall the "Latch-Valve Mechanism" into the outlet. Coat the valve body **(B)**, with a thin coat of oxygen compatible silicone lubricant to aid insertion. Tighten down the retaining screws **(L)**, **DO NOT OVER TIGHTEN**, as this could damage the Latch-Valve.

9. Connect the proper gas specific adapter into the outlet. The connection should be smooth and the adapter should lock and remain in place allowing gas to flow.

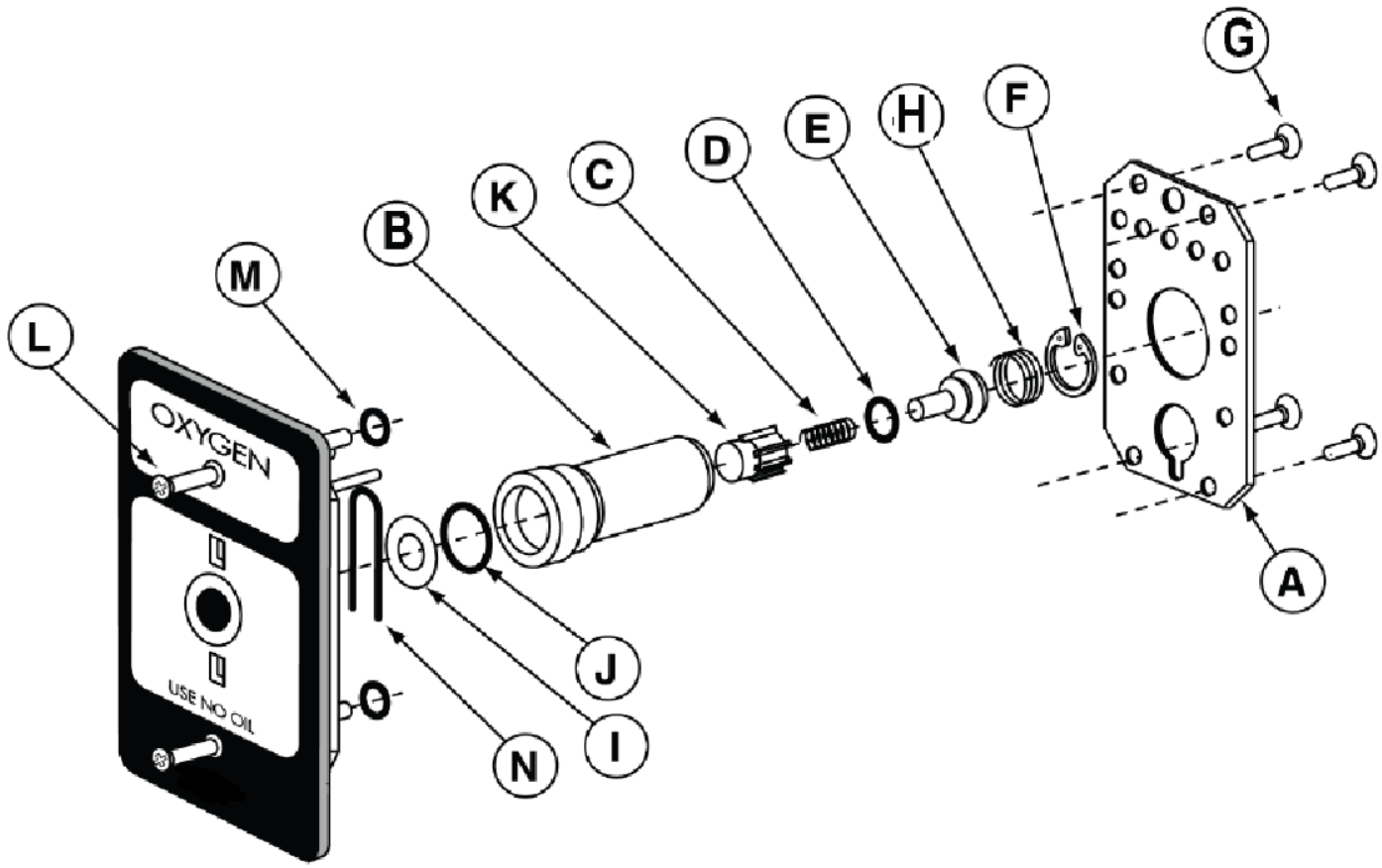
CAUTION: Use caution relative to the type and pressure of the gas so as not to cause injury.

10. If the assembly does not perform correctly with the adapter installed, replace the entire "Latch-Valve Mechanism".

REPLACEMENT PARTS

LATCH-VALVE MECHANISMS - OHMEDA COMPATIBLE OUTLETS

ITEM	DESCRIPTION	PART NUMBER
A	Plate	O1-PLATE
B	Valve Body	O1-VALVEBODY
C	Primary Cap Spring	O1-PCS
D	Check Valve O-Ring	O1-CVORING
E	Primary Check Valve	O1-PCV
F	Retaining Ring	O1-RETRING
G	Screw (4 Req'd)	O1-SCREW1
H	Check Valve Spring	O1-CVS
I	Flat Washer	O1-FLATWASH
J	Valve Body O-Ring	O1-VBORING
K	Primary Cap	O1-PRICAP
L	Screw (2 Req'd)	O1-SCREW
M	Screw Retaining	O1-SRORING
N	U-Spring	O1-QDUSPRING



SERVICING INSTRUCTIONS
PURITAN-BENNETT COMPATIBLE "LATCH-VALVE MECHANISM"

1. Unscrew the two mounting screws **(9)** until the entire "Latch-Valve Mechanism" can be removed from the outlet.

2. Remove the two screws **(8)** holding the retaining ring **(7)** in place. Remove the retaining ring.

3. Remove the connector **(6)** from the valve assembly.

4. Remove the seal ring **(3)**, check valve **(4)**, and valve spring **(5)** from connector **(6)**. Inspect all items for wear or damage and replace.

5. Reinstall all internal components and lock in place with seal ring **(3)**. Insert the connector body **(6)** onto the latch valve body **(1)**. Reinstall retaining ring **(7)** and secure with two screws **(8)**.

6. Reinstall the "Latch-Valve Mechanism" into the outlet. Coat the connector **(6)**, with a thin coat of oxygen compatible silicone lubricant to aid insertion. Tighten down the mounting screws **(9)**, **DO NOT OVER TIGHTEN**, as this could damage the Latch-Valve.

7. Connect the proper gas specific adapter into the outlet. The connection should be smooth and the adapter should lock and remain in place allowing gas to flow..

CAUTION: Use caution relative to the type and pressure of the gas so as not to cause injury.

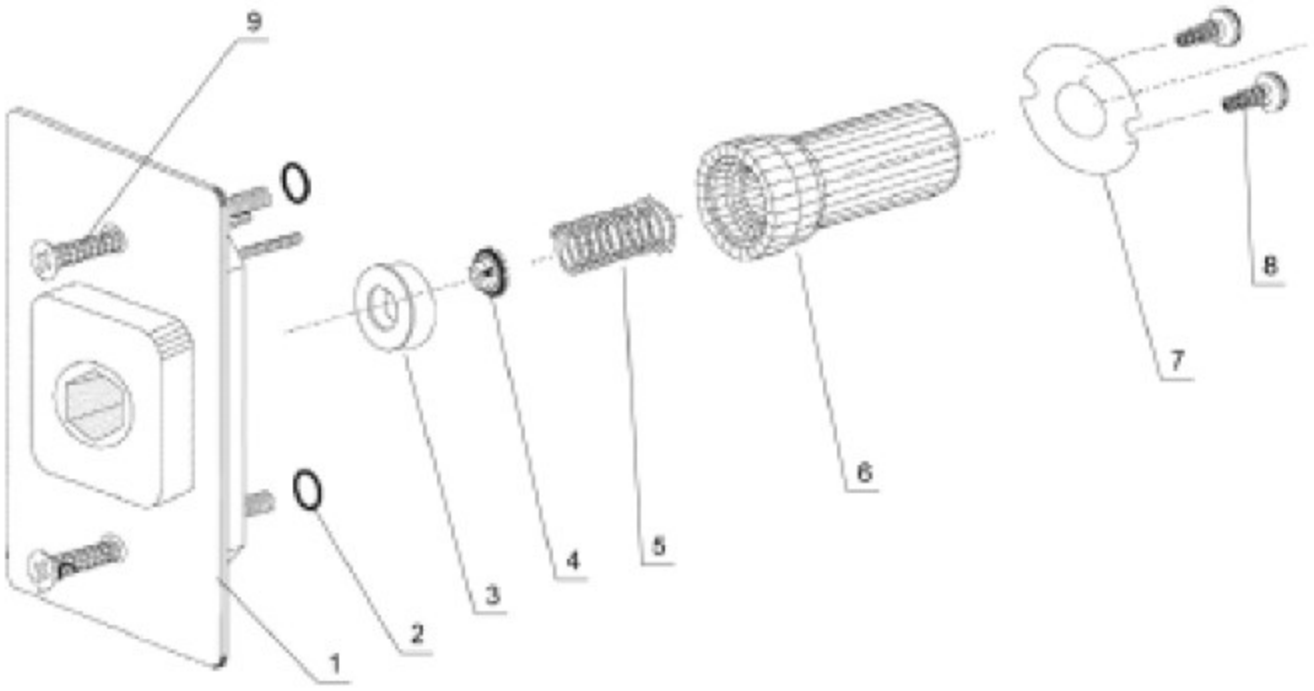
8. If the assembly does not perform correctly with the adapter installed, replace the entire "Latch-Valve Mechanism".

REPLACEMENT PARTS

LATCH-VALVE MECHANISMS - PURITAN BENNETT COMPATIBLE OUTLETS

ITEM	DESCRIPTION	PART NUMBER
3	Seal Ring	
4	Check Valve	
5	Valve Spring	
6	Connector	
7	Retaining Ring	
8	Screws	
9	Mounting Screw	
2	Mounting Screw O-Ring	
1	Panel Assembly, Oxygen	
1	Panel Assembly, Vacuum	
1	Panel Assembly, Medical Air	
1	Panel Assembly, N2O	
1	Panel Assembly, WAGD	

Seal Ring (#3)
Check Valve (#4)
Valve Spring (#5)



SERVICING INSTRUCTIONS
CHEMETRON COMPATIBLE "LATCH-VALVE MECHANISM"

1. Unscrew the three retaining screws **(M)** until the entire "Latch-Valve Mechanism" can be removed from the outlet.

2. Remove the four screws **(N)** holding the connector retaining plate **(A or B)** in place. Remove the plate.

3. Remove the valve body **(G)** from the valve assembly.

4. Remove the flat washer **(I)** and valve body O-Ring **(J)** from the front of the valve body. Inspect the items for wear or damage and replace the O-Ring seal **(J)**.

5. Remove the retaining ring **(F)** using appropriate snap ring pliers. Remove the primary cap **(K)**, primary cap spring **(C)**, O-Ring seal **(D)**, primary check valve **(E)** and spring **(H)**. Inspect all items for wear or damage and replace as necessary. Replace the O-Ring **(D)**.

6. Reinstall all internal components and lock in place with retaining ring **(F)**. Insert the valve body **(B)** into the latch valve body. Check that the flat washer **(I)** and O-Ring **(J)** are in place. Reinstall the connector retaining plate **(A or B)** and secure with four screws **(N)**, do not over tighten.

7. Reinstall the "Latch-Valve Mechanism" into the outlet. Coat the valve body **(B)**, with a thin coat of oxygen compatible silicone lubricant to aid insertion. Tighten down the retaining screws **(M)**, **DO NOT OVER TIGHTEN**, as this could damage the Latch-Valve.

8. Connect the proper gas specific adapter into the outlet. The connection should be smooth and the adapter should lock and remain in place allowing gas to flow.

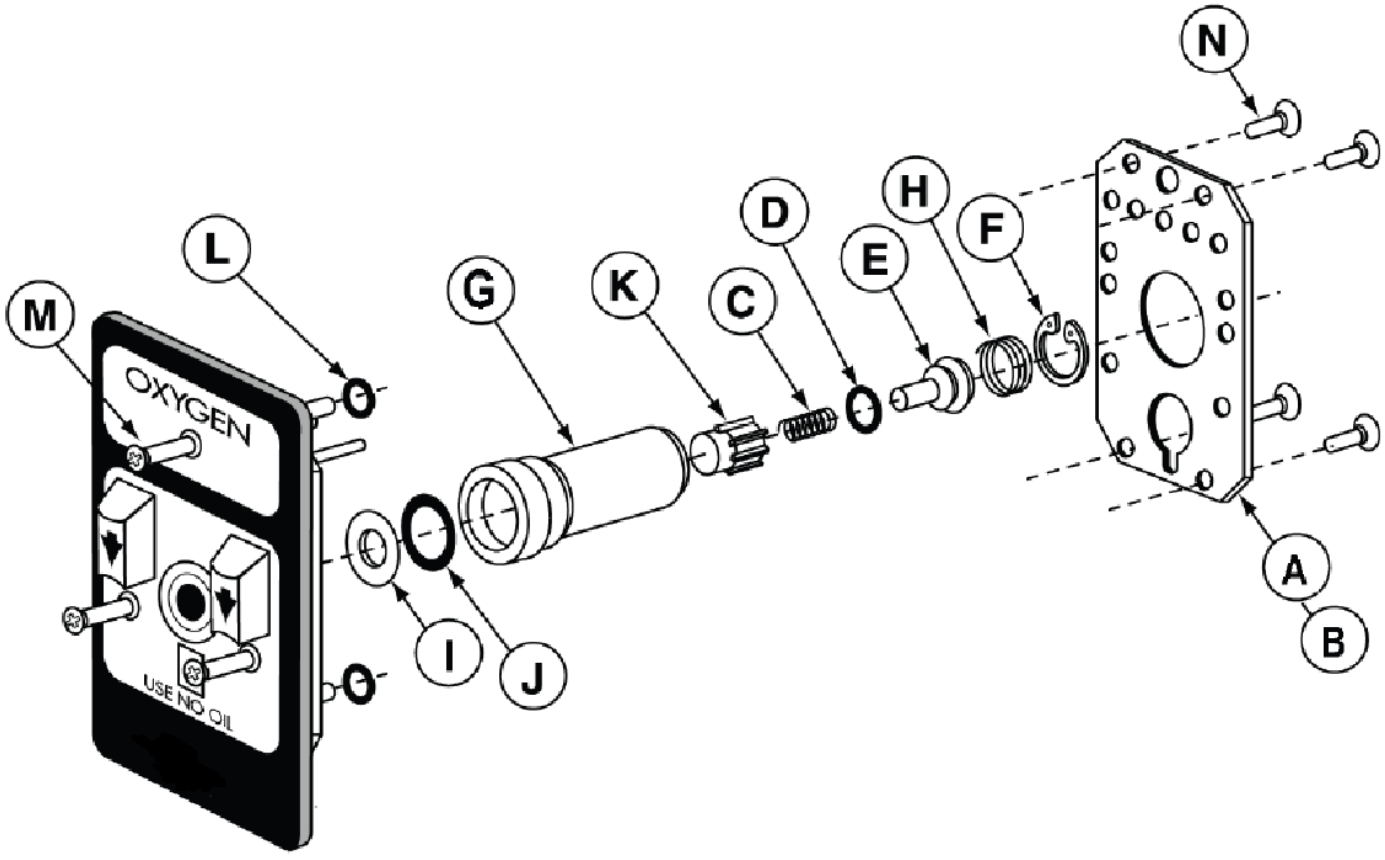
CAUTION: Use caution relative to the type and pressure of the gas so as not to cause injury.

9. If the assembly does not perform correctly with the adapter installed, replace the entire "Latch-Valve Mechanism".

REPLACEMENT PARTS

LATCH-VALVE MECHANISMS - CHEMETRON COMPATIBLE OUTLETS

ITEM	DESCRIPTION	PART NUMBER
A	Plate- All Gases Except Evac	O1-PLATE
B	Plate—Evac	O1-CHPLATEEVAC
C	Primary Cap Spring	O1-PCS
D	Check Valve O-Ring	O1-CVORING
E	Primary Check Valve	O1-PCV
F	Retaining Ring	O1-RETRING
G	Valve Body	O1-VALVEBODY
H	Check Valve Spring	O1-CVS
I	Flat Washer	O1-FLATWASH
J	Valve Body O-Ring	O1-VBORING
K	Primary Cap	O1-PRICAP
L	Screw Retaining O-Ring	O1-SRORING
M	Screw (3 Req'd)	O1-SCREW
N	Screw (4 Req'd)	O1-SCREW1



SERVICING INSTRUCTIONS
"BACK-BODY ASSEMBLY" - ALL OUTLETS

Inside the "Back-Body Assembly" is a secondary check valve that performs the function of shutting off the gas flow for all pressurized gases when the "Latch-Valve Mechanism" is removed. This seat/seal also prevents leaks around the latch-valve connector.

Back-Body Assemblies for vacuum and evacuation gases do not contain a secondary check valve. If it becomes necessary to remove the Latch Valve mechanism from these outlets for service, the Back-Body Assembly must be plugged with a 3/4" round tubing plug (or equivalent) to prevent excessive draw on the vacuum pump.

The secondary seal will rarely need replacement. However, if the seat/seal does need replacement follow the following procedure:

CAUTION: Ensure that the supply pressure is shut off before performing maintenance on the "Back-Body Assembly".

1. **Ensure that no pressure exists in the assembly or pipeline by depressing the secondary check valve (C) until all gas pressure has been relieved from isolated piping zone. Nitrous Oxide and Carbon Dioxide must not be vented near staff or patients.**

2. Remove the retaining ring **(D)** from the inside of the outlet body.

3. Remove the washer **(E)**, seat/seal **(F)**, secondary check valve ***(C)** and secondary check valve spring ***(B)**. Inspect all items for wear or damage and replace the seat/seal **(F)**; replace other components as necessary.

4. Reinstall the spring ***(B)**, secondary check valve ***(C)**, seat/seal **(F)** and the washer **(E)**. Insert the retaining ring **(D)** into the slot and ensure that the ring is seated properly.

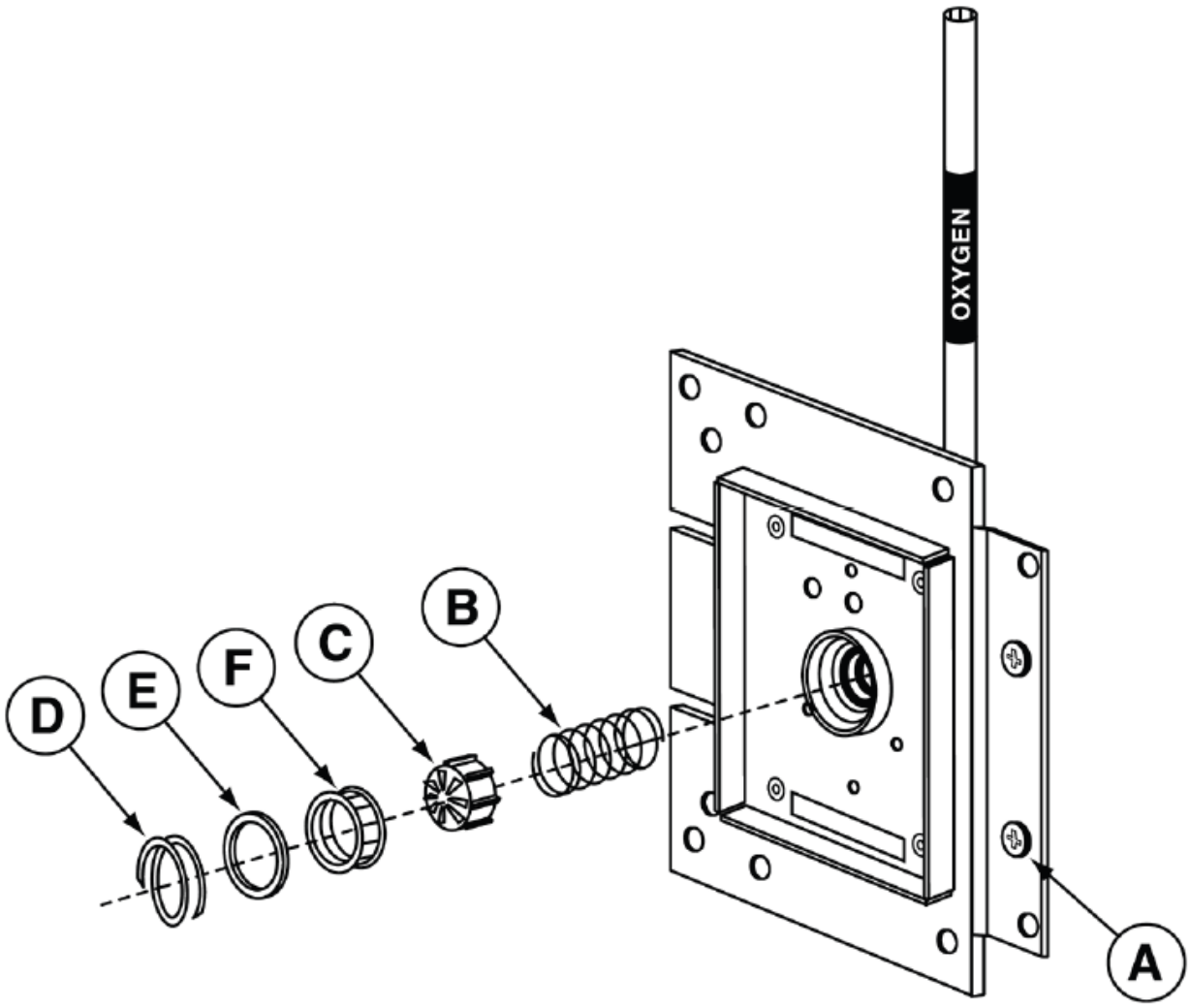
5. Carefully restore pressure to the pipeline and check for leaks.

9. Reinstall the "Latch-Valve Mechanism" and perform appropriate inspection and testing as recommended by NFPA and local requirements.

REPLACEMENT PARTS

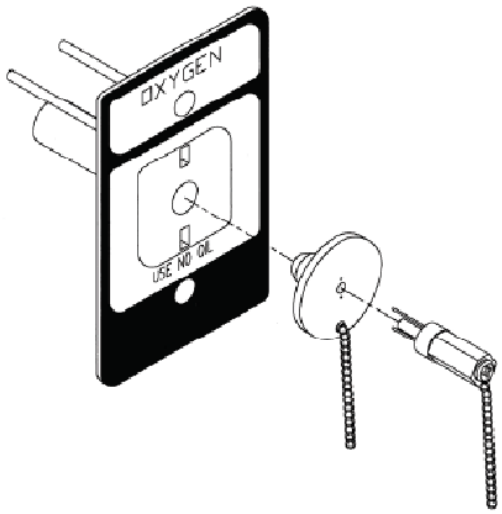
BACK-BODY ASSEMBLY - ALL OUTLETS

ITEM	DESCRIPTION	PART NUMBER
A	Screw-Wall Outlet (2)	O1-SCREWWALL
B	Secondary Check Valve Spring	O1-SCVS
C	Secondary Check Valve	O1-SCV
D	Retaining Ring	O1-BBRETRING
E	Washer	O1-WASHER
F	Seat/Seal	O1-SEATSEAL



OPTIONAL EQUIPMENT:

Ohmeda Locking Device



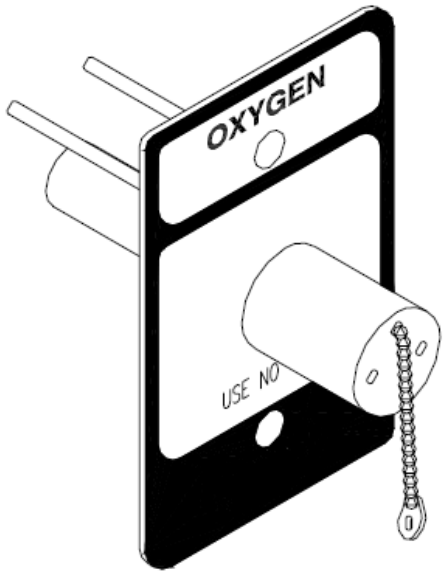
The Locking Kit shall prevent tampering of the internal primary check valve, located in the latch valve assembly.

The locking kit consists of a chrome plated locking cap which plugs into the Ohmeda outlet. Inserting and turning the key will pop off the lock and allow flow of the gas.

Part Numbers:

O1-LOCK-QD	Ohmeda Locking Kit (all gases)
O1-LOCK-QD-KEY	Key for Ohmeda Locking Kit

D.I.S.S. Locking Device



The Locking Kit shall prevent tampering of the internal primary check valve, located in the latch valve assembly.

The locking kit consists of a chrome plated threaded cap which screws into the DISS outlet. Inserting and turning the key will pop off the lock and allow flow of the gas.

Part Numbers:

O1-LOCK-DISS	DISS Locking Kit (all gases except Oxygen and Evac)
O1-LOCK-DISS-OXY	DISS Locking Kit for Oxygen
O1-LOCK-DISS-KEY	Key

NOTES:

NOTES:

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