The OMNIValve offers medical customers a single solution for oxygen delivery to patients ending the necessity for stocking both oxygen cylinders and regulator devices throughout their facilities, and ending the additional labor of monitoring empty and full cylinders, and attaching regulators to cylinders. Most important, the OMNIValve provides medical technicians a simple-to-operate device with straightforward remaining oxygen content gauge minimizing the risk to have an empty cylinder when time is critical during emergencies.

Harrison designed the most common OMNIValve with a solid brass, chrome plated one-piece construction that delivers customers a very durable all-in-one oxygen delivery system for years of service life. The OMNI Valve is available in many configurations to service all medical facilities including medical offices, hospitals, and EMS. Special order anodized aluminum units are available with custom engraving for private label applications.

Harrison Valve™ has longstanding experience in designing and manufacturing products for multiple compressed gas markets, critical applications, and OEM customers, and its operations focus exclusively on producing the highest quality valve products at uncompromised value. Harrison Valve™ products are produced to meet or exceed the highest US and international standards.

Harrison Valve is a global supplier of precision valve products serving a broad range of applications, industries, and markets. Harrison Valve manufacturers a full line of high-pressure cylinder valves including industrial, medical, residual pressure, acetylene, and specialty products. Harrison Valve is the fastest growing cylinder valve manufacturer in the world today.
OMNIValve

Outstanding Features

- Easy-to-read cylinder contents gauge in rubber boot and enclosed guard
- Positive click liter flow dial
- Easy to carry valve protection carry handle
- Chrome plated oxygen delivery cannula
- Solid brass one-piece design (Anodized aluminum is available special order)
- High luster, chrome plated finish for cleanliness
- 50PSI constant flow DISS outlet
- Special order custom logo and anodized color choices on aluminum models
- CGA540 fill port with check valve, no shut off valve is required
- Dual purpose protective CGA540 fill port dust cap attaches to DISS outlet for easy purging
- OMNI Valve exceeds CGA E-18 standards. All regulators pass ASTM G175 ignition tests.
- OMNI Valve is available for aluminum and steel cylinders

OMNIValve is manufactured in FDA registered manufacturing facilities.
- All processes and procedures are followed to the ISO9001:2000 standards.
- Precision machining tolerances deliver the most accurate performance and reliability.
- User can initiate flow with a simple turn of the positive click liter flow dial.
- OMNIValve liter per minute flow is top of class at +/- 10% accuracy by independent testing laboratories.
- High quality chrome plated, solid brass construction for superior strength and durability. Special order anodized aluminum models are available.
- All OMNI Valves exceed CGA E-18 standards. All regulators pass the ASTM G175 ignition tests.
- Ergonomically designed carry handle simplifies lifting and cylinder handling, meets drop tests, and protects the regulator body and gauge from damage.
- All models are supplied with a barb and 50PSI constant flow DISS outlet.
- The check valve fill port is pressure operated with standard soft tip CGA540 hand tight filling adaptor. Purging, evacuation and fill is accomplished with the single connection.
- All units are serial numbered for traceability.
- Private label options.

Standard Liter Flow Available

<table>
<thead>
<tr>
<th>Liter Per Minute</th>
<th>Positive Click Settings</th>
<th>Typical Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 LPM</td>
<td>0, 1/4, 1/2, 1, 2, 3, 4, 6, 8, 10, 15, 25</td>
<td>EMS, Hospital, Homecare, Pediatric</td>
</tr>
<tr>
<td>15 LPM</td>
<td>0, 1/4, 1/2, 1, 2, 3, 4, 6, 8, 10, 12, 15</td>
<td></td>
</tr>
<tr>
<td>4 LPM</td>
<td>0, 1/32, 1/16, 1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 3, 4</td>
<td></td>
</tr>
</tbody>
</table>

Specifications

- Maximum Working Pressure: 3000PSI
- Standard Operating Pressure: 2015PSI
- Standard Safety Device: 3360PSI, CG4, 185F fusible metal
- Dimensions: 6”H x 4”W x 3.75”D
- Operating Temperature: -13-140F
- Brass Model Weight: 2lbs 6oz
- Aluminum Model Weight: 2lbs
The OMNIValve by Harrison Precision Valve Products, is a revolutionary and compact integrated medical valve and regulator (All-In-One) system designed for all medical applications. The OMNIValve, like all Harrison products, exceeds the highest international standards for performance and reliability.

The standard OMNIValve is designed from a solid brass one piece construction offering the most durable product to the market.

### OMNI Valve for Aluminum Cylinders

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Material</th>
<th>Inlet</th>
<th>Fill Port</th>
<th>DISS</th>
<th>Liter Per Minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-3-4-3360-25</td>
<td>Chrome plated brass</td>
<td>.750-16UNF2A</td>
<td>CGA540</td>
<td>Yes</td>
<td>25LPM</td>
</tr>
<tr>
<td>OMNI-3-4-3360-15</td>
<td>Chrome plated brass</td>
<td>.750-16UNF2A</td>
<td>CGA540</td>
<td>Yes</td>
<td>15LPM</td>
</tr>
<tr>
<td>OMNI-3-4-3360-4</td>
<td>Chrome plated brass</td>
<td>.750-16UNF2A</td>
<td>CGA540</td>
<td>Yes</td>
<td>4LPM</td>
</tr>
</tbody>
</table>

### OMNI Valve for Steel Cylinders

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Body Material</th>
<th>Inlet</th>
<th>Fill Port</th>
<th>DISS</th>
<th>Liter Per Minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-4-4-3360-25</td>
<td>Chrome plated brass</td>
<td>½&quot; NGT</td>
<td>CGA540</td>
<td>Yes</td>
<td>25LPM</td>
</tr>
<tr>
<td>OMNI-4-4-3360-15</td>
<td>Chrome plated brass</td>
<td>½&quot; NGT</td>
<td>CGA540</td>
<td>Yes</td>
<td>15LPM</td>
</tr>
<tr>
<td>OMNI-4-4-3360-4</td>
<td>Chrome plated brass</td>
<td>½&quot; NGT</td>
<td>CGA540</td>
<td>Yes</td>
<td>4LPM</td>
</tr>
</tbody>
</table>
The OMNIValve by Harrison Precision Valve Products, is a revolutionary and compact integrated medical valve and regulator (All-In-One) system designed for all medical applications. The OMNIValve, like all Harrison products, exceeds the highest international standards for performance and reliability.

For customers requiring custom colors and logos, the OMNIValve is available special order with an aluminum sleeve over brass internal core to allow eye catching anodizing and laser engraving.
The OMNIValve is available with a wide selection of aluminum medical cylinders. Aluminum cylinders are the cylinder of choice in the medical industry due to their clean finish and lightweight characteristics.

<table>
<thead>
<tr>
<th>Model Number Description</th>
<th>Model Number Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-540E-25LPM</td>
<td>OMNI-540E-25LPM</td>
</tr>
<tr>
<td>OMNI-540JD-25LPM</td>
<td>OMNI-540JD-25LPM</td>
</tr>
<tr>
<td>OMNI-540D-25LPM</td>
<td>OMNI-540D-25LPM</td>
</tr>
<tr>
<td>OMNI-540M9-25LPM</td>
<td>OMNI-540M9-25LPM</td>
</tr>
<tr>
<td>OMNI-540M6-25LPM</td>
<td>OMNI-540M6-25LPM</td>
</tr>
</tbody>
</table>

* For systems with 4 or 15LPM, replace the 25 to the appropriate liter flow.
Overview

The OMNI Valve (Integrated Medical Valve and Regulator) is a cylinder mounted flow control regulator and cylinder valve combination designed to deliver oxygen at safe operating levels. Oxygen flow control regulators are intended for the administration of oxygen to patients who need to improve their breathing conditions. Some models can also be used in emergency situations. In an emergency situation, always contact a physician or Emergency Medical Services immediately.

Use

The OMNI Valve must be stored with the flow control knob in the “OFF” position to cease any oxygen flow. Turn the flow control knob counter clockwise until the knob reads “OFF”.

Adjust the flow setting by turning the flow control knob clockwise until the desired setting (LPM – Liter Per Minute) shows through the selection window. The standard flow settings for the 0-25LPM model include 12 click positions. The positions are OFF, ½, 1, 2, 3, 4, 5, 6, 8, 10, 15, 25.

When the operating pressure of the cylinder falls below 300PSI, it is recommended to exchange the cylinder as soon as possible for a full pressurized cylinder.

Turn off the system, turn the flow control knob counter clockwise, or to the left, until the “OFF” position shows through the selection window.

Installation to a high pressure aluminum cylinder

Before installing the OMNI Valve onto a cylinder, be sure the cylinder is free of any debris and is cleaned for medical oxygen service. Inspect the cylinder and OMNI valve connection threads for debris and damage. If any thread damage is visible, put the cylinder or OMNI valve aside until they can be serviced by a qualified service center.

Inspect the white Teflon cylinder valve seal (which is provided with a new unit) and be sure it is placed on the threads at the base of the OMNI valve in the proper seated location. Hand Tighten the OMNI valve into the cylinder carefully to prevent cross threading. The OMNI valve should thread easily to the cylinder without binding.

Definitions

Purging

To purge the cylinder of any remaining residual oxygen, remove the CGA540 protective fill cap from the CGA540 filling port and attach it to the DISS outlet constant flow outlet. In conjunction, set the regulator to the highest flow setting of 25LPM. This process will empty the contents of the OMNI Valve system to ambient pressure by purging the gas through the DISS outlet and flowing oxygen through the regulator barb. Once the cylinder reaches ambient pressure, remove the CGA540 protective fill cap from the DISS outlet and set the regulator back to the “OFF” position.

Vacuum and filling

You may now continue the evacuation and fill process by connecting the CGA540 filling adaptor to the fill port. Make sure all fittings are tight before vacuum or pressure supply valves are opened. The OMNI Valve is equipped with an internal, one way, self opening valve that will allow the filling of the cylinder, and will automatically shut off during the disconnection of the fill adaptor/fill hose.

NOTE: It is normal for there to be some venting of trapped oxygen during the disconnection of the fill hose. This venting should stop within the first half of a turn of the CGA540 nut. If there is continued leakage from the fill fitting following disconnection, the unit may be damaged and require service.

SPECIAL NOTES:

NEVER try to repair, disassemble, or modify this unit in any capacity. All repairs should be made by qualified and approved regulator technicians. Please consult your dealer, distributor, and/ or physician with any questions or concerns that are not covered by this instruction manual.

This unit is not designed to be MRI compatible.