



GAS CYLINDER CONTAINMENT VESSELS



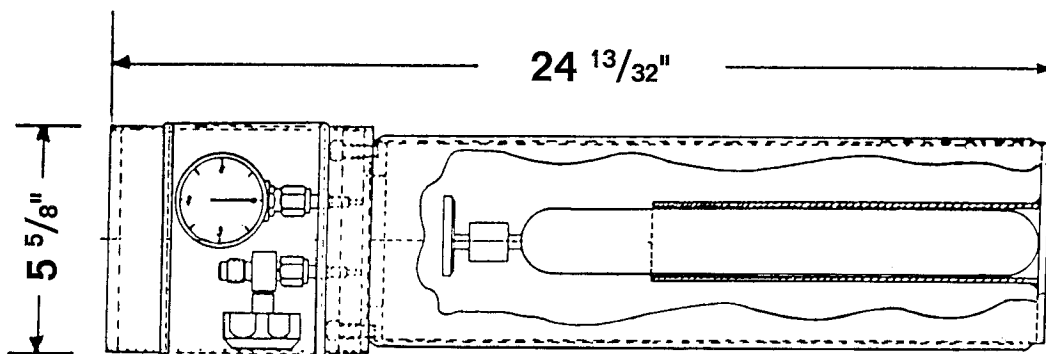
- SAFELY STORES ONE CYLINDER
- HOLDS ENTIRE GAS CONTENTS
- SAFEGUARDS AGAINST LEAKERS
- STAINLESS STEEL INTERIOR
- COMPOSITE CONSTRUCTION
- VERY LIGHT WEIGHT
- EXTREMELY STRONG

The containment vessel allows the user to safely carry the Ion Implant cylinder with its contents throughout a semiconductor production facility or other research facility such as a university. Two standard sizes are available to fit the 7X size cylinder and a larger unit to fit the 4X size cylinder.

As a cylinder is placed into the containment vessel, the unit is sealed with an o-ring seal. The containment unit has a stainless steel, compound (vacuum and pressure) gauge and one stainless steel, diaphragm valve. All fittings on the unit are VCR. Space age composite construction techniques are used to impart great strength and light weight to the containment system. The unit is fabricated of type 304L stainless steel and the circumference is wrapped with "E" type fiberglass winding. The containment unit will withstand a 5000 PSI burst should the cylinder rupture under some extraordinary condition. Under normal circumstances involving a leaking 7X or 4X size cylinder of gas or liquefied gas, the containment vessel will easily hold the entire contents within a very great safety margin. The unit

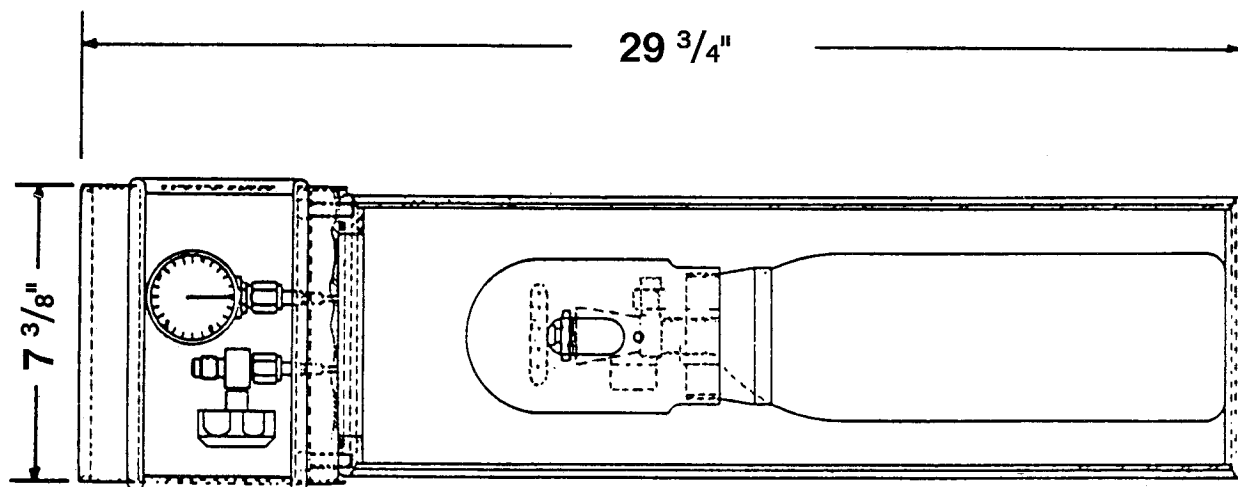
is completely heliarc welded, hydrostatically tested and gas tight. The relatively light weight of these vessels (see specifications for details) allows for easy handling and carrying. The unit is designed to be used within the semiconductor facility as well as anywhere on the semiconductor plant site, such as the waste treatment area. They are especially useful for safely transporting hazardous gas cylinders throughout the interior of a facility.

These vessels allow increased sensitivity in leak checking gas cylinders. Essentially all leaking molecules of gas are held in the containment vessel and are not lost to air diffusion. The stainless steel interior allows use with corrosive halogen gases. Vessels are compatible with all ion implant process gases. Use of the containment vessel allows compliance with new stiffer safety regulations. One of the most important advantages of these vessels is the safe containment of all of the leaked gas contents until the user is ready for disposal. Gas flow out of the vessel is easily controlled by means of the valve.



MODEL 7X SPECIFICATIONS:

DIMENSIONS: 24 $\frac{13}{32}$ " L x 5 $\frac{5}{8}$ " OD
 WEIGHT: 18.0 LBS.
 VOLUME: 5.0 LITERS



MODEL 4X SPECIFICATIONS:

DIMENSIONS: 29 $\frac{3}{4}$ " L x 7 $\frac{3}{8}$ " OD
 WEIGHT: 42.0 LBS.
 VOLUME: 12.0 LITERS

GENERAL SPECIFICATIONS:

- 304 STAINLESS STEEL AND FIBERGLASS/ EPOXY COMPOSITE CONSTRUCTION
- SUITABLE FOR STORAGE AND TRANSPORTATION
- STAINLESS STEEL DIAPHRAGM VALVE
- STAINLESS STEEL COMPOUND GAUGE
- ALL VCR CONNECTIONS
- O-RING SEAL (NITRILE RUBBER)

OPTIONS:

- NICKLE CHROME PLATED CART (AS SHOWN IN PHOTO)
- O-RING SEAL (OTHER ELASTOMERS)

MADE IN THE U.S.A.

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