

Dewar Parts

Ratermann Manufacturing's repair program will help you get your assets back in service.



INDEX

Dewar Parts

- Adhesive Wipes **1B-8**
- Bench Manifold **1B-3**
- Dewar Labels **1B-8**
- Burst Discs **1B-4, 9-11**
- CGA Dust Caps **1B-13**
- CGA Liquid Fittings **1B-12**
- CGA Valve I.D. Disk **1B-16**
- Check Valves for
Cryogenic Dewars **1B-12**
- Custom Print 360° Tape **1B-16**
- Cylinder Repair Seminar **1B-2**
- Dual Relief Kit **1B-5**
- Economizers **1B-6-7,10-11**
- Regulator Tamper Device. **1B-14**
- Float Rods **1B-8**
- Label Buffer **1B-17**
- Liquid Level Gauge **1B-9-11**
- Liquid Level Gauge
Conversion Kit **1B-8**
- Medical Gas Valve Labels **1B-16**
- NER/VacChecker **1B-3**
- Netting **1B-17**
- Operational Labels **1B-15**
- Pipe Away Adapter **1B-18**
- Pressure Gauges **1B-4, 9-11**
- Pressure Reliefs **1B-9-11,14,18**
- Pressure Relief I.D. Disk **1B-19**
- Pressure Relief Labels **1B-19**
- Rego Valve Rebuilt Kits **1B-5-6**
- Regulators **1B-6-7**
- RMI Retrofit Contents
Gauge for MVE Chart **1B-20**
- Short Stem Shut-off Valves **1B-5**
- Shoulder Labels **1B-15**
- Sight Gauge Protectors **1B-9-11**
- Stainless Steel Regulator
Tamper Proof Device **1B-14**
- Teflon Tape & Paste **1B-13**
- Valve Labels **1B-16**

IN-HOUSE TOP END LIQUID CYLINDER REPAIR 101 SEMINAR

Quit Paying Expensive Repair Bills and Do It Yourself at a Fraction of the Cost

Sign Up for an Exclusive Hands-on Dewar Training Seminar



CONTROL VALVES & PRESSURE / ECONOMIZER REGULATORS

You'll learn

- How to Rule Out a Vacuum Problem
- How to Perform a Quick and Accurate NER Test
- How to Identify Problems and Make Necessary Repairs
- Repair, Cleaning and Replacement of Valve Parts (Repair Kits) and CGA Fittings
- Fitting Locking Devices (Anti-Tampering)
- Proper Alignment of Valve Bodies and Tubes
- Repair, Operation, and Replacement of All Major Types of Pressure Building, Economizer and Dual Combination Type Regulators
- Bench Testing of Regulator Settings
- Copper Tubing
- Tamper-Proofing of Regulator Adjusting Screws



<
During the "hands on" portion of the class, we can perform repairs with your personnel and in many cases, actually have one or more your containers ready to go back into the field the same day.



"In my years of experience in this industry I have attended several dewar schools. Ratermann however provided a seminar which was very easy to digest and I could immediately apply in the real working world setting vs. being over technical and unable to comprehend – as from a textbook setting."

*Bobby Buchan
 Acetylene Oxygen Co.*

PRESSURE GAUGES, SAFETY VALVES AND LIQUID LEVEL GAUGES

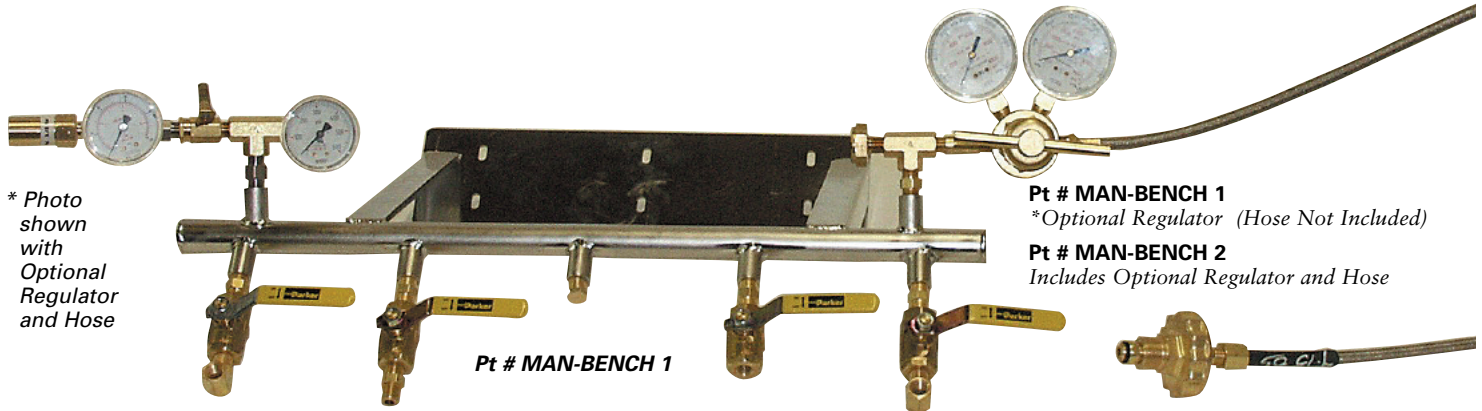
You'll learn

Bench Checking and Correct Pressure Requirements for Pressure Gauges and Safety Devices (Pop-off Valves & Burst Discs) based on each Cylinder's DOT Rating

Proper Repair and Set-up Techniques for All Types of Liquid Level Float and Magnetic Gauge Devices

BENCH MANIFOLD

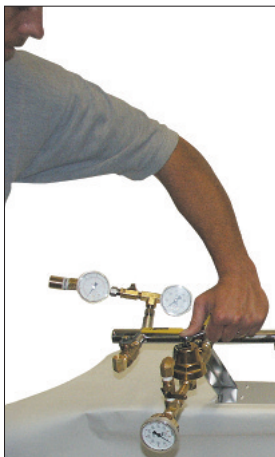
FOR TOP END LIQUID CYLINDER COMPONENTS



* Photo shown with Optional Regulator and Hose

Pt # MAN-BENCH 1
*Optional Regulator (Hose Not Included)

Pt # MAN-BENCH 2
Includes Optional Regulator and Hose



RATERMANN MANUFACTURING'S
Bench Manifold for Testing and Setting Dewar Components up to 700 PSI

- Regulators
- Economizers
- Pressure Reliefs and Burst Discs

ACCESSORIES

Pressure Checker For Standard Pressure Building Regulator. Used in conjunction with Bench Manifold.



Pt # MAN-PCPB



Pt # MAN-PCPBE

Pressure Checker For Combination Pressure Builder / Economizer Regulator. Used in conjunction with Bench Manifold.

NER/VacCHECKER METER

Analyze and Fix Your Own Dewars with the NER/VacChecker Meter

The first step in "Do-It-Yourself" Cryogenic Liquid Cylinder Repair is to **Simplify the NER / Vacuum Quality Tests**. You need an accurate, easy-to-use instrument that will reliably determine vacuum quality without the *repeated* weighing, calculating, and waiting over *several days* that is suggested by the manufacturers.

Here's How the NER / VacChecker Cryogenic Liquid Cylinder Vacuum Quality Indication Repair System Will Work for You...

The NER / VacChecker System comes with attached Info/Instruction Cards that list the average acceptable NER Values for all types of portable cryogenic liquid cylinders. By comparing the reading on the NER / VacChecker meter with the card you will quickly determine whether your tank has a Good Vacuum or not. If your tank has a good vacuum, you can, in virtually all cases, make the needed repair yourself, by using the Repair Instruction Booklet included with every NER / VacChecker shipped!

The Complete NER / VacChecker System Includes

- One-Stop-Shop Liquid Cylinder Parts Ordering Service
- Convenient Ordering and Technical Information

Part #	Description
NER-OXYGEN	For Oxygen use
NER-NITROGEN	For Nitrogen use
NER-ARGON	For Argon use

By using the process of repair elimination, first, to determine where the problem lies, you save the unnecessary cost and downtime of shipping tanks back to the manufacturers for simple repairs you can do yourself.



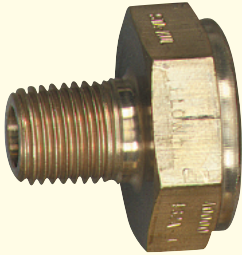
In-house Repair Program for Dewar Maintenance & Repair

The price of the NER / VacChecker System is less than the cost of *accidentally* shipping **one good vacuum tank** out for an unnecessary repairs.

It is the instrument that virtually pays for itself in savings to you!

DEWAR BURST DISCS

BURST DISCS

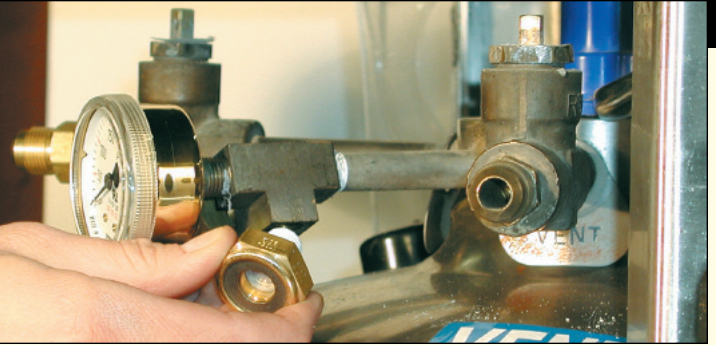


Burst Disc

Pressure Rupture Discs are Packaged, Cleaned and Tagged for Oxygen Service



Packaged Burst Disc



Burst Disc

Part #	Specifications	PSIG*	Dot 4L#
BD-22	175 PSIG @ 72° F MFG Range 168-187 PSIG @ 72° F	22	100-150
BD-235	350 PSIG @ 72° F MFG Range 336-375 PSIG @ 72° F	235	200-2
BD-350	500 PSIG @ 72° F MFG Range 480-535 PSIG @ 72° F	350	292
BD-500	670 PSIG @ 72° F MFG Range 665-700 PSIG @ 72° F	500	412

* Maximum vessel working pressure

GAUGES FOR DEWAR – REAR MOUNT PRESSURE GAUGES



Pt # PG-400

Gauges are bagged and tagged for oxygen service and comply with the requirements of ASME B40.1 Level 1V clean lines.

Packaged Gauge



1/4" NPT Rear Mount Pressure Gauges

Part #	Description
PG-60	0-60 PSI
PG-100	0-100 PSI
PG-400	0-400 PSI
PG-600	0-600 PSI



DEWAR ACCESSORIES

REGO VALVE REBUILD KITS

Individually Packaged –
Cleaned For Oxygen Service



Pt # VR-RBK1

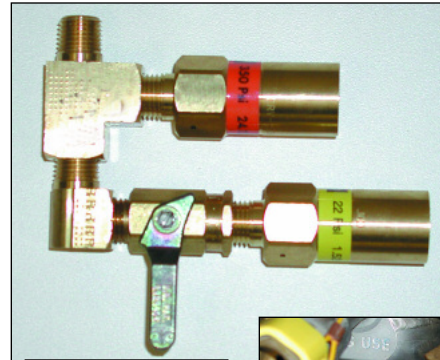


*Rego
Valve
Rebuild
Kit*

Rego Valve Rebuild Kit

Part #	Description
VR-RBK1	Valve Rebuild Kit

DUAL RELIEF KIT



Pt # PR-D2-22/350

*Isolation
Valve
Assembly
for
Pressure
Reliefs*

Use for quick conversion – from high pressure to low pressure.

Do not exceed the manufacturers pressure rating for which the vessel is designed.

Always use Higher Pressure Safety as the primary and Lower Pressure Safety as the default.



Dual Relief Kit with Pressure Relief

Part #	Description
PR-D2 22/235	22 PSI/235 PSI
PR-D2 50/235	50 PSI/235 PSI
PR-D2 100/235	100 PSI/235 PSI
PR-D2 22/350	22 PSI/350 PSI
PR-D2 50/350	50 PSI/350 PSI
PR-D2 100/350	100 PSI/350 PSI

**Some assembly required*

SHORT STEM SHUT-OFF VALVES

Application

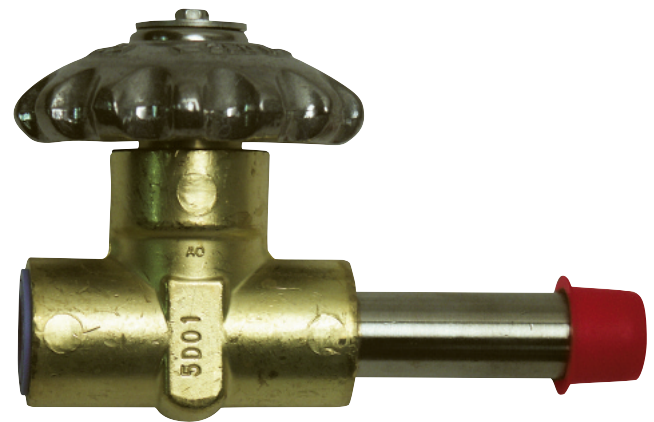
These valves are designed for use on portable cryogenic cylinders and other in-line shut-off valve applications.

Features

- Spring loaded stem seal automatically adjusts for any gasket wear, eliminating the need to constantly retighten the packing nut.
- Non-rising stem and low profile allow the valve to be opened and closed in tight areas and still provide easy access.
- Unique pressure-sealed moisture barrier helps prevent freeze up at cryogenic temperatures.
- Conical swivel seal design helps prevent seat assembly from over torquing.
- Cleaned for liquid oxygen service.
- Maximum working pressure is 600 PSI.
- Working temperature range is -320° to + 165°.

Materials

Body – Brass
Bonnet – Brass
Seal Disc – Kel-F®
Stem Seal Gasket – Teflon
Handwheel – Aluminum
Spring – Stainless Steel
Upper Stem – Brass
Lower Stem – Marignese Bronze



Pt # VR-38F338TB

Short Stem Shut-off Valves

Part #	Inlet	Outlet	Orifice	Length of Valve	Height (Approx.) of Valve	Tube Length	CV Factor
VR-14F14F	1/4" FNPT	1/4" FNPT	.250	2 1/2"	2 3/4"	None	.72
VR-38F38F	3/8" FNPT	3/8" FNPT	.406	2 1/2"	2 3/4"	None	1.08
VR-12F12F	1/2" FNPT	1/2" FNPT	.406	2 1/2"	2 3/4"	None	1.10
VR-38F118TB	.675 Tube	3/8" FNPT	.406	2 1/2"	2 3/4"	1 1/8"	1.08
VR-38F218TB	.675 Tube	3/8" FNPT	.406	2 1/2"	2 3/4"	2 1/8"	1.08
VR-38F338TB	.675 Tube	3/8" FNPT	.406	2 1/2"	2 3/4"	3 3/8"	1.08

DEWAR REGULATORS

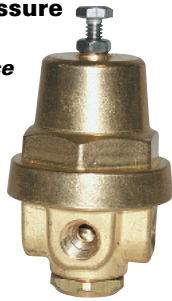
DUAL ECONOMIZER/REGULATOR

PBE-1 Combination Pressure Builder-Economizer

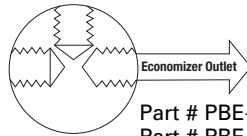
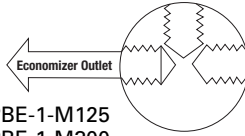
Cleaned for Oxygen Service

Forged brass body and spring chamber; brass and stainless steel trim. Teflon seat disc with Teflon/ Armalon or bronze diaphragm. Stainless steel pressure spring.

Temperature Rating
+150° (339°K) to -320° (78°K)



Part # PBE-1-M125
Part # PBE-1-M300



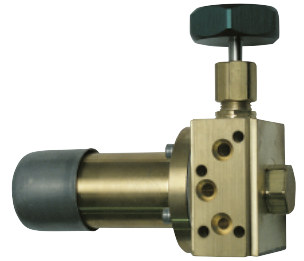
Part # PBE-1-T125
Part # PBE-1-T300

ADJUSTABLE CONTROL MANIFOLD REBUILD KIT

There are "Old Style" and "New Style" Manifolds which take different repair kits.

The **Old Style** has an MVE logo and the **New Style** has a Chart logo.

Repair Kit part numbers are as follows:



Old Style (MVE)

Part #	Description
PBE-2A-RBK1	Complete Re-build Kit
PBE-2A-DRBK1	Diaphragm Re-build Kit

New Style (Chart)

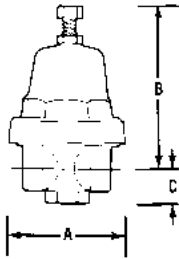
Part #	Description
PBE-2A-RBK2	Complete Re-build Kit
PBE-2A-DRBK2	Diaphragm Re-build Kit

Combination Pressure Builder-Economizer

Brand	Part #	Operating Range	Size		Dimensions						Shipping Weight	
					A		B		C			
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	lbs	kgs	
Taylor Wharton	PBE-1-T125	LP 50-175 psig	1/4	8	2 1/4	57.15	3 3/16	80.96	5/8	15.88	1 1/8	51
Chart	PBE-1-M125	LP 50-175 psig	1/4	8	2 1/4	57.15	3 3/16	80.96	5/8	15.88	1 1/8	51
Taylor Wharton	PBE-1-T300	HP 150-350 psig	1/4	8	2 1/4	57.15	3 3/16	80.96	5/8	15.88	1 1/8	51
Chart	PBE-1-M300	HP 150-350 psig	1/4	8	2 1/4	57.15	3 3/16	80.96	5/8	15.88	1 1/8	51

CRYOGENIC REGULATORS

Cleaned for Oxygen Service

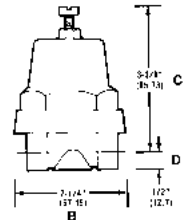
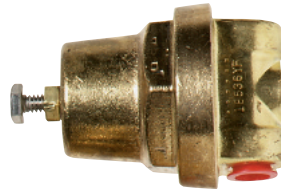


Cryogenic Regulators

Part #	Operating Range	Size		Dimensions						Shipping Weight	
				A		B		C			
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	lbs	kgs
CR-125	25-250	1/4	8	2 1/4	57.15	3 3/16	80.96	5/8	15.88	1 1/8	51
CR-300	125-350	1/4	8	2 1/4	57.15	3 3/16	80.96	5/8	15.88	1 1/8	51

CRYOGENIC ECONOMIZERS

Cleaned for Oxygen Service



Cryogenic Economizers

Part #	Inlet/Outlet Connection (F.NPT)	Width B	C	D	Pressure Setting (PSI)	Operating Range (PSI)
CE-19	1/4"	2 1/4"	3 3/4"	1/2"	19	10-75
CE-22					22	
CE-100					100	50-150
CE-140					140	
CE-325					325	150-350

STANDARD REBUILD KITS FOR DEWAR REGULATOR

Cleaned for Oxygen Service

Rebuild Kits for Dewar Regulator



MOST COMMON KIT

Part #	Description
PB-RBK1	Pressure Builder Regulator
CE-RBK1	Economizer Regulator
PBE-RBK1	Combination Pressure/Economizer Regulator

REGO REBUILD KITS FOR DEWAR REGULATOR

Cleaned for Oxygen Service

Rebuild Kits for Rego Regulator



Part #	Description
PB-RBK1-R	Rego Repair Kit for 75-125 PSI Regulator
PB-RBK1-R300	Rego Repair Kit for 300 PSI Regulator
CE-RBK1-R	Rego Repair Kit for 22-140 PSI Economizers
CE-RBK1-R325	Rego Repair Kit for 325 PSI Economizers

REGULATOR / ECONOMIZERS For breakdown by Dewar Type, please see pages 1B-9-11

Description	Series Type	Ratermann Part #
Regulator – Medium Pressure (140-150 PSI) <i>(For Dewars w/230 psi Relief Valve Setting)</i>	Taylor Wharton Series	CR-125
	XL-45, 50, 55	
	MVE Series <i>(Old Style Dura-Cyl Series)</i> Dura-Cyl, Dura Cyl III, Dura-5500, Dura-Tech HPG, PLC 180A, PLC 230A, PLC 275A	CR-125
Regulator – High Pressure (200-400 PSI) <i>(For Dewars w/350 psi Relief Valve Setting)</i>	Taylor Wharton Series	CR-300
	XL-45 HP, 50 HP, 55 HP	
	MVE Series <i>(Old Style Dura-Max Series)</i> Dura-Max, Dura Max 5500, PLC 180 HP, PLC 275 HP	CR-300
Regulator – Very High Pressure (300-600 PSI) <i>(For Dewars w/500 psi Relief Valve Setting)</i>	Taylor Wharton Series	CR-400
	XL-50X VHP	
	MVE Series Laser-Cyl 200	CR-400
Economizer – Medium Pressure (140-150 PSI) <i>(For Dewars w/230 psi Relief Valve Setting)</i>	Taylor Wharton Series	CE-140
	XL-45, 50, 55	
	MVE Series <i>(Old Style Dura-Cyl Series)</i> Dura-Cyl, Dura Cyl III, Dura-5500, Dura-Tech HPG, PLC 180A, PLC 230A, PLC 275A	CE-140
Economizer – High Pressure (200-400 PSI) <i>(For Dewars w/350 psi Relief Valve Setting)</i>	Taylor Wharton Series	CE-325
	XL-45 HP, 50 HP, 55 HP	
	MVE Series <i>(Old Style Dura-Max Series)</i> Dura-Max, Dura Max 5500, PLC 180 HP, PLC 275 HP	CE-325
Economizer – Very High Pressure (300-600 PSI) <i>(For Dewars w/500 psi Relief Valve Setting)</i>	Taylor Wharton Series	CE-420
	XL-50 VHP	
	MVE Series Laser-Cyl	CE-475
Combination Regulator – Medium Pressure (140-150 PSI) <i>(For Dewars w/230 psi Relief Valve Setting)</i>	Taylor Wharton Series	PBE-1-T125
	XL-45, 50, 55	
	MVE Series Dura-Cyl MCR-MP Series 160 MP, 180 MP, 200 MP 230 MP, 265 MP	PBE-1-M125
Combination Regulator – High Pressure (200-400 PSI) <i>(For Dewars w/350 psi Relief Valve Setting)</i>	Taylor Wharton Series	PBE-1-T300
	XL-45 HP, 50 HP, 55 HP	
	MVE Series Dura-Cyl MCR-HP Series 160 HP, 180 HP, 200 HP 230 HP, 265 HP	PBE-1-M300
Combination Regulator – Very High Pressure (300-600 PSI) <i>(For Dewars w/500 psi Relief Valve Setting)</i>	Taylor Wharton Series	PBE-1-T400
	XL-50X VHP	
	MVE Series Laser-Cyl 200	PBE-1-M450
Adjustable Control Manifold –	MVE Series	PBE-2A-125 PBE-2A-300
	Dura-Cyl LCCM 160/180/200/235/265 MP Dura-Cyl LCCM 160/180/200/235/265 HP	

DEWAR LABELS

DEWAR LABELS



OXYGEN

**REFRIGERATED LIQUID
UN 1073**

ALWAYS KEEP CONTAINER IN UPRIGHT POSITION.

WARNING

EXTREMELY COLD OXIDIZING LIQUID AND GAS UNDER PRESSURE. VIOLENTLY ACCELERATES COMBUSTION. COMBUSTIBLES IN CONTACT WITH LIQUID OXYGEN MAY EXplode ON IGNITION OR IMPACT. CAN CAUSE SEVERE FROSTBITE.

Store and use with adequate ventilation. Do not get liquid in eyes, on skin or clothing. Do not get liquid on face. For liquid withdrawal, wear face shield and gloves. Do not drop. Use hand truck for container movement. Always handle with proper technique. Use in accordance with recommended CCA practices.

IN CASE OF FROSTBITE, obtain medical treatment immediately.

PLEASE REFER TO THE MATERIAL SAFETY DATA SHEET FOR SAFETY AND PRODUCT INFORMATION.

DO NOT REMOVE THIS PRODUCT LABEL

• Size 9 1/2 x 14 inches

NITROGEN

**REFRIGERATED LIQUID
UN 1977**

ALWAYS KEEP CONTAINER IN UPRIGHT POSITION.

WARNING

EXTREMELY COLD LIQUID AND GAS UNDER PRESSURE. CAN CAUSE RAPID ASPHYXICATION. CAN CAUSE SEVERE FROSTBITE.

Store and use with adequate ventilation. Do not get liquid in eyes, on skin or clothing. Do not get liquid on face. For liquid withdrawal, wear face shield and gloves. Do not drop. Use hand truck for container movement. Always handle with proper technique. Use in accordance with recommended CCA practices.

IN CASE OF FROSTBITE, obtain medical treatment immediately.

PLEASE REFER TO THE MATERIAL SAFETY DATA SHEET FOR SAFETY AND PRODUCT INFORMATION.

DO NOT REMOVE THIS PRODUCT LABEL

Part #	Description	25+	1+
DB-O	OXYGEN	\$4.57	\$4.85
DB-A	ARGON	\$4.57	\$4.85
DB-N	NITROGEN	\$4.57	\$4.85
DB-CO2	CO ²	\$4.57	\$4.85
DB-USP	OXYGEN USP	\$6.07	\$6.28
DB-NNF	NITROGEN NF	\$6.07	\$6.28
DB-NOUSP	NITROUS OXIDE USP	\$6.07	\$6.28
DB-CO2USP	CARBON DIOXIDE USP	\$6.07	\$6.28

ARGON

**REFRIGERATED LIQUID
UN 1951**

ALWAYS KEEP CONTAINER IN UPRIGHT POSITION.

WARNING

EXTREMELY COLD LIQUID AND GAS UNDER PRESSURE. CAN CAUSE RAPID ASPHYXICATION. CAN CAUSE SEVERE FROSTBITE.

Store and use with adequate ventilation. Do not get liquid in eyes, on skin or clothing. Do not get liquid on face. For liquid withdrawal, wear face shield and gloves. Do not drop. Use hand truck for container movement. Always handle with proper technique. Use in accordance with recommended CCA practices.

IN CASE OF FROSTBITE, obtain medical treatment immediately.

PLEASE REFER TO THE MATERIAL SAFETY DATA SHEET FOR SAFETY AND PRODUCT INFORMATION.

DO NOT REMOVE THIS PRODUCT LABEL

CARBON DIOXIDE

**REFRIGERATED LIQUID
UN 2187**

ALWAYS KEEP CONTAINER IN UPRIGHT POSITION.

WARNING

EXTREMELY COLD LIQUID AND GAS UNDER PRESSURE. CAN CAUSE RAPID ASPHYXICATION. CAN CAUSE SEVERE FROSTBITE.

Store and use with adequate ventilation. Do not get liquid in eyes, on skin or clothing. Do not get liquid on face. For liquid withdrawal, wear face shield and gloves. Do not drop. Use hand truck for container movement. Always handle with proper technique. Use in accordance with recommended CCA practices.

IN CASE OF FROSTBITE, obtain medical treatment immediately.

PLEASE REFER TO THE MATERIAL SAFETY DATA SHEET FOR SAFETY AND PRODUCT INFORMATION.

DO NOT REMOVE THIS PRODUCT LABEL

OXYGEN

**REFRIGERATED LIQUID
USP 1073**

ALWAYS KEEP CONTAINER IN UPRIGHT POSITION.

WARNING

EXTREMELY COLD LIQUID AND GAS UNDER PRESSURE. CAN CAUSE RAPID ASPHYXICATION. CAN CAUSE SEVERE FROSTBITE.

Store and use with adequate ventilation. Do not get liquid in eyes, on skin or clothing. Do not get liquid on face. For liquid withdrawal, wear face shield and gloves. Do not drop. Use hand truck for container movement. Always handle with proper technique. Use in accordance with recommended CCA practices.

IN CASE OF FROSTBITE, obtain medical treatment immediately.

PLEASE REFER TO THE MATERIAL SAFETY DATA SHEET FOR SAFETY AND PRODUCT INFORMATION.

DO NOT REMOVE THIS PRODUCT LABEL

**Updated with Current
D.O.T. Regulations**

FOR TAYLOR WHARTON

Kit converts old style to new style Liquid Level Gauge*



Converts to Snap on Liquid Indicator**

** Gauge ordered separately see page 1B-11

* Order Float Rod separately by Vessel type



Pt # LL-RETRO45

FOR TAYLOR WHARTON

Float Rods for Conversion Kits

For use with Liquid Level Conversion Kit. Specify Taylor Wharton Dewar model when choosing Float Rod.

Float Rod

* Float Rod ordered separately by Vessel type for Conversion Kit

Pt # FR-45

Float Rods

Part #	Description
FR-45	Float Rod for XL-45
FR-5055	Float for Style XL-50 & XL55
FR-65	Float Rod for XL-65
FR-70	Float Rod for XL-70

ADHESIVE WIPES/REMOVERS

Adhesive wipes are a must in removing the sticky adhesive residue from where a label has been removed.



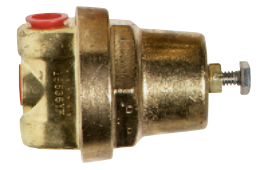
Pt # LR-AW

Part #	Description
LR-AW	Adhesive Wipes – Box of 50
LR-AL	Liquid Adhesive Remover – 8 oz. bottle
LR-AL-16	Liquid Adhesive Remover – 16 oz. can
LR-AL-32	Liquid Adhesive Remover – 32 oz. can

MVE/CHART DURA-CYL MCR SERIES — HIGH PRESSURE



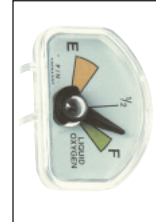
For 350 PSI Max Operating Pressure
MVE Dura-Cyl MCR High Pressure
160 HP, 180 HP, 200 HP, 230 HP, 265 HP



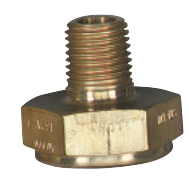
Combination PB /
Economizer Regulator
Pt # PBE-1-M/300



Sight Gauge
Protector
Pt # SGP-RO



*Liquid Level
Indicator Gauge
Pt # LL-R
LL-RN = Nitrogen
LL-RO = Oxygen
LL-RA = Argon
LL-RCD = CO2
LL-RNO = N2O



Burst Disc
Pt # BD-350



Pressure Relief
Pt # LPR-350

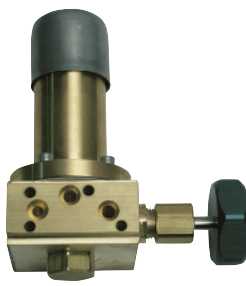


Gauge
Pt # PG-600

MVE/CHART DURA-CYL SERIES WITH ADJUSTABLE CONTROL MANIFOLD — MEDIUM PRESSURE



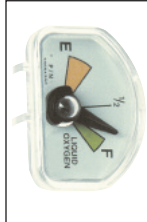
For 230 PSI Max Operating Pressure
MVE Dura-Cyl 160 MP,
180 MP, 200 MP, 230 MP, 265 MP



Adjustable Control Manifold
Pt # PBE-2A-125



Sight Gauge
Protector
Pt # SGP-RB



*Liquid Level
Indicator Gauge
Pt # LL-R
LL-RN = Nitrogen
LL-RO = Oxygen
LL-RA = Argon
LL-RCD = CO2
LL-RNO = N2O



Burst Disc
Pt # BD-230



Pressure Relief
Pt # LPR-230



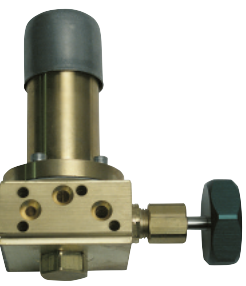
Gauge
Pt # PG-400

*For tanks built before 1-1-95 use the following part numbers for Liquid Level Gauges: # LL-OS-RN = Nitrogen # LL-OS-RO = Oxygen # LL-OS-RA = Argon # LL-OS-RCD = CO2 # LL-OS-RNO = N2O

MVE/CHART DURA-CYL SERIES WITH ADJUSTABLE CONTROL MANIFOLD — HIGH PRESSURE



For 350 PSI Max Operating Pressure
MVE Dura-Cyl High Pressure
160 HP, 180 HP, 200 HP, 230 HP, 265 HP



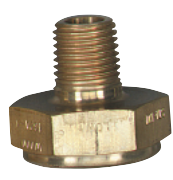
Adjustable Control Manifold
Pt # PBE-2A-300



Sight Gauge
Protector
Pt # SGP-RO



*Liquid Level
Indicator Gauge
Pt # LL-R
LL-RN = Nitrogen
LL-RO = Oxygen
LL-RA = Argon
LL-RCD = CO2
LL-RNO = N2O



Burst Disc
Pt # BD-350



Pressure Relief
Pt # LPR-350



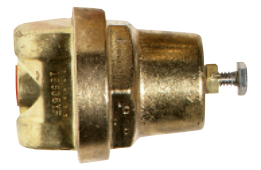
Gauge
Pt # PG-600

*For tanks built before 1-1-95 use the following part numbers for Liquid Level Gauges: # LL-OS-RN = Nitrogen # LL-OS-RO = Oxygen # LL-OS-RA = Argon # LL-OS-RCD = CO2 # LL-OS-RNO = N2O

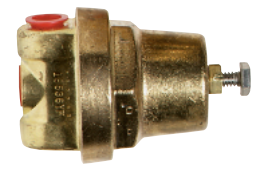
MVE/CHART/CSI OLD STYLE DURA-CYL SERIES — MEDIUM PRESSURE



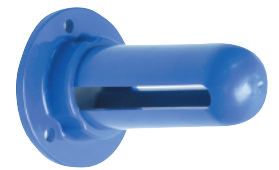
For 230 PSI Max Operating Pressure
MVE Old-Style Dura-Cyl Series
 Dura-Cyl, Dura Cyl III, Dura-5500, Dura-Tech HP.G, CSI
 PLC 180A, CSI PLC 230A, CSI PLC 275A



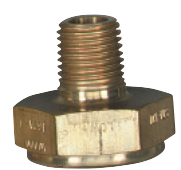
Regulator
 Pt # CR-125



Economizer
 Pt # CE-140



Float Sight Gauge
 Protector
 Pt # SGP-FB



Burst Disc
 Pt # BD-230



Pressure Relief
 Pt # LPR-230



Gauge
 Pt # PG-400

MVE/CHART/CSI OLD STYLE DURA-MAX SERIES — HIGH PRESSURE



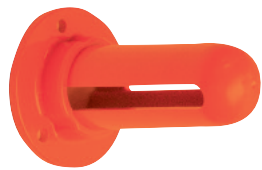
For 350 PSI Max Operating Pressure
MVE Old-Style Dura-Max Series
 Dura-Max, Dura Max 5500,
 CSI PLC 180HP, CSI PLC 275HP



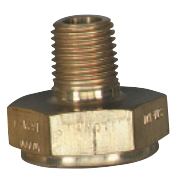
Regulator
 Pt # CR-300



Economizer
 Pt # CE-325



Float Sight Gauge
 Protector
 Pt # SGP-FO



Burst Disc
 Pt # BD-350

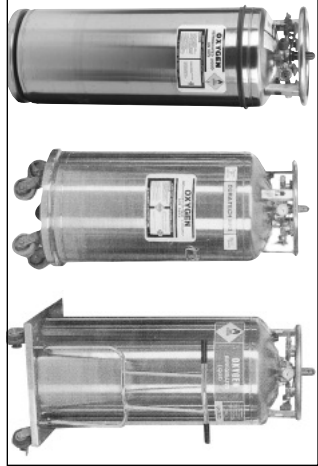


Pressure Relief
 Pt # LPR-350

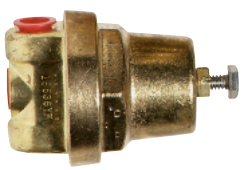


Gauge
 Pt # PG-400

MVE/CHART DURA-CYL MCR SERIES — MEDIUM PRESSURE



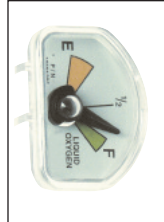
For 230 PSI Max Operating Pressure
Dura-Cyl MCR – MP Series
 160 MP, 180 MP, 200 MP, 230 MP, 265 MP



Combination PB /
 Economizer
 Regulator
 Pt # PBE-1-M125



Sight Gauge
 Protector
 Pt # SGP-RB



* Liquid Level
 Indicator Gauge
 Pt # LL-R
 # LL-RN = Nitrogen
 # LL-RO = Oxygen
 # LL-RA = Argon
 # LL-RCD = CO2
 # LL-RNO = N2O



Burst Disc
 Pt # BD-230



Pressure Relief
 Pt # LPR-230



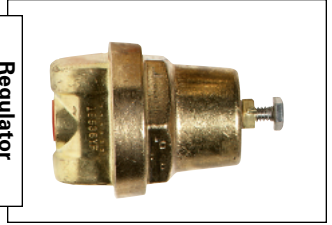
Gauge
 Pt # PG-400

*For tanks built before 1-1-95 use the following part numbers for Liquid Level Gauges: # LL-OS-RN = Nitrogen # LL-OS-RO = Oxygen # LL-OS-RA = Argon # LL-OS-RCD = CO2 # LL-OS-RNO=N2O

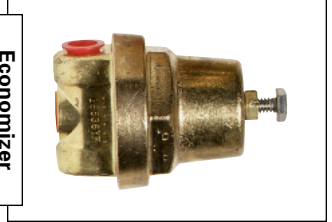
TAYLOR WHARTON STYLE CYLINDER



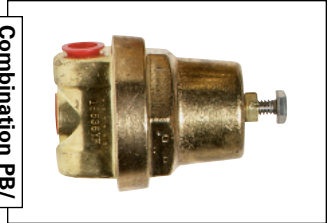
Taylor Wharton Style
For 230 PSI Max
Operating Pressure
XL45, XL50, XL55



Regulator
Pt # CR-125



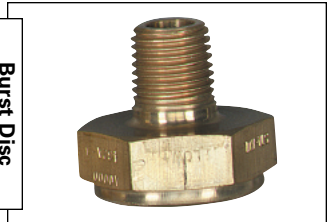
Economizer
Pt # CE-140



**Combination PB/
Econo Reg**
Pt # PBE-1-T125



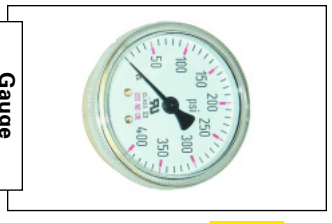
**Float Sight
Protector**
Pt # SGP-TFC



Burst Disc
Pt # BD-230



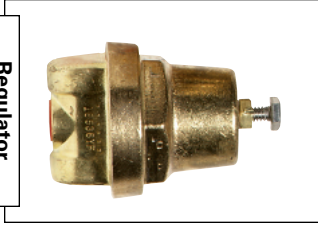
Pressure Relief
Pt # LPR-230



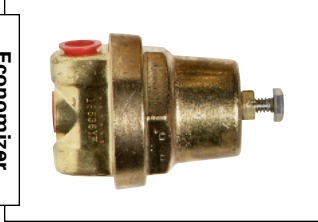
Gauge
Pt # PG-400



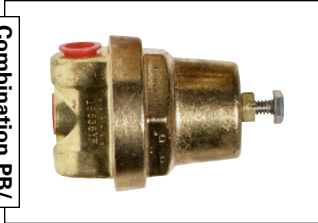
Taylor Wharton Style
For 350 PSI Max
Operating Pressure
XL45 HP, XL50 HP,
XL55 HP



Regulator
Pt # CR-300



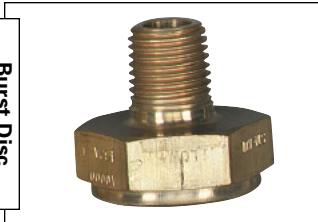
Economizer
Pt # CE-325



**Combination PB/
Econo Reg**
Pt # PBE-1-T300



**Float Sight
Protector**
Pt # SGP-TFC



Burst Disc
Pt # BD-350



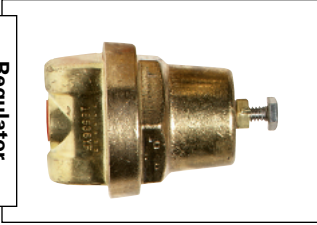
Pressure Relief
Pt # LPR-350



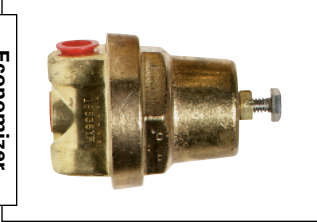
Gauge
Pt # PG-600



Taylor Wharton
For 500 PSI Max
Operating Pressure
XL-50 VHP



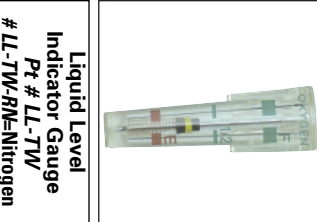
Regulator
Pt # CR-400



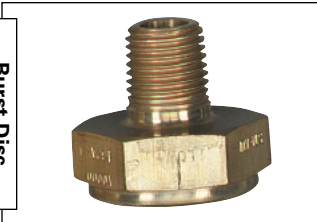
Economizer
Pt # CE-420



**Liquid Level
Gauge Protector**
Pt # SGP-TRC



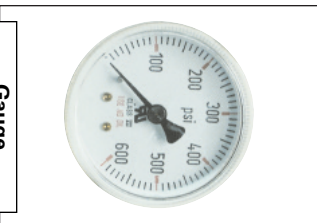
**Liquid Level
Indicator Gauge**
Pt # LL-1TW
LL-1TW-RN=Nitrogen
LL-1TW-R0=Oxygen
LL-1TW-RA=Argon
LL-1TW-RCD=C02
LL-1TW-RNO=N20
LL-RETRO45
Kit Converts Old Style
to New Style Liquid
Level Gauge



Burst Disc
Pt # BD-600



Pressure Relief
Pt # LPR-500



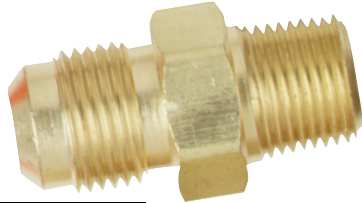
Gauge
Pt # PG-600

DEWAR/LIQUID FITTINGS

INERT DEWAR FITTINGS

Brass Fittings

CGA 295 x 3/8" NPT
Argon & Nitrogen
Liquid & Vent



Part #	Description
CGA-29538	Inert Vent & Liquid 3/8" NPT*
CGA-29514	Inert Vent & Liquid 1/4" NPT
CGA-29512	Inert Vent & Liquid 1/2" NPT

O.D. of Hex
7/8" Inch

CGA 580 x 3/8" NPT
Gas



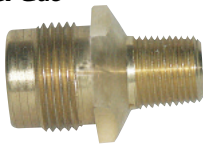
Part #	Description
CGA-58038	Inert Gas 3/8" NPT*
CGA-58014	Inert Gas 1/4" NPT
CGA-58012	Inert Gas 1/2" NPT

O.D. of Hex
1 1/8" Inches

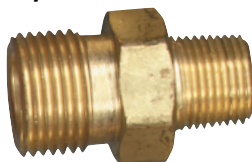
* Most common

CARBON DIOXIDE DEWAR FITTINGS

CGA 622 x 3/8" NPT
Liquid & Gas



CGA 320 x 3/8" NPT
Liquid / Vent / Gas



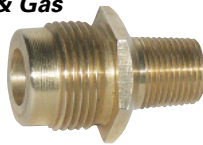
Part #	Description
CGA-32038	Carbon Dioxide 3/8" NPT*
CGA-32014	Carbon Dioxide 1/4" NPT
CGA-32012	Carbon Dioxide 1/2" NPT
CGA-62238	Carbon Dioxide 3/8" NPT
CGA-622FX320M-A	Fill Adapter to CGA 622

O.D. of Hex
7/8" Inch

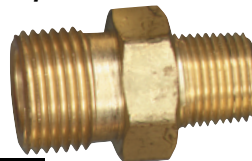
* Most common

NITROUS OXIDE DEWAR FITTINGS

CGA 624 x 3/8" NPT
Liquid & Gas



CGA 326 x 3/8" NPT
Liquid / Vent / Gas



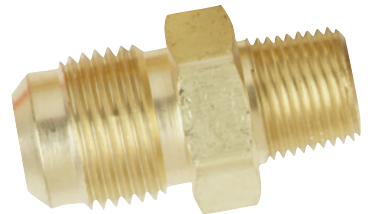
Part #	Description
CGA-32638	Nitrous Oxide 3/8" NPT
CGA-32614	Nitrous Oxide 1/4" NPT
CGA-32612	Nitrous Oxide 1/2" NPT
CGA-62438	Nitrous Oxide 3/8" NPT
CGA-624FX326M-A	Fill Adapter to CGA 624

O.D. of Hex
7/8" Inch

OXYGEN DEWAR FITTINGS

Brass Fittings

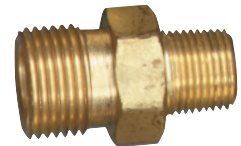
CGA 440 x 3/8" NPT
Oxygen
Liquid & Vent



Part #	Description
CGA-44038	Oxygen Dewar 3/8" NPT*
CGA-44014	Oxygen Dewar 1/4" NPT
CGA-44012	Oxygen Dewar 1/2" NPT

O.D. of Hex
1 Inch

CGA 540 x 3/8" NPT
Gas



Part #	Description
CGA-54038	Oxygen Gas Fitting 3/8" NPT
CGA-54014	Oxygen Gas Fitting 1/4" NPT
CGA-54012	Oxygen Gas Fitting 1/2" NPT

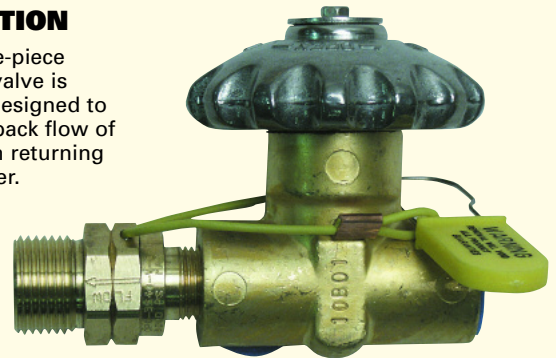
O.D. of Hex
1 Inch

* Most common

CGA CHECK VALVE FOR CRYOGENIC DEWARs

DESCRIPTION

Compact one-piece body check valve is specifically designed to prevent the back flow of any gas from returning to the cylinder.



Part # FIT-CV54038

TECHNICAL DATA

Nominal Crack Pressure 1 Psig (0.07 bar)
Leakage, External Zero
Internal Zero @ 0.5 Psig (0.03 bar) backpressure
Cv (flow coefficient) 0.65
Maximum Pressure 3000 Psig @ 150°F (206 bar @ 66° C)
Proof Pressure 10000 Psig (690 bar)

FEATURES

- High flow design exceeds maximum cylinder output
- Supplied cleaned and bagged for Oxygen Service

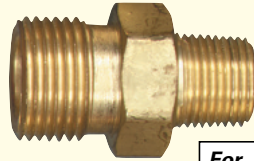
Part #	Description
FIT-CV54038	For CGA 540
FIT-CV58038	For CGA 580

CGA DUST CAPS

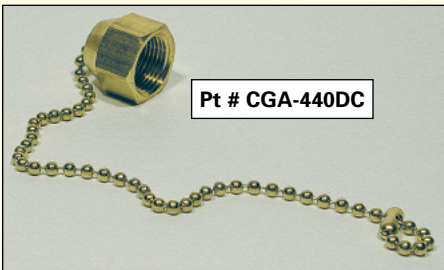
DUST CAP AND CHAIN FOR OXYGEN



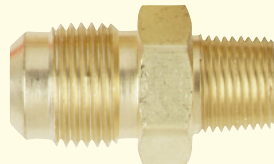
Pt # CGA-540DC



For CGA-540 Oxygen Gas Use



Pt # CGA-440DC



For CGA-440 Oxygen Vent & Liquid Use

Part #	Description
CGA-540DC	Dust Cap for Oxygen Gas
CGA-440DC	Dust Cap for Oxygen Vent and Liquid

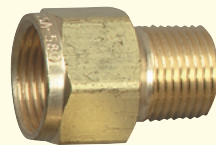
DUST CAP AND CHAIN FOR CRYOGENIC DEWARs



DUST CAP AND CHAIN FOR ARGON & NITROGEN DEWAR



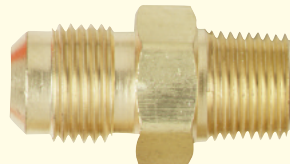
Pt # CGA-580DC



For CGA-580 Argon & Nitrogen Gas Use



Pt # CGA-295DC



For CGA-295 Inert Vent & Liquid Use

Part #	Description
CGA-580DC	Dust Cap for Inert Gas Use CGA 580
CGA-295DC	Dust Cap for Inert Vent and Liquid

TEFLON PASTE AND TAPE

Oxygen Safe, Chemically Inert, and Odor Free

FORMULA-8 is used by thousands of welding and general supply companies and equipment manufacturers worldwide.

Teflon Paste



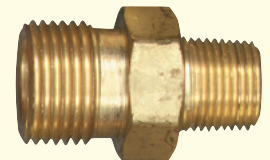
Teflon Tape

Part #	Description
Tape-1	1/4" Teflon Tape
Tape-2	1/2" Teflon Tape
Tape-34	3/4" Teflon Tape
Tape-3	1" Teflon Tape
Oxy-Teflon 8	Teflon Paste

DUST CAP AND CHAIN FOR CARBON DIOXIDE



Pt # CGA-320DC



For Carbon Dioxide Vent & Liquid Gas Use

Part #	Description
CGA-320DC	Dust Cap for CO ₂ Gas, Vent & Liquid

DEWAR ACCESSORIES

**New
Style**

STAINLESS STEEL DEWAR REGULATOR TAMPER PROOF DEVICE

Keep customers from adjusting regulators. A large percentage of problems with DOT4L liquid cylinders (Dewars) are directly related to end user tampering of the set screws on economizers and pressure building regulators.

When using Pressure Relief of 35 PSI on Dewar use Part # RPE-35.

Economizer



Pt # RPE-35

Regulator



Pt # RPR-35

Pressure Relief Used



Pt # LPR-35

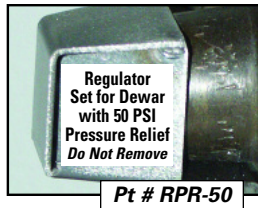


Tamper Proof Device Without Label Pt # RPR-00

Pressure	Part # Economizer	Part # Regulator	Part # Pressure Relief Used
No Label	N/A	RPR-00	N/A Tamper proof device w/out label
35 PSI	RPE-35	RPR-35	PR-35
50 PSI	RPE-50	RPR-50	PR-50
100 PSI	RPE-100	RPR-100	PR-100
150 PSI	RPE-150	RPR-150	PR-150
230 PSI	RPE-230	RPR-230	PR-230
350 PSI	RPE-350	RPR-350	PR-350
500 PSI	RPE-500	RPR-500	PR-500



Pt # RPE-50



Pt # RPR-50



Pt # LPR-50



Pt # RPE-350



Pt # RPR-350



Pt # LPR-350



Pt # RPE-100



Pt # RPR-100



Pt # LPR-100



Pt # RPE-500



Pt # RPR-500



Pt # LPR-500



Pt # RPE-150



Pt # RPR-150



Pt # LPR-150



Pt # RPE-230



Pt # RPR-230

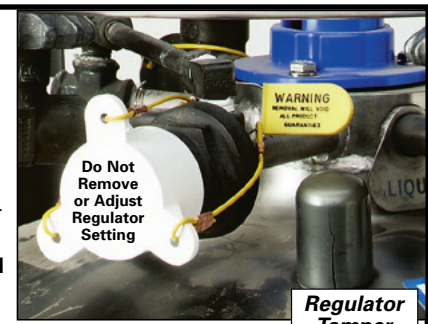


Pt # LPR-230

ECONOMY REGULATOR TAMPER DEVICE

To prevent customer from adjusting pressure builder or economizer regulators.

Two Tamper Seals needed for each RPE-10 Tamper Device.



Regulator Tamper Device

Part #	Description	250+	50+	1+
RPE-10	Regulator Tamper Device	\$4.56	\$5.36	\$6.92
CGP-PSI	Tamper Seal	77¢	82¢	97¢

DEWAR LABELS

DEWAR OPERATION LABELS

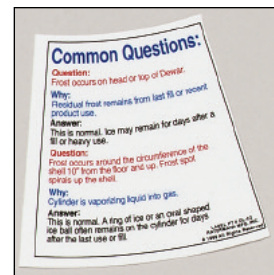
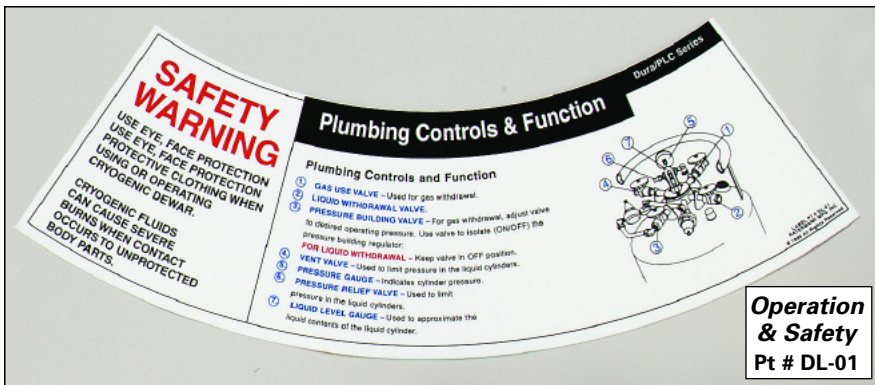


HOW TO USE THE PRODUCT

Use operation labels on the shoulder of the dewar. Labels have a peel-off backing for easy installation, and a plastic coating for long life of the label.

BENEFITS

- Customers operate the dewar correctly to reduce complaints.
- Protect your liability.
- DOT requires proper labeling. The DOT imposes strict fines for non-compliance of labeling regulations.



Common Questions
Pt # DL-02



CGA - Warning Label
Pt # DL-03

Dewar Operation Labels

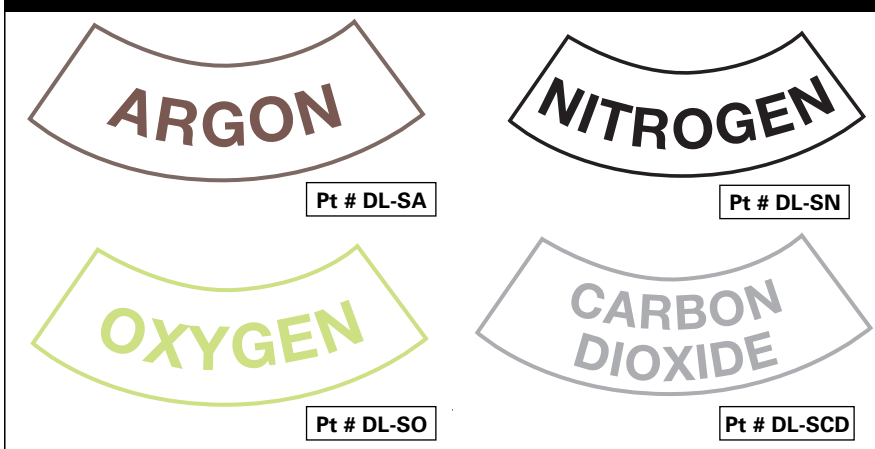
Part #	Description	50+ Pkg. of 5	20+ Pkg. of 5	5+ Pkg. of 5	1+ Pkg. of 5
DL-01PK5	Operation & Safety Label	\$16.35 per pack of 5	\$17.77 per pack of 5	\$19.68 per pack of 5	\$23.76 per pack of 5
DL-02PK5	Common Questions Label	\$4.38 per pack of 5	\$4.92 per pack of 5	\$6.01 per pack of 5	\$8.42 per pack of 5
DL-03PK5	CGA-Warning Label	\$3.56 per pack of 5	\$3.83 per pack of 5	\$4.65 per pack of 5	\$5.42 per pack of 5
DL-04PK5	Pressure Relief Reference Label	\$4.38 per pack of 5	\$4.92 per pack of 5	\$6.01 per pack of 5	\$8.42 per pack of 5
DL-10PK5	CGA-Red Warning Label	\$3.56 per pack of 5	\$3.83 per pack of 5	\$4.65 per pack of 5	\$5.42 per pack of 5

NEW

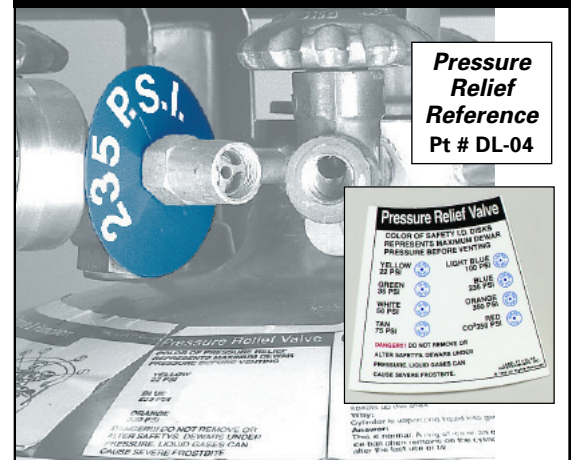
CGA - Red Warning Label
Pt # DL-10



DEWAR SHOULDER LABELS



USE LABEL WITH PRESSURE I.D. DISK



DEWAR LABELS

CUSTOM PRINT 360° TAPE



Pt # DG-CUSTP

Choose Color and Print Information or Company Logo

- 250 Foot Roll
- Minimum 10 Rolls
- Call for Quotation

Dewar 360° Gas Tape

Part #	Description
DG-CUSTP	Custom Print 360° Tape

CGA VALVE I.D. DISK



Easily Attaches Over the CGA

VALVE I.D. DISKS

- Accurate Filling
- User-Friendly
- Durable Material

Part #	Description	Color	1+ Pkg. of 50	Pkg. of 10
GV-APK50	Argon	Brown	97¢ ea. pc. 50 to a pack	(Pt # GV-APK10) \$11.79 Pk
GV-OPK50	Oxygen	Green	97¢ ea. pc. 50 to a pack	(Pt # GV-OPK10) \$11.79 Pk
GV-OUSPPK50	Oxygen USP	Lime Green	97¢ ea. pc. 50 to a pack	(Pt # GV-OUSPPK10) \$11.79 Pk
GV-CO2PK50	CO2	Orange	97¢ ea. pc. 50 to a pack	(Pt # GV-CO2PK10) \$11.79 Pk
GV-NPK50	Nitrogen	Black	97¢ ea. pc. 50 to a pack	(Pt # GV-NPK10) \$11.79 Pk
GV-NNFPK50	Nitrogen NF	Black	97¢ ea. pc. 50 to a pack	(Pt # GV-NNFPK10) \$11.79 Pk
GV-NOUSPPK50	Nitrous Oxide USP	Blue	97¢ ea. pc. 50 to a pack	(Pt # GV-NOUSPPK10) \$11.79 Pk

DEWAR VALVE LABELS



DEWAR VALVE LABELS

ADHERE TO DEWAR BELOW VALVE



Pt # DL-OV



Pt # DL-OG



Pt # DL-OL



Pt # DL-OPB

DESCRIPTION

Self-adhering identification labels for valves.

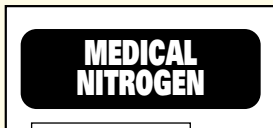
- Attach label to shoulder of Dewar below appropriate valve.
- Designed for cryogenic use.

Part #	Description	20+ Pkg. of 50	2+ Pkg. of 50	1+ Pkg. of 50	Pkg. of 10
DL-OVPK50	Vent	35¢ ea. pc. 50 to a pack	43¢ ea. pc. 50 to a pack	50¢ ea. pc. 50 to a pack	(Pt # DL-OVPK10) \$7.22 Pk
DL-OGPK50	Gas	35¢ ea. pc. 50 to a pack	43¢ ea. pc. 50 to a pack	50¢ ea. pc. 50 to a pack	(Pt # DL-OGPK10) \$7.22 Pk
DL-OLPK50	Liquid	35¢ ea. pc. 50 to a pack	43¢ ea. pc. 50 to a pack	50¢ ea. pc. 50 to a pack	(Pt # DL-OLPK10) \$7.22 Pk
DL-OPBPK50	Pressure Builder	35¢ ea. pc. 50 to a pack	43¢ ea. pc. 50 to a pack	50¢ ea. pc. 50 to a pack	(Pt # DL-OPBPK10) \$7.22 Pk

MEDICAL GAS VALVE LABELS



Pt # DL-MO



Pt # DL-MN



Pt # DL-MCO2



Pt # DL-MNO

Medical Gas Valve Labels

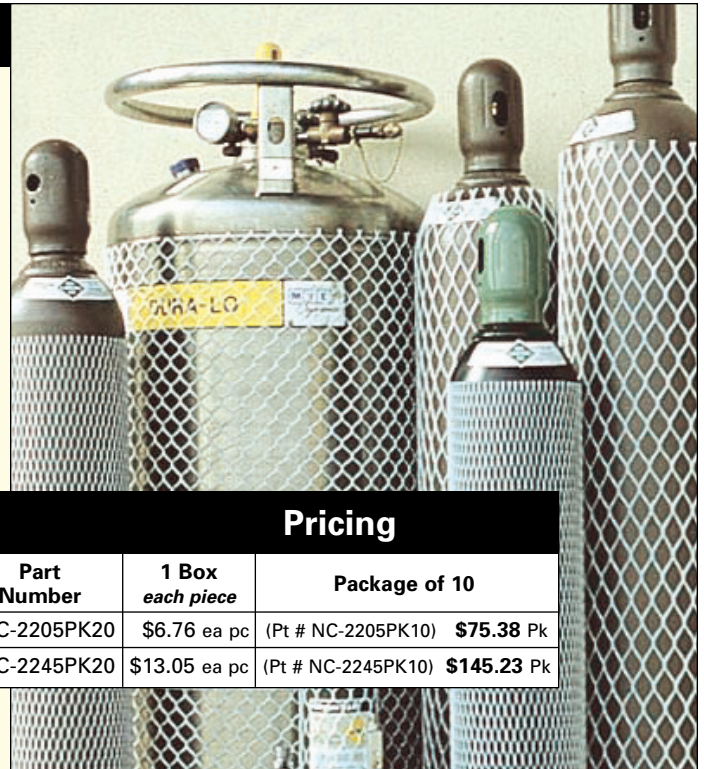
Part #	Description	20+ Pkg. of 50	2+ Pkg. of 50	1+ Pkg. of 50	Pkg. of 10
DL-MOPK50	Medical Oxygen	35¢ ea. pc. 50 to a pack	43¢ ea. pc. 50 to a pack	50¢ ea. pc. 50 to a pack	(Pt # DL-MOPK10) \$7.22 Pk
DL-MNPK50	Medical Nitrogen	35¢ ea. pc. 50 to a pack	43¢ ea. pc. 50 to a pack	50¢ ea. pc. 50 to a pack	(Pt # DL-MNPK10) \$7.22 Pk
DL-MCO2PK50	Medical Carbon Dioxide	35¢ ea. pc. 50 to a pack	43¢ ea. pc. 50 to a pack	50¢ ea. pc. 50 to a pack	(Pt # DL-MCO2PK10) \$7.22 Pk
DL-MNOPK50	Medical Nitrous Oxide	35¢ ea. pc. 50 to a pack	43¢ ea. pc. 50 to a pack	50¢ ea. pc. 50 to a pack	(Pt # DL-MNOPK10) \$7.22 Pk

NETTING & LABEL BUFFERS

DEWAR NETTING

Product Features

- Designed especially for pressure and liquid gas cylinders to help protect against damage caused during shipping and handling.
- UV stabilized with an expected lifetime of approximately 10 years.



Product Information

Pricing

For Use on These Cylinders	Cylinder Diameter	Cylinder Guard Length	Part Number	1 Box each piece	Package of 10
160, 180, 200 Ltr. portable liquid cylinder	20"	52" (20/box)	NC-2205PK20	\$6.76 ea pc	(Pt # NC-2205PK10) \$75.38 Pk
290 Ltr. Liquid Nitrogen	24"	52" (20/box)	NC-2245PK20	\$13.05 ea pc	(Pt # NC-2245PK10) \$145.23 Pk

Call for volume quotations, custom sizes and custom colors.

LABEL BUFFER



Extend the Life and Appearance of Dewar and Labels



Description

Dewar Label Buffer is made of a rubber material with an air chamber that provides a protective barrier between the Dewars and the truck bed, to keep vessels from being marred and dented, while protecting label from being torn.

How to Use the Product

Stretch the band around vessel to desired location. Color coded bands can be used to identify pressure: Yellow for 22 PSI, Blue for 235 PSI. Also available in a generic gray color.

Label Buffers

Part#	Description	100+	25+	1+
160 LITER SIZE				
LB-D160G	Gray-General Use	11.78	12.85	16.07
LB-D160B	Blue-For 235 PSI	11.78	12.85	16.07
LB-D160Y	Yellow-For 22 PSI	11.78	12.85	16.07
240 LITER SIZE				
LB-D240G	Gray-General Use	12.85	13.92	16.32
LB-D240B	Blue-For 235 PSI	12.85	13.92	16.32
LB-D240Y	Yellow-For 22 PSI	12.85	13.92	16.32
265 LITER SIZE				
LB-D265G	Gray-General Use	14.99	16.07	17.34
LB-D265B	Blue-For 235 PSI	14.99	16.07	17.34
LB-D265Y	Yellow-For 22 PSI	14.99	16.07	17.34

PRESSURE RELIEFS

1/4" NPT Liquid Cylinder Pressure Relief Valve

Exclusively for use on DOT 4L Cryogenic Liquid Cylinders

Addresses Noise Reduction Needed for Pressure Relief

DESCRIPTION

New Generant Liquid Cylinder Pressure Control/ Relief Valve is designed exclusively for use on DOT 4L Cryogenic Liquid Cylinders. Dramatically reduces the **NOISE** associated with traditional cylinder relief device discharge. Under normal operating conditions it optimizes cylinder performance by venting only what is required to maintain cylinder pressure in a tight band. In the event that circumstances demand, it has adequate flow capacity to insure safety, meeting all industry and regulatory requirements.

FEATURES AND BENEFITS

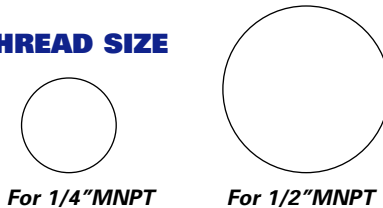
- Designed exclusively for use on DOT 4L Liquid Cylinders
- **Eliminates disruptive "pop"** historically associated with traditional cylinder relief devices
- Incorporates the customer proven **"Dirt Guard"** poppet
- Accurately maintains and controls cylinder pressure minimizing product loss
- Exceeds industry and regulatory flow capacity requirements
- Complies with OSHA sound level regulations
- Extensively field qualified
- OEM approved and endorsed
- Cleaned and packaged for Oxygen service standards

MATERIALS OF CONSTRUCTION

Component	Valve Body Material	
Valve Body, Poppet, Spring Retainer and Screen	Brass, ASTM B16	
Spring	302 SS/17-7 PH ASTM A313	
Seal	Fluorosilicon 22 to 49 Psig	CTFE 50 to 500 Psig
Label	.004 Thick Mylar	

TO DETERMINE THREAD SIZE

Match up outside thread base to scale right to confirm diameter

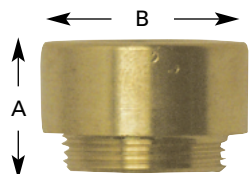


OPTIONS

- Pipe-away Adapter
- Seal Materials
- Certified Test Results

Pipe-away Adapter

Part #	SIZE	A	B
PA-14	1/4" NPT	11/32"	7/8"
PA-38	3/8" NPT	11/16"	7/8"
PA-12	1/2" NPT	3/4"	1"



Pipe-away Adapter

To Order – 1/4" NPT
22 - 500 Psig

Part #	Pressure Setting
LPR-22	22 PSI
LPR-35	35 PSI
LPR-50	50 PSI
LPR-75	75 PSI
LPR-100	100 PSI
LPR-125	125 PSI
LPR-150	150 PSI
LPR-175	175 PSI
LPR-200	200 PSI
LPR-230	230 PSI
LPR-235	235 PSI
LPR-350	350 PSI
LPR-375	375 PSI
LPR-400	400 PSI
LPR-425	425 PSI
LPR-450	450 PSI
LPR-500	500 PSI

GENERANT



Only for Dewar Liquid Applications.

FOR GAS AND LIQUID USE IN THE 1/2" STYLE

TECHNICAL DATA FOR 1/2" NPT

- Inlet Orifice** .312 Diameter
- Flow Coefficient** .45 @ 110% of nominal set pressure
- Full rated flow** is achieved by 110% of nominal set pressure
- Crack pressure tolerance** ± 5% of nominal set pressure
- Zero leakage** up to 95% of nominal set pressure
- Brass bar stock construction** with stainless steel springs
- Temperature Range** -320° to +400° F
- Proof Pressure** 1500 PSI

CONSIDERATIONS

- Teflon Seal, 50 P.S.I. and above
- Kel-F Seal, 100 P.S.I. and above
- Drain Hole omitted on CRVP
- Flow is unaffected with 10% Back Pressure
- Permanently Stamped with Full P/N and Pressure Setting
- Can be supplied with Color Coded Labels in PSI and BAR
- No Mounting Limitations



1/2" NPT Safety Pressure Relief

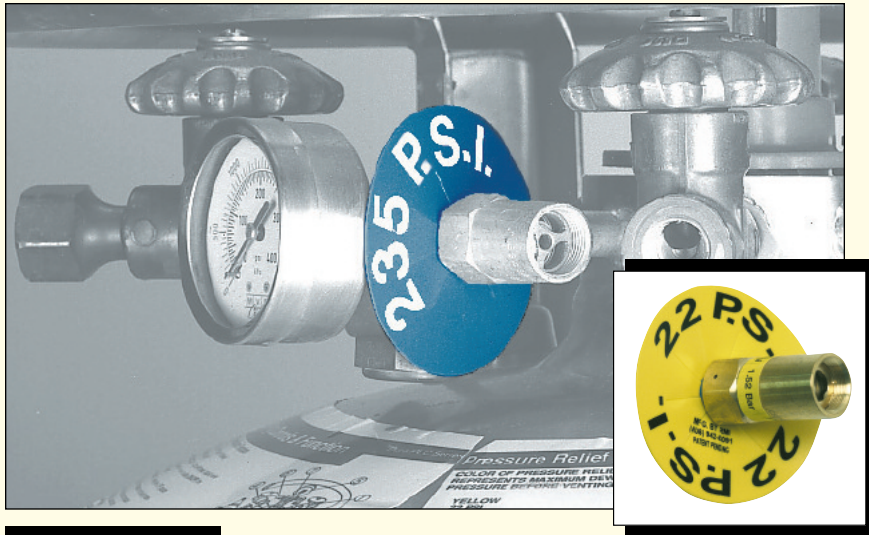
1/2" NPT Safety Pressure Relief

Part #	Description
PR-122	22 PSI
PR-1235	35 PSI
PR-1250	50 PSI
PR-1275	75 PSI
PR-12100	100 PSI
PR-12125	125 PSI
PR-12150	150 PSI
PR-12230	230 PSI
PR-12235	235 PSI
PR-12250	250 PSI
PR-12350	350 PSI
PR-12375	375 PSI
PR-12400	400 PSI
PR-12425	425 PSI
PR-12450	450 PSI
PR-12475	475 PSI
PR-12500	500 PSI
PR-12700	700 PSI

Custom Pressure Settings Also Available

PRESSURE RELIEF I.D. DISK

PRESSURE RELIEF I.D. DISK



Pressure I.D. Disk

Color coded for each safety pressure.



DESCRIPTION

Color-coded pressure relief I.D. disks are imprinted with the appropriate pressure of safety relief.

BENEFITS

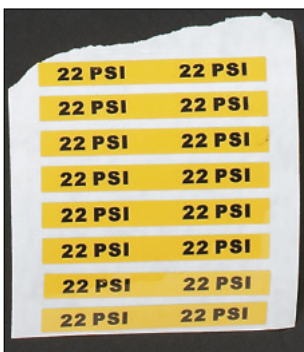
- Reduces delivery errors to the customer of the incorrect pressure of product in the dewar.
- Save the cost of correcting delivery errors by delivering the correct pressure the first time.
- Customer ease of use.

HOW TO USE

Simply slide the disk over the pressure relief valve.

Part #	Description	Color	4+ Pkg. of 50	2+ Pkg. of 50	1+ Pkg. of 50	Pkg. of 10
DS-22PK50	22 PSI	Yellow	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-22PK10) \$11.79 Pk
DS-35PK50	35 PSI	Green	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-35PK10) \$11.79 Pk
DS-50PK50	50 PSI	White w/ Black Text	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-50PK10) \$11.79 Pk
DS-75PK50	75 PSI	Tan	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-75PK10) \$11.79 Pk
DS-100PK50	100 PSI	Lt. Blue	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-100PK10) \$11.79 Pk
DS-230PK50	230 PSI	Blue	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-230PK10) \$11.79 Pk
DS-235PK50	235 PSI	Blue	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-235PK10) \$11.79 Pk
DS-350PK50	350 PSI	Orange	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-350PK10) \$11.79 Pk
DS-350CPK50	350 PSI CO2	Red	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-350CPK10) \$11.79 Pk
DS-500PK50	500 PSI	White w/ Red Text	75¢ ea. pc. 50 to a pack	86¢ ea. pc. 50 to a pack	\$1.00 ea. pc. 50 to a pack	(Pt # DS-500PK10) \$11.79 Pk

LABELS FOR PRESSURE RELIEFS



Pressure I.D. Tape

Pressure Identification Labels are specially designed for cryogenic environment.

- Color coded and imprinted with pressure rating.

Pressure Identification Labels

Other pressures available please call for info.

Part #	Description	40+ Pkg. of 25	20+ Pkg. of 25	4+ Pkg. of 25	1+ Pkg. of 25	Pkg. of 10
SL-22PK25	22 PSI	39¢ ea. pc. 25 to a pack	53¢ ea. pc. 25 to a pack	63¢ ea. pc. 25 to a pack	74¢ ea. pc. 25 to a pack	(Pt # SL-22PK10) \$8.14 Pk
SL-50PK25	50 PSI	39¢ ea. pc. 25 to a pack	53¢ ea. pc. 25 to a pack	63¢ ea. pc. 25 to a pack	74¢ ea. pc. 25 to a pack	(Pt # SL-50PK10) \$8.14 Pk
SL-100PK25	100 PSI	39¢ ea. pc. 25 to a pack	53¢ ea. pc. 25 to a pack	63¢ ea. pc. 25 to a pack	74¢ ea. pc. 25 to a pack	(Pt # SL-100PK10) \$8.14 Pk
SL-235PK25	235 PSI	39¢ ea. pc. 25 to a pack	53¢ ea. pc. 25 to a pack	63¢ ea. pc. 25 to a pack	74¢ ea. pc. 25 to a pack	(Pt # SL-235PK10) \$8.14 Pk
SL-350PK25	350 PSI	39¢ ea. pc. 25 to a pack	53¢ ea. pc. 25 to a pack	63¢ ea. pc. 25 to a pack	74¢ ea. pc. 25 to a pack	(Pt # SL-350PK10) \$8.14 Pk
SL-500PK25	500 PSI	39¢ ea. pc. 25 to a pack	53¢ ea. pc. 25 to a pack	63¢ ea. pc. 25 to a pack	74¢ ea. pc. 25 to a pack	(Pt # SL-500PK10) \$8.14 Pk

Convert your old float liquid cylinder sight gauge to the latest gauge design with a Gauge Retrofit Kit. Includes: Float Rod Assembly, Knuckle Plug, O-ring, Gauge, Gauge Protector, Hardware and Instructions.

For the Following Style Cylinders

- Dura-Cyl 160
- Dura-Cyl
- VGL-160
- Cryo-Cyl 160
- Dura-Max

Part #	Description
RC-RETRO-160-OX	Oxygen Service Roto-Cal 160
RC-RETRO-160-A	Argon Service Roto-Cal 160
RC-RETRO-160-N	Nitrogen Service Roto-Cal 160
RC-RETRO-160-CO2	Carbon Dioxide Service Roto-Cal 160
RC-RETRO-160-N2O	Nitrous Oxide Service Roto-Cal 160

For the Following Style Cylinders

- Dura-Cyl 180/200
- Dura-5100
- PLC-180 II
- Cryo-Cyl 180/200
- Dura-5500

Part #	Description
RC-RETRO-180/200-OX	Oxygen Service Roto-Cal 180/200
RC-RETRO-180/200-A	Argon Service Roto-Cal 180/200
RC-RETRO-180/200-N	Nitrogen Service Roto-Cal 180/200
RC-RETRO-180/200-CO2	Carbon Dioxide Service Roto-Cal 180/200
RC-RETRO-180/200-N2O	Nitrous Oxide Service Roto-Cal 180/200

For the Following Style Cylinders

- Dura-Cyl 230/265
- Dura Mite
- Cryo-Cyl 230/265
- Dura-Tech & PLC 230 II

Part #	Description
RC-RETRO-230/265-OX	Oxygen Service Roto-Cal 230/265
RC-RETRO-230/265-A	Argon Service Roto-Cal 230/265
RC-RETRO-230/265-N	Nitrogen Service Roto-Cal 230/265
RC-RETRO-230/265-CO2	Carbon Dioxide Service Roto-Cal 230/265

Warning

Latex Gloves should be worn at all times when working on Oxygen containers.

After the contents of the container have been emptied, it should be allowed to sit empty until the float rod has a chance to warm up. Time can vary from a few days to a week. Always wear protective gloves that are rated for cryogenic temperature when handling the float rod, as it may retain the extremely cold temperature of the cryogenic liquid and can burn exposed skin.

It is important to thoroughly read and understand all of the safety and maintenance sections of your product manual. Exposure to cryogenic liquid or low temperature gas can result in injury. Including, severe skin burns and tissue damage. Be sure to follow all safety precautions. Wear proper safety equipment to protect body, hands, and face. Prior to performing any work on a container, be sure to completely remove all liquid and vent pressure. Be absolutely sure that all parts and tools, as well as hands and work area, are completely free of any Grease, Oil, or Dirt. All parts intended for use on liquid cylinders that are exposed to product, must be properly cleaned for Oxygen service.



For the Following Style Cylinders

- Dura-Lo
- VL-160

Part #	Description
RC-RETRO-DURALO-OX	Oxygen Service Roto-Cal Dura Lo
RC-RETRO-DURALO-A	Argon Service Roto-Cal Dura Lo
RC-RETRO-DURALO-N	Nitrogen Service Roto-Cal Dura Lo

For the Following Style Cylinders

- PLC 160 I (CSI Pre-Merger)

Part #	Description
RC-RETRO-PLC160-OX	Oxygen Service Roto-Cal PLC 160 I
RC-RETRO-PLC160-A	Argon Roto-Cal PLC 160 I
RC-RETRO-PLC160-N	Nitrogen Service Roto-Cal PLC 160 I
RC-RETRO-PLC160-CO2	Carbon Dioxide Service Roto-Cal PLC160I

For the Following Style Cylinders

- PLC 180 I (CSI Pre-Merger)

Part #	Description
RC-RETRO-PLC180-OX	Oxygen Service Roto-Cal PLC 180 I
RC-RETRO-PLC180-A	Argon Roto-Cal PLC 180 I
RC-RETRO-PLC180-N	Nitrogen Service Roto-Cal PLC 180 I
RC-RETRO-PLC180-CO2	Carbon Dioxide Service Roto-Cal PLC180I
RC-RETRO-PLC180-N2O	Nitrous Oxide Service Roto-Cal PLC180I

For the Following Style Cylinders

- PLC 230 I (CSI Pre-Merger)

Part #	Description
RC-RETRO-PLC230-OX	Oxygen Service Roto-Cal PLC 230 I
RC-RETRO-PLC230-A	Argon Roto-Cal PLC 230 I
RC-RETRO-PLC230-N	Nitrogen Service Roto-Cal PLC 230 I