

## THANK YOU FOR YOUR SUPPORT

At Ratermann we are always striving to be a trusted partner in your business．We hand selected these products to showcase our extensive offering．

Brent Lockhart－President


## DEDICATED TO SERVE YOU．

I am here to serve as your go－ to point of contact，offering comprehensive assistance and expertise in everything related to beverages and CO2，ensuring tyour needs are addressed with the utmost care．

RELIABLY EVERYWHERE．COMMITED TO SERVING YOU．

## 7 AM TO 8 PM EST CUSTOMER SERVICE

Monday through Friday．Live in－person 7 AN EST－ 8 PM EST．Ship same day up to 8 PM EST．
sales＠rmimfg．com 1－800－264－7793

## SAME DAY SHIPPING UP TO 8 PM EST

Strategic warehouse locations around the country．
Tennessee，Texas，and California．Over 30，000 products！
reliable delivery．
SHOP 24／7 ONLINE－RMIORDER．COM
Your one－stop shop for all things Ratermann，save your favorites，and review orders．

## 



1．800．264．7793 SALES＠RMIMFG．COM RMIORDER．COM

## RELIABLE

PEOPLE
Meet Josh Drury, the newest addition to our team as the National Sales Manager for Beverage. With many years of experience in the beverage industry, Josh brings a wealth of knowledge and expertise to our organization.

A dedicated Beverage and CO2 Account Manager like Josh can bring a number of benefits to our customers.

Firstly, having a dedicated point of contact for all their needs means that customers can rely on a consistent level of service and support. Josh will be able to understand their specific requirements and tailor our products and services to meet those needs.

Additionally, Josh extensive experience in the beverage industry means that he has a deep understanding of the challenges and opportunities that come with the industry. He is able to anticipate potential issues and proactively work with our customers to find solutions. This helps to ensure that there are minimal disruptions to our customers' operations and that they are able to meet their own production and delivery deadlines.

Furthermore, Josh's role as the CO2 Account Manager ensures that our customers will have a reliable supply of CO2 \& beverage products, which is essential. He will be able to work with our customers to ensure they have the right amount of stock at all times, thus reducing any delay in production.

Finally, Josh's expertise in logistics and supply chain management means that he will be able to work with our customers to optimize their operations and minimize costs. By constantly looking for ways to improve efficiency, Josh can help our customers to increase their bottom line.

All of this means that having a dedicated Beverage and CO2 Account Manager like Josh Crambes allows our customers to focus on their core business, knowing that their beverage and CO2 needs are being taken care of by a highly experienced and professional team.


## JOSH DRURY

National Sales Manager - Beverage
Email: josh@rmimfg.com Phone: 562-980-6107


## BEVERAGE, BREW \& CARBON DIOXIDE



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## IDEAL FOR DISPENSING CARBONATED SOFT DRINKS, BEERS, LAGERS AND OTHER BEVERAGES.

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BEVERAGE REGULATORS


National Sales Manager - Beverage

- Part \# BEV-RG320-60B
- CGA 320 (CO2) Inlet 0-50 PSI
- Contents Gauge: 0-2000 psi
- Delivery Gauge: 0-60 psi
- Outlet Shutoff Valve Included
- Outlet Fitting: 5/16" Barb
- 5 Year Warranty


Complete Beverage Catalog
Everything you need for beverage \& CO2. Same day shipping on in-stock items.


Valuable options to customize your tanks!

- All models available with 6-inch legs
- Optional Vent Fill feature available for all models
- Optional 120 volt and 240 volt electrical heaters available on EC550 models
- 120 volt adds $20 \mathrm{lbs} / \mathrm{hr}$ continuous flow
- 240 volt adds $40 \mathrm{lbs} / \mathrm{hr}$ continuous flow
 EASYCARB OFFERS:
- Newly Designed Faster Fill System More Customer Deliveries per Day
- Greater Continuous and Peak Flow Rates - 100\% Stainless Steel Beverage Vaporizer Coil
- Most Reliable Automatic Fill Shut Off Designed and Vetted by Industry Experts
- Improved Labeling and Component Identification
- Color Coded Pressure Gauges Highlighting Operating Ranges
- Newly Designed V-Shaped Legs and Removable Shipping Ring
- Reconfigured User-Friendly Robust Plumbing Components
- Better Thermal Performance - Longer Product Hold Times, Less Venting

easyCarb
300, 550, 750 HF, 1000
Specifications


| TWBC-300 | TWBC-550 | TWBC-HF750 | TWBC-1000 |
| :---: | :---: | :---: | :---: |
| EC300 | EC550 | EC750 HF | EC1000 |
| $\begin{gathered} 20(508) \\ 49.4(1255) \\ 53.6(1361) \end{gathered}$ | $\begin{gathered} 22(559) \\ 68.2 \text { (1733) } \\ 72.4 \text { (1838) } \end{gathered}$ | $\begin{gathered} 26(660) \\ 70.5(1791) \\ 74.0(1874) \end{gathered}$ | $\begin{gathered} 30(762) \\ 73.25(1860) \\ \text { N/A } \end{gathered}$ |
| 260 (117.93Kg) | 392 (178Kg) | 410 ( 181.44 Kg ) | 772 (350Kg) |
| $\begin{array}{r} 34(129) \\ 32(121) \\ 301(137) \\ 279(127) \\ \hline \end{array}$ | $\begin{array}{r} 65(247) \\ 61(230) \\ 575(261) \\ 522(237) \end{array}$ | $\begin{gathered} 93(351) \\ 83(316) \\ 789(358) \\ 717(325) \\ \hline \end{gathered}$ | $\begin{gathered} 127(480) \\ 118(447) \\ 1000(453) \\ 925(419) \\ \hline \end{gathered}$ |
| $\begin{aligned} & 5.0(2.3) \\ & 2.0(0.9) \\ & \hline \end{aligned}$ | $\begin{aligned} & 20.0(9.0) \\ & 10.0(4.5) \\ & \hline \end{aligned}$ | $\begin{aligned} & 40(18.0) \\ & 15.0(6.8) \\ & \hline \end{aligned}$ | $\begin{aligned} & 30(14) \\ & 50(23) \\ & \hline \end{aligned}$ |
| 2.5 (1.13) | 2.9 (1.32) | 3.0 (1.4) | 3.0 (1.4) |
| 130 psig (8.96) | 130 psig (8.96) | N/A | 130 (8.96) |
| N/A | N/A | 155 (10.34) | 155 (10.69) |
| $\begin{gathered} 300(20.7) \\ 330(22.75) \end{gathered}$ | $\begin{gathered} 300(20.7) \\ 330(22.75) \end{gathered}$ | $\begin{gathered} 300(20.7) \\ 330(22.75) \end{gathered}$ | $\begin{gathered} 300(20.7) \\ 330(22.75) \end{gathered}$ |

[^0]REDESIGNED


TESTED


SUPPORTED

## CO2 TANKS FOR BEVERAGE CARBONATIONS

Ratermann
Manufacturing, Inc. is excited to introduce a full line of beverage cabonation tanks for CO2. Like all of the products we carry, our tanks are backed by our reliable service. We want to provide you with a package you can feel 100\% confident in.

## TESTED AND SUPPORTED

At Ratermann, we provide a guaranteed quality control system that double checks every outgoing order. We fill test and NER test each easyCarb tank before it is shipped to ensure you are receiving a quality product.


For More Information on our easyCarb Tanks please give us a call at 1.800.264.7793 RMIORDER.COM

Ratermann's live support team is available to assist you with any questions or needs before, during and after your buying process.

## QUALITY YOU CAN COUNT ON

"Our responsibility is to supply our customers with a bev-carb package that they can feel 100\% confident in; a package that will work as it is designed. We want our customers to know our support doesn't stop after the tank is sold, our support is always there for them."

- Brent Lockhart
president


## TELEMETRY BUILT INTO THE TANK.



Beverage Carbonation
easyCarb Tanks



## ALTERNATIVE TO ACID FOR AQUATIC APPLICATIONS NOVO Bulk CO2

# THE SAFE, <br> NATURAL ALTERNATIVE TO ACID FOR AQUATIC APPLICATIONS 

## NOVO Bulk CO2

Part Number
$\mathrm{CO}_{2}$ Tank
Specifications
RAIAUERMANN
TWBC-750SBR-QF-HTR-P
NOVO 750*


* Units available in both electric and non-electric. All electrical components used are NEMA and UL approved. Specifications may vary very slightly for each model and are subject to change without notice.



## Control pH with Carbon Dioxide

- No Dangerous Acid Fumes
- Helps Prevent Equipment Damage Due to Acid Corrosion
- Maintain Total Alkalinity without Manually Feeding Chemicals
- New QuickFill Venturi Fill System Eliminates Over or Under Filling and Accelerates the Fill Process
- Maintenance Free Tank Design

$\triangle$ WARNING: Products in this catalog can expose you to chemicals including lead which is known to the State of California to cause cancer, birth defects or reproductive harm.
For more information, go to https://www.p65warnings.ca.gov


## ALTERNATIVE TO ACID FOR AQUATIC APPLICATIONS NOVO Bulk CO 2

## $\mathrm{CO}_{2}$.

## It's as Easy as...1,2,3...

One...
$\mathrm{CO}_{2}$ is inexpensive and readily available. The aquatic industry is seeing a rapidly accelerating trend towards the use of $\mathrm{CO}_{2}$. It's a cost effective replacement to reduce or replace muriatic acid at your pool.

## Two...

The NOVO® cylinders make your water safer for bathers, less damaging to your equipment and minimizes the danger involved with the storage of handling acids as well.

## Three...

Our unit is permanently installed. No need to move or change out tanks. It can also do the job of eight or more high pressure cylinders. Connects to your automated pool water controller so that the pH and Total Alkalinity (TA) level you selected are maintained.


## RELIABLY EVERYWHERE.

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## SAME DAY SHIPPING UPTO 8PMEST

Strategic warehouse locations around the country. Tennessee, Texas, and California. Over 30,000 products!

## SHOP 24/7 ONLINE RMIORDER.COM

Over 30,000 products for the compressed gas \& cryogenic industries.

## We have you covered.



RATERMANN

Duratec is an innovative compressed air and inert gas distribution system ideally suited for the demanding food and beverage industry and hospitality sector. Meeting NSF and FDA requirements, Duratec is a completely clean pipe and fitting system. Designed to be absolutely leak-proof, installed quickly and easily, and maintained cost effectively, Duratec saves you time and money.

Traditional metallic compressed air and inert gas systems are a main cause of unnecessary energy use and excessive wear and tear on equipment. The culprits? Corrosion and leakage at pipe joints and fitting connections which often go undetected until they're discovered during a detailed system audit.
Engineered to outperform traditional metal piping systems, Duratec pipe comes in long 100 foot or 300 foot coils, which significantly reduces the number of joints in your system. The Duratec system is secured with durable nickel-plated brass and stainless steel adapter fittings. All fittings feature double o-ring seals to ensure long term joint integrity.

## Applications

- Inert Gas Distribution
- CO2 Distribution
- Microbulk Inert Gas Delivery Systems
- Plant Air
- Valve Actuation - Control Systems


Duratec Installation Tools


- $1 / 2^{\prime \prime}, 3 / 4$ " and $1^{\prime \prime}$ sizes
- Operating Pressures 200 psi at $73^{\circ} \mathrm{F}$, 160 psi at $140^{\circ} \mathrm{F}$


NOTE: $3 / 8^{\prime \prime}$ size Tubing is Not PE-RT material and not FDA compliant. $3 / 8^{\prime \prime}$ size is HDPE material.

## FEATURES \& BENEFITS

Duratec reduces costs on a typical installation not only for materials but also for labour and transportation costs when compared to traditional materials. How? Duratec's lightweight construction and simple assembly procedures which include:
Ease of Handling Duratec is 75\% lighter than the equivalent diameter of copper and SCH 40 carbon steel.
Quick Removable Connections Threading is not required. All joints have double o-ring seals and can be quickly assembled or disassembled. Easy on-site modifications and repairs can be made.
Quick Installation No special training or equipment is required to complete a Duratec system.
Fewer Fittings Duratec pipe comes in convenient 100 ft . and 300 ft . coils eliminating several joints and the need for threading, or soldering.
Flexible Yet Rigid Due to its composite structure, Duratec pipe can be easily bent by hand and will maintain its desired shape. This unique feature allows for straight, professional looking installation and eliminates sagging.

## LOWER OPERATING COSTS

Due to Duratec's advantages over metal systems, it costs you less time, labour and money to keep a Duratec system in optimal condition.
Pressure loss means money loss Metal systems can lose pressure due to pin-hole leaks and leakage at connections, all of which result in increased energy costs. Duratec's high-quality construction, on the other hand, guarantees consistent pressure for years to come.
Smooth Interior Less friction means lower pressure drops and higher flow rates. This may allow for smaller pipe sizes to be used.

## EXTENDED LIFE

Duratec is designed not to rust, scale or pit. Once properly selected for the application and correctly installed, Duratec Airline Systems will provide years of maintenance-free service because they are:
Corrosion Resistant Duratec's tough outer PE-RT (Polyethylene of Raised Temperature) layer protects it against corrosion and deterioration and ensures long service life even in the most aggressive manufacturing environments. Its inner PE-RT layer meets stringent NSF and FDA requirements and is unaffected by inert gases. With a choice of longlasting nickel-plated brass fittings or 316 stainless steel adapters, the system provides long-term performance superior to traditional metal piping systems.
Clean All Duratec pipe is packaged in cardboard boxes preventing contamination before use. The smooth PE-RT inner layer cannot rust, corrode or form loose scale. Clean air remains clean throughout the life of the system.
Safe Duratec's unique composite construction means that accidental impact or puncture of the pipe results in a safe, ductile mode of failure. Duratec pipe has been third-party tested and certified to stringent OSHA safety requirements, standards that guarantee safety comes first. Duratec pipe and fittings provide top-notch performance. Rated for long term continuous operating pressures of 200 psi at $73^{\circ} \mathrm{F}$ and 160 psi at $140^{\circ}$ F, Duratec pipe and fitting assemblies are also capable of sustaining quick burst pressures in excess of 800 psi. This built-in safety factor ensures system performance and provides peace of mind for designers and facility managers.

## Call or See Main Catalog Section 22A for All Parts \& Accessories

## THE PERFORMANCE OF PLASTIC WITH THE STRENGTH OF METAL

4 WARNING: Products in this catalog can expose you to chemicals including lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

## CARBON DIOXIDE PRODUCTS Composite Piping

## Composite Pipe

for CO2, Nitrogen and Argon Gas Working Pressure 200 PSI at $73^{\circ}$
Dinatec Airline - Composite Pipe

General Reference for Pipe Sizing

| Pipe <br> Size | Standard Cubic Foot per Minute Needed | Pressure Drop per 100 Foot Length |
| :---: | :---: | :---: |
| 1/2 Inch | 0-11 cu. ft. per minute | . 6 PSI per 100 ft . length |
| 1/2 Inch | Max 20 cu. ft. per minute | 2. PSI per 100 ft . length |
| 3/4 Inch | 0-30 cu. ft. per minute | . 3 PSI per 100 ft . length |
| 3/4 Inch | Max 50 cu . ft. per minute | 1. PSI per 100 ft . length |
| 1 Inch | 0-50 cu. ft. per minute | . 3 PSI per 1,000 ft. length |
| 1 Inch | Max 100 cu. ft. per minute | 1. PSI per 1,000 ft. length |

Duratec uses a unique and cost-effective D1 nickel-plated brass insert fitting for easy connections. All Duratec fittings are protected with a corrosion-resistant, industrial-strength nickel plating and include double o-ring seals ensuring joint integrity. Select fittings are also available in 316 stainless steel.


Duratec Airline - 90 Degree Pipe Elbow

| Part \# | Description |
| :--- | :--- |
| CMP-90E12 | $1 / 2^{\prime \prime}$ Pipe $\times 1 / 2^{\prime \prime}$ Pipe |
| CMP-90E34 | 3/4" Pipe $\times 3 / 4^{\prime \prime}$ Pipe |
| CMP-90E01 | $1^{\prime \prime}$ Pipe $\times 1^{\prime \prime}$ Pipe |



Duratec Airline -
Composite Pipe Reducing Tee

| Part \# | Description |
| :--- | :--- |
| CMP-RT341212 | $3 / 4^{\prime \prime} \times 1 / 2^{\prime \prime} \times 1 / 2^{\prime \prime}$ |
| CMP-RT343412 | $3 / 4^{\prime \prime} \times 3 / 4^{\prime \prime} \times 1 / 2^{\prime \prime}$ |
| CMP-RT341234 | $3 / 4^{\prime \prime} \times 1 / 2^{\prime \prime} \times 3 / 4^{\prime \prime}$ |
| CMP-RT010112 | $1^{\prime \prime} \times 1^{\prime \prime} \times 1 / 2^{\prime \prime}$ |
| CMP-RT013434 | $1^{\prime \prime} \times 3 / 4^{\prime \prime} \times 3 / 4^{\prime \prime}$ |
| CMP-RT010134 | $1^{\prime \prime} \times 1^{\prime \prime} \times 3 / 4^{\prime \prime}$ |

## Call or See Main Catalog Section 22A for All Parts \& Accessories



| Duratec Airline - <br> Composite Pipe Coupling <br> Part \# |
| :--- |
| Description |
| CMP-C12 |
| CMP-C34 |
| CMP-C01 |
| " |

Duratec Airline -
Composite Pipe Reducing Coupling

| Part \# | Description |
| :--- | :--- |
| CMP-RC3412 | $3 / 4^{\prime \prime} \times 1 / 2^{\prime \prime}$ |
| CMP-RT0134 | $1^{\prime \prime} \times 3 / 4^{\prime \prime}$ |

Duratec Airline -
Composite Pipe Caps

| Part \# | Description |
| :--- | :--- |
| CMP-CAP12 | $1 / 2^{\prime \prime}$ |
| CMP-CAP34 | $3 / 4^{\prime \prime}$ |
| CMP-CAP01 | $1^{\prime \prime}$ |

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to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

## Food Grade LCO2 Transfer Hose for CO2 \& Beverage Applications NSF 51 <br> Rated

RATERMANN'S LCO2 compatible hose will help you meet your FOOD SAFETY MODERNIZATION ACT (FSMA) requirements.
Our thermoplastic hose is specially designed for the transfer of liquid and gaseous carbon dioxide (CO2) for beverage applications. It is commonly used on small bulk delivery trucks as well as flexible lines from the restaurant wall-box to the liquid cylinders. The hose is specially formulated to perform well in temperatures as low as $-40^{\circ} \mathrm{F}$, and the proprietary core tube is plasticizer free and FDA compliant. Our unique bonding process guarantees excellent kink resistance, and the proprietary "Tuff-Skin" cover provides for superior handling and abrasion resistance.
Specifications

## Nominal I.D.:

1/2 inch
13 mm
Maximum O.D.: 0.810 inches 20 mm

Maximum Working Pressure:
2,000 PSI
138 bar
Weight:
lbs. per $100 \mathrm{ft}=14.8$
kg per $100 \mathrm{~m}=22.0$


NSF 51 Rated Carbon Dioxide - Food Grade Hose Pt \# BeV-F-

| Part \# | Description |
| :--- | :--- |
| BEV-F-250R | $1 / 2^{\prime \prime}$ ID Food Grade Hose 250 feet |
| BEV-F-1200FJIC58 | $1 / 2^{\prime \prime}$ ID Food Grade Hose $100 \mathrm{ft} 5 /$.8 Female JIC Ends |
| BEV-F-900FJC58 | $1 / 2^{\prime \prime}$ ID Food Grade Hose $75 \mathrm{ft} 5 /$.8 Female JIC Ends |
| BEV-F-780FJC58 | $1 / 2^{\prime \prime}$ ID Food Grade Hose $65 \mathrm{ft} 5 /$.8 Female JIC Ends |
| BEV-F-600FJIC58 | $1 / 2^{\prime \prime}$ ID Food Grade Hose $50 \mathrm{ft} 5 /$.8 Female JIC Ends |
| BEV-F-1200M12 | $1 / 2^{\prime \prime}$ ID Food Grade Hose $100 \mathrm{ft} 1 /$.2 Male NPT Ends |
| BEV-F-900M12 | $1 / 2^{\prime \prime}$ ID Food Grade Hose $75 \mathrm{ft} 1 /$.2 Male NPT Ends |
| BEV-F-780M12 | $1 / 2^{\prime \prime}$ ID Food Grade Hose $65 \mathrm{ft} 1 /$.2 Male NPT Ends |
| BEV-F-600M12 | $1 / 2^{\prime \prime}$ ID Food Grade Hose $50 \mathrm{ft} 1 /$.2 Male NPT Ends |



NSF 51 Rated Carbon Dioxide - Food Grade Hose with Vent Tube Pt \# BEV-F-VT

| Part \# | Description |
| :---: | :---: |
| BEV-F-VT360FJIC58 | 1/2" ID Food Grade Hose 30 ft 5/8" F JIC Ends with Vent Tube |
| BEV-F-VT300FJIC58 | 1/2" ID Food Grade Hose 25 ft . $7 / 8^{\prime \prime}$ F JIC Ends with Vent Tube |
| BEV-F-VT180FJC58 | 1/2" ID Food Grade Hose 15 ft 5/8" F JIC Ends with Vent Tube |
| BEV-F-VT120FJIC58 | 1/2" ID Food Grade Hose 10 ft 5/8" F JIC Ends with Vent Tube |
| BEV-F-VT60FJIC58 | $1 / 2^{\prime \prime}$ ID Food Grade Hose 5 ft 5/8" ${ }^{\prime \prime}$ JIC Ends with Vent Tube |

## Polyethylene Beverage Hose

NSF-51 listed Polyethylene reinforced tube, with EVA Copolymer Cover

NSF-51
Ideal for Product Lines

Polyethylene Beverage Hose

| Part \# | I.D. | Working Pressure <br> at 70 | Roll <br> Size |
| :--- | :--- | :--- | :--- |
| BVT-P14-500 | $1 / 4^{\prime \prime}$ | 300 PSI | $500^{\prime}$ |
| BVT-P38-300 | $3 / 8^{\prime \prime}$ | 300 PSI | $300^{\prime}$ |
| BVT-P12-300 | $1 / 2^{\prime \prime}$ | 250 PSI | $300^{\prime}$ |

UV Stabilized Polyethylene Beverage Hose
NSF-51 listed materials, Specially formulated for superior UV resistance to microbial growth in outdoor or direct sunlight installations.


UV Resistant Polyethylene Beverage Hose NSF-51 listed, Barrier protected hose provides optimum in UV and weather resistance

|  | NSF-51 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Outdoor Gas I | UV Resistant Polyethylene Beverage Hose |  |  |  |
|  | Part \# | I.D. | Working Pressure at $70^{\circ} \mathrm{F}$ | $\begin{aligned} & \text { Roll } \\ & \text { Size } \end{aligned}$ |
| Beverage | BVT-PUV14-500 | 1/4" | 300 PSI | $500{ }^{\prime}$ |
| Line | BVT-PUV $38-300$ | $3 / 8{ }^{\prime \prime}$ | 300 PSI | $300{ }^{\prime}$ |

## Precision Cutter

- Saves time cutting tubes and hoses
- Special V-block ensures straight clean cut
- Cuts $1 / 4^{\prime \prime}$ to over $1^{\prime \prime}$ OD
- Even cuts Kevlar Lined Hoses.

| Part \# | Description |
| :--- | :--- |
| BVT-CUTTER | Precision Tube Cutter |
| BVT-CUTTER-RB | Replacement Blade |
| BVT-CUTTER-HLST | Belt Holster for Cutter |



[^1]to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

## Push-In Tube Fittings <br> PROVIDES QUICK \& CONVENIENT ASSEMBLY

Products are manufactured from safe, non-toxic materials meeting the requirements of the US FDA, ANSI/NSF-51, 61, and SK Zert.

Do not use this product where the ambient temperature or fluid temperature may exceed $180^{\circ} \mathrm{F}$.

Maximum operating pressure $-40^{\circ} \mathrm{F}$ to $68^{\circ} \mathrm{F}$ is $230 \mathrm{PSI} / 149^{\circ} \mathrm{F}$ is 150 PSI .

Fittings listed fit the following tubings:

- 1/4" O.D. fits 08H05-154
- 5/16" O.D. fits 08H05-247
- 3/8" O.D. fits 08H05-115
- 1/2" O.D. fits 08H05-116



## ELBOW

| Part \# | Description |
| :--- | :--- |
| PI-90-OD140D14 | $1 / 4^{\prime \prime}$ O.D. $\times 1 / 4^{\prime \prime}$ O.D. |
| PI-90-OD140D38 | $1 / 4^{\prime \prime}$ O.D. $\times 3 / 8^{\prime \prime}$ O.D. |
| PI-90-OD380D38 | $3 / 8^{\prime \prime}$ O.D. $\times 3 / 8^{\prime \prime}$ O.D. |
| PI-90-OD380D12 | $3 / 8^{\prime \prime}$ O.D. $\times 1 / 2^{\prime \prime}$ O.D. |
| PI-90-OD120D12 | $1 / 2^{\prime \prime}$ O.D. $\times 1 / 2^{\prime \prime}$ O.D. |



PUSH-IN SHUTOFF

| Part \# | Description |
| :--- | :--- |
| PI-SO-OD14 | $1 / 4^{\prime \prime}$ O.D. |
| PI-SO-OD38 | $3 / 8^{\prime \prime}$ O.D. |
| PI-SO-OD12 | $1 / 2^{\prime \prime}$ O.D. |



| END STOP |  |
| :--- | :--- |
| Part \# | Description |
| PI-ES-OD14 | $1 / 4^{\prime \prime}$ O.D. |
| PI-ES-OD38 | $3 / 8^{\prime \prime}$ O.D. |
| PI-ES-OD12 | $1 / 2^{\prime \prime}$ O.D. |



MALE PIPE ADAPTER

| Part \# | Description |
| :--- | :--- |
| PI-A-M140D14 | $1 / 4^{\prime \prime}$ MPT x 1/4" O.D. |
| PI-A-M140D38 | $1 / 4^{\prime \prime}$ MPT x 3/8" O.D. |
| PI-A-M380D38 | $3 / 8^{\prime \prime}$ MPT x 3/8" O.D. |
| PI-A-M380D12 | $3 / 8^{\prime \prime}$ MPT x 1/2" O.D. |
| PI-A-M120D38 | $1 / 2^{\prime \prime}$ MPT x 3/8" O.D. |
| PI-A-M120D12 | $1 / 2^{\prime \prime}$ MPT $\times 1 / 2^{\prime \prime}$ O.D. |

## FEMALE PIPE \& <br> FEMALE FLARE ADAPTERS

## Part \#

 DescriptionPI-A-F140D14 1/4" FPT x 1/4" O.D.
PI-A-F140D38 1/4" FPT x 3/8" O.D.
PI-A-FFL140D14 1/4" FFL x 1/4" O.D.
PI-A-FFL140D38 1/4" FFL x 3/8" O.D.
PI-A-FFL380D38 3/8" FFL x 3/8" O.D.


| UNION |  |
| :--- | :--- |
| Part \# | Description |
| PI-U-OD140D14 | $1 / 4^{\prime \prime}$ O.D. x 1/4" O.D. |
| PI-U-OD140D38 | $1 / 4^{\prime \prime}$ O.D. x 3/8" O.D. |
| PI-U-OD5160D38 | $5 / 16^{\prime \prime}$ O.D. x 3/8" O.D. |
| PI-U-OD380D38 | $3 / 8^{\prime \prime}$ O.D. x 3/8" O.D. |
| PI-U-OD380D12 | $3 / 8^{\prime \prime}$ O.D. x 1/2" O.D. |
| PI-U-OD120D12 | $1 / 2^{\prime \prime}$ O.D. $\times 1 / 2^{\prime \prime}$ O.D. |


|  |  |
| :--- | :--- |
| Part \# | Description |
| PI-Y-OD14 | 1/4" O.D. (ALL) |
| PI-Y-OD516 | 3/8" O.D. (ALL) |
| PI-Y-OD38 | 1/2" O.D. (ALL) |
| PI-Y-OD380D120D12 | 3/8" x 1/2" x 1/2" O.D. |
| PI-Y-OD12 |  |

## MALE FLARE ADAPTER

| Part \# | Description |
| :--- | :--- |
| PI-A-MFL140D14 | $1 / 4^{\prime \prime}$ MFL x $1 / 4^{\prime \prime}$ O.D. |
| PI-A-MFL140D38 | $1 / 4^{\prime \prime}$ MFL x $3 / 8^{\prime \prime}$ O.D. |
| PI-A-MFL5160D38 | $5 / 16^{\prime \prime}$ MFL x 3/8" O.D. |
| PI-A-MFL380D38 | $3 / 8^{\prime \prime}$ MFL x 3/8" O.D. |
| PI-A-MFL12OD12 | $1 / 2^{\prime \prime}$ MFL x 1/2" O.D. |



## BULKHEAD ADAPTER

| Part \# | Description |
| :--- | :--- |
| PI-BHA-OD38 | 3/8" O.D. |
| PI-BHA-OD12 | 1/2" O.D. |

## CARBON DIOXIDE PRODUCTS Stainless Steel Hose Barb Fittings



CARBON DIOXIDE PRODUCTS Stainless Steel Hose Barb Fittings


FLARE SWIVEL SETS

| Part \# | Description |
| :--- | :--- |
| BFT-FS-N14 | $1 / 4^{\prime \prime}$ Flare Nut |
| BFT-FS-BS18 | $1 / 8^{\prime \prime}$ Stem for $1 / 4^{\prime \prime}$ Nut |
| BFT-FS-BS532 | $5 / 32^{\prime \prime}$ Stem for $1 / 4^{\prime \prime}$ Nut |
| BFT-FS-BS14 | $1 / 4^{\prime \prime}$ Stem for $1 / 4^{\prime \prime}$ Nut |



## SWIVEL ROUNDED ELBOWS

| Part \# | Description |
| :--- | :--- |
| BFTSS-90RB14FLN14 | $90^{\circ}$ Elbow $1 / 4$ Barb x $1 / 4$ Flare Swivel |
| BFTSS-90RB38FLN14 | $90^{\circ}$ Elbow $3 / 8$ Barb $\times 1 / 4$ Flare Swivel |



## BEER NUT AND TAILPIECE

## Nickle Plated

| Part \# | Description |
| :--- | :--- |
| BFTN-BRN78 | $7 / 8^{\prime \prime}-14$ Hex Beer Nut |
| BFTN-BRNT14 | $1 / 4^{\prime \prime}$ Tailpiece for Beer Nut |
| BFTN-BRNT38 | $3 / 8^{\prime \prime}$ Tailpiece for Beer Nut |
| BFTN-BRNT12 | $1 / 2^{\prime \prime}$ Tailpiece for Beer Nut |



| SWIVEL TEE |  |
| :--- | :--- |
| Part \# Description <br> BFTSS-TEEB14FLN14 $1 / 4$ Barb $\times 1 / 4$ Flare Swivel |  |




$90^{\circ}$ ELBOW

## Barb to Male Pipe

| Part \# | Description |
| :--- | :--- |
| BFTSS-90B14M18 | Elbow, $1 / 4$ Barb $\times 1 / 8$ M NPT |
| BFTSS-90B14M14 | Elbow, $1 / 4$ Barb $\times 1 / 4$ M NPT |
| BFTSS-90B14M38 | Elbow, $1 / 4$ Barb $\times 3 / 8$ M NPT |
| BFTSS-90B38M14 | Elbow, 3/8 Barb $\times 1 / 4$ M NPT |
| BFTSS-90B38M38 | Elbow, 3/8 Barb $\times 3 / 8$ M NPT |
| BFTSS-90B38M12 | Elbow, 3/8 Barb $\times 1 / 2$ M NPT |
| BFTSS-90B12M12 | Elbow, $1 / 2$ Barb $\times 1 / 2$ M NPT |



| FLARE CAP |  |
| :--- | :--- |
| Part \# | Description |
| BFT-FCAP14 | $1 / 4^{\prime \prime}$ Flare Cap |



ADAPTER
Barb to Male Pipe

| Part \# | Description |
| :--- | :--- |
| BFTSS-B14M18 | $1 / 4$ Barb $\times 1 / 8$ M NPT |
| BFTSS-B14M14 | $1 / 4$ Barb $\times 1 / 4$ M NPT |
| BFTSS-B14M38 | $1 / 4$ Barb $\times 3 / 8$ M NPT |
| BFTSS-B38M18 | $3 / 8$ Barb $\times 1 / 8$ M NPT |
| BFTSS-B38M14 | $3 / 8$ Barb $\times 1 / 4$ M NPT |
| BFTSS-B38M38 | $3 / 8$ Barb $\times 3 / 8$ M NPT |
| BFTSS-B38M12 | $3 / 8$ Barb $\times 1 / 2$ M NPT |
| BFTSS-B12M14 | $1 / 2$ Barb $\times 1 / 4$ M NPT |
| BFTSS-B12M38 | $1 / 2$ Barb $\times 3 / 8$ M NPT |
| BFTSS-B12M12 | $1 / 2$ Barb $\times 1 / 2$ M NPT |
| BFTSS-B34M34 | $3 / 4$ Barb $\times 3 / 4$ M NPT |



NYLON FLARE WASHERS

| Part \# | Description |
| :--- | :--- |
| BFT-GASKFL14-PK25 | 1/4" Flare Nylon Washer |

## STEMS FIT INTO OTHER PUSH-IN FITTINGS



MALE PIPE ADAPTER

| Part \# | Description |
| :--- | :--- |
| PI-A-ST14M14 | $1 / 4^{\prime \prime}$ Stem x $1 / 4^{\prime \prime}$ MPT |
| PI-A-ST38M14 | $3 / 8^{\prime \prime}$ Stem x $1 / 4^{\prime \prime}$ MPT |
| PI-A-ST38M38 | $3 / 8^{\prime \prime}$ Stem $\times 3 / 8^{\prime \prime}$ MPT |
| PI-A-ST12M38 | $1 / 2^{\prime \prime}$ Stem $\times 3 / 8^{\prime \prime}$ MPT |
| PI-A-ST12M12 | $1 / 2^{\prime \prime}$ Stem $\times 1 / 2^{\prime \prime}$ MPT |

## BARBED END ADAPTS BRAIDED TUBING TO BE COMPATIBLE WITH <br> BARBED END ADAPTS BRAIDED TUBING TO BE COMPATIBLE WITH PUSH-IN FITTINGS




## ELBOW

Part \# Description PI-90-ST140D14 1/4" Stem x 1/4" O.D. PI-90-ST380D14 3/8" Stem x 1/4" O.D. PI-90-ST380D38 3/8" Stem x 3/8" O.D. PI-90-ST120D12 $1 / 2^{\prime \prime}$ Stem $\times 1 / 2^{\prime \prime}$ O.D.


## ELBOW BARB TO STEM

| Part \# | Description |
| :---: | :---: |
| P1-90-ST14814 | $1 / 4^{\prime \prime} \mathrm{Bx} \times 1 / 4^{\prime \prime}$ Ste |
| P1-90-ST38814 | $1 / 4^{\prime \prime} \mathrm{B} \times 3 / 8^{\prime \prime} \mathrm{Stem}$ |
| P1-90-ST38838 | $3 / 88^{\prime \prime} \mathrm{B} \times 3 / 88^{\prime \prime} \mathrm{Stem}$ |

## PLUG STEM

| Part \# | Description |
| :--- | :--- |
| PI-PLUG-ODST14 | $1 / 4^{\prime \prime}$ O.D. Stem |
| PI-PLUG-ODST38 | 3/8" O.D. Stem |
| PI-PLUG-ODST12 | $1 / 2^{\prime \prime}$ O.D. Stem |


| LOCK OUT CLIP |
| :--- |
| Part \# |
| Description |
| PI-LOC-OD14 |
| PI-LOC-OD38 O.D. Tube |
| PI-LOC-OD12 |

## Stainless Steel Stepless Clamps



- Manufactured of 304 grade stainless steel for extended durability and increased corrosion resistance
- Tongue-in-groove design provides uniform pressure and gapless leak-free seal
- Burr-free edges to protect parts and to prevent injury during assembly
- The clamp ears adjustable crimp range compensates for component tolerances and applied pressure
$\left.\begin{array}{llll}\begin{array}{l}\text { Part Number } \\ \text { Pack of 25 }\end{array} & \text { Range } & \text { Clamp } \\ \text { Index }\end{array}\right\}$

| SS Stepless Clamps continued |  |  |
| :--- | :--- | :--- | :--- |
| Part Number <br> Pack of 25 | Range | Clamp <br> Index |
| CL-SLSS-24.1-PK25 | $.823-.949$ | - |
| CL-SLSS-25.6-PK25 | $.882-1.008$ | - |
| CL-SLSS-27.1-PK25 | $.941-1.067$ | - |
| CL-SLSS-28.6-PK25 | $1.00-1.126$ | P |
| CL-SLSS-30.1-PK25 | $1.06-1.185$ | - |
| CL-SLSS-31.6-PK25 | $1.12-1.244$ | - |
| CL-SLSS-33.1-PK25 | $1.18-1.303$ | - |
| CL-SLSS-34.6-PK25 | $1.24-1.362$ | - |
| CL-SLSS-36.1-PK25 | $1.30-1.421$ | - |
| CL-SLSS-37.6-PK25 | $1.35-1.480$ | - |
| CL-SLSS-38.1-PK25 | $1.37-1.500$ | - |
| CL-SLSS-39.6-PK25 | $1.43-1.559$ | - |
| CL-SLSS-41.0-PK25 | $1.49-1.614$ | - |
| CL-SLSS-42.5-PK25 | $1.55-1.673$ | - |
| CL-SLSS-44.0-PK25 | $1.61-1.732$ | - |
| CL-SLSS-45.5-PK25 | $1.67-1.791$ | - |
| CL-SLSS-47.0-PK25 | $1.72-1.850$ | - |
| CL-SLSS-48.5-PK25 | $1.78-1.909$ | - |
| CL-SLSS-50.0-PK25 | $1.84-1.969$ | - |
| CL-SLSS-51.5-PK25 | $1.90-2.028$ | - |
| CL-SLSS-52.2-PK25 | $1.93-2.055$ | - |
| CL-SLSS-53.0-PK25 | $1.96-2.087$ | - |
| CL-SLSS-54.5-PK25 | $2.02-2.146$ | - |
| CL-SLSS-56.0-PK25 | $2.08-2.205$ | - |
|  |  |  |

Stainless Steel Stepless Clamps

## Brass Check Valve

$$
\begin{array}{ll}
\hline \text { Part \# } & \text { Description } \\
\text { BFT-CVM14MFL14 } & \text { Brass Check Valve, } 1 / 4 \text { M NPT x } 1 / 4 \text { M Flare } \\
\hline
\end{array}
$$

§ WARNING: Products in this catalog can expose you to chemicals including lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

## Hoses for the Following Gases



2750 PSIG MAWP Rated Plated Carbon Steel End Fittings

These pigtails are constructed with a Polyester low temperature tube and cover. Each assembly is tested to 1 1/2 times MAWP. Branded with part number, size and MAWP. Meets SAE 100R7 specifications.

## Style Specifications <br> Not recommended for oxygen service. Meets SAE 100R7 specs <br> Liner: Low temperature Polyester <br> Reinforcement: Polyester braid Cover: Pin-pricked Polyester Temperature: $-65^{\circ} \mathrm{F}$ to $+212^{\circ} \mathrm{F}$ <br> 

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Ratermann Mfg. TPL Family of Hoses

OUTLET


| Hose <br> Length | Part \# |
| :--- | :--- |
| $24^{\prime \prime}$ | TPL-24F14 |
| $36^{\prime \prime}$ | TPL-36F14 |
| $48^{\prime \prime}$ | TPL-48F14 |
| $72^{\prime \prime}$ | TPL-72F14 |

$1 / 4 "$ NPT Female x $1 / 4 "$ NPT Male


OUTLET


1/4" NPT Female

| Hose <br> Length | Part \# |
| :--- | :--- |
| $24 "$ | TPL-24F14M14 |
| $36^{\prime \prime}$ | TPL-36F14M14 |
| $48^{\prime \prime}$ | TPL-48F14M14 |
| $72^{\prime \prime}$ | TPL-72F14M14 |

$1 / 4 "$ NPT Male x $1 / 4$ " NPT Male Hose
Length Part \#

| $244^{\prime \prime}$ | TPL-24M14 |
| :--- | :--- |
| $36^{\prime \prime}$ | TPL-36M14 |
| $48^{\prime \prime}$ | TPL-48M14 |
| $72^{\prime \prime}$ | TPL-72M14 |

1/4" NPT Female x
1/4" NPT Female JIC 37 Swivel

## Hose

Length Part \#

| 24" | TPL-24F14FJIC14S |
| :--- | :--- |
| $36^{\prime \prime}$ | TPL-36F14FJC14S |
| $48^{\prime \prime}$ | TPL-48F14FJC14S |
| $72^{\prime \prime}$ | TPL-72F14FJC14S |

1/4" NPT Male $x$
1/4" NPT Female JIC 37 Swivel
Hose

| Length | Part \# |
| :---: | :--- |
| $24^{\prime \prime}$ | TPL-24M14FJC14S |
| $36^{\prime \prime}$ | TPL-36M14FJC14S |
| $48^{\prime \prime}$ | TPL-48M14FJC14S |
| $72^{\prime \prime}$ | TPL-72M14FJC14S |

Standard Hose without Armor Casing $1 / 4^{\prime \prime}$ NPT Female x $1 / 4^{\prime \prime}$ NPT Female
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## A lightweight, yet durable rubber hose manufactured specially for the demands of Carbon Dioxide

Transfer hoses are manufactured specifically for the demanding requirements of CO2 liquid and vapor transfer. Unlike rubber hydraulic hose that is constructed with carbon steel reinforcing, these hoses are reinforced with stainless steel braids to resist carbonic acid - the result of CO2 and moisture combination. In addition, our pricked cover solves the problem of bubbling that the covers of hydraulic hoses have experienced. These hoses will be dramatically more flexible in CO2 transfer than standard rubber hoses due to a specially blended tube rated to minus $65^{\circ} \mathrm{F}$. The two-braid construction also offers much better kink resistance than comparable single braid products.

## SPECIFICATIONS

## Liquid / Vapor CO2 Transfer Hose

Tube Special Neoprene blend rated for $-65^{\circ} \mathrm{F}$
Reinforcement Two stainless steel braids Cover Special Neoprene blend. Black with blue Mylar
Temperature $-65^{\circ} \mathrm{F}$ to $+180^{\circ} \mathrm{F}$
Pressure Range 450 SIG MAW
Branding Blue Mylar
CGA Fittings Brass sleeve, nut, and dust caps available
Other Fittings Available Female NPT brass bar-stock fitting with aluminum crimp collar
4. WARNING: Products in this catalog can expose you to chemicals including Lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

| Part \# | I.D. <br> (In.) | O.D. <br> (In.) | Max WP <br> PSIG | Min Burst <br> PSIG | Weight <br> Per Foot |
| :--- | :---: | :---: | :---: | :---: | :---: |
| CTH1 | 1 | 1.58 | 450 | 2250 | 0.83 |
| CTH112 | $11 / 2$ | 2.08 | 450 | 2250 | 1.19 |
| CTH2 | 2 | 2.60 | 450 | 2250 | 1.90 |

## C02 Transfer Hoses - 450 PSIG MAW

Female NPT x Female NPT
1" I.D. - 1" FNPT x 1" FNPT

| Hose <br> Length | Part \# |
| :---: | :--- |
| $10^{\prime}$ | CTH-1ID-F1BH120 |
| $20^{\prime}$ | CTH-1ID-F1BH240 |
| $\mathbf{1} 1 / \mathbf{2}^{\prime \prime}$ I.D. | $\mathbf{1}$ |
| Hose <br> Length | Part \# |
| $10^{\prime \prime}$ | CTH-112ID-F112BH120 |
| $20^{\prime}$ | 1/2" FNPT |

2" I.D. - 2" FNPT x 2" FNPT

## C02 Connections

1" Carbon Dioxide Connection

| Hose <br> Length | Part \# |
| :---: | :--- |
| $10^{\prime}$ | CTH-1ID-CGA320BH120 |
| $20^{\prime}$ | CTH-1ID-CGA320BH240 |

1 1/2" Carbon Dioxide Connection

| Hose <br> Length | Part \# |
| :---: | :--- |
| $10^{\prime}$ | CTH-112ID-CGA320BH120 |
| $20^{\prime}$ | CTH-112ID-CGA320BH240 |

2" I.D. - Carbon Dioxide Connection

| Hose <br> Length | Part \# |
| :---: | :--- |
| $10^{\prime}$ | CTH-2ID-CGA320BH120 |
| $20^{\prime}$ | CTH-2ID-CGA320BH240 |

Carbon Dioxide Hose End Assembly

## Carbon Dioxide Pump

Positive
Displacement Pumps and Oil-Free Gas Compressors for Liquid CO2 Applications

- Recirculation
- Processing
- Bulk Transfer
- Truck \& Transport
- Railcar Unloading
- Vapor Recovery


## Blafteren



Part \# C02P-114-BPM3H Carbon Dioxide Pump 1 1/4" on a base plate with Motor.

』 WARNING: Products in this catalog can expose you to chemicals including lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

## Custom Length Hose - C02 Transfer Hoses

 ORDER CUSTOM LENGTH HOSE*
## C02 ACCESSORIES Automatic Changeover Manifold Ball Valves

## Utilizes Two Compensating Regulators

This Automatic Changeover Utilizes two compensating regulators to insure a seamless changeover from empty cylinder to full cylinder.

Features:

- For use with all inert gases
- Accurate and stable
- Changeover utilized two patented compensating regulators ensuring accuracy
- Smooth and silent changeover
- Quick and simple installation
- Durable and compact


| Part \# | Description |
| :--- | :--- |
| MAN-ACDR | Automatic Changeover Manifold |
| MAN-ACDR-320-24 | Automatic Changeover Manifold, with 24" Pigtails for Carbon Dioxide |
| MAN-ACDR-320-36 | Automatic Changeover Manifold, with 36" Pigtails for Carbon Dioxide |
| MAN-ACDR-580-24 | Automatic Changeover Manifold, with 24" Pigtails for Inert |
| MAN-ACDR-580-36 | Automatic Changeover Manifold, with 36" Pigtails for Inert |

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# Ball Valves, Carbon Steel with Vented Ball 



Typical Setup: Can be used with manifolds on either side or on both inputs

[^2]
## Completely Automatic

This is a completely automatic gas cylinder changeover system that is non-electric, foolproof and designed for easy installation and everlasting performance.

## Installation Made Easy

- Simply fasten the Changeover to a wall with the outlet about 10" above the gas cylinders to be uses.
- Connect your regulator inlet to the outlet of the changeover.
- Connect the hoses to the cylinders being used.

After Installation, simply turn on the cylinders (or bank of cylinders) that will be used FIRST. This locks in this bank of cylinders.
Then turn on the other bank of cylinders which will be used SECOND. The automatic Changeover will automatically switch to this side when the pressure in the First bank drops to 185 psi (+/- 15 psi).

## Materials of Construction

Valve Body - 7075-T6 Aluminum Spool Valves - Brass, Nickel Plated O-Rings - EPDM
Weight \& Dimensions
$3 " \mathrm{~W} \times 5.5^{\prime \prime} \mathrm{H} \times 1.25^{\prime \prime} \mathrm{D}-5 \mathrm{lbs}$.
Inlet Pressure
3000 psig max
Changeover Pressure
185 psig +/- 15 psig
Flow Rates
@ 2000 psig inlet: 2625 cfh
@ 250 psig inlet: 525 cfh

## CO2 Auto Changeovers*

| Part \# | Description |
| :--- | :--- |
| ACM-320-2 | CGA 320 Auto Changeover, 2 Cylinders |
| ACM-320-4 | CGA 320 Auto Changeover, 4 Cylinders |
| ACM-320-6 | CGA 320 Auto Changeover, 6 Cylinders |

Inert Auto Changeovers*

| Part \# | Description |
| :--- | :--- |
| ACM-580-2 | CGA 580 Auto Changeover, 2 Cylinders |
| ACM-580-4 | CGA 580 Auto Changeover, 4 Cylinders |
| ACM-580-6 | CGA 580 Auto Changeover, 6 Cylinders |



* 20 year manufacturer warranty on these CO2 and Inert Automatic Changeovers
$\triangle$ WARNING: Products in this catalog can expose you to chemicals including lead which is known to the State of California
to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov


## CO2 CYLINDER ACCESSORIES Semi-Automatic Switchover Manifold

## Semi-Automatic Switchover Manifold

Prevents downtime by automatically switching gas supply from the primary cylinder bank to the

reserve cylinder bank. The user resets the primary
bank by turning the knob. Manual adjustment of the individual regulators is not required.

## Features:

- Wall mounting Panel
- Maximum inlet pressure 3000 PSIG
- Delivery pressure 0 - 125 PSIG
- Inlet/Outlet 1/4 NPT
- Includes Post Sintered stainless steel braided pigtails
- CGA Nut and Nipples with Check Valves

Optional Accessory

- High Pressure Alarm System, 3000 PSIG Pt \# MSO-SA-ALARMHP



## Ratermann Mfg. Semi-Automatic Switchover Manifolds



2 Cylinder Manifold Part \#
MSO-SA Mode

| Gas Service | CGA | PSI Range |
| :--- | :--- | :---: |
| Carbon Dioxide | 320 | 125 PSI |
| Air-Breathing | 346 | 125 PSI |
| Hydrogen | 350 | 125 PSI |
| Medical Mixtures | 500 | 125 PSI |
| Oxygen | 540 | 125 PSI |
| Inert | 580 | 125 PSI |
| Air-Industrial | 590 | 125 PSI |



4 Cylinder Manifold Part \# -


6 Cylinder Manifold Part \#

| MSO-SA-320-4 | MSO-SA-320-6 |
| :--- | :--- |
| MSO-SA-346-4 | MSO-SA-346-6 |
| MSO-SA-350-4 | MSO-SA-350-6 |
| MSO-SA-500-4 | MSO-SA-500-6 |
| MSO-SA-540-4 | MSO-SA-540-6 |
| MSO-SA-580-4 | MSO-SA-580-6 |
| MSO-SA-590-4 | MSO-SA-590-6 |

[^3]Transfill Pump with Scale


Pt \# TFPS-CO2

## Features

- Liquefied Carbon Dioxide and Nitrous Oxide fill station
- Complete system, includes pump, scale and hose sets
- Excellent for on-demand filling of customers cylinders
- Patented double-ended pump with 9:1 ratio, fills at rate of 4 lbs. per minute
- Momentary fill button ensures operator attention
- "Economizer" fill valve bleeds pressure to cylinder while maintaining pressure in pump
- Lube free operation
- Powered by shop air or remaining pressure in spent cylinders


## Specifications

Part Number: TFPS-C02
Drive Air Required: 90-140 psi
Drive Ratio: 9:1
Fill Rate: $4 \mathrm{lbs} / \mathrm{min}$

## Applications

- HVAC service cylinders
- Nitrous Oxide cylinders
- Paintball cylinders
- Class 2 fire extinguishers

Pump: Liquid gases only
Design: Aluminum Body - Heat Treated Stainless Steel Piston

Transfill Pump with Scale and Accessories

| Part \# | Description |
| :--- | :--- |
| TFPS-CO2 | Transfill Pump with Scale |
| Part \# | Accessory Descriptions |
| TFPSA-CYLHKIT | Cylinder Hanging Stand* for filling small cylinders (shown above) |
| TFPSA-PINACO2 | Pin Valve Depressor |
| TFPSA-PO | Pump Only |

## DRY ICE ON DEMAND, AS YOU NEED IT

Dry Ice Machine


Pt \# DIM-DW1

## for Cryogenic Liquid Cylinders

## You will need a Liquid Cylinder (350psi Cryotank)

 of Liquid CO2.Attach to the Liquid outlet of your Bulk CO2 tank using an Adjustable wrench. Open the cylinder valve and direct the nozzle into a container
One way to pack dry ice is by packing it into a small cardboard box. Pack it down with a $2 \times 4$, and tape it shut. Put the cardboard box into your cooler or insulated container.
Makes Dry Ice snow at the rate of $1+\mathrm{lbs}$. every two minutes.

## for High Pressure Tanks

CO2 tank needs to be a liquid withdrawal tank that has a dip tube inside the tank so liquid comes out to produce dry ice.

Attach to the 0 to 70 lb (high pressure) Dip Tube/Siphon CO2 Cylinder using an Adjustable wrench. Open the cylinder valve and direct the nozzle into a container.

Another way to use your dry ice, is to spread a couple layers of newspaper on a hard surface. Dump the Dry Ice from the bag or container onto the newspaper. Wrap your dry ice like a burrito in the newspaper and tape it shut. Place in cooler.
Makes Dry Ice snow at the rate of 1 lb . every two minutes.

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[^4]For more information, go to https://www.p65warnings.ca.gov

## Cylinder Changeovers Changeover Valve

Manual C02 Cylinder Changeovers
AN AFFORDABLE ALTERNATIVE TO AUTOMATIC CHANGEOVERS

Manual CO2 Cylinder Changeovers *

| Part \# | Description | Length |
| :--- | :--- | :--- |
| C02-MCO-1TPL | Connects two tanks via one flexible hose | $26^{\prime \prime}$ |
| CO2-MCO-2TPL | Connects two tanks via two flexible hoses | $42^{\prime \prime}$ |

SWITCH
CYLINDERS WITHOUT SERVICE INTERRUPTION
Part \# CO2-MCO-2TPL

Part \# CO2-MCO-1TPL
Regulator Not Included


## Low Pressure Changeover Valve

## SWITCH CYLINDERS WITHOUT SERVICE INTERRUPTION

LOW COST ALTERNATIVE TO HIGH PRESSURE AND AUTO CHANGEOVERS

Connect valve to the low pressure outlets of two regulators via beverage tubing and 1/4" MFL fittings.

Low Pressure Changeover Valve

| Part \# | Description |
| :--- | :--- |
| CO2-CV | Low Pressure Changeover Valve |
| CO2-CV-E | Economy Low Pressure Changeover Valve |



[^5]

## Secondary Regulators Cylinder Valve Sizing Chart for Steel \& Aluminum

## Secondary Regulators



【 WARNING: Products in this catalog can expose you to chemicals including lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov


Economy Replacement Gauges


Low Mount Economy Gauges

| Part \# | Description |
| :--- | :--- |
| PG-ELM-30 | Low Mount Economy Gauge 0-30 PSI |
| PG-ELM-60 | Low Mount Economy Gauge 0-60 PSI |
| PG-ELM-100 | Low Mount Economy Gauge 0-100 PSI |
| PG-ELM-160 | Low Mount Economy Gauge 0-160 PSI |
| PG-ELM-300 | Low Mount Economy Gauge 0-300 PSI |

Gauge
Protector Boot


Gauge Protector Boot

| Part \# | Description |
| :--- | :--- |
| GP-BT | Gauge Protector Boot |



SHERWOOD master distributor

## GSV SERIES VALVES ARE MANUFACTURED WITH A DURABLE FORGED BRASS BODY AND PRECISELY MACHINED INTERNAL COMPONENTS TO PROVIDE YEARS OF TROUBLE FREE SERVICE



New \# SHW-GSV32061-32-7 Old Pt \# SHW-GV32061-32-7


New \# SHW-GSV32081-28 Old Pt \# SHW-GV32081-28


New \# SHW-GSV32051-28 Old Pt \# SHW-GV32051-28

3/4" NGT +4 Over Size Tapered Thread, Brass

| New Part \# | Old Part \# | Safety |
| :--- | :--- | :--- |
| SHW-GSV32061-28-4 | SHW-GV32061-28-4 | 3000 PSI |
| SHW-GSV32061-32-4 | SHW-GV32061-32-4 | 3360 PSI |
| SHW-GSV32061-35-4 | SHW-GV32061-35-4 | 3775 PSI |
| SHW-GSV32061-38-4 | SHW-GV32061-38-4 | 4000 PSI |

3/4" NGT +7 Over Size Tapered Thread, Brass

| New Part \# | Old Part \# | Safety |
| :--- | :--- | :--- |
| SHW-GSV32061-28-7 | SHW-GV32061-28-7 | 3000 PSI |
| SHW-GSV32061-32-7 | SHW-GV32061-32-7 | 3360 PSI |
| SHW-GSV32061-35-7 | SHW-GV32061-35-7 | 3775 PSI |
| SHW-GSV32061-38-7 | SHW-GV32061-38-7 | 4000 PSI |

3/4" NGT +7 Over Size Tapered Thread, Chrome

| New Part \# | Old Part \# | Safety |
| :--- | :--- | :--- |
| SHW-GSVA32061-32-7 | SHW-GVA32061-32-7 | 3360 PS |
| SHW-GSVA32061-35-7 | SHW-GVA32061-35-7 | 3775 PS |
| SHW-GSVA32061-38-7 | SHW-GVA32061-38-7 | 4000 PS |

1" NGT Tapered Thread, Chrome

| New Part \# | Old Part \# | Safety |
| :--- | :--- | :--- |
| SHW-GSVA32081-28 | SHW-GVA32081-28 | 3000 PSI |
| SHW-GSVA32081-32 | SHW-GVA32081-32 | 3360 PSI |
| SHW-GSVA32081-35 | SHW-GVA32081-35 | 3775 PSI |
| SHW-GSVA32081-38 | SHW-GVA32081-38 | 4000 PSI |

1-1/8" UNF Straight Thread, Brass

| New Part \# | Old Part \# | Safety |
| :--- | :--- | :--- |
| SHW-GSV32051-28 | SHW-GV32051-28 | 3000 PSI |
| SHW-GSV32051-32 | SHW-GV32051-32 | 3360 PSI |
| SHW-GSV32051-35 | SHW-GV32051-35 | 3775 PSI |
| SHW-GSV32051-38 | SHW-GV32051-38 | 4000 PSI |

3/4" UNF Straight Thread, Brass

| New Part \# | Old Part \# | Safety |
| :--- | :--- | :--- |
| SHW-GSV32051-28-75 | SHW-GV32051-28-75 | 3000 PSI |
| SHW-GSV32051-32-75 | SHW-GV32051-32-75 | 3360 PSI |
| SHW-GSV32051-35-75 | SHW-GV32051-35-75 | 3775 PSI |
| SHW-GSV32051-38-75 | SHW-GV32051-38-75 | 4000 PSI |

4. WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

## Replacement Safety Reliefs

## Part Number Description

 SHW-P625-19N9-28 Sherwood GV Series Plug Style Safety 3000 PSI SHW-P625-19N9-32 Sherwood GV Series Plug Style Safety 3360 PSI SHW-P625-19N9-35 Sherwood GV Series Plug Style Safety 3775 PSI SHW-P625-19N9-38 Sherwood GV Series Plug Style Safety 4000 PSIReplacement fusible plugs also available. Old cap style available upon request. Call Customer Service for details.

## Cylinder Siphon Tubes

Siphon tubes are constructed from $3 / 8$ " type "K" copper tube. Each tube is fitted with a $1 / 4^{\prime \prime}$ male NPT brass fitting for easy attachment to most brass valves on the market today. Standard length is $53^{\prime \prime}$ OAL to fit most 250-300 cu. ft. cylinders. All ends are cut at $45^{\circ}$ angle to allow for unrestricted flow.
Stainless Steel siphon tubes are available for higher purity gases. Custom sizes are available upon request. Call Customer Service for details.

[^6]
## C02 PRODUCTS Carbon Dioxide and Gas Purification

## Improve Carbonation

Advanced technology now provides a filter for both solid particulate and oil mist reduction. The excellent specifications for solid particulate reduction, oil aerosols and vapor reduction translate into increased carbonation and efficiency. Provides 40 times more solid particulate holding capacity than conventional filters.

Applications include beverage carbonation and brewing operations, gas packaging, injection molding, processing medical uses, refrigeration / chilling systems and a host of others to meet your needs.
Our modular filter design means less than half of the installation time of conventional systems plus reduced maintenance over years of use. This unique system utilizes nylon construction and will withstand high pressure - yet maintain a low pressure drop. And you'll appreciate our filter performance guarantee to enhance many years of dependable use under the most rigorous conditions.

Applications:

- CO2 \& GAS PURIFICATION
- Beer \& Beverage Carbonation
- Bottling and brewing
- Gas Packaging
- Chilling, Quick Freezing \& Refrigeration
- Fire Extinguishers
- Medical \& Surgical Uses
- Critical Instrumentation
- Industrial CO2 Laser Cutting \& Welding
- Blending, Foaming \& Injection Molding
- Micro-Elements
- Ceramics Processing
- Holography


## Benefits:

- One Filter does it all
- No pre filter required
- Low pressure drop
- Increase Carbonation


## Features:

- Ultra High Porosity Carbon with Micro-Structure
- Nylon construction withstands high pressure
- Modular filter design for up to $80 \%$ less installation time!
- 40 times more solid particulate holding capacity than conventional filters!


## Specified to:

- Provide 100\% 0.5-1 Micron Solid Particulate Reduction
- Provide $100 \%$ Oil Aerosols and Vapor Reduction at $61 \mathrm{mg} / \mathrm{m}^{\wedge} 3$
- Increase Carbonation


| Part \# | Description |
| :--- | :--- |
| PFS-CO2 | Purification System |
| PFS-CO2-RC | Replacement Cartridge |

FS-CO2-RC Replacement Cartridge

## Materials of Construction:

Filter Media Hollow Carbon
Housing Polypropylene
Head Proprietary reinforced nylon

## Cartridge Specifications and

Performance Data

## Maximum

Dimensions $14^{\prime \prime} \times 9^{\prime \prime} \times 23^{\prime \prime}$
Micron Rating 0.5
Initial $\Delta P$ (psi)
at Flow Rate
(gpm)
8 psi @ 150 scfm
Temperature
Rating $\quad 40^{\circ}$ to $100^{\circ} \mathrm{F}$

[^7]

[^8]
## C02 CYLINDER ACCESSORIES Cylinder Shoulder Labels Status Tags

## Carbon Dioxide Cylinder Shoulder Labels All Labels are GHS Compliant For Custom Imprint Labels... to Promote Your Brand

Carbon Dioxide Cylinder Status Tags


Sample of Company

Information Imprint Pt \# CB-C2PEFTI

| Cylinder Shoulder Labels (CO2 \& Blended Gas) |  |  |  | Information here. |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Part \# | Description | On Roll | Gas Type | UN \# |  |
| GCS-CD-XXX-PK500 | Shoulder Label | 500 | Carbon Dioxide | UN1013 |  |
| GCS-CG75AR25CO2-XXX-PK500 | Shoulder Label | 500 | Compressed Gases NOS (75\% Argon, 25\% C02) | UN1956 |  |
| GCS-CD-BEV-XXX-PK500 | Custom Shld Label | 500 | Carbon Dioxide Beverage Grade | UN1013 |  |
| GCS-CD-FG-XXX-PK500 | Shoulder Label | 500 | Carbon Dioxide (Food Grade) | UN1013 |  |
| GCS-CD-FGBEV-XXX-PK500 | Custom Shld Label | 500 | C02, Food Grade \& Beverage Grade | UN1013 |  |
| GCS-CG-BG60CD40NI-XXX-PK500 | Shoulder Label | 500 | Beer Gas Com Gases NOS (60\% C02, 40\% Nitrogen) | UN1956 |  |
| GCS-CG-BG75NI25CD-XXX-PK500 | Custom Shld Label | 500 | Beer Gas Com Gas NOS (75\% Nitrogen, 25\% CO2) | UN1956 |  |
| GCS-CG-BGFG60CD40NI-XXX-PK500 | Custom Shld Label | 500 | Beer Gas Food Grade (60\% C02, 40\% Nitrogen) | UN1956 |  |



## USE CGA <br> DUST COVERS AND <br> THREAD PROTECTORS

Use CGA Dust Cover and Thread Protectors in your procedures - to keep dust and dirt out of the valves along with using valve shrink wrap for a package delivered that customer knows the product has not been used or tampered with.

Flexible Thread Protector for CO2

- Male Thread Valves


CGA 320 Dust Cap - Red Pt \# PM-2PK1000 Pt \# PM-2PK100


## Ridgid Plastic with Pull Tab for CO2

- Provides thread protection


CGA 320 Male Cover - Blue Pt \# PF-HB1PK1000 Pt \# PF-HB1PK100


CGA 320 Male Cover - Red

Pt \# PF-H1PK1000 Pt \# PF-H1PK100

## Dust Cap with Strap

Fits all CO2 tank valves. Eliminates cap and chain. Protects threads and holds washer.



CGA 320
Dust Cap - Yellow Pt \# PM-C12-YPK1000 Pt \# PM-C12-YPK100


CGA 320 Dust Cap - Red Pt \# PM-C12-RPK1000 Pt \# PM-C12-RPK100

CGA Plugs are available in Packs of 1,000 (PK1000) and Packs of 100 (PK100)

Note: All colors shown are printed representations. Actual colors may vary.

## CO2 CYLINDER ACCESSORIES Carry Handles for Aluminum Cylinders

## PROTECTS THE VALVE AND AIDS IN THE TRANSPORTATION OF THE CYLINDER

- KIDDE NECK = 2-3/16" diameter •LUXFER NECK = 2-3/8" diameter •CATALINA NECK = 2-5/8" diameter


Catalina ${ }^{\circledR}$ Style Pt \# CCH-AC-BK AC Style: OD = 3-7/8", ID = 2-3/4"

Luxfer® Style Pt \# CCH-AL-BK AL Style: OD = 3-7/8", ID = 2-1/2"


Note: All colors shown are printed representations. Actual colors may vary.

Aluminum Cylinder Carry Handles
Plastic Valve Protection Carry Handles are available to fit Catalina ${ }^{\circledR}$ and Luxfer® brand aluminum cylinders. We stock carry handles and retaining rings for both manufacturers cylinders. For 15 and 20 lb . Aluminum cylinders. Can be installed without removing valve.
For $\mathbf{1 5}$ \& $\mathbf{2 0} \mathbf{~ l b}$. Aluminum Cylinders

| Part \# | Description |
| :--- | :--- |
| CCH-AC-xx | Catalina® Style Carry Handle |
| CCH-AC-R | Retaining Ring for Catalina® Style Carry Handles |
| CCH-AL-xx | Luxfer® Style Carry Handle |
| CCH-AL-R | Retaining Ring for Luxfer® Style Carry Handles |
| CCH-AS-xx | Thread On Style Carry Handle |

## Ordering Information:

Replace xx in the part number with the color codes below Black - BK, Blue - B, Red - RR, Yellow - Y, Green - GR, Orange - 0

## Kidde Style Aluminum Cylinder Carry Handles

Kidde Style Aluminum Cylinder Carry Handles
Part \# Description
CCH-AK-BK Kidde Style Cylinder Carry Handle and Retaining Ring, Black
CCH-AK-BL Kidde Style Cylinder Carry Handle and Retaining Ring, Blue


Installing Carry Handles for Aluminum Cylinder


Premium Carry Handles


AC Style: OD = 3-7/8", ID = 2-3/4"
AL Style: $O D=3-7 / 8^{\prime \prime}, I D=2-1 / 2^{\prime \prime}$
Premium Carry Handles

| Part \# | Description |
| :--- | :--- |
| CHP-AC-BK | Catalina Style Cylinder Premium Carry Handle <br> and Retaining Ring, Black |
| CHP-AL-BK | Luxfer Style Cylinder Premium Carry Handle <br> and Retaining Ring, Black |



## Cylinder Safety Conversion Kit

Handle \& snap ring with steel cylinder adapter Allows addition of plastic carrying handle to steel cylinders.
(Adapter comes with set screws.)

## CO2 Wrenches

Offered in two different styles

Small Cylinder Status Tags
Economy Paper Tags
MOST COMMON
2

PART FULL
Part \# Description
WR-CO2-F CO2 Wrench - Flat (Standard)
WR-CO2-O CO2 Wrench - Offset
Pt \# WR-CO2-O
Part \# Description

CCH-118 Conversion Kit 1.9"

Valve must be removed to install handle.


"





PTFE Seals for CO2


PTFE Seals for CO2

| Description | Part \# for Pack of 100 | Part \# Pack of 10 |
| :--- | :--- | :--- |
| PTFE Seals for CO2 | CO2-TWSEALPK100 | CO2-TWSEALPK10 |
| FIBRE, 320/330 | PH-320WFPK100 | PH-32OWFPK10 |

## String Tie <br> Pt \# CB-EPT

The String Tie does not stretch or loop around the cylinder.

Small Economy Paper Tags
\(\left.$$
\begin{array}{lll} & \begin{array}{l}\text { Part \# for } \\
\text { Pkg. of } 1000\end{array} & \text { Description }\end{array}
$$ \begin{array}{l}Part \# for <br>

Pkg. of 100\end{array}\right]\)| CB-EPTPK1000 | String Tie | (Pt \# CB-EPTPK100) |
| :--- | :--- | :--- |
| CB-1EPTIPK1000 | Elastic Tie | (Pt \# CB-1EPTIPK100) |

## C02 CYLINDER ACCESSORIES Cylinder Boots High Pressure Cylinder Caps

## Cylinder Boots

The Cylinder Boot is made out of black molded plastic. Slip onto round bottom CO2 tanks to convert to upright standing cylinders.


Allows most older, round bottom cylinders to free stand

Molded Plastic Cylinder Boot, 8" Diameter Part \# CO2-C8


Octagonal Steel Cylinders with round bottom Part \# CO2-CDB-SO7


Round Rim Aluminum Cylinders with flat bottom Part \# CO2-CDB-AR7

| Part Number | Diameter | Rim | Cylinder Type |
| :--- | :--- | :--- | :--- |
| CO2-CDB-A07 | $7.25^{\prime \prime}$ Dia | Octagonal | Aluminum Cylinders (flat bottom) |
| CO2-CDB-AR7 | $7.25^{\prime \prime}$ Dia | Round Rim | Aluminum Cylinders (flat bottom) |
| CO2-CDB-S07 | $7.25^{\prime \prime}$ Dia | Octagonal | Steel Cylinders (round bottom) |
| CO2-CDB-SR7 | $7.25^{\prime \prime}$ Dia | Round Rim | Steel Cylinders (round bottom) |
| CO2-CDB-A08 | $8^{\prime \prime}$ Dia | Octagonal | Aluminum Cylinders (flat bottom) |
| CO2-CDB-SR8 | $8^{\prime \prime}$ Dia | Round Rim | Steel Cylinders (round bottom) |
| CO2-CB | $8^{\prime \prime}$ Dia | Round Rim | Older, Round bottoms to free stand |

High Pressure Cylinder Caps


Caps Painted Black 6 1/2" - 3 1/8-11



Caps Unpainted 6 1/2" - 3 1/8-11

- MOST COMMON Fine Thread


## Unpainted

High Pressure Cylinder Caps

| Part \# | Description |
| :--- | :--- |
| 8FRNP | Fine Thread |
| 8CRNP | Coarse Thread |

Painted - Fine Thread

|  | Part \# |
| ---: | :--- |
| $\Rightarrow$ | Color |
| $\Rightarrow$ | 8FRNP-08 |
|  | White |
|  | 8FRNP-02 |
|  | Black |
| 8FRNP-06 | Gray |

Painted - Coarse Thread

| Part \# | Color |
| :--- | :--- |
| 8CRNP-08 | White |
| 8CRNP-02 | Black |
| 8CRNP-06 | Gray |

4. WARNING: Products in this catalog can expose you to chemicals including lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

## Cap Wrench

 for Removing those "hard-to-open" caps

## Cylinder Cap and Regulator Inlet Nut Wrench



## Dewar Rear Mount Pressure Gauges

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


Packaged Gauge


Part \# PG-400


Part \# RL2.0-TWIST

## 1/4" NPT Rear Mount Pressure Gauges

Part \# PSI Description

PG-60 0-60 PSI 2" Dial, $1 / 4$ " NPT Rear Mount Pressure Gauges \begin{tabular}{ccc}
\hline PG-100 \& $0-100 \mathrm{PSI}$ \& $2^{\prime \prime}$ Dial, $1 / 4^{\prime \prime}$ NPT Rear Mount Pressure Gauges <br>
\hline

 PG-400 $\quad 0-400 \mathrm{PSI} \quad 2^{\prime \prime}$ Dial, $1 / 4^{\prime \prime}$ NPT Rear Mount Pressure Gauges 

\hline PG-600 \& $0-600 \mathrm{PSI}$ \& $2^{\prime \prime}$ Dial, $1 / 4^{\prime \prime}$ NPT Rear Mount Pressure Gauges <br>
\hline
\end{tabular} RL2.0-TWIST $\quad$ Replacement Lens, 2" Face, Twist On

## Stainless Steel Gauges

These stainless steel gauges with their rugged construction provide resistance to the most corrosive media and environments. The gauges feature 316 stainless steel wetted parts and 304 stainless steel case and crimped ring, and can be liquidfilled in the field.


Standard Ranges / PSI \& Part \# - Gauge Stainless Steel

| Press. Scale / PSI | Part \# | Description |
| ---: | :--- | :--- |
| $30^{\prime \prime}-0-30 \mathrm{psi}$ | PG-SS3030 | Lower Mount $-30^{\prime \prime}-0-30 \mathrm{psi}$ |
| $30^{\prime \prime}-0-60 \mathrm{psi}$ | PG-SS3060 | Lower Mount $-30^{\prime \prime}-0-60 \mathrm{psi}$ |
| 15 psi | PG-SS15 | Lower Mount -15 psi |
| 30 psi | PG-SS30 | Lower Mount -30 psi |
| 60 psi | PG-SS60 | Lower Mount -60 psi |
| 100 psi | PG-SS100 | Lower Mount -100 psi |
| 200 psi | PG-SS200 | Lower Mount -200 psi |
| 400 psi | PG-SS400 | Lower Mount -400 psi |
| 600 psi | PG-SS600 | Lower Mount -600 psi |
| 1000 psi | PG-SS1000 | Lower Mount -1000 psi |
| 2000 psi | PG-SS2000 | Lower Mount -2000 psi |
| 3000 psi | PG-SS3000 | Lower Mount -3000 psi |
| 5000 psi | PG-SS5000 | Lower Mount -5000 psi |
| 10000 psi | PG-SS10000 | Lower Mount -10000 psi |

Steel Painted Gauges

These Gauges have a Painted Steel Case and are $1 / 4^{\prime \prime}$ Male NPT with Lower Mount and Dual Scale Dial.


Part \# PGSP-LM60

2" Diameter Gauge, Gold Painted Steel

| Part \# | PSI Range |
| :--- | :--- |
| PGSP-LM30R | $0-30$ PSI with Red Line |
| PGSP-LM60 | $0-60$ PSI |
| PGSP-LM100 | $0-100$ PSI |
| PGSP-LM200 | $0-200$ PSI |
| PGSP-LM300 | $0-300$ PSI |
| PGSP-LM400 | $0-400$ PSI |
| PGSP-LM600 | $0-600$ PSI |
| PGSP-LM1500 | $0-1500$ PSI |
| PGSP-LM3000 | $0-3000$ PSI |
| PGSP-LM4000 | $0-4000$ PSI |
| PGSP-LM6000 | $0-6000$ PSI |



Part \# PGSP-LM40015-RD

## Call for Information on Nitrile Latex-Free Gloves

1 1/2" Diameter Gauge, Painted Steel

| Part \# | PSI Range |
| :--- | :--- |
| PGSP-LM30R15 | $0-30$ PSI with Red Line |
| PGSP-LM10015-GR | $0-100$ PSI - Green Case |
| PGSP-LM20015-GR | $0-200$ PSI - Green Case |
| PGSP-LM40015-RD | $0-400$ PSI - Red Case |
| PGSP-LM400015-GR | $0-4000$ PSI - Green Case |

Part \# PGSP-LM10015-GR


## Brass - Single Scale Gauges

These Gauges have a Brass Case and are 1/4" Male NPT with lower mount, single scale.


2" Diameter Single Scale Gauge

| Part \# | PSI Range |
| :--- | :--- |
| PG-LMS30R | $0-30$ PSI with Red Line |
| PG-LMS100 | $0-100$ PSI |
| PG-LMS200 | $0-200$ PSI |
| PG-LMS400 | $0-400$ PSI |
| PG-LMS4000 | $0-4000$ PSI |

2 1/2" Diameter Single Scale Gauge

## Part \# PSI Range

PG-LMS3025R 0-30 PSI with Red Line PG-LMS10025 0-100 PSI PG-LMS20025 0 0-200 PSI PG-LMS40025 0 0-400 PSI PG-LMS60025 0 0-600 PSI
PG-LMS400025 0-4000 PSI

[^9]
## Brass - Dual Scale Gauges

These Gauges have a Brass Case and are $1 / 4^{\prime \prime}$ Male NPT with lower mount, dual scale.


- Stainless Steel Wetted Parts
- Stainless Steel Case \& Crimp Ring
- Field Liquid-Fillable
- Welded Connection on 2 1/2" Size
- Cleaned for Oxygen Service


## CO2 CYLINDER ACCESSORIES Dust Cover Bev \& Food Grade Valve Wrap

## TAMPER EVIDENT sOLUTIONS FOR BEVERAGE CO2



Beverage Grade CO2 Valve Wrap - Imprint White Material
Pt \# SW-CO2-BG-PK200


Food Grade CO2 Valve Wrap - Imprint White Material
Pt \# SW-CO2-FG-PK200


## TAMPER EVIDENT <br> CGA-32O DUST COVER



Tightening the strap down
Breaking tamper evident seal - removing dust cover

## Tamper Evident CGA-320 Dust Cover

| Part \# | Description |
| :--- | :--- |
| HP-WQP320PK100 | Tamper Evident CGA-320 Dust Cover, Red - Pack of 100 |
| HP-WQP320PK1000 | Tamper Evident CGA-320 Dust Cover, Red - Pack of 1,000 |

36-BEV 2024 Ratermann IManufacturing, Inc. Customer Service 1-800-264-7793 || Fax 1-800-264-7797 I Order Online at Web Store www.rmiorder.com

## CARBON DIOXIDE Cryogenic Bulk Hose Fittings for Carbon Dioxide



CARBON DIOXIDE Cryogenic Bulk Hose Fittings for Carbon Dioxide


Tail Dust Plug Assembly C02 Brass
Material
Brass Bar per ASTM-B16, with
Stainless Steel Safety Cable


| O-Ring for Head Piece with O-Ring Option (Viton) |  |  |  |  |  | Head Piece Carbon Dioxide with O-Ring Groove <br> Materials <br> Brass Bar per ASTM B16 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Size | Inches | Mм | Inches | MM | Part Number | Size | NPT | Inches | MM | Inches | MM |  |  |
| HPT-OR200 | $2^{\prime \prime}$ | 1.989 | 50.52 | . 063 | 1.78 | HPTO-CO2-200 | $2^{\prime \prime}$ | 2-11 1/2 | 3.156 | 80.2 | 2.875 | 73. | 2.12 | 54.0 |
| HPT-OR300 | 3" | 2.987 | 75.87 | . 094 | 2.62 | HPTO-CO2-300 | $3^{\prime \prime}$ | 3-8 | 4.187 | 106.3 | 4.250 | 108.0 | 3.250 | 82.6 |

## 2" Hose Nut <br> Carbon Dioxide (Brass)

Material
Brass Bar per ASTM B16



## 3" Hose Nut

 Carbon Dioxide (Cast High Strength Magnesium Bronze)Material
Cast High Strength
Magnesium Bronze per
ASTM B584


| Part Number | Size | Thread Size | A |  | B |  | C |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Inches | MM | Inches | MM | Inches | M M |
| BHN-CO2-300-HS | 3" | $41 / 2-6$ Acme | 1.50 | 38.1 | 5 | 127.0 | 6.75 | 171.5 |

## Retaining <br> Rings for Hose End Assemblies

| Part Number |  | A |  | T |  | H |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Size | Inches | MM | Inches | MM | Inches | MM | Material |
| BHRR-200 | 2" | 2.197 | 55.80 | . 078 | 1.98 | . 125 | 3.18 | Stainless Steel |
| BHRR-300 | $3 "$ | 3.552 | 90.22 | . 120 | 3.048 | . 187 | 4.75 | Zinc Plated Steel |

## CARBON DIOXIDE Cryogenic Bulk Hose Fittings for Carbon Dioxide

## Carbon Dioxide Fixed End Assembly with 1/2" FNPT Purge Ports <br> Carbon Dioxide Dust Cap Assembly <br> 

## Carbon Dioxide

 Fixed End BrassMaterials Forged Brass per ASTM B283 for $1^{\prime \prime}$ and 1 1/2" sizes Brass Bar per ASTM B16 for 2", 3" and 4" sizes


| Part Number | Size | NPT | $\begin{gathered} \text { "T" } \\ \text { Thread-Size } \end{gathered}$ | A |  | Wrench-Flats B |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Inches | MM | Inches | MM |
| FE-CO2-100 | $1 "$ | 1-11 1/2 | 1.687-6 Acme | 2.500 | 63.5 | 1.375 | 34.9 |
| FE-CO2-150 | $11 / 2^{\prime \prime}$ | 11/2-11 1/2 | 2.250-6 Acme | 2.500 | 63.5 | 2.000 | 50.8 |
| FE-CO2-200 | $2 "$ | 2-11 1/2 | 3.187-6 Acme | 3.000 | 76.2 | 2.500 | 63.5 |
| FE-CO2-300 | 3" | 3-8 | 4.500-6 Acme | 4.062 | 103.2 | 3.625 | 92.1 |

Materials
Brass Bar per ASTM B16, with Stainless Steel Safety Cable for $1^{\prime \prime}, 11 / 2^{\prime \prime}$ and $2^{\prime \prime}$ sizes Aluminum Bar per ASTM B-221, with Stainless Steel Safety Cable for 3" and 4" sizes

| Part Number | Size | Material |
| :--- | :---: | :---: |
| BH-DCA-100-CO2 | $1^{\prime \prime}$ | Brass |
| BH-DCA-150-CO2 | $11 / 2^{\prime \prime}$ | Brass |
| BH-DCA-200-CO2 | $2^{\prime \prime}$ | Brass |
| BH-DCA-300-CO2 | $3^{\prime \prime}$ | Aluminum | BH-DCA-300-CO2



## Carbon

Dioxide Fixed End with 1/2" FNPT Purge Ports (Brass)

Materials
Brass Bar per ASTM B16


| Part Number | Size | NPT | "T" <br> Thread Size | A |  | $\begin{aligned} & \text { Wrench-Flats } \\ & \mathbf{B} \end{aligned}$ |  | C |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Inches | MM | Inches | MM | Inches | MM |
| FEPP-CO2-100 | $1 "$ | 1-11 1/2 | 1.687-6 Acme | 4 | 101.6 | $13 / 4$ | 44.5 | $27 / 16$ | 61.9 |
| FEPP-CO2-150 | $1^{1 / 2^{\prime \prime}}$ | 11/2-11 1/2 | 2.250-6 Acme | 4 | 101.6 | $23 / 8$ | 60.3 | 27/16 | 61.9 |

Carbon
Dioxide Dust Cap Assembly

Materials
Brass Bar per ASTM B16, with Stainless Steel
Safety Cable for $1^{\prime \prime}$ and 1 1/2" sizes

| Part Number | Size | Material |
| :--- | :---: | :--- |
| BH-DCA-100-CO2 | $1^{\prime \prime}$ | Brass |
| BH-DCA-150-CO2 | $11 / 2^{\prime \prime}$ | Brass |

## CARBON DIOXIDE Cryogenic Bulk Hose Fittings for Carbon Dioxide

Male to Male<br>Adapter to<br>Connect<br>Two or More<br>Lengths of<br>Hoses<br>(Brass)<br>Material - Brass per ASTM B16



| Part Number | Size | A |  | "T" | Wrench-Flats |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Inches | Mм | Thread-Size | Inches | мм |
| BMA-100-CO2 | $1{ }^{1 \prime}$ | 3.375 | 85.7 | 1.687-6 Acme | 1.375 | 34.9 |
| BMA-150-CO2 | $11 / 2^{\prime \prime}$ | 3.375 | 85.7 | 2.250-6 Acme | 2.000 | 50.8 |
| BMA-200-CO2 | $2 "$ | 3.375 | 85.7 | 3.187-6 Acme | 2.500 | 63.5 |
| BMA-300-CO2 | 3 " | 3.375 | 85.7 | 4.500-6 Acme | 3.625 | 92.1 |
| BMA-150/200-CO2 | $2^{\prime \prime}-11 / 2^{\prime \prime}$ | 3.375 | 85.7 | $\begin{aligned} & \text { 3.187-6 Acme } \\ & \text { 2.250-6 Acme } \end{aligned}$ | 2.500 | 63.5 |
| BMA-100/150-CO2 | $11 / 2^{\prime \prime}-1{ }^{\prime \prime}$ | 3.375 | 85.7 | 2.250-6 Acme <br> 1.687-6 Acme | 2.000 | 50.8 |

Open End Wrenches $\quad \begin{aligned} & \text { Material - Cast } \\ & \text { Aluminum per }\end{aligned}$
(Aluminum Anodized) ASTM B26

| Part Number | Fits | A |  | B |  | c |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Inches | MM | Inches | MM | Inches | мм |
| BFAW-100/150-NUT | $1^{\prime \prime}$ \& $11 / 2^{\prime \prime}$ Nut | 16 | 406.4 | $23 / 4$ | 69.9 | $21 / 4$ | 57.2 |
| BFAW-100/150-FXE | $1^{\prime \prime}$ \& 11/2" FE* | 16 | 406.4 | $13 / 8$ | 34.9 | 2 | 50.8 |
| BFAW-100/200-FXE | 1" \& 2" FE* | 16 | 406.4 | $13 / 8$ | 34.9 | $21 / 2$ | 63.5 |
| BFAW-100/200-NUT | 1" \& 2" Nut | 20 | 508.0 | $21 / 4$ | 57.2 | $33 / 4$ | 95.3 |
| BFAW-200NUT200FXE | $2^{\prime \prime}$ Nut/ $/ 2^{\prime \prime} \mathrm{FE}$ * | 20 | 508.0 | $33 / 4$ | 95.3 | $21 / 2$ | 63.5 |
| BFAW-150/200-NUT | $11 / 2^{\prime \prime}$ \& $2^{\prime \prime}$ Nut | 20 | 508.0 | $33 / 4$ | 95.3 | $23 / 4$ | 69.9 |

* FE $=$ Fixed End


## Full Coupling to Adapt NPT Male Hoses (304 Stainless Steel)

Material - Type 304 Stainless Steel per ASTM A276

|  | Hose |  | A |  | B |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Size | NPT | Inches | MM | Inches | MM |
| BFC-F1 | $1^{\prime \prime}$ | $1-111 / 2$ | 1.937 | 49.2 | 1.562 | 39.7 |
| BFC-F12 | $11 / 2^{\prime \prime}$ | $11 / 2-111 / 2$ | 2.125 | 54.0 | 2.188 | 55.6 |
| BFC-F2 | $2^{\prime \prime}$ | $2-111 / 2$ | 2.50 | 63.5 | 2.75 | 69.9 |

## Reducing Couplings to Adapt NPT Male Hoses (304 Stainless Steel)



Hex Brass Coupling to Adapt Tanks for Fixed End
Material - Brass per ASTM B16


| Part Number | Hose | NPT | A |  | B |  | C |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Inches | MM | Inches | MM | Inches | MM |
| BCH-F1 | $1 "$ | 1-11 1/2 | 2.50 | 63.5 | 1.75 Hex | 44.5 | 1.72 | 43.7 |
| BCH-F112 | $11 / 2^{\prime \prime}$ | 11/2-11 1/2 | 2.50 | 63.5 | 2.50 Hex | 63.5 | 2.47 | 62.7 |
| BCH-F2 | 2 " | 2-11 1/2 | 2.50 | 63.5 | 3.00 Hex | 76.2 | 2.97 | 73.7 |

## Hex Brass Bushing with 3 Purge Ports to Adapt Trailers for Fixed End



Material - Brass per ASTM B16 shipped complete with two 1/2" Brass Pipe Plugs

| Pt Number | Size | NPT |  |  | A |  | B |  | C |  | D |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 | Inches | MM | Inches | MM | Inches | MM | Inches | MM |
| BCH-PP-F112M112 | $11 / 2^{\prime \prime}$ | 11/2-11 1/2 | 11/2-11 1/2 | 1/2-14 | 4.250 | 107.9 | 2.500* | 63.5 | 2.47 | 62.7 | 1.50 | 38.1 |
| BCH-PP-F2M112 | $2 "$ | 2-11 1/2 | 11/2-11 1/2 | 1/2-14 | 4.250 | 107.9 | 2.500* | 63.5 | 2.47 | 62.7 | 1.50 | 38.1 |
| BCH-PP-F2M2 | $2 "$ | 2-11 1/2 | 2-11 1/2 | 1/2-14 | 4.250 | 107.9 | 3.000* | 76.2 | 2.97 | 73.7 | 2.00 | 50.8 |

## Carbon Dioxide Specifications

Service Pressure: 1800psi/124bar
Specification: DOT-3AL \& TC-3ALM designed ISO design cylinders are available
Alloy: Manufactured from high strength aluminum alloy 6061-T6
Threads:

Markings:

Finish:
Graphics:
SLB \& larger supplied with 1.125-12 UNF thread, all others with .750-16 UNF thread
Other thread sizes available upon request

As required by specification, inclusive of tare weight
Additional markings available upon request Standard finish is brushed body with unpainted crown
Logos or labels in silkscreen or Duragrafix available upon request

## IDEAL FOR DISPENSING CARBONATED SOFT DRINKS, BEERS, LAGERS AND OTHER BEVERAGES.

NOTE: Cylinders have D.O.T. approval to be filled with several gases including NITROGEN, BLENDED GAS, etc. Check with your local filler or welding supply. Fillable up to 1800 PSI

CO2 Cylinders - Aluminum 1800 PSI Working Pressure

| PART \# | WATER CAPACITY |  |  | DIAMETER |  | LENGTH |  | CYLINDER WEIGHT |  | CO2 |  | NITROGEN cu ft |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | cu in |  |  |  | mm | in | mm |  | kgs | lbs | kgs |  |
| CYL-CO2-2LB | 83.0 | 3.0 | 1.40 | 4.38 | 111.3 | 8.5 | 213 | 2.9 | 1.3 | 2.0 | 0.9 | 5.9 |
| CYL-CO2-2.5LB | 102 | 3.7 | 1.70 | 4.38 | 111.3 | 10.3 | 262 | 3.3 | 1.5 | 2.5 | 1.1 | 7.2 |
| CYL-CO2-5LB | 203 | 7.4 | 3.40 | 5.25 | 133.4 | 14.2 | 361 | 6.3 | 2.9 | 5.0 | 2.3 | 14.5 |
| CYL-CO2-10LB-H | 407 | 14.7 | 6.70 | 6.89 | 175.0 | 16.5 | 419 | 12.6 | 5.7 | 10.0 | 4.5 | 29.0 |
| CYL-CO2-15LB-H | 612 | 22.1 | 10.0 | 6.89 | 175.0 | 23.1 | 587 | 16.8 | 7.6 | 15.0 | 6.8 | 43.3 |
| CYL-CO2-20LB-H | 814 | 29.4 | 13.3 | 8.00 | 203.2 | 23.2 | 589 | 23.7 | 10.8 | 20.0 | 9.1 | 57.6 |
| CYL-CO2-22LB-H | 901 | 32.5 | 14.7 | 8.00 | 203.2 | 25.1 | 638 | 25.3 | 11.5 | 22.0 | 10.0 | 63.5 |
| CYL-CO2-35LB-H | 1426 | 51.5 | 23.4 | 8.00 | 203.2 | 37.8 | 960 | 35.2 | 16.0 | 35.0 | 15.9 | 100.9 |
| CYL-CO2-50LB-H | 2035 | 73.5 | 33.3 | 8.60 | 218.4 | 46.3 | 1175 | 48.3 | 21.9 | 50.0 | 22.7 | 144.0 |

10 LB thru 50 LB come with Carry Handles.
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

## Cylinder Painting and Stamping for Easy Identification

Call us today to have your cylinders PAINTED and STAMPED for easy identification.

> 1 - Choose Your Style \& Color
> 2 - Choose Your Stamp - Use any combination of letters and numbers

## Aluminum Industrial Cylinders

Preferred cylinder package for specialty gas, exotic gas and high-purity gas mixtures.

## Features

- Lightweight, high strength 6061-T6 alloy
- Corrosion-resistant interior and exterior
- Stringent internal cleaning process ensures compliance with customer specifications
- Available with straight or tapered threads
- Uses Industrial CGA540, 580 or comparable valve, sold separately
- Wide color range available, including a durable, brushed exterior finish


## Manufactured to DOT and TC requirements

- U.S. Department of Transportation (DOT) 3AL
- Transport Canada (TC) 3ALM
- Every cylinder inspected and tested by DOT- and TC-authorized independent agency
- Cycle-tested in excess of 100,000 cycles at service pressure
- Minimum burst pressure tested to 2.5 times service pressure without failure


Industrial and Specialty Gas Cylinders - Aluminum

| PART \# | Service Pressure |  | Water Capacity |  | Diameter |  | Length |  | Cylinder Weight |  | Oxygen |  | Nitrogen CU. FT. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PSI | BAR | LBS | LITERS | IN | MM | IN | MM | LBS | KGS | LBS | KGS |  |
| CYL-I4 | 2216 | 153 | 1.5 | 0.7 | 3.21 | 81.5 | 8.7 | 221 | 1.7 | 0.8 | 4.0 | 113 | 3.7 |
| CYL-I6 | 2216 | 153 | 2.3 | 1.0 | 3.21 | 81.5 | 11.8 | 300 | 2.3 | 1.0 | 6.0 | 170 | 5.6 |
| CYL-122 | 2216 | 153 | 8.5 | 3.9 | 5.25 | 133.4 | 16.3 | 414 | 8.2 | 3.7 | 22.0 | 623 | 20.4 |
| CYL-I24 | 2015 | 139 | 10.2 | 4.6 | 4.38 | 111.3 | 25.4 | 645 | 7.8 | 3.5 | 24.0 | 680 | 22.0 |
| CYL-I33 | 2216 | 153 | 13.0 | 5.9 | 6.89 | 175.0 | 15.3 | 388 | 13.8 | 6.3 | 33.7 | 954 | 31.2 |
| CYL-148 | 2216 | 153 | 18.6 | 8.4 | 5.25 | 133.4 | 32.2 | 818 | 15.2 | 6.9 | 48.2 | 1365 | 44.6 |
| CYL-160 | 2216 | 153 | 23.2 | 10.5 | 7.25 | 184.2 | 22.9 | 582 | 22.3 | 10.1 | 60.0 | 1699 | 55.4 |
| CYL-190 | 2216 | 153 | 34.7 | 15.7 | 7.25 | 184.2 | 32.6 | 828 | 30.4 | 13.7 | 90.0 | 2549 | 82.9 |
| CYL-1122 | 2216 | 153 | 47.1 | 21.4 | 8.00 | 203.2 | 36.2 | 919 | 40.3 | 17.9 | 122.0 | 3455 | 113.0 |
| CYL-I20L | 2900 | 200 | 44.1 | 20.0 | 8.00 | 203.2 | 36.9 | 937 | 49.5 | 22.5 | 149.0 | 4219 | 137.0 |
| CYL-I150 | 2015 | 139 | 63.7 | 28.9 | 8.00 | 203.2 | 47.2 | 1198 | 49.2 | 22.3 | 150.0 | 4248 | 138.8 |
| CYL-I265 | 2216 | 153 | 102.2 | 46.4 | 9.80 | 248.9 | 51.7 | 1313 | 84.7 | 38.4 | 265.0 | 7503 | 245.0 |

$\triangle$ WARNING: Products in this catalog can expose you to chemicals including Lead which is known to the State of California
to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

## Cylinder Storage \& Transportation Racks E-Track Strap \& Restraints

$\triangle$ WARNING: Products in this catalog can expose you to chemicals including Lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

## 20 lb . Cylinder Storage / Transportation Racks

## FEATURES:

- Meets DOT Regulations for safe and efficient storage and transportation of compressed gases when used with E-Track Strap
- Rigid welded frames construction
- Racks are forkliftable from front or side and are stackable
- E-Track Sides to use with Logistics E-Track Straps


## 20 lb. Cylinder Storage / Transportation Racks

## E-Track \& E-Track Restraints

E-Track \& E-Track Restraints

| Part \# | Description |
| :--- | :--- |
| TSK-E12 | $12^{\prime}$ E-Track Strap, Standard |
| TSK-E20 | 20' E-Track Strap, Standard |


| Part \# | Description |
| :--- | :--- |
| TS-ETRACK | 10' Sections |
| TS-ETRACK60 | 5' Sections |
| TS-ENDCAP | End Cap |




## CARBON DIOXIDE PRODUCTS Fill Boxes

## Standard Surface Mount Fill Box



Complete with CO2 Fill Nipple, 3/8" vent elbow and lockable catch or turnkey thumb lock.

| Part Number | Connection |
| :--- | :--- |
| FB-SUR-58 | $5 / 8^{\prime \prime}$ Flare |
| FB-SUR-12 | $1 / 2^{\prime \prime}$ FPT |
| FB-SUR-34 | $3 / 4^{\prime \prime}$ FPT |

## C02 Fill Box Overview

- Durable 16 Gauge 304 Stainless Steel Construction
- Surface or Flush (recessed) Mount Fill Boxes
- Extension Boxes for Fill Lines Installed on Exterior Building Walls
- Field Replaceable CO2 Fill Plates
- Lockable or Keyless Fill Box Closures
- Available CO2 Nipples:
- 5/8" Flare x Liquid CO2 Fill Nipple
- 1/2" FPT x Liquid CO2 Fill Nipple
- 3/4" FPT x Liquid CO2 Fill Nipple
"Classic" Flush Mount Fill Box


Hidden from view, this recessed fill box makes for an architecturally pleasing installation, while allowing easy access for fill and maintenance.


| Part Number | Connection |
| :--- | :--- |
| FB-FLS-58 | $5 / 8^{\prime \prime}$ Flare |
| FB-FLS-12 | $1 / 2^{\prime \prime}$ FPT |
| FB-FLS-34 | $3 / 4^{\prime \prime}$ FPT |



## Standard Surface Mount Fill Box with Removable Plate

The removable plate makes for an easier installation or quick CO2 Fill Nipple replacement.

| Part Number | Connection |
| :--- | :--- |
| FB-SUR-RP-58 | $5 / 8^{\prime \prime}$ Flare |
| FB-SUR-RP-12 | $1 / 2^{\prime \prime}$ FPT |

## Flush Mount Conversion Plate

This stainless steel plate is used to convert a "Classic" Flush Mount to a Standard Surface Mount Fill Box installation (fill box sold separately).


This fill box combination allows the ability to run the fill and vent lines in any direction along the outer building wall. The kit includes the Standard Surface Mount Fill Box, $1 / 2^{\prime \prime} 90^{\circ}$ Fitting and mounting screws.

## Keyless Standard Surface Mount Fill Box

Our integrated keyless closure system reduces unnecessary service calls due to an open fill box.


| Part Number | Connection |
| :--- | :--- |
| FB-SURKL-58 | $5 / 8^{\prime \prime}$ Flare |
| FB-SURLL-12 | $1 / 2^{\text {" }}$ FPT |
| FB-SURKL-34 | $3 / 4^{\text {" }}$ FPT |

Surface Mount Cover Plate not shown
A stainless steel plate that covers the opening left by a Standard Surface Mount Fill Box that has been removed.

| Part Number | Description |
| :--- | :--- |
| FB-FLS-CONPLT | Flush Mount Conversion Plate |
| FB-SUR-COVPLT | Surface Mount Cover Plate |

## Standard Surface Mount Fill Box Extension Only

Compatible with the Standard Surface Mount Fill Box (Part \# FB-SUR-12 sold separately). The $1 / 2^{\prime \prime} 90^{\circ}$ Fitting and mounting screws are included.


| Part Number | Description |
| :--- | :--- |
| FB-EXKIT-SUR-12 | Standard Surface Mount Fill Box Extension Kit |
| FB-EX-SUR | Standard Surface Mount Fill Box Extension Only |

[^10]
## Dry Ice Poly Boxes

## Dry Ice Poly Boxes

Dry ice poly boxes provide a wide variety of USDA approved insulated dry ice storage boxes for use with dry ice pellets, discs, slices or blocks. Our line of high-quality polyethylene storage containers are designed specifically for holding and transporting items that require dry ice or wet ice. The boxes are built to withstand the extreme cold temperatures of dry ice while retaining the durability needed for everyday operation.

## FEATURES

- Made of double-wall polyethylene that is filled with urethane foam insulation
- Virtually unbreakable in daily operations
- Lightweight and durable for easy mobility
- Maintains critical temperatures for your laboratory specific materials
- Ideal for CO2 cleaning, frozen food, medical \& laboratory applications
- Casters are available for easy maneuverability
- Hinged lids with latches
- Available with or without drains
- Optional casters available on some models


Part \# TM-TSP-11 sold with or without casters

| Part \# | External Dimensions | Internal Dimensions | Approximate Empty Weight | Dry Ice Block | Volume | Dry Ice Pellet Capacity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TM-TSP-11 | $40^{\prime \prime} \times 28^{\prime \prime} \times 43^{\prime \prime}$ | $35.5^{\prime \prime} \times 21^{\prime \prime} \times 24^{\prime \prime}$ | 110 lbs. | 12 Blocks | 11 CF | 520 lbs. |
|  | $101.6 \times 71.12 \times 109.22 \mathrm{~cm}$ | $90.17 \times 53.34 \times 60.96 \mathrm{~cm}$ | 49.9 kg |  | . $320 \mathrm{~m}^{3}$ |  |
| TM-TSP-27 | $47.5^{\prime \prime} \times 43^{\prime \prime} \times 39.75^{\prime \prime}$ | $41.5^{\prime \prime} \times 37{ }^{\prime \prime} \times 30$ ' | 204 lbs. | 36 Blocks | 27 CF | 1,400 lbs. |
|  | $120.65 \times 109.22 \times 100.97 \mathrm{~cm}$ | $105.41 \times 93.98 \times 76.20 \mathrm{~cm}$ | 92.53 kg |  | . 786 m ${ }^{3}$ |  |
| TM-TSP-30 | $47.5^{\prime \prime} \times 43^{\prime \prime} \times 41.5^{\prime \prime}$ | $41.5^{\prime \prime} \times 37{ }^{\prime \prime} \times 31$ " | 220 lbs . | 36 Blocks | 30 CF | 1,450 lbs. |
|  | $120.65 \times 109.22 \times 109.95 \mathrm{~cm}$ | $107.95 \times 93.98 \times 78.74 \mathrm{~cm}$ | 99.79 kg |  | . $873 \mathrm{~m}^{3}$ |  |
| TM-TSP-34 | $56.75^{\prime \prime} \times 46.75^{\prime \prime} \times 36^{\prime \prime}$ | $51^{\prime \prime} 41^{\prime \prime} \times 28$ " | 200 lbs. | 40 Blocks | 34 CF | 1,800 lbs. |
|  | $144.15 \times 118.75 \times 91.44 \mathrm{~cm}$ | $129.54 \times 104.14 \times 71.12 \mathrm{~cm}$ | 90.72 kg |  | . $9894 \mathrm{~m}^{3}$ |  |

## Remote Oxygen Depletion Safety Alarm MTR-RAD-0002

## Series MTR-RAD-0002 Remote Oxygen Depletion Safety Alarm

The MTR-RAD-0002 Remote Oxygen Depletion Safety Alarm is designed to detect oxygen depletion in enclosed spaces and to warn occupants of low oxygen levels. Low concentrations of oxygen (O2) in confined spaces are dangerous, and may lead to
health problems ranging from headaches and fatigue to asphyxiation and death. This monitor has both audible and visual alarms which activate when the O 2 concentration is lower than the pre-set alarm levels. Detection of low levels of O 2 will also activate relays that can be used for a fan or airhandling system to ventilate the confined space and improve O 2 concentration in the area.

The first audible and visual alarms will activate when the oxygen concentration falls below 19.5\% per OSHA requirements.


Pt \# MTR-RAD-0002

## Features

- Large digital LCD display
- Separate SEU (Main Sensor) and RDU (Remote Display)
- 3 Relay outputs to control ventilation devices
- 4-20mA Outputs - O2: 0~25\%, Temp: 32 to $122^{\circ} \mathrm{F}$
- Audible and visual indications at 3 alarm levels
- Ability to add strobes for additional indication
- Automatic barometric pressure compensation


## Accessories

- CM-1026 I Dual Strobe Add On Kit
- CM-0126-5,6 I Strobe Tower Add On Kit
- RAD-0022I Additional Remote Display


## Applications

- Cryogenics
- Cryotherapy
- Food Production Facilities
- Process Cooling
- Any enclosed space storing inert gases


| Remote Oxygen Depletion Safety Alarm |  |
| ---: | :--- |
| Range | $0-25 \%$ display |
| Display Resolution | $0.1 \%$ |
| Accuracy | Better than $2 \% \mathrm{FS}$ |
| Temperature Range | $32^{\circ} \mathrm{F}$ to $122^{\circ} \mathrm{F}\left(0^{\circ} \mathrm{C}\right.$ to $\left.50^{\circ} \mathrm{C}\right)$ |
| Response Time | $02:<2 \mathrm{~min}$ by $90 \%$ |
| $\mathbf{O 2 ~ A L 1 ~}$ | $18.0 \%, 18.5 \%, 19.0 \%, 19.5 \%, 20.0 \%$. |
|  | The default $\mathrm{AL1}$ is $19.0 \%$. |
| $\mathrm{O2}$ | AL2 $16.0 \%, 16.5 \%, 17.0 \%, 17.5 \%$. |
|  | The default $\mathrm{AL2}$ is $17.0 \%$ |


| Electrical and Mechanical Specifications |  |
| :---: | :---: |
| Power Supply | Output: 12VDC, 2000mA. |
| Power Input | 100~240 VAC,50/60Hz, 0.6A |
| Power Consumption | $6 \mathrm{VDC}(5.4 \mathrm{~V} \sim 7.0 \mathrm{~V})$, recommended capacity is 12 AH |
| Relays | Peak current for each relay < 2A @ 30VDC or 250VAC \& Relay configuration: SPDT |
| 4-20mA Outputs | CL01:420mA 02: 0~25\% \| <br> CL02:420mA Temp: 32 to $122^{\circ} \mathrm{F}\left(0-50^{\circ} \mathrm{C}\right)$ |
| Mounting Height | 60-72 inches from floor height |
|  | Model |
| MTR-RAD-0002 | Remote Oxygen Depletion Safety Alarm |

§ WARNING: Products in this catalog can expose you to chemicals including lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information,

## Series MTR-RAD-0102-6 <br> Remote C02 Storage Safety Three Alarm Monitor

The Remote CO2 Storage Safety Three Alarm Monitor detects carbon dioxide (CO2) levels in ambient air. This protects employees and guests from potentially hazardous gas concentrations. The MTR-RAD-0102-6 features audible and visual alarms that can trigger three individual relays. These relays can trigger third-party devices like exhaust systems and fire panels. Ensure the safety of your employees and guests as well as the compliance of your facility with the CO2 Storage Safety Three Alarm Monitor.

## Features

- LCD display clearly indicates current CO2 level in PPM or \% and temperature
- 3 alarms/relays
- Relays can automatically control ventilation fans or signal a fire alarm panel
- Meets NFPA, IFC, and NBIC requirements
- Meets OSHA and NIOSH TWA standards
- IP54 Enclosure
- UL listed for compliance



## Accessories

- SV-1028। Valve
- Restaurant \& Food


## Applications

- Breweries and Wineries
- Beverage Dispensing
- Agriculture
- Safety

| Remote C02 Storage Safety Three Alarm Monitor |  |
| :---: | :---: |
| CO2 Measurement Range | 0-5\% (0-50,000 ppm) |
| CO2 Measurement | NDIR (Non-dispersive Infrared) |
| Alarms | 5,000 TWA, 1.5\% (user configurable), $3 \%$ (user configurable) |
| Measurement Interval | 2 seconds ( 0.5 Hz ) |
| Operating Temperature | $32-122^{\circ} \mathrm{F}\left(0-50^{\circ} \mathrm{C}\right)$ |
| Calibration | Zero with Nitrogen or Factory Calibration |
| Connections | Standard RJ45 |
| Sensor Life Expectancy | >15 years |
| Electrical and Mechanical Specifications |  |
| Power Supply | 110-220 VAC 50/60 Hz to 12 VDC power adapter |
| Power Input | 4.5-5.25 VDC |
| Power Consumption | 3 Watts |
| Hard-Wired | 24 VDC hard-wired option (cable included) |
| Output | 4-20 mA |
| Alarms \& Relays |  |
| Response Time | $<60$ seconds |
| Alarm Level | 88 dB |
| Relay Power | Peak current <2A @ 30 VDC or 250 VAC, SPDT |
| Relay Color Coding | Red \& White: Normally Open, Blue \& White: Normally Closed |

[^11] harm. For more information, go to https://www.p65warnings.ca.gov

## Series MTR-RAD-0102-6 Dual Strobe Add-On Kits

These strobes provide a bright, flashing indicator for any of our CO2 or Oxygen Storage Safety Alarms. These 100 cd strobes clearly indicate the alarm level to anyone in the room

One strobe connects to the sensor display and one to the remote display via an Ethernet cable (included). No additional wiring is required. Strobes flash when Alarm 1, 2, or 3 is triggered. Does not require an additional power source.


## Features

- Strobes are connected to the main and remote units with standard RJ45 connections instead of them being controlled by the relays
- Controlled by the relay outputs on RAD sensor unit
- Input voltage: 6 to 12VDC
- Heavy duty 18 -gauge leads
- Easily connected to all security systems


## Specifications

- 6 ' ft Ethernet cables included
- Alarms:
- 5,000ppm TWA
- 1.5\% CO2
- 3\% CO2


## Applications

- Restaurants
- Breweries
- Agriculture
$\qquad$


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    www.oehha.ca.gov/proposition-65

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