

Cryogenic Application Guide

Quality flow control products paired with expert advice.











GLOBE VALVES

GATE VALVES

CHECK VALVES

RELIEF VALVES

HIGH PRESSURE VALVES

NEEDLE VALVES

IVERTERS

REGULATORS

MANIFOLDS

CYLINDER EQUIPMENT

You do not thrive for more than 100 years because you are lucky.

It takes quality products, constant innovation, and above all a dedication to the customer.

From a pioneer in the development of oxygen regulators to a global leader delivering a comprehensive line of flow control and safety products, RegO has always kept our customers' interests first.

Quality matters. Industrial gas applications have no room for leaks. That is why we design and manufacture in the U.S., test 100% of our products, and can offer a 10-year warranty. RegO products offer performance you can rely on.

Innovative products, processes and people. We invest in technology and training to deliver flow control products designed to reduce your maintenance and replacement costs, and ensure an efficient, safe work flow.

When our customers thrive, we do too. Our experienced team can provide technical support and design assistance. We are here to help in any way, every day.

REGO 10 YEAR WARRANTY

Quality materials, innovative, long-lasting design and operational excellence are built into every product we manufacture. That is how we can offer a 10-year product warranty—double that of other companies.



Designed, manufactured and 100% tested in the USA. Our four state-of-the-art facilities build the products that are most critical to your application.

Contents

Air separation unit (ASU) products	
Bulk tank storage	4
Transport trailers	6
Microbulk tank storage	8
Liquid cylinders	. 10
Liquid cryogenic delivery systems	12
Gas phase regulation stations	13
Electric transformer nitrogen delivery systems	. 14
High pressure gas tube storage and transport	15
High and medium pressure manifold and delivery systems	. 16
Gas delivery systems	17
Carbon dioxide delivery systems	. 18
Product certifications	. 19



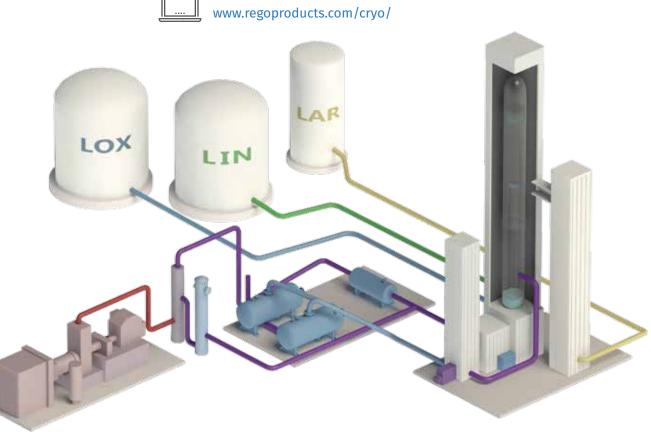


AR SERIES 9400 SERIES

Air separation unit (ASU) products

24/7 production schedules demand 24/7 toughness

RegO valves, regulators and safety devices are engineered to stand up to the toughest environments and provide years of reduced maintenance and worry-free operation. When you have been designing and manufacturing your own products for more than 100 years, you pay attention to the details—like anti-corrosive, ergonomic hand wheels and leak-proof valves that deliver superior flow rates.



Bulk tank storage

Breadth of line meets depth of knowledge

Combine RegO's industry experience, design assistance and broad product line to build a flow control system that enables maximum efficiency and excellent value for bulk storage applications.

ANGLED RELIEF VALVE

DIVERTER VALVE

TRYCOCK VALVE

CHECK VALVE

SUPPLY VALVE

PRESSURE REGULATOR

LIQUID SHUT OFF VALVE



INSTRUMENTATION VALVE

TOP FILL VALVE

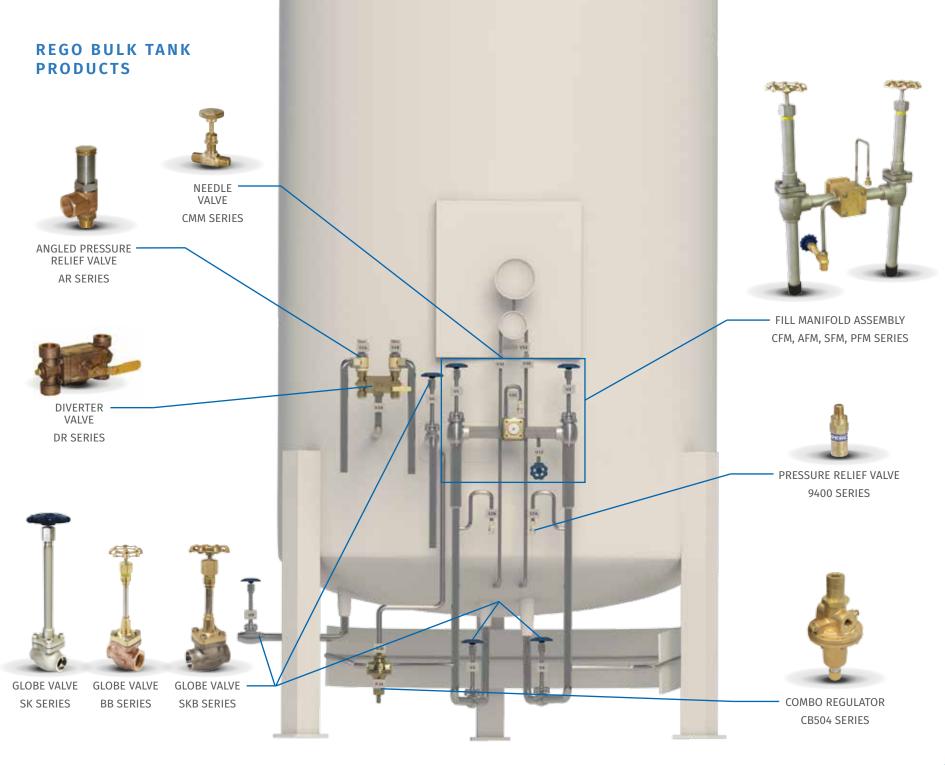
BOTTOM FILL VALVE

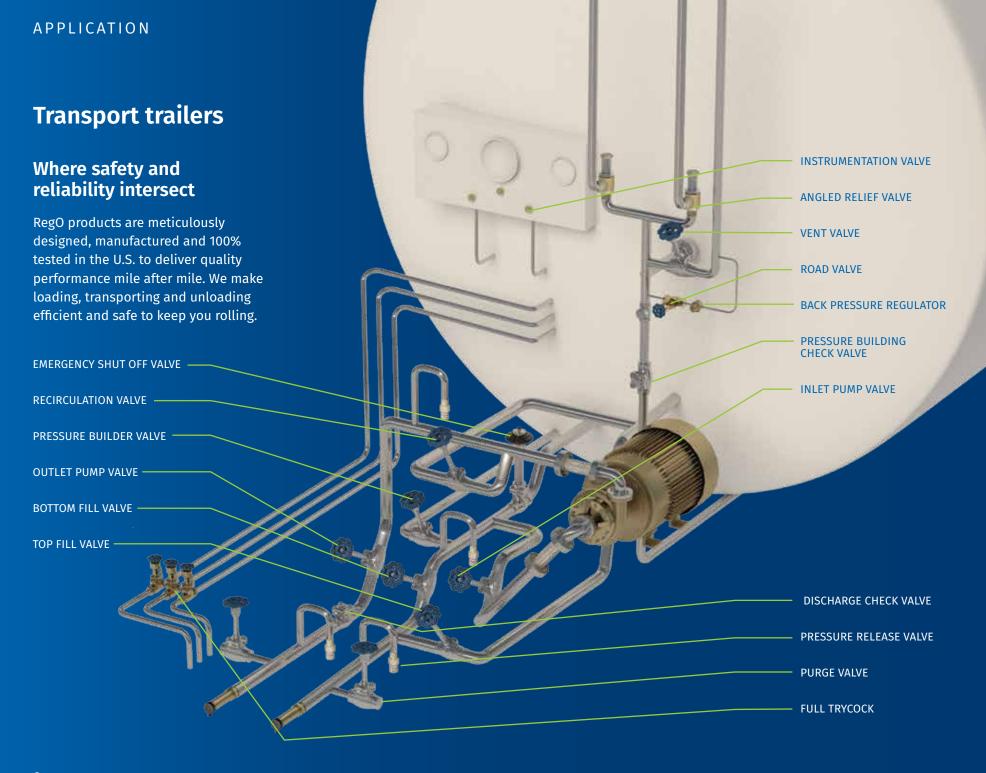
CHECK VALVE

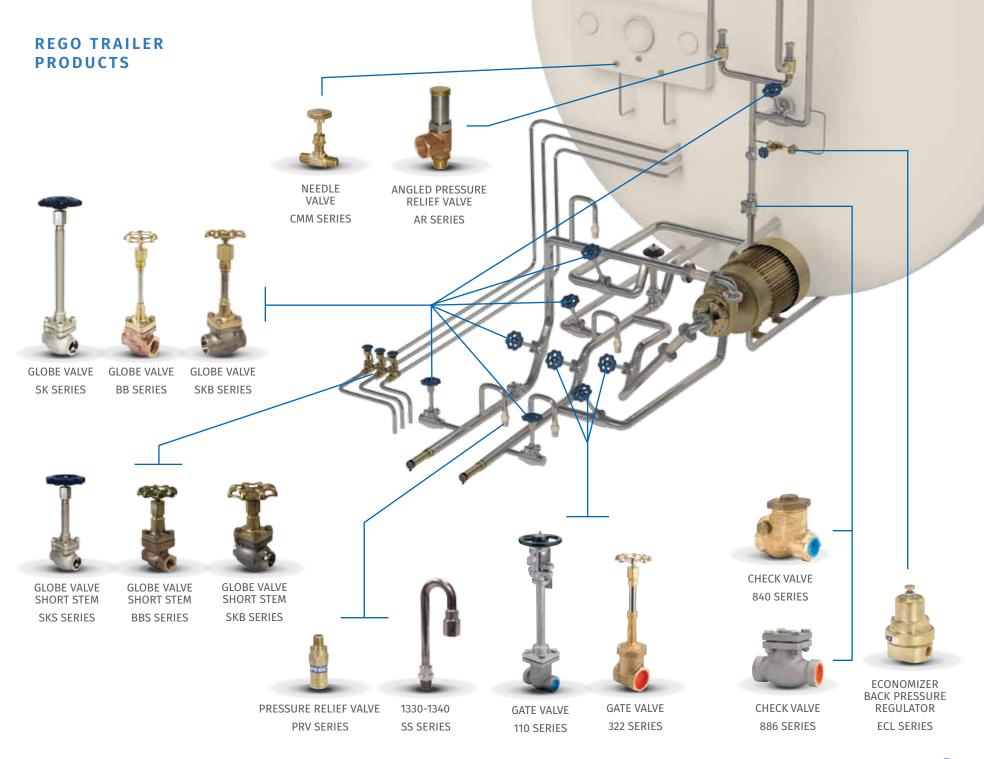
PURGE AND VENT VALVE

PRESSURE RELIEF VALVE

PRESSURE BUILDING VALVE







Microbulk tank storage

Quality comes in all sizes

Microbulks are ideal for operations that have outgrown cylinder storage solutions or need flexible installation. RegO quality assures a safe, steady supply—no matter what your storage needs are.

INSTRUMENTATION VALVE - GAS

INSTRUMENTATION VALVE - LIQUID

INSTRUMENTATION VALVE - EQUALIZER

RELIEF VALVE

ECONOMIZER ISOLATION VALVE

ECN ECONOMIZER
PB OUTLET VALVE

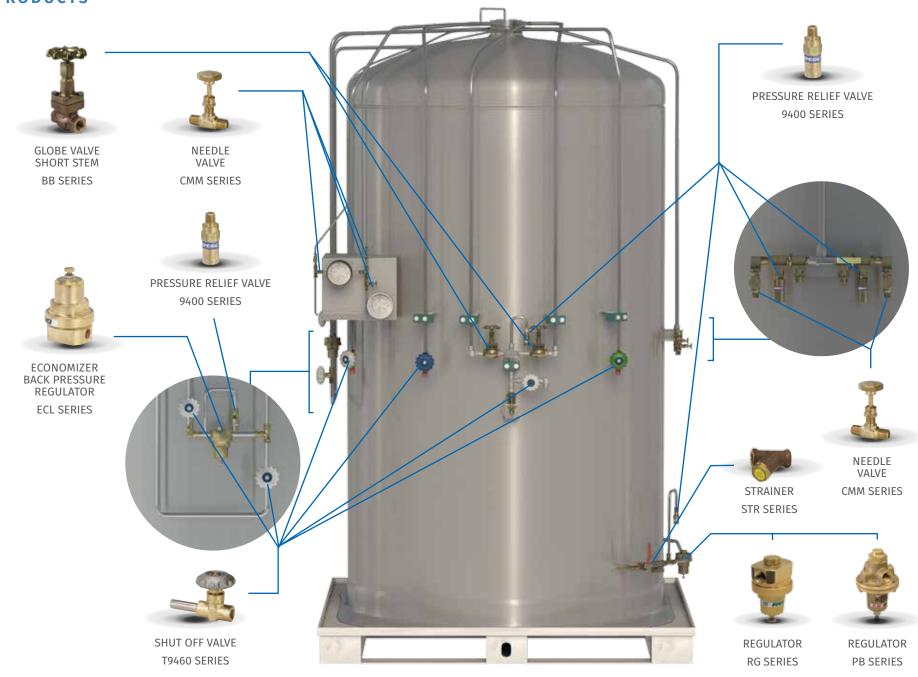
VENT / FULL TRYCOCK VALVE

LIQUID USE VALVE

HOSE DRAIN VALVE



REGO MICROBULK TANK PRODUCTS



Liquid cylinders

We do not freeze under pressure

Cylinders can take a beating in transport and everyday use. RegO valves are the most widely used in the industry, and deliver a pressuresealed barrier to avoid freeze-up and maintain constant flow. The robust design prevents maintenance requirements and avoids downtime, while safeguarding against overtorquing for long-lasting operation, with lower operational costs.

Rated for liquid oxygen service per CGA G-4.1.

PRESSURE BUILDING VALVE

LIQUID USE VALVE -

ECONOMIZER/ PRESSURE BUILDING REGULATOR

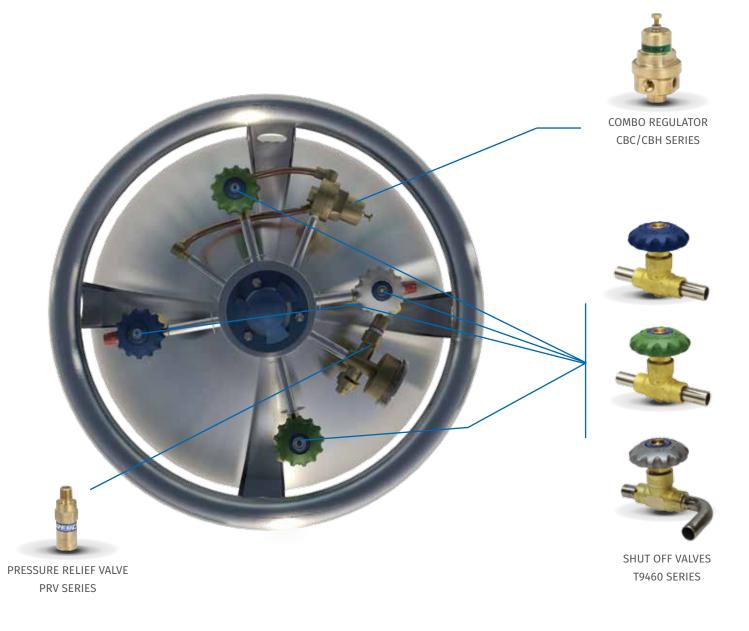
VENT VALVE

PRESSURE RELIEF VALVE

GAS USE VALVE



REGO LIQUID CYLINDER PRODUCTS





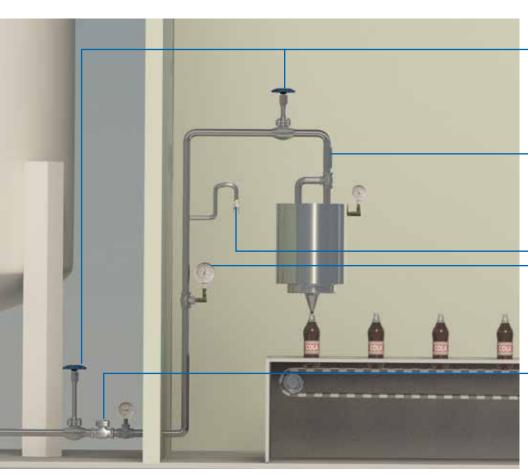
Liquid cryogenic delivery systems

The key to fast freezing and fresher foods

Chilling, freezing, preservation and carbonation are just some of the ways cryogenic gases help preserve and transport foods and beverages. RegO flow control products are constructed for superior performance in demanding manufacturing environments.



NITROGEN INJECTION SYSTEMS FOR FOOD PRESERVATION AND FAST FREEZING





CHECK VALVE CG SERIES



STAINLESS STEEL **GLOBE VALVE** SK SERIES



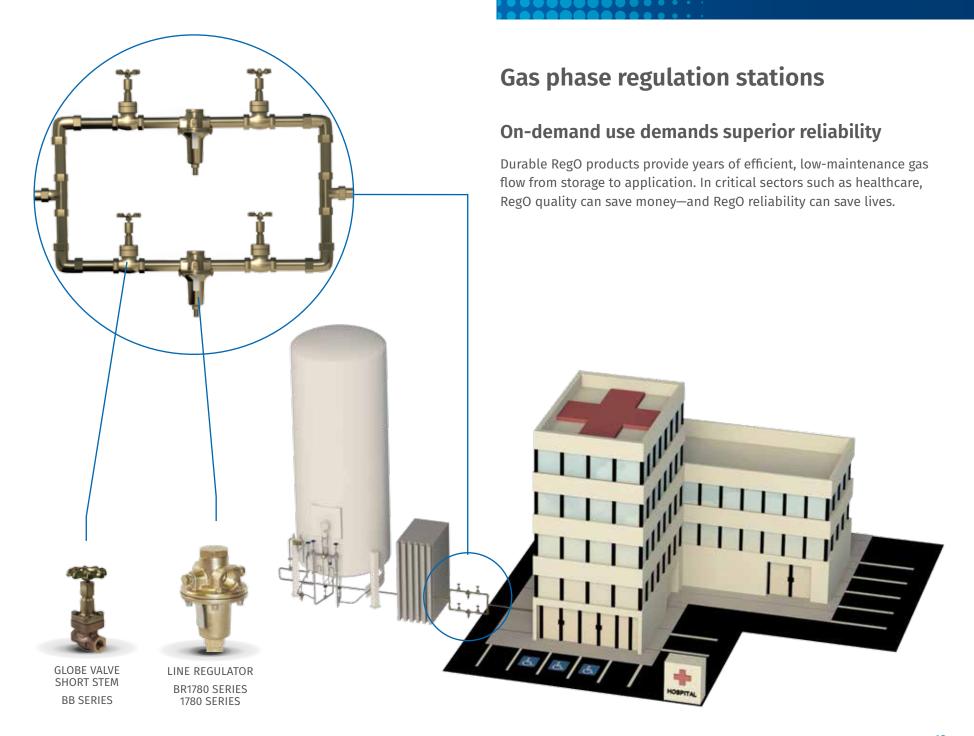
STEEL SWING CHECK VALVE 886 SERIES



PRESSURE GAUGE **15578 SERIES**



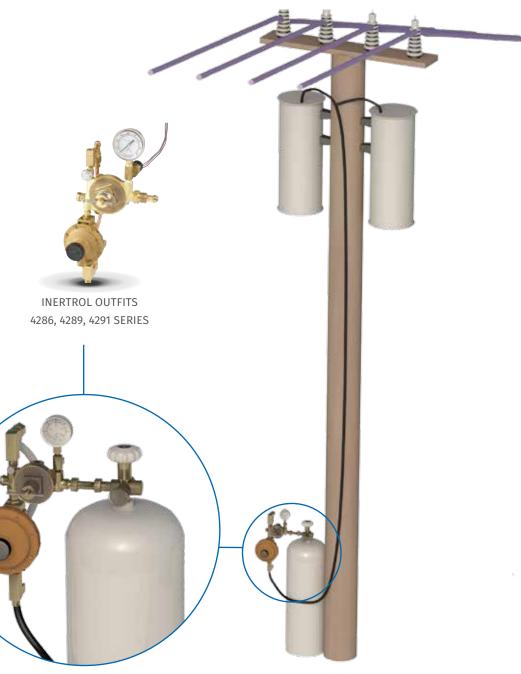
PRESSURE RELIEF VALVE 9400 SERIES

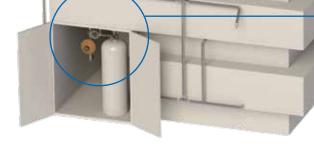


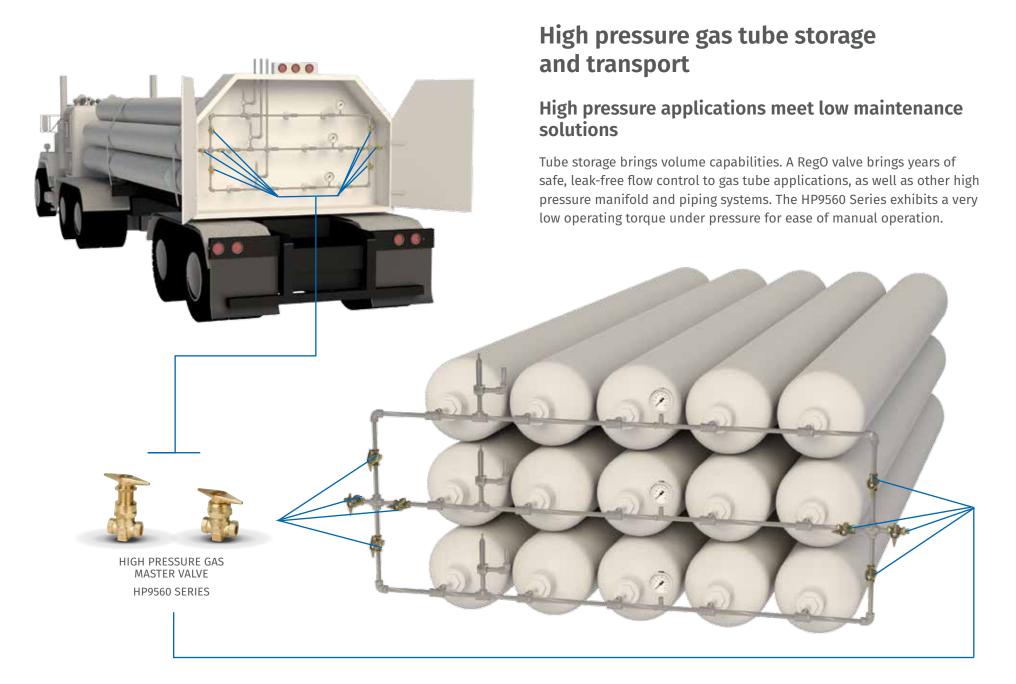
Electric transformer nitrogen delivery systems

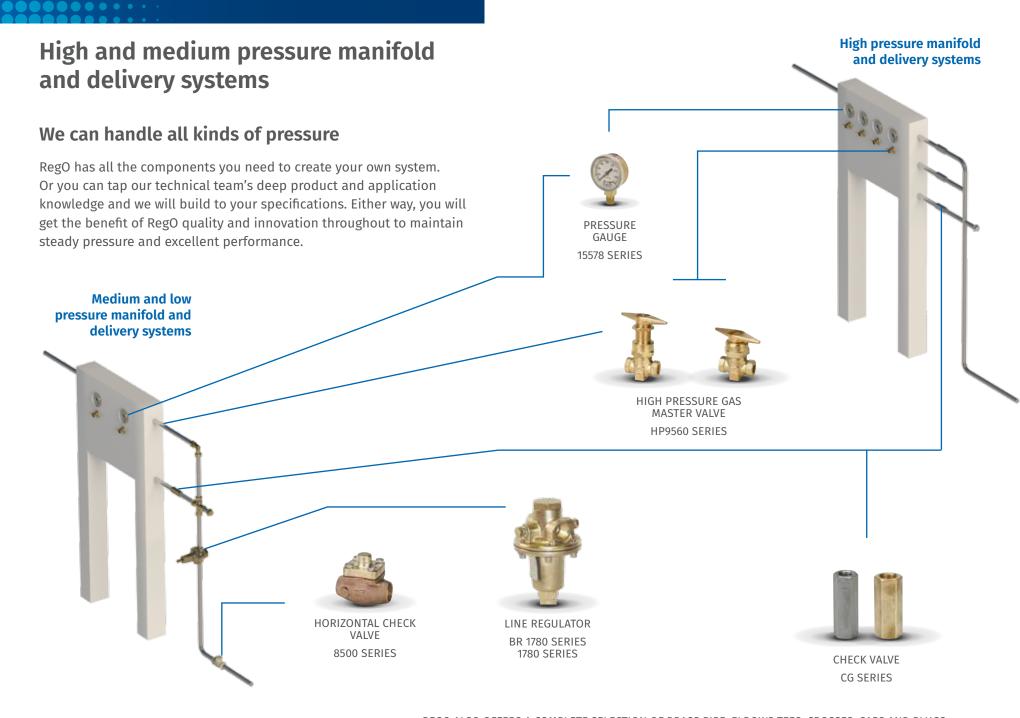
Keep the power flowing with RegO

RegO Inertrol™ systems deliver the constant supply of nitrogen needed to provide an inert gas seal in transformer applications, and prevent oxidation and humidity in the transformer oil—extending the lifetime of the unit. Built to withstand the elements and to safely adjust for changes in temperature, RegO systems can be integrated to trigger alerts for unexpected changes in pressure.

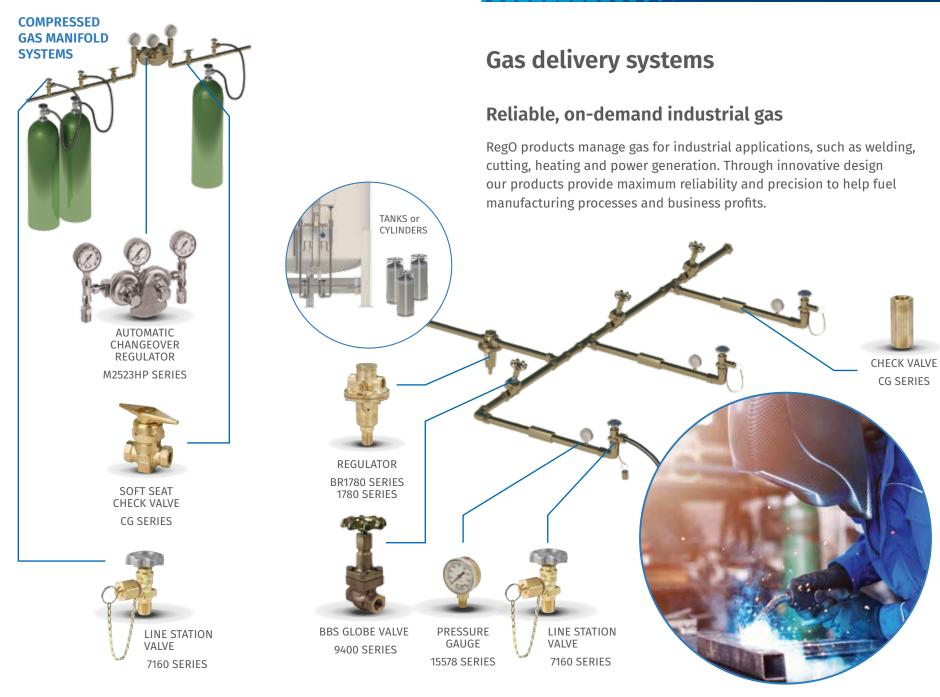








REGO ALSO OFFERS A COMPLETE SELECTION OF BRASS PIPE, ELBOWS TEES, CROSSES, CAPS AND PLUGS.

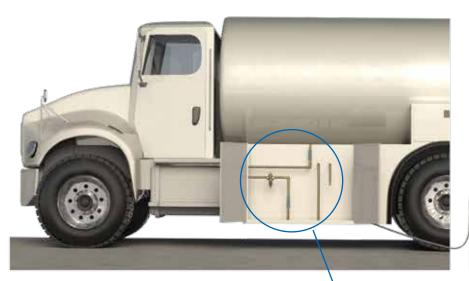


REGO ALSO OFFERS A COMPLETE SELECTION OF BRASS PIPE, ELBOWS TEES, CROSSES, CAPS AND PLUGS.

Carbon dioxide delivery systems

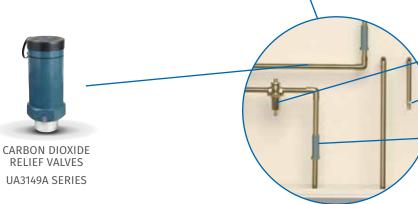
We bring the "fizz" without the fuss

From the tank truck to the soda fountain, RegO products bring reliable, cost-effective carbon dioxide delivery—refill after refill.





SHUT OFF VALVE





ASME RELIEF VALVE C-19434B SERIES



LINE REGULATOR **BR1780 SERIES** 1780 SERIES

CHECK VALVE

CG SERIES



PED Module D D1
VdTÜV Cryo Safety Valve
VdTÜV Cryo Shut Off Valve
PED Module B Safety Valves
TPED Cert AR NR PRV
TPED Cert Cryo Shut Off
SK Series TUV Cert 0036-068-17



OA7770_50346789NTY
CRN OC15296_502346789NTY
OC7770_5023456789NTY
OG7770_502346789NTY
OH7770_5046789NTY
OC8040_502346789NTY



ISO 9001:2008



UV & NB



Conflict-Free Sourcing
Initiative



Manufacturer License



Product certifications

World-class quality—but do not just take our word for it.

RegO builds products that last. Our durable materials, proven designs, and rigorous testing, all add up to products designed for years of safe operation under hazardous conditions. With standards like these, it is no wonder that RegO quality is recognized the world over.





USA: Headquarters	Europe	Latin America	Asia
Elon, NC USA	Gladenbach, Germany	Santa Catarina, Mexico	Shanghai, China, 200131 Phone: +86 21 5046 2183, +86 21 5046 2012 Email: david.wang@rego-asia.com
Phone: +1 336 449 7707	Phone: +49 6462 9147 10	Phone: +52 81 8032 5250	
Email:ecii@regoproducts.com	Email: info@rego-europe.de	Email: volalde@regoproducts.com.mx	



Quality materials, innovative, long-lasting design and operational excellence, are built into every product we manufacture. That is how we can offer a 10-year product warranty—double that of other companies.



Designed, manufactured and 100% tested in the USA. Our four state-of-the-art facilities build the products that are most critical to your application.

For technical assistance contact: support@regoproducts.com

regoproducts.com | rego-europe.de

© 2018 RegO. All rights reserved. Unauthorized use will be prosecuted.

LIT # 11.2017_A