QUALITY / RELIABILITY / EFFICIENCY

OPW
CLEAN ENERGY SOLUTIONS
a DOVER company

REGO

CG-500 CATALOG

CRYOGENIC & INDUSTRIAL GAS EQUIPMENT

- Cryogenic Cylinder Equipment
- Relief Valves
- Globe Valves
- Gate Valves
- Check Valves
- Regulators
- Master High Pressure Valves
- Adapters, Nipples, Pipe & Miscellaneous
- Repair Kits

Foreword

This catalog briefly describes the RegO® Industrial Gas and Cryogenic Equipment. As a result of condensing information in this catalog, some highly technical and special application material has been omitted. Proper application, installation and maintenance of the product is essential. Buyers should obtain further information if there are any doubts or questions. All information contained in this catalog is subject to change by RegO without notice. Additional product information is available from RegO or authorized product distributors. Illustrations and drawings of individual products are representative of “product groups” and all products within a product group are similar in construction.

Warning

Never use any product on oxygen service if another gas has been previously used on the product. All RegO® Products are mechanical devices that will eventually become inoperative due to wear, corrosion and aging of components made of materials such as rubber. The environment and conditions of use will determine the safe service life of these products. Periodic inspection and maintenance are essential to avoid serious injury and property damage.

Many RegO® products are manufactured for storage, transport, transfer and use of toxic flammable and dangerous liquids and gases. Such substances should be handled by experienced and trained personnel only, using accepted governmental and industrial safety procedures.

Materials

RegO may make suggestions for a material to use with a specific media. These suggestions will be based on technical compatibility resources through associations and manufacturers. RegO does not guarantee the material to be compatible with the specific media – this is the responsibility of the user. Users must test under their own operating conditions to determine the suitability of any material in a particular application.

Oxygen Service

RegO provides specified product cleaned in accordance with the intermediate level of ASTMG93 and CGA G-4.1 which assures removal of visible particles and combustible residues. System designers must verify the compatibility of the materials used in this product before installation and operation. Specifications of materials for oxygen service is the USER’S RESPONSIBILITY. If there is any doubt consult an expert.

Notice

Installation, usage and maintenance of all RegO® products must be in compliance with all RegO® instructions as well as requirements and provisions of NFPA 51, CGA, ASME, DOT, ANSI and all applicable federal, state, provincial and local standards, codes, regulations and laws.

Inspection and maintenance on a periodic basis is essential and should be performed only by qualified personnel.

Be sure all instructions are read and understood before installation, operation and service.

For Sales in California:

WARNING: This product 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 **www.P65Warnings.ca.gov**

Limited Warranty and Limitation of Liability

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REGO 10 YEAR WARRANTY

LIMITED 10 YEAR WARRANTY AND LIMITATION OF LIABILITY

NOTICE

Failure to install parts exactly as described in the instructions could result in a product that will not perform satisfactorily. Even if parts are correctly installed, the product might fail to perform satisfactorily if other parts are worn, corroded or dirty. Improper repair can cause leaks and malfunction, which could result in bodily injury and property damage. Any such use or installation of parts must ONLY be done by experienced and trained personnel using accepted governmental and industrial safety procedures.

RegO® assumes no responsibility or liability for performance of products repaired in the field. It must be clearly understood that the person or organization repairing the product assumes total responsibility for the performance of the product.

WARNING

All RegO® products are mechanical devices that will eventually become inoperative due to wear, corrosion and aging of components made of materials such as rubber, plastic, etc. The environment and conditions of use will determine the safe service life of these products. Periodic inspection and maintenance are essential to avoid serious injury and property damage. Many RegO® products are manufactured components which are incorporated by others on or in other products or systems used for storage, transport, transfer and otherwise for use of toxic, flammable and dangerous liquids and gases. Such substances must be handled by experienced and trained personnel only, using accepted governmental and industrial safety procedures.

LIMITED 10 YEAR WARRANTY

RegO® warrants products and repair kits manufactured by it to be free from defects in materials and workmanship under normal use and service for a period of 10 years from the date of manufacture. If within 30 days after buyer's discovery of what buyer believes is a defect, buyer must notify RegO® thereof in writing and ship (at buyer's expense) the product to RegO® at 100 RegO Drive, Elon, NC 27244. RegO®, at it's option, and within 45 days, will repair, replace F.O.B. point of manufacture, or refund the purchase price of that part or product found by it to be defective. Failure of buyer to give such written notice and return the product within 30 days shall be deemed an absolute and unconditional waiver of any and all claims of buyer arising out of such defect.

This limited warranty does not extend to any product or part that is not installed and used continuously after installation in accordance with RegO®'s printed instructions, all applicable state and local regulations, and all applicable national standards, such as those promulgated by NFPA, DOT and ANSI. This limited warranty does not extend to any product or part that has been damaged by accident, misuse, abuse, failure to maintain or neglect, nor does it extend to any product or part which has been modified, altered, disassembled or repaired in the field. This limited warranty does not cover any cosmetic issues, such as scratches, dents, marring, fading of colors or discoloration.

EXCEPT AS EXPRESSLY SET FORTH ABOVE, AND SUBJECT TO THE LIMITATION OF LIABILITY BELOW, REGO® MAKES NO OTHER WARRANTY, AND EXPRESSLY DISCLAIMS, ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO ITS PRODUCTS AND PARTS, WHETHER USED ALONE OR IN A COMBINATION WITH OTHERS. REGO® DISCLAIMS ALL WARRANTIES NOT STATED HEREIN.

This Limited Warranty is given by Engineered Controls International LLC, of 100 RegO Drive Elon, NC 27244 USA, (336) 449-7707.

LIMITATION OF LIABILITY

RegO® total liability for any and all losses and damages arising out of any cause whatsoever shall in no event exceed the purchase price of the products or parts in respect of which such a cause arises, whether such cause be based on theories of contract, negligence, strict liability, tort or otherwise. RegO® shall not be liable for incidental, consequential or punitive damages or other losses. RegO® shall not be liable for, and buyer assumes liability for all personal injury and property damage connected with the handling, transportation, possession, further manufacture, other use or resale of products, whether used alone or in combination with any other products or material. From time to time buyers might call to ask RegO® for technical advice based upon limited facts disclosed to RegO®. If RegO® furnishes technical advice to buyer, whether or not at buyer's request, with respect to application, further manufacture or other use of the products and parts, RegO® shall not be liable for such technical advice provided to buyer by any third party and buyer assumes all risk of such advise and the results thereof.

NOTE: Some states do not allow the exclusion or limitation of incidental, consequential or punitive damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights that vary from state to state. The portions of this limited warranty and limitation of liability shall be considered severable and all portions which are not disallowed by applicable law shall remain in full force and effect.

The benefits given by the Limited Warranty above are in addition to any other rights and remedies to which you may be entitled by law.

NOTE TO AUSTRALIAN PURCHASERS: The following applies if you purchased this product as a "consumer" as defined in the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Information regarding how to return a product and make a claim under this Limited Warranty is set forth below.

Nothing in this document purports to modify or exclude your rights if any under the Australian Consumer Law, or other laws which cannot be lawfully be modified or excluded.

NOTICE TO USERS OF PRODUCTS

The Limited Warranty stated above is a factory warranty to the first purchasers of RegO® products. Since most users have purchased these products from RegO® distributors, to make a claim under this Limited Warranty the user must, within 30 days after the user's discovery of what the user believes is a defect, notify in writing and return the product (at the user's expense) to the distributor from whom he purchased the product or parts. The distributor may or may not at the distributor's option, choose to submit the product or parts to RegO®, pursuant to its Limited Warranty. Failure by buyer to give such written notice and return the product within 30 days shall be deemed an absolute and unconditional waiver of buyer's claim for such defects. Acceptance of any alleged defective product or parts by RegO® distributor for replacement or repairs under terms of RegO® Limited Warranty in no way obligates RegO® to the terms of the above warranty. Because of a policy of continuous product improvement, RegO® reserves the right to change designs, materials or specifications without notice.

EUROPEAN PED/TPED CERTIFICATION				
The following product categories have received PED/TPED certification by the notified body Tüv, #0036				
Valve number	**Maximum Connection Size**		**DN**	**PED Category**
	Inches	**mm**		
9560 series	1”	25	25	SEP
9500 series	1”	25	25	SEP
BK8400 series	2”	51	50	II
BK9400 series	2”	51	50	II
T9450 series	½”	13	15	TPED
T9460 series	½”	13	15	TPED
1682 series	¼”	6	8	SEP
BR-&1780 series	1”	25	25	SEP
RG series	¼”	6	8	SEP
ECL series	¼”	6	8	SEP
CBE504 Series	½”	13	15	SEP
PRV9430 & PRV19430 series	½”	13	15	IV & TPED
SS9430 & PRV29430 series	½”	13	15	IV & TPED
BK008400 Series	2”	51	50	II
BK009400 Series	2”	51	50	II
BB9400 Series	2”	51	50	II
SKA9400 Series	2”	51	50	II & TPED
SKS9400 Series	2”	51	50	II & TPED
SKM9400 Series	2”	51	50	II & TPED
SKL9400 Series	2”	51	50	II & TPED
Goddard 110/210 Series	4”	102	100	Cat II (6” Class 300 is Cat III)
Goddard 886 / 886M Series	1 ½”	38	40	II
Goddard 840 / 846M Series	2”	51	50	II
Goddard 302 / 306 / 312 / 322 / 326 Series	3”	76	80	II
Goddard 202X / 206 / 222 / 222X / 226 / 226X / 231 / 232 Series	3”	76	80	II
AR4100/5100 Series	1½”	38	40	IV & TPED
DR6108	1”	25	25	SEP
DR6112	1 ½”	38	40	II
DR6113	1 ½”	38	40	II

PED	Pressure Equipment Directive
SEP	Sound Engineering Practice
II	Module A1 Internal Production Control with Monitoring of Final Assessment
	Module D1 QA for Production, Final Inspection and Testing
	Module E1 QA for Final Inspection and Testing
TPED	Transportable Pressure Equipment Directive
IV	Module B EC Type-Examination
	Module D Quality Assurance (QA) for Production, Final Inspection and Testing
	Module F Product Verification
	Module G Unit Verification
	Module H1 Full QA with Design Examination and Monitoring of Final Assessment

You don't thrive for more than 100 years because you're 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 products, RegO has always kept our customers' interests first.

Quality matters. Industrial gas applications have no room for leaks. That's why we design and manufacture to rigid industry standards and, test 100% of our products, and can offer a 10-year warranty. RegO products work better and last longer.

Innovative products, processes and people. We invest in technology and training to deliver flow control products designed to reduce 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're here to help in any way, every day.

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

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

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.

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.

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.

www.regoproducts.com/cryo/

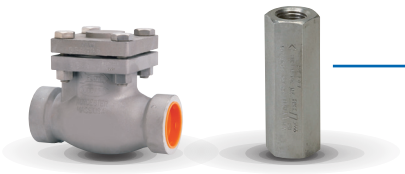
GLOBE VALVES

210 SERIES SK SERIES 232 SERIES

GATE VALVES

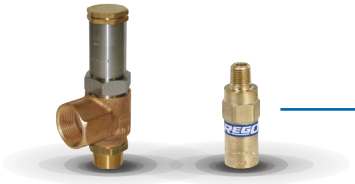
110 SERIES

CHECK VALVES

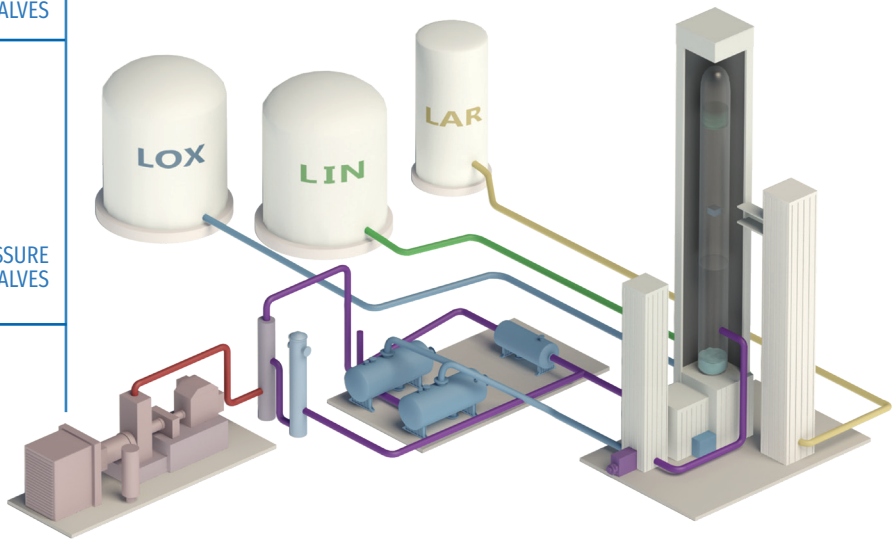


886 SERIES CG SERIES

PRESSURE RELIEF VALVES



AR SERIES 9400 SERIES

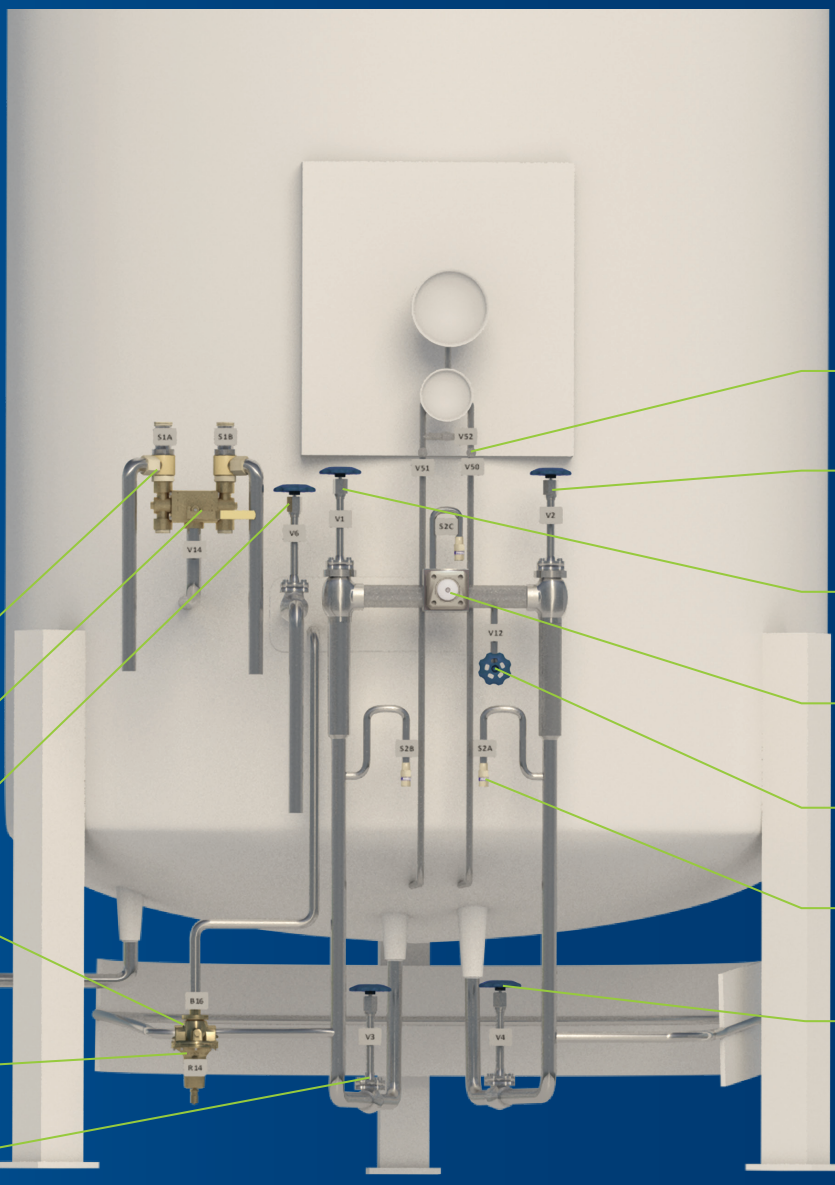


APPLICATION

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

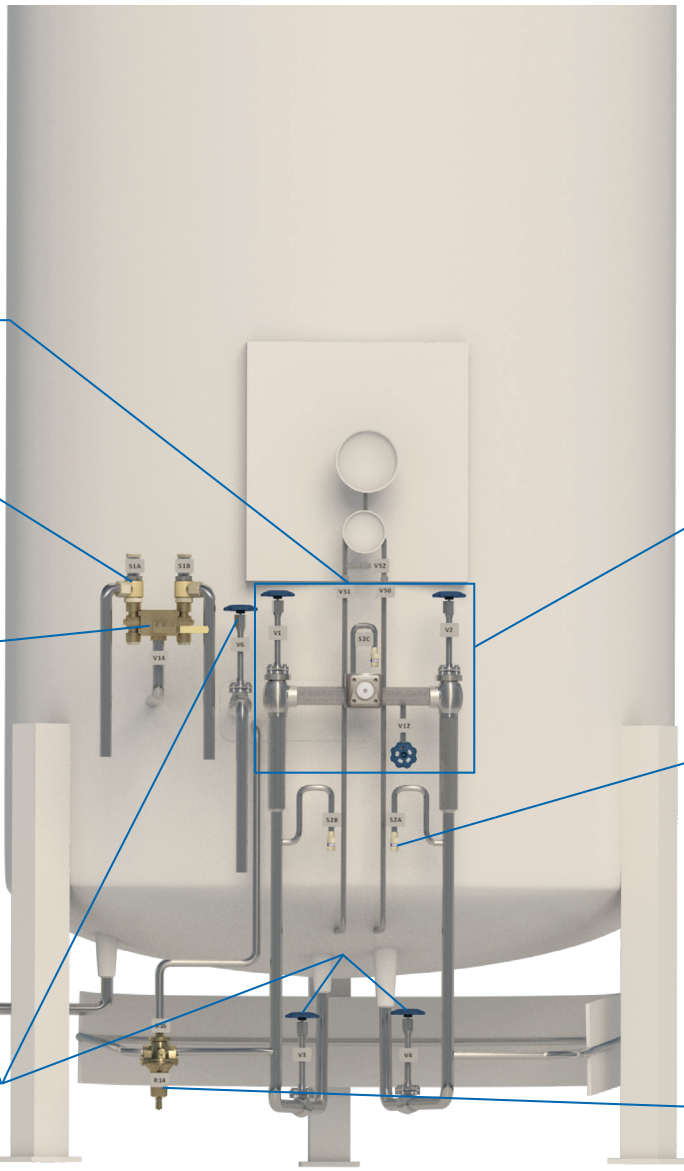
CHECK VALVE

PURGE AND VENT VALVE

PRESSURE RELIEF VALVE

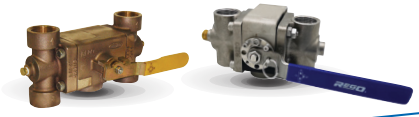
PRESSURE BUILDING VALVE

REGO BULK TANK PRODUCTS



NEEDLE VALVE
CMM SERIES

ANGLED PRESSURE RELIEF VALVE
AR SERIES



DIVERTER VALVE
DR & DV SERIES

GLOBE VALVE
SK SERIES

GLOBE VALVE
BB SERIES

GLOBE VALVE
SKB SERIES

FILL MANIFOLD ASSEMBLY
CSM SERIES

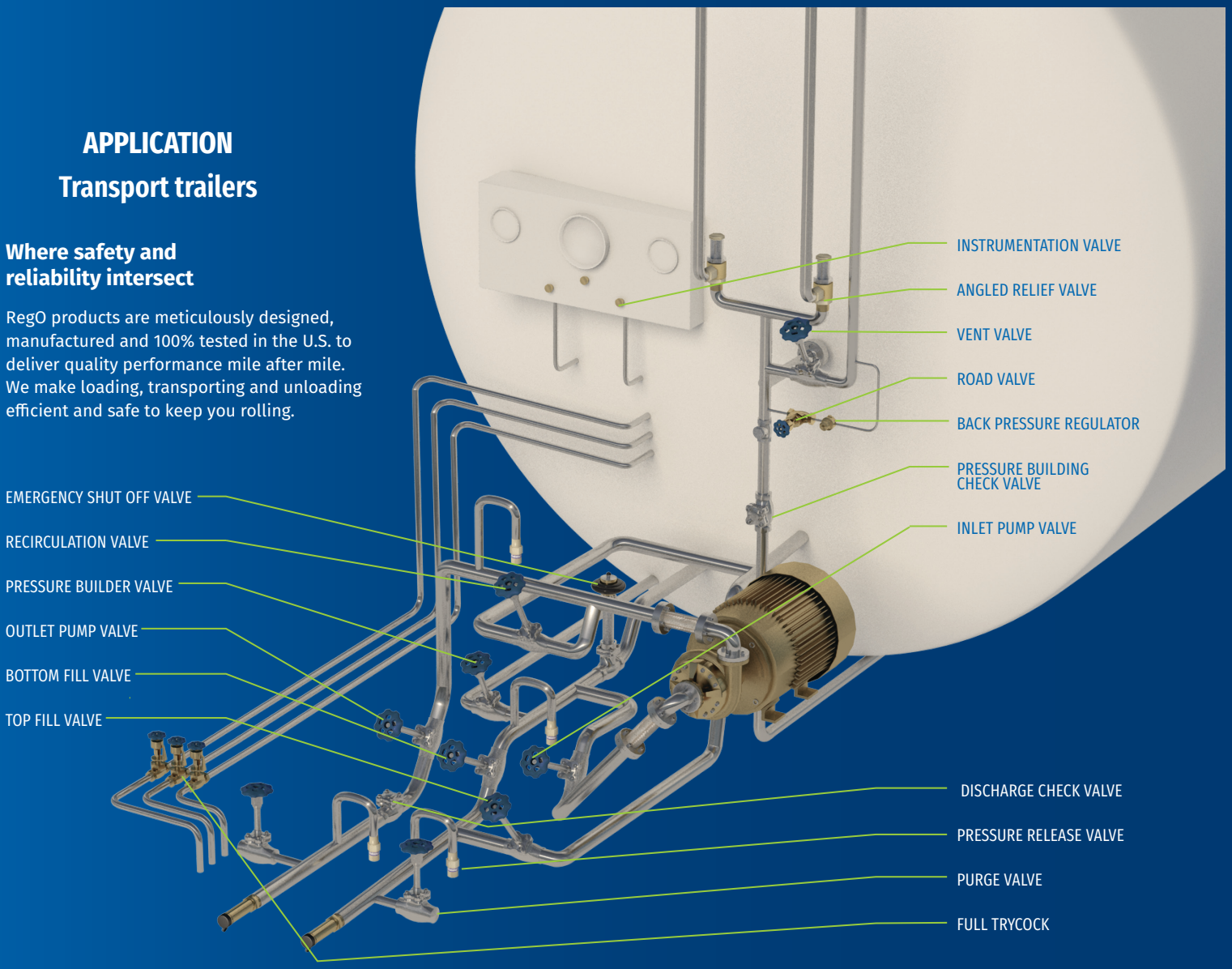
PRESSURE RELIEF VALVE
9400 SERIES

COMBO REGULATOR
PB504 SERIES

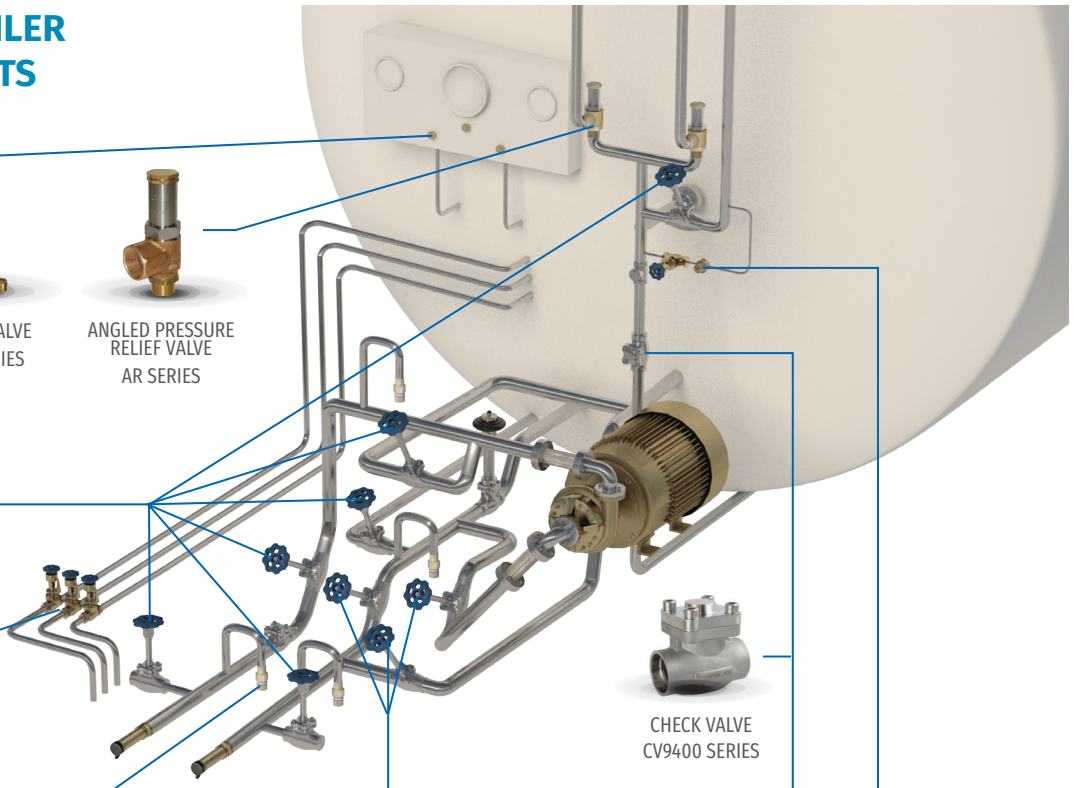
APPLICATION
Transport trailers

Where safety and reliability intersect

RegO products are meticulously designed, manufactured and 100% tested in the U.S. to deliver quality performance mile after mile. We make loading, transporting and unloading efficient and safe to keep you rolling.



REGO TRAILER PRODUCTS



NEEDLE VALVE
CMM SERIES

ANGLED PRESSURE RELIEF VALVE
AR SERIES

GLOBE VALVE
SK SERIES

GLOBE VALVE
BB SERIES

GLOBE VALVE
SKB SERIES

CHECK VALVE
CV9400 SERIES

GLOBE VALVE SHORT STEM
SKS SERIES

GLOBE VALVE SHORT STEM
BBS SERIES

GLOBE VALVE SHORT STEM
SKB SERIES

CHECK VALVE
840 SERIES

PRESSURE RELIEF VALVE
PRV SERIES

1330-1340
SS SERIES

GATE VALVE
110 SERIES

GATE VALVE
322 SERIES

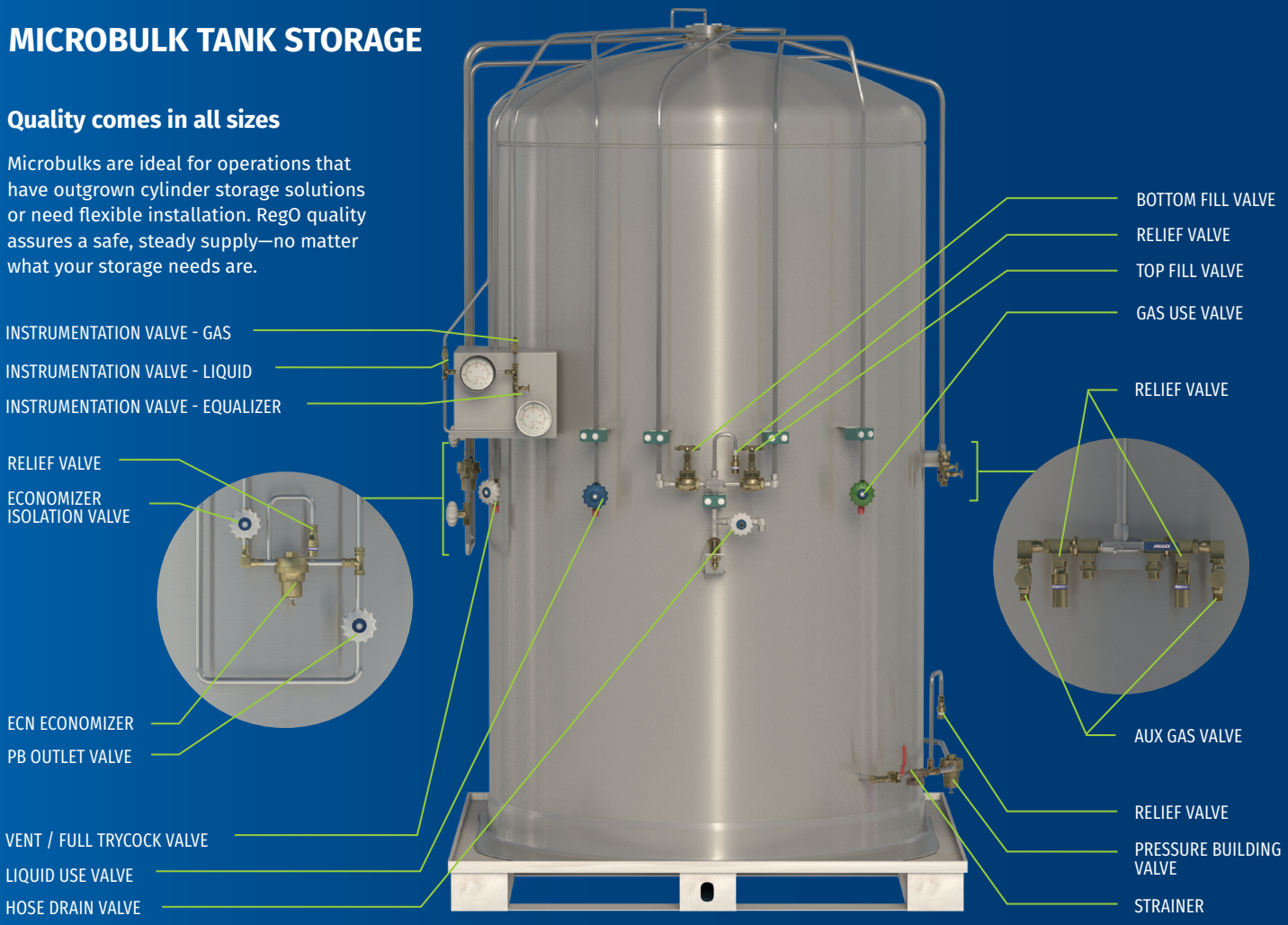
CHECK VALVE
886 SERIES

ECONOMIZER BACK PRESSURE REGULATOR
ECL SERIES

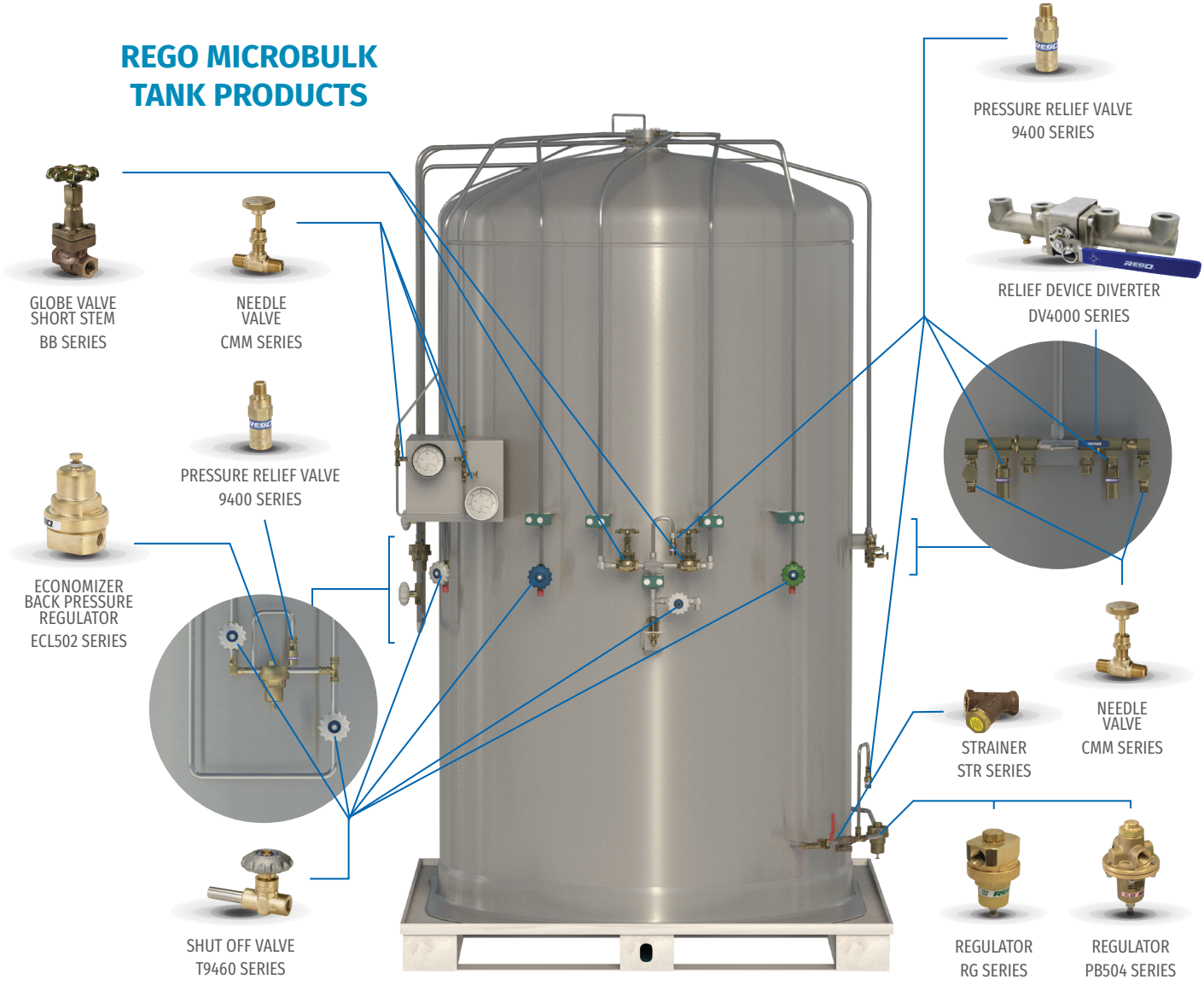
MICROBULK TANK STORAGE

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.



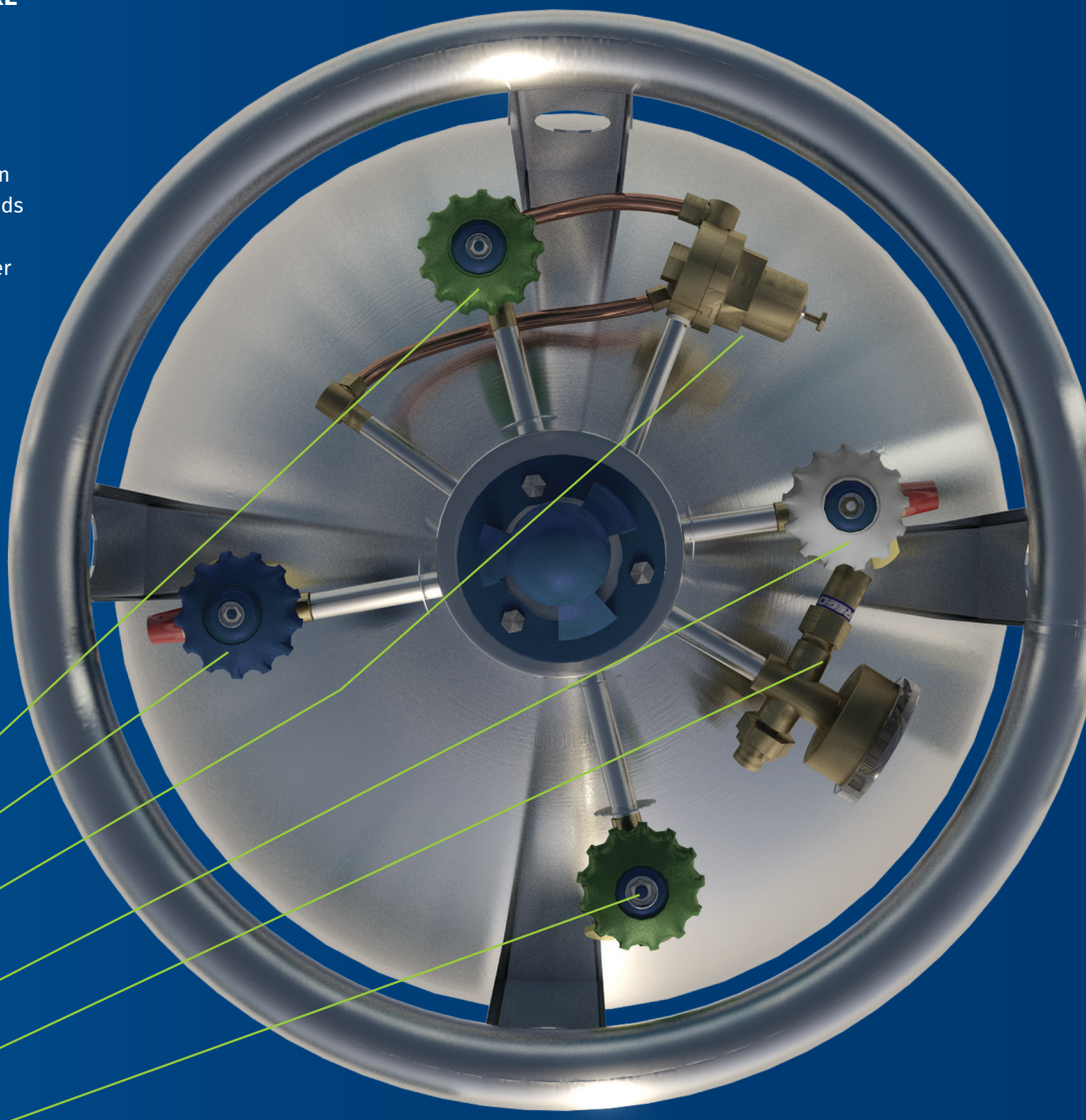
REGO MICROBULK TANK PRODUCTS



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 pressure-sealed barrier to avoid freeze-up and maintain constant flow. The robust design prevents maintenance requirements and avoids downtime, while safeguarding against over-torquing for long-lasting operation, with lower operational costs.
Rated for liquid oxygen service per CGA G-4.1.



PRESSURE BUILDING VALVE

LIQUID USE VALVE

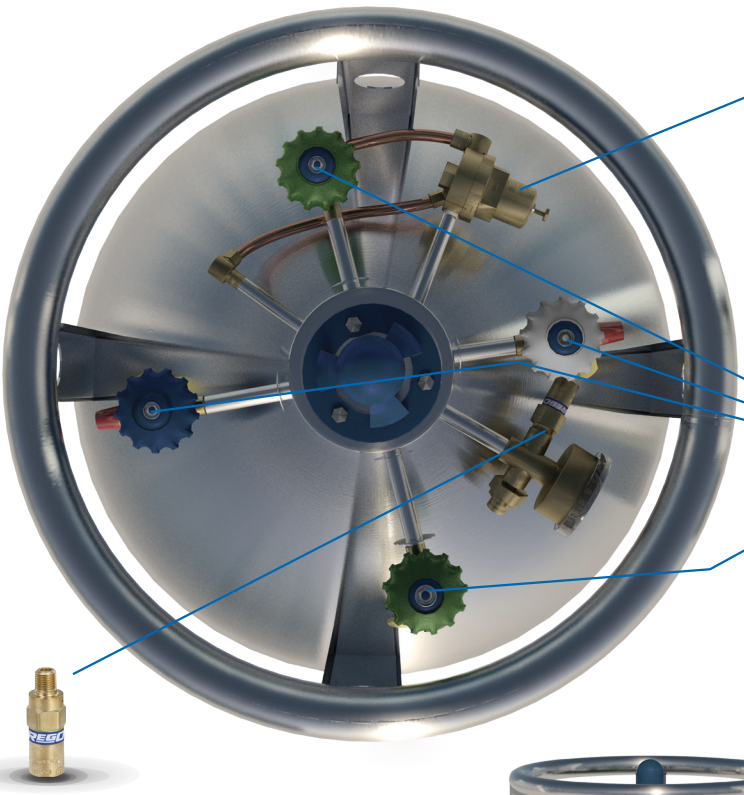
ECONOMIZER/ PRESSURE BUILDING REGULATOR

VENT VALVE

PRESSURE RELIEF VALVE

GAS USE VALVE

REGO LIQUID CYLINDER PRODUCTS



COMBO REGULATOR
CBC502/CBH502 SERIES

SHUT OFF VALVES
T9460 SERIES

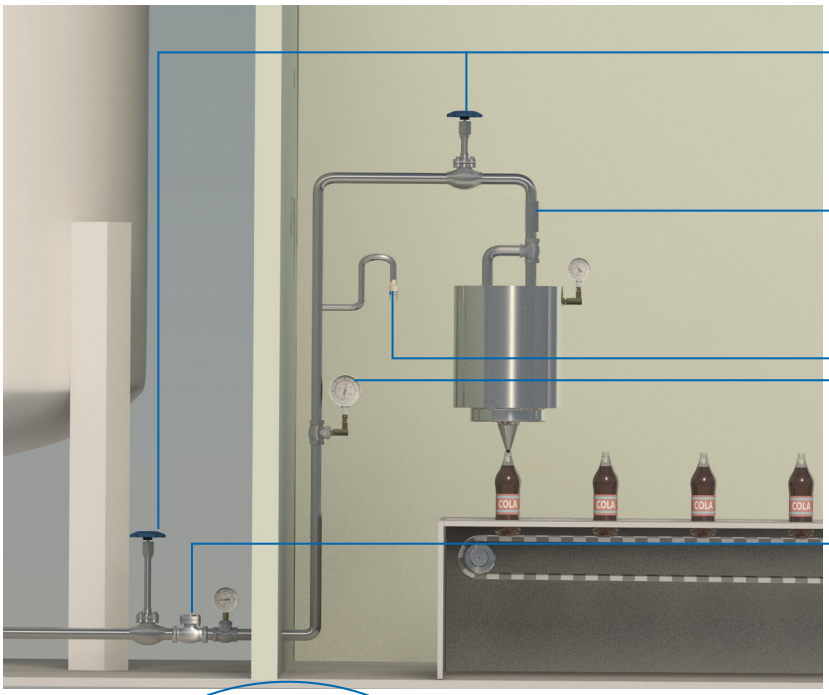
PRESSURE RELIEF VALVE
PRV SERIES

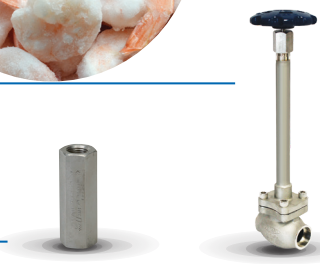
Liquid Cryogenic Delivery Systems

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 INJECTI
SYSTEMS FOR FOO
PRESERVATION AN
FAST FREEZING





CHECK VALVE
CG SERIES

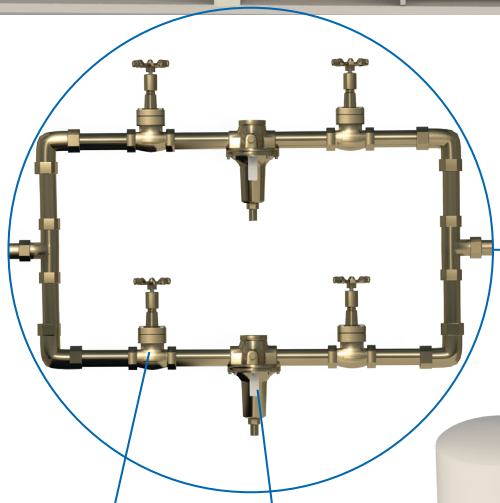
STAINLESS STEEL
GLOBE VALVE
SK SERIES

CHECK VALVE
CV9400 SERIES

STEEL SWING
CHECK VALVE
886 SERIES

PRESSURE GAUGE
15578 SERIES

PRESSURE RELIEF
VALVE
9400 SERIES



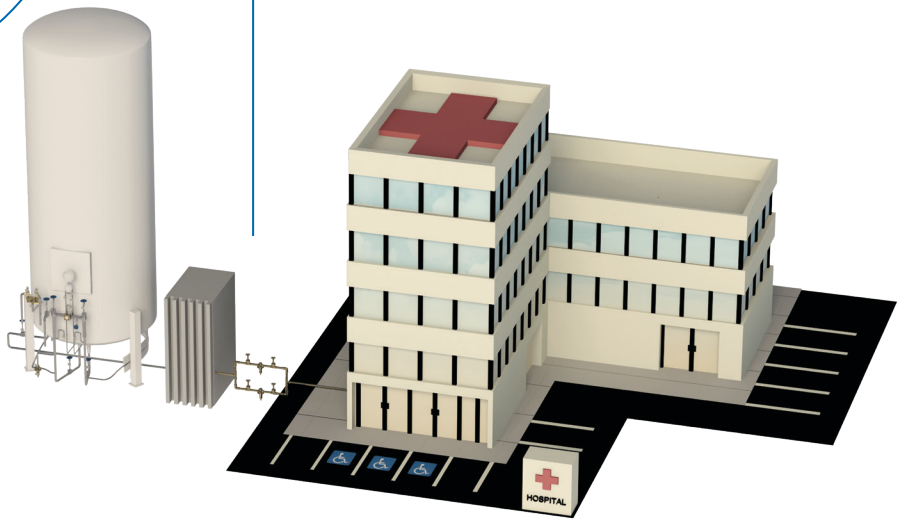
Gas Phase Regulation Stations

On-demand use demands superior reliability

Durable RegO products provide years of efficient, low-maintenance gas flow from storage to application. In critical sectors such as healthcare, RegO quality can save money—and RegO reliability can save lives.

GLOBE VALVE
SHORT STEM
BB SERIES

LINE REGULATOR
BR1780 SERIES
1780 SERIES

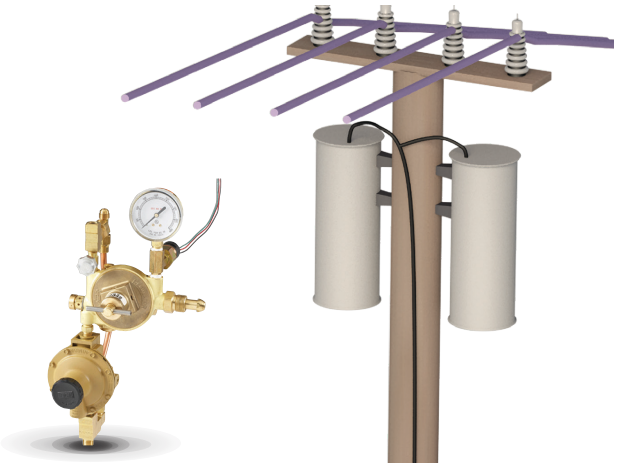


PART OF OPW a DOVER company

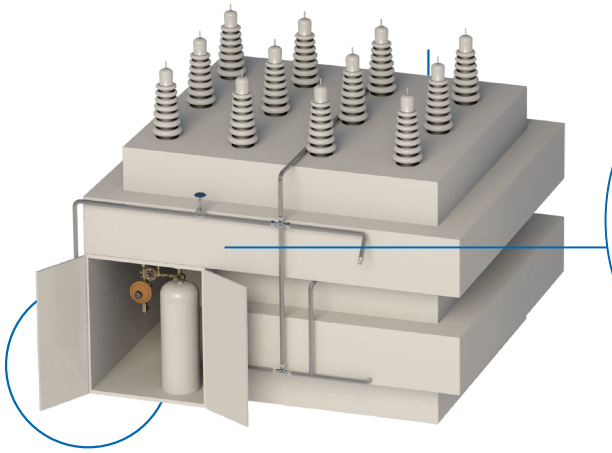
Electric Transformer Nitrogen Delivery Systems

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.



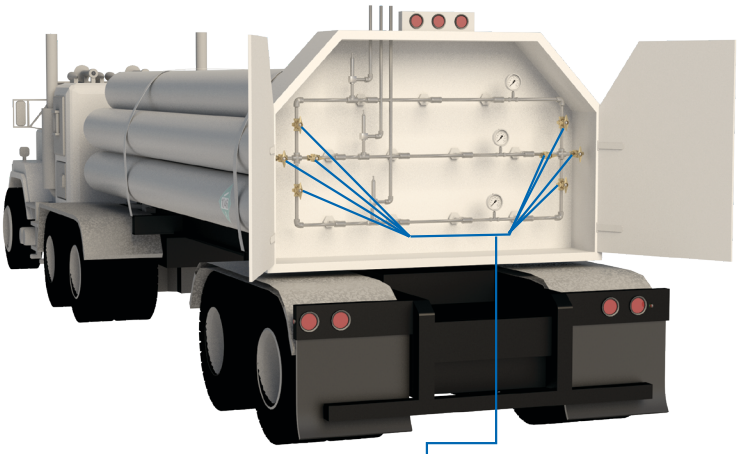
INERTROL OUTFITS
4286, 4289, 4291 SERIES



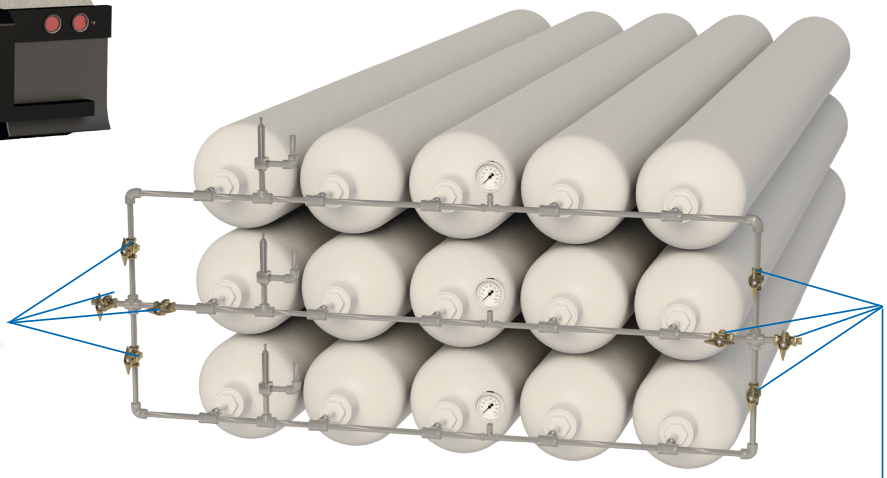
High Pressure Gas Tube Storage and Transport

High pressure applications meet low maintenance solutions

Tube storage brings volume capabilities. A RegO valve brings years of safe, leak-free flow control to gas tube applications, as well as other high pressure manifold and piping systems. The HP9560 Series exhibits a very low operating torque under pressure for ease of manual operation.



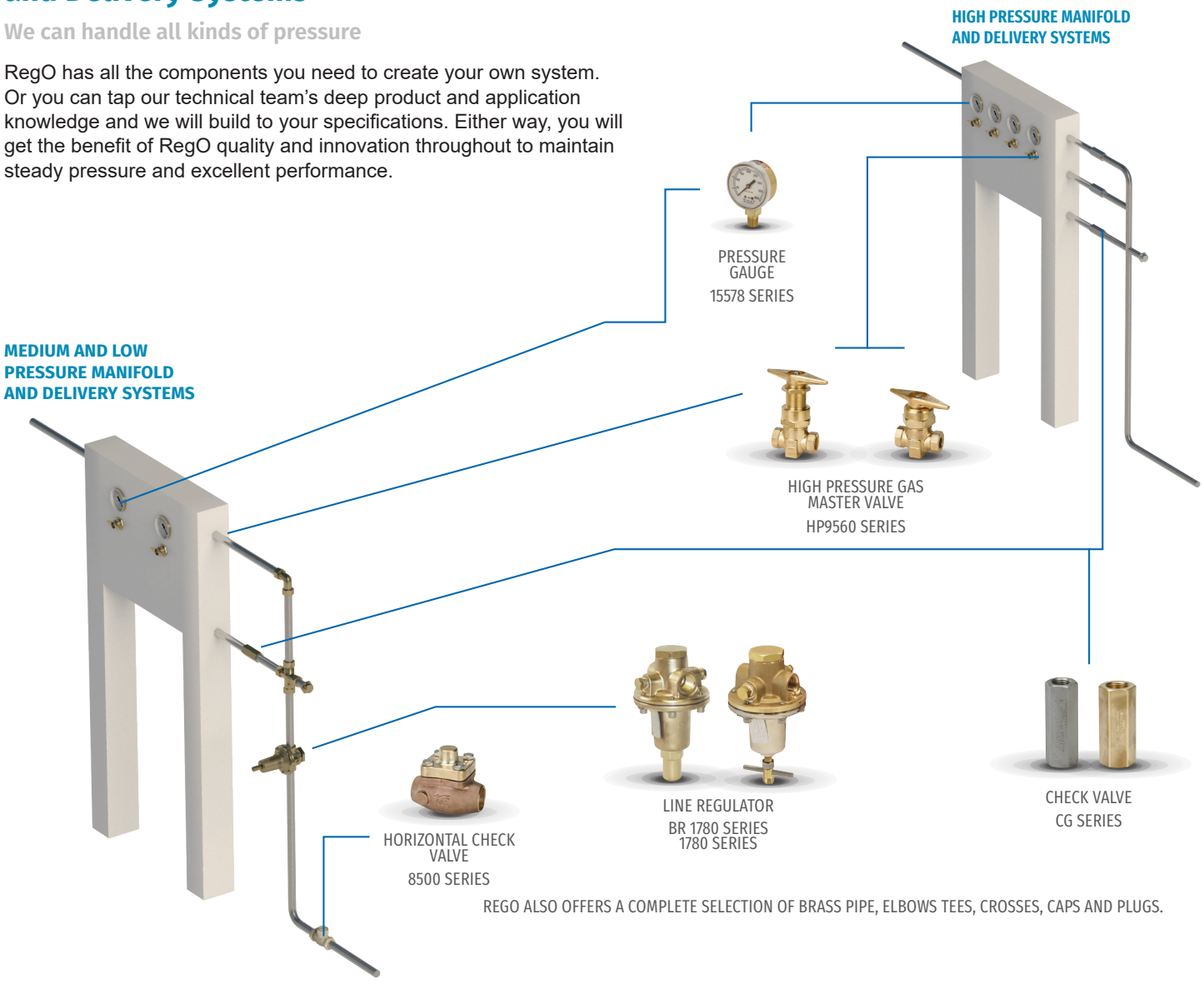
HIGH PRESSURE GAS
MASTER VALVE
HP9560 SERIES



High and Medium Pressure Manifold and Delivery Systems

We can handle all kinds of pressure

RegO has all the components you need to create your own system. Or you can tap our technical team's deep product and application knowledge and we will build to your specifications. Either way, you will get the benefit of RegO quality and innovation throughout to maintain steady pressure and excellent performance.

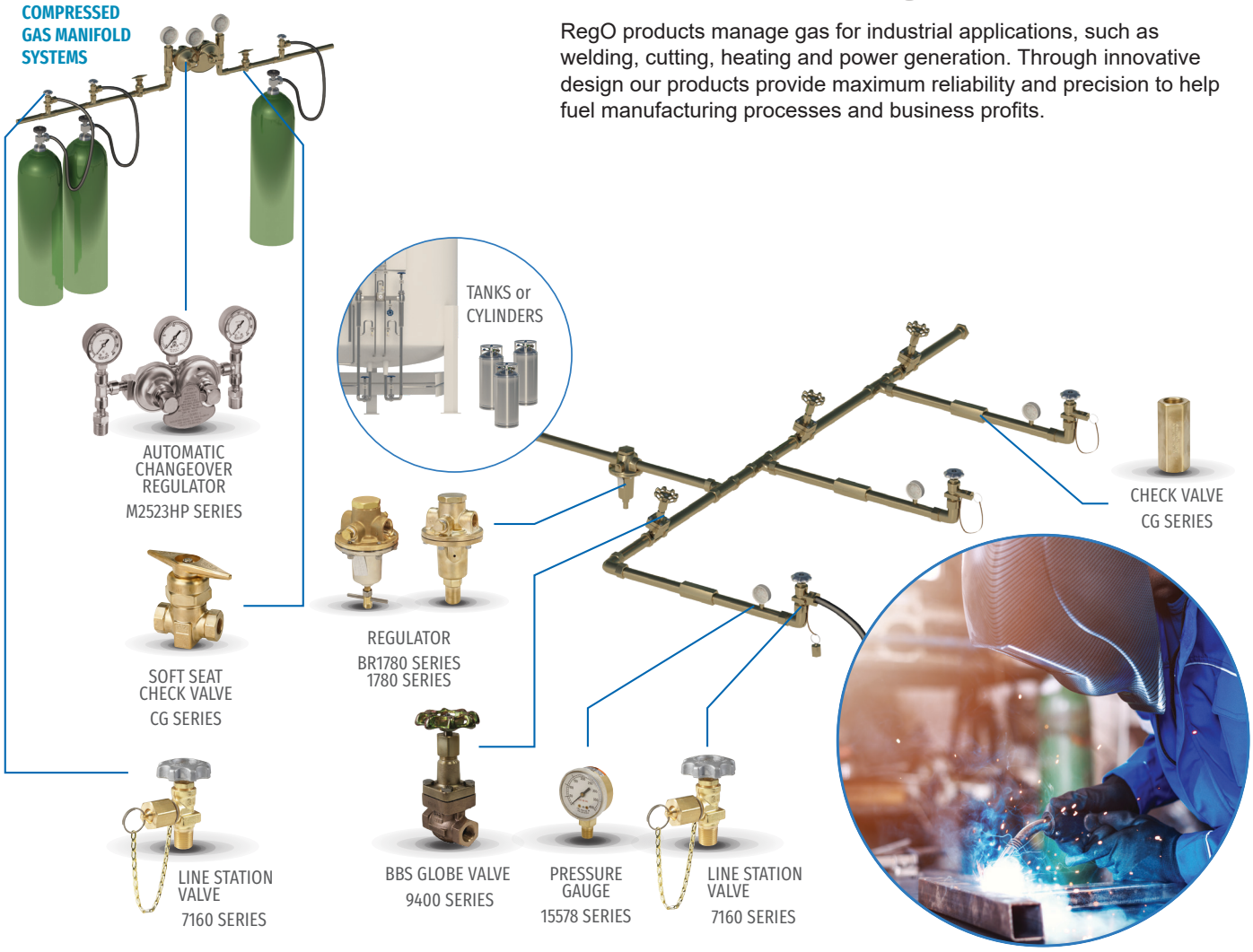


REGO ALSO OFFERS A COMPLETE SELECTION OF BRASS PIPE, ELBOWS TEES, CROSSES, CAPS AND PLUGS.

Gas Delivery Systems

Reliable, on-demand industrial gas

RegO products manage gas for industrial applications, such as welding, cutting, heating and power generation. Through innovative design our products provide maximum reliability and precision to help fuel manufacturing processes and business profits.

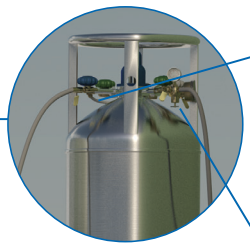


REGO ALSO OFFERS A COMPLETE SELECTION OF BRASS PIPE, ELBOWS TEES, CROSSES, CAPS AND PLUGS.

Carbon Dioxide Delivery Systems

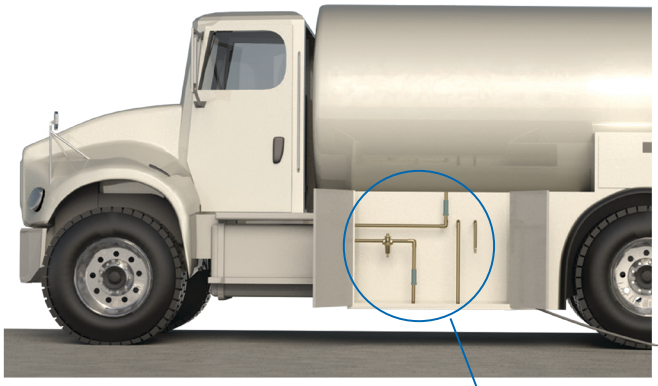
We bring the "fizz" without the fuss

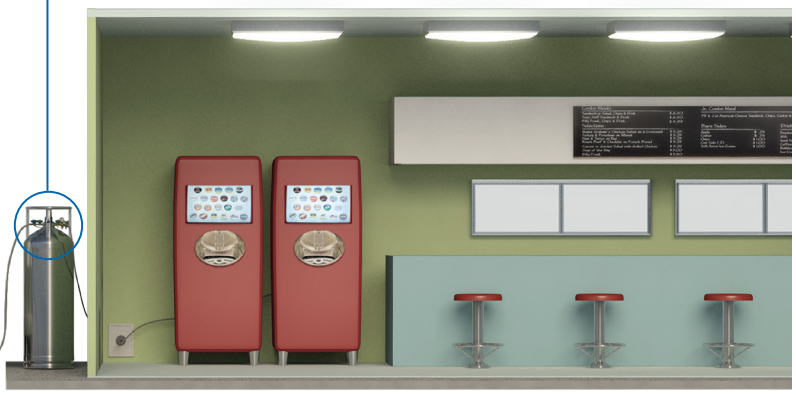
From the tank truck to the soda fountain, RegO products bring reliable, cost-effective carbon dioxide delivery - refill after refill.



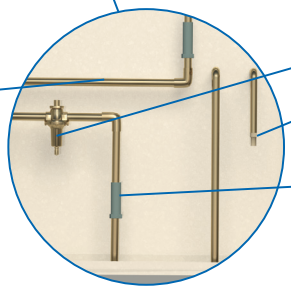
SHUT OFF VALVE
T9460 SERIES

LIQUID CYLINDER REGULATOR
FUEL GAS DELIVERY SYSTEMS
LCR SERIES





CARBON DIOXIDE
RELIEF VALVES
UA3149A SERIES



CHECK VALVE
CG SERIES

ASME RELIEF VALVE
C-19434B SERIES

LINE REGULATOR
BR1780 SERIES
1780 SERIES

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.

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

Conflict-Free Sourcing Initiative

ISO 9001:2015

Manufacturer License

KGSC Certificate

OA7770_50346789NTY
CRN OC15296_502346789NTY
OC7770_5023456789NTY
OG7770_502346789NTY
OH7770_5046789NTY
OC8040_502346789NTY

UV & NB

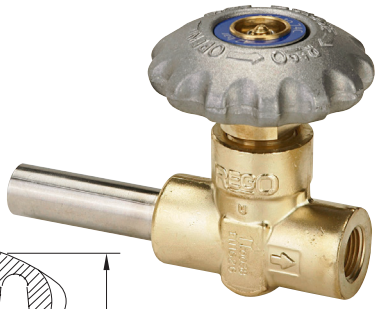
Short Stem Cryogenic Valves
T9450 Series & T9460 Series

Application
The T9450 and T9460 series valves are designed for use on portable cryogenic cylinders and other in-line shut-off valve applications.

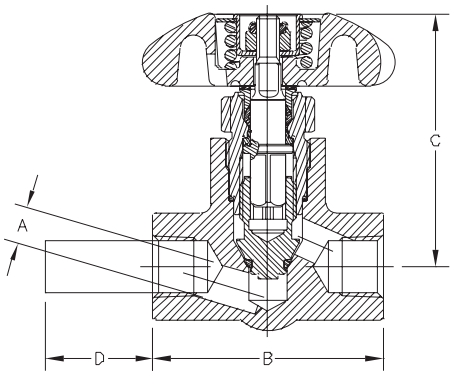
Features
- Spring loaded stem seal automatically adjusts for any gasket wear, eliminating the need to constantly retighten the packing nut
- Non-rising stem and low profile allow the valve to fit into tight areas and still provide easy access
- Unique pressure-sealed moisture barrier helps prevent freeze up at cryogenic temperatures
- Conical swivel seal design helps prevent seat galling from over torquing
- Cleaned for oxygen service per CGA G-4.1
- Maximum working pressure is 600 psig (42 barg)
- Working temperature range is -320°F to +165°F (-196ºC to +74ºC)
- Approved for TPED in accordance with EN1626
- 100% Factory Tested

REGO 10 YEAR WARRANTY

T9450 Series



T9460 Series



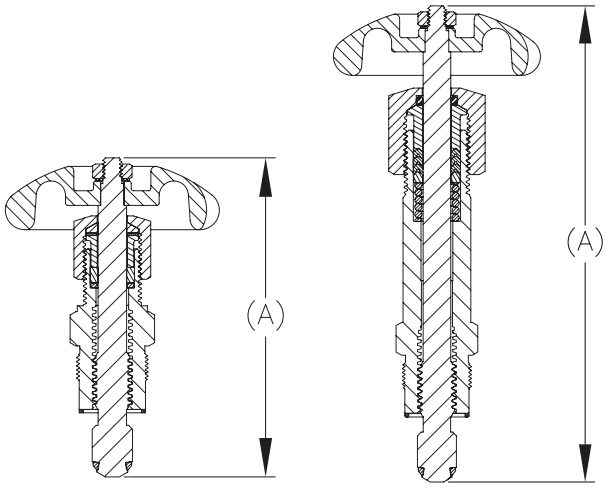
Materials
Body ..... Brass
Bonnet ..... Brass
Seat Disc ..... PCTFE
Stem Seal Gasket ..... PTFE
Handwheel ..... Aluminum
Spring ..... Stainless Steel
Stem ..... Brass
Poppet ..... Brass

Ordering Information

Part Number	Inlet	Outlet	Orifice A	Length B		Height (Approx.) C		Tube D	C_V (Kv)
				inches	mm	inches	mm		
T9452	¼" F.NPT	¼" F.NPT	.250	2½"	63.50	2¾"	69.85	None	.99 (0.85)
T9453	⅜"F.NPT	⅜"F.NPT	.406						1.76 (1.52)
T9454	½" F.NPT	½" F.NPT							1.79 (1.54)
T9464CA	.675" O.D. Tube	⅜"F.NPT	.406					1.16"	1.76 (1.52)
T9464DA								2.16"	
T9464ADA								3.41"	

Extended Stem Retrofit Kits

Application
Retrofit kits may be used to convert the 9450 and 9460 series short stem shut off valves into extended stem style. The conversion can be done without removing the valve from your system. Available in two stem lengths. All kits are oxygen cleaned and packaged per CGA G-4.1.



Materials
Body ..... Brass
Seat Disc ..... PCTFE
Handwheel ..... Aluminum
Packing ..... PTFE
Stem ..... Stainless Steel
Stem Seal Gasket ..... PTFE

Ordering Information

Part Number	Stem Length A	Style
BK9450R	6.5" (165.1mm)	Extended Bonnet and Stem, Spring Loaded Packing

ES8450 & TES8450 Series Extended Stem Valves
BK9450 & BK9470 Series Extended Bonnet Valves

Application
For use as a trycock valve or hose drain valve on cryogenic tanks, or as a use, liquid fill, or vent valve on mini-bulk cryogenic tanks. These valves can be used also for other cold gas applications requiring extended stem valves as LNG fueling.

Features
- Union bonnet
- One piece stainless steel stem
- Conical seat design
- Maximum working pressure is 600 psig (42 barg)
- Working temperature is –320°F to +165°F (-196ºC to 74ºC)
- Cleaned for oxygen service per CGA G-4.1
- 100% Factory Tested

TES8450 Series specific feature:

- Grafoil® packing
- Approved by PED and TPED

ES8450 Series specific feature:

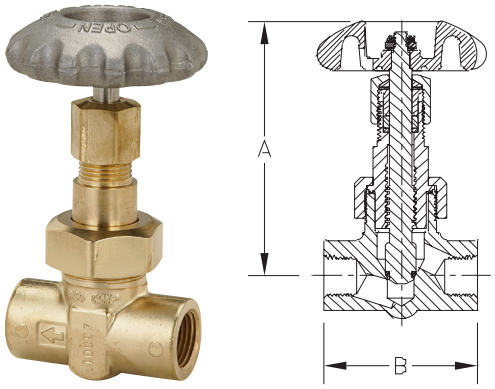
- Manual torque compression packing

BK9450 and BK9470 Series specific feature:

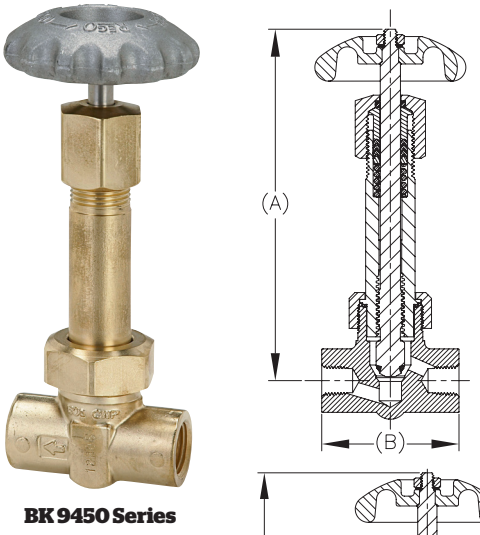
- Extended bonnet and spring loaded packing

BK9470 Series specific feature:

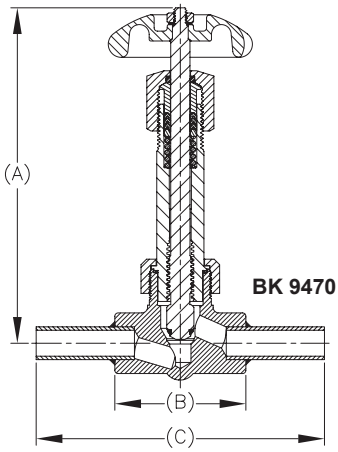
- 304 St. Stl Tube brazed into both ends



ES 8450 Series



BK 9450 Series



BK 9470 Series

Materials
Body and Bonnet ..... Brass
Stem ..... Stainless Steel
Seat Disc ..... PCTFE
Handwheel ..... Aluminum
Bonnet Gasket ..... PTFE

Conversion Kit
BK 9450-KIT is a bonnet and stem assembly kit to convert ES 8450 series and previous ES 9450 Series to the BK 9450 style.

Ordering Information

Part Number	Inlet/Outlet Connections	Packing	Height "A"		Body Width "B"		Width with Tube "C"		Cv (Kv)
			Inches	mm	Inches	mm	Inches	mm	
ES8452	¼" FNPT	PTFE	4.2"	107	2.5"	63	N/A		0.70 (0.60)
TES8452		Grafoil							
ES8453	⅜" FNPT	PTFE							1.10 (0.95)
TES8453		Grafoil							
ES8454	½"FNPT	PTFE							
TES8454		Grafoil							
BK9452	¼" FNPT	PTFE	6.5"	165					0.70 (0.60)
BK9453	3/8" FNPT								1.10 (0.95)
BK9454	½"FNPT								
BK9453FA	5/8" OD tubing x ⅜"FNPT						4.0"	102	
BK9475A	5/8" OD tubing both ends						5.5"	140	

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REGO-LOK™
for Securing CGA Fittings on Liquid Cylinders

Application

The REGO-LOK™ is designed for installation on the RegO T9450 and T9460 Series liquid cylinder valves to deter and prevent the removal of the CGA fitting from the valve. The REGO-LOK™ retains standard CGA outlet connection so unauthorized persons do not remove the fitting. By use of a special one-way bolt, the REGO-LOK™ is secured to the valve. The REGO-LOK™ installs in a few minutes with the use of screwdrivers, without valve disassembly, brazing, welding, or drilling. The REGO-LOK™ deters and prevents fitting removal by gas customers, however allows the replacement of fittings by authorized gas supplier plant personnel.

Use The REGO-LOK™ for compliance with CGA SB-26 for medical and industrial liquid cylinders.

REGO 10 YEAR WARRANTY

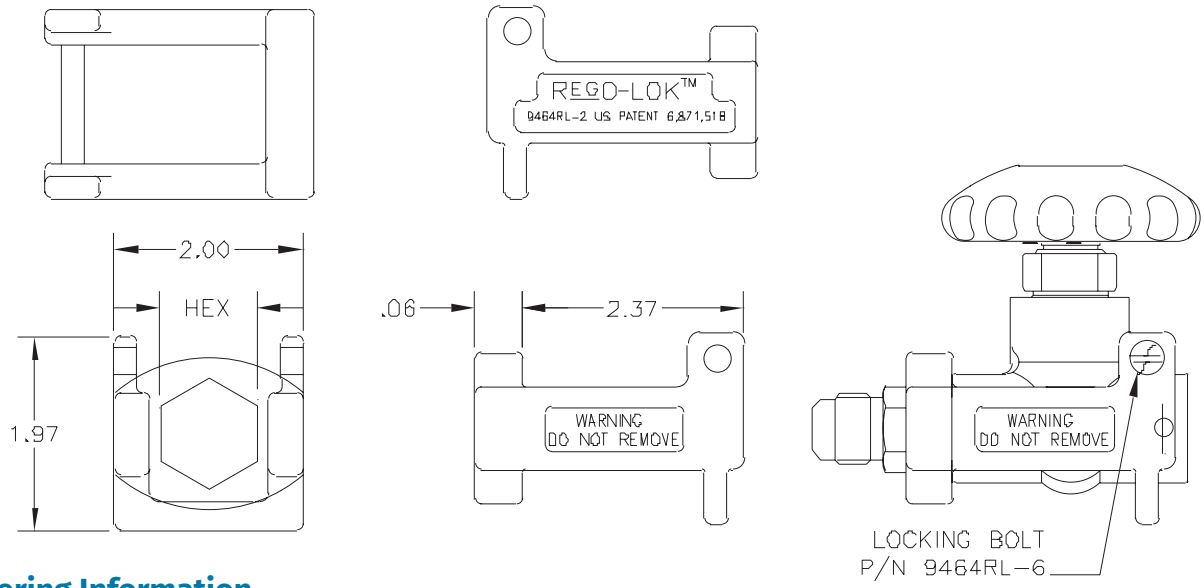
RegO-Lok™

Satisfies CGA SB-26 and FDA requirements for medical and industrial liquid cylinders.

Features

- Stainless Steel REGO-LOK™ with one-way bolt
- Retrofit all common liquid cylinder valves
- Can be supplied on new RegO liquid cylinder valves
- REGO-LOK™ indicates “WARNING: DO NOT REMOVE”
- Worn CGA fittings can be simply replaced by authorized personnel. Requires new 9464RL-6 Bolt
- Can fit over existing fittings for CGA 540, CGA 440, CGA 295, CGA 320, and CGA 326. Check fitting hex size

  NOTE: RegO supplied fitting P/N CGA580RL is required for REGO-LOK™ use with CGA 580 connection
- Prevents loosening of CGA fittings on valves



Ordering Information

Part Number	Item Description	Typical Service Connection
9464RL-0	REGO-LOK™ for ¾” hex fittings	N/A
9464RL-1	REGO-LOK™ for ⅞” fittings	CGA 320, CGA 326 & CGA 295
9464RL-2	REGO-LOK™ for 1” fittings	CGA 440, CGA 540
9464RL-3	REGO-LOK™ for 1⅛” hex CGA 580RL fitting by RegO	CGA 580
CGA580RL	⅜” MNPTxCGA for use with 9464RL-3	CGA 580

Pressure Building Regulator
RG502/RG503 Series

Application

The RG502/RG503 Series are primarily designed to maintain pressure on cryogenic liquid within cryogenic containers. They may also be used in cryogenic lines, vaporizers, and converter applications, being especially useful in installations where space and cost limitations are important. The RG502/RG503 Series are engineered to assist in maintaining an ideal pressure for Nitrogen, Oxygen, Argon, LNG, and other cryogenic cylinder applications.

Features

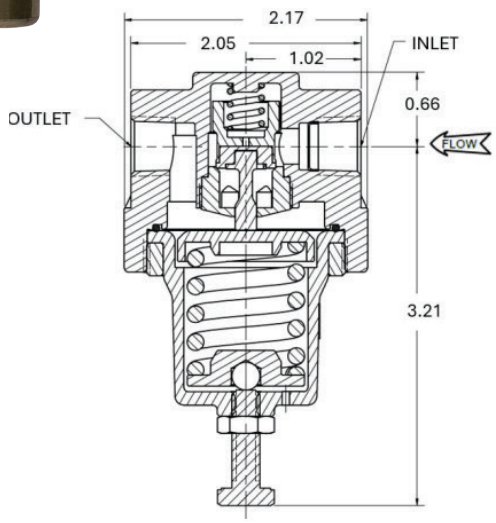
Temperature rating: -320ºF to +185ºF (-196ºC to +85ºC)
Maximum Inlet Pressure of 550 PSIG (37.9 BARG)
Set Pressure Range: 0 to 325 PSIG (0 to 24.1 BARG)
Compact design fits well in tight plumbing geometries
PED Certified (SEP)
Cleaned and packaged for Oxygen service

Materials

Body	Brass Alloy ASTM B283
Bonnet	Brass Alloy ASTM B283
Seat Disc	PTFE
Seat Material	304 Stainless Steel
Springs	Stainless Steel
Diaphragm	Phosphor Bronze ASTM B139
Diaphragm O-ring	PTFE
Screen	Monel®

ALSO AVAILABLE IN 3/8" NPT
INLET/OUTLET CONNECTS: RG503 SERIES

0C24569.2



RG502 Series

Ordering Information

Example Part Number:
RG502-050 (1/4" NPT parts, 50 PSIG setting)

RG503-050 (3/8" NPT parts, 50 PSIG setting)

Part Number	Operating Range PSIG (BARG)	Max. Inlet Pressure PSIG (BARG)	Inlet/Outlet Connection	Width Inches (mm)	Height Inches (mm)	Weight Lbs (Kg)
RG502-000 to 025	0-30 (0-2.1)	550 (37.9)	1/4" NPT	2.17 (55)	3.86 (98)	1.4 (0.64)
RG502-026 to 055	20-60 (1.4-4.1)					
RG502-056 to 200	50-225 (3.4-15.5)					
RG502-201 to 325	175-350 (12.1-24.1)					

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Pressure Building Regulator
RG502A/RG503A and AG Series

Application

The RG502A/RG503A and AG Series are primarily engineered to maintain an ideal pressure for Nitrogen, Oxygen, Argon, LNG, and other cryogenic lines and applications, perfect for installations where space and cost limitations are a priority. The RG502A/RG503A and AG Series offer additional options and features.

Features

Temperature rating: -320°F to +185°F (-196°C to +85°C)
Maximum Inlet Pressure of 550 PSIG (37.9 BARG)
Set Pressure Range: 0 to 325 PSIG (0 to 24.1 BARG)
Compact design fits well in tight plumbing geometries
PED Certified (SEP)
Cleaned and packaged for Oxygen service
Sintered Filter: Copper nickel or phosphor bronze nickel plated
T-handle adjustment screw

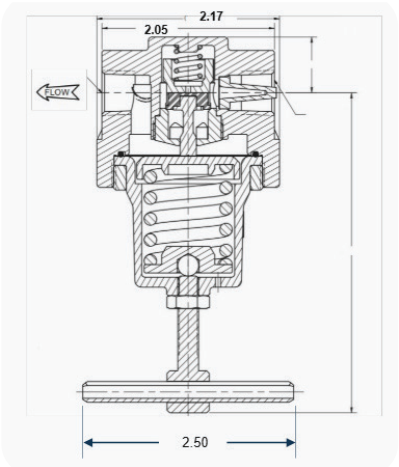
Options

The RG502A contains a sintered filter in place of the Monel® screen on the RG502.
The RG502AG contains the sintered filter in place of a Monel® screen, a T-handle adjustment screw in place of the bolt, and two 1/8"-27 NPTF gauge ports.

Materials

Body ..... Brass Alloy ASTM B283
Bonnet ..... Brass Alloy ASTM B283
Seat Disc ..... PTFE
Seat Material ..... 304 Stainless Steel
Springs ..... Stainless Steel
Diaphragm ..... Phosphor Bronze ASTM B139
Diaphragm O-ring ..... PTFE
Sintered Filter ..... Copper Nickel or Phosphor Bronze Nickle Plated

RG502A Series



RG502AG Series

Ordering Information

Example Part Number:
RG502-050A (50 PSIG pressure setting with a sintered filter)

Part Number	Operating Range PSIG (BARG)	Max. Inlet Pressure PSIG (BARG)	Inlet/Outlet Connection	Width Inches (mm)	Height Inches (mm)	Weight Lbs (Kg)
RG502-000 to 025A	0-30 (0-2.1)	550 (37.9)	1/4" NPT	2.17 (55)	3.86 (98)	1.4 (0.64)
RG502-026 to 055A	20-60 (1.4-4.1)					
RG502-056 to 200A	50-225 (3.4-15.5)					
RG502-201 to 325A	175-350 (12.1-24.1)					

Example Part Number:
RG502-050AG (50 PSIG pressure setting with a sintered filter, two gage ports, and a t-handle adjustment screw)

Part Number	Operating Range PSIG (BARG)	Max. Inlet Pressure PSIG (BARG)	Inlet/Outlet Connection	Width Inches (mm)	Height Inches (mm)	Weight Lbs (Kg)
RG502-000 to 025AG	0-30 (0-2.1)	550 (37.9)	1/4" NPT	2.50 (64)	5.28 (134)	1.5 (0.68)
RG502-026 to 055AG	20-60 (1.4-4.1)					
RG502-056 to 200AG	50-225 (3.4-15.5)					
RG502-201 to 325AG	175-350 (12.1-24.1)					

Cryogenic Pressure Builder
RG Series

Application

RG series cryogenic regulators are primarily designed to maintain pressure on cryogenic liquid within cryogenic containers. They may also be used in cryogenic lines, vaporizer and converter applications. They are especially useful in installations where space and cost limitations are important.

REGO 10 YEAR WARRANTY

RG Series

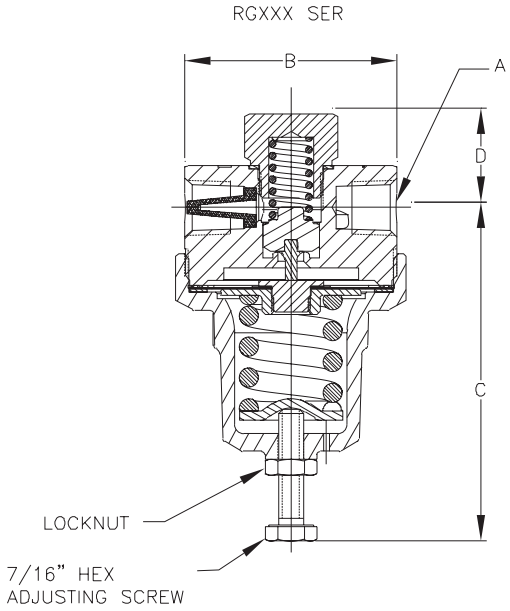
RGXXXAG with gauge port & T handle

Features

- All parts are copper alloy (brass), PTFE and stainless steel—materials selected specifically for compatibility with cryogenic temperatures down to -320°F (-196° C)
- PTFE seat helps assure a positive shut-off at cryogenic temperatures down to -320°F (-196° C)
- High and low pressure regulators are the same compact size—designed to fit in close quarters
- Interchangeable with existing cryogenic regulator units
- Inlet filter helps prevent foreign material from entering the regulator
- Locknut is provided to maintain adjusting screw setting
- RG090AG is available with T handle adjustment screw and gauge ports
- Maximum inlet pressure of 550 psig (37.9 barg)
- Cleaned for oxygen service per CGA G-4.1
- 100% Factory Tested

Materials

Body ..... Brass
Bonnet ..... Brass
Seat ..... PTFE
Springs ..... Stainless Steel
Diaphragm Gasket ..... PTFE
Backcap Gasket ..... Copper
Diaphragm ..... Bronze



Ordering Information

Part Number	Inlet / Outlet Connections (F.NPT) A Inches (mm)	Width B Inches (mm)	C Inches (mm)	D Inches (mm)	Operating Range (psig)
RG022A	¼" (6.35)	2 1/16" (52.32)	3" (76.20)	1" (25.40)	0-30 psig (0-2.1 barg)
RG125A					25-250 psig (1.7-17.2 barg)
RG125C3	⅜" (9.52)	2⅛" (53.97)	3.33" (84.58)	0.80" (20.32)	
RG175C3					
RG300A	¼" (6.35)	2 1/16" ((52.32)	3" (76.20)	1" (25.40)	125-350 psig (17.2-24.2 barg)
RG90AG					30-250 psig (2.1-17.2 barg)

*Contact sales representative for additional settings.

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REGO CRYOGENIC ECONOMIZERS
ECL602 SERIES

Application

The **ECL602 series** cryogenic economizers are designed to be used as pressure reducing valves to automatically maintain a constant inlet or back pressure, normally closed at pressures below its set-points and open at pressures above its set-pint. The ECL602 is primarily designed to assist in maintaining a desired system pressure ideal for **nitrogen, oxygen, argon**, and other cryogenic cylinder applications as well as LNG applications.

0C24071.2

PED Certified CE

Features

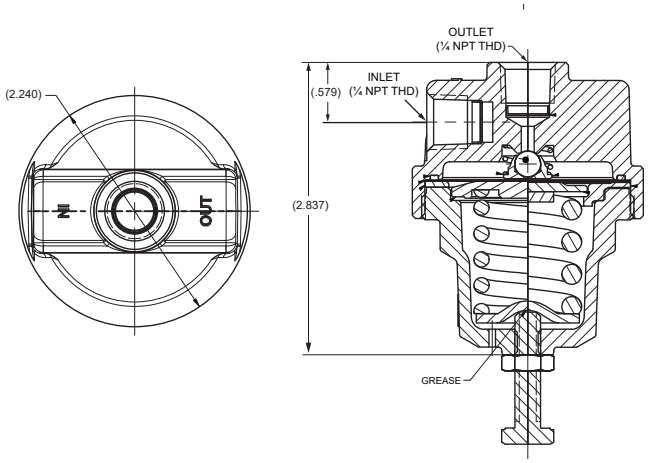
- Temperature rating: -320°F to +150°F (-196°C to +65°C)
- Maximum Inlet Pressure of 600 PSIG (41.3 BARG)
- Set Pressure Range: 10 to 550 PSIG (0.7 to 37.9 BARG)
- Compact design fits will in tight plumbing geometries
- PED Certified (SEP)
- Cleaned and packaged for oxygen service
- Body, bonnet, brass alloy ASTM B283
- Poppet seat - stainless steel
- Ball material - 304 stainless steel
- Screen - 150 Mesh Monel

Benefits

- Floating ball seat design self-centers for tight shut-off; no hole in diaphragm to attach seat to diaphragm eliminates a potential leak point
- Metal-to-metal with PTFE O-ring diaphragm edge seal to preclude the external leakage
- Compact, lightweight design is smaller than competition
- Small, highly polished seat contact surface area improves seat tightness and resists debris failure

Materials

Body ..... ASTM B283 Brass
Diaphragm ..... ASTM B16 Brass
Poppet Seat ..... Stainless Steel
Bonnet ..... ASTM B283 Brass
Springs ..... Stainless Steel
Adjusting Screw ..... Stainless Steel
Screen ..... Monel



ECL602

Ordering Information

Part Number	Operating Range PSIG (BARG)	Inlet/Outlet Connection	Width Inches (mm)	Height Inches (mm)	Weight Lbs (Kg)
ECL602-015 to -055	10-60 (0.7-4.1)	1/4" NPT	2.25 (57.1)	3.14 (79.7)	1.16 (0.53)
ECL602-056 to -175	50-175 (3.4-12.1)				
ECL602-176 to -350	151-350 (10.4-24.1)				
ECL602-351 to -550	325-550 (22.4-37.9)			3.35 (85.1)	1.46 (0.66)

Cryogenic Economizers
ECL502 Series

Application

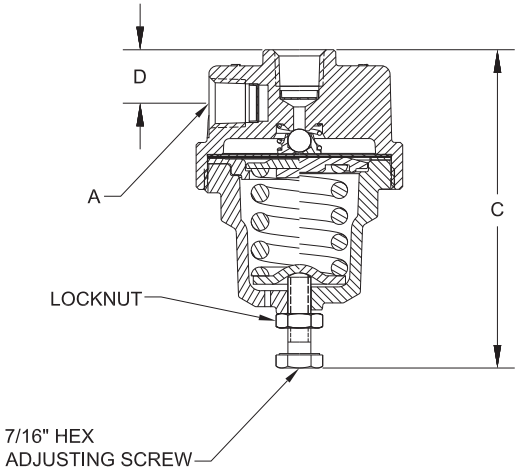
ECL502 series cryogenic economizers are designed to be used as pressure reducing valves to automatically maintain a constant inlet or back pressure, normally closed at pressures below its set point and open at pressures above its set point. The ECL502 is primarily designed to assist in maintaining a desired system pressure ideal for Nitrogen, Oxygen, Argon and other cryogenic cylinder applications with a 100% performance improvement over RegO's ECLXXX series. ECL502 series offers outstanding performance for maintaining LNG fuel line pressure.

REGO 10 YEAR WARRANTY

Features

- ECL502 series design provides premium flow characteristics allowing for fast pressure reduction while maintaining sensitive flow control at lower pressure settings
- All materials of construction- copper alloy, PTFE and stainless steel were selected for compatibility with cryogenic service
- 150 count mesh Monel screens installed into the inlet and outlet ports prevent debris from entering or damaging any downstream components
- Interchangeable with existing cryogenic economizer units.
- Bi-directional flow for LNG fuel systems
- Temperature range: -320°F to +165°F (-196°C to +74°C)
  Low Pressure Models ≤175: 375 psig (≤ 12,1: 25.3 barg)
  High Pressure Models >175: 550 psig (> 12,1: 37.9 barg)
- Pressure setting range: 10-350 psig (0.7-24.1 barg)
- Clean for oxygen service per CGA G-4.1
- Designed in accordance with UNECE.R110 19 - 340 psig (1.3 -23.4 barg)

ECL Series



Materials

Body	Brass
Diaphragm Liner	PTFE
Poppet Seat	Stainless Steel
Adjusting Screw	Stainless Steel
Bonnet	Brass
Screen	Monel
Diaphragm	Bronze
Springs	Stainless Steel

Ordering Information

Part Number	Inlet / Outlet Connections (F.NPT) A	Max inlet pressure	Width B	C	D	Operating Range
ECL502-22	¼" NPT	235 psig (16 barg)	2.25" 57 mm	3.5" 89 mm	.58" 15 mm	10-60 psig (0.7 - 4.1 barg)
ECL502-100						50 - 175 psig (3.4 - 12.1 barg)
ECL502-123						
ECL502-140						
ECL502-175						
ECL502-325		550 psig (38 barg)				150 - 350 psig (10.3 - 24.1 barg)

*Contact sales representative for additional settings.

REGO CRYOGENIC ECONOMIZERS
ECL603/604 SERIES

Application

The **ECL603/604 series** cryogenic economizers are designed to be used as pressure reducing valves to automatically maintain a constant inlet or back pressure, normally closed at pressures below its set-points and open at pressures above its set-point. The ECL603/604 is primarily designed to assist in maintaining a desired system pressure ideal for nitrogen, oxygen, argon, and other cryogenic cylinder applications as well as LNG applications.

Features

- Temperature rating: -320°F to +150°F (-196°C to +65°C)
- Maximum Inlet Pressure of 720 PSIG (49.6 BARG)
- Set Pressure Range: 15 to 650 PSIG (1.04 to 44.8 BARG)
- Compact design fits will in tight plumbing geometries
- PED Certified (SEP)
- Cleaned and packaged for oxygen service
- Body, bonnet, brass alloy ASTM B283
- Seat material:
  - 15 - 75 PSIG - PCTFE
  - 76 - 650 PSIG - Brass ASTM B16
- Ball material - 304 stainless steel

Benefits

- Floating ball seat design self-centers for tight shut-off; no hole in diaphragm to attach seat to diaphragm eliminates a potential leak point
- Metal-to-metal with PTFE O-ring diaphragm edge seal to preclude the external leakage
- Compact, lightweight design is smaller than competition
- Small, highly polished seat contact surface area improves seat tightness and resists debris failure

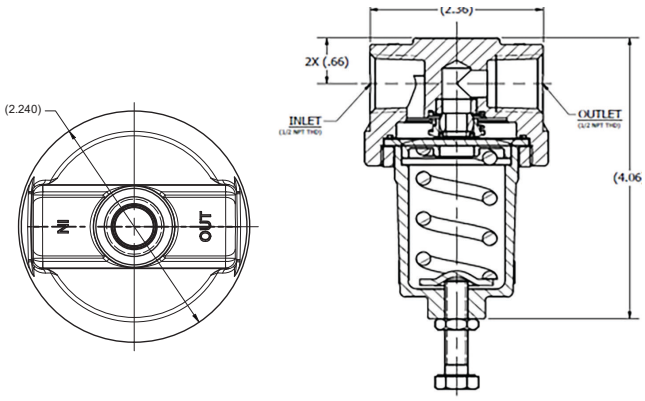
Materials

Body ..... ASTM B283 Brass
Diaphragm ..... ASTM B103 Phosphor Bronze
Poppet Seat ..... See Features
Bonnet ..... ASTM B283 Brass
Springs ..... Stainless Steel
Adjusting Screw ..... Stainless Steel
Screen ..... None

Also available in 3/8” NPT inlet/outlet connections - ECL603 Series

0C24071.2

PED Certified CE



ECL604

Ordering Information

Part Number	Operating Range PSIG (BARG)	Inlet/Outlet Connection	Width Inches (mm)	Height Inches (mm)	Weight Lbs (Kg)
ECL604-015 to 025	15 to 30 (1.04 to 2.1)	1/2” NPT	2.36 (59.9)	4.88 (122)	2.3 (1.1)
ECL604-026 to 045	20 to 50 (1.4 to 3.4)				
ECL604-046 to 075	40 to 80 (2.8 to 5.2)				
ECL604-076 to 125	75 to 150 (5.2 to 10.3)				
ECL604-126 to 255	100 to 275 (6.9 to 18.9)				
ECL604-256 to 375	200 to 400 (13.8 to 27.6)				
ECL604-376 to 650	300 to 600 (20.7 to 44.8)				

Cryogenic ¼" Combination Pressure Builder/Economizer
CBH502 & CBC502 Series

Application

The regulator combines the function of Pressure Building and Economizer functions in one compact unit. Available in Chart and Taylor-Wharton piping geometries and a variety of pressure ratings.

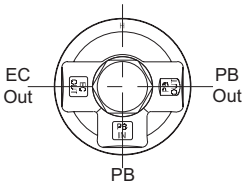
REGO 10 YEAR WARRANTY

Features

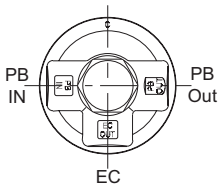
- All parts are copper alloy (brass), PTFE and stainless steel materials selected specifically for compatibility with cryogenic temperatures down to -320° F. (–196ºC)
- PTFE seat helps assure a positive shut-off at cryogenic temperatures down to -320° F. (–196ºC)
- High and low pressure builder/economizers are the same compact size designed to fit in close quarters.
- Interchangeable with existing cryogenic regulator units.
- Inlet screen helps prevent foreign material from entering the regulator.
- Locknut is provided to maintain adjusting screw setting.
- Maximum inlet pressure of 550 psig (37.9 barg)
- Cleaned for oxygen service per CGA G-4.1
- 100% Factory Tested.
- Suitable for argon, CO2, nitrogen, oxygen and LNG.

Materials

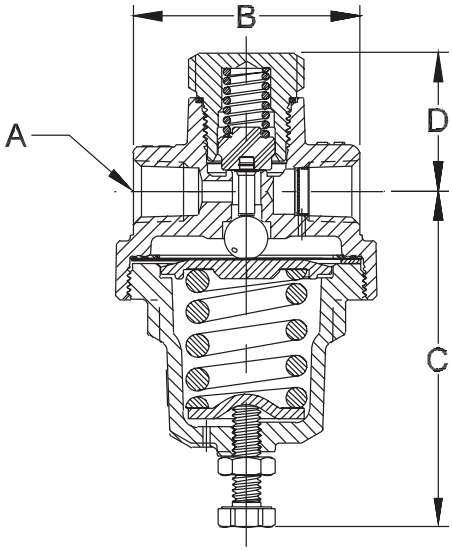
Body	Brass
Bonnet	Brass
Seat Disk	PTFE
Springs	Stainless Steel
Gaskets	PTFE & Copper
Diaphragm	Bronze



CBH Series



CBC Series



CBH502 Series

Ordering Information

Part Number	Inlet/Outlet Connections (F.N.P.T.)	"A"	"B"	"C"	"D"	Factory Pressure Setting (psig)	Operating Range (psig)
CBH502-025	¼"	¼"	1.97"	2.89"	1.19"	25 psig (1.7 barg)	20-60 psig (1.3-4.1 barg)
CBH502-125						125 psig (8.6 barg)	50-175 psig (3.45-12.1 barg)
CBH502-300						300 psig (20.7 barg)	150-350 psig (10.3-24.1 barg)
CBH502-315						315 psig (21.7 barg)	
CBH502-325						325 psig (22.4 barg)	
CBH502-350						350 psig (24.1 barg)	
CBC502-025						25 psig (1.7 barg)	20-60 psig (1.3-4.1 barg)
CBC502-125						125 psig (8.6 barg)	50-175 psig (3.45-12.1 barg)
CBC502-300						300 psig (20.7 barg)	150-350 psig (10.3-24.1 barg)
CBC502-325						325 psig (22.4 barg)	
CBC502-350						350 psig (24.1 barg)	

Cryogenic Liquid Cylinder Regulator
LCR Series

Application

The RegO LCR Series pressure reducing regulator assembly controls the pressure from the gas use line or the discharge of any liquid cylinder with a flow capacity at least double the capacity of the cylinder vaporization coil. For use with oxygen, nitrogen, argon, or carbon dioxide liquid cylinders.

Features

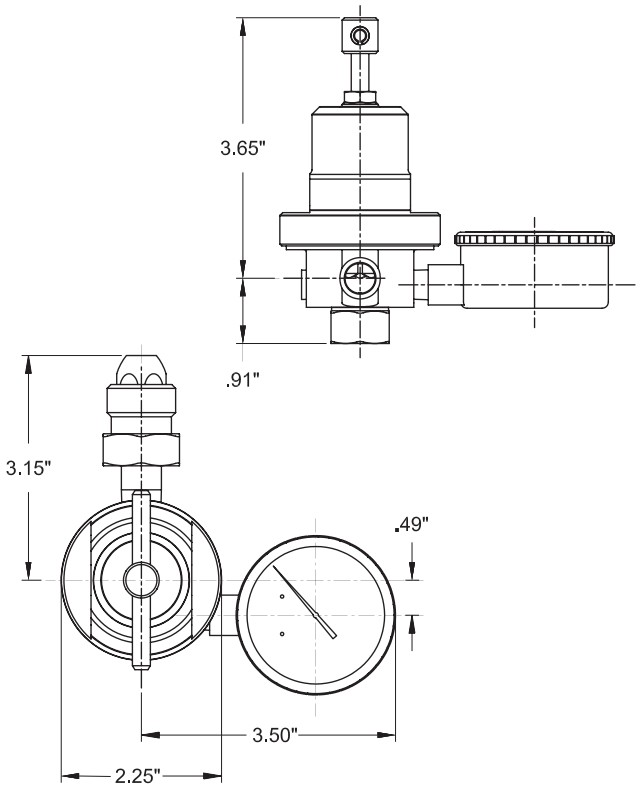
- Easy adjusting screw to maintain pressure setting
- 100% Factory tested
- CGA fitting inlet connection for ready hook-up and ¼" F. NPT outlet.
- Gauges with applicable pressure ranges.
- Two delivery pressure ranges available.
- Clean for use in Oxygen per CGA G-4.1
- Temperature range -320°F (-196°C) to + 165°F (74°C)
- Maximum inlet pressure 550 psig (37.9 barg)
- Inlet filter helps prevent foreign material from entering the regulator.

REGO 10 YEAR WARRANTY

LCR Series

Materials

Body & Bonnet	Brass
Seat	PTFE
Spring & Nut	Stainless Steel
Diaphragm Gasket	PTFE
Diaphragm	Bronze
Backcap Gasket	Copper



Ordering Information

Part Number	Gas	Liquid Cylinder Connection	Delivery Pressure Range
LCR200A580	Nitrogen/Argon	CGA 580	25 to 200 psig (1.7-13.8 barg)
LCR200A540	Oxygen	CGA 540	
LCR200A320	Carbon Dioxide	CGA 320	25 to 200 psig (1.7-13.8 barg)
LCR350A580	Nitrogen/Argon	CGA 580	100 to 350 psig (6.9-24.1 barg)
LCR350A540	Oxygen	CGA 540	
LCR350A320	Carbon Dioxide	CGA 320	

Cryogenic Gas Relief Valves, Non-ASME
PRV9400 Series

Application
9400 series relief valves are specifically designed for vapor line safety relief applications and cryogenic liquid containers.

Features
- Cleaned for Oxygen service per CGA G-4.1
- Bubble-tight at 95% of set pressure
- Easy to read color coded barg/mpa labels
- Tamper resistant
- Adapters provide standard pipe thread connections for venting gas to the outdoors
- Repeatable performance
- 100% factory tested
- Temperatures Range (Teflon Seat) -320° to +165° F. (-196°C to +74°C)
- Temperatures Range (Flurosilicone Seat) -60° to +165° F. (-51°C to +74°C)
- Rated for gas service only
- Designed in accordance with & approved by ECE R110

Materials SS Style
Body ..... Stainless Steel
Spring ..... Stainless Steel
Seat Retainer..... Stainless Steel
Pipe-Away Adapter ..... Stainless Steel

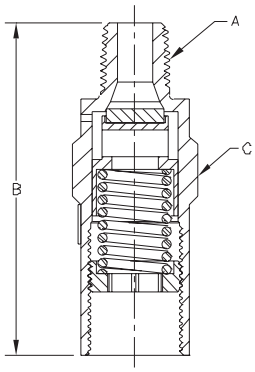
Materials PRV and B-Style
Body ..... Brass
Spring ..... Stainless Steel
Seat Retainer..... Brass
Pipe-Away Adapter ..... Brass

Flow Performance
- 9400 for set pressure 90-600 psig, flow of 0.783 SCFM Air/psia at 110% of set pressure.
- 9400 for set pressure 15-89 psig, flow of 0.750 SCFM Air/psia at 110% of set pressure.
- B-9425N flow of 6.7 SCFM Air/psia at 120% of set pressure
- B-9426N flow of 11.0 SCFM Air/psia at 120% of set pressure

Seat Material Option
F for Fluorosilicone for PRV and SS styles for 15-139 psia
T for PTFE for PRV and SS styles for 140-600 psia
N for B-9425 and B-9426, Fluorosilicone seat, all set pressures

Drain Hole Option
Relief valves without pipe-away typically provided with drain holes, leave blank. **P** - for relief valves without drain hole, for example PRV9432TP350

WARNING: Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage. The useful safe service life of a pressure relief valve may be significantly affected by the service environment.



REGO 10 YEAR WARRANTY

9400 Series

Ordering Information
Fill in the blanks with options below.

Example: PRV9432T350

PRV	9432	T	Blank or "P"	350	Blank or "P"
Style	Size	Seat Material	Drain Hole	Set Pressure	Pipe-away Option

This example part number indicates a ¼" MNPT PRV style brass relief valve with PTFE seat, set at 350 psig with drain hole and no pipe-away adapter.

Pipe-away Option
Pipe-away included and attached, No drain hole in relief valve
For example PRV9432TP350
Leave blank for relief valve without pipe-away attached
For example PRV9432TP350

Set Pressure
Specify set pressure within range specified for style and size. The B-9425 and B-9426N are available in select settings only. Special order.

For easy identification, the following standard settings have color coded labels for all PRV and SS Style sizes and settings marked in psig and barg:

Color Identification

22 psig	230 psig
35 psig	350 psig
50 psig	450 psig
100 psig	500 psig
150 psig	

Ordering Information

Style	Size	Inlet MNPT A	Body and Valve Material	Pressure Setting Range psig	Height B	Wrenching Hex C	Orifice Size Sq. Inch	Pipe-Away Adapter P/N	Pipe-Away Outlet FNPT
PRV	9432	¼"	Brass	15-600	2.6"	⅞"	.062	B-9412-2	⅜"
SS			Stainless Steel					SS-9412-4	½"
PRV	9433	⅜"	Brass					B-9412-2	⅜"
SS			Stainless Steel					SS-9412-4	½"
PRV	9434	½"	Brass		2.8"			B-9412-4	
SS			Stainless Steel					SS-9412-4	
B-	9425	¾"	Brass	20-300	3.4"	1¾"	.44	B-3131-10	1"
	9426	1"		60-300	5.3"	2⅜"	.62	B-3132-10	1¼"

Pressure Setting and Flow Data
PRV9400

Pressure Setting and Flow Data PRV9400 Series								
Pressure Setting psig	barg	Air Flow Capacity SCFM	Pressure Setting psig	barg	Air Flow Capacity SCFM	Pressure Setting psig	barg	Air Flow Capacity SCFM
15	1.0	25	215	14.8	197	450	31.0	399
20	1.4	28	220	15.2	201	460	31.7	408
22	1.5	30	225	15.5	205	470	32.4	416
25	1.7	32	230	15.9	210	480	33.1	425
30	2.1	36	235	16.2	214	490	33.8	434
35	2.4	40	240	16.5	218	500	34.5	442
40	2.8	44	250	17.2	227	510	35.2	451
45	3.1	48	260	17.9	235	520	35.9	459
50	3.4	52	270	18.6	244	530	36.5	468
55	3.8	56	275	19.0	248	540	37.2	477
60	4.1	61	280	19.3	253	550	37.9	485
65	4.5	65	285	19.7	257	560	38.6	494
70	4.8	69	290	20.0	261	570	39.3	502
75	5.2	73	300	20.7	270	580	40.0	511
80	5.5	77	310	21.4	279	590	40.7	520
85	5.9	81	320	22.1	287	600	41.4	528
90	6.2	89	325	22.4	291			
100	6.9	98	330	22.8	296			
110	7.6	106	340	23.4	304			
120	8.3	115	350	24.1	313			
125	8.6	119	360	24.8	322			
130	9.0	123	370	25.5	330			
140	9.7	132	375	25.9	334			
150	10.3	141	380	26.2	339			
160	11.0	149	390	26.9	347			
170	11.7	158	400	27.6	356			
175	12.1	162	410	28.3	365			
180	12.4	167	420	29.0	373			
190	13.1	175	425	29.3	378			
200	13.8	184	430	29.6	382			
210	14.5	192	440	30.3	390			

Color Identification

22 psig	230 psig
35 psig	350 psig
50 psig	450 psig
100 psig	500 psig
150 psig	

Color Identification

1.51 barg	15.85 barg
2.41 barg	24.13 barg
3.44 barg	31.02 barg
6.89 barg	34.47 barg
10.34 barg	

Non-ASME Ordering Information

PRV	94	32	T	P	350	P

- Pipe-Away Adapter (Blank designates no adapter)
- Pressure Setting (psig)
- Without Drain Hole (Blank designates drain hole)
- Seal Material Teflon (Available F for Fluorosilicone)
- Size ¼" (Available 33 for 3/8" and 34 for ½")
- Series Identification
- Style and Material Brass. (Available SS for Stainless Steel)

Cryogenic Gas Relief Valves, ASME
PRV19430 & PRV29430 Series

Application
The 19430 and 29430 relief valves are designed for oxygen and other industrial gases and for cryogenic service in the vapor space. Apply on piping systems, liquid cylinders or mini-bulk cryogenic containers where an ASME relief valve is required.

Features
- A.S.M.E. rated, National Board Certified
- Bubble tight at 95% of set pressure
- Full flow at 110% at set pressure
- Repeatable performance
- 100% factory tested
- Temperatures Range (Teflon Seat) -320° to +165° F (-196ºC to +74ºC)
  (Flurosilicone Seat) -60° to +165° F (-51ºC to +74ºC)
- Cleaned and packaged for oxygen service per CGA G-4.1
- Rated for gas service only
- Color coded labels clearly identify pressure setting range
- Tamper resistant
- In liquid service be sure to use with a candy cane riser (Sold Separately)

Materials SS Style
Body	Stainless Steel
Spring	Stainless Steel
Seat Retainer	Stainless Steel
Pipe-Away Adapter	Stainless Steel

Materials PRV and B-Style
Body	Brass
Spring	Stainless Steel
Seat Retainer	Brass
Pipe-Away Adapter	Brass

Flow Performance
For set pressures 90 - 600 capacity is 0.692 SCFM of air per psig of flow pressure. For set pressures 15 - 89 capacity is 0.750 SCFM of air per PSIA of flow pressure. Flow pressure per ASME is 10% above set pressure or +3 psig (0.2 barg), whichever is greater.

Ordering Information
Fill in the blanks with options below.

Example: PRV019432T350

PRV	1	9432	T	Blank or "P"	350
Style	Body Material	Size	Seat Material	Drain Hole	Set Pressure

Body Material Option
1 ASME approved valve made of brass
2 ASME approved valve made of stainless steel

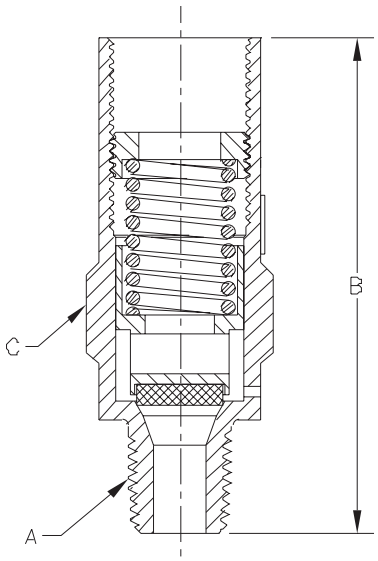
Seat Material Option
F for Fluorosilicone for 15 to 139 psig (6.2 - 9.5 barg) set points.
T for PTFE for 140-600 psig (9.6 - 41.4 barg) set points.

Drain Hole Option
Leave blank for relief with drain hole. Insert **P** if no drain hole.

Set Pressure
Enter number for set pressure in psig (6.2 - 41.4 barg) from 15 to 600.

REGO 10 YEAR WARRANTY

19430 Series



The use of a candy cane riser is recommended for liquid phase installation of these PRVs.

Setpoint tolerance is ± 3% of the set pressure or ± 2 psig whichever is greater.

WARNING: Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage. The useful safe service life of a pressure relief valve may be significantly affected by the service environment.

Ordering Information

Part Number	Body and Valves Material	Pressure Setting Range psig (barg)	Inlet MNPT A Inches	Height B Inches (mm)	Wrenching Hex C inches (mm)	Kd value	Orifice Size In2 (mm2)
PRV19432	Brass	15-600 (1.03-41.36)	¼"	2.6" (66.04)	⅞" (22.35)	0.686	.062 (40)
PRV29432	Stainless Steel						
PRV19433	Brass		⅜"				
PRV29433	Stainless Steel						
PRV19434	Brass		½"	2.8" (71.12)			
PRV29434	Stainless Steel						

Pipe-away adapter options available (sold separately)
Drain hole can not be used with pipe-away

100 RegO Dr. Elon, NC 27244 USA www.regoproducts.com

Pressure Setting and Flow Data
PRV19430 and PRV29430 Series

Pressure Setting and Flow Data PRV19430 and PRV29430 Series								
Pressure Setting psig	barg	Air Flow Capacity SCFM	Pressure Setting psig	barg	Air Flow Capacity SCFM	Pressure Setting psig	Barg	Air Flow Capacity SCFM
15	1	25	215	14.8	174	450	31	353
20	1.4	28	220	15.2	178	460	31.7	360
22	1.5	30	225	15.5	181	470	32.4	368
25	1.7	32	230	15.9	185	480	33.1	376
30	2.1	36	235	16.2	189	490	33.8	383
35	2.4	40	240	16.5	193	500	34.5	391
40	2.8	44	250	17.2	200	510	35.2	398
45	3.1	48	260	17.9	208	520	35.9	406
50	3.4	52	270	18.6	216	530	36.5	414
55	3.8	56	275	19	220	540	37.2	421
60	4.1	61	280	19.3	223	550	37.9	429
65	4.5	65	285	19.7	227	560	38.6	436
70	4.8	69	290	20	231	570	39.3	444
75	5.2	73	300	20.7	239	580	40	452
80	5.5	77	310	21.4	246	590	40.7	459
85	5.9	81	320	22.1	254	600	41.4	467
90	6.2	79	325	22.4	258			
100	6.9	86	330	22.8	261			
110	7.6	94	340	23.4	269			
120	8.3	102	350	24.1	277			
125	8.6	105	360	24.8	284			
130	9	109	370	25.5	292			
140	9.7	117	375	25.9	296			
150	10.3	124	380	26.2	299			
160	11	132	390	26.9	307			
170	11.7	140	400	27.6	315			
175	12.1	143	410	28.3	322			
180	12.4	147	420	29	330			
190	13.1	155	425	29.3	334			
200	13.8	162	430	29.6	337			
210	14.5	170	440	30.3	345			

Color Identification

22 psig	230 psig
35 psig	350 psig
50 psig	450 psig
100 psig	500 psig
150 psig	

Color Identification

1.51 barg	15.85 barg
2.41 barg	24.13 barg
3.44 barg	31.02 barg
6.89 barg	34.47 barg
10.34 barg	

ASME Ordering Information

PRV	194	32	T	P	350

- 350 → Pressure Setting (psig)
- P → Without Drain Hole (Blank designates drain hole)
- T → Seal Material Teflon (Available F for Fluorosilicone)
- 32 → Size ¼" (Available 33 for 3/8" and 34 for ½")
- 194 → Series Identification and Material, 194 for Brass and 294 for SS
- PRV → Style

RegO® CO_2 Relief Pipe Away Manifold
RPA250

Application

The RPA250 Carbon Dioxide Pipeaway Manifold is designed to position the relief outlets on a CO_2 beverage liquid cylinder so that they are easy to capture and pipe away. This manifold is for use only with RegO PRV9430, SS9430, PRV19430 and PRV29430 Series Pressure Relief Valves. This manifold is recommended to be used with Pressue Relief Valves without drain holes. PRVs sold separately.

Features

- Available in 1/2" inlet X 3/8" outlet F.NPT connections, for use with 1/4" PRVs*
- Temperature Rating: -109°F (-78.3°C) to +140°F (+60°C)
- Pressure Rating: 600 PSIG (41.4 bar)
- Brass forged bodies
- Dual relief valve inlet block positions the relief outlets so that they are easy to capture and pipe away
- Outlet block captures the relief outlet as well as the cylinder port outlet for piping away.

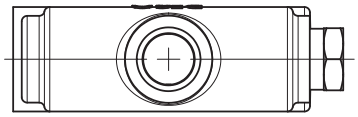
RPA250

Benefits

- Smaller installation space required on top of cylinder
- Reduces assembly labor by eliminating fittings and copper piping
- Simplifies relief plumbing for faster turnaround
- Minimizes potential leak points
- Simplifies and reduces maintenance time required for PRV field replacement – easily and quickly screw PRVs out and back in.

Materials

Bodies.....Brass per ASTM B283 C37700/EN12165-CW617N
Adapter.....Brass per ASTM B16 C36000
Nut, Clamp.....Brass per ASTM B16 C36000
Plug, Pipe.....Zinc plated steel
O-ring..... Silicone



CRN REGISTERED
REGO 10 YEAR WARRANTY
REGO 100% TESTED ★

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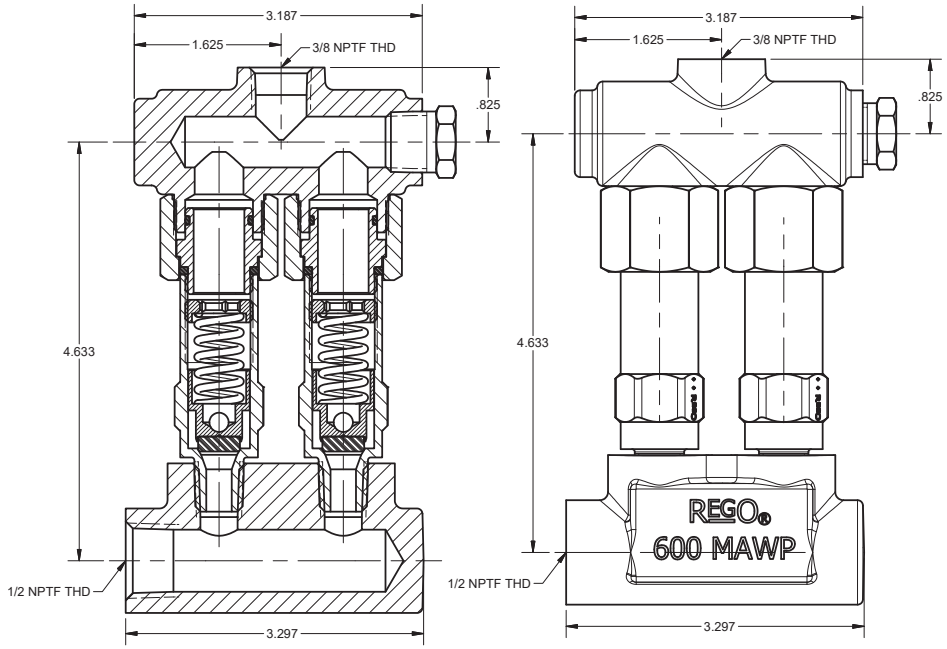


Ordering Information

Part Number	Inlet Connection	Outlet Connection Connection	PRV Size	Weight (w/o PRVs)	Weight (w/2 PRVs)	Width	Height	Depth
RPA250	1/2" NPTF	3/8" NPTF	1/4" NPTF	2.8 lbs	3.3 lbs	3.29"	6.07	1.16

* Additional sizes available upon request

100 RegO Dr. Elon, NC 27244 USA www.regoproducts.com

Brass High Pressure ASME Relief Valves
PRV19534K Series

REGO 10 YEAR WARRANTY

Application

The RegO PRV19534 Series relief valves are designed for CO2 and other industrial gases and for cryogenic service in the vapor space. Apply on piping systems, liquid cylinders or mini-bulk cryogenic containers where an ASME relief valve is required. Compatible with all oxygen, nitrogen, argon, helium, LNG and CO2.

Features

- All valves are cleaned and packaged for oxygen service per CGA G-4.1
- Bubble tight at 95% of set pressure
- Full flow at 110% of set pressure
- Temperature range -320°F to +165°F (-196ºC to +74ºC)
- Rated for gas service only, not liquid
- Setpoint tolerance +/- 3%
- Available in brass with settings from 800 to 1,000 psig
- Builds off proven experience of and further extends PRV9400 series offerings
- ASME rated National Board Certified
- Easy to read color coded psig / bar labels
- Tamper resistant
- Adapters provide standard pipe thread connections for venting gas to the outdoors (B-9412-4, sold separately)
- Repeatable performance
- 100% factory tested
- In liquid service be sure to use with a candy cane riser (sold separately)
- In liquid service be sure to use with a candy cane riser (Sold Separately)

Flow Performance

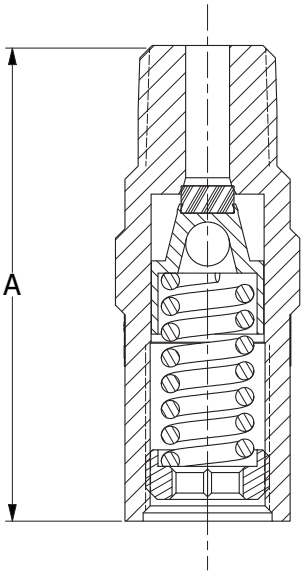
For set pressures 800-1000 psig, capacity is 0.805 SCFM of air per PSIA of flow pressure. Flow pressure per ASME is 10% above set pressure or +3 PSIG, whichever is greater.

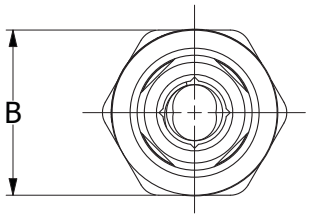
Materials

Body ..... Brass ASTM B16 UNS C36000
Spring ..... Stainless Steel ASTM A313
Seat Retainer..... Brass ASTM B16 UNS C36000
Seat ..... PCTFE (Kel –F)
Pipe-Away Adapter ..... Brass ASTM B16 UNS C36000

The use of a candy cane riser is recommended for liquid phase installation of these PRVs.

PRV19534K Series





Ordering Information

Part Number	Material	Pressure Setting Range psig (barg)	Inlet M.NPT	"A" Inches (mm)	"B" Inches (mm)	Orifice Size Inch² (mm²)	Kd Value	Pipe-Away Adapter P/N
PRV19534K	Brass	800- 1000 (55.1 - 68.9)	½"	2.9 (73.1)	1.0 (25.4)	0.266 (171.6)	0.79	B-9412-4

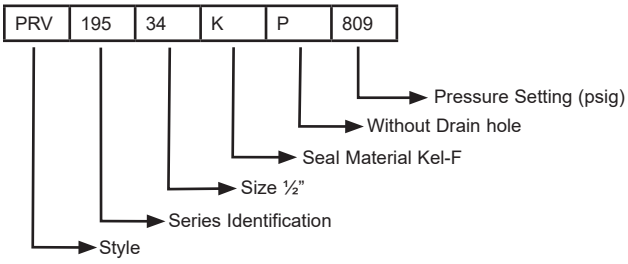
Pressure Setting and Flow Data
PRV19534K Series

Pressure Setting PSIG	Pressure Setting BARG	Air Flow Capacity SCFM	Pressure Setting PSIG	Pressure Setting BARG	Air Flow Capacity SCFM
800	551.6	720	900	620.5	809
805	555	725	905	624	813
810	558.5	729	910	627.4	818
815	561.9	734	915	630.9	822
820	565.4	738	920	634.3	826
825	568.8	742	925	637.8	831
830	572.3	747	930	641.2	835
835	575.7	751	935	644.7	840
840	579.2	756	940	648.1	844
845	582.6	760	945	651.6	849
850	586.1	765	950	655	853
855	589.5	769	955	658.5	857
860	593	773	960	661.9	862
865	596.4	778	965	665.3	866
870	599.8	782	970	668.8	871
875	603.3	787	975	672.2	875
880	606.7	791	980	675.7	880
885	610.2	796	985	679.1	884
890	613.6	800	990	682.6	888
895	617.1	804	995	686	893
			1000	689.5	897

Setpoint tolerance is ± 3% of the set pressure or ± 2 psig whichever is greater.

WARNING: Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage. The useful safe service life of a pressure relief valve may be significantly affected by the service environment.

ASME Ordering Information



Noise Reduction Relief Valve
NRF9430 Series

Application
For use with cryogenic liquid cylinders to provide substantial reduction of discharge noise in sensitive environments. Our patent pending design allows for an efficient and environmentally friendly flow path.

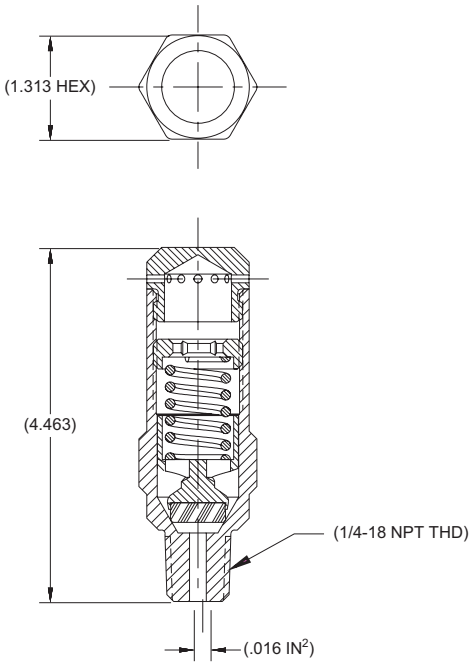
Features
- Packaged and cleaned for oxygen service per CGA G-4.1
- Bubble tight at 95% of set pressure
- Temperature range –320ºF to +165ºF (-196º to +74 Cº)
- 100% factory tested
- Tamper Resistant
- Repeatable Performance
- Below 90db@ 350 Set Pressure @ 2 meters away
- In liquid service be sure to use with a candy cane riser (Sold Separately)

REGO 10 YEAR WARRANTY

NRF Series

Pipe Away Option
P Pipeaway included and attached, No drain hole in relief valve.
For example NRF9432T140P
Leave blank for relief valve without pipe-away attached.
Pipeaway adapter part number NRF250-4.

Materials
Body ..... Brass
Spring ..... Stainless Steel
Seat Retainer..... Brass



Ordering Information

Part Number	Inlet Inches (mm)	Set Pressure	
		psig	barg
NRF9432T230	¼" (6.35)	230	15.9
NRF9432T350		350	24.1
NRF9432T500		500	34.5

Noise Reduction Relief Valve
NR Series

Application

Designed especially for indoor applications such as laboratories where relief valve discharge noise is an issue. RegO's NR series PRV provides excellent flow characteristics with a 50% reduction in outlet noise related to relief valve.

Features

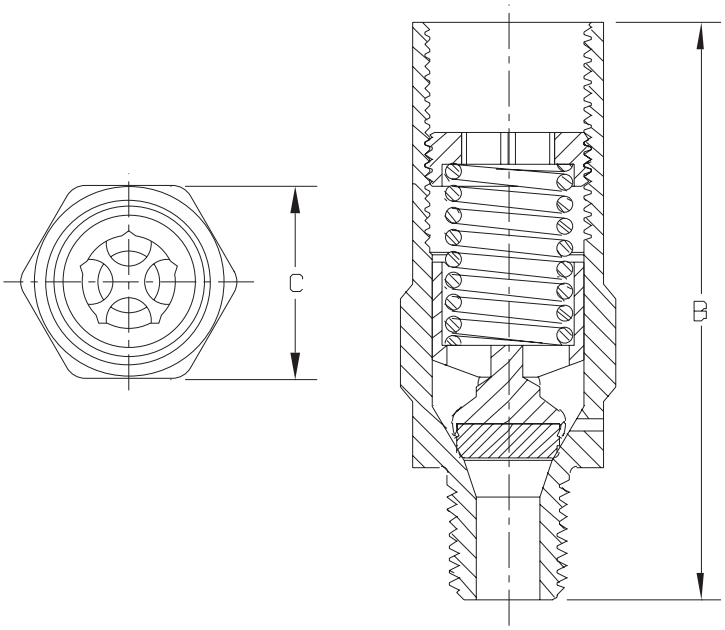
- Packaged and cleaned for oxygen service per CGA G-4.1
- Bubble tight at 95% of set pressure
- Temperature range –320ºF to +165ºF (-196º to +74 Cº)
- 100% factory tested
- Repeatable Performance
- Below 90db@ 350 Set Pressure @ 2 meters away
- In liquid service be sure to use with a candy cane riser (Sold Separately)

Materials

Body ..... Brass
Spring ..... Stainless Steel
Gasket ..... PTFE

WARNING: Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage. The useful safe service life of a pressure relief valve may be significantly affected by the service environment.

NR Series



Ordering Information

Part Number	Seat Material	Inlet Connections (M.NPT) Inches (mm)	"B" Inches (mm)	"C" Inches (mm)	Orifice Size Inches (mm)	Factory Pressure Setting		Pipe-Away Adapter
						psig	barg	
NR9432F022	Fluorosilicone	¼" (6.35)	2.60" (66.04)	⅞" (22.35)	.062 (1.57)	22	1.51	B-9412-2
NR9432F050						50	3.44	
NR9432F100						100	6.89	
NR9432T230	PTFE					230	15.85	
NR9432T250						250	17.23	
NR9432T300						300	20.68	
NR9432T350						350	24.13	
NR9432T360						360	24.82	

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Right Angle Relief Valves
NG900 Series

Application

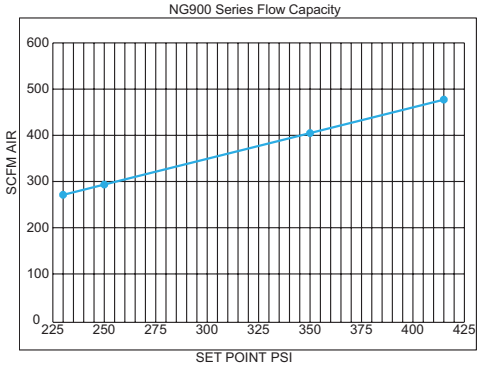
The NG900 series is designed specifically to avoid over-pressurization in LNG fuel tank applications and LNG installations. The NG900 Series is also compatible with oxygen, nitrogen, argon, helium, and hydrogen. These valves open and close at preset pressures to ensure reliable performance at cryogenic temperatures.

Features

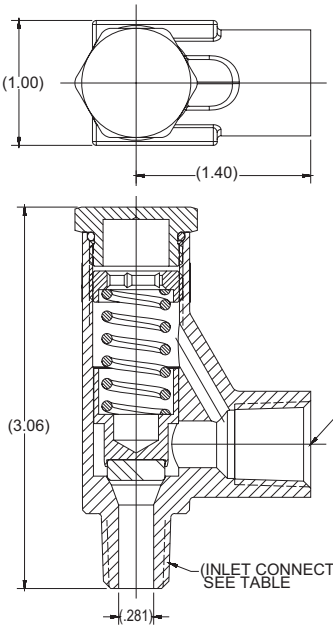
- Optional pull lever for manual override
- 100% Factory tested
- Temperature range -320ºF to +196ºF (-196ºC to +74ºC)
- Designed in accordance with & approved by ECE R110
- Approved by PED and TPED

Materials

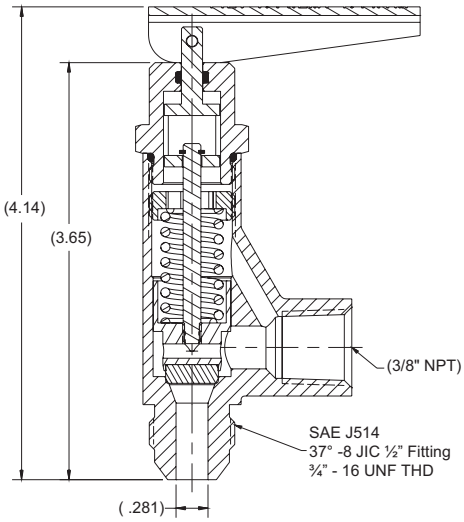
Spring Pin	Stainless Steel
Handle	Stainless Steel
O-rings	Fluorosilicone
Connector	Brass
Stem	Stainless Steel
Bonnet	Brass
Seat Disc	PTFE
Spring	Stainless Steel
Adjusting Screw	Stainless Steel
Body	Brass
Poppet	Brass



NG9002T



NG9008M



WARNING:

Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage. The useful safe service life of a pressure relief valve may be significantly affected by the service environment.

Ordering Information

Part Number	Inlet Connection	Outlet Connection	Manual Override	Pressure setting	
				psig	barg
NG9002T022	¼" MNPT (6.35 mm)	⅜" FNPT (9.65 mm)	No	22	1.52
NG9002T058				58	4.0
NG9002T230				230	15.85
NG9002T250				250	17.23
NG9002T275				275	18.96
NG9002T350				350	24.13
NG9002T415				415	28.61
NG9003T230	⅜" MNPT (9.65 mm)			230	15.85
NG9003T250				250	17.23
NG9003T350				350	24.13
NG9003T415				415	28.61
NG9008M230	SAE J514 (37˚-8JIC ½" fitting) (¾"-16 UNF thread male)		Yes	230	15.85
NG9008M250				250	17.23
NG9008M280				280	19.30
NG9008M350				350	24.13
NG9008M415				415	28.61

*Contact your sales representative for additional settings.

Cryogenic Gas Relief Valves, ASME B-19434B Series

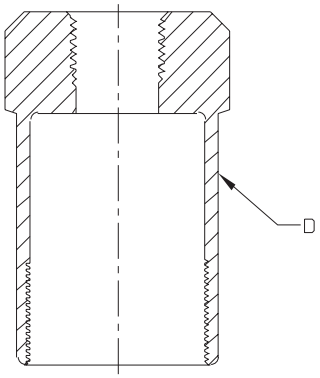
Application

The B-19434B Series relief valves are suitable for use with oxygen and non corrosive industrial gases, such as nitrogen, argon and helium.

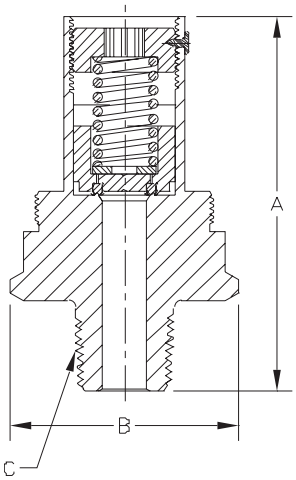
REGO 10 YEAR WARRANTY

Features

- The B-19434B design permits the valve to open slightly to relieve moderately excessive pressure
- When the pressure increases beyond a predetermined point, the valve opens to its full discharge capacity in order to quickly reduce excess pressure
- Pipe-away adapter for venting gas to the outdoors is available (Sold Separately)
- ASME rated, certified
- Cleaned for use in oxygen service per CGA G-4.1
- Bubble tight at 95% of set pressure
- Full flow at 110% of set pressure
- Setpoint tolerance is ± 3% of the set pressure or ± 2 psig whichever is greater
- Rated for gas service only
- 100% factory tested
- Temperature range: -60º to 165º F (-51º - 74º C)



B-19434B Series



Materials

Body ..... Brass
Spring ..... Stainless Steel
Seat Retainer..... Brass
Seat Disc (B-19434B Series)..... .Silicone
Pipe-Away Adapter ..... Brass

WARNING: Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage. The useful safe service life of a pressure relief valve may be significantly affected by the service environment.

Ordering Information

Part Number	Pressure Setting	ASME Relief Capacity (CFM/Air)	Height A Inches (mm)	Width B Inches (mm)	Inlet Connection (M.NPT) C Inches (mm)	Pipe-Away Adapter Part Number D
B-19434B235	235 psig (16.2 barg)	476	2 15/16" (74.67)	1¾" (44.45)	½" (12.7)	*B-19434-5 ½" F.NPT Outlet (12.70 mm)
B-19434B250	250 psig (17.2 barg)	505				
B-19434B300	300 psig (20.7 barg)	601				
B-19434B350	350 psig (24.1 barg)	711				
B-19434B375	375 psig (25.9 barg)	760				

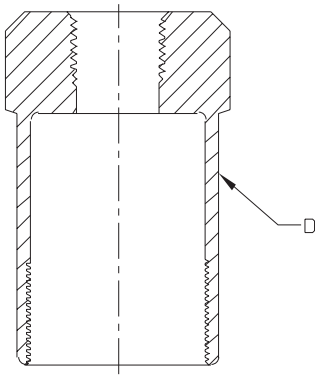
* Pipe Away Adapter is sold separately.
** Contact factory for additional settings.

Cryogenic Gas Relief Valves, ASME C-19434B Series

Application

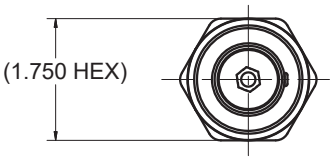
The C-19434B series relief valves are designed for use in carbon dioxide service.

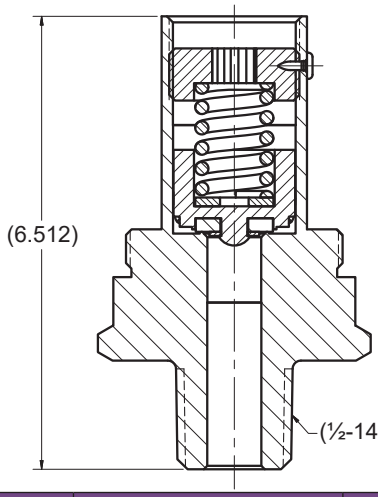
REGO 10 YEAR WARRANTY



Features

- The C-19434B design permits the valve to open slightly to relieve moderately excessive pressure
- When the pressure increases beyond a predetermined point, the valve opens to its full discharge capacity in order to quickly reduce excess pressure
- Pipe-away adapter for venting gas to the outdoors is available
- ASME rated, certified
- Cleaned for use in oxygen service per CGA G-4.1
- Bubble tight at 95% of set pressure
- Full flow at 110% of set pressure
- Setpoint tolerance is ± 3% of the set pressure or ± 2 psig whichever is greater
- Repeatable performance guaranteed by well-proven seat design used in many other RegO relief valves for many years.
- Rated for gas service only
- 100% factory tested
- Temperature range: -40º to 165º F (-40º - 74º C)





C-19434B Series

Materials

Body ..... Brass
Spring ..... Stainless Steel
Seat Retainer..... Brass
Seat Disc C-19434B Series..... EPDM Synthetic Rubber
Pipe-Away Adapter ..... Brass

WARNING: Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage. The useful safe service life of a pressure relief valve may be significantly affected by the service environment.

Ordering Information

Part Number	Pressure Setting (psig)	ASME Relief Capacity (CFM/Air)	Height A Inches (mm)	Width B Inches (mm)	Inlet Connection (M.NPT) C Inches (mm)	Pipe-Away Adapter Part Number D
C-19434B235	235 psig (16.2 barg)	476	2 15/16" (74.67)	1¾" (44.45)	½" (12.7)	*B-19434-6 1" F.NPT Outlet (25.40 mm)
C-19434B250	250 psig (17.2 barg)	505				
C-19434B280	280 psig (19.3 barg)	555				
C-19434B285	285 psig (19.6 barg)	579				
C-19434B300	300 psig (20.7 barg)	601				
C-19434B325	325 psig (22.4 barg)	649				
C-19434B335	335 psig (23.1 barg)	668				
C-19434B350	350 psig (24.1 barg)	711				
C-19434B375	375 psig (25.9 barg)	760				

* Pipe Away Adapter is sold separately.
** Contact factory for additional settings.

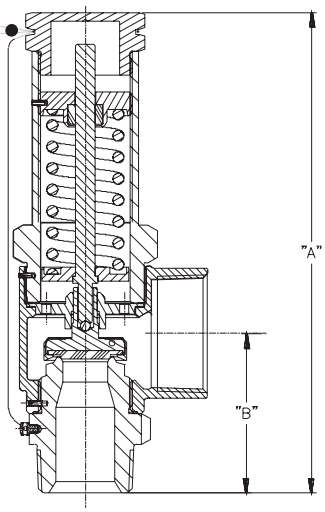
Angle Relief Valve, ASME
AR4100 Series

Application

The ASME approved 90° relief valves AR Series, provide precise relief set points which protect cryogenic vessels and piping systems for over-pressurization.

Features

- High flow rates are approved by rigorous testing to ASME BVPC Code Section VIII
- The ninety degree configuration provides relief of gases eliminating direct flow through the spring
- The ninety degree configuration allows easy incorporation to plumbing for output containment
- Bubble tight seat provides 100% shut off when reseating or static mode
- A variety of inlets and pressure settings assure adherence to application requirements
- Temperature Range: -320°F (-196°C) to +165°F (+74°C)
- Cleaned for Oxygen Service per CGA G-4.1
- 100% Factory Tested
- Certifications are listed in table below



AR4100 Series

REGO 10 YEAR WARRANTY

Materials

Body	Bronze ASTM B61
Upper Body	Stainless Steel ASTM A582
Seat & Stem	Brass ASTM B16
Poppet Guide	Brass ASTM B16
Spring Retainer	Brass ASTM B16
Adjusting Screw	Brass ASTM B16
Cap	Brass ASTM B16
Ball	Stainless Steel
Gasket	Copper ASTM B152-17
Spring	Stainless Steel ASTM A313
Seal	PCTFE When ≥ 75 PSI, Fluorosilicone When < 75 PSI

Ordering Information

Fill in the blanks with options below.

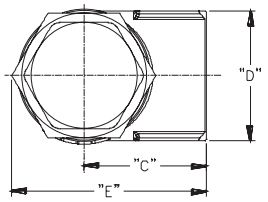
Example: AR4106A300

AR	4106	A	300
Angle Relief	Size	Cert Requirements and Pressure Unit	Set Pressure

Set Pressure	Size
A,N - psig	04=½"
B - barg	06=¾"
	08=1"
	12=1½"

Setpoint tolerance is ± 3% of the set pressure or ± 2 psig whichever is greater.

Note: For psig pressure settings, the part numbers end in A
For barg pressure settings, the part numbers end in B



Air Capacity= m x P
Where:
m = Slope Value
P= Pressure, Absolute @10% overpressure.

Example: Pressure relief valve, ½" inlet x 1" outlet, at 80 psig. Part number AR4104A080.
m = 1.98
P= 80 psig
Air Capacity= 1.4 x [(80psi x 1.10) +14.7]
Air Capacity= 203 SCFM (air)

Flow Performance

AR4104A set pressures 75 - 566 capacity is 1.98 SCFM of air per psig of flow pressure.
AR4106A set pressures 75 - 566 capacity is 2.08 SCFM of air per psig of flow pressure.
AR4108A set pressures 29 - 425 capacity is 4.15 SCFM of air per psig of flow pressure.
AR4112A set pressures 80 - 425 capacity is 7.86 SCFM of air per psig of flow pressure.

Flow pressure per ASME is 10% above set pressure or +3 psig (0.2 barg), whichever is greater.

Ordering Information

Part Number	Inlet Inches (mm)	Outlet Inches (mm)	Ends	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	E Inches (mm)	Set Pressure	ASME Flow Capacity (Air) at 110% Set Pressure	Weight Lbs (Kg)
AR4104A	½" (15)	1" (25)	Thread NPT	6.03" (153.16)	1.97" (50.04)	1.63" (41.40)	1.63" (41.40)	2.49" (63.25)	250 psig	573 SCFM *	2.75 (1.25)
AR4104B									17.23 barg*	973 m³/hr	
AR4106A	¾" (20)		Thread NPT						250 psig*	603 SCFM	
AR4106B									17.23 barg*	1,024.5 m³/hr	
AR4108A	1" (25)	1¼" (32)	Thread NPT	6.88" (174.75)	2.37" (60.20)	2.00" (50.80)	1.90" (48.26	3.01" (76.45)	250 psig*	1,202 SCFM	3.75 (1.70)
AR4108B									17.23 barg*	2402 m³/hr	
AR4112A	1½" (40)	2" (50)	Thread NPT	9.64" (244.86)	3.20" (81.28)	2.45" (62.23)	2.60" (66.04)	3.89" (98.81)	250 psig*	2,277 SCFM	8.00 (3.63)
AR4112B									17.23 barg*	3869 m³/hr	

*Various pressure settings are available within listed ranges
Note: For Non-ASME stamp, the part numbers are: AR4104N, AR4106N, AR4108N, AR4112N.

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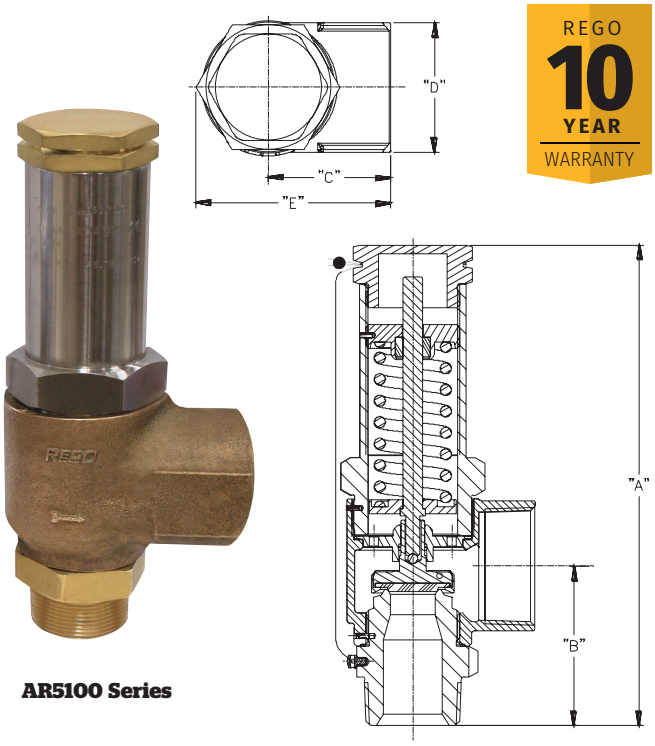
Angle Relief Valve, ASME
AR5100 Series

Application
The ASME approved 90° relief valves AR Series, provide precise relief set points which protect cryogenic vessels and piping systems for over-pressurization.

Features
- High flow rates are approved by rigorous testing to ASME BVPC Code Section VIII
- The ninety degree configuration provides relief of gases eliminating direct flow through the spring
- The ninety degree configuration allows easy incorporation to plumbing for output containment
- Bubble tight seat provides 100% shut off when reseating or static mode
- A variety of inlets and pressure settings assure adherence to application requirements
- Temperature Range: -320°F (-196°C) to +165°F (+74°C)
- Cleaned for Oxygen Service per CGA G-4.1
- 100% Factory Tested
- Certifications are listed in table below

REGO 10 YEAR WARRANTY



AR5100 Series

Materials
Body ..... Bronze ASTM B61
Upper Body..... Stainless Steel ASTM A582
Seat & Stem ..... Brass ASTM B16
Poppet Guide..... Brass ASTM B16
Spring Retainer..... Brass ASTM B16
Adjusting Screw..... Brass ASTM B16
Cap ..... Brass ASTM B16
Ball..... Stainless Steel
Gasket ..... Copper ASTM B152-17
Spring ..... Stainless Steel ASTM A313
Seal .....PCTFE When ≥ 75 PSI, Fluorosilicone When < 75 PSI

Ordering Information
Fill in the blanks with options below.

Example: AR5106A300

AR	5106	A	300
Angle Relief	Size	Cert Requirements and Pressure Unit	Set Pressure

Set Pressure	Size
A,N - psig	04=½"
B - barg	06=¾"
	08=1"
	12=1½"

Setpoint tolerance is ± 3% of the set pressure or ± 2 psig whichever is greater.

Note: For psig pressure settings, the part numbers end in A
For barg pressure settings, the part numbers end in B

Air Capacity= m x P
Where:
m = Slope Value
P= Pressure, Absolute @10% overpressure.

Example: Pressure relief valve, ½" inlet x 1" outlet, at 80 psig. Part number AR5104A080.
m = 1.98
P= 80 psig
Air Capacity= 1.4 x [(80psi x 1.10) +14.7]
Air Capacity= 203 SCFM (air)

Flow Performance
AR5104A set pressures 75 - 500 capacity is 1.98 SCFM of air per psig of flow pressure.
AR5106A set pressures 75 - 400 capacity is 2.08 SCFM of air per psig of flow pressure.
AR5108A set pressures 29 - 425 capacity is 4.15 SCFM of air per psig of flow pressure.
AR5112A set pressures 80 - 425 capacity is 7.86 SCFM of air per psig of flow pressure.
Flow pressure per ASME is 10% above set pressure or +3 psig (0.2 barg), whichever is greater.

Ordering Information

Part Number	Inlet Inches (mm)	Outlet Inches (mm)	Ends	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	E Inches (mm)	Set Pressure	ASME Flow Capacity (Air) at 110% Set Pressure	Weight Lbs (Kg)
AR5104A	½" (15)	1" (25)	Thread BSP	6.03" (153.16)	1.97" (50.04)	1.63" (41.40)	1.63" (41.40)	2.49" (63.25)	250 psig*	573 SCFM	2.75 (1.25)
AR5104B									17.23 barg*	973 m³/hr	
AR5106A	¾" (20)		Thread BSP						250 psig*	603 SCFM	
AR5106B									17.23 barg*	1,024.5 m³/hr	
AR5108A	1" (25)	1¼" (32)	Thread BSP	6.88" (174.75)	2.37" (60.20)	2.00" (50.80)	1.90" (48.26	3.01" (76.45)	250 psig*	1,202 SCFM	3.75 (1.70)
AR5108B									17.23 barg*	2,402 m³/hr	
AR5112A	1½" (40)	2" (50)	Thread BSP	9.64" (244.86)	3.20" (81.28)	2.45" (62.23)	2.60" (66.04)	3.89" (98.81)	250 psig*	2,277 SCFM	8.00 (3.63)
AR5112B									17.23 barg*	3869 m³/hr	

*Various pressure settings are available within listed ranges
Note: For Non-ASME stamp, the part numbers are: AR5104N, AR5106N, AR5108N, AR5112N.

Pressure Setting and Flow Data
AR Series

Pressure Setting and Flow Data AR Series SCFM (air)						
Pressure Setting psig	barg	MPAG	AR4104A AR5104A	AR4106A AR5106A	AR4108A AR5108A	AR4112A AR5112A
75	5.2	0.52	192	202	403	849
80	5.5	0.55	203	214	426	897
90	6.2	0.62	225	236	472	993
100	6.9	0.69	247	259	518	1089
110	7.6	0.76	269	282	563	1185
120	8.3	0.83	290	305	609	1281
130	9.0	0.90	312	328	654	1377
140	9.7	0.97	334	351	700	1473
150	10.3	1.03	356	374	746	1569
160	11.0	1.10	378	397	791	1665
170	11.7	1.17	399	420	837	1762
180	12.4	1.24	421	442	883	1858
190	13.1	1.31	443	465	928	1954
200	13.8	1.38	465	488	974	2050
210	14.5	1.45	486	511	1020	2146
220	15.2	1.52	508	534	1065	2242
230	15.9	1.59	530	557	1111	2338
240	16.5	1.65	552	580	1157	2434
250	17.2	17.2	574	603	1202	2530
260	17.9	1.79	595	625	1248	2626
270	18.6	1.86	617	648	1294	2722
280	19.3	1.93	639	671	1339	2818
290	20.0	2.00	661	694	1385	2914
300	20.7	2.07	683	717	1431	3010
310	21.4	2.14	704	740	1476	3106
320	22.1	2.21	726	763	1522	3203
330	22.8	2.28	748	786	1567	3299
340	23.4	2.34	770	808	1613	3395
350	24.1	2.41	791	831	1659	3491
360	24.8	2.48	813	854	1704	3587
370	25.5	2.55	835	877	1750	3683
380	26.2	2.62	857	900	1796	3779
390	26.9	2.69	879	923	1841	3875
400	27.6	2.76	900	946	1887	3971
410	28.3	2.83	922		1933	4067
420	29.0	2.90	944		1978	4163
425	29.3	2.93	955		2001	4211
430	29.3	2.93	966			
440	30.3	3.03	987			
450	31.0	3.10	1009			
460	31.7	3.17	1031			
470	32.4	3.24	1053			
480	33.1	3.31	1075			
490	33.8	3.38	1096			
500	34.5	3.45	1118			

Pressure Setting and Flow Data (cont.)
AR Series

Pressure Setting and Flow Data AR Series SCFM (air)						
PSIG	BARG	MPAG	"AR4104N AR5104N"	"AR4106N AR5106N"	"AR4108N AR5108N"	"AR4112N AR5112N"
75	5.2	0.52	214	225	448	849
80	5.5	0.55	226	237	473	897
90	6.2	0.62	250	263	524	993
100	6.9	0.69	274	288	575	1089
110	7.6	0.76	299	314	626	1185
120	8.3	0.83	323	339	676	1281
130	9.0	0.90	347	364	727	1377
140	9.7	0.97	371	390	778	1473
150	10.3	1.03	395	415	828	1569
160	11.0	1.10	420	441	879	1665
170	11.7	1.17	444	466	930	1762
180	12.4	1.24	468	492	981	1858
190	13.1	1.31	492	517	1031	1954
200	13.8	1.38	516	542	1082	2050
210	14.5	1.45	541	568	1133	2146
220	15.2	1.52	565	593	1183	2242
230	15.9	1.59	589	619	1234	2338
240	16.5	1.65	613	644	1285	2434
250	17.2	1.72	637	670	1336	2530
260	17.9	1.79	662	695	1386	2626
270	18.6	1.86	686	720	1437	2722
280	19.3	1.93	710	746	1488	2818
290	20.0	2.00	734	771	1538	2914
300	20.7	2.07	758	797	1589	3010
310	21.4	2.14	783	822	1640	3106
320	22.1	2.21	807	847	1690	3203
330	22.8	2.28	831	873	1741	3299
340	23.4	2.34	855	898	1792	3395
350	24.1	2.41	879	924	1843	3491
360	24.8	2.48	904	949	1893	3587
370	25.5	2.55	928	975	1944	3683
380	26.2	2.62	952	1000	1995	3779
390	26.9	2.69	976	1025	2045	3875
400	27.6	2.76	1000	1051	2096	3971
410	28.3	2.83	1025	1076	2147	4067
420	29.0	2.90	1049	1102	2198	4163
425	29.3	2.93	1061	1114	2223	4211

*Table continued on following page.

Pressure Setting and Flow Data (cont.)
AR Series

Pressure Setting and Flow Data AR Series SCFM (air) (cont.)				
PSIG	BARG	MPAG	"AR4104N AR5104N"	"AR4106N AR5106N"
430	29.6	2.96	1073	1127
440	30.3	3.03	1097	1153
450	31.0	3.10	1121	1178
460	31.7	3.17	1146	1203
470	32.4	3.24	1170	1229
480	33.1	3.31	1194	1254
490	33.8	3.38	1218	1280
500	34.5	3.45	1242	1305
510	35.2	3.52	1267	1331
520	35.9	3.59	1291	1356
530	36.5	3.65	1315	1381
540	37.2	3.72	1339	1407
550	37.9	3.79	1363	1432
566	39.0	3.90	1402	1473

*Table a continuation from previous page.

Certification Table					
Valve Series	ASME	CRN	TPED	PED	Set Pressure Definition
AR4104A	Yes	Coming Soon	Coming Soon	Coming Soon	Initial Audible Discharge
AR4104B	Yes	Coming Soon	Yes	Yes	Start to Leak
AR4106A	Yes	Coming Soon	Coming Soon	Coming Soon	Initial Audible Discharge
AR4106B	Yes	Coming Soon	Yes	Yes	Start to Leak
AR4108A	Yes	Coming Soon	Coming Soon	Coming Soon	Initial Audible Discharge
AR4108B	Yes	Coming Soon	Yes	Yes	Start to Leak
AR4112A,B	Yes	Yes	Yes	Yes	Start to Leak
AR4104N	No	No	No	No	Initial Audible Discharge
AR4106N	No	No	No	No	Initial Audible Discharge
AR4108N	No	No	No	No	Initial Audible Discharge
AR4112N	No	No	No	No	Start to Leak

LNG Pressure Relief Valve
NG9632 Series

Application

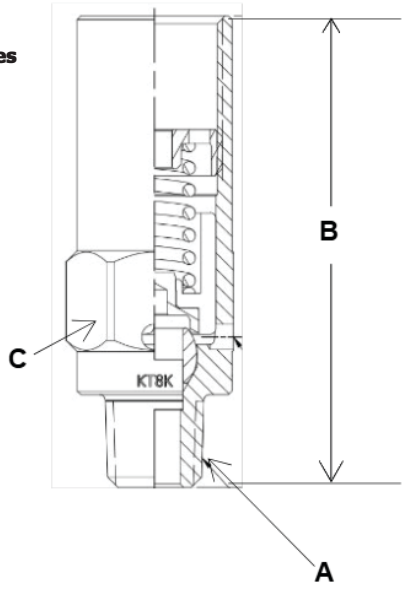
Designed specifically for LNG Heavy Duty Vehicle and other applications prone to excess moisture intrusion, RegO's NG9632 series Pressure Relief Valve (PRV) reduces the chance of "ice-blocking", or the seat freezing up, to ensure protection of the vessel and personnel even under the most extreme conditions.

RE GO 18 MONTH WARRANTY

Features

- Unique design uses a ball as the seat to ensure a good contact surface; the ball helps cover seat disc to prevent moisture deposit on the seat
- High surface finish stainless steel ball reduces chance of ice-block formation while cryogenic gas cooling down moisture in ambient air
- Temperature range: -320oF to + 185oF (-196oC to + 185oC)
- Start to discharge +/-3% (PSIG)
- Retreat Pressure: >90% of Setpoint (PSIG)
- Flow capacity is 0.783 SCFM of air per PSIG of flow pressure (refer to PRV9400 series pressure setting and flow data table)
- Available with or without weephole (add "P" for no weep hole - see Ordering Information below)
- Designed in accordance with & approved by ECE R110
- Cleaned and packaged for oxygen service per CGA G-4.1
- Silicone caps also sold separately to reduce chance of water intrusion into the valve under even more severe conditions
- Currently available in a 1/4" NPT inlet size; other options possible - contact RegO with your specific needs

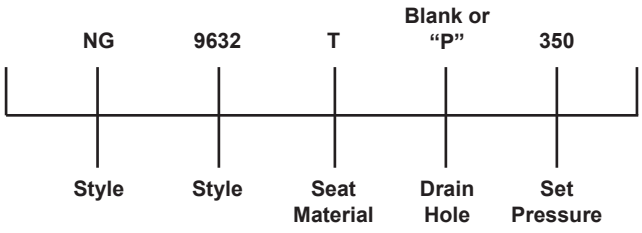
NG9632 Series



Materials

Body	ASTM B16 C36000
Ball	304 SSTL S30400
Seat Disc	PTFE Filled Mineral Fiber
Piston	ASTM B16 C36000
Spring	17-7PH SSTL S17700
Adjusting Screw	ASTM B16 C36000

Ordering Information



This example part number indicates a 1/4" MNPT NG style brass relief valve with PTFE seat, seat at 350 PSIG with drain hole.

WARNING: Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain relief valves could result in personal injuries or property damage. The useful safe service life of a pressure relief valve may be significantly affected by the service environment.

Ordering Information

Style	Size	Inlet M.NPT A Inches (mm)	Pressure Setting Range PSIG (BARG)	Height B Inches (mm)	Wrench Hex C (mm)	Orifice Size Sq. Inch (mm)	Pipeaway Adapter P/N	Pipeaway Outlet F.NPT. Inches (mm)
NG	9632	1/4" (6.35)	150 - 450 (10.3 - 31.0)	2.6 (66.0)	7/8" (22.2)	0.062 (40)	B-9412-2	3/8" (9.65)

RegO® - Relief Device Diverter (3-Way) Valve
DR6100 Series

Application

The DR Diverter Valve Series provides a simple solution for the isolation of pressure relief devices during routine change out of a relief valve and burst discs without evacuating the vessel. Excellent for protecting bulk liquid vessels, transport trailers, industrial pipelines, and LNG systems.

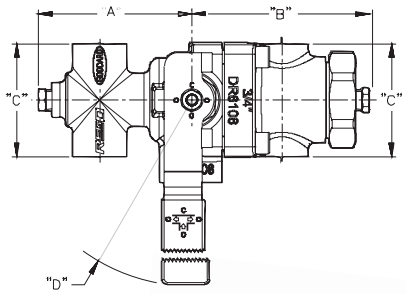
REGO 10 YEAR WARRANTY

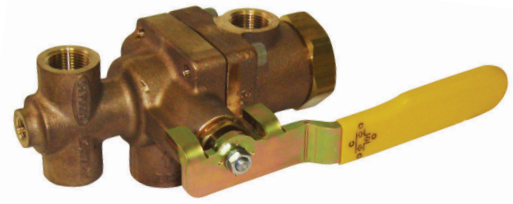
Features

- High flow rates complement our AR series pressure relief valves.
- Valve side selection is accomplished with a heavy duty control arm clearly labeled for positive isolation
- RegO® needle valves accessorize for easy bleed of gas before removing pressure relief devices
- Fitted with threaded top Relief Valve ports and bottom Burst Disk connections
- Pressure Rating: 600 psig (41.37 barg) MAWP
- Temperature Rating: -320°F (-196°C) to +165°F (+74°C).
- 100% Factory tested
- Oxygen cleaned per CGA G-4.1
- PED Certified
- **Stainless Steel inlet stub available, add the letter P in the end of the part number to request this option.**

Materials

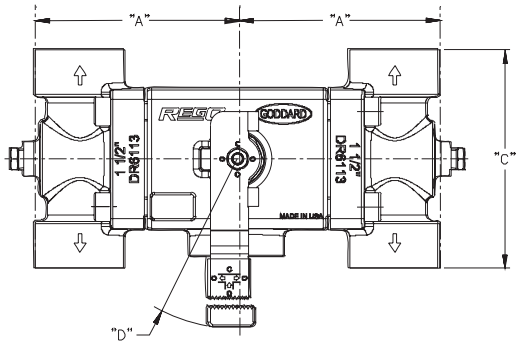
Bodies..... Bronze ASTM B61 UNS C92200
Bushing, End Cap..... Brass B16 C36000
Seat Rings..... PCTFE ASTM D1430
Gasket..... PTFE
Ball..... 316 Stainless Steel
Lever..... Cadmium Plated Steel
Packing..... PTFE
Stem..... Stainless Steel ASTM A582 UNS S30300





DR6108

DR6112P



DR6112 & DR6113

Ordering Information

Part Number	Inlet Inches (DN)	Outlet Inches (DN)	Connection Type	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	Height Inches (mm)	Weight Lbs (Kg)	Open Port	C_V (Kv)
DR6108	1" (25)	¾" (20)	Thread NPT	4" (101.7)	4.65" (118.3)	2.94" (74.90)	R 7.36" (187.1)	5.18" (63.25)	10 (4.50)	Right	13.3 (11.50)
										Left	
										Both	21.6 (18.7)
DR6112	1½" (40)	1" (25)		4.12" (104.6)	-	5.70 (145.0)	R 7.36" (187.1)	5.770" (146.6)	28 (12.70)	Right	18.8 (16.26)
										Left	
										Both	37 (32.00)
DR6113		1½" (40)			-	5.70 (145.0)	R 7.36" (187.1)	5.770" (146.6)	30 (13.60)	Right	22.6 (19.54)
										Left	
										Both	40.2 (34.77)

RegO® - Bulk Vessel Safety Assembly – Relief Valve & Diverter
DA6200 Series

Application

RegO® provides a complete unitized solution for pressure relief devices assembled in a factory setting ready for attachment to cryogenic bulk tanks. Ideal for OEM applications where pre-fabricated assemblies are favored to streamline construction. Excellent for protecting bulk liquid vessels, transport trailers, industrial pipelines and LNG systems.

REGO 10 YEAR WARRANTY

Features

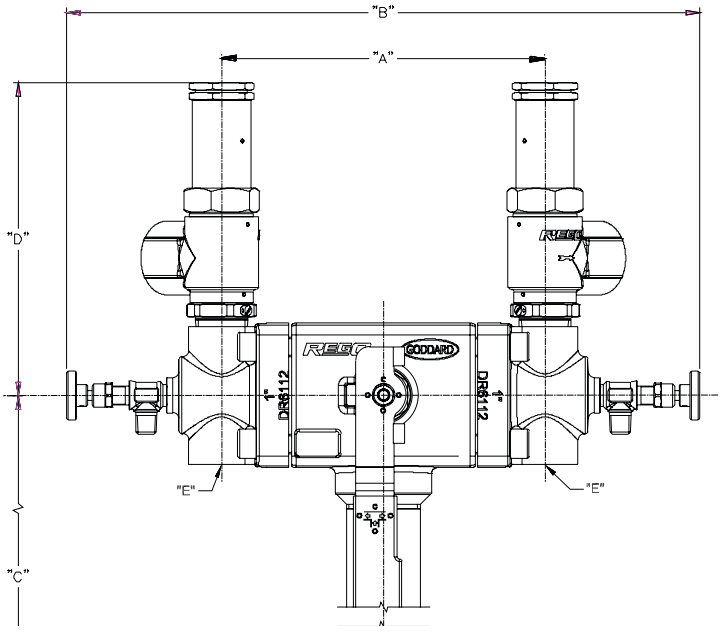
- High flow rates complement our AR series pressure relief valves and burst discs (Burst discs not included)
- Valve side selection is accomplished with a heavy duty control arm clearly labeled for positive isolation
- RegO® needle valves accessorize for easy bleed of gas before removing pressure relief devices
- Inlet pipe factory installed for easy assembly
- Pressure Rating: 600 psig (41.37 barg) MAWP
- Temperature Rating: -320°F (-196°C) to +165°F (+74°C)
- Oxygen cleaned per CGA G-4.1
- Packaged ready for installation
- PED Certified CE
- **Copper inlet stubs available for DA6206CA.**

Diverter Materials

Bodies	Bronze ASTM B61 UNS C92200
Bushing, End Cap	Brass B16 C36000
Seat Rings	PCTFE ASTM D1430
Gasket	PTFE
Ball	316 Stainless Steel
Lever	Cadmium Plated Steel
Packing	PTFE
Stem	Stainless Steel ASTM A582 UNS S30300

Relief Valve Materials

Body	Bronze ASTM B61
Upper Body	Stainless Steel ASTM A582
Seat & Stem	Brass ASTM B16
Poppet Guide	Brass ASTM B16
Spring Retainer	Brass ASTM B16
Adjusting Screw	Brass ASTM B16
Cap	Brass ASTM B16
Ball	Stainless Steel
Gasket	Copper ASTM B152-17
Spring	Stainless Steel ASTM A313
Seal	PCTFE for < 75 psig, Fluorosilicone for ≥ 75 psig



Ordering Information

Part Number*	Inlet Inches (DN)	Outlet Inches (DN)	Connection Type	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	E Inches (mm)
DA6206AXXX	1" (25)	¾" (20)	Thread NPT	4.76" (120.9)	13.25" (336.55)	9.75" (247.7)	7.00" (177.8)	¾" NPT (19.0)
DA6208AXXX	1½" (40)	1" (25)		8.33" (211.6)	16.30" (414)	16.47" (418.34)	8.06" (204.7)	1" NPT (25.0)

* Include pressure setting in part number.

RegO® Stainless Steel Relief Device Diverter (3-Way) Valve
DV4108 Series

Application

The DV4108 Diverter Valve Series provides a lightweight, simplified solution for the isolation of pressure relief valves during testing and change out of relief valves and burst discs without requiring evacuation of the vessel and guaranteeing that one port will be available to work during the operation. This all stainless steel diverter valve is ideal for use with oxygen, nitrogen, krypton, carbon dioxide, nitrous oxide, dinitrogen monoxide, carbon oxide, methane, ethane, ethylene, argon, and LNG.

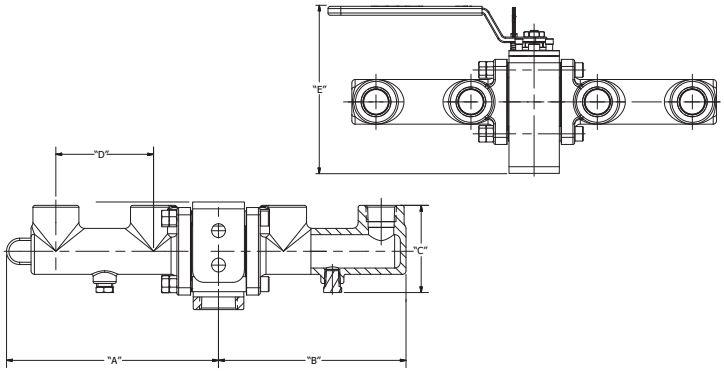
REGO 10 YEAR WARRANTY

Features

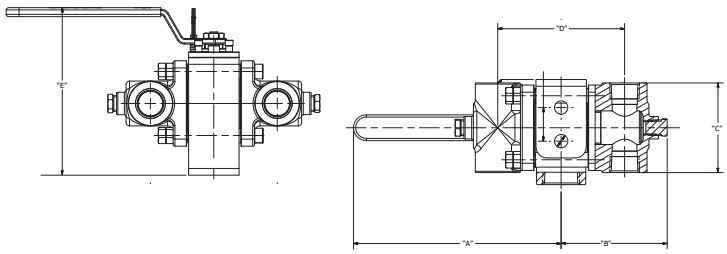
- High flow rates complement the RegO AR and PRV series pressure relief valves
- Outlet ports sufficiently spaced to allow AR and PRV series relief valves as well as burst discs to be easily installed and removed
- Compact, lightweight design
- Unique resilient seat design with Dyneon™ TFM 1600 material provides smooth operation and bubble tight seal in cryogenic conditions
- Special seal design using proven Kold-Seal technology, live loaded PTFE in conjunction with wave springs and added sealing protection prevent internal and external leakage (EN 1626:2008 compliant)
- Clearly labeled, heavy duty lever arm and locking pin provide positive isolation verification
- Various connection and configuration options available
- Bracket included for easy installation
- Service: Liquefied and vaporized atmospheric gases, LNG
- Temperature rating: -320°F to +150°F (-196°C to +65°C)
- Pressure rating: Cold, non-shock, 720 PSIG (50 BAR) Class 300 (PN 50)
- 100% factory tested; each valve is individually bagged and boxed to arrive in factory new condition until installation
- Cleaned and packaged for oxygen service per CGA G-4.1

PED Certified CE

DV4108SU Series



DV4108SM Series



Materials

Body ..... 316 Stainless Steel ASTM A351-CF-8M (DIN 1.4408)
Ball.....316L Stainless Steel ASTM A276 (DIN 1.4006)
Seat ..... Dyneon TFM 1600
End caps.....304 Stainless Steel ASTM A743 (DIN 1.4027)
Wave springs.....Stainless Steel ASTM A313 (DIN 1.4544)
Wave spring washers 304 Stainless Steel ASTM A182 (DIN 1.5415)
Packing..... Live Loaded PTFE
Stem .....316L Stainless Steel ASTM A276 (DIN 1.4006)
Lever.....304 Stainless Steel ASTM A182 (DIN 1.5415)
Bracket .....304 Stainless Steel ASTM A182 (DIN 1.5415)

Ordering Information

Part Number	Inlet Inches (mm)	Outlet Inches (mm)	Outlet Connection Type	Outlet Port Orientation	Bleeder Connection	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	E Inches (mm)	Open Port	Cv (Kv)
DV4108SU04	1 (DN25)	½ (DN15)	Thread NPTF	4 ports, all opposite of Inlet	1/4" NPTF, same side as inlet	7.29 (185)	6.42 (163)	2.98 (76)	3.34 (85)	5.90 (150)	One Side	12.0 (10.4)
											Both Sides	21.7 (18.8)
DV4108SU06		¾ (DN20)									One Side	13.3 (11.5)
											Both Sides	22.5 (19.5)
DV4108SU08		1 (DN25)									One Side	16.0 (13.8)
											Both Sides	25.3 (21.9)
DV4108SM04		½ (DN15)		1 port up, 1 port down on each side	1/4" NPTF, 90° from inlet		3.72 (95)"	3.2 (80)	4.45 (113)		One Side	11.0 (9.5)
											Both Sides	20.0 (17.3)
DV4108SM06		¾ (DN20)									One Side	13.3 (ll.50)
											Both Sides	21.6 (18.7)
DV4108SM08		1 (DN25)									One Side	14.1 (12.2)
											Both Sides	23.2 (20.1)

Other outlet port orientation options available; please contact your Sales representative with inquiries.

100 RegO Dr. Elon, NC 27244 USA www.regoproducts.com

RegO® Stainless Steel Relief Device Diverter (3-Way) Valve DV4108SD Series for PRVs

Application

The DV4108 Diverter Valve Series provides a lightweight, simplified solution for the isolation of pressure relief valves during testing and change out of pressure relief valves and burst discs without requiring evacuation of the vessel and guaranteeing that one port will be available to work during the operation. This all stainless steel diverter valve is ideal for use with oxygen, nitrogen, krypton, carbon dioxide, nitrous oxide, dinitrogen monoxide, carbon oxide, methane, ethane, ethylene, argon, and LNG.

The DV4108SD Series has the inlet port in the upper position for the easy installation of the Micro-Bulk's relief pressure line, and the four-outlet port oriented at down position to avoid the humidity going into the PRVs and guarantee proper operation.

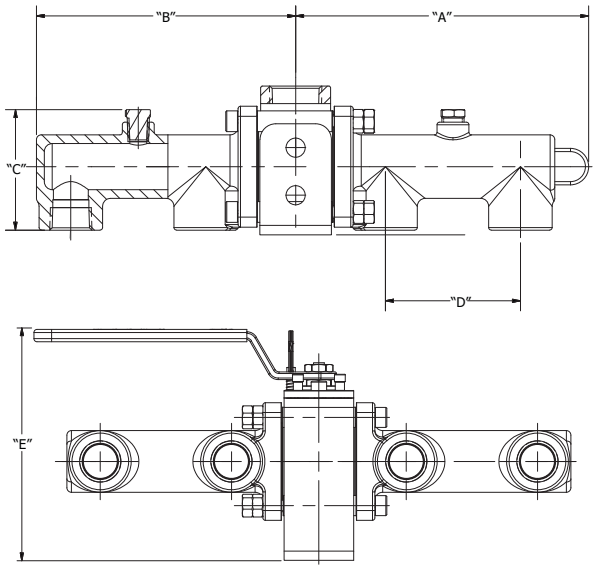
PED Certified CE

REGO 10 YEAR WARRANTY

DV4108SD04 Shown

Materials

Body ..... 316 Stainless Steel ASTM A351-CF-8M (DIN 1.4408)
Ball.....316L Stainless Steel ASTM A276 (DIN 1.4006)
Seat ..... Dyneon TFM 1600
End caps.....304 Stainless Steel ASTM A743 (DIN 1.4027)
Wave springs.....Stainless Steel ASTM A313 (DIN 1.4544)
Wave spring washers 304 Stainless Steel ASTM A182 (DIN 1.5415)
Packing..... Live Loaded PTFE
Stem .....316L Stainless Steel ASTM A276 (DIN 1.4006)
Lever.....304 Stainless Steel ASTM A182 (DIN 1.5415)
Bracket .....304 Stainless Steel ASTM A182 (DIN 1.5415)



Ordering Information

Part Number	Inlet Inches (mm)	Outlet Inches (mm)	End Connection Type	Outlet Port Orientation	Bleeder Port Orientation	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	E Inches (mm)	Open Port	Cv (Kv)
DV4108SD04	1" (DN25)	½ (DN15)	Thread NPTF	4 ports, all opposite of inlet	¼" NPTF, same side as inlet	7.29 (185)	6.42 (163)	2.98 (76)	3.34 (85)	5.90 (150)	One Side	12.0 (10.4)
											Both Side	21.7 (18.8)
DV4108SD06		¾" (DN20)									One Side	13.3 (11.5)
											Both Side	22.5 (19.5)
DV4108SD08		1" (DN25)									One Side	16.0 (13.8)
											Both Side	25.3 (21.9)

Other outlet port orientation options available; please contact your Sales representative with inquiries.

RegO® Stainless Steel Diverter (3-Way) Valve
DV4112 Series

Application

The **DV4112 Diverter Valve** series provides a lightweight, simplified solution for the isolation of pressure relief valves and burst discs without requiring evacuation of the vessel and guaranteeing that one port will be available to work during the operation. This all stainless steel diverter valve is ideal for use with cryogenic and gaseous oxygen, nitrogen, krypton, carbon dioxide, nitrous oxide, dinitrogen monoxide, carbon oxide, methane, ethane, ethylene, argon, and LNG.

Features

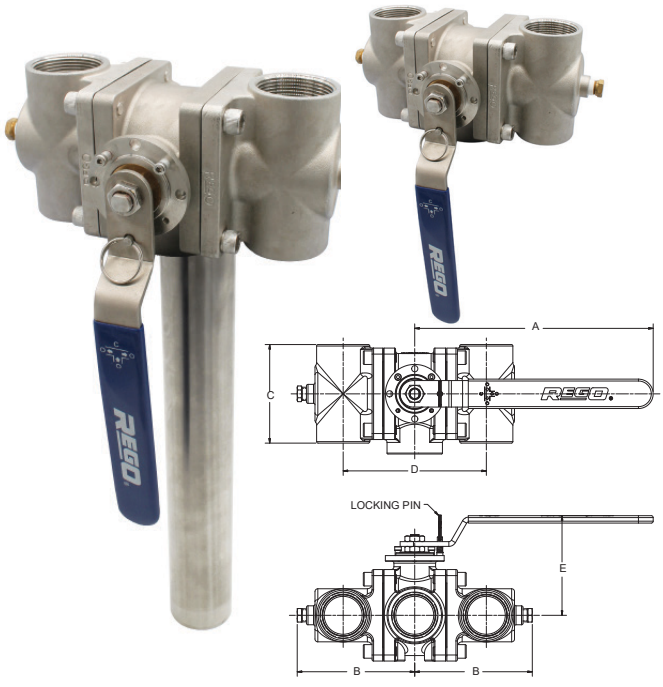
- Unique, resilient seat design with Dyneon™ TFM 1600 material provides smooth operation and bubble tight seal in cryogenic conditions.
- Special seal design using proven Kold-Seal technology, live loaded PTFE in conjunction with wave springs and added sealing protection prevent internal and external leakage (EN 1626:2008 compliant)
- Clearly labeled, heavy duty lever arm and locking pin provide positive isolation verification
- Various connection and configuration options available
- Temperature rating: -320°F + 150°F (-196°C + 65°C)
- Pressure rating: Cold, non-shock, 720 PSIG (50 BAR) Class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1
- Outlet ports sufficiently spaced to allow AR Series relief valves as well as burst discs to be easily installed and removed
- Compact, lightweight design
- Threaded body for easy diverter installation
- Welded pipe extension inlet option available*
- 100% factory tested; each valve is individually bagged and boxed to arrive in factory new condition until installation
- Vent port in each chamber for easy and safe maintenance process
- Relief valves and burst discs not included

CRN REGISTERED 0C23921.2

REGO 10 YEAR WARRANTY

REGO 100% TESTED ★

CLEANED FOR OXYGEN SERVICE O_2 CGA G-4.1



DV4112 Series

Materials

Body ..... 316 Stainless Steel ASTM A351-CF-8M (DIN 1.4408)
Stem ..... 316L Stainless Steel ASTM A276 (DIN 1.4006)
Seat ..... Dyneon TFM 1600
End Caps ..... 304 Stainless Steel ASTM A743 (DIN 1.4027)
Wave Springs ..... Stainless Steel ASTM A313 (DIN 1.4544)
Wave Spring Washers 304 Stainless Steel ASTM A276(DIN 1.5415)
Ball ..... 316L Stainless Steel ASTM A276 (DIN 1.4006)
Packing ..... Live Loaded PTFE
Lever ..... 304 Stainless Steel ASTM A182 (DIN 1.5415)

Example: DV4112SM12S12BJ

M	12	S	12	B	J
Outlet Port Configuration Style	Outlet Port Size	Inlet Connection	Inlet Pipe Size*	Inlet Pipe Schedule	Inlet Pipe Length
M=1 outlet up, one down each side	**08**=1" **12**=1-1/2"	**Blank**=NPT **S**=Socket Weld **B**=Butt Weld	**Blank**=No Pipe **4**=1/2" **6**=3/4" **8**=1" **12**=1-1/2"	**Blank**=No Pipe **A**=SCH 10 **B**=SCH 40 **C**=SCH 80	**A=3" B=4" C=5" D=6" E=7" F=8" H=10" J=12"**

Ordering Information

Part Number	Inlet Inches (mm)	Outlet Inches (mm)	End Connection Type	Outlet Port Orientation	Bleeder Port Orientation	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	E Inches (mm)	Open Port	C_v (K_v)	Lbs (Kg)
DV4112SM08	1 1/2 (DN40)	1 (DN25)	Thread NFPT	1 port up, 1 port down on each side	1/4" NFPT, 90° from inlet	9.84 (250)	4.88 (124)	4.09 (104)	5.95 (152)	4.14 (105)	One Side	27.7 (23.9)	17 (7.7)
											Both Sides	48.8 (42.2)	
DV4112SM12		1 1/2 (DN40)									One Side	38.6 (33.4)	15 (6.8)
											Both Sides	75.4 (65.2)	

* Additional options available upon request

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Bronze Globe Valve for Cryogenic Service
BB Series

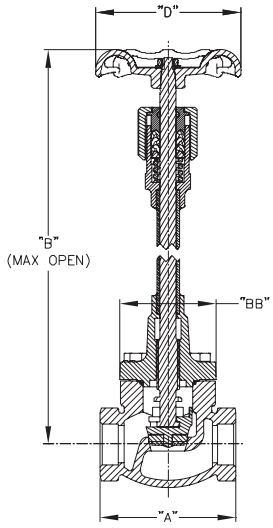
Application

The globe valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance. Internal components are identical with the SKB Series. The BB Series globe valves are offered with brazed-in schedule 10 and 40 stainless steel pipe stubs. Also available in short stem version.

Features

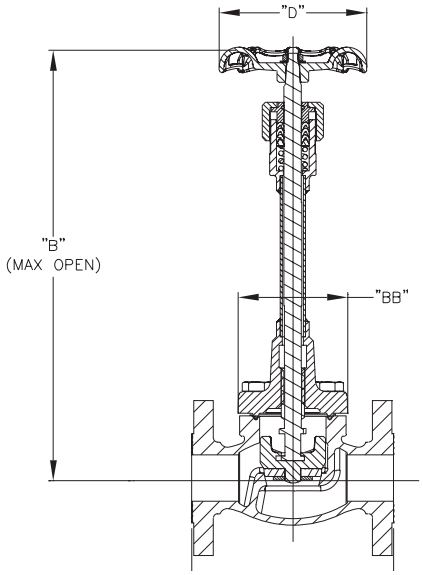
- Superior Flow: Provides high Cv for rapid and reliable loading and unloading
- V-Ring spring loaded packing: provides extended service life without constant packing adjustment
- Conical PCTFE Seat: provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life
- Ideal for loading & unloading cryogenic bulk tanks and trucks. The 1½" & 2" valves are designed to be operator friendly, opening and closing completely with only four 360° rotations
- Connections: NPT, SBT & Flange
- Sizes: ¼" to 2"
- Bonnet Type: Bolted
- Pressure Rating: 720 psig (50 barg)
- Temperature Rating: -325°F (-198°C) to +150°F (+65°C)
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations.
- Cleaned for Oxygen Service per CGA G-4.1

BB9412T



REGO 10 YEAR WARRANTY

BB9412F



Materials

Body ..... Bronze ASTM B61
Upper Bonnet .....Brass ASTM B16
Lower Bonnet ..... Brass ASTM B283
Stem ..... .Stainless Steel ASTM A582
Spring ..... Stainless Steel ASTM A313
Packing.....PTFE
Gasket .....PTFE 25% Glass Fill
Seat Disc .....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws ..... Stainless Steel ASTM A320
Handwheel..... Chromated Coated Ductile Iron ASTM A395

Ordering Information

Part Number	Size Inches	Size DN	Connection	A		B		D		BB		C_V	K_V	Weight lbs.	Weight kg.
				Inches	mm	Inches	mm	Inches	mm	Inches	mm				
BB9402S	¼"	8	Silver Brazed Tube	2.68	68	14.40	366	3.00	76	2.00	51	1.7	1.47	8.30	3.7
BB9404S	½"	15		2.88	73							5.0	4.30		
BB9406S	¾"	20		3.55	90			4.00	102	2.66	67	9.4	8.1		
BB9408S	1"	25		3.75	95							14.0	12.10		
BB9412S	1½"	40		4.78	121	14.60	371	4.75	121	3.44	87	28.3	21.60	12.90	5.8
BB9416S	2"	50		5.88	149	16.21	412	5.25	133	4.06	103	53.0	47.41	21.60	9.8
BB9402T	¼"	8	Threaded NPT	2.68	68	14.40	366	3.00	76	2.00	51	1.7	1.47	8.30	3.7
BB9404T	½"	15		2.88	73							5.0	4.30		
BB9406T	¾"	20		3.55	90			4.00	102	2.66	67	9.4	8.1		
BB9408T	1"	25		3.75	95							14.0	12.10		
BB9412T	1½"	40		4.78	121	14.60	371	4.75	121	3.44	87	28.3	21.60	12.90	5.8
BB9416T	2"	50		5.88	149	16.21	412	5.25	133	4.06	103	53.0	47.41	21.60	9.8
BB9412F	1½"	40	Flanged RF	6.50	165	14.60	371	4.75	121	3.44	87	28.3	21.60	18.56	8.4
BB9416F	2"	50		8.00	203	16.21	412	5.25	133	4.06	103	53.0	47.41	30.00	13.6

Bronze Globe Valve for Cryogenic Service with Pipe Ends
BB Series

Application

The BB Series globe valves with pipe ends are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ISO containers and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance. Internal components are identical with the SKB Series.

Features

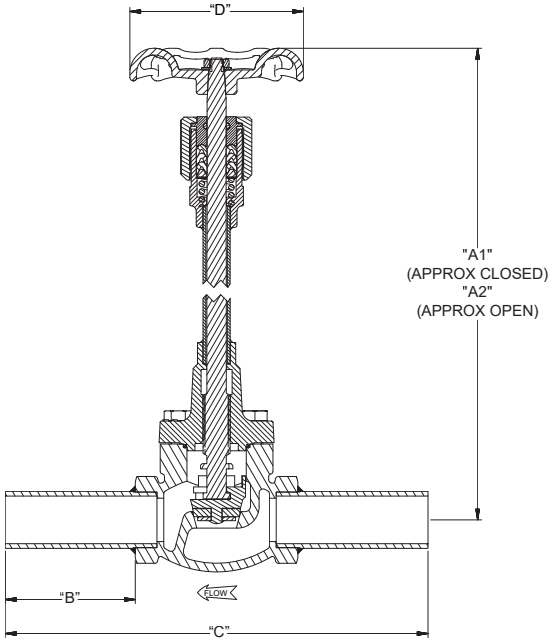
- Superior Flow: Provides high Cv for rapid and reliable loading and unloading
- V-Ring spring loaded packing: provides extended service life without constant packing adjustment
- Conical PCTFE Seat: provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life
- Connections: SS pipe extension SCH 10 and SCH 40
- Sizes: ½" to 2"
- Bonnet Type: Bolted
- Pressure Rating: 720 psig (50 barg)
- Temperature Rating: -320°F (-196°C) to +150°F (+65°C)
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations
- Cleaned for Oxygen Service per CGA G-4.1

Materials

Body ..... Bronze ASTM B61
Upper Bonnet .....Brass ASTM B16
Lower Bonnet ..... Brass ASTM B283
Stem ..... .Stainless Steel ASTM A582
Spring ..... Stainless Steel ASTM A313
Packing.....PTFE
Gasket .....PTFE 25% Glass Fill
Seat Disc .....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws..... Stainless Steel ASTM A320
Handwheel..... Chromated Coated Ductile Iron ASTM A395

REGO 10 YEAR WARRANTY

BB9404AA



Ordering Information

Part Number	Size Inches	Size DN	Connection	A1		A2		B		C		D		Cv (Kv)	Weight lbs.	Weight Kg.
				Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm			
BB9404AA	½"	15	SCH 10 Pipe	13.9	353.06	14.4	365.76	3.00	76.2	8.88	225.55	2.00	50.8	5.0 (4.30)	9.13	4.14
BB9406AA	¾"	20						4.00	101.6	9.55	242.57	2.60	66.04	9.4 (8.10)	9.23	4.19
BB9408AA	1"	25								9.75	247.65	2.68	68.07	14.0 (12.10)	9.50	4.31
BB9412AA	1½"	40						4.75	120.65	10.79	274.06	3.47	88.13	28.3 (21.60)	14.19	6.43
BB9416AA	2"	50		15.27	387.85	16.21	411.73	5.25	133.35	11.88	301.75	3.26	82.80	53.0 (45.80)	23.76	10.77
BB9404BB	½"	15	SCH 40 Pipe	13.9	353.06	14.4	365.76	3.00	76.2	8.88	225.55	2.00	50.8	5.0 (4.30)	9.22	4.18
BB9406BB	¾"	20						4.00	101.6	9.55	242.57	2.60	66.04	9.4 (8.10)	9.37	4.25
BB9408BB	1"	25								9.75	247.65	2.68	68.07	14.0 (12.10)	9.64	4.37
BB9412BB	1½"	40						4.75	120.65	10.79	274.06	3.47	88.13	28.3 (21.60)	14.48	6.56
BB9416BB	2"	50		15.27	387.85	16.21	411.73	5.25	133.35	11.88	301.75	3.26	82.80	53.0 (45.80)	24.19	10.97

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BBM9400 Series Bronze Globe Valves
BBM9400

Application

The **BBM Series of Stainless Steel** topworks/Bronze body Globe Valves are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. Ideal service medium includes oxygen, nitrogen, krypton, carbon dioxide, dinitrogen monoxide, carbon oxide, methane, ethane, ethylene, argon and LNG . Our Kold-Seal stem seal technology assures a tight seal preventing cryogen gas loss. The conical seat design allows exceptional flow, positive shutoff and less chance of debris accumulation in the flow path, all resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy. The BBM Series globe valves are also offered with brazed-in schedule 10 and 40 stainless steel pipe stubs

Features

- **Soft Seat:** PCTFE material, which is the most widely specified cryogenic seat material in the industry.
- **Construction:** Bolted bonnet allows easy access to the valve internals for servicing.
- **Stem Packing:** Proven Kold-Seal technology, Live Loaded PTFE
- **Sizes:** 1/2” through 1-1/2”.
- **Connection:** Socket weld, butt weld, NPT, stainless steel pipe stubs.
- Service: Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F to +150°F (-198°C to +65°C).
- **Pressure Rating:** Cold, Non-Shock, 725 PSIG (50 BARG), cleaned and packaged for oxygen service per CGA G-4.1.
- **Application:** Multiple stem lengths available for selected service.
- **Packaging:** Each valve is individually bagged and boxed to arrive in factory-new condition until installation.

BBM9400

Materials

Soft Seat ..... PCTFE
Construction ..... Bolted Bonnet
Stem Packing ..... Kold-Seal, Live Loaded PTFE
Sizes ..... 1/2” through 1-1/2”
Connection ... Socket Weld, Butt Weld, NPT, Brazed-in schedule 10 and 40 S/S

Ordering Information

Part Number	Size Inches	Size DN	Connection	A		B		D		BB				Weight	
				Inch.	mm	Inch.	mm	Inch.	mm	Inch.	mm	Cv	Kv	lbs	kg
BBM9404S	1/2”	15	Silver Brazed Tube	2.88	73.0	10.50	266.70	4.0	101.60	2.0	50.80	5.0	4.3	3.88	1.76
BBM9406S	3/4”	20		3.55	90.0					2.6	66.04	9.4	8.1	5.60	2.54
BBM9408S	1”	25		3.75	95.0	10.60	269.24					14.0	12.1	5.88	2.67
BBM9412S	1-1/2”	40		4.78	121.0			5.0	127.00	3.4	86.36	28.3	24.5	11.12	5.05
BBM9404T	1/2”	15	Threaded	2.88	73.0	10.50	266.70	4.0	101.60	2.0	50.80	5.0	4.3	3.87	1.76
BBM9406T	3/4”	20		3.55	90.0					2.6	66.04	9.4	8.1	5.61	2.55
BBM9408T	1”	25		3.75	95.0	10.60	269.24					14.0	12.1	5.84	2.65
BBM9412T	1-1/2”	40		4.78	121.0			5.0	127.00	3.4	86.36	28.3	24.5	10.99	4.99

* Other connection options available upon request

BBM9400 SERIES BRONZE GLOBE VALVES WITH PIPE ENDS
BBM9400

Application

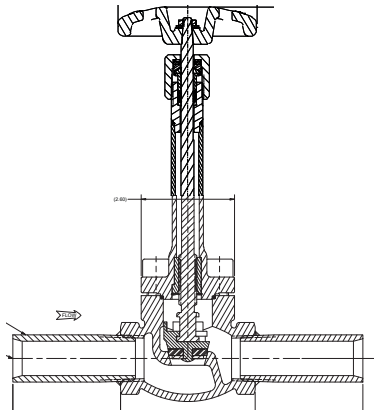
The **BBM Series of Stainless Steel** topworks/Bronze body Globe Valves are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. Ideal service medium includes oxygen, nitrogen, krypton, carbon dioxide, dinitrogen monoxide, carbon oxide, methane, ethane, ethylene, argon and LNG . Our Kold-Seal stem seal technology assures a tight seal preventing cryogen gas loss. The conical seat design allows exceptional flow, positive shutoff and less chance of debris accumulation in the flow path, all resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy.

Features

- **Soft Seat:** PCTFE material, which is the most widely specified cryogenic seat material in the industry.
- **Construction:** Bolted bonnet allows easy access to the valve internals for servicing.
- **Stem Packing:** Proven Kold-Seal technology, Live Loaded PTFE
- **Sizes:** 1/2” through 1-1/2”.
- **Connection:** Socket weld, butt weld, and pipe stubs.
- Service: Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325ºF to +150ºF (-198ºC to +65ºC).
- **Pressure Rating:** Cold, Non-Shock, 725 PSIG (50 BARG), cleaned and packaged for oxygen service per CGA G-4.1.
- **Application:** Multiple stem lengths available for selected service.
- **Packaging:** Each valve is individually bagged and boxed to arrive in factory-new condition until installation.

Materials

Soft Seat ..... PCTFE
Construction ..... Bolted Bonnet
Stem Packing ..... Kold-Seal, Live Loaded PTFE
Sizes ..... 1/2” through 1-1/2”
Connection ..... NPT, Brazed-in schedule 10 and 40 S/S



BBM9400

Ordering Information

Part Number	Size Inches	Size DN	Connection	A1		A2		D		BB				Weight	
				Inch.	mm	Inch.	mm	Inch.	mm	Inch.	mm	Cv	Kv	lbs	kg
BBM9406AA	3/4”	20	SCH 10 Pipe	3.55	90	10.5	266.70	4.0	101.6	2.6	66.04	9.4	8.1	6.53	2.97
BBM9408AA	1”	25		3.75	95	10.6	269.24					14.0	12.1	7.08	3.22
BBM9412AA	1-1/2”	40		4.78	121			5.0	127.0	3.4	86.36	28.3	24.5	12.41	5.63
BBM9406BB	3/4”	20	SCH 40 Pipe	3.55	90	10.5	266.70	4.0	101.6	2.6	66.04	9.4	8.1	6.68	3.03
BBM9408BB	1”	25		3.75	95	10.6	269.24					14.0	12.1	7.18	3.26
BBM9412BB	1-1/2”	40		7.78	121			5.0	127.0	3.4	86.36	28.3	24.5	12.57	5.71

Bronze Globe Valve Short Stem for Cryogenic Service
BBS Series

Application

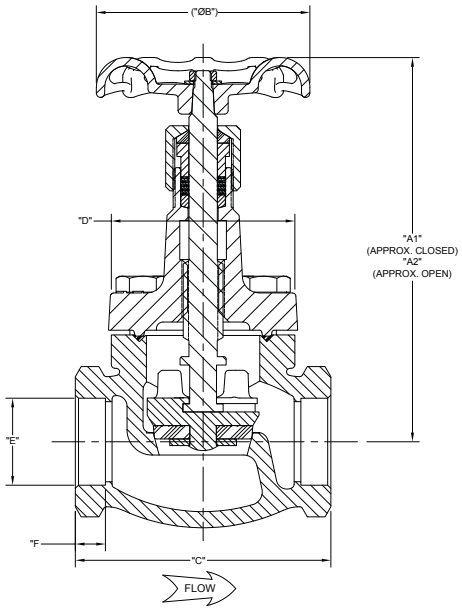
The BB Series globe valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance. Internal components are identical with the SKB Series.

REGO 10 YEAR WARRANTY

Features

- Superior Flow: Provides high Cv for rapid and reliable loading and unloading
- Designed with the unique Kold-Seal
- Conical PCTFE Seat: provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life
- Ideal for loading & unloading cryogenic bulk tanks and trucks. The 1½" & 2" valves are designed to be operator friendly, opening and closing completely with only four 360° rotations
- Connections: NPT & SBT
- Sizes: ¼" to 2"
- Bonnet Type: Bolted
- Pressure Rating: 720 psig (50 barg)
- Temperature Rating: -320°F (-196°C) to +150°F (+65°C)
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations
- Cleaned for Oxygen Service per CGA G-4.1
- Recommended for vapor phase and non-permanent cryogenic liquid use

BBS9404S



Materials

Body ..... Bronze ASTM B61
Upper Bonnet .....Brass ASTM B16
Lower Bonnet ..... Brass ASTM B283
Stem ..... .Stainless Steel ASTM A582
Spring ..... Stainless Steel ASTM A313
Packing.....PTFE
Gasket .....PTFE 25% Glass Fill
Seat Disc .....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws ..... Stainless Steel ASTM A320
Handwheel..... Chromated Coated Ductile Iron ASTM A395

Ordering Information

Part Number	Size Inches	Size DN	Connection	A1		A2		B		C		D		E		F		Cv (Kv)	Weight lbs.	Weight Kg
				Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm			
BBS9402S	¼"	8	Silver Brazed Tube	5.75	146	6.24	158	3.00	76	8	203	2.00	51	0.38	9	0.30	8	1.7 (1.47)	5.2	2.3
BBS9404S	½"	15								2.88	73			0.63	16	0.40	10	5.0 (4.30)		
BBS9406S	¾"	20		6.07	154	6.6	168	4.00	101	3.55	90	2.60	66	0.88	22			9.4 (8.10)		
BBS9408S	1"	25								3.75	95			1.13	29	0.50	13	14 (12.10)		
BBS9412S	1½"	40		7.20	183	7.93	201	4.75	121	4.79	121	3.47	88	1.63	41	0.56	14	28.3 (21.60)	7.25	3.2
BBS9416S	2"	50		8.85	225	9.84	250			5.87	149	3.96	100	0.38	9	0.30	8	53 (45.80)	11.96	5.4
BBS9402T	¼"	8	Threaded NPT	5.75	146	6.24	158	3.00	76	8	203	2.00	51					1.7 (1.47)	5.2	2.3
BBS9404T	½"	15								2.88	73			0.63	16	0.40	10	5.0 (4.30)		
BBS9406T	¾"	20		6.07	154	6.6	167	4.00	101	3.55	90	2.60	66	0.88	22			9.4 (8.10)		
BBS9408T	1"	25								3.75	95			1.13	29	0.50	13	14 (12.10)		
BBS9412T	1½"	40		7.20	183	7.93	201	4.75	121	4.79	121	3.47	88	1.63	41	0.56	14	28.3 (21.60)	7.25	3.2
BBS9416T	2"	50		8.85	225	9.84	250			5.87	149	3.96	100	2.13	54	0.63	16	53 (45.80)	11.96	5.4

Extended Bonnet Cryogenic Globe Valves
BK and BKA Series Valves

Application

The BK and BKA Series valves are designed exclusively for the handling of cryogenic liquids on bulk storage tanks, transports, and pipelines. These globe valves provide positive shutoff and offer a long, low-maintenance service life. The valves are available with a variety of inlet and outlet connections and stem lengths. Certain BK valves are offered with brazed-in schedule 5 and schedule 10 Stainless Steel Pipe Stubs.

Features

- PCTFE seat disc and swivel seat design offer positive shutoff, minimal seat wear, and a long service life
- Unique spring-loaded upper packing provides extended service life without constant packing adjustment
- One piece slip-on seat assembly for easy replacement
- Each valve is cleaned and packaged for oxygen service per CGA G-4.1
- Maximum working pressure is 600 psig (41.37 barg) MAWP (-196ºC)
- Working temperature range is -320°F to +165°F (196ºC to +79ºC)
- 100% Factory Tested

Materials

Body	ASTM B61
Upper Bonnet	ASTM B16
Lower Bonnet	Brass ASTM B16 for up to 1" Valve Size
	BRASS ASTM B283 For Larger Sizes
Seat Disc	PCTFE
Seat Retainer Assembly	Brass ASTM B16
Stem and Bonnet Extension Tube	Stainless Steel ASTM A582
Spring	Stainless Steel ASTM AB13
Jam Ring and Pressure Seal Rings	PTFE
Handwheel	Aluminum for up to 1" valve size,
	Coated Malleable Iron for larger size

Bonnet Design

Union Bonnet for ½", ¾", 1" valve sizes and on both the 1" model BKA8408S and 1½" model BKA8412S angle valves. Bolted Bonnet design is used on the BK9416 (2") models.

REGO 10 YEAR WARRANTY

BK8408T

BK9412S

BK9408AA

BKA8412S

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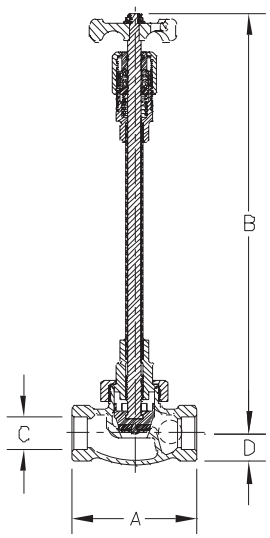
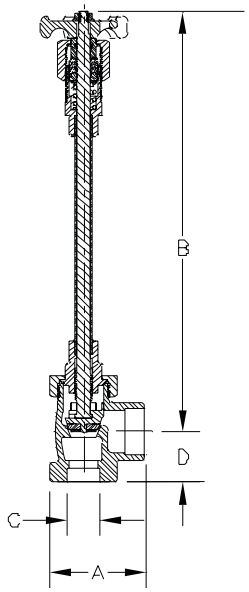
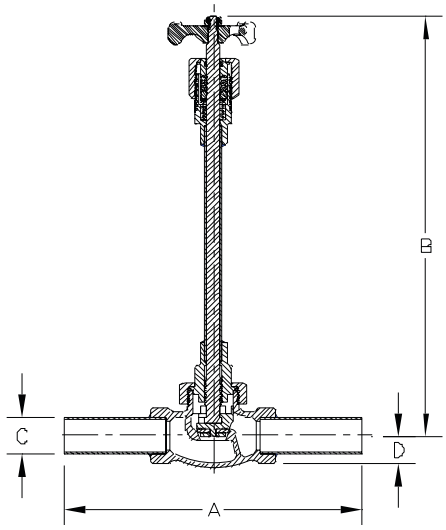
Extended Bonnet Cryogenic Globe Valves
BK and BKA Series Valves



Straight Globe Valve



Angle Globe Valve



Straight Globe Valve with Pipe Stubs

Ordering Information

Part Number	Body Style	A Length Inches (mm)	B Max Open (Approx) Inches (mm)	C Inlet / Outlet Connections INCHES (MM)	D Inches (mm)	C_V (Kv)
BK8404S	Straight	3 11/16" (94)	9 5/32" (233)	.631"-.634" (16.02-16.10)	1" (25)	4.7 (4.06)
BK8404T				½" F.NPT (12.7)		
BK8404ST				.631"-.634"x ½" F.NPT (16.02-16.10x12.7)		
BK9404S			15" (381)	.631"-.634" (16.02-16.10)		
BK9404T				½" F.NPT (12.7)		
BK9404AA		9 11/16" (246)		½" SCH10 Pipe (12.7)		
BK9404PT-F30		6 11/16" (170)		½" Sch5 Pipe x ½" F.NPT (12.7)		
BK9404ST		3 11/16" (94)		.631"-.634"x½" F.NPT (16.02-16.10x12.7)		
BK8406S			9 5/32" (233)	.881"-.884" (22.37-22.45)		
BK8406T				¾" F.NPT (19)		
BK9406S			15" (381)	.881"-884" (22.37-22.45)		
BK9406T				¾" F.NPT (19)		
BK9406AA		911/16" (246)	14.9 (378)	¾" SCH10 Pipe (19)		
BK8408S		4 5/16" (109)	9 1/8" (232)	1.131"-1.134" (28.72-28.80)	1 1/8" (28)	11.2 (9.68)
BK8408T				1" F.NPT (25)		
BK9408S			15" (381)	1.131"-1.134" (28.72-28.80)		
BK9408T				1" F.NPT (25)		
BK9408AA		10 5/16" (262)		1" Sch10 Pipe (25)		
BK9408PT-F30		7 5/16" (185)		1" Sch5 Pipe x 1" F.NPT (25)		
BK9412AA		11 3/16" (284)	16 9/16" (420)	1½" Sch10 Pipe (38)	1½" (38)	25.1 (21.71)
BK9412PT-F30		8 3/16" (208)		1½" Sch5 Pipe x 1½" F.NPT (38)		
BK9416S*		6" (152)	16" (406)	2.131" - 2.134" (54.12-54.20)	1 5/8" (41)	41 (35.46)
BK9416AA		11.88" (302)		2" SCH10 Pipe (51)		
BK9416T*		6" (152)		2" F.NPT (51)		
BK9416PT-F30		9" (229)		2" Sch5 Pipe x 2" F.NPT (51)		
BKA8408S	Angle	3 1/4" (82)	9 5/11" (240)	1.131"-1.134" x1.631"-1.634" (28.72-28.80 x 41.42-41.50)	1 3/4" (44)	14.5 (12.54)
BKA9408S			14 5/8" (371)			
BKA8412S		4 1/4" (108)	13" (330)	1.631"-1.634" (41.42-41.50)		30.0 (25.95)

* Valves with bolted bonnet design.
BB Available for 1½".

Brass Angle Globe Valves
B-226BLA

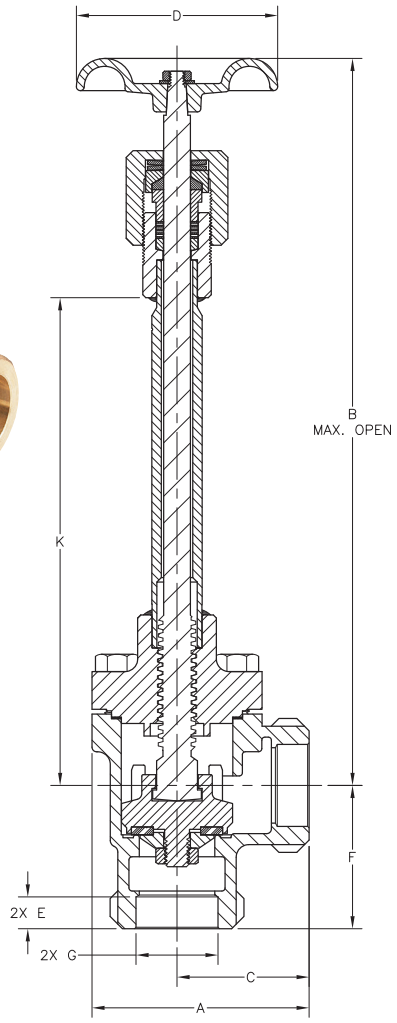
Application

RegO/Goddard brass angle globe valves are designed for handling cryogenic liquids. Designed for fill manifolds applications of bulk tanks. RegO Kold-Seal™ stem seal technology assures a tight seal preventing gas loss. Maintenance on the packing and seat is quick and easy. Ideal service medium includes oxygen, nitrogen, argon, carbon dioxide, nitrous oxide, methane, ethane, ethylene, krypton, and carbon oxide.

Features

- Sizes: 1½"
- Connection: Silver Brazed Tube
- Service: Liquefied and vaporized atmospheric gases
- Temperature rating: -325°F to +150°F (-198°C to +65°C)
- Pressure rating: Cold, Non-Shock, 600 psig (41.4 barg)
- Cleaned and packaged for oxygen service per CGA G-4.1
- Soft Seat: PCTFE material which is the most widely specified cryogenic seat material in the industry
- Stem Packing: Proven Kold-Seal technology, live loaded PTFE
- Flat seat
- 100% factory tested. Each valve is individually bagged and boxed to arrive in factory new condition until installation

B-226BLA-12S6



Materials

Body ..... Brass ASTM B61
Bonnet and Tube ..... Stainless Steel ASTM A269
Seat Disk ..... PCTFE
Seat Retainer..... Brass ASTM B61
Packing..... Live Loaded PTFE Packing
Handwheel.....ASTM A395
Bonnet Gasket.....PTFE 25% Glass Fill Virgin Grade

Ordering Information

Part Number	Size Inches	Nominal Size DN	Connection	A inches (mm)	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)	F inches (mm)	G inches (mm)	K inches (mm)	Cv (Kv)	Weight lbs (kg)
B-226BLA-12S6	1- ½"	40	Silver Brazed Tube	14.63 (371)	1.63 (41.4)	2.63 (67)	4.00 (102)	63 (67)	2.85 (72)	1.63 (41)	9.7 (246)	30 (25.95)	10.50 (4.76)

100 RegO Dr. Elon, NC 27244 USA www.regoproducts.com

Bronze Globe Valve for Cryogenic Service 222 Series Including 226LL, 226GF, 226ULL, 226BLL, 222X, 226LL, 226BLL

Application

The 222 Series valves are designed exclusively for the handling of cryogenic liquids on bulk storage tanks, transports, and pipelines. These globe valves provide positive shutoff and offer a long, low-maintenance service life. The valves are available with a variety of inlet and outlet connections and stem lengths.

B-226ULL

B-226BLL

REGO 10 YEAR WARRANTY

Features

- **Top Entry:** This union bonnet valve can be permanently installed in the line and serviced from the top. The stainless steel tube prevents stem distortion. Also available in bolted bonnet configuration.
- **Construction:** Bronze cast body and bonnet
  Rugged construction for long life
- **Designed with the unique Kold-Seal™** and high Cv. standard PTFE seat design assures bubble tight seating and high cycle life
- Oxygen cleaned per CGA G-4.1
- **Sizes:** ¼" through 3" (8mm through 80mm)
- **Ends:** Threaded (FNPT), Sil Braze Tube (SBT), Silver Braze Pipe and back brazed threaded pipe nipples
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -320°F to 150°F (-196°C to +65°C)
- **Pressure Rating:** (Cold, Non-shock)
  400 and 600 psig (28 and 42 barg)
  Sizes 1½" to 3" PED approved
- **Kold-Seal™ Technology assures tight seal preventing cryogen gas loss**
- **Extended stem suitable for cold box, transport vehicles, pipelines, and customer service applications**
- **Live (LL) loaded option improves life of asset and minimizes service costs**
- **Replaceable top works equates to low maintenance costs**

Ordering Information

222X

Bronze Globe Valves, Extended Stem - Conical Seat, 400 psig (28 barg) Cold Working Pressure
Threaded Ends

Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN						
B-222X-2T4	¼	8	2⅝ (67)	8⅜ (213)	2⅜ (60)	4 13/16 (122)	1.50 (0.70)	1.30 (1.12)
B-222X-4T4	½	15					1.50 (0.70)	3.25 (2.81)
B-222X-4T4A				14 9/16 (395)		12 3/16 (310)	1.65 (0.75)	
B-222X-6T4	¾	20	3 3/16 (81)	8⅝ (219)	2¾ (70)	4⅞ (124)	3.00 (1.40)	6.25 (5.40)
B-222X-6T4A				15 13/16 (401)		12 (305)	3.15 (1.43)	
B-222X-8T4	1	25	3¾ (95)	10½ (267)	3 (76)	6½ (165)	4.00 (1.80)	10.00 (8.65)
B-222X-8T4A				16 (407)		12 (305)	4.20 (1.90)	
B-222X-12T4	1½	40	4¾ (121)	14 15/16 (379)	4 (102)	9 11/16 (246)	7.75 (3.50)	26.00 (22.49)
B-222X-12T4A				15 7/16 (468)		13½ (343)	8.00 (3.63)	
B-222X-16T4	2	50	5¾ (146)	15⅛ (384)	4¾ (121)	9 11/16 (246)	12.50 (5.70)	45.00 (38.92)
B-222X-16T4A				19⅝ (499)		14 3/16 (361)	12.75 (5.78)	45.00 (38.92)
B-222X-20T4	2½	65	8½ (216)	22¾ (578)	8 (203)	16 (406)	61.00 (27.70)	50.00 (43.25)
B-222X-24T4	3	80					61.00 (27.70)	100.00 (86.5)

Silver Brazed Ends

Part Number	Size		"B" Inches (mm)	"D" Inches (mm)	"E" Inches (mm)	"F" Inches (mm)	"G" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN								
B-222X-4S4	½	15	9⅜ (213)	2⅜ (60)	⅜ (10)	3¼ ()	⅝ (16)	4 13/16 (122)	2.00 (0.90)	3.25 (2.81)
B-222X-6S4	¾	20	8⅝ (219)	2¾ (70)	7/16 (11)	3¾ (95)	⅞ (22)	4⅞ (124)	2.75 (1.30)	6.25 (5.40)
B-222X-8S4	1	25	10½ (267)	3 (76)	7/16 (11)	3¾ (95)	1 5/16 (33)	6½ (165)	3.75 (1.70)	10.00 (8.65)
B-222X-12S4	1½	40	14 15/16 (379)	4 (102)	⅝ (16)	5¼ (133)	1⅝ (41)	9 11/16 (246)	7.25 (3.30)	26.00 (22.49)
B-222X-16S4	2	50	15⅛ (384)	4¾ (121)	11/16 (17)	6½ (165)	2⅛ (54)	9 11/16 (246)	11.50 (5.20)	45.00 (38.92)
B-222X-24S4	3	80	22¾ (578)	8 (203)	13/16 (21)	10½ (267)	3⅛ (79)	16 (406)	58.00 (26.40)	100.00 (86.5)

SB-222X

Stainless Steel Body, Bronze Topworks, Conical Seat, 450 psig Cold Working Pressure

Part Number	Size		"B" Inches (mm)	"D" Inches (mm)	"E" Inches (mm)	"F" Inches (mm)	"G" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN								
SB00222X-12SW	1½	40	14 15/16 (372)	4 (102)	½ (13)	4¾ (121)	1 15/16 (49)	9 11/16 (246)	7.75 (3.50)	26.00 (22.49)

Ordering Information

226LL

Bronze Globe Valves, Live Load Packing, Extended Stem, 600 psig (42 barg) Cold Working Pressure
Threaded Ends

Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN							
B-0226LL-2T6	¼"	8	2⅝ (67)	8 11/16 (221)	2⅜ (60)	4 13/16 (122)	122	1.50 (0.68)	1.30 (1.12)
B-0226LL-3T6	⅜"	10						1.50 (0.68)	2.40 (2.07)
B-0226LL-4T6	½"	15						2.5 (1.13)	3.25 (2.81)
B-0226LL-6T6	¾"	20	4¼ (108)	10½ (267)	3 (76)	6½ (165)	165	3.2 (1.45)	6.25 (5.40)
B-0226LL-8T6	1"	25	3¾ (95)					5.3 (2.40)	10.00 (6.65)

Silver Brazed End

Part Number	Size		"B" Inches (mm)	"D" Inches (mm)	"E" Inches (mm)	"F" Inches (mm)	"G" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN								
B-0226LL-4S6	½	15	8 11/16 (221)	2⅜ (60)	⅜ (10)	3 ¼ (83)	⅝ (16)	4 13/16 (122)	2.00 (0.90)	3.25 (2.81)
B-0226LL-6S6	¾	20	10½ (267)	3 (76)	7/16 (11)	4¼ (108)	⅞ (22)	6½ (165)	2.75 (1.30)	6.25 (5.40)
B-0226LL-8S6	1	25					1⅛ (29)		5.8 (2.63)	10.00 (6.65)

226ULL

Bronze Globe Valves, Live Loaded Packing - Union Bonnet, Extended Stem, 600 psig (42 barg) Cold Working Pressure
Threaded Ends

Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN						
B-226ULL-12T6	1½	40	4¾ (121)	14⅝ (371)	4 (102)	9 11/16 (246)	7.75 (3.50)	26.00 (22.49)
B-226ULL-16T6	2"	50	5¾ (146)	15⅛ (384)	4¾ (121)		12.50 (5.70)	45.00 (38.92)

Silver Brazed End

Part Number	Size		"B" Inches (mm)	"D" Inches (mm)	"E" Inches (mm)	"F" Inches (mm)	"G" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN								
B-226ULL-12S6	1½	40	14⅝ (371)	4 (102)	⅝ (16)	5 ¼ (133)	1⅝ (41)	9 11/16 (246)	7.25 (3.30)	26.00 (22.49)
B-226ULL-16S6	2	50	15⅛ (384)	4 ¾ (121)	11/16 (17)	6 ½ (165)	2⅛ (54)		11.50 (5.20)	45.00 (38.92)

226XGF

Bronze Globe Valves, Extended Stem - Conical Seat Grafoil® Packing, Gasket and PFA Seat
600 psig (42 barg) Cold Working Pressure Temperature Range -325°F to +300°F (-198°C to +149°C)
Threaded Ends

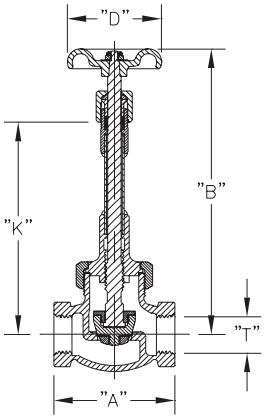
Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN						
VB-226XGF-4T6	½	15	2 ⅝ (67)	8 ¼ (209)	2⅜ (60)	4 13/16 (122)	1.50 (0.70)	3.25 (2.81)
VB-226XGF-6T6	¾	20	3 3/16 (81)	8⅝ (219)	2¾ (70)		3.00 (1.40)	6.25 (5.40)
VB-226XGF-8T6	1	25	3¾ (95)	10⅜ (263)	3 (76)	6½ (165)	4.00 (1.80)	10.00 (8.65)
VB-226XGF-12T6	1½	40	4¾ (121)	15¼ (387)	3 (76)	7½ (165)	7.75 (3.50)	26.00 (22.49)

226BLL

Bronze Globe Valves, Live Loaded Packing - Bolted Bonnet, Extended Stem, 600 psig (42 barg) Cold Working Pressure
Threaded Ends

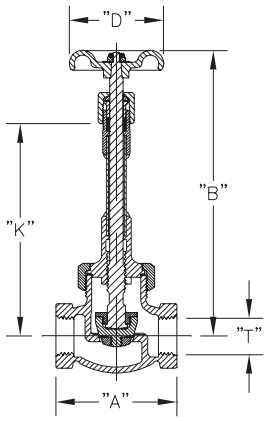
Part Number	Size		"A" Inches (mm)	"B" Inches (mm)	"D" Inches (mm)	"K" Inches (mm)	Weight Lbs (Kg)	Estimated Cv (Kv)
	Inches	DN						
B-226BLL-12T6	1½	40	4¾ (121)	14⅝ (371)	4 (101)	9 11/16 (246)	7.75 (3.50)	26.00 (22.49)
B-226BLL-16T6	2	50	5¾ (146)	14 15/16 (379)	4¾ (121)		12.50 (5.70)	45.00 (38.92)

Bronze Globe Valve for Cryogenic Service 222 Series Including 226LL, 226GF, 226ULL, 226BLL, 222X, 226LL



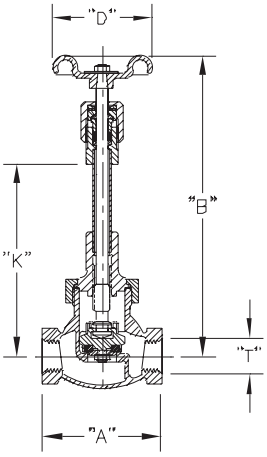
222X
Pressure Rating 400 psig (28 barg)
Temperature Rating -325°F to +150°F (-198°C to +65°C)

Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
¼"	8	2.63"	67	8.38"	213	2.38"	60	¼"	6	4.8"	122
½"	15			15.54"	395			½"	13	12.2"	310
¾"	20	3.19"	81	8.63"	219	2.75"	70	¾"	19	4.9"	124
				15.79"	401					12"	305
1"	25	3.75"	95	10.50"	267	3"	76	1"	25	6.5"	165
				16.01"	407					12"	05
1½"	40	4.75"	121	14.63"	372	4"	102	1½"	38	9.7"	246
				18.44"	468					13.5"	343
2"	50	5.75"	146	15.13"	384	4.75"	121	2"	51	9.7"	246
				22.43"	570					14.2"	361
2½"	65	8.5"	216	22.75"	578	8"	203	2½"	64	16"	406
3"	80							3"	76		



SB-222X
Pressure Rating 400 psig (28 barg)
Temperature Rating -325°F to +150°F (-198°C to +65°C)

Size		"A"		"B"		"D"		"BB		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	4¾"	121	14⅝"	372	4"	102	3"	76	9.7"	246



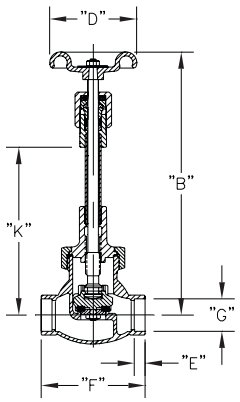
226LL
Pressure Rating 600 psig (42 barg)
Temperature Rating +150°F to -325°F (+65°C to -198°C)

Dimensional Data

Threaded Ends

Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
¼"	8	$2^{5}/_{16}$"	59	$7^{9}/_{16}$"	192	2"	51	¼"	6	$4^{19}/_{32}$"	117
⅜"	10							⅜"	10		
½"	15	2⅝"	67	8¼"	209	2⅜	61	½"	13	4⅞"	124
¾"	20	$3^{3}/_{16}$"	81	8⅝"	219	2¾"	70	¾"	19	$4^{13}/_{16}$"	122
1"	25	3¾"	95	10½"	267	3"	76	1"	25	6½"	165

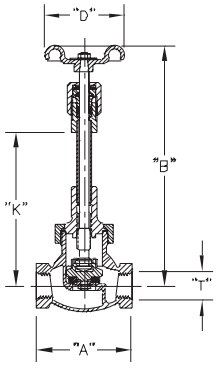
*Bolted Bonnet



Sil Brazed Ends

Size		"B"		"D"		"E"		"F"		"G"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	8¼"	209	2⅜"	60	⅜"	9	3¼"	82	.63	16	4⅞"	124
¾"	20	8⅝"	219	2¾"	70	$^{13}/_{32}$"	10	3¾"	83	.88	22	$4^{13}/_{16}$"	122
1"	25	10½"	267	3"	76	$^{7}/_{16}$"	11	4¼"	108	1.13	29	6½"	165

Bronze Globe Valve for Cryogenic Service 222 Series Including 226LL, 226GF, 226ULL, 222X, 226LL

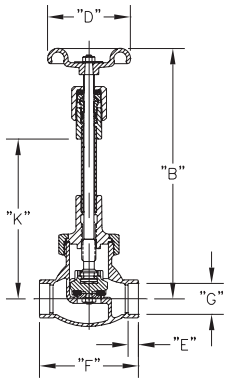


226ULL
Pressure Rating 600 psig (42 barg)
Temperature Rating -325°F to +150°F (-198°C to +56°C)

Dimensional data

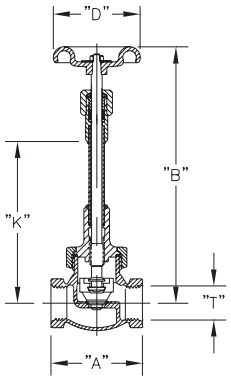
Threaded Ends

Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	4¾"	121	14⅝"	372	4"	102	1½"	38	9 11/16"	246
2"	50	5¾"	146	15⅛"	384	4¾"	121	2"	51		



Sil Brazed End

Size		"B"		"D"		"E"		"F"		"G"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	14⅝"	372	4"	102	⅝"	16	5¼"	133	1.63"	41	9 11/16"	246
2"	50	15⅛"	384	4¾"	121	21/23"	16	6½"	165	2.13"	54		

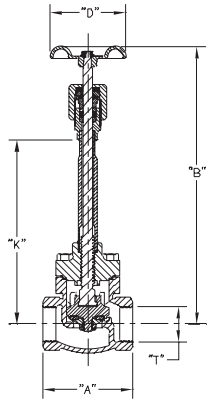


226XGF
Pressure Rating 600 psig (42 barg)
Temperature Rating -325°F to +300°F (-198°C to +149°C)

Dimensional data

Threaded Ends

Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	2⅝"	67	8¼"	209	2⅜"	60	½"	13	4⅞"	124
¾"	20	3 3/16"	81	8⅝"	219	2¾"	70	¾"	19	4 13/16"	122
1"	25	3¾"	95	10½"	267	3"	76	1"	25	6½"	165



226BLL Threaded Ends - Bolted Bonnet

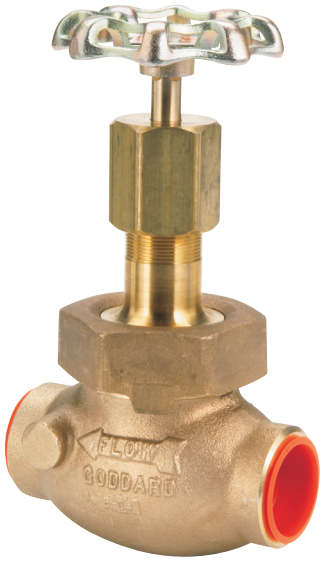
Size		"A"		"B"		"D"		"T" NPT		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	4¾"	121	14⅝"	371	4"	101	1½"	38	9 11/16"	246
2"	50	5¾"	146	14 15/16"	379	4¾"	121	2"	51		

Bronze Globe Valve for Cryogenic Service
202X Series Including 206LL, 206GF, 206ULL, 206BLL

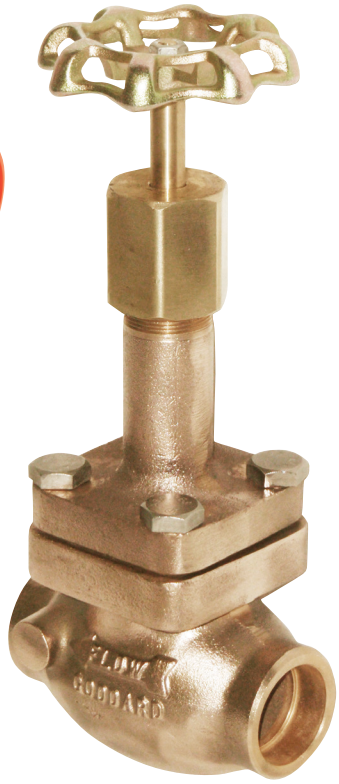
Features

- Top Entry: This union bonnet valve can be permanently installed in the line and serviced from the top
- Construction: Rugged construction for long life, bronze cast body and bonnet
- Designed with the unique Kold-Seal™ and high CV. Standard PCTFE seat design assures bubble tight seating and high cycle life
- Sizes: ¼" through 2" (8mm through 50mm)
- Ends: Threaded (FNPT), Sil Braze Tube (SBT), or with stainless steel pipe nipples brazed in
- Service: Liquefied and vaporized atmospheric gases, LNG
- Temperature Rating: -320°F to 150°F (-196°C to +65°C)
- Pressure Rating: (Cold, Non-shock)
  202 Series Rated for 400 psig (28 barg)
  206 Series Rated for 600 psig (42 barg)
  Sizes 1.5" to 2.0" PED approved per EN10204, 3.1
- Kold-Seal™ Technology assures tight seal preventing cryogen gas loss. Non-extended stem for selective cold gas service.
- Cleaned for Oxygen Service per CGA G-4.1

REGO 10 YEAR WARRANTY



206ULL



206BLL

Ordering Information

202X
Bronze Globe Valves
Non-Extended Stem - Conical Seat
400 psig (28 barg) Cold Working Pressure
For selective Cold Gas Applications

Threaded End

Part Number	NPT Valve size Inches	NPT Valve Size DN	Ends	Weight Lbs.	Weight Kg	Estimated Cv (Kv)
B-202X-12T4	1½"	40	Threaded	6.50	3.00	29.00 (25.08)
B-202X-16T4	2"	50		10.50	4.80	50.00 (43.25)

Sil Braze Ends

Part Number	SBT Valve size Inches *	SBT Valve Size DN *	Ends	Weight Lbs.	Weight Kg	Estimated Cv (Kv)
B-202X-4S4	½"	15	Silver Braze	1.50	0.7	3.90 (3.37)
B-202X-8S4	1"	25		3.25	1.50	11.50 (9.94)
B-202X-12S4	1½"	40		6.50	3.00	29.00 (25.08)
B-202X-16S4	2"	50		10.50	4.80	50.00 (43.25)

* Nominal Size

Bronze Globe Valve for Cryogenic Service
202X Series Including 206LL, 206GF, 206ULL, 206BLL

206GF
Bronze Globe Valves
Non-Extended Stem - PFA seat with high temperature, low permeability GRAFOIL® packing and gasket.
600 psig (42 barg) Cold Working Pressure, For Selective Cold Gas Applications, High Temperature Service Rating +350°F (+176°C)

Threaded Ends

Part Number	NPT Valve size Inches	NPT Valve Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv (KV)
VB-206GF-2T6	¼"	8	Threaded	1.25	0.6	1.30 (1.12)
VB-206GF-4T6	½"	15		1.50	0.7	3.90 (3.37)
VB-206GF-6T6	¾"	20		2.50	1.1	7.10 (6.14)
VB-206GF-8T6	1"	25		3.50	1.6	11.50 (9.94)
VB-206GF-12T6	1½"	40		7.00	3.2	29.00 (25.08)
VB-206GF-16T6	2"	50		11.75	5.3	50.00 (43.25)

206LL
Bronze Globe Valves, Non-Extended Stem, Live Loaded Packing, 600 psig (42 barg) Cold Working Pressure
For Selective Cold Gas Applications

Threaded Ends

Part Number	NPT Valve size Inches	NPT Valve Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv (Kv)
B-206LL-2T6	¼"	8	¼" NPT	1.25	0.6	1.30 (1.12)
B-206LL-3T6	⅜"	10	⅜" NPT			2.40 (2.07)
B-206LL-4T6	½"	15	½" NPT	1.75	0.8	3.90 (3.37)
B-206LL-6T6	¾"	20	¾" NPT	2.5	1.1	7.10 (6.14)
B-206LL-8T6	1"	25	1" NPT	3.5	1.6	11.50 (9.94)

Sil Brazed Ends

Part Number	SBT Valve size Inches *	SBT Valve Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv (Kv)
B-206LL-4S6	½"	10	Silver Braze	1.25	0.6	3.90 (3.37)
B-206LL-6S6	¾"	15		1.75	0.8	7.10 (6.14)
B-206LL-8S6	1"	20		2.5	1.1	11.50 (9.94)

* Nominal Size

206ULL
Bronze Globe Valves, Non-Extended Stem, Live Loaded Packing - Union Bonnet,
600 psig (42 barg) Cold Working Pressure For Selective Cold Gas Applications

Sil Brazed Ends

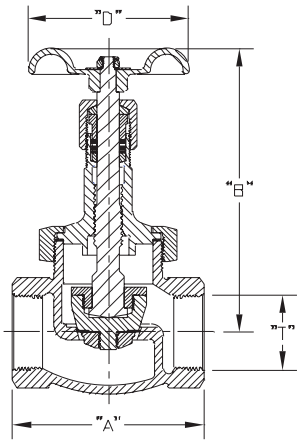
Part Number	SBT Valve size Inches	SBT Valve Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv (Kv)
B-206ULL-12S6	1½"	40	Silver Braze	7	3.2	29.00 (25.08)
B-206ULL-16S6	2"	50		11.75	5.3	50.00 (43.25)
B-206ULL-12T6	1½"	40	1½" NPT	7	3.2	29.00 (25.08)
B-206ULL-16T6	2"	50	2" NPT	11.75	5.3	50.00 (43.25)

206BLL
Bronze Globe Valves, Non-Extended Stem, Live Loaded Packing - Bolted Bonnet,
600 psig (42 barg) Cold Working Pressure For Selective Cold Gas Applications

Sil Brazed Ends

Part Number	SBT Valve size Inches	SBT Valve Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated Cv (Kv)
B-206BLL-12S6	1½"	40	Silver Braze	7	3.2	29.00 (25.08)
B-206BLL-12T6			1½" NPT			

Bronze Globe Valve for Cryogenic Service
202X Series Including 206LL, 206GF, 206ULL, 206BLL

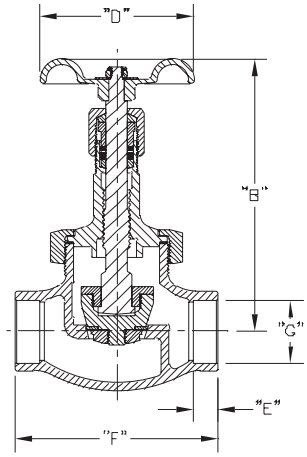


202 Series
202X
Pressure Rating 400 psig (28 barg)
Temperature Rating -325°F to +150°F (-198°C to +65°C)
Non-Extended Valve for Cold Gas Applications
Conical Seat

Dimensional data
All Dimensional Data are in inches.

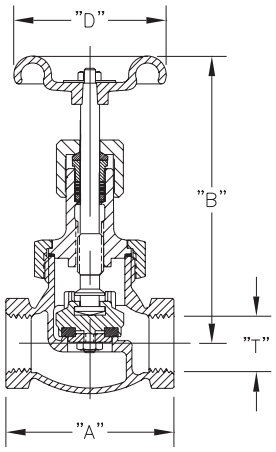
Threaded Ends

Size		"A"		"B"		"D"		"T" NPT	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	4¾"	121	8⅝"	219	4"	102	1½"	38
2"	50	5¾"	146	9½"	241	4¾"	121	2"	51



Silver Brazed Ends

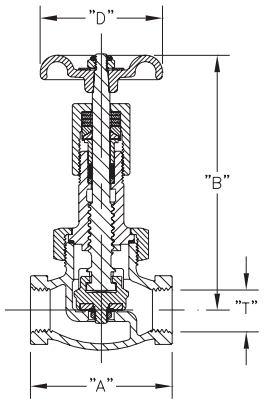
Size		"B"		"D"		"E"		"F"		"G"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	4⅝"	117	2"	51	.38	10	3¼"	82	0.63	16
1"	25					.44	11	4¼"	108	1.19	30
1½"	40	5"	127	2⅜"	60	.62	16	5¼"	133	1.63	41
2"	50	5¾"	146	2¾"	70	.66	17	6½"	159	2.13	54



206GF
Pressure Rating 600 psig (42 barg)
Temperature Rating -325°F to +350°F (-198°C to +22°C)
Non-Extended Stem - GRAFOIL® Packing, Gasket and PFA Seat
Dimensional data
All Dimensional Data are in inches.
Threaded Ends

Size		"A"		"B"		"D"		"T" NPT	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
¼"	8	2⅝"	67	4⅝"	117	2"	51	¼"	6
½"	15			5"	127	2⅜"	60	½"	13
¾"	20	3 3/16"	81	5¾"	146	2¾"	70	¾"	19
1"	25	3¾"	95	6¾"	171	3"	76	1"	25
1½	40	4¾"	121	8⅝"	219	4"	102	1½"	38
2"	50	5¾"	146	9½"	241	4¾"	121	2"	51

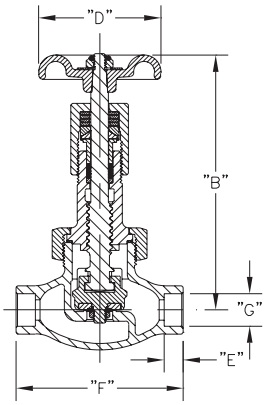
Bronze Globe Valve for Cryogenic Service
202X Series Including 206LL, 206GF, 206ULL, 206BLL



206LL
Pressure Rating 600 psig (42 barg)
Temperature Rating +150° F to -325° F (+65°C to -198°C)
Live Load Packing
Union Bonnet

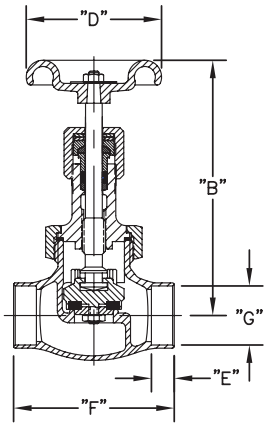
Dimensional Data
Threaded Ends

Size		"A"		"B"		"D"		"T" NPT	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
¼"	8	2⅝"	67	5"	127	2⅜"	60	¼"	6
⅜"	10							⅜"	9
½"	15							½"	13
¾"	20	3 3/16"	81	5¾"	146	2¾"	70	¾"	19
1"	25	3¾"	95			3"	76	1"	25



Sil Brazed Ends

Size		"B"		"D"		"G"		"E"		"F"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
¼"	8	5"	127	2⅜"	60	0.36	10	.26	7	2⅜"	60
½"	15					0.63	16	.38	10	3¼"	82
1"	25	6¾"	171	3"	76	1.13	29	.44	11	4¼"	108

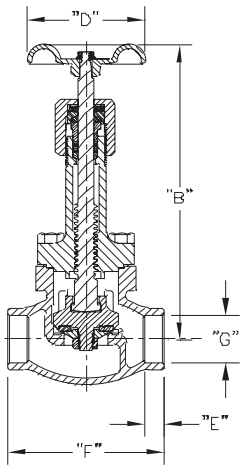


206ULL
Pressure Rating 600 psig (42 barg)
Temperature Rating +150° F to -325° F (+65°C to -198°C)
Live Load Packing - Union Bonnet

Dimensional Data

Sil Brazed Ends

Size		"F"		"B"		"D"		"T" NPT	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	4¾"	121	8⅝"	219	4"	102	1½"	38
2"	50	5¾"	146	11¾"	298	4¾"	121	2"	51



206BLL
Pressure Rating 600 psig (42 barg)
Temperature Rating +150°F to -325°F (+65°C to -198°C)
Live Load Packing - Bolted Bonnet

Dimensional Data

Sil Brazed Ends

Size		"B"		"D"		"G"		"E"		"F"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1½"	40	8⅝"	219	4"	102	1.62/1.64	41/42	.63	16	5¼"	133

Bronze/Stainless Steel Body Globe Valve for Cryogenic Service
SKB Series

Application

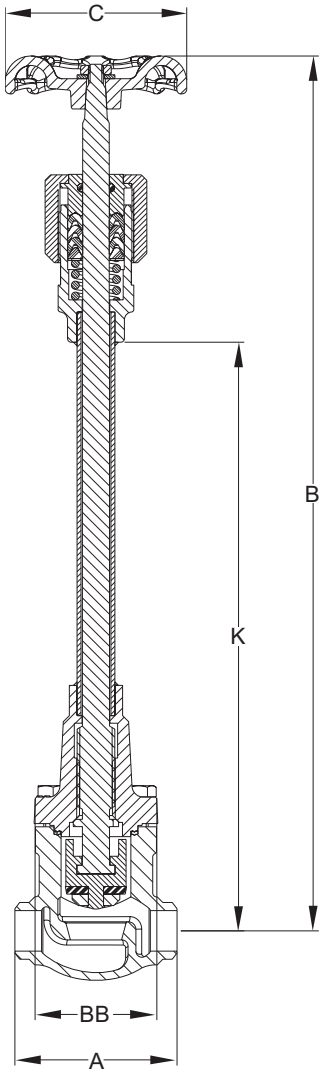
The SKB Series globe valves are designed for the handling of cryogenic liquids through trailer, bulk tanks and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance. Internal components are the same for BB Series. Also available in short stem version.

REGO 10 YEAR WARRANTY

Features

- **Superior Flow**: Provides high Cv for rapid and reliable trailer and tank loading and unloading
- **Top Entry**: This valve can be permanently installed in the line and serviced from the top. Bolted bonnet style provides secure integrity
- **Soft Seated**: Conical PCTFE seat provides a bubble tight seal. Less chance of debris trapped in the seat and longer service life
- **Stem Packing**: V-Ring spring loaded packing provides extended service life without constant packing adjustment
- **Sizes**: 1/4"though 2" - (20mm through 50mm)
- **Ends**: Buttweld and Socket Weld
- **Service**: Liquefied and vaporized atmospheric gases, LNG for trailers, bulk tanks ISO containers and piping configurations
- **Temperature Rating**: -325ºF to +150ºF (-198ºC to +65ºC)
- **Pressure Rating**: (Cold, Non-Shock) 720 psig (50 barg)
- Cleaned for oxygen service per CGA G-4.1

SKB Series



Materials

Body	Stainless Steel ASTM A351
Upper Bonnet	Brass ASTM B16
Lower Bonnet	Bronze ASTM B283
Seat Disk	PCTFE ASTM D1430
Seat Retainer	Brass ASTM B16
Stem	Stainless Steel ASTM A582
Spring	Stainless Steel ASTM A313
Packing	PTFE
Handwheel	Chromate Coated Ductile Iron ASTM A395
Bonnet Gasket	PTFE, 25% Glass Filled
Fasteners	Stainless Steel ASTM A320

Ordering Information

Part Number	Size Inches	Size DN	Connection	A		B		C		BB		K		Cv (Kv)
				Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
SKB9402BW	¼"	8	Butt Weld	2.68	68	14.4	366	3	76	2	51	9.7	246	1.7 (1.47)
SKB9402SW			Socket Weld											
SKB9404BW	½"	15	Butt Weld											5.0 (4.30)
SKB9404SW			Socket Weld											
SKB9406BW	¾"	20	Butt Weld	3.62	92			4	102	2.66	67	9.5	241	9.4 (8.10)
SKB9406SW			Socket Weld											
SKB9408BW	1"	25	Butt Weld											14.0 (12.10)
SKB9408SW			Socket Weld											
SKB9412BW	1½"	40	Butt Weld	4.75	121	14.6	371	4.75	121	3.44	87	9.3	236	28.3 (21.60)
SKB9412SW			Socket Weld											
SKB9416BW	2"	50	Butt Weld	5.75	146	16.21	412	5.25	133	4.06	103	9.9	251	53 (45.80)
SKB9416SW			Socket Weld											

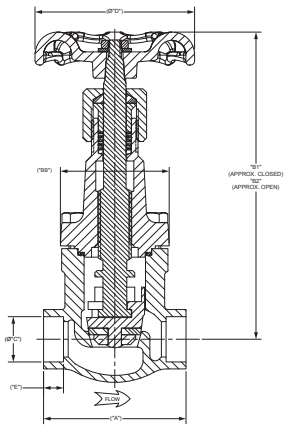
RegO - Goddard Bronze/Stainless Steel Body Globe Valve for Cryogenic Service. Short Stem SKB Series

Application

The SKB Series globe valves short stem are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance. Internal components are the identical with the BBS Series and SKB short Stem Series.

Features

- Superior Flow: Provides high Cv for rapid and reliable loading and unloading
- Designed with the unique Kold-Seal™
- Conical PCTFE Seat: provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life.
- Connections: NPT & SBT
- Sizes: ¼" to 2"
- Bonnet Type: Bolted
- Pressure Rating: 720 psig (50 barg)
- Temperature Rating: -325°F (-198°C) to +150°F (+65°C)
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations
- Cleaned for Oxygen Service per CGA G-4.1
- Recommended for vapor phase and non-permanent cryogenic liquid use



SKB9406BWS

REGO 10 YEAR WARRANTY

Materials

Body ..... Stainless Steel ASTM A351
Upper Bonnet .....Brass ASTM B16
Lower Bonnet .....Brass ASTM B283
Stem ..... Stainless Steel ASTM A582
Spring ..... Stainless Steel ASTM A313
Packing.....PTFE
Gasket .....PTFE 25% Glass Fill
Seat Disc .....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws ..... Stainless Steel ASTM A320
Handwheel..... Chromated Coated Ductile Iron ASTM A395

Ordering Information

Part Number	Size		Connection	A		B1		B2		C		D		E		BB		Cv (Kv)	Weight lbs. (Kg)
	Inches	DN		Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
SKB9402BWS	¼"	8	Butt Weld	2.68	68	5.79	147	6.24	158	0.56	14	3.00	76	0.37	9	2.05	52	1.7 (1.47)	5.72 (2.59)
SKB9404BWS	½"	15								0.86	22							5 (4.30)	
SKB9406BWS	¾"	20		3.62	92	6.15	156	6.68	170	1.07	27	4.00	102	0.50	13	2.65	67	9.4 (8.10)	
SKB9408BWS	1"	25								1.33	34							14 (12.10)	
SKB9412BWS	1½"	40		4.75	121	7.2	183	7.93	201	1.92	49	4.75	121			3.54	90	28.3 (21.60)	7.97 (3.61)
SKB9416BWS	2"	50		5.75	146	8.85	225	9.84	250	2.41	61	5.25	133	0.62	16	4.04	103	53 (45.80)	13.15 (5.96)
SKB9402SWS	¼"	8	Socket Weld	2.68	68	5.79	147	6.24	158	0.56	14	3.00	76	0.37	9	2.05	52	1.7 (1.47)	5.72 (2.59)
SKB9404SWS	½"	15								0.86	22							5 (4.30)	
SKB9406SWS	¾"	20		3.62	92	6.15	156	6.68	170	1.07	27	4.00	102	0.50	13	2.65	67	9.4 (8.10)	
SKB9408SWS	1"	25								1.33	34							14 (12.10)	
SKB9412SWS	1½"	40		4.75	121	7.2	183	7.93	201	1.92	49	4.75	121			3.54	90	28.3 (21.60)	7.97 (3.61)
SKB9416SWS	2"	50		5.75	146	8.85	225	9.84	250	2.41	61	5.25	133	0.62	16	4.04	103	53 (45.80)	13.15 (5.96)

Stainless Steel Globe Valves for Cryogenic Service
SKL Advantage Series Long Stem

Application

The SK Advantage Series of Stainless Steel Globe Valves are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. Ideal service medium includes oxygen, nitrogen, krypton, carbon dioxide, dinitrogen monoxide, carbon dioxide, methane, ethane, ethylene, argon and LNG . Our Kold-Seal stem seal technology assures a tight seal preventing cryogen gas loss. The conical seat design allows exceptional flow, positive shutoff and less chance of debris accumulation in the flow path, all resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy.

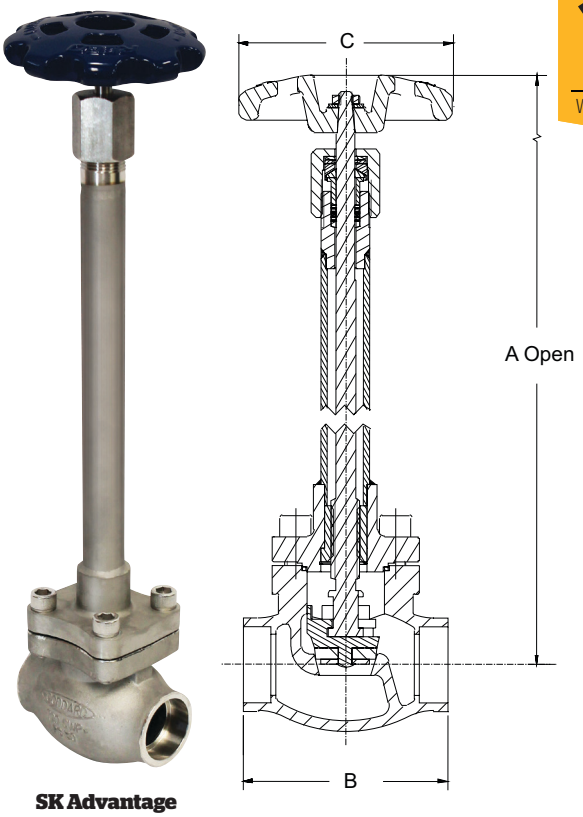
Features

- **Soft Seat:** PCTFE material which is the most widely specified cryogenic seat material in the industry
- **Construction:** Bolted bonnet allows easy access to the valve internals for servicing
- **Stem Packing:** Proven Kold-Seal technology, Live Loaded PTFE
- **Sizes:** ¼" through 2"
- **Connection:** Socket weld and butt weld
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -320°F to +150°F (-198°C to +65°C)
- **Pressure Rating:** Cold, Non-Shock, 725 psig (50 barg) Class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1
- **Application:** Multiple stem lengths available for selected service
- **Packaging:** Each valve is individually bagged and boxed to arrive in factory new condition until installation
- **Weld-in-place** - No disassembly required to install into a system*

Materials

Body ..... Stainless Steel ASTM A351 CF8
Bonnet and Tube .. Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem .....Stainless Steel ASTM A582 S30300
Spring.....Stainless Steel ASTM A313 S30200
Packing..... Live Loaded PTFE Packing
Gasket.....PTFE 25% Glass Fill
Seat Disc.....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws .....ASTM F837
Handwheel..... Painted Aluminum

REGO 10 YEAR WARRANTY



SK Advantage

Quality / Facility Features

- Material traceability in accordance with BS EN 10204 3.1
- CE Marking per European Pressure Equipment Directive

TPED & PED Certified CE

Ordering Information

Part Number	Size Inches	Size DN	Connection	A Inches	A mm	B Inches	B mm	C Inches	C mm	Cv	Kv	Weight lbs	Weight kg
SKL9402SW	¼"	8	Socket Weld	14.6	370	2.7	68	4	102	1.7	1.47	3.76	1.70
SKL9403SW	3/8"	10		14.5	368					3.2	3.7		
SKL9404SW	½"	15		14.6	370					5	4.30	3.47	1.68
SKL9406SW	¾"	20				3.6	92			9.4	8.10	5.17	2.34
SKL9408SW	1"	25								14	12.10	5.34	2.42
SKL9410SW	1¼"	32				4.7	121	5	127	23.0	26.6	9.51	4.32
SKL9412SW	1½"	40								28.3	24.45	9.48	4.30
SKL9416SW	2"	50		14.5	368	5.7	146			53	45.8	16.3	7.39
SKL9402BW	¼"	8	Butt Weld	14.6	370	2.7	68	4	102	1.7	1.47	3.76	1.70
SKL9403BW	3/8"	10		14.5	368					3.2	3.7		
SKL9404BW	½"	15		14.6	370					5	4.30	3.47	1.68
SKL9406BW	¾"	20				3.6	92			9.4	8.10	5.17	2.34
SKL9408BW	1"	25								14	12.10	5.34	2.42
SKL9410BW	1¼"	32				4.7	121	5	127	23.0	26.6	9.57	4.35
SKL9412BW	1½"	40								28.3	24.45	9.48	4.30
SKL9416BW	2"	50		14.5	368	5.7	146			53	45.80	16.3	7.39

SW = Socket Weld; BW = Butt Weld
* Other end connection options are available per request

Stainless Steel Globe Valves for Cryogenic Service
SKM Advantage Series Medium Stem

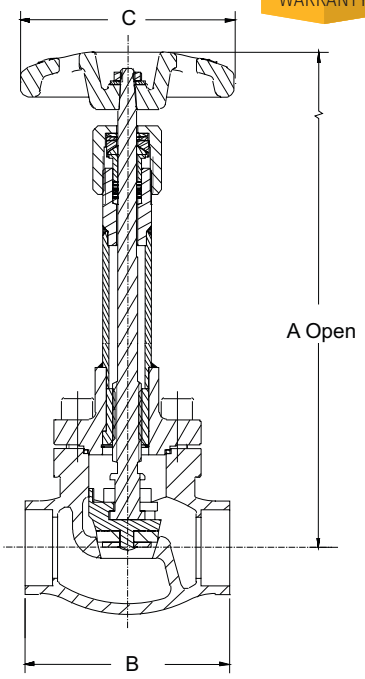
Application

The SK Advantage Series of Stainless Steel Globe Valves are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. Ideal service medium includes oxygen, nitrogen, krypton, carbon dioxide, dinitrogen monoxide, carbon oxide, methane, ethane, ethylene, argon and LNG . Our Kold-Seal stem seal technology assures a tight seal preventing cryogen gas loss. The conical seat design allows exceptional flow, positive shutoff and less chance of debris accumulation in the flow path, all resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy.

Features

- **Soft Seat:** PCTFE material which is the most widely specified cryogenic seat material in the industry
- **Construction:** Bolted bonnet allows easy access to the valve internals for servicing
- **Stem Packing:** Proven Kold-Seal technology, Live Loaded PTFE
- **Sizes:** ¼" through 2"
- **Connection:** Socket weld and butt weld
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F to +150°F (-198°C to +65°C)
- **Pressure Rating:** Cold, Non-Shock, 725 psig (50 barg) Class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1
- **Application:** Multiple stem lengths available for selected service
- **Packaging:** Each valve is individually bagged and boxed to arrive in factory new condition until installation
- **Weld-in-place** - No disassembly required to install into a system*

REGO 10 YEAR WARRANTY



SKM9406BW

Materials

Body ..... Stainless Steel ASTM A351 CF8
Bonnet and Tube .. Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem .....Stainless Steel ASTM A582 S30300
Spring .....Stainless Steel ASTM A313 S30200
Packing..... Live Loaded PTFE Packing
Gasket .....PTFE 25% Glass Fill
Seat Disc .....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws .....ASTM F837
Handwheel..... Painted Aluminum

Quality / Facility Features

- Material traceability in accordance with BS EN 10204 3.1
- CE Marking per European Pressure Equipment Directive

TPED & PED Certified CE

Ordering Information

Part Number	Size Inches	Size DN	Connection	A Inches	A mm	B Inches	B mm	C Inches	C mm	Cv	Kv	Weight lbs	Weight kg
SKM9402SW	¼"	8	Socket Weld	10.6	270	2.7	68	4	102	1.7	1.47	3.31	1.50
SKM9403SW	3/8"	10		10.5	267					3.2	3.7		
SKM9404SW	½"	15		10.6	270					5	4.30	3.29	
SKM9406SW	¾"	20				3.6	92			9.4	8.10	4.86	2.20
SKM9408SW	1"	25								14	12.10	5.02	2.27
SKM9410SW	1¼"	32				4.7	121	5	127	23.0	26.6	8.95	4.07
SKM9412SW	1½"	40								28.3	24.45	8.92	4.04
SKM9416SW	2"	50				5.7	146			53	45.80	15.30	6.94
SKM9402BW	¼"	8	Butt Weld			2.7	68	4	102	1.7	1.47	3.31	1.50
SKM9403BW	3/8"	10		10.5	267					3.2	3.7	3.34	1.52
SKM9404BW	½"	15		10.6	270					5	4.30	3.29	1.48
SKM9406BW	¾"	20				3.6	92			9.4	8.10	4.86	2.20
SKM9408BW	1"	25								14	12.10	5.02	2.27
SKM9410BW	1¼"	32				4.7	121	5	127	23.0	26.6	9.01	4.10
SKM9412BW	1½"	40								28.3	24.45	8.92	4.04
SKM9416BW	2"	50				5.7	146			53	45.80	15.30	6.94

SW = Socket Weld; BW = Butt Weld
* Other end connection options are available per request

Stainless Steel Globe Valves for Cryogenic Service
SKS Advantage Series Short Stem

Application

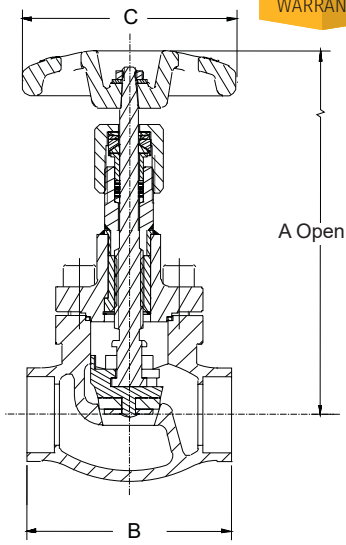
The SKS Series globe valves short stem are designed for handling of vapor phase and cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance. Recommended for vapor phase and intermittent cryogenic liquid use.

REGO 10 YEAR WARRANTY

Features

- Superior Flow: Provides high Cv for rapid and reliable loading and unloading
- Designed with the unique Kold-Seal™
- Conical PCTFE Seat: provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life
- Connections: Socket Weld & Butt Weld
- Sizes: ¼" to 1½"
- Bonnet Type: Bolted
- Pressure Rating: 720 psig (50 barg)
- Temperature Rating: -320°F (-196°C) to +150°F (+65°C)
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations
- Cleaned for Oxygen Service per CGA G-4.1
- Weld-in-place - No disassembly required to install into a system*

SKS9406BW



Materials

Body ..... Stainless Steel ASTM A351 CF8
Bonnet and Tube .. Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem .....Stainless Steel ASTM A582 S30300
Spring .....Stainless Steel ASTM A313 S30200
Packing..... Live Loaded PTFE Packing
Gasket .....PTFE 25% Glass Fill
Seat Disc .....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws .....ASTM F837
Handwheel..... Painted Aluminum

Quality / Facility Features

- Material traceability in accordance with BS EN 10204 3.1
- CE Marking per European Pressure Equipment Directive

PED Certified

Ordering Information

Part Number	Size Inches	Size DN	Connection	A Inches	A mm	B Inches	B mm	C Inches	C mm	Cv	Kv	Weight lbs	Weight kg
SKS9402SW	¼"	8	Socket Weld	6.7	170	2.7	68	4	102	1.7	1.47	2.64	1.20
SKS9403SW	3/8"	10								3.2	3.7	2.62	1.19
SKS9404SW	½"	15								5	4.30		
SKS9406SW	¾"	20				3.6	92			9.4	8.10	4.21	1.91
SKS9408SW	1"	25								14	12.10	4.10	1.86
SKS9410SW	1¼"	32		7.4	188	4.75	121	5	127	23.0	26.6	7.19	3.27
SKS9412SW	1½"	40				4.7	120			28.3	24.45	7.16	3.25
SKS9402BW	¼"	8	Butt Weld	6.7	170	2.7	68	4	102	1.7	1.47	2.64	1.20
SKS9403BW	3/8"	10								3.2	3.7	2.62	1.19
SKS9404BW	½"	15								5	4.30		
SKS9406BW	¾"	20				3.6	92			9.4	8.10	4.21	1.91
SKS9408BW	1"	25								14	12.10	4.10	1.86
SKS9410BW	1¼"	32		7.4	188	4.7	120	5	127	23.0	26.6	7.25	3.30
SKS9412BW	1½"	40								28.3	24.45	7.16	3.25

SW = Socket Weld; BW = Butt Weld
* Other end connection options are available per request

2 1/2” Stainless Steel Globe Valves for Cryogenic Service
SK Advantage 9420 Series

Application

The **SK stainless steel globe valves** are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. Line-loaded packing system and bonnet nut o-ring seal design assure a tight seal preventing gas loss. The conical seat design allows exceptional flow, positive shut-off and less chance of debris accumulation in the flow path - resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy. Ideal service medium includes oxygen, nitrogen, argon, carbon dioxide, nitrous oxide, methane, ethane, ethylene, krypton, carbon oxide and LNG.

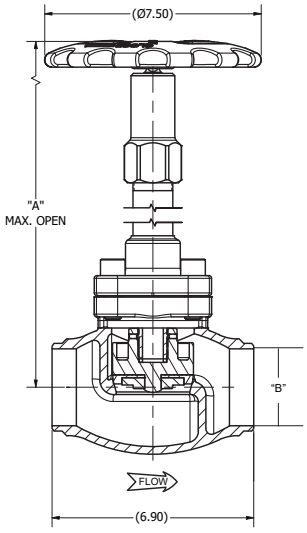
CRN REGISTERED
0C24071.2C

REGO 10 YEAR WARRANTY

REGO 100% TESTED

CLEANED FOR OXYGEN SERVICE O_2 CGA G-4.1

SKL9420 Series



SK Advantage 9420BW Series

Features

- Soft seat: PCTFE material which is the most widely specified cryogenic seat material in the industry
- Construction: Bolted bonnet allows easy access to the valve internals for servicing
- Stem Packing: Spring loaded PTFE
- Connection: Socket weld and SCH10 butt weld
- Temperature rating: -325ºF to + 150ºF (-198ºC to + 65ºC)
- Pressure rating: Cold, non-shock, 720 PSIG (50 BAR) class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1

Materials

Body ..... Stainless Steel ASTM A351 CF8
Bonnet & Tube..... Stainless Steel ASTM A351 CF8 / ASTM A479 Type 304
Stem ..... Stainless Steel ASTM A582 S30300
Spring ..... Stainless Steel ASTM A313 S30200
Packing ..... Live Loaded PTFE Packing
Gasket ..... PTFE 25% Glass Fill
Seat Disc ..... PCTFE ASTM D1430
Seat Retainer ..... Brass ASTM B16
Bonnet Screws ..... ASTM F837
Hardwheel ..... Painted Aluminum

Ordering Information

Part Number	Size Inches	Size DN	Connection*	A Inches	A mm	B Inches	B mm	Cv	Kv	Weight lbs	Weight kg
SKM9420SW	2 1/2”	65	Socket Weld	11.8	300	2.64	67.1	75	65	20.5	9.8
SKL9420SW				15.8	401						
SKM9420BW			Butt Weld	11.8	300	2.68	60.1				
SKL9420BW				15.8	401						

* Other connection options available upon request

3” Stainless Steel Globe Valves for Cryogenic Service
SK Advantage 9424 Series

Application

The **SK stainless steel globe valves** are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. RegO Live-loaded packing system and bonnet nut o-ring seal design assure a tight seal preventing gas loss. The conical seat design allows exceptional flow, positive shut-off and less chance of debris accumulation in the flow path - resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy. Ideal service medium includes oxygen, nitrogen, argon, carbon dioxide, nitrous oxide, methane, ethane, ethylene, krypton, carbon oxide and LNG.

CRN REGISTERED
0C24071.2C

REGO 10 YEAR WARRANTY

REGO 100% TESTED ★

CLEANED FOR OXYGEN SERVICE O_2 CGA G-4.1

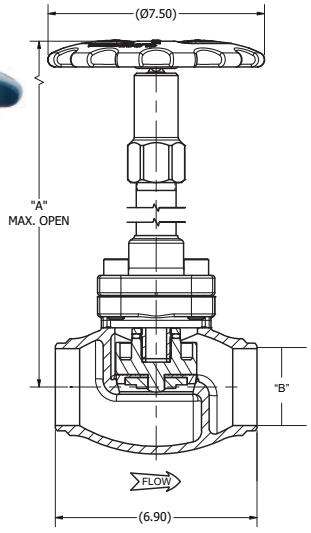
Features

- Soft seat: PCTFE material which is the most widely specified cryogenic seat material in the industry
- Construction: Bolted bonnet allows easy access to the valve internals for servicing
- Stem Packing: Spring loaded PTFE
- Connection: Socket weld and SCH10 butt weld
- Temperature rating: -325ºF to + 150ºF (-198ºC to + 65ºC)
- Pressure rating: Cold, non-shock, 720 PSIG (50 BAR) class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1

Materials

Body ..... Stainless Steel ASTM A351 CF8
Bonnet & Tube..... Stainless Steel ASTM A351 CF8 / ASTM A479 Type 304
Stem ..... Stainless Steel ASTM A582 S30300
Spring ..... Stainless Steel ASTM A313 S30200
Packing ..... Live Loaded PTFE Packing
Gasket ..... PTFE 25% Glass Fill
Seat Disc ..... PCTFE ASTM D1430
Seat Retainer ..... Brass ASTM B16
Bonnet Screws ..... ASTM F837
Hardwheel ..... Painted Aluminum

SKL9424 Series



SK Advantage 9420BW Series

Ordering Information

Part Number	Size Inches	Size DN	Connection*	A Inches	A mm	B Inches	B mm	Cv	Kv	Weight lbs	Weight kg
SKL9424SW	3”	80	Socket Weld	16.3	414	3.52	89.4	115	100	33.1	15
SKL9424BW			Butt Weld			3.26	82.8				

* Other connection options available upon request

Stainless Steel Globe Valves for Cryogenic Service
SK Advantage Series Long Stem Threaded Connection

Application

The SK Advantage Series of Stainless Steel Globe Valves are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. Ideal service medium includes oxygen, nitrogen, krypton, carbon dioxide, dinitrogen monoxide, carbon dioxide, methane, ethane, ethylene, argon and LNG . Our Kold-Seal stem seal technology assures a tight seal preventing cryogen gas loss. The conical seat design allows exceptional flow, positive shutoff and less chance of debris accumulation in the flow path, all resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy.

Features

- **Soft Seat:** PCTFE material which is the most widely specified cryogenic seat material in the industry
- **Construction:** Bolted bonnet allows easy access to the valve internals for servicing
- **Stem Packing:** Proven Kold-Seal technology, Live Loaded PTFE
- **Sizes:** ¼" through 2"
- **Connection:** Threaded NPT
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -320°F to +150°F (-198°C to +65°C)
- **Pressure Rating:** Cold, Non-Shock, 725 psig (50 barg) Class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1
- **Application:** Multiple stem lengths available for selected service
- **Packaging:** Each valve is individually bagged and boxed to arrive in factory new condition until installation

Materials

Body ..... Stainless Steel ASTM A351 CF8
Bonnet and Tube .. Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem .....Stainless Steel ASTM A582 S30300
Spring.....Stainless Steel ASTM A313 S30200
Packing..... Live Loaded PTFE Packing
Gasket.....PTFE 25% Glass Fill
Seat Disc.....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws..... .....ASTM F837
Handwheel..... Painted Aluminum

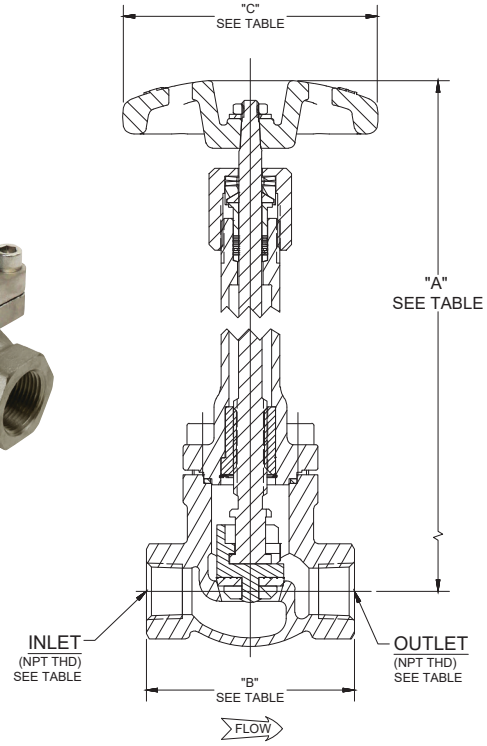
Quality / Facility Features

- Material traceability in accordance with BS EN 10204 3.1
- CE Marking per European Pressure Equipment Directive

TPED & PED Certified

REGO 10 YEAR WARRANTY

SKL9408T



Ordering Information

Part Number	Size Inches	Size DN	Connection	A Inches	A mm	B Inches	B mm	C Inches	C mm	Cv	Kv	Weight lbs	Weight kg
SKL9403T	3/8"	10	Threaded NPT	14.5	368	3.09	78.48	4	102	3.2	3.7	3.46	1.57
SKL9404T	½"	15		14.6	370					5	4.30	3.47	1.68
SKL9406T	3/4"	20				3.95	100			9.4	8.1	5.34	2.42
SKL9408T	1"	25					100.33			14	12.10		
SKL9410T	1¼"	32				4.75	121	5	127	23.0	26.6	9.94	4.52
SKL9412T	1½"	40				5.00	127			28.3	24.45	9.48	4.30
SKL9416T	2"	50		14.5	368	5.92	150.37			53	45.8	16.3	7.39

100 RegO Dr. Elon, NC 27244 USA www.regoproducts.com

Stainless Steel Globe Valves for Cryogenic Service
SK Advantage Series Medium Stem Threaded Connection

Application

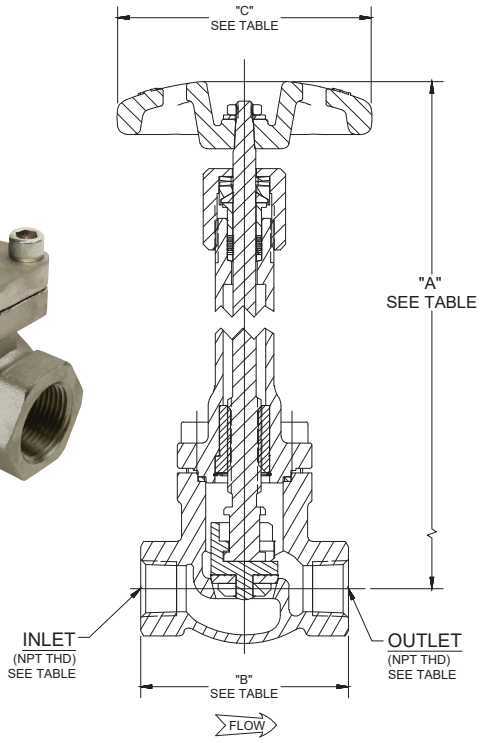
The SK Advantage Series of Stainless Steel Globe Valves are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. Ideal service medium includes oxygen, nitrogen, krypton, carbon dioxide, dinitrogen monoxide, carbon oxide, methane, ethane, ethylene, argon and LNG . Our Kold-Seal stem seal technology assures a tight seal preventing cryogen gas loss. The conical seat design allows exceptional flow, positive shutoff and less chance of debris accumulation in the flow path, all resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy.

REGO 10 YEAR WARRANTY

Features

- **Soft Seat:** PCTFE material which is the most widely specified cryogenic seat material in the industry
- **Construction:** Bolted bonnet allows easy access to the valve internals for servicing
- **Stem Packing:** Proven Kold-Seal technology, Live Loaded PTFE
- **Sizes:** ¼" through 2"
- **Connection:** Threaded NPT
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F to +150°F (-198°C to +65°C)
- **Pressure Rating:** Cold, Non-Shock, 725 psig (50 barg) Class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1
- **Application:** Multiple stem lengths available for selected service
- **Packaging:** Each valve is individually bagged and boxed to arrive in factory new condition until installation

SKM9408T



Materials

Body ..... Stainless Steel ASTM A351 CF8
Bonnet and Tube .. Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem .....Stainless Steel ASTM A582 S30300
Spring .....Stainless Steel ASTM A313 S30200
Packing..... Live Loaded PTFE Packing
Gasket .....PTFE 25% Glass Fill
Seat Disc .....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws .....ASTM F837
Handwheel..... Painted Aluminum

Quality / Facility Features

- Material traceability in accordance with BS EN 10204 3.1
- CE Marking per European Pressure Equipment Directive

TPED & PED Certified CE

Ordering Information

Part Number	Size Inches	Size DN	Connection	A Inches	A mm	B Inches	B mm	C Inches	C mm	Cv	Kv	Weight lbs	Weight kg
SKM9403T	3/8"	10	Threaded NPT	10.5	267	3	76	4	102	3.2	3.7	3.47	1.58
SKM9404T	½"	15		10.6	270	3.09	78.48			5	4.30	3.29	1.48
SMK9406T	3/4"	20				3.95	100			9.4	8.1	4.86	2.2
SKM9408T	1"	25					100.33			14	12.10	5.02	2.27
SKM9410T	1¼"	32				4.75	121	5	127	23.0	26.6	9.38	4.26
SKM9412T	1½"	40				5.00	127.00			28.3	24.45	8.92	4.04
SKM9416T	2"	50				5.92	150.37			53	45.80	15.30	6.94

Stainless Steel Globe Valves for Cryogenic Service
SK Advantage Series Short Stem Threaded Connection

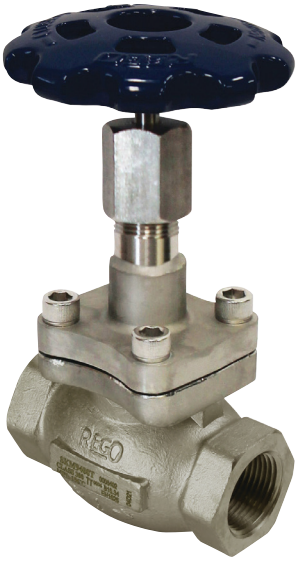
Application

The SKS Series globe valves short stem are designed for handling of vapor phase and cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance. Recommended for vapor phase and intermittent cryogenic liquid use.

REGO 10 YEAR WARRANTY

Features

- Superior Flow: Provides high Cv for rapid and reliable loading and unloading
- Designed with the unique Kold-Seal™
- Conical PCTFE Seat: provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life
- Connections: Socket Weld & Butt Weld
- Sizes: ¼" to 1½"
- Bonnet Type: Bolted
- Pressure Rating: 720 psig (50 barg)
- Temperature Rating: -320°F (-196°C) to +150°F (+65°C)
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations
- Cleaned for Oxygen Service per CGA G-4.1



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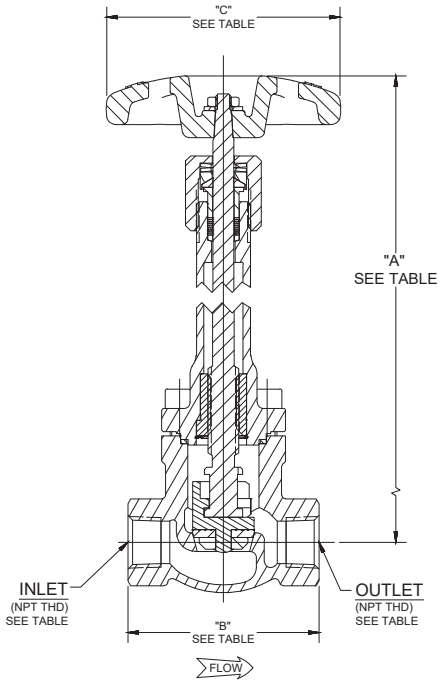


Materials

Body	Stainless Steel ASTM A351 CF8
Bonnet and Tube	Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem	Stainless Steel ASTM A582 S30300
Spring	Stainless Steel ASTM A313 S30200
Packing	Live Loaded PTFE Packing
Gasket	PTFE 25% Glass Fill
Seat Disc	PCTFE ASTM D1430
Seat Retainer	Brass ASTM B16
Bonnet Screws	ASTM F837
Handwheel	Painted Aluminum

Quality / Facility Features

- Material traceability in accordance with BS EN 10204 3.1
- CE Marking per European Pressure Equipment Directive

PED Certified

Ordering Information

Part Number	Size Inches	Size DN	Connection	A Inches	A mm	B Inches	B mm	C Inches	C mm	Cv	Kv	Weight lbs	Weight kg
SKS9403T	3/8"	10	Threaded NPT	6.7	170	3	76	4	102	3.2	3.7	2.62	1.19
SKS9404T	½"	15				3.09	78.48			5	4.30		
SKS9406T	3/4"	20				3.95	100			9.4	8.1	2.63	
SKS9408T	1"	25					100.33			14	12.10	4.10	1.86
SKS9410T	1¼"	32		7.4	188	4.75	121	5	127	23.0	26.6	7.62	3.46
SKS9412T	1½"	40				5.00	127.00			28.3	24.45	7.16	3.25

Stainless Steel Globe Valves for Cryogenic Service
SK Advantage Series Long Stem, Inlet Socket Weld, Outlet Threaded NPT

Application

The SK Advantage Series of Stainless Steel Globe Valves are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. Ideal service medium includes oxygen, nitrogen, krypton, carbon dioxide, dinitrogen monoxide, carbon dioxide, methane, ethane, ethylene, argon and LNG . Our Kold-Seal stem seal technology assures a tight seal preventing cryogen gas loss. The conical seat design allows exceptional flow, positive shutoff and less chance of debris accumulation in the flow path, all resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy.

REGO 10 YEAR WARRANTY

Features

- **Soft Seat:** PCTFE material which is the most widely specified cryogenic seat material in the industry
- **Construction:** Bolted bonnet allows easy access to the valve internals for servicing
- **Stem Packing:** Proven Kold-Seal technology, Live Loaded PTFE
- **Sizes:** ¼" through 2"
- **Connection:** Threaded NPT
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -320°F to +150°F (-198°C to +65°C)
- **Pressure Rating:** Cold, Non-Shock, 725 psig (50 barg) Class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1
- **Application:** Multiple stem lengths available for selected service
- **Packaging:** Each valve is individually bagged and boxed to arrive in factory new condition until installation

Materials

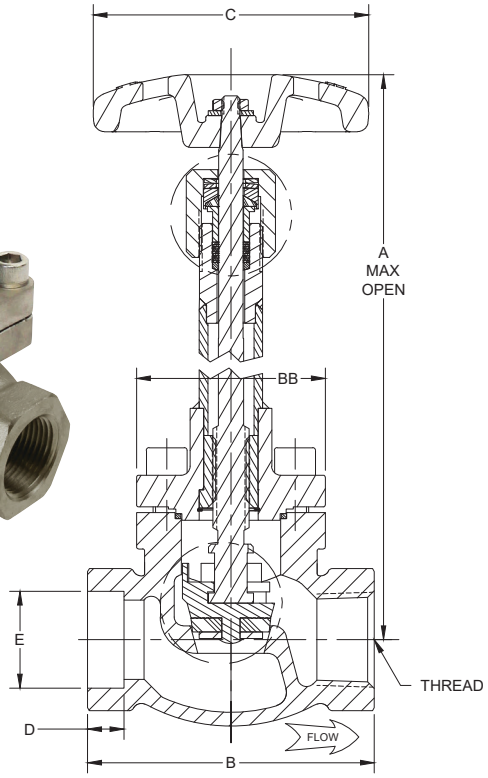
Body ..... Stainless Steel ASTM A351 CF8
Bonnet and Tube .. Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem .....Stainless Steel ASTM A582 S30300
Spring.....Stainless Steel ASTM A313 S30200
Packing..... Live Loaded PTFE Packing
Gasket.....PTFE 25% Glass Fill
Seat Disc.....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws .....ASTM F837
Handwheel..... Painted Aluminum

Quality / Facility Features

- Material traceability in accordance with BS EN 10204 3.1
- CE Marking per European Pressure Equipment Directive

TPED & PED Certified

SKL9408ST



Ordering Information

Part Number	Size Inches	Size DN	Connection		A Inches	A mm	B Inches	B mm	C Inches	C mm	Cv	Kv	Weight lbs	Weight kg
			Inlet	Outlet										
SKL9404ST	½"	15	Socket Weld	Threaded NPT	14.6	370	3.09	78.48	4	102	5	4.30	3.47	1.68
SKL9408ST	1"	25					3.95	100.33			14	12.10	5.34	2.42
SKL9412ST	1½"	40					5.00	127	5	127	28.3	24.45	9.48	4.30
SKL9416ST	2"	50			14.5	368	5.92	150.37			53	45.8	16.3	7.39

Stainless Steel Globe Valves for Cryogenic Service
SK Advantage Series Medium Stem, Inlet Socket Weld, Outlet Threaded NPT

Application

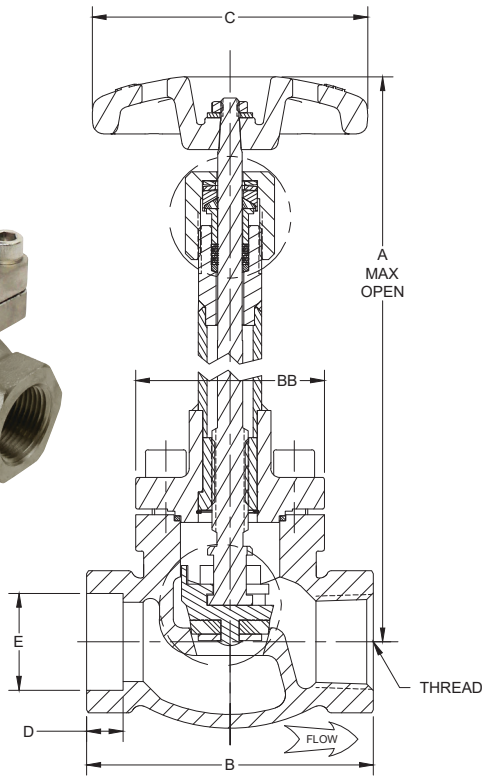
The SK Advantage Series of Stainless Steel Globe Valves are designed for handling cryogenic liquids through trailer, bulk vessels and piping configurations. Ideal service medium includes oxygen, nitrogen, krypton, carbon dioxide, dinitrogen monoxide, carbon oxide, methane, ethane, ethylene, argon and LNG . Our Kold-Seal stem seal technology assures a tight seal preventing cryogen gas loss. The conical seat design allows exceptional flow, positive shutoff and less chance of debris accumulation in the flow path, all resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy.

REGO 10 YEAR WARRANTY

Features

- **Soft Seat:** PCTFE material which is the most widely specified cryogenic seat material in the industry
- **Construction:** Bolted bonnet allows easy access to the valve internals for servicing
- **Stem Packing:** Proven Kold-Seal technology, Live Loaded PTFE
- **Sizes:** ¼" through 2"
- **Connection:** Threaded NPT
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -325°F to +150°F (-198°C to +65°C)
- **Pressure Rating:** Cold, Non-Shock, 725 psig (50 barg) Class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1
- **Application:** Multiple stem lengths available for selected service
- **Packaging:** Each valve is individually bagged and boxed to arrive in factory new condition until installation

SKM9408ST



Materials

Body	Stainless Steel ASTM A351 CF8
Bonnet and Tube	Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem	Stainless Steel ASTM A582 S30300
Spring	Stainless Steel ASTM A313 S30200
Packing	Live Loaded PTFE Packing
Gasket	PTFE 25% Glass Fill
Seat Disc	PCTFE ASTM D1430
Seat Retainer	Brass ASTM B16
Bonnet Screws	ASTM F837
Handwheel	Painted Aluminum

Quality / Facility Features

- Material traceability in accordance with BS EN 10204 3.1
- CE Marking per European Pressure Equipment Directive

TPED & PED Certified CE

Ordering Information

Part Number	Size Inches	Size DN	Connection		A Inches	A mm	B Inches	B mm	C Inches	C mm	Cv	Kv	Weight lbs	Weight kg
			Inlet	Outlet										
SKM9404ST	½"	15	Socket Weld	Threaded NPT	10.6	270	3.09	78.48	4	102	5	4.30	3.29	1.48
SKM9408ST	1"	25					3.95	100.33			14	12.10	5.02	2.27
SKM9412ST	1½"	40					5.00	127.00	5	127	28.3	24.45	8.92	4.04
SKM9416ST	2"	50					5.92	150.37			53	45.80	15.30	6.94

Stainless Steel Globe Valves for Cryogenic Service
SK Advantage Series Short Stem, Inlet Socket Weld, Outlet Threaded NPT

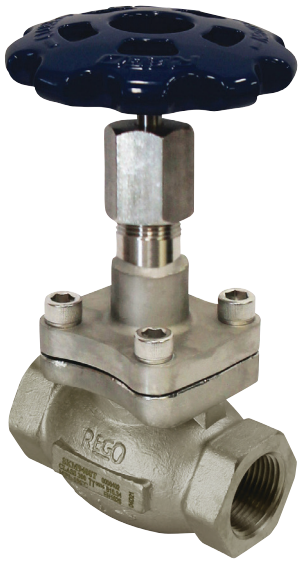
Application

The SKS Series globe valves short stem are designed for handling of vapor phase and cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Our time tested spring loaded stem packing and superior seat design provide for long life and easy maintenance. Recommended for vapor phase and intermittent cryogenic liquid use.

REGO 10 YEAR WARRANTY

Features

- Superior Flow: Provides high Cv for rapid and reliable loading and unloading
- Designed with the unique Kold-Seal™
- Conical PCTFE Seat: provides exceptional flow; bubble tight seal; less chance of debris trapped in the seat and longer service life
- Connections: Socket Weld & Butt Weld
- Sizes: ¼" to 1½"
- Bonnet Type: Bolted
- Pressure Rating: 720 psig (50 barg)
- Temperature Rating: -320°F (-196°C) to +150°F (+65°C)
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations
- Cleaned for Oxygen Service per CGA G-4.1



SKS9408T

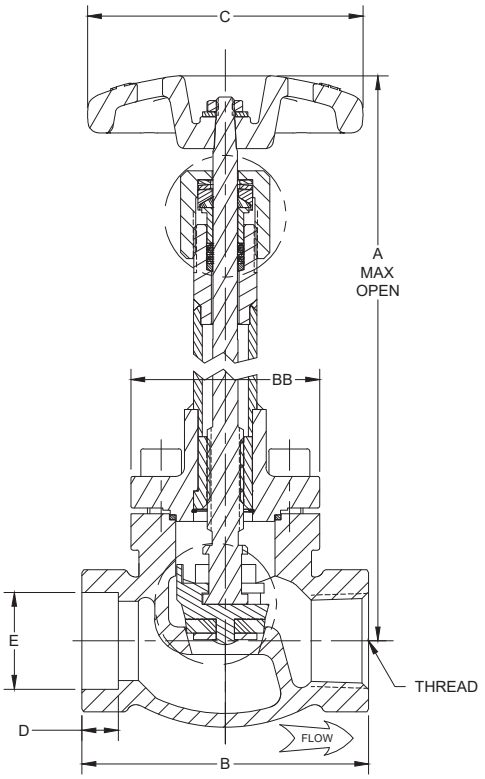
Materials

Body ..... Stainless Steel ASTM A351 CF8
Bonnet and Tube .. Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem .....Stainless Steel ASTM A582 S30300
Spring .....Stainless Steel ASTM A313 S30200
Packing..... Live Loaded PTFE Packing
Gasket .....PTFE 25% Glass Fill
Seat Disc .....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws .....ASTM F837
Handwheel..... Painted Aluminum

Quality / Facility Features

- Material traceability in accordance with BS EN 10204 3.1
- CE Marking per European Pressure Equipment Directive

PED Certified



Ordering Information

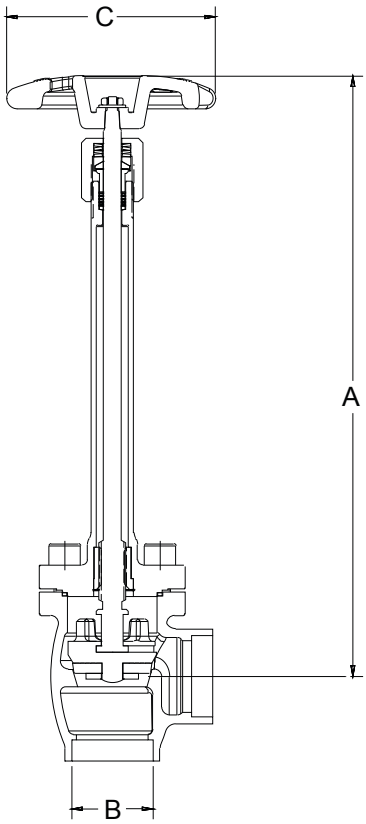
Part Number	Size Inches	Size DN	Connection		A Inches	A mm	B Inches	B mm	C Inches	C mm	Cv	Kv	Weight lbs	Weight kg
			Inlet	Outlet										
SKS9404ST	½"	15	Socket Weld	Threaded NPT	6.7	170	3.09	78.48	4	102	5	4.30	2.62	1.19
SKS9408ST	1"	25					3.95	100.33			14	12.10	4.10	1.86
SKS9412ST	1½"	40			7.0	178	5.00	127.00	5	127	28.3	24.45	7.16	3.25

Stainless Steel Angle Globe Valves for Cryogenic Service
SK Advantage Series

Application

RegO/Goddard stainless steel angle globe valves are designed for handling cryogenic liquids. Designed for fill manifolds applications of bulk tanks. RegO Kold-Seal™ stem seal technology assures a tight seal preventing gas loss. The conical seat design allows exceptional flow, positive shut off and less chance of debris accumulation in the flow path—resulting in an overall longer service life. Maintenance on the packing and seat is quick and easy. Ideal service medium includes oxygen, nitrogen, argon, carbon dioxide, nitrous oxide, methane, ethane, ethylene, krypton, and LNG.

REGO 10 YEAR WARRANTY



Features

- Sizes: 1" through 1½"
- Connection: Socket Weld
- Service: Liquefied and vaporized atmospheric gases, LNG
- Temperature rating: -320°F to +150°F (-196°C to +65°C)
- Pressure rating: Cold, Non-Shock, 720 psig (50 barg) Class 300 (PN 50)
- Cleaned and packaged for oxygen service per CGA G-4.1
- Soft Seat: PCTFE material which is the most widely specified cryogenic seat material in the industry
- Stem Packing: Proven Kold-Seal technology, live loaded PTFE.
- Conical seat, provides more Cv
- Seat assembly without nut and washer. No loose materials from vibration. Less chance of failure
- Pressure relief system of the bonnet increases life of packing system
- Ergonomics handwheels for ease of use
- 100% factory tested. Each valve is individually bagged and boxed to arrive in factory new condition until installation
- Weld-in-place - No disassembly required to install into a system*

Materials

Body ..... Stainless Steel ASTM A351 CF8
Bonnet and Tube .... Stainless Steel ASTM A351 CF8/ASTM A479 type 304
Stem .....Stainless Steel ASTM A582 S30300
Spring .....Stainless Steel ASTM A313 S30200
Packing..... Live Loaded PTFE Packing
Gasket .....PTFE 25% Glass Fill
Seat Disc .....PCTFE ASTM D1430
Seat Retainer.....Brass ASTM B16
Bonnet Screws .....ASTM F837
Handwheel..... Painted Aluminum

PED Certified

Ordering Information

Part Number	Size Inches	Size DN	Connection	A Inches	A mm	B Inches	B mm	C Inches	C mm	Weight lbs	Weight kg
SKA9408LSW	1"	25	Socket Weld	14.6	370	1.33	33.78	4	102	5.41	2.45
SKA9412LSW	1½"	40				1.92	48.77	5	127	8.85	4.01
SKA9408MSW	1"	25		10.6	270	1.33	33.78	4	102	5.0	2.2
SKA9412MSW	1½"	40				1.92	48.77	5	127	8.0	3.6

* Other end connection options are available per request

100 RegO Dr. Elon, NC 27244 USA www.regoproducts.com

Stainless Steel Globe Valve for Cryogenic Service
210 Series

Features

- **Top Entry**: This valve can be permanently installed in the line and serviced from the top
- **Soft Seated**: PCTFE Seat provides a bubble tight seal and is replaceable
- **Construction**: Body and Bonnet ASTM A351 J92600 Stainless steel
- **Sizes**: ½" - 4" (15mm - 100mm)
- **Ends**: RF Flange, Butt weld, Socket weld, Threaded (FNPT)
- **Service**: Liquefied and vaporized atmospheric gases, LNG
- **100% Factory Tested**
- **Clean for use in oxygen** per CGA G-4.1
- **Temperature Rating**: -320°F - 150°F (-196°C +65°C)
- **Pressure Rating**: (Cold, Non-shock)
  Class 150 valve - 275 psig (19 barg)
  Class 300 valve - 720 psig (50 barg)

  ½" - 4" Class 150
  PED Approved
  ½" - 4" Class 300
  PED Approved

Our investment cast stainless steel is specified by leading industrial gas companies for storage tank and yard operations. Special order bonnet extensions are available for cold box applications. Valves for hydrogen use can be supplied

210 Series

REGO 10 YEAR WARRANTY

Ordering Information

Stainless Body • RF Flange Ends

150# Part Number	300# Part Number	Valve Size		Ends	150# Weight		300# Weight		Estimated C_V (Kv)
		Inches	DN		Lbs.	Kg.	Lbs.	Kg.	
GS-00210W-8F	GS-00210W-8F3	1"	25	Flange	15	6.80	20	9.07	11.50 (9.94)
GS-00210W-16F	GS-00210W-16F3	2"	50		35	15.88	40	18.14	40.00 (34.60)
GS-00210W-24F	GS-00210W-24F3	3"	80		65	29.48	70	31.75	60.00 (51.90)
GS-00210W-32F	GS-00210W-32F3	4"	100		95	43.09	100	45.35	175 (151.37)

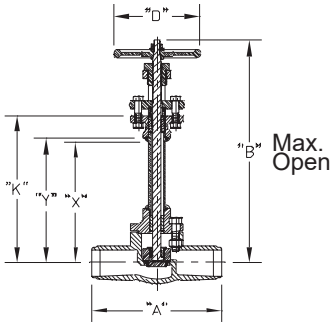
150# ANSI Class (275 psig (19 barg) Cold Working Pressure)
300# ANSI Class (720 psig (50 barg) Cold Working Pressure)

Stainless Body • Butt Weld, Socket Weld, Threaded Ends

300# Part Number	Valve Size		Ends	Weight		Estimated C_V (Kv)
	Inches	DN		Lbs.	Kg	
GS-00210W-4S3	½"	15	Socket Weld	15	6.80	3.90 (3.37)
GS-00210W-4T3			Threaded			
GS-00210W-6S3	¾"	20	Socket Weld			7.10 (6.14)
GS-00210W-6T3			Threaded			
GS-00210W-8S3	1"	25	Socket Weld			11.50 (9.94)
GS-00210W-8T3			Threaded			
GS-00210W-12S3	1½"	40	Socket Weld	25	11.34	29.00 (25.08)
GS-00210W-16W3A	2"	50	Butt Weld SCH10	35	15.88	40.00 (34.60)
GS-00210W-16W3J			Butt Weld SCH40			
GS-00210W-24W3A	3"	80	Butt Weld SCH10	55	24.95	60.00 (51.90)
GS-00210W-24W3J			Butt Weld SCH40			
GS-00210W-32W3A	4"	100	Butt Weld SCH10	80	36.29	175.00 (151.37)
GS-00210W-32W3J			Butt Weld SCH40			
LOX00210W-24W3A**	3"	80	Butt Weld SCH10	55	24.95	60.00 (51.90)
LOX00210W-32W3A**	4"	100	Butt Weld SCH10	80	36.29	175.00 (151.37)

* Second number indicates part number for 300# valve.
** LOX valves specifically for Liquid Oxygen Service, for more information on LOX valves see page 62
150# ANSI Class (275 psig (19 barg) Cold Working Pressure)
300# ANSI Class (720 psig (50 barg) Cold Working Pressure)

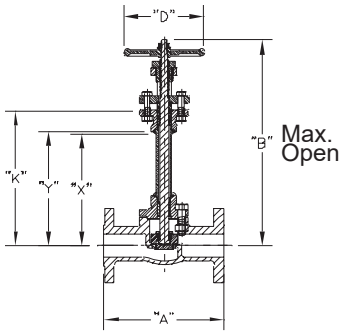
Stainless Steel Globe Valve for Cryogenic Service
210 Series



Butt Weld Ends

Size		"A"		"B"		"D"		"K"		"X"		"Y"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2"	50	10½"	267	22¼"	565	7"	178	15"	381	12¾"	324	13 1/16"	332
3"	80	12"	305	30½"	768	10"	254	21½"	546	19 1/16"	484	19⅜"	492
4"	100	13½"	343	36¾"	933	12"	305	24¼"	616	21 11/16"	551	22"	559

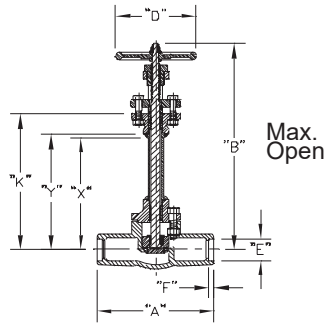
Δ For SCH. 40 A=12½"
Θ For SCH. 40 A=14"
* Unless otherwise specified, SCH 10 weld ends are supplied
● Special B,K,X & Y dimensions available.



Raised Face Flange Ends*

Size		"A" 150#		"A" 300#		"B"		"D"		"K"		"X"		"Y"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1"	25	6½"	165	8"	203	18⅛"	460	5"	127	12¾"	324	11 1/16"	484	11⅜"	289
2"	50	8"	203	10½"	267	22¼"	565	7"	178	15"	381	12¾"	324	13 1/16"	332
3"	80	9½"	241	12½"	317	30½"	775	10"	254	21½"	546	19 1/16"	484	19⅜"	492
4"	100	11½"	292	14"	356	36¾"	933	12"	305	24¼"	616	21 11/16"	551	22"	559

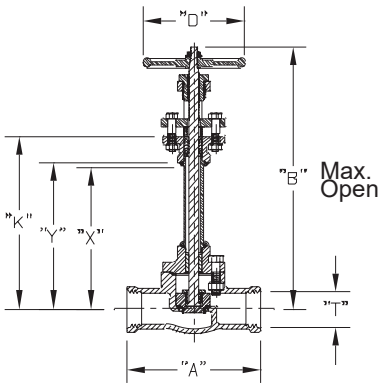
● Special B,K,X & Y dimensions available.



Socket Weld Ends

Size		"A"		"B"		"D"		"E"		"F"		"K"		"X"		"Y"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	5"	127	18⅛"	460	5"	127	.855	22	⅜"	9	12¾"	324	11 1/16"	281	11⅜"	289
¾"	20							1.06	27	½"	13						
1"	25							1.33	34								
1½"	40	10¼"	260	22¼"	565	7"	178	1.91	48			15"	381	12¾"	324	13 1/16"	332

● Special B,K,X & Y dimensions available.



Threaded Ends

Size		"T" - NPT		"A"		"B"		"D"		"K"		"X"		"Y"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	½"-14	13-356	5"	127	18⅛"	460	5"	127	12¾"	324	11 1/16"	281	11⅜"	289
¾"	20	¾"-14	19-356												
1"	25	1"-11½	25-292	5¾"	146										

● Special B,K,X & Y dimensions available.

Stainless Steel Globe Valve for Hydrogen Cryogenic Service
231 Series

Application

The RegO Goddard 231 Series Stainless Steel globe valves are designed for handling of cryogenic liquids through bulk tanks, trailers, ASU plants and piping configurations. Compatible with oxygen, nitrogen, CO2, hydrogen, helium and argon.

REGO 10 YEAR WARRANTY

Features

- **Top Entry**: Rugged stainless steel ASTM A351-CF3M (316L) soft seated cryogenic globe valve. This valve can be permanently installed in the line and serviced from the top
- **Soft Seated**: PCTFE Seat provides a bubble tight seal and is replaceable
- **Construction**: One piece investment cast bonnet eliminates welded joint in topworks
- **Stem Packing**: Proprietary Goddard system utilizing GRAFOIL® flexible graphite
- **Sizes**: ¼" through 1½" (6mm through 40mm)
- **Ends**: Socket weld, Butt weld
- **Temperature Rating**: -425°F to 150°F (-254°C to +65°C)
- **Pressure Rating**: (Cold, Non-shock)
  300 psig (20 barg)
  400 psig (27 barg)

  PED Approved

A rugged construction and easy access are design features which provide minimum installation and maintenance cost while maintaining superior performance and operator safety. This valve replaces higher cost bellows-seated valves in many applications. The proprietary Goddard GRAFOIL® stem packing system provides excellent performance when the valve operates in liquid hydrogen service.

231 Series

Ordering Information

Stainless Body • 400 psig (28 barg) Socket Weld Ends - Sized for SCH10 Pipe

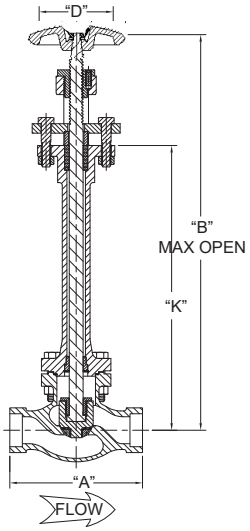
Part Number	Valve size Inches	Valve Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated C_V (Kv)
S-231-2S4	¼"	8	Socket Weld	6	2.72	1.30 (1.12)
S-231-4S4	½"	15				3.90 (3.37)
S-231-6S4	¾"	20		10	4.54	7.10 (6.14)
S-231-8S4	1"	25				10.50 (9.08)
S-231-12S4	1½"	40		15	6.80	25.00 (21.62)

Stainless Body • 300 psig (20 barg) Butt Weld Ends* SCH10 ENDS

Part Number	Valve size Inches	Valve Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated C_V (Kv)
S-231-4WA	½"	15	Butt Weld	6	2.72	3.90 (3.37)
S-231-8WA	1"	25		10	4.54	10.50 (9.08)
S-231-12WA	1½"	40		15	6.80	25.00 (21.62)

* For special treatment and testing, including cryogenic treatment, Charpy testing, and radiography testing, add 'H' to the end of the suffix (e.g. S-231-8WAH).

Stainless Steel Globe Valve for Cryogenic Service
231 Series

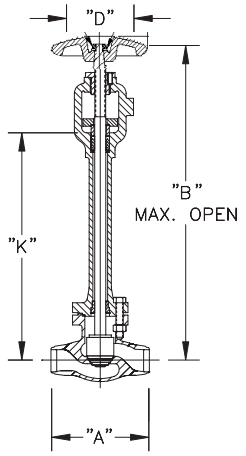


Pressure Rating 400 psig (28 barg)
Temperature Rating - 425° F to+150° F (-25°C to 65°C)
This valve is not approved for gaseous and/or liquid oxygen service
For oxygen service use Goddard series 232H cryogenic globe valve

Dimensional data

Socket Weld Ends - Sized for SCH10 Pipe

Size		"A"		"B"		"D"		"F"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
¼"	8	4¼"	108	$14^{9}/_{16}$"	370	4"	102	0.375	9	$10^{3}/_{16}$"	259
½"	15										
¾"	20	5⅜"	137	17"	432		127	0.500	13	11½"	292
1"	25					5"					
1½"	40	6½"	165	$18^{14}/_{16}$"	479					$12^{15}/_{16}$"	329



Pressure Rating 300 psig (20 barg)
Temperature Rating - 425° F to +150° F (-253°C to 65°C)
This valve is not approved for gaseous and/or liquid oxygen service
For oxygen service use Goddard series 232H cryogenic globe valve

Dimensional data

Butt Weld Ends - SCH10 END

Size		"A"		"B"		"D"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	4¼"	108	$14^{9}/_{16}$"	370	4"	102	$10^{3}/_{16}$"	259
1"	25	5"	127	17"	432	5"	127	11½"	292
1½"	40	6½"	165	18⅞"	479			$12^{5}/_{16}$"	313

Stainless Steel Globe Valve for Cryogenic Service
232 Series

Application

The RegO Goddard 232 Series Stainless Steel globe valves are designed for handling of cryogenic liquids through bulk tanks, trailers, ASU plants and piping configurations. Compatible with oxygen, nitrogen, CO2, helium and argon.

REGO 10 YEAR WARRANTY

Features

- **Top Entry**: Rugged stainless steel ASTM A351-CF3M (316L) soft seated cryogenic globe valve. This valve can be permanently installed in the line and serviced from the top
- **Soft Seated**: PCTFE Seat provides a bubble tight seal and is replaceable
- **Construction**: One piece investment cast bonnet eliminates welded joint in topworks.
- **Sizes**: ½" through 1½" (15mm through 40mm)
- **Ends**: Socket weld and Butt weld
- **Service**: Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating**: -325°F to 150°F (-198°C to +65°C)
- **Pressure Rating**: (Cold, Non-shock)
  300 psig (20 barg)
  400 psig (27 barg)

PED Approved,

A rugged construction and easy access are design features which provide minimum installation and maintenance cost while maintaining superior performance and operator safety.

232 Series

Ordering Information

Stainless Body Socket Weld Ends 400 psig (28 barg)

Part Number	Valve size Inches	Valve Size DN	Ends	Weight Lbs.	Weight Kg	Estimated C_V (Kv)
S-232-4S4	½"	15	Socket Weld	6	2.72	3.90 (3.37)
S-232-8S4	1"	25		10	4.54	10.50 (9.08)

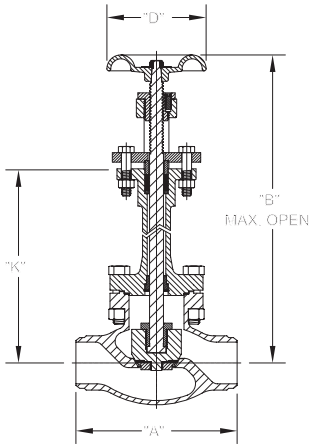
High Purity Cryogenic Bonnet Nickel Plated Naval Brass Yoke Bushing Stainless Steel Body Butt Weld Ends 300 psig (20 barg)

Part Number	Valve size Inches	Valve Size DN	Ends	Weight Lbs.	Weight Kg	Estimated C_V (Kv)
S-232HCB-4WA	½"	15	Butt Weld	6	2.72	3.90 (3.37)
S-232HCB-8WA	1"	25		10	4.54	10.50 (9.08)
S-232HCB-12WA	1½"	40		15	6.80	25.00 (21.62)

High Purity Cryogenic Bonnet Nickel Plated Naval Brass Yoke Bushing, Stainless Steel Body Socket Weld Ends 400 psig (28 barg)

Part Number	Valve size Inches	Valve Size DN	Ends	Weight Lbs.	Weight Kg	Estimated C_V (Kv)
S-232HCB-4S4	½"	15	Socket Weld	6	2.72	3.90 (3.37)
S-232HCB-8S4	1"	25		10	4.54	10.50 (9.08)
S-232HCB-12S4	1½"	40		15	6.80	25.00 (21.62)

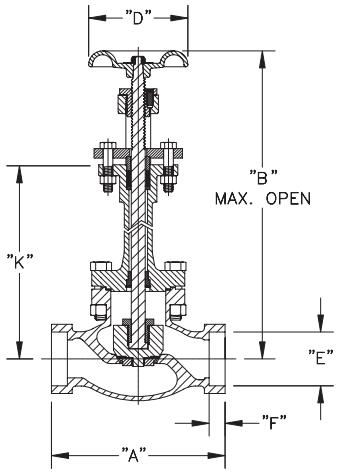
Stainless Steel Globe Valve for Cryogenic Service
232 Series



Pressure rating 300 psig (20 barg) non-shock cold
Temperature rating +150° F to -325° F (+65°C to -198°C)
Dimensional Data

Butt Weld Ends

Size		"A"		"B"		"D"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	4¼"	108	14 9/16"	370	2⅜"	60	10 3/16"	259
1"	25	5"	127	17"	432	3"	76	11½"	292
1½"	40	6"	152	18⅞"	479	4"	102	12 5/16"	313



Pressure rating 400 psig (28 barg) non-shock cold
Temperature rating +150° F to -325° F (+65°C to -198°C)
Dimensional Data

Socket Weld Ends

Size		"A"		"B"		"D"		"E"		"F"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	4¼"	108	14 9/16"	370	2⅜"	60	0.86	22	0.37	9	10 3/16"	259
1"	25	5⅜"	136	17"	432	3"	76	1.33	34	0.50	13	11 ½"	292
1½"	40	6½"	165	18⅞"	479	4"	102	1.92	49			12 5/16"	313

Cryogenic Fill Manifold
CSB & CSM Series

Application

RegO® Goddard high quality welded and welded assemblies are ideal for the manufacturer of original equipment for bulk cryogenic vessels. Using the same technology of our globe valves with SK Series bolt cap, stainless steel bodies and superior works and stainless steel construction pipes are available as a production unit with stainless steel control block and control block brass. Ideal for all cryogenic liquids including Liquefied Nitrogen, Oxygen Argon, and CO2. Safe and reliably used in LNG Systems. In addition, RegO® can custom design configurations that are welded and brazed in a factory setting.

REGO 10 YEAR WARRANTY

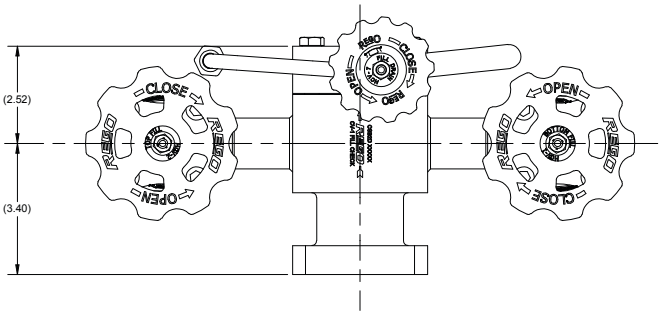
CSM2D

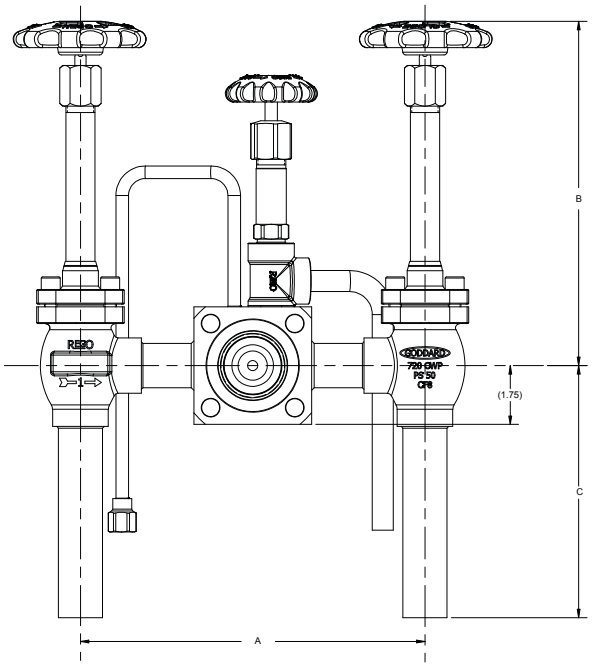
Features

- Unitized construction eliminates leaks and provides easy fit-up to tank piping
- Modules commonly include top and bottom fill valves, fill check with strainer and hose bleed and relief valve
- Many options are available which can include specific end user dimensions and specifications
- Our valve products stand up to high cycle environments, without the need for field adjustment of valve packing
- Available alone or as a unitized welded assembly for bulk tank filling
- Repeatable performance and geometry
- Precision silver brazed assembly
- Cleaned for Oxygen Service per CGA G-4.1
- Pressure Rating: 600 psig (41 barg)
- Temperature Rating: -320°F (-196°C) to +165°F (+74°C)
- 100% Factory tested

Materials

Globe Valve ..... Stainless Steel ASTM A351
Check Valve..... Stainless Steel ASTM A351
Bleed Valve .....Brass ASTM B16
Check Valve .....Brass ASTM B16
Bleed Valve ..... Stainless Steel ASTM A351
Tube ..... 304L Stainless Steel ASTM A312





Ordering Information

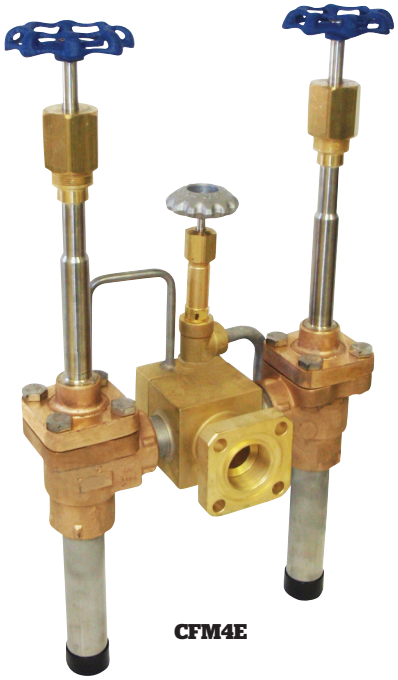
Part Number	Size Inches	Size DN	"Check Valve And Bleed Valve Material"	Dimensions						Cv (Kd)		
				A Inches	A mm	B Inches	B mm	C Inches	C mm	Right Side	Left Side	Both Sides
CSB2D	1	25	Brass	10.3	260	10.6	269	7.5	190.5	14.0 (12.1)	14.0 (12.1)	25.2 (21.8)
CSB4D	1 ½	40						15	381	21.0 (18.2)	21.0 (18.2)	34.5 (29.8)
CSM2D	1	25	Stainless Steel					7.5	190.5	14.0 (12.1)	14.0 (12.1)	25.2 (21.8)
CSM4D	1 ½	40						15	381	21.0 (18.2)	21.0 (18.2)	34.5 (29.8)

Cryogenic Fill Manifold
CFM, AFM & PFM Series

Application

RegO® Goddard high quality brazed and welded assemblies are ideally suited for the original equipment manufacturer of bulk cryogenic vessels. A wide variety of valve types including union or bolted bonnet, bronze bodies & top works and piping of stainless steel or copper construction are available as production unit.

Ideal for all cryogenic liquids including Liquefied Nitrogen, Oxygen, Argon, and CO2. In addition RegO® can custom design configurations that are welded and brazed in a factory setting.



CFM4E

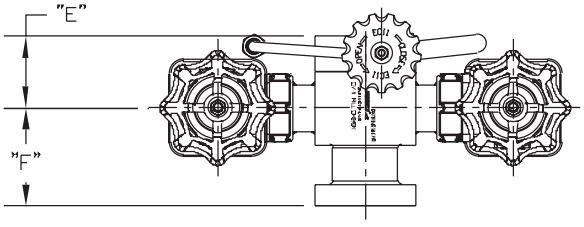
REGO 10 YEAR WARRANTY

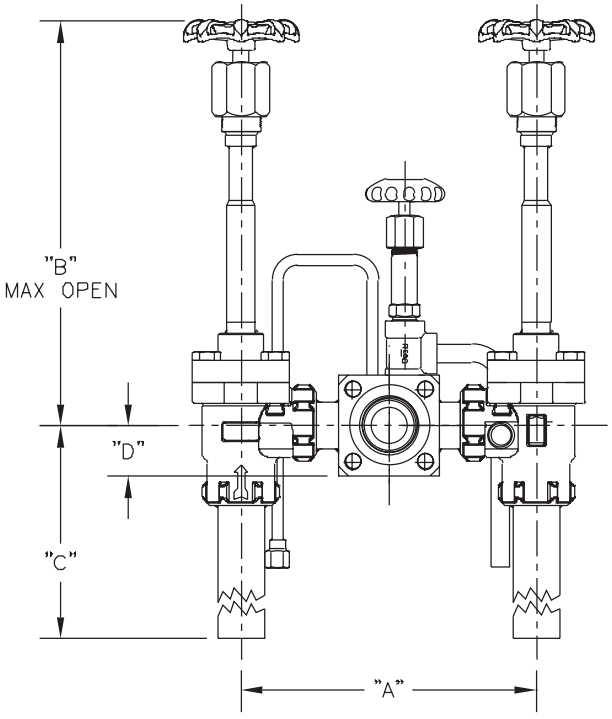
Features

- Unitized construction eliminates leaks and provides easy fit-up to tank piping
- Modules commonly include top and bottom fill valves, fill check with strainer and hose bleed and relief valve
- Many options are available which can include specific end user dimensions and specifications
- Our valve products stand up to high cycle environments, without the need for field adjustment of valve packing
- Available alone or as a unitized welded assembly for bulk tank filling
- Repeatable performance and geometry
- Precision silver brazed and welded assembly
- Cleaned for Oxygen Service per CGA G-4.1
- Pressure Rating: CFM, AFM & PFM Series 600 psig (41 barg)
- Temperature Rating: -320°F (-196°C) to +165°F (+74°C)
- 100% Factory tested

Materials

Globe Valve .....Brass ASTM B16
Check Valve .....Brass ASTM B16 "F Bleed
Valve .....Brass ASTM B16
Tube .....304L Stainless Steel or Copper





Ordering Information

Part Number	Size Inches	Size DN	Pipe Material	Bonnet Type	Dimensions						Cv (Kv)	
					A Inches	A mm	B Inches	B mm	C Inches	C mm	One side open	Both sides open
CFM2D	1"	25	Stainless Steel	Union	10.25	260.35	14.64	371.85	7.5	190.5	10.8 (9.34)	20.8 (17.99)
CFM4D	1½"	40					15	381	9.5	241.3		
CFM4E				Bolted			13	330.2				
AFM4D					15	381	14.64	371.85	20	508		
PFM4D			Copper									

Extended Bonnet Bronze Gate Valve for Cryogenic Service
322 and 326 Series

Application

The RegO Goddard 322 and 326 Series gate valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ASU plants and piping configurations. Compatible with oxygen, nitrogen, CO2, and argon.

Features

- **Top Entry:** This union bonnet valve can be permanently installed in the line and serviced from the top
- **Construction:**
  Bronze cast body and Internals
  Rugged construction for long life
  Straight through construction for high CV
  Designed with unique KOLD-SEAL™ packing
  Standard split wedge design provides better sealing and cycle life
- **Sizes:** ½" - 3" (15mm - 80mm)
- **Ends:** Threaded (FNPT), Sil Braze Tube (SBT), Silver Brazed Pipe (SBP) or with stainless steel pipe nipples brazed in
- **Service:** Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating:** -320°F to +150°F (-196°C + 65°C)
- **Pressure Rating:** (Cold, Non-shock)
  322 Series 400 psig (28 barg)
  326 Series 600 psig (42 barg)
- Cleaned for Oxygen Service per CGA G-4.1

  Designed to MSS SP-80 and ASME B31.3
  Series 1.5" to 3" PED Approved per EN 10204, 3.1

  Ideal for cryogenic supply and storage handling applications. Straight-through flow for highest CV rating in the industry.

  Also available with GRAFOIL® packing

REGO 10 YEAR WARRANTY

322 Series

Extended Bonnet Bronze Gate Valve for Cryogenic Service
322 and 326 Series

Ordering Information

322 Series

Bronze Gate Valves
400 psig (28 barg) COLD WORKING PRESSURE

Part Number	NPT Size Inches	NPT Size DN	Ends	Weight Lbs.	Weight Kg	Estimated Cv (Kv)
B-322-20T4	2½"	65	Threaded	19.00	8.64	372.00 (321.78)
B-322-24T4	3"	80		28.00	121.73	588.00 (508.62)

Part Number	SBT Size Inches*	SBT Size DN	Ends	Weight Lbs.	Weight Kg	Estimated Cv (Kv)
B-322-4S4	½"	15	Silver Braze	1.75	0.80	19.80 (17.12)
B-322-6S4	¾"	20		2.25	1.02	36.00 (31.14)
B-322-8S4	1"	25		3.50	1.59	60.80 (52.59)
B-322-12S4	1½"	40		7.50	3.41	152.00 (131.48)
B-322-16S4	2"	50		11.25	5.11	245.00 (211.92)
B-322-20S4	2½"	65		17.00	7.73	372.00 (321.78)
B-322-24S4	3"	80		24.00	10.91	588.00 (508.62)

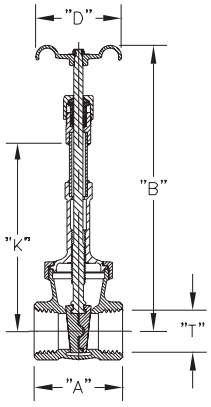
*Nominal Size

326 Series

Bronze Gate Valves
600 psig (42 barg) COLD WORKING PRESSURE

Part Number	NPT Size Inches	NPT Size DN	Ends	Weight Lbs.	Weight Kg	Estimated Cv (Kv)
B-326-4T6	½"	15	Threaded	1.75	0.80	19.80 (17.12)
B-326-6T6	¾"	20		2.25	1.02	36.00 (31.14)
B-326-8T6	1"	25		4.00	1.82	60.80 (52.59)
B-326-12T6	1½"	40		8.25	3.75	152.00 (131.48)
B-326-16T6	2"	50		12.50	5.68	245.00 (211.92)

Extended Bonnet Bronze Gate Valve for Cryogenic Service
322 and 326 Series

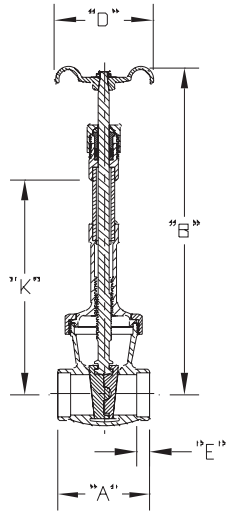


322 Series

MAWP: 400 psig (28 barg) Non-Shock Cold
Temperature Rating +150° F to -325°F (+65°C to -198°C)
Dimensional Data

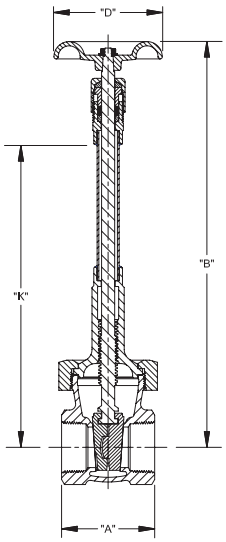
Threaded End (NPT)

Size		"A"		"B"		"D"		"K"		"T"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2½"	65	4.68"	119	22.5"	571	5.25"	133	14.5"	368	2½"	63
3"	80	5.12"	130	24.87"	632	6.12"	155	16.31"	414	3"	76



Sil Braze End

Size		"A"		"B"		"D"		"K"		"E"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	2.5"	63	9.38"	238	2.37"	60	5.5"	140	.38"	10
¾"	20	3"	76	10.56"	268	2.75"	70	6.12"	155	.40"	10
1"	25	3.25"	83	12.38"	314	3"	76	7.68"	195	.43"	11
1½"	40	4"	102	17"	432	4"	102	10.87"	276	.62"	16
2"	50	4.5"	114	19.62"	498	4.75"	121	12.38"	314	.65"	16
2½"	66	5.25"	133	22.5"	571	5.25"	133	14.5"	368	.78"	20
3"	80	6"	152	24.87"	632	6.12"	155	16.31"	414	.82"	21



326 Series

MAWP: 600 psig (42 barg) Non-Shock Cold
Temperature Rating +150° F to -325°F (+65°C to -198°C)
Dimensional Data

Threaded End (NPT)

Size		"A"		"B"		"D"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	2.34"	59	9.37"	238	2¼"	57	5.5"	140
¾"	20	2.5"	63	10.56"	268	2¾"	70	6.12"	155
1"	25	2.34"	59	12.37"	314	3"	76	7.6"	193
1½"	40	3.43"	87	17"	432	4"	102	10.87"	276
2"	50	3.81"	97	19.62"	498	4¾"	121	12.37"	314

Bronze Gate Valves for Cryogenic Service
302, 306, 310 & 310X Series

Application

The RegO Goddard 302, 306, 310, & 310X Series gate valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ASU plants and piping configurations. Compatible with oxygen, nitrogen, CO2, and argon.

Features

- **Top Entry**: This union bonnet valve can be permanently installed in the line and serviced from the top
- **Construction**:
  Bronze cast body and bonnet
  Rugged construction for long life
  Straight through design for high C_V
  Designed with unique KOLD-SEAL™
- **Sizes**: ½" - 3" (15mm - 80mm)
- **Ends**: Threaded (FNPT), Sil Braze Tube (SBT), or with stainless steel pipe nipples brazed in
- **Service**: Liquefied and vaporized atmospheric gases, LNG
- **Temperature Rating**: -320°F - +150°F (-196°C +65°C)
- Cleaned for Oxygen Service per CGA G-4.1
- **Pressure Rating**: (Cold, Non-shock)
  310, 310x Series 300 psig
  302 Series 400 psig (28 barg)
  306 Series 600 psig (42 barg)

  Designed to MSS SP-80 and ASME B31.3
  Sizes 1.5" - 3.0" PED approved
- **Soft Seated** Series 310 & 310X: Solid wedge with PCTFE (Neoflon®) provides a bubble tight seal and is replaceable
- **Metal Seated** Series 302 & 306: Split wedge made of Bronze and also replaceable

Gate design for high flow applications.
Straight-through flow for highest C_V rating in the industry.

302, 306 Non-Extended stem for selective cold gas applications

310, 310X Extended stem ideal for cryogenic supply applications

REGO 10 YEAR WARRANTY

302 Series

Ordering Information

302 Series

Bronze Gate Valves
Bronze Body Non-Extended Bonnet, Split Wedge
For selected cold gas operations
400 psig (28 barg) COLD WORKING PRESSURE
Temperature Rating -325°F to +150° F (-198°C TO +65°C)

Part Number	NPT Size Inches	NPT Size DN	Ends	Weight Lbs.	Weight Kg	Estimated C_V (Kv)
B-302-4T4	½"	15	Threaded	1.50	0.70	19.80 (17.12)
B-302-20T4	2½"	65		17.50	8.00	372.00 (321.78)
B-302-24T4	3"	80		26.00	11.80	588.00 (508.62)

Part Number	SBT Size Inches*	SBT Size DN*	Ends	Weight Lbs.	Weight Kg	Estimated C_V (Kv)
B-302-4S4	½"	15	Silver Braze	1.25	0.60	19.80 (17.12)
B-302-6S4	¾"	20		2.25	1.00	36.00 (31.14)
B-302-8S4	1"	25		3.00	1.40	60.80 (52.59)
B-302-12S4	1½"	40		6.00	2.70	152.00 (131.48)
B-302-16S4	2"	50		9.50	4.30	245.00 (211.92)
B-302-20S4	2½"	65		14.50	6.60	372.00 (321.78)
B-302-24S4	3"	80		22.00	10.00	588.00 (508.62)

*Nominal Size

306 Series

600 psig (42 barg) Bronze Body, Non-Extended Bonnet, Split Wedge
Temperature Rating -325°F to +150° F (-198°C TO +65°C)

Part Number	NPT Size Inches	NPT Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated C_V (Kv)
B-306-6T6	¾"	20	Threaded	2.25	1.00	36.00 (31.14)
B-306-8T6	1"	25		3.00	1.40	60.80 (52.59)
B-306-12T6	1½"	40		6.00	2.70	152.00 (131.48)
B-306-16T6	2"	50		9.50	4.30	245.00 (211.92)

310 Series

300 psig (20 barg)Bronze Body, Extended Bonnet, Solid Wedge, Soft Seat
Temperature Rating -325°F to +150° F (-198°C TO +65°C)

Part Number	NPT Size Inches	NPT Size mm	Ends	Weight Lbs.	Weight Kgs.	Estimated C_V (Kv)
B-310-20T	2½"	65	Threaded	14.50	6.60	372.00 (321.78)
B-310-24T	3"	80		22.00	10.00	588.00 (508.62)

Part Number	SBT Size Inches *	SBT Size DN *	Ends	Weight Lbs.	Weight Kgs.	Estimated C_V (Kv)
B-310-24S	3"	80	Silver Braze	22.00	10.00	588.00 (508.62)

*Nominal Size

310X Series

Short Top Works for Trailer Service
300 psig (20 barg)Bronze Body, Extended Bonnet, Solid Wedge, Soft Seat
Temperature Rating -325°F to +150° F (-198°C TO +65°C)

Part Number	NPT Size Inches	NPT Size DN	Ends	Weight Lbs.	Weight Kgs.	Estimated C_V (Kv)
B-310X-20T	2½"	65	Threaded	14.50	6.60	372.00 (321.78)
B-310X-24T	3"	80		22.00	10.00	588.00 (508.62)

Part Number	SBT Size Inches *	SBT Size DN *	Ends	Weight Lbs.	Weight Kgs.	Estimated C_V (Kv)
B-310X-24S	3"	80	Silver Braze	22.00	10.00	588.00 (508.62)

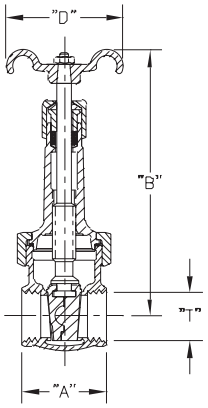
*Nominal Size

SB-00310X

Stainless Steel Body - Bronze Topworks
Temperature Rating -325°F to +150° F (-198°C TO +65°C)

Part Number	SBT Size Inches *	SBT Size DN *	Ends	Weight Lbs.	Weight Kgs.	Estimated C_V (Kv)
SB-310X-24SW	3"	80	Socketweld	22.00	10.00	588.00 (508.62)

Bronze Gate Valves for Cryogenic Service
302, 306 Series

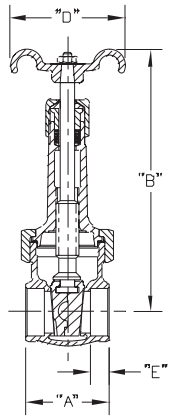


302 Series

MAWP: 400 psig (28 barg) Non-Shock Cold
Temperature Rating +150° F to -325°F (+65°C to -198°C)
Non-Extended Valve for selective cold gas applications
Dimensional Data

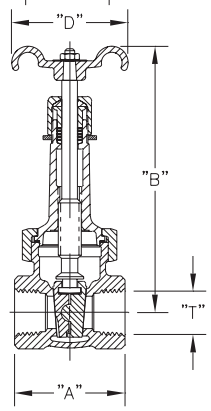
Threaded End (NPT)

Size		"A"		"B"		"D"		"T" NPT	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	2.34"	59	5.81"	147	2.37"	60	½"	13
2½"	65	4.68"	119	15.81"	401	5.25"	133	2½"	63
3"	80	5.12"	130	18.25"	463	6.12"	155	3"	76



Sil Braze End

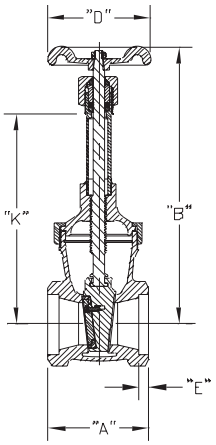
Size		"A"		"B"		"D"		"E"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	2.50"	63	5.81"	147	2.37"	60	.38"	10
¾"	20	3"	76	6.94"	176	2.75"	70	.40"	10
1"	25	3.25"	82	8.43"	214	3"	76	.43"	11
1½"	40	4"	102	11.19"	284	4"	102	.62"	16
2"	50	4.5"	114	13.19"	335	4.75"	121	.65"	17
2½"	65	5.25"	133	15.81"	401	5.25"	133	.78"	20
3"	80	6"	152	18.25"	463	6.12"	155	.82"	21



306 Series

MAWP: 600 psig (42 barg) Non-Shock Cold-
Temperature Rating +150° F to -325°F (+65°C to -198°C)
Non-Extended Valve for selective cold gas applications
Dimensional Data

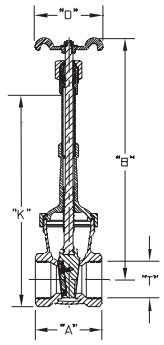
Size		"A"		"B"		"D"		"T" NPT	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
¾"	20	2.5"	63	6.93"	176	2¾"	70	¾"	19
1"	25	2.84"	72	8.43"	214	3"	76	1"	25
1½"	40	3.43"	87	11.18"	284	4"	102	1½"	38
2"	50	3.81"	97	13.81"	351	4¾"	121	2"	51



SB-00310X-24SW Sil Braze End (Stainless Steel Body)

Size		"A"		"B"		"D"		"E"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
3"	80	6"	152	20.38"	518	6.12	155	0.63	16	12.5	317

Bronze Gate Valves for Cryogenic Service
310 & 310X Series

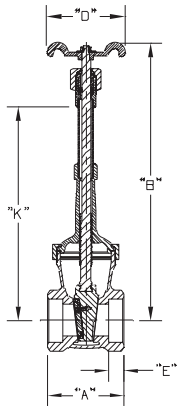


310 Series

MAWP: 300 psig (20 barg) Non-Shock Cold-
Temperature Rating +150° F to -325°F (+65°C to -198°C)
Extended Valve for selective cold gas applications
Dimensional Data

Threaded End (NPT)

Size		"A"		"B"		"D"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
3"	80	6"	152	25.38"	645	6.12"	155	16.30"	414

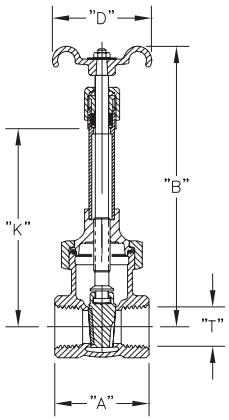


Sil Braze End

Size		"A"		"B"		"D"		"E"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2½"	65	6"	152	25.38"	645	6.12"	155	.03"	1	16.30"	414
3"	80										

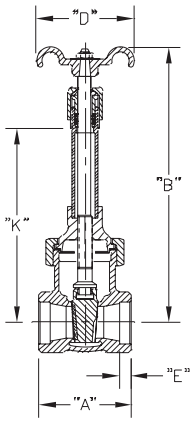
310X Series

MAWP: 300 psig (20 barg) Non-Shock Cold-
Temperature Rating +150° F to -325°F (+65°C to -198°C)
Extended Valve for selective cold gas applications, Ideal for Trailer Service
Dimensional Data



Threaded End (NPT)

Size		"A"		"B"		"D"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2½"	65	6"	152	20.38"	518	6.12"	155	11.5"	292
3"	80								



Sil Braze End

Size		"A"		"B"		"D"		"E"		"K"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
3"	80	6"	152	20.38"	518	6.12"	155	0.83"	21	16.3"	414

Stainless Steel Gate Valve for Cryogenic Service
110 Series

Application

RegO Goddard gate valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ASU plants and piping configurations. Compatible with oxygen, nitrogen, CO2, argon and LNG.

Features

- **Top Entry**: This valve can be permanently installed in the line and serviced from the top
- **Soft Seated**: PCTFE Seat provides a bubble tight seal and is replaceable
- **Construction**: Body and Bonnet ASTM A351-CF8 J92600 Stainless steel
- **Sizes**: ½" - 6" (15mm - 150mm)
- **Ends**: RF Flange, Butt weld, Socket weld, Threaded (FNPT)
- **Service**: Liquefied and vaporized atmospheric gases, LNG
- WHZ valves with Grafoil® stem packing available
- **Temperature Rating**: -320°F - 150°F (-196°C +65°C)
- 100% Factory Tested
- Clean for use in oxygen per CGA G-4.1
- PED Approved
- **Pressure Rating**: (Cold, Non-shock)
  Class 150 valve - 275 psig (19 barg)
  Class 300 valve - 720 psig (50 barg)

110 Series

REGO 10 YEAR WARRANTY

Ordering Information

Stainless Body • RF Flange Ends

150# Part Number	300# Part Number	Valve Size		Ends	Weight 150#		Weight 300#		Estimated C_V (Kv)
		Inches	mm		Lbs.	Kg	Lbs.	Kg.	
GS-110W-8F	-	1"	25 mm	Flange	15	6.80	-	-	30.00 (25.95)
GS-110W-12F	GS-110W-12F3	1½"	40 mm		35	15.88	45	20.41	85.00 (73.52)
GS-110W-16F	GS-110W-16F3	2"	50 mm		35	15.88	50	22.68	100.00 (86.50)
GS-110W-24F	GS-110W-24F3	3"	80 mm		65	29.48	85	35.56	310.00 (268.15)
GS-110W-32F	GS-110W-32F3	4"	100 mm		90	40.82	120	54.43	700.00 (605.50)
GS-110W-48F	GS-110W-48F3	6"	150 mm		150	68.04	200	90.72	850.00 (735.25)

150# ANSI Class (275 psig (19 barg) Cold Working Pressure) 300# ANSI Class (720 psig (50 barg) Cold Working Pressure)

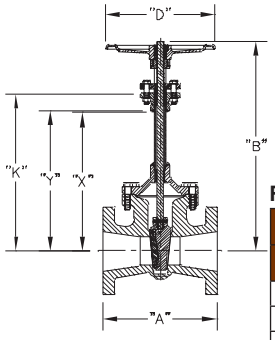
Ordering Information

Stainless Body • Butt Weld, Socket Weld, Threaded Ends

150# Part Number	300# Part Number	Valve Size		Ends	Weight		Estimated Cv (Kv)
		Inches	DN		Lbs.	Kg.	
GS-110W-4WA	-	½"	15	Butt Weld SCH10	10	4.54	7.00 (6.05)
-	GS-110W-4S3			Socket Weld	15	6.80	
GS-110W-4T	-			Threaded	10	4.54	
GS-110W-6WA	-	¾"	20	Butt Weld SCH10			23.00 (19.89)
-	GS-110W-6S3			Socket Weld	15	6.80	
GS-110W-8WA	-	1"	25	Butt Weld SCH10	10	4.54	30.00 (25.95)
-	GS-110W-8S3			Socket Weld	15	6.80	
GS-110W-8T	-			Threaded	10	4.54	
GS-110W-12WA	-	1½"	40	Butt Weld SCH10	30	13.61	85.00 (73.52)
-	GS-110W-12S3			Socket Weld	35	15.88	
-	GS-110W-16W3A	2"	50	Butt Weld SCH10			100.00 (86.50)
-	GS-110W-16W3J			Butt Weld SCH40			
GS-110W-16S	-			Socket Weld	30	13.61	
-	GS-110W-24W3A	3"	80	Butt Weld SCH10	65	29.48	310.00 (268.15)
-	GS-110W-24W3J			Butt Weld SCH40			
-	GS-110W-32W3A	4"	100	Butt Weld SCH10	80	40.82	700.00 (605.50)
-	GS-110W-32W3J			Butt Weld SCH40			
-	GS-110W-48W3A	6"	150	Butt Weld SCH10	120/150*	54.43/68.04*	850.00 (735.25)
-	GS-110W-48W3J			Butt Weld SCH40			

150# ANSI Class (275 psig (19 barg) Cold Working Pressure) 300# ANSI Class (720 psig (50 barg) Cold Working Pressure)* Second number indicates valve for 300# part number. Service: 300#-720 psig (50 barg) Non-shock Cold • Service: 150#-275 psig (19 barg) Non-shock Cold • Temperature Rating +150°F - 325°F (+65°C to -198°C) • Mounting plate option available

Stainless Steel Gate Valve for Cryogenic Service
110 Series

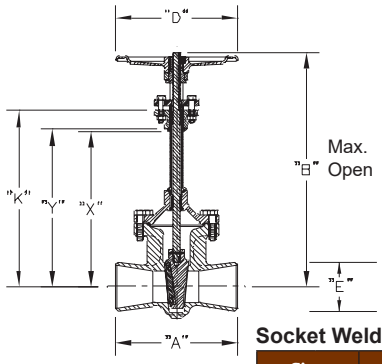


Max. Open

Raised Face Flange Ends*

Size		"A" 150#		"A" 300#		"B"		"D"		"K"		"X"		"Y"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1"	25	4⅛"	105	N/A	-	17¾"	451	4½"	114	12¾"	324	$11^{1}/_{16}$"	281	11⅜"	289
1½"	40	4⅝"	118	6⅛"*	156	21⅞"	556	7"	178	14"	356	$12^{5}/_{16}$"	313	12⅝"	321
2"	50	7"	178	7¼"*	184										
3"	80	8"	203	8¾"*	222	31½"	800	12"	305	20"	508	17¾"	451	$18^{1}/_{16}$"	459
4"	100	9"	229	12"	305	33¾"	857			21½"	546	19¼"	489	$19^{9}/_{16}$"	497
6"	150	10½"	267	15⅞"	403	41½"	1054	16"	406	26"	660	$23^{9}/_{16}$"	598	23⅞"	606

*Face-to-face dimensions (A) are Goddard standard not to ANSI standard.
- Special B,K,X & Y Dimensions Available

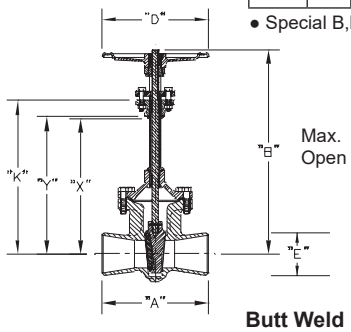


Max. Open

Socket Weld Ends

Size		"A" 150#		"A" 300#		"B"		"D"		"E"		"F"		"K"		"X"		"Y"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	3¾"	95	3¾"	95	17¾"	451	4½"	114	.855	21	⅜"	10	12¾"	324	$11^{1}/_{16}$"	281	11⅜"	284
¾"	20									1.065	27	½"	13						
1"	25	3½"	89	4"	102					1.330	34								
1½"	40	4⅝"	118	5"	127	21⅞"	556	7"	178	1.915	49			14"	356	$12^{5}/_{16}$"	313	12⅝"	321
2"	50	8½"	216	N/A	-					2.406	61	⅝"	16						

- Special B,K,X & Y Dimensions Available



Max. Open

Butt Weld Ends

Size		"A" 150#		"A" 300#		"B"		"D"		"K"		"X"		"Y"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	4¼"	108	N/A	-	17¾"	451	4½"	114	12¾"	324	$11^{1}/_{16}$"	281	11⅜"	289
¾"	20	4⅝"	117												
1"	25	5"	127												
1½"	40	6"	152	6"	152	21⅞"	556	7"	178	14"	356	$12^{5}/_{16}$"	313	12⅝"	321
2"	50	8½"	216	8½"	216										
3"	80	11⅛"	282	11⅛"	282	31½"	800	12"	305	20"	508	17¾"	451	$18^{1}/_{16}$"	459
4"	100	12"	305	12"	305	33¾"	857			21½"	546	19¼"	489	$19^{9}/_{16}$"	497
6"	100	15⅞"	403	15⅞"	403	41½"	1054	16"	406	26"	660	$23^{9}/_{16}$"	598	23⅞"	606

- Special B,K,X & Y Dimensions Available
- Unless otherwise specified, Schedule 10 weld ends are supplied

Stainless Steel Gate Valve for Cryogenic Service
110WHZ Series

Application

RegO Goddard gate valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ASU plants and piping configurations. Compatible with oxygen, nitrogen, CO2, argon and LNG.

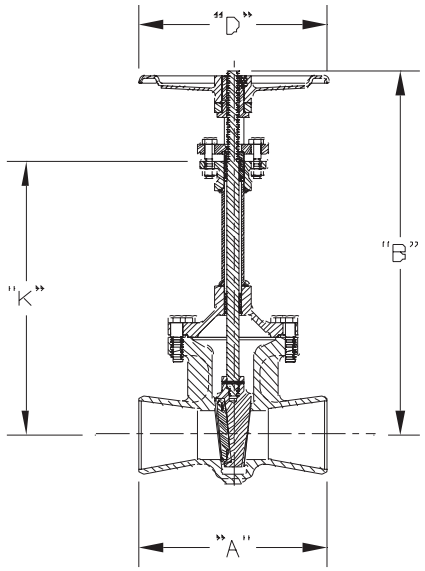
REGO 10 YEAR WARRANTY

Features

- **Top Entry**: This valve can be permanently installed in the line and serviced from the top
- **Soft Seated**: PCTFE Seat provides a bubble tight seal and is replaceable
- **Construction**: Stainless steel body and bonnet
- **Sizes**: ½" - 6" (15mm - 150mm)
- **Ends**: RF Flange, Butt weld, Socket weld, Threaded (FNPT)
- **Service**: Liquefied and vaporized atmospheric gases, LNG
- Grafoil® stem packing.
- **Temperature Rating**: -320°F - 150°F (-196°C +65°C)
- 100% Factory Tested
- Clean for use in oxygen per CGA G-4.1
- Grafoil® Stem Packing
- **Pressure Rating**: (Cold, Non-shock)
  Class 300 valve - 720 psig (50 barg)

½" - 6" Class 300
PED Approved

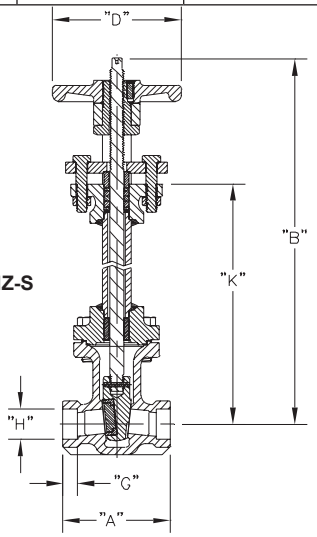
S-110WHZ-W



Ordering Information

Part Number	Ends	Size		"A"		"B"		"D"		"K"		Estimated Cv (Kv)	Weight Lbs. (Kg)
		Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
GS-110WHZ-16W3A	S10	2"	50	8.50	216	21.88	556	7	178	14	356	100 (86.5)	35 (16)
GS-110WHZ-16W3J	S40												
GS-110WHZ-24W3A	S10	3"	80	11.12	282	31.5	800	12	305	20	508	310 (268.15)	65 (29)
GS-110WHZ-32W3A	S10	4"	100	12	305	33.75	857			21.5	546	700 (605.50)	80 (36)
GS-110WHZ-48W3A	S10	6"	150	15.88	403	41.5	1054	16	406	26	660	850 (735.25)	150 (68)
GS-110WHZ-48W3J	S40												

S-110WHZ-S



Ordering Information

Part Number	Size		"A"		"B"		"D"		"G"		"H"		"K"		Estimated Cv (Kv)	Lbs. (Kg.)
	Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
GS-110WHZ-4S3	½"	15	3.75	95	17.75	451	4.5	114	.38	10	.86	22	12.8	325	7 (6.05)	15 (6.80)
GS-110WHZ-6S3	¾"	20							.5	13	1.07	27			23 (19.89)	
GS-110WHZ-8S3	1"	25	4	102							1.33	34			30 (25.95)	
GS-110WHZ-12S3	1½"	40	5	127	21.88	556	7	178			1.92	49	14	356	85 (73.52)	35 (15.87)

Stainless Steel Gate Valve for Cryogenic Service
LOX Series

Application

RegO LOX Series gate valves are designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ASU plants and piping configurations. Compatible with oxygen, nitrogen, CO_2, argon and LNG. Specifically designed for liquid oxygen (LOX) service.

Features

- **Top Entry**: This valve can be permanently installed in the line and serviced from the top
- **Soft Seated**: PCTFE Seat provides a bubble tight seal and is replaceable
- **Construction**: Body and Bonnet ASTM A351-CF8 J92600 Stainless steel
- **Sizes**: ½" - 6" (15mm - 150mm)
- **Ends**: RF Flange, Butt weld, Socket weld, Threaded (FNPT)
- **Service**: Liquefied and vaporized atmospheric gases, LNG
- WHZ valves with Grafoil® stem packing available
- **Temperature Rating**: -320°F - 150°F (-196°C +65°C)
- 100% Factory Tested
- Clean for use in oxygen per CGA G-4.1
- **Pressure Rating**: (Cold, Non-shock)
  Class 300 valve - 720 psig (50 barg)

LOX Series

REGO 10 YEAR WARRANTY

Ordering Information

Stainless Body • Butt Weld, Socket Weld, Threaded Ends

300# Part Number	Valve Size		Ends	Weight		Estimated Cv (Kv)
	Inches	DN		Lbs.	Kg.	
LOX110W-4S3	½"	15	Socket Weld	15	6.80	7.00 (6.05)
LOX110W-6S3	¾"	20				23.00 (19.89)
LOX110W-8S3	1"	25				30.00 (25.95)
LOX110W-12S3	1½"	40		35	15.88	85.00 (73.52)
LOX110W-16W3A	2"	50	Butt Weld SCH10			100.00 (86.50)
LOX110W-24W3A	3"	80	Butt Weld SCH10	65	29.48	310.00 (268.15)
LOX110W-24W3J			Butt Weld SCH40			
LOX110W-32W3A	4"	100	Butt Weld SCH10	80	40.82	700.00 (605.50)
LOX110W-32W3J			Butt Weld SCH40			
LOX110W-48W3A	6"	150	Butt Weld SCH10	120/150*	54.43/68.04*	850.00 (735.25)
LOX110W-48W3J			Butt Weld SCH40			

300# ANSI Class (720 psig (50 barg) Cold Working Pressure)* Second number indicates valve for 300# part number.
Service: 300#-720 psig (50 barg) Non-shock Cold • Service: 150#-275 psig (19 barg) Non-shock Cold
• Temperature Rating +150°F - 325°F (+65°C -198°F) • Mounting plate option available
• Custom sizes and connections available.

Horizontal Lift Check Valves
8500 Series

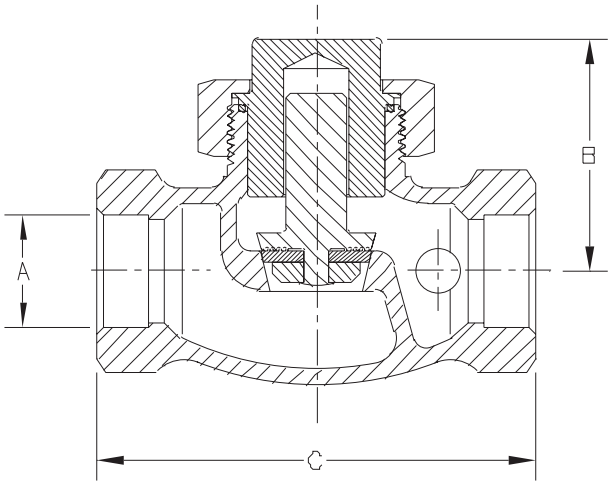
Application
8500 series valves are designed for use as a check valve on cryogenic bulk stations and pipelines.

REGO 10 YEAR WARRANTY

Features
- Replaceable Kel-F seat discs
- Self-centering cap holds plunger in position
- Each valve is cleaned and packaged for liquid oxygen service per CGA G-4.1
- 100% Factory Tested
- Working temperature range is -320°F to +165°F (-196ºC to +74ºC)
- Maximum working pressure is 600 psig MAWP (41.3 barg)
- 2 psig opening pressure

BK8508S

Materials
Body ..... Bronze
Cap ..... Brass
Plunger ..... Brass
Seat ..... PCTFE



BK8512S

Ordering Information

Part Number	Inlet / Outlet Connection A	B		Length C		C_V (Kv)
		inches	mm	inches	mm	
BK8508S	1.128"-1.130"	2¼"	57.15	$4^{15}/_{16}$"	125.47	10 (8.65)
BK8508T	1" F.NPT					
BK8512S	1.629"-1.631"	3¼"	82.55	$5^{3}/_{16}$"	131.82	27 (23.35)
BK8512T	1½" F.NPT					

Bronze Swing Check Valve for Cryogenic Service Including 846M Goddard 840 Series

Application

The RegO Goddard 846M and 840 series check valve is designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Compatible with oxygen, nitrogen, CO2, argon and LNG.

REGO 10 YEAR WARRANTY

840 Series

Features

- **Top Entry:** This swing check valve can be permanently installed in the line and serviced from the top
- **Construction:** Designed to prevent back flow in cryogenic systems. Higher fluid capacity (Cv) than poppet or lift check valves. Bronze body and internals. Rugged construction for long life and minimal down time
- **Sizes:** ½" through 2" (15mm through 50mm)
- **Ends:** Threaded (FNPT), or with Sil Brazed Tube (SBT)
  SCH-10, Threaded back brazed pipe nipples in 1" increments up to 6"
  SCH-40, Threaded back brazed pipe nipples in 1" increments up to 6"
  SCH-80, Threaded back brazed pipe nipples in 1" increments up to 6"
- **Temperature Rating:** -320°F to +150°F (-196°C to +65°C)
- Cleaned for Oxygen Service per CGA G-4.1.
- **Pressure Rating:** (Cold, Non-shock)
  840 Series 400 psig (27.6 barg)
  846M Series 600 psig (41.4 barg)
  Sizes 1½" to 2" PED Approved

  Note: Do not use for reciprocating gas service.

- **Cracking Pressure:** 0.5 psig (.03 barg)

Ordering Information

840

Bronze Swing Check Valves - Soft Seated, Threaded, Sil Brazed Ends, Threaded and Back Brazed Pipe Nipples
400 psig (28 barg) Cold Working Pressure

Threaded Ends

Part Number	NPT Size Inches	NPT Size DN	Ends	Weight Lbs.	Weight Kg	Estimated C_V (Kv)
B-840-4T	½"	15	Threaded	2.00	0.91	4.50 (3.89)
B-840-6T	¾"	20		4.00	1.81	7.00 (6.05)
B-840-8T	1"	25		4.50	2.04	10.00 (8.65)
B-840-12T	1½"	40		8.50	3.86	40.00 (34.6)
B-840-16T	2"	50		14.50	6.58	100.00 (86.5)

Silver Brazed - Pipe Nipple

Part Number	SBT Size Inches*	SBT Size DN*	Ends	Weight Lbs.	Weight Kg	Estimated C_V (Kv)
B-840-4S	½"	15	Silver Braze	2.50	1.13	4.50 (3.89)
B-840-6S	¾"	20		4.5	2.05	7.00 (6.05)
B-840-8S	1"	25		5.25	2.38	10.00 (8.65)
B-840-12S	1½"	40		10.75	4.88	40.00 (34.6)
B-840-16S	2"	50		17.50	7.94	100.00 (86.5)

* Nominal Size

846M

Bronze Swing Check Valves - Metal Seated, Threaded, Sil Brazed Ends, Threaded and Back Brazed Pipe Nipples
600 psig (42 barg) Cold Working Pressure

Threaded Ends

Part Number	NPT Size Inches	NPT Size DN	Ends	Weight Lbs.	Weight Kg	Estimated C_V (Kv)
B-846M-4T6	½"	15	Threaded	2.00	0.91	4.50 (3.89)
B-846M-8T6	1"	25		4.50	2.04	10.00 (8.65)
B-846M-12T6	1½"	40		8.50	3.86	40.00 (34.6)
B-846M-16T6	2"	50		14.50	6.58	100.00 (86.5)

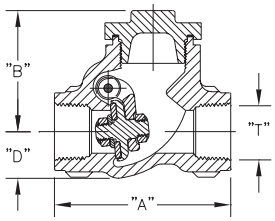
Bronze Swing Check Valve for Cryogenic Service Including 846M 840 Series

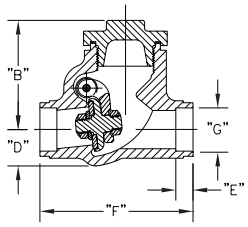
Silver Brazed - Pipe Nipple

Part Number	SBT Size Inches*	SBT Size DN*	Ends	Weight Lbs.	Weight Kg	Estimated CV
B-846M-4S6	½"	15	Silver Braze	2.50	1.13	4.50
B-846M-6S6	¾"	20		4.50	2.04	7.00
B-846M-8S6	1"	25		5.25	2.38	10.00
B-846M-12S6	1½"	40		10.75	4.88	40.00
B-846M-16S6	2"	50		17.50	7.94	100.00

* Nominal Size

● Contact company for threaded, back brazed pipe nipple information



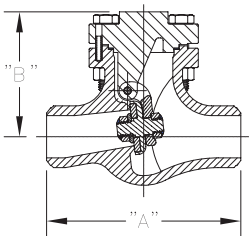


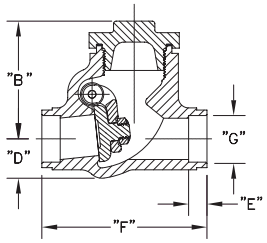
840 Series

Pressure Rating MSS SP-80 Class 200
MAWP 400 psig (28 barg) Non-Shock Cold
Temperature Rating +150°F to -325°F (+65°C to -198°C)

Dimensional data

Size		"A"		"B"		"D"		"T" NPT		"E"		"F"		"G"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	3.00"	76	2.13"	54	¾"	19	½"	13	.38"	10	2.94"	75	.63"	16
¾"	20	3.69"	94	2.81"	71	1.12"	28	¾"	19	.41"	11	3.60"	91	.88"	22
1"	25	4.00"	102			1.13"	29	1"	25	.45"	11	4.00"	102	1.13"	29
1½"	40	5.03"	128	3.63"	92	1.44"	36	1½"	38	.63"	16	5.03"	128	1.63"	41
2"	50	6.35"	161	4.34"	110	1.84"	47	2"	51	.66"	17	6.35"	161	2.13"	54





846M Series

Pressure Rating MSS SP-80 Class 300
MAWP 600 psig (42 barg) Non-Shock Cold
Temperature Rating +150°F to -325°F (+65°C to -198°C)

Dimensional data

Size		"A"		"B"		"D"		"T" NPT		"E"		"F"		"G"	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
½"	15	3.00"	76	2.13"	54	¾"	19	½"	13	.38"	10	2.94"	75	.63"	16
¾"	20	3.69"	94	2.81"	71	1⅛"	28	¾"	19	.41"	11	3.60"	91	.88"	22
1"	25	4.00"	102					1"	25	.45"	11	4.00"	102	1.13"	29
1½"	40	5.03"	128	3.63"	92	$1^{7}/_{16}$"	36	1½"	38	.63"	16	5.03"	128	1.63"	41
2"	50	6.35"	161	4.34"	110	$1^{27}/_{32}$"	47	2"	51	.66"	17	6.35"	161	2.13"	54

Stainless Steel Spring-Loaded Piston Lift Check Valves
CV9400 Series

Application

The CV9400 Series of Stainless Steel Lift Check Valves are designed with a spring-loaded piston for installation in various piping configurations in liquid cryogenic applications, including bulk tanks, trailers and ISO tanks. Ideal service medium includes oxygen, nitrogen, krypton, carbon dioxide, nitrous oxide, dinitrogen monoxide, carbon oxide, methane, ethane, ethylene, argon, and LNG.

REGO 100% TESTED ★

CLEANED FOR OXYGEN SERVICE O_2 CGA G-4.1

REGO 10 YEAR WARRANTY

Features

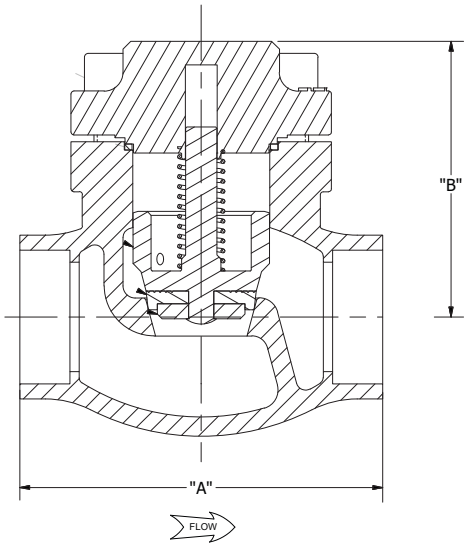
- Soft Seat: Dyneon™ TFM1600 material enables bubble tight sealing performance under cryogenic conditions
- Seat Disc: Conical seat design provides higher Cv and a bubble tight seal
- Seat Assembly: One-piece assembly with no small pieces prevent possible dislodge of material during vibration that could damage downstream equipment or potentially cause an explosion
- Seat Holder: Lower position guiding ensures repeatability of tight reseal
- Spring: 316Ti material provides repeatable, lasting performance when exposed to cryogenic liquid
- Opening Pressure: 1.5 PSIG (0.1 BARG)
- Sizes: ½" through 2"
- Connection: SCH 10 Socket Weld & Butt Weld per ASTM A312 & ASME B16.25 standards
- Temperature rating: -320°F to +185°F (-196°C to +85°C)
- Pressure rating: Cold, non-shock, 720 PSIG (50 BARG) Class 300 (PN 50)
- 100% Factory Tested
- Each valve is individually bagged and boxed to arrive in factory new condition until ready for installation
- Cleaned and packaged for oxygen service per CGA G-4.1

CV9416SW

Materials

Body ..... 316 Stainless Steel ASTM A351-CF-8M (DIN 1.4408)
Bonnet .....304 Stainless Steel ASTM A182 (DIN 1.5415)
Spring .....316Ti Stainless Steel ASTM A313 (DIN 1.4544)
Gasket .....PTFE 25% Glass Fill
Seat Disc ..... Dyneon TFM 1600
Seat Retainer..... Brass ASTM B16 (DIN 2.0375)
Bonnet Screws .....Stainless Steel ASTM 240 (DIN 1.4006)

PED Certified CE



CV9416SW

Ordering Information

Part Number	Size Inches	Size DN	Connection Type	A Inches	A mm	B Inches	B mm	Cv	Kv	Weight lbs	Weight kg
CV9404SW	½"	15	Socket Weld	2.7	67	2.7	68	5.0	4.3	1.9	0.9
CV9406SW	¾"	20		2.8	70	3.6	92	9.4	8.1	3.4	1.5
CV9408SW	1"	25		2.8	70	3.6	92	14.0	12.1	3.6	1.6
CV9412SW	1½"	40		3.1	79	4.8	121	28.3	21.6	7.0	3.2
CV9416SW	2"	50		4.2	106	5.8	146	53.0	45.8	12.2	5.6
CV9404BW	½"	15	Butt Weld	2.7	67	2.7	68	5.0	4.3	1.9	0.9
CV9406BW	¾"	20		2.8	70	3.6	92	9.4	8.1	3.4	1.5
CV9408BW	1"	25		2.8	70	3.6	92	14.0	12.1	3.6	1.6
CV9412BW	1½"	40		3.1	79	4.8	121	28.3	21.6	7.0	3.2
CV9416BW	2"	50		4.2	106	5.8	146	53.0	45.8	12.2	5.6

Stainless Steel Swing Check Valve for Cryogenic Service
886 Series

Application

The RegO Goddard 886 Series check valve is designed for handling of cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations. Compatible with oxygen, nitrogen, CO2 argon and LNG.

REGO 10 YEAR WARRANTY

Features

- **Top Entry:** This bolted bonnet valve can be permanently installed in the line and services from the top
- **Construction:** Designed to prevent back flow in cryogenic systems. Higher fluid capacity (C_V) than poppet or lift check valves. 316L stainless steel investment cast body, cap and arm, according to ASME B16.34
- **Sizes:** ½" through 4" (15mm through 100mm)
- **Ends:** Socket weld and butt weld schedule 10 and 40
- **Temperature Rating:** -320°F to 150°F (-196°C to +66°C)
- Cleaned for Oxygen Service per CGA G-4.1.
- **Pressure Rating:** (Cold, Non-shock)
  400 psig (27 barg) ½" - 2"
  275 psig (19 barg) 150# ANSI Class 3" and 4"
  720 psig (50 barg) 300# ANSI Class 3" and 4"
  PED Approved
- **Note: Do not use for reciprocating gas service**
- **Our investment cast stainless steel is specified by leading industrial gas companies for storage tank and yard operations**
- **Ideal for liquid atmospheric gases and LNG storage and handling**
- **High cycle life and superior sealing**
- **Valves for hydrogen service can be supplied (-425°F to +350°F) (-254° C to 176° C.)**
- **Cracking Pressure:** 0.5 psig (0.03) barg

886 Series

Ordering Information

886

Stainless Steel Swing Check Valves
Soft Seat

GRAFOIL® Gasket - Hydrogen Service - Socket Weld

Part Number	Valve Size		End Connection	Seat	Pressure Rating	Estimated C_V (Kv)	Weight	
	Inches	DN					Lbs.	Kg
S-886GF-4S	½"	15	Socket Weld	Soft	400 (27.5 barg)	4.50 (3.89)	3	1.36
S-886GF-8S	1"	25				18.00 (15.57)	11	4.98
S-886GF-12S	1½"	40				61.00 (52.76)	17	7.71

PTFE Gasket - Socket Weld

Part Number	Valve Size		End Connection	Seat	Pressure Rating	Estimated C_V (Kv)	Weight	
	Inches	DN					Lbs.	Kg
S-886-4S	½"	15	Socket Weld	Soft	400 (27.5 barg)	4.50 (3.89)	3	1.36
S-886-8S	1"	25				18.00 (15.57)	11	4.98
S-886-12S	1½"	40				61.00 (52.76)	17	7.71

Stainless Steel Swing Check Valve for Cryogenic Service
886 Series

PTFE Gasket - Buttweld

Part Number	Valve Size		End Connection	Seat	Butt Weld Schedule	Pressure Rating	Estimated C_V (Kv)	Weight	
	Inches	DN						Lbs.	Kg
S-886-4WA	½"	15	Butt Weld	Soft	10	400 (27.5 barg)	4.50 (3.89)	3	1.36
S-886-8WA	1"	25					18.00 (15.57)	11	4.98
S-886-12WA	1½"	40					61.00 (52.76)	17	7.71
S-886-16W3A	2"	50				720 (50 barg)	99.00 (85.63)		
S-886-24WA	3"	80				275 (19 barg)	225.00 (194.62)	47	21.31
S-886-24WJ					40			46	20.86
S-886-32W3J	4"	100				720 (50 barg)	475.00 (410.87)	95	43.09
S-886-32WA					10	275 (19 barg)			

886M

Stainless Steel Swing Check Valves - Metal Seat

PTFE Gasket - Socket Weld

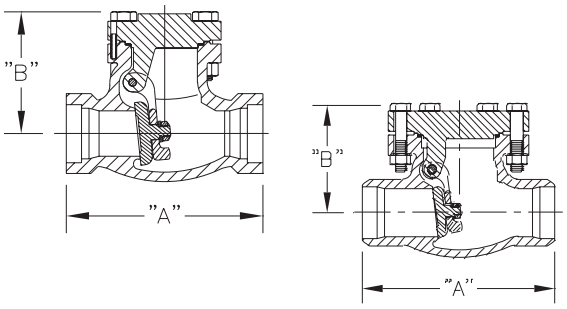
Part Number	Valve Size		End Connection	Seat	Pressure Rating	Estimated C_V (Kv)	Weight	
	Inches	DN					Lbs.	Kg
S-886M-4S3	½"	15	Socket Weld	Metal	720 (50 barg)	4.50 (3.89)	3	1.36
S-886M-8S3	1"	25				18.00 (15.57)	11	4.98
S-886M-12S3	1½"	40				61.00 (52.76)	17	7.71

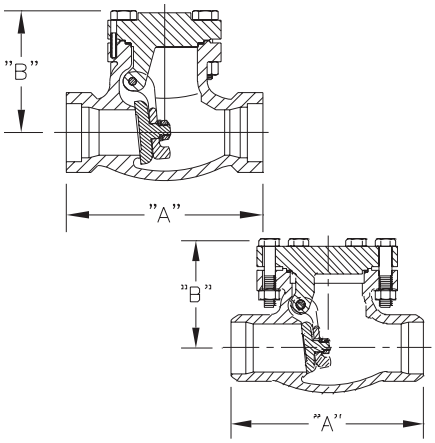
Butt Weld Ends

Part Number	Valve Size		End Connection	Seat	Butt Weld Schedule	Pressure Rating	Estimated C_V (Kv)	Weight	
	Inches	DN						Lbs.	Kg
S-886M-16W3A	2"	50	Butt Weld	Metal	10	720 (50 barg)	99.00 (85.63)	17	7.71
S-886M-24W3J	3"	80			40		225.00 (194.62)	46	20.86
S-886M-24W3A	3"				10				
S-886M-32WA	4"	100				275 (19 barg)	475.00 (410.87)	95	43.09
S-886M-32W3J	4"				40	720 (50 barg)			

Butt Weld Ends with GRAFOIL® Gasket for Hydrogen Service

Part Number	Valve Size		End Connection	Seat	Butt Weld Schedule	Pressure Rating	Estimated C_V (Kv)	Weight Lbs.	
	Inches	DN						Lbs.	Kg
S-886MGF-16W3A	2"	50	Butt Weld	Metal	10	720 (50 barg)	99.00 (85.63)	17	7.71
S-886MGF-24W3A	3"	80					225.00 (194.62)	46	20.86





886

Pressure Rating 300 psig (20 barg) Non-Shock Cold,
Temperature Rating +150° F to - 325° F (+65°C to -198°C)

Size		"A"		"B"	
inches	DN	inches	mm	inches	mm
½"	15	4¼"	107.95	2½"	63.5
¾"	20	5"	127	3¼"	82.55
1"	25				
1½"	40	6½"	165.1	4"	101.6
2"	50	8"	203.2	4½"	107.95

886M

Service 300 Class 720 psig (50 barg) Non-Shock Cold,
Temperature Rating +150° F to - 325° F (+65°C to -198°C)

Size		"A"		"B"		Butt Weld End Schedule
inches	DN	inches	mm	inches	mm	
1½"	40	6½"	165.1	4"	101.6	10
2"	50	8"	203.2	4½"	107.95	
3"	80	9½"	241.3	5¾"	146.05	10 & 40
4"	100	11½"	292.1	8⅜"	212.85	10
		14"	355.6			40

Size		"A"		"B"		End	End Dimension
inches	DN	inches	mm	inches	mm		
½"	15	$2^{7}/_{16}$"	61.97	4¼"	107.69	Socket Weld	SCH 10
							½" Pipe Socket

Inline Check Valves
CG Series Gas and Cryogenic Check Valves

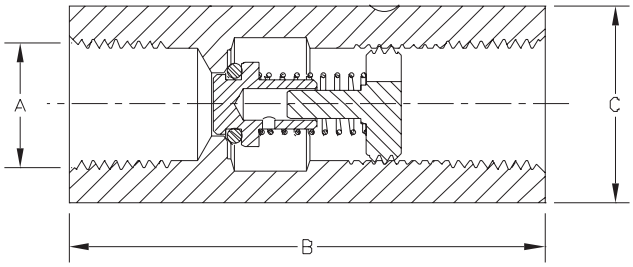
Application
Inline check valves with metal seat option for cryogenic service or with soft seat option for leak free operation in gas service.

Features
- One directional flow indicated by arrow on body
- Large Cv for high flow capability and low pressure drop
- Working temperature range:
  -320° F to +165° F (-195°C to +74°C) for metal seats
  -20° F to +165° F (-20°C to +74°C) for soft seats
- 1 psig opening pressure
- Cleaned for use in oxygen service per CGA G-4.1

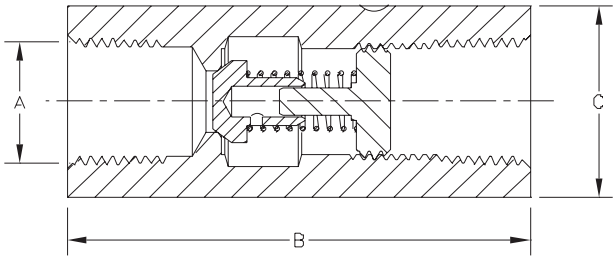
REGO 10 YEAR WARRANTY

Materials
Body (B and BL suffix) ..... ASTM B16 Brass
Body (SS and SSL suffix) ..... 203 Stainless Steel
Spring ..... Stainless Steel
Piston ..... Stainless Steel
O-Ring (soft seat option units only) ..... Viton
Metal Seat ..... 303 Stainless Steel

CG Series



Soft Seat Option



Metal Seat Option

Ordering Information

Part Number	Seating Option	Inlet/Outlet Connections FNPT A	Length B		Wrenching Hex Size C		Cv (Kv)	Maximum Operating Pressure
			inches	mm	inches	mm		
Stainless Steel Check Valves								
CG250SS	Metal	¼"	2⅜"	60.45	13/16"	20.57	.87 (0.75)	5000 psig (345 barg)
CG375SS		⅜"	2½"	63.50	1"	25.4	2.3 (1.98)	
CG500SS		½"	3"	76.20	1⅛"	28.575	3.5 (3.02)	
CG750SS		¾"	3⅝"	92.20	1 1/2"	38.1	5.2 (4.49)	
CG250SSL	Soft	¼"	2⅜"	60.45	13/16"	20.57	.87 (0.75)	250 psig (17.2 barg)
CG375SSL		⅜"	2½"	63.50	1"	25.4	2.3 (1.98)	
CG500SSL		½"	3"	76.20	1⅛"	28.575	3.5 (3.02)	2000 psig (138 barg)
CG750SSL		¾"	3⅝"	92.20	1½"	38.1	5.2 (4.49)	
Brass Body Check Valves								
CG250B	Metal	¼"	2⅜"	60.45	13/16"	20.57	.87 (0.75)	3000 psig (207 barg)
CG375B		⅜"	2½"	63.50	1"	25.4	2.3 (1.98)	
CG500B		½"	3"	76.20	1⅛"	28.575	3.5 (3.02)	
CG750B		¾"	3⅝"	92.20	1½"	38.1	5.2 (4.49)	
CG250BL	Soft	¼"	2⅜"	60.45	13/16"	20.57	.87 (0.75)	250 psig (17.2 barg)
CG375BL		⅜"	2½"	63.50	1"	25.4	2.3 (1.98)	
CG500BL		½"	3"	76.20	1⅛"	28.575	3.5 (3.02)	2000 psig (138 barg)
CG750BL		¾"	3⅝"	92.20	1½"	38.1	5.2 (4.49)	

100 RegO Dr. Elon, NC 27244 USA www.regoproducts.com

RegO® Check Valves
NG304 Series

Application

The NG304 series is specifically designed to prevent backflow (reverse flow) in applications of LNG fuel tanks and LNG facilities. These valves permit the safe refill operation of the LNG tanks and the maintenance process of the fill receptacle, ensure reliable performance at cryogenic temperatures.

REGO 10 YEAR WARRANTY

NG304SSA

Features

NG304

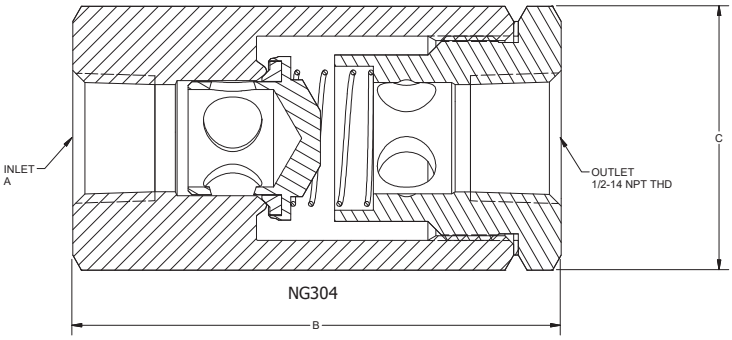
- Maximum inlet pressure 1000 psig (69 barg)
- 100% factory tested
- Temperature Range: -320º F to 165ºF (-196ºC to 74ºC)
- Designed in accordance with & approved by ECE R110

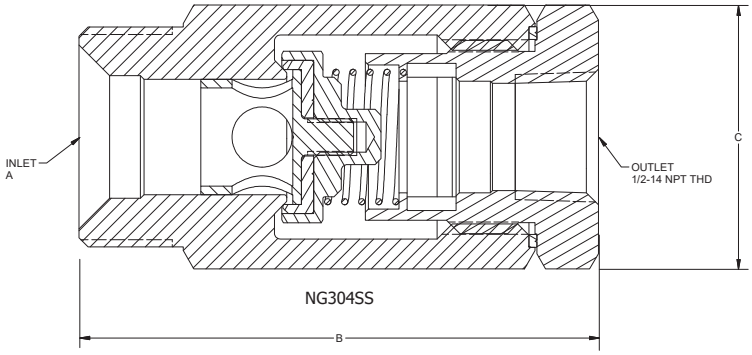
Materials for NG304

Body ..... Brass ASTM B16 C36000
Spring ..... Stainless Steel 302 ASTM A313
Gasket ..... Copper ASTM B152 UNS C11000
Poppet ..... Brass ASTM B16 UNS C36000
Seat Disc ..... PTFE Virgin Teflon

Materials NG304SS

Body ..... Stainless Steel 304 ASTM276
Spring ..... Stainless Steel 302 ASTM A313
Gasket ..... Copper ASTM B152 UNS C11000
Poppet ..... Brass 360 FC (UNS C36000 PER ASTM B16)
Seat Disc ..... UHMWPE (ASTM D4020)





Ordering Information

Part Number	Body Material	Connection (A)	B		C		Weight Lbs		Silver Plated End Piece
			Inches	mm	Inches	mm	Lbs	Kg	
NG304	Brass	Threaded FNPT F ½	3.135	80	1.5 (Hex)	38	1.25	0.6	N/A
NG304SSA	Stainless Steel	M36x2 Male	3.346	85			1.10	0.5	
NG304SSB		M30x1.5 Male	2.953	75					
NG304SSC		½"-14 NPT Female							
NG304SSAP		M36x2 Male	3.346	85					Yes
NG304SSBP		M30x1.5 Male							
NG304SSCP		½"-14 NPT Female	2.953	75					

3” Flanged Internal Valves for Bobtail Delivery Trucks, Transports and Large Stationary Storage Containers TA3217

Application

Designed primarily for CO_2 filling and/or withdrawal on bobtail delivery trucks, transports and stationary storage tanks with flanged pumps or piping. Installation is quick and easy, and the valve may be operated manually by cable or pneumatically. Lever available on right or left side to allow for installation without the use of an extra pulley.

REGO 10 YEAR WARRANTY

TA3217

Features

Provides More Efficient Operation

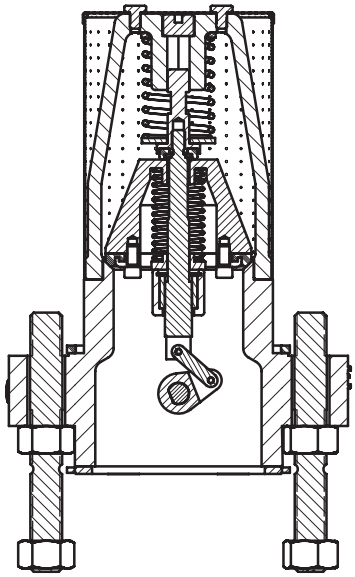
- Flow passages designed to allow substantially higher without cavitation or loss of efficiency--saving time and money
- Simple operating lever facilitates easy adaptation of all cable controls
- Lever available on right or left side to allow for installation without the use of an extra pulley
- Nylon bearing supported operating shaft provides smooth, easy operation

Less Frequent-Easier Maintenance

- Stainless steel screws resist rusting and are easily removed during valve disassembly
- Heavy duty rod wiper helps minimize dirt and foreign material from entering operating shaft and hampering operation

Durable Construction

- Cadmium plating helps resist corrosion during storage and use
- All ferrous materials with a temperature range of -40° F. to +165° F. (-40°C to +74°C) and a pressure rating of 400 psig (28 barg)
- Sturdy retaining ring secures operating cam to provide for more durable, slack-free operation
- Built-in excess flow valve
- Specify RegO Internal Valves on your next new tank or when your truck is rebuilt



Ordering Information

Part Number		Operating Lever Position	Inlet Connection	Outlet Connection	Closing Flow GPM	Accessories	
						Pneumatic Actuator	
					CO_2	Right Operation	Left Operation
TA3217AR410	TA3217AL410	Right or Left	3” 300# ANSI RF Modified Flange*	3” 300# ANSI RF Flange	410	A3217RA	A3217LA

* Valve supplied with 16 nuts and 8 studs for mounting.

Cryogenic ½” Combination Pressure Builder / Economizer
CBE504 Series

Application

CBE504 series regulators maintain the pressure of the cryogenic vessels (Bulk Tanks or Micro bulks) during the operation or usage. The pressure building and economizer function are both combined in one unit, saving space and weight on the tank, simplifying the tank plumbing and reducing potential leak points. Designed and suitable for use in various cryogenic industrial gases, including Nitrogen, Oxygen, Argon, CO2 and LNG. For optimum performance with carbon dioxide and nitrous oxide, use in gas phase only.

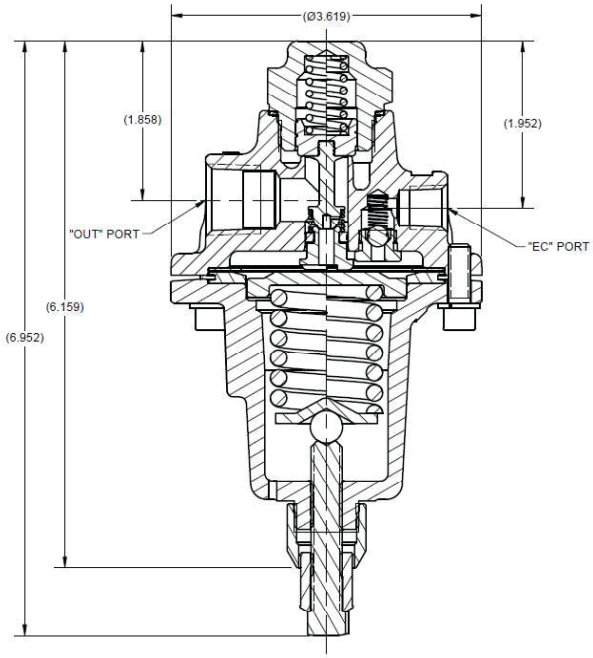
PED Certified

#0C21549.25

CBE Series

Features

- Compact design fits well in tight plumbing geometries
- Built-in economizer check included on all models to prevent reverse flow during filling and operational upset conditions
- Up to 2 times higher pressure build flow than competition as proven through PB504 design and internal testing
- Lateral economizer port provides 1.7 times larger flow area, allowing for faster response time & reducing the potential for product loss.
- Economizer seal ring between PB (pressure build) OUT and EC (economizer) OUT (as compared to PB IN and EC OUT) prevents pressure runaways
- Diaphragm senses EC OUT pressure (as compared to PB OUT), accelerating pressure building function during gas use
- Improved calibrated pressure adjustment feature on bonnet cap aids in easier, more accurate pressure adjustment
- All parts are copper alloy (brass), PTFE, and stainless steel—materials selected specifically for compatibility with cryogenic temperatures down to -320ºF (-196ºF)
- PTFE seat provides positive shut off at cryogenic temperatures
- Maximum inlet pressure of 600 psig (41.4 barg)
- Pressure setting range from 25 psig to 550 psig (1.7 barg to 37.9 barg) preset and tested in factory to ensure quality performance
- Monel screens included on pressure builder (PB) inlet and outlet
- Cleaned per CGA G-4.1 for oxygen service
- May be mounted vertically or horizontally (EC port pointed up) based on customer preference; horizontal installation allows for easier pressure setting adjustment



Materials

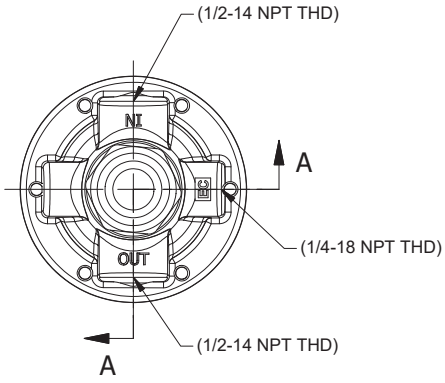
Body CDA 377 (UNS C37700) Commercial Brass Alloy per ASTM B283
Bonnet ..... Commercial Yellow Brass Alloy per ASTM B283
Delivery Spring .....302 / 17-7PH Stainless Steel per ASTM A313
Return Spring .....304 Stainless Steel per ASTM A313
Diaphragm Gasket..... Filled PTFE
Diaphragm ..... Phosphor Bronze (UNS C51000) per ASTM B103
EC Poppet Seal Ring.....PTFE
PB Seat ..... Modified PTFE
Backcap Gasket ..... Copper (UNS C11000) per ASTM B152

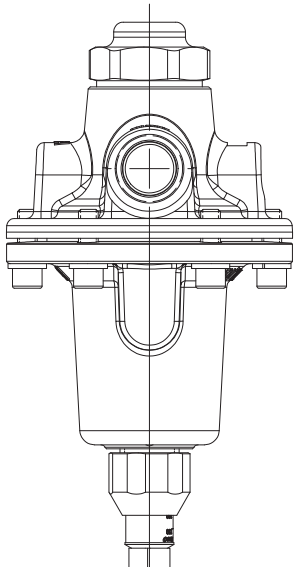
Ordering Information

Part Number	Inlet/Outlet Connections in. (DN)	Operating Range psig (barg)	Weight lb (kg)
CBE504-025 to 075	Pressure Build Inlet/Outlet: ½” (15) Economizer Outlet: ¼” (8)	25 - 85 (1.7 - 5.9)	4.4 (2.0)
CBE504-076 to 155		50 - 170 (3.4 - 11.7)	
CBE504-156 to 260		100 - 280 (6.9 - 19.3)	
CBE504-261 to 450		200 - 460 (13.8 - 31.7)	
CBE504-451 to 550		400 - 550 (27.6 - 37.9)	

* Add “A” suffix to Part Number to include ½" NPTF economizer port adapter, e.g. CBE504-120A. Adapter 489-09P also sold separately.

Cryogenic ½” Combination Pressure Builder / Economizer
CBE504 Series

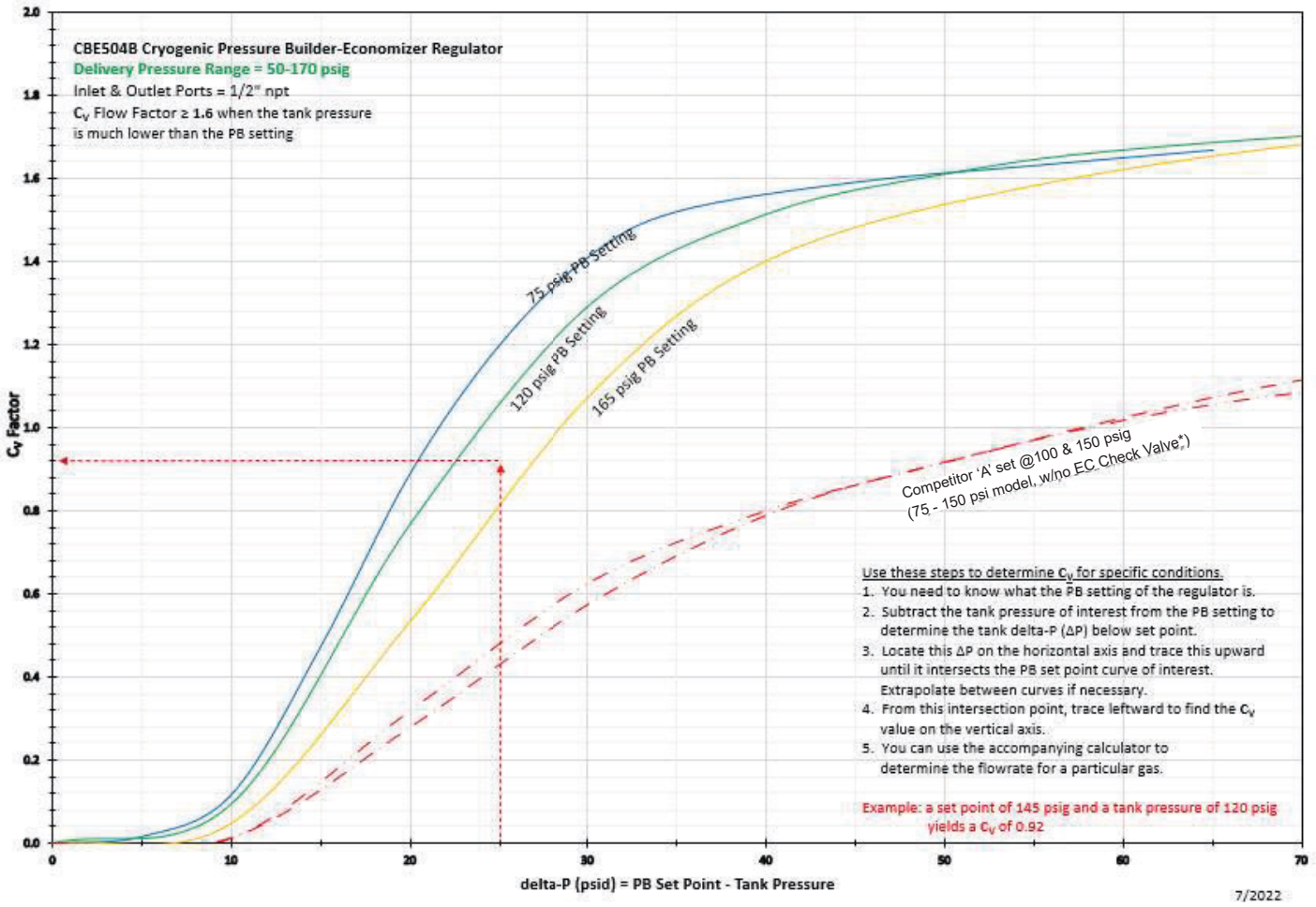




CBE504B Flow Performance

C_V vs. delta-P at Various Set Points

Flow Factor (Cv) vs. Amount Tank Pressure is Below Regulator Set Point



* NOTE: Pressure build speed performance not impacted by use with or without internal EC Check Valve; only economizer speed impacted.

Cryogenic ½” Pressure Builder
PB504 Series

Application

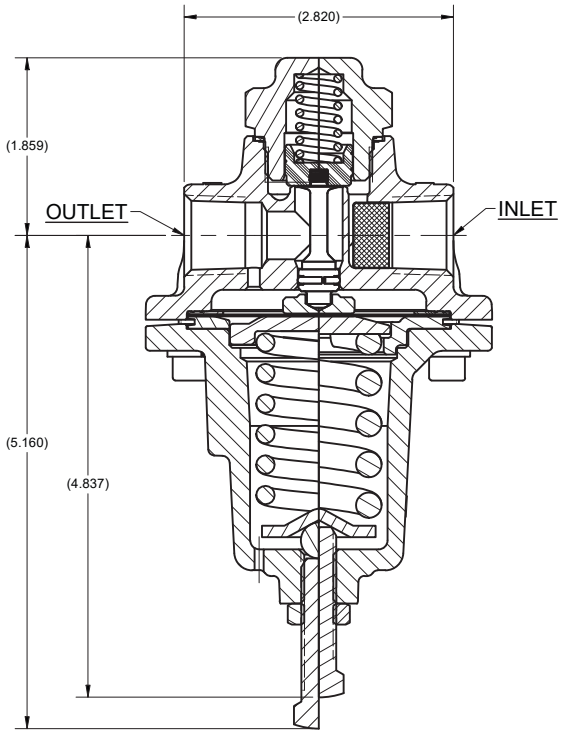
PB series cryogenic regulators are primarily designed to maintain the pressure in cryogenic containers; they may also be used as a line regulator for cryogenic lines and cold gas lines. They are specifically useful in installations where the precision in pressure control and flow capability are important. For use with oxygen, nitrogen, argon, LNG and CO_2.

REGO 10 YEAR WARRANTY

PB504

Features

- All parts are copper alloy (brass), PTFE and stainless steel—materials selected specifically for compatibility with cryogenic temperatures down to -320°F. (-196° C)
- One-piece PTFE Poppet seat design eliminates possible leak paths at cryogenic temperatures and provides better guidance for improved seating, ensuring a positive shutoff.
- High and low pressure regulators are the same compact size—designed to fit in close quarters
- Customizable pressure settings between 20 - 550 psig (1.4 - 37.9 barg)
- Interchangeable with existing cryogenic regulator units
- Inlet filter (150 Mesh) helps prevent foreign material from entering the regulator
- Easier to service, use an allen wrench versus large crescent wrench
- Less field repair because diaphragm is squeezed versus twisted
- Locknut is provided to maintain adjusting screw setting
- Maximum inlet pressure of 600 psig (41.4 barg)
- Cleaned for oxygen service per CGA G-4.1
- 100% Factory Tested
- Copper Backcap Gasket reduces the possibility of external leakage at cryogenic temperatures, as the contraction coefficient is similar to that of brass



Materials

Body	Brass
Bonnet	Brass
Poppet	PTFE
Springs	Stainless Steel
Diaphragm Gasket	PTFE
Backcap Gasket	Copper
Diaphragm	Bronze

PB504 Series part number configuration

PB504 - 205

- PB504 - Series
- 205 - Set Pressure psig

Ordering Information

Part Number	Inlet / Outlet Connections (F.NPT) A Inches (mm)	Delivery Pressure Setting Range psig (barg)	Weight
PB504-020 to 070	½” (12.70)	20 - 75 psig (1.4 - 5.2 barg)	4.75 lbs
PB504-071 to 175		50 - 180 psig (3.4 - 12.4 barg)	
PB504-176 to 300		150 - 300 psig (10.3 - 20.7 barg)	
PB504-301 to 465		250 - 465 psig (17.2 - 32.1 barg)	
PB504-466 to 550		400 - 550 psig (27.6 - 37.9 barg)	

Delivery pressure setting psig specified by suffix in PB regulator number. Example: An order for PB504-125 has a maximum inlet pressure rating of 600 psig (41.3 barg) and is set at an outlet pressure of 125 psig (8.6 barg).

Heavy Duty Gas Line Regulator
1780 Series

Application

The 1780 Series Regulators are designed for final line pressure regulation on gas distribution systems. They are suitable for a variety of gases in medical or industrial applications. The 1780 Series Regulators have a balanced seat, are constructed with oxygen compatible materials, and have the same valve design, brass body, and internal parts as the premium BR-1780 Series. Flow performance is equal to the BR-1780 Series. Compatible with oxygen, nitrogen, argon, hydrogen, helium, CO_2, and LNG.

REGO 10 YEAR WARRANTY

1780 Series

Features

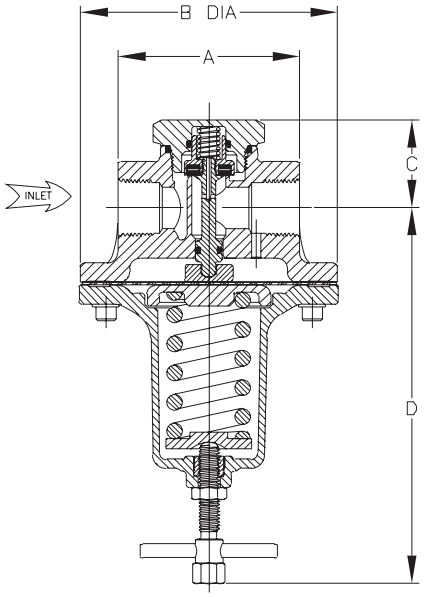
- Maintains a steady downstream pressure across a range of inlet pressures commonly provided by a cryogenic bulk tank
- Large seat and diaphragm areas provide high capacity with sensitive control of delivery pressure with low falloff
- Two ¼" FNPT delivery pressure gauge ports are located (plugged) on each side of the valve
- Two bonnet drain/vent holes to allow for different mounting orientation
- T-handle adjusting screw
- Gages are cleaned to ANSI/ASME B40.1 Level IV
- Maximum inlet pressure is 500 psig (34.5 barg)
- Available in four delivery pressure ranges (A-D)
- Temperature range: -40° F to +165° F. (-40°C to +74°C)
- Cleaned per CGA G-4.1 for oxygen service
- 100% Factory Tested

Materials

Body ..... Forged Brass
Bonnet ..... Nickel Plated Aluminum
Diaphragm ..... Nitrile with PTFE liner
Springs and Fasteners ..... Stainless Steel
Other valve parts ..... Brass
Seat Disc & O-Rings..... Viton is standard

For Carbon Dioxide or Nitrous Oxide service: Specify EPDM material for seat disc and O-rings, add "E" to end of part number.

1780 SER



Ordering Information

Part Number	Delivery Pressure Range	Pressure Gauge*		Inlet & Outlet (F.N.P.T.)		Dimensions								Cv (Kv)
		Range (psig)	P/N			"A"		"B"		"C"		"D"		
				Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
1784A	5-55 psig (0.3-3.8 barg)	1-100	1286B	½"	22	2.82"	1.28	3.62"	1.64	1.38"	.62	5.47"	2.5	3.1 (2.68)
1784B	40-110 psig (2.8-7.6 barg)	1-200	S1679B											
1784C	100-200 psig (6.9-13.8 barg)	1-400	15578											
1784D	175-300 psig (12.1-20.7 barg)													
1786A	5-55 psig (0.3-3.8 barg)	1-100	1286B	¾"	34	3.31"	1.50	4.69"	2.12	1.60"	.72	6.84"	3.1	4.8 (4.15)
1786B	40-110 psig (2.8-7.6 barg)	1-200	S1679B											
1786C	100-200 psig (6.9-13.8 barg)	1-400	15578											
1786D	175-275 psig (12.1-19.0 barg)													
1788A	5-55 psig (0.3-3.8 barg)	1-100	1286B	1"	45									5.5 (4.75)
1788B	40-110 psig (2.8-7.6 barg)	1-200	S1679B											
1788C	100-200 psig (6.9-13.8 barg)	1-400	15578											
1788D	175-275 psig (12.1-19.0 barg)													

*Regulator sold without gauge. Order gauge separately.

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Heavy Duty Brass Final Line Pressure Regulator
BR-1780 Series

Application

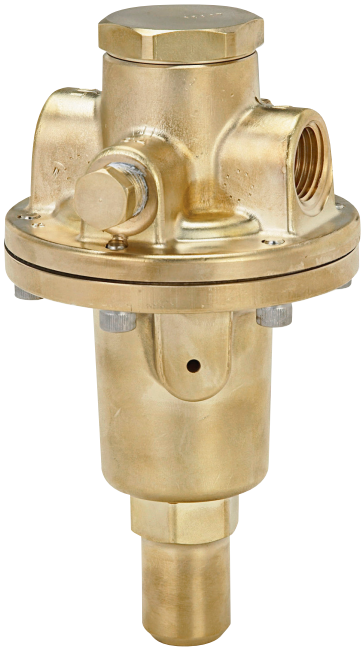
BR-1780 Series Regulators are designed for final line pressure regulation on medical oxygen systems. They are equally suitable for a variety of gases in medical or industrial applications. The BR-1780 Series Regulators have a balanced seat, are constructed with oxygen compatible materials, and offer a tamper resistant adjustment screw cap. Flow performance is impressive as well offering up to 30,000 SCFH for the ¾" and 1" model and up to 20,000 SCFH for the ½" model. Compatible with oxygen, nitrogen, argon, hydrogen, helium, CO_2, and LNG.

REGO 10 YEAR WARRANTY

BR-1784

Features

- Maintains a steady downstream pressure across a range of inlet pressures commonly provided by a cryogenic bulk tank
- Large seat and diaphragm areas provide high capacity with sensitive control of delivery pressure with low falloff
- Two ¼" FNPT plugged delivery pressure gauge ports are located on each side of the valve
- Two bonnet drain/vent holes to allow for various mounting orientations
- Bonnet cap covering adjusting screw for tamper protection
- Gages are cleaned to ANSI/ASME B40.1 Level IV
- Maximum inlet pressure is 500 psig (34.5 barg)
- Available in four delivery pressure ranges. (A-D)
- Temperature range: -40° F to +165° F. (-40ºC to +74ºC)
- Cleaned per CGA G-4.1 for oxygen service
- 100% Factory Tested



BR1786 and BR1788

Materials

Body ..... Forged Brass
Bonnet ..... Forged brass
Diaphragm ..... Nitrile with PTFE liner
Springs, fasteners, and adjusting screw ..... Stainless Steel
Other valve parts ..... Brass
Seat Disc & O-Rings ..... Viton is standard

For Carbon Dioxide and Nitrous Oxide Service: Specify EPDM material for seat disc and 0-Rings, add "E" to end of part number.

Ordering Information

Part Number	Delivery Pressure Range	Pressure Gauge*		Inlet & Outlet (F.N.P.T.)		Dimensions								Cv (Kv)
						"A"		"B"		"C"		"D"		
		Range (psig)	P/N	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
BR-1784A	5-55 psig (0.3-3.8 barg)	1-100	1286B	½"	12.7	2.82"	71.62	3.62"	91.94	1.38"	35.05	5.21"	132.33	3.1 (2.68)
BR-1784B	40-110 psig (2.8-7.6 barg)	1-200	S1679B											
BR-1784C	100-200 psig (6.9-13.8 barg)	1-400	15578											
BR-1784D	175-300 psig (12.1-20.7 barg)													
BR-1786A	5-55 psig (0.3-3.8 barg)	1-100	1286B	¾"	19.05	3.31"	84.07	4.69"	119.12	1.60"	40.64	6.46"	164.08	4.8 (4.15)
BR-1786B	40-110 psig (2.8-7.6 barg)	1-200	S1679B											
BR-1786C	100-200 psig (6.9-13.8 barg)	1-400	15578											
BR-1786D	175-275 psig (12.1-19.0 barg)													
BR-1788A	5-55 psig (0.3-3.8 barg)	1-100	1286B	1"	25.4									5.5 (4.75)
BR-1788B	40-110 psig (2.8-7.6 barg)	1-200	S1679B											
BR-1788C	100-200 psig (6.9-13.8 barg)	1-400	15578											
BR-1788D	175-275 psig (12.1-19.0 barg)													

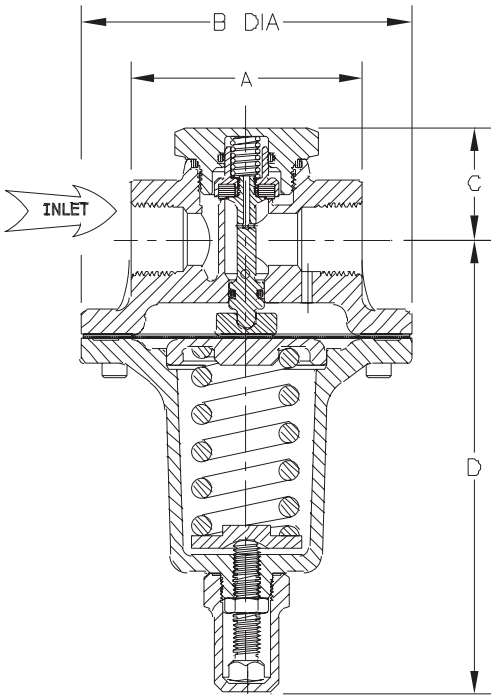
*Regulator sold without gauge. Order gauge separately.

Heavy Duty Brass Final Line Pressure Regulator
BR-1780 Series

Flow Performance

See the RegO Flow Performance Curves section of the catalog for more detailed flow curves.

For Carbon Dioxide or Nitrous Oxide Service, add “E” to end of part number.



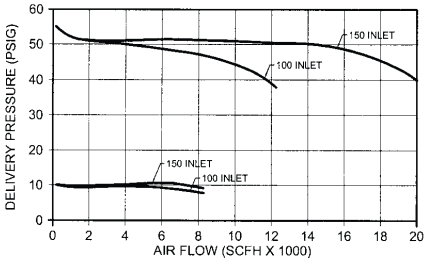
Maintenance and Options Kits

Regulator Models	BR1784	BR1786	BR1788
Repair Kit Part Number	BR-1784-80	BR-1786-80	BR-1786-80
Spring Kit Part Numbers:			
“A” spring 5 –55 psig (.34-3.79 barg)	BR-1784-7SKA	BR-1786-7SKA	BR-1788-7SKA
”B” spring 40-110 psig (2.75-7.58 barg)	BR-1784-7SKB	BR-1786-7SKB	BR-1788-7SKB
”C” spring 100-200 psig (6.89-13.78 (barg)	BR-1784-7SKC	BR-1786-7SKC	BR-1788-7SKC
”D” spring 175-275 psig (12-19 barg) 300 psig (20 barg) for 1784	BR1784-7SKD	BR-1786-7SKD	BR-1788-7SKD
T-Handle Screw Option Kit	BR-1784ST	BR-1786ST	BR-1786ST

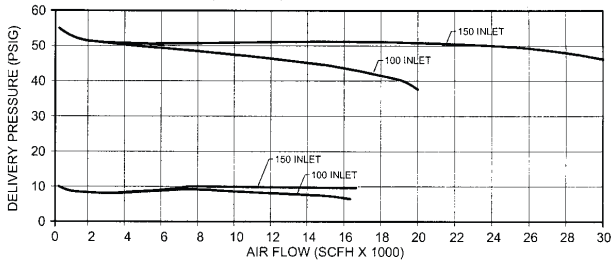
Heavy Duty Line Regulators Performance Curves
1780 Series & BR-1780 Series

"A" spring range 5 - 55 psig

1784A & BR-1784A



1786A, 1788A, BR-1786A & BR-1788A

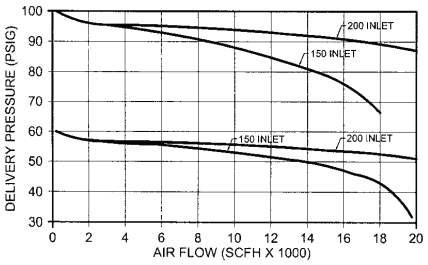


Gas Conversion Table

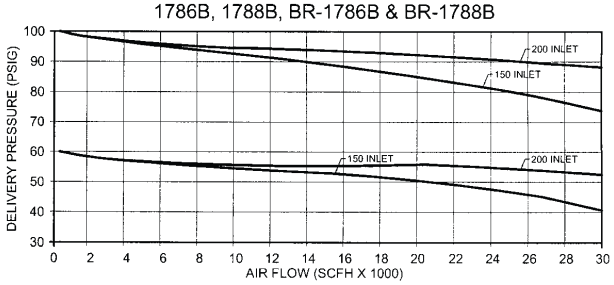
Service	Multiply Air Capacity By:
Fuel Gases	0.86
Helium	2.69
Hydrogen	3.79
Nitrogen	1.02
Natural Gas	1.25
Acetylene (15 psi max.)	1.06
Argon	0.85
Carbon Dioxide	0.81
Nitrous Oxide	0.81
Oxygen	0.95

"B" spring range 40 - 110 psig

1784B & BR-1784B

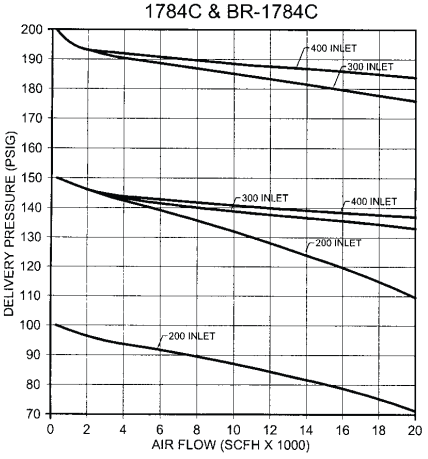


1786B, 1788B, BR-1786B & BR-1788B

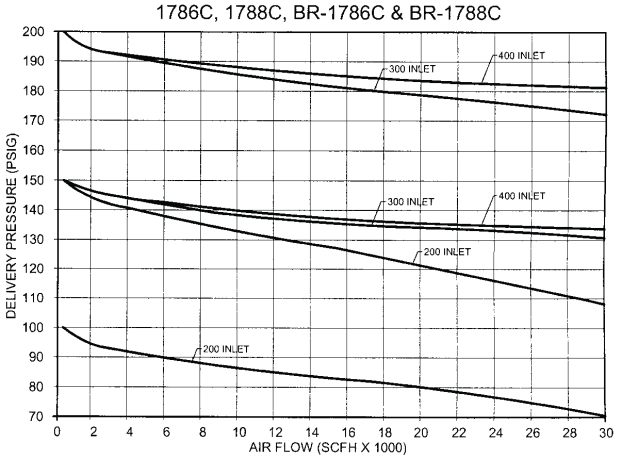


"C" spring range 100 - 200 psig

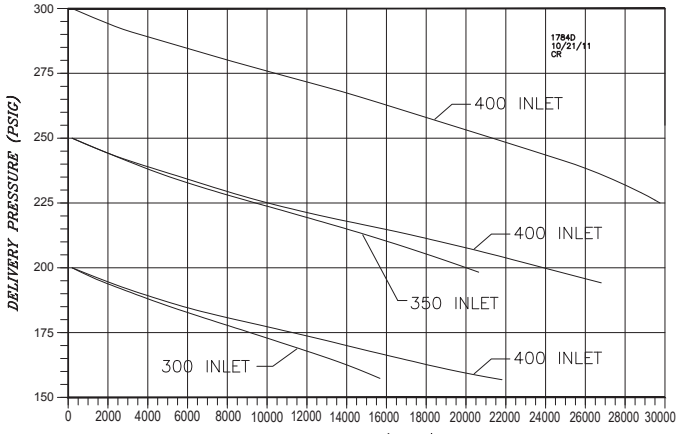
1784C & BR-1784C



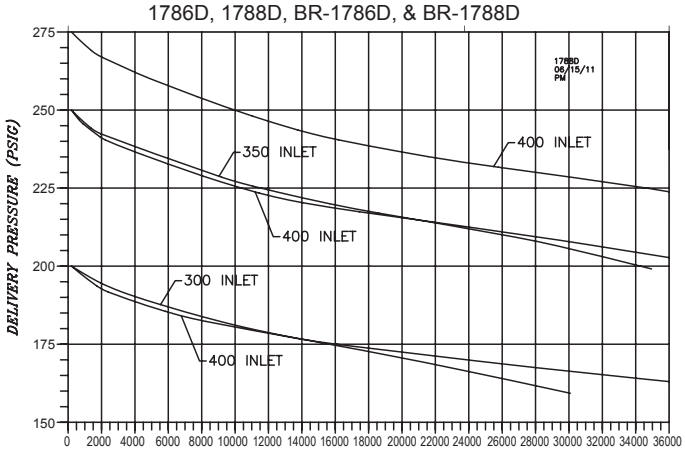
1786C, 1788C, BR-1786C & BR-1788C



1784D & BR1784D



1786D, 1788D, BR-1786D, & BR-1788D



Aluminum Pressure Regulators
1682M Series & C-1682M Series

Application

The 1682M Series Regulators are designed primarily for second stage regulation of a variety of gases in industrial and hospital piping systems and manifolds. The C-1682M Series is specifically designed for use with Carbon Dioxide.

REGO 10 YEAR WARRANTY

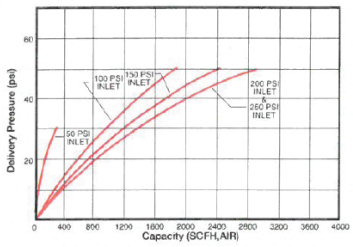
Features

- Maximum inlet pressure is 400 psig (28 barg)
- Two ¼" F.NPT gauge ports are located 180° apart to allow for gauge mounting in convenient positions
- Each 1680M Series regulator is cleaned and packaged for oxygen per CGA G-4.1
- 100% Factory Tested
- T-handle adjusting screw
- Gages are cleaned to ANSI/ASME B40.1 Level IV
- Available in three delivery pressure ranges
- Temperature Range: -40° F to +165°F (-40ºC to +74ºC)

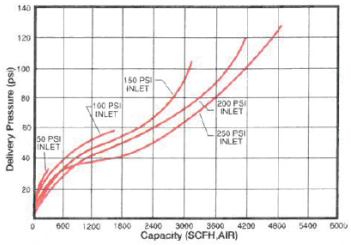
Materials

Body ..... Forged Aluminum
Bonnet ..... Aluminum
Seat Disc (1682M) ..... Neoprene
Seat Disc (C-1682M) ..... EPDM
Diaphragm (1682M) ..... Neoprene
Diaphragm (C-1682M) ..... EPDM

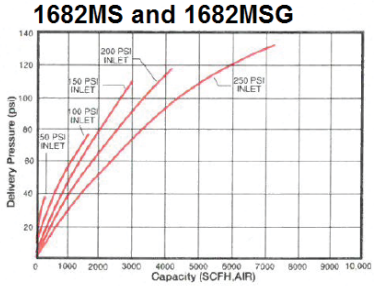
1682ML and 1682MLG



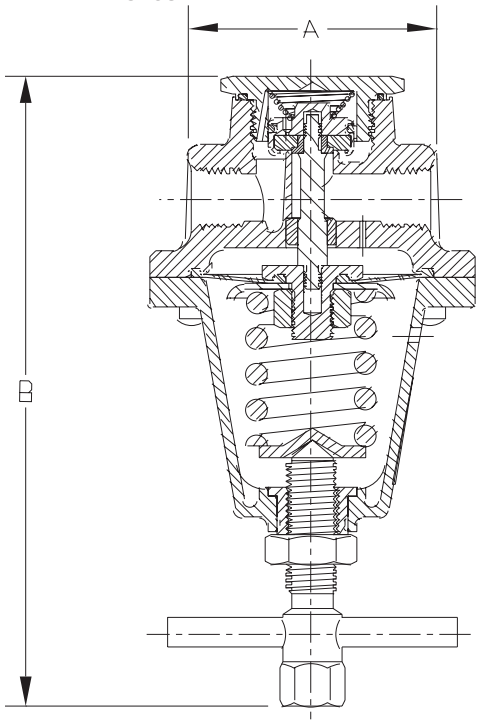
1682M and 1682MG



1682MS and 1682MSG



C-1682M



Ordering Information

Part Number		Delivery Pressure Range (psig)	Pressure Gauge		Inlet & Outlet Connection (F.NPT)		Width A		Maximum Height B	
			Range psig (barg)	Part Number	Inches	mm	Inches	mm	Inches	mm
1682ML	C-1682ML	5-50 psig (0.3-3.4 barg)	*	*	¼"	6	2 3/16"	56	4 ⅛"	105
1682MLG	C-1682MLG		1-100 (6.89)	1286B						
1682M	C-1682M	50-125 psig (3.4-8.6 barg)	*	*						
1682MG	C-1682MG		1-200 (13.78)	S1679B						
1682MS	C-1682MS	100-250 psig (6.9-17.2 barg)	*	*						
1682MSG	C-1682MSG		1-400 (27.57)	15578						

* Pressure gauge not included.

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Automatic Changeover Regulators
M2523HP Series

Application

M2523HP series automatic changeover regulators are designed especially for use in systems where a reserve cylinder is used to provide a continuous, uninterrupted supply of gas. These regulators are suitable for use with carbon dioxide, hydrogen, oxygen, industrial air, nitrous oxide, nitrogen, helium and argon.

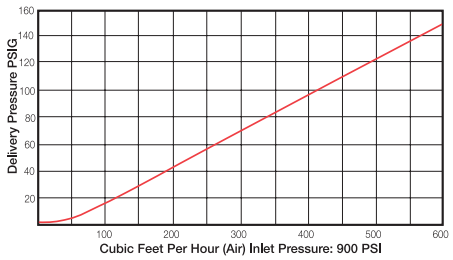
Features

- Automatically withdraws from the reserve cylinder after exhausting the "service" cylinder
- Cylinder pressure gauges let you know at a glance the contents of each cylinder is in use. There is no need to shutdown the system to replace empty cylinders
- Nickel plated
- 100% Factory Tested
- Cleaned per CGA G-4.1 for oxygen service
- Porous bronze filters are installed in each inlet to minimize the entry of foreign particles
- Back pressure check valves are installed in each inlet to help assure positive shut-off in case of reverse flow
- Each unit comes complete with mounting bracket and a special delivery pressure adjustment wrench
- Factory set at 50 psig (3.44 barg) on service side. CO_2 and N_2O regulators are factory set at 100 psig (6.89 barg) on service side

Materials

Body	Brass
Bonnet	Brass
Seat Disc (all gases except CO_2)	Viton
Seat Disc (CO_2 Only)	Butyl Rubber
Diaphragm (all gases except CO_2)	Neoprene
Diaphragm (CO_2 Only)	Buna N
Handle	Aluminum
Bonnet Spring	Steel
Backcap Spring	Stainless Steel

Performance Chart

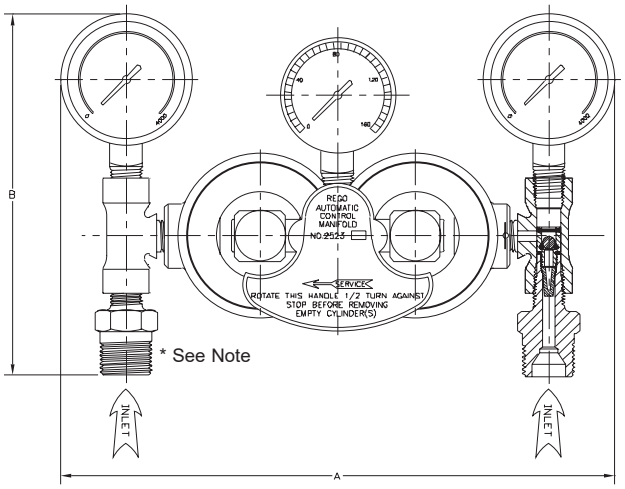


Conversion Table

Source	Multiply
Carbon Dioxide	.81
Nitrogen	1.02
Nitrous Oxide	.81
Argon	.85
Oxygen	.95
Helium	2.69
Hydrogen	3.79

REGO 10 YEAR WARRANTY

M2523HP Series



Ordering Information

Part Number	Gas Service	*CGA Inlet Connection	Outlet Connection		Width A		Height B		Maximum Inlet Pressure	Delivery Pressure Range	Accessory Regulators
			Inches	mm	Inches	mm	Inches	mm			
M2523HP320	Carbon Dioxide	320	¼" F.NPT	6	7¾"	196	5⅛"	130	1800 psig (124.2 barg)	30-130 psig (2.1-8.9 barg)	BR-1784E, 1784E C-1682 M Series
M2523HP326	Nitrous Oxide	326									
M2523HP350	Hydrogen	350							3000 psig (202 barg)		1784 Series 1682 M Series BR 1784 Series
M2523HP540	Oxygen	540									
M2523HP580	Nitrogen, Argon, Helium	580									
M2523HP590	Industrial Air	590									

*Inlet Connection appearance will vary depending on the CGA connection chosen. CGA540 connection shown. CGA connections may have internal or external threads.

Low Pressure Line Regulators
4403 Series

Application

The 4403 series regulators provide very sensitive control of a variety of gases at low pressures. The large molded diaphragm assures responsive regulation with inlet pressures up to 250 psig.

Features

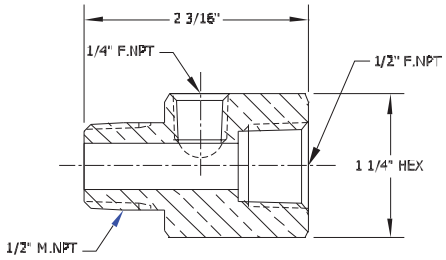
- Large molded diaphragm provides highly sensitive and accurate low pressure control
- Zinc body and bonnet resist corrosion and provide longer life
- Teflon seat disc, teflon faced diaphragms, and stainless steel nozzles make the T4403J regulators compatible with a variety of gases
- LV4403C2H42 features integral relief valve set at 3 psig (0.2 barg)
- Adjusting screw is concealed by a plastic cap which helps prevent pressure adjustments by unauthorized personnel
- Pressure gauge adapter available part # 1494-1
- Working temperature range is -40°F to +165°F. (-40ºC to +74ºC)
- Not suitable for oxygen applications

REGO 10 YEAR WARRANTY

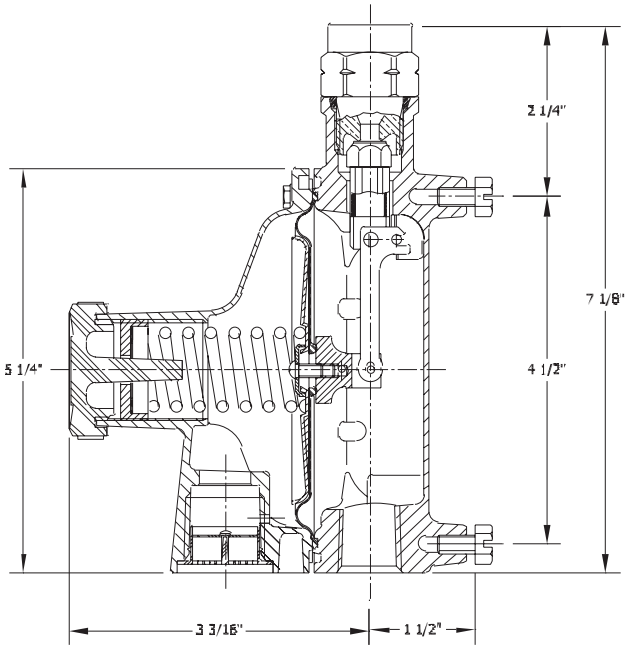
LV4403C2H42

Materials

Body	Zinc
Bonnet	Zinc
Diaphragm	T4403J, 4403W, S4, T4, U4 Teflon Faced Buna N
4403WP4, R4	Buna N
(LV4403C)	Integrated Fabric and Synthetic Rubber
Spring	Steel
Seat (T4403J)	PTFE
(4403W) (LV4403C)	Buna N
Nozzle (T4403J)	Stainless Steel
(4403W, LV4403C)	Brass



1494-1
PREESURE GAUGE ADAPTER



Ordering Information

Part Number	Inlet Connection		Outlet Connection		Factory Delivery Pressure*	Delivery Adjustment Range	Relief Setting
	Inches	mm	Inches	mm			
4403W-P4	½" F.NPT	13	½" F.NPT	13	5" w.c.	3.5 - 6" w.c.	None
4403W-R4					25" w.c.	15 - 28" w.c.	
4403W-S4					5 psig (0.34 barg)	1-5 psig (0.07-0.34 barg)	
4403W-T4					10 psig (0.69 barg)	5-10 psig (0.34-0.69 barg)	
4403W-U4					15 psig (1.03 barg)	10-15 psig (0.69-1.03 barg)	
LV4403C2H42	¼" F.NPT	6			1.5 psig (0.1 barg)	1.5 psig (0.1 barg)	3 psig (0.21 barg) ± 20%
T4403JS2					5 psig (0.34 barg)	1-5 psig (0.07-0.34 barg)	None
T4403JT2					10 psig (0.69 barg)	5-10 psig (0.34-0.69 barg)	

* Based on 50 psig inlet pressure. LV4403C2H42 based on 100 psig inlet pressure.

Inertrol Outfits
4286 Series, 4289 Series & 4291 Series

Application

The 4286, 4289, and 4291 series Inertrol outfits are three stage nitrogen regulators especially designed to maintain oil filled transformer atmospheres at 0.5 psig (.03 barg). Each Inertrol outfit consists of a two-stage regulator connected in series to a highly sensitive single-stage regulator which maintains the 0.5 psig (.03 barg) pressure. A built-in pressure relief valve in the third stage regulator helps protect against over-pressurization of the system.
Inertrol units are designed for oil-filled transformers manufactured by ABB, Inc., General Electric, and Cooper Power. Some outfits are equipped with an alarm switch that activates a customer equipped warning device should the cylinder pressure drop below 300 psig (20 barg) .

REGO 10 YEAR WARRANTY

Features

- Heavy duty brass and aluminum construction resists corrosion and provides for longer life
- The 4289 series incorporates a special by-pass valve to allow for quick filling of the transformer
- Hidden pressure adjusting screw helps protect against tampering by unauthorized personnel
- Large diameter diaphragm in the third-stage regulator provides for sensitive and precise control of the gas flow
- Maximum inlet pressure - 3000 psig (206 barg)

Materials

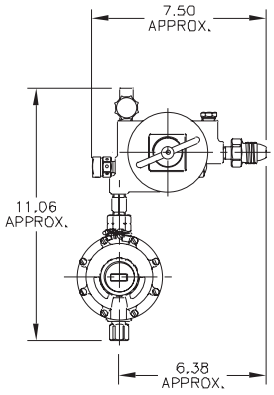
Two-Stage Regulator:

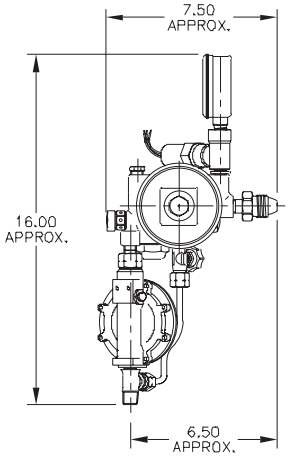
Body ..... Brass
Bonnet ..... Brass
Diaphragms ..... Synthetic Rubber
1st Stage Seat Disc ..... Nylon
2nd Stage Seat Disc ..... Neoprene

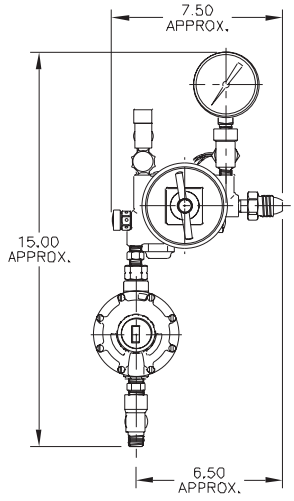
Third-Stage Regulator:

Body ..... Zinc
Bonnet ..... Zinc
Diaphragm ..... Buna N
Seat Disc ..... Buna N

Inertrol Outfit







Ordering Information

4286A580 4289 Series 4291A

Part Number	Gas Service	Inlet	Outlet		Two Stage Regulator Part number	Third Stage Regulator Part Number	Alarm Gauge	Transformer Manufacturer
			Inches	mm				
4286A580	Nitrogen	CGA580	⅛" NPT	3	4286A-2NW	LV4286-10-8	None	ABB, Inc.
4289AG			9⁄16" -18 L.H.	14	4289A-2G	LV4289-10	4285-9B	General Electric
4289G							None	
4291A			⅜" NPT	.9	4291B-2P	LV4286-10-8	4285-9B	Cooper Power

High Pressure Gas Regulator
4200 Series

Application

4200 Series high-pressure regulators are designed especially for use in high-pressure cylinders and are used to provide the supply of gas. These regulators are suitable for use with industrial air, nitrogen, helium, and argon.

Features

- Cylinder pressure gauges let you know at a glance whether the contents of the cylinder is in use and the supply pressure
- Temperature rating: -40° F to +165°F (-40ºC to +74ºC)
- MAWP: 3000 psig (206 barg)
- Cleaned and packaged for oxygen service per CGA G-4.1
- Pressure relief valve incorporate or protection of the low pressure system
- 100% factory tested. Each valve is individually bagged and boxed to arrive in factory new condition until installation

Materials

Body ..... Brass
Bonnet ..... Brass
Seat Disc ..... Neoprene
Diaphragm .....Nitrile
Bonnet Spring..... Stainless Steel
Blackcap Spring..... Stainless Steel

REGO 10 YEAR WARRANTY

4291B-2P with 5563 & 15578

Ordering Information

New Part Numbers	Adjustment Screw Cap	Inlet Pressure	Inlet Connection	Outlet Connection	Inlet Pressure Gauge	Outlet Pressure Gauge	Gas Use
4291B-2P	No	3000 psig (206 barg)	CGA 580	¼" FNPT	5563	15578	Nitrogen, Argon, Helium, CO2/Argon mixture.
4289A-2GP	Yes						

* Pressure gauges sold separately.

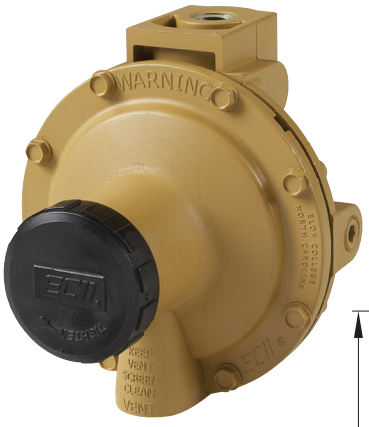
Low Pressure Regulators LV4286-10 Series & LV4289-10 Series

Application

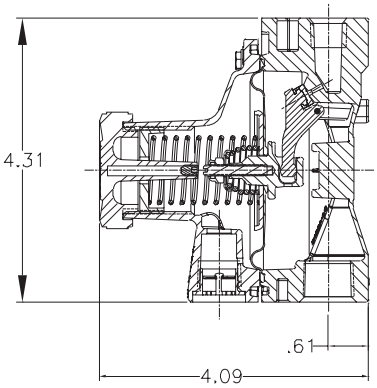
The LV4286 and LV4289 series Inertrol third-stage low pressure regulators are designed especially for secondary regulation of gaseous nitrogen on electrical transformer systems.

Factory preset at 14” to 15” water column delivery pressure with an inlet pressure of 5 to 10 psig.

REGO 10 YEAR WARRANTY



LV4286-10-8



Features

- Large diaphragm allows for highly sensitive and accurate low pressure control
- Incorporates integral relief valves (except on LV4289-10)
- Zinc body and bonnet resist corrosion and provide longer life
- Adjusting screw is concealed by a cap to help prevent against tampering by unauthorized personnel
- Operating temperature range is -40°F to +160°F (-40°C to +71°C)

Materials

Body ..... Zinc
Bonnet ..... Zinc
Diaphragm ..... Buna N
Seat Disc ..... Buna N
Spring ..... Steel

Ordering Information

Part Number	Inlet (NPT)	Outlet (NPT)	Delivery Pressure Setting	Relief Valve Setting
LV4286-10-5	¼”	½”	14”-15” w. c.	5 psig (.34 barg)
LV4286-10-8				8 psig (.55 barg)
LV4289-10				None

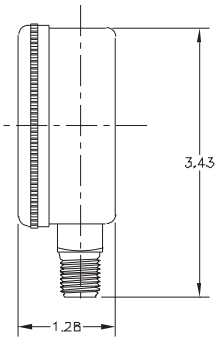
Alarm Gauges 4285-9B

Application

The 4285-9B inertrol alarm gauges are designed to alert the user when pressure has fluctuated ±90 psig (6.2 barg) from the 300 psig (20 barg) factory setting. Under these conditions, electrical contacts in the switch will close and set off a user-furnished alarm system.

REGO 10 YEAR WARRANTY

4285-9B



Features

- Solid brass gauge casing resists corrosion and provides for longer life
- Equipped with a heavy-duty, 36” long, 3-wire electrical cable
- Each gauge is factory pre-set at 300 psig (20 barg), then sealed to help prevent against tampering once in service
- Electrical circuit is rated for a maximum of 3 AMPS at 460 volts AC

Materials

Gauge Case ..... Brass

Ordering Information

Part Number	Inlet M.NPT	Diameter		Pressure Range psig	Adjustable	Alarm Furnished
		Inches	mm			
4285-9B	¼”	2½”	63.5	0 - 4000 (0 - 275 barg)	No	None

High Pressure Gas Master Valves
HP9560 Series

Application

The HP9560 Series high pressure brass valves are used on cylinder filling panels, tube trailers, and high pressure manifolds and piping systems. The HP9560 Series exhibits a very low operating torque under pressure for ease of manual operation.

REGO 10 YEAR WARRANTY

Features

- 5600 psig (386 barg) maximum working pressure
- Non-rising stem design with O-Ring Seal for durable service
- Large brass handwheel for easy low torque operation under pressure
- All valves cleaned for use in oxygen per CGA G-4.1
- Temperature range -40°F to +165°F(-40°C to +74°C)
- 100% Factory Tested

STANDARD BONNET VALVE

Materials

Body, bonnet, stem, and seat retainer, stem seal retaining rings and washer	Brass
Stem O-ring	Viton
Thrust bearing	PCTFE
Handwheel	Aluminum

PANEL MOUNT VALVE

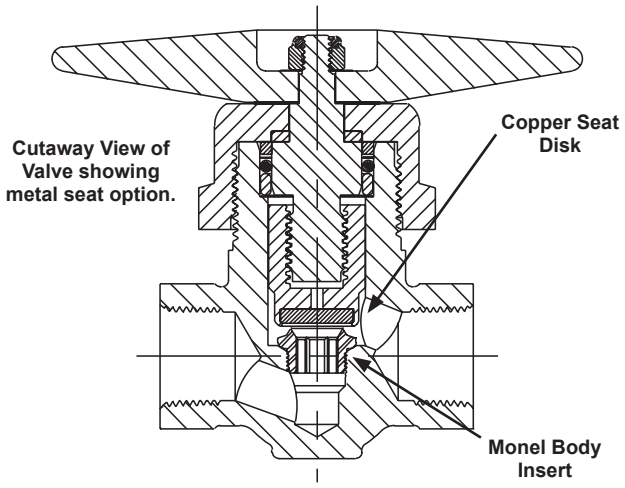
Soft Seat Option
The soft seat valves use a PCTFE seat disc in the seat retainer to create a “bubble-tight” seal against a machined seat surface on the brass body. Valve Cv is 2.6. The soft seat option is especially useful for small molecule gases like hydrogen and helium, but can be used for a variety of non-corrosive industrial gases including argon, nitrogen, carbon dioxide, nitrous oxide, and acetylene.

Metal Seat Option:
A copper seat disc is used in the seat retainer to create a seal against a Monel body seat, which is installed into the body and can be replaced. Valve Cv is 2.3. The metal seat option minimizes the possibility of seat decomposition or ignition in oxygen service under adiabatic compression. The metal seat option is recommended for oxygen, and can also be used for other non-corrosive industrial gases. The metal seat option is not to be used for acetylene due to the copper seat. Not to be applied in hydrogen or helium service or where a “bubble-tight” seal is essential. (Note: C in part number)

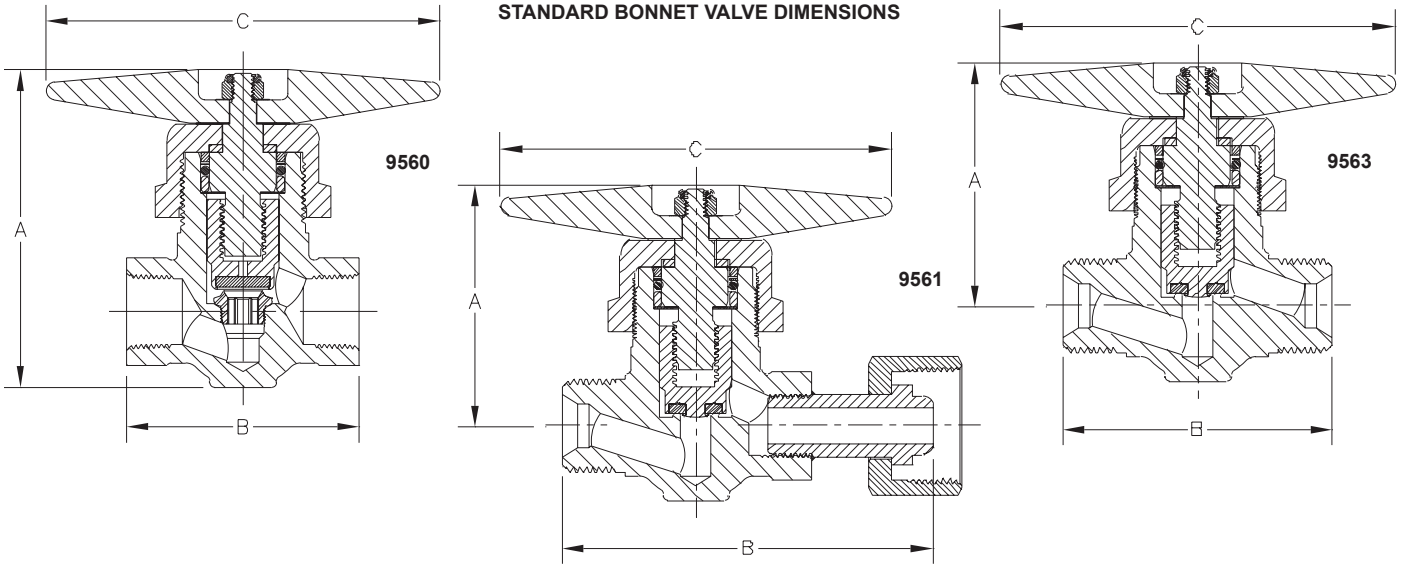
Metal Seat Option approved according to Adiabatic compression test.

Nylon seat option: available also (ex. HP9560NB).

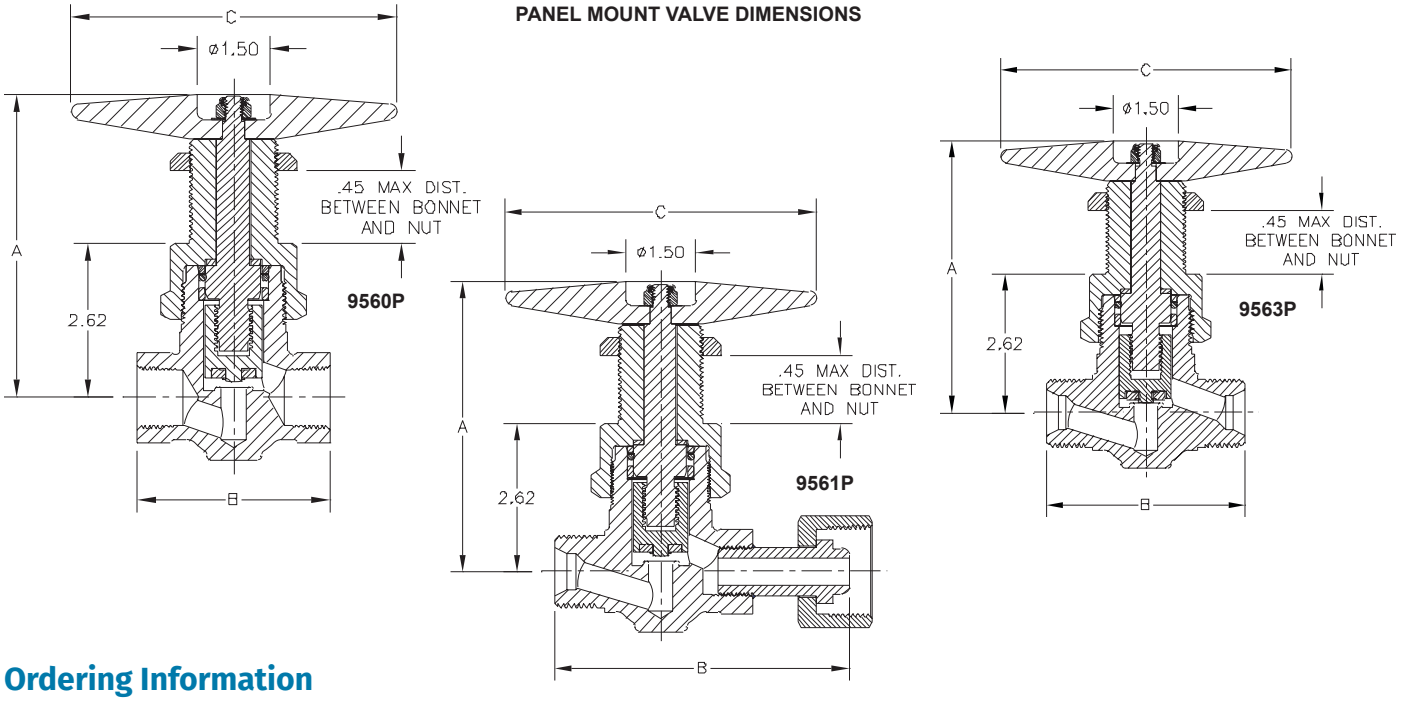
Bonnet Versions
- Standard Bonnet for low profile.
- Panel Mount Bonnet for ease of panel installation. Includes threaded bonnet and nickel plated brass mounting nut. Metal Seat Option 1.625” diameter panel hole required for mounting. (Note: P in part number)



STANDARD BONNET VALVE DIMENSIONS



PANEL MOUNT VALVE DIMENSIONS



Ordering Information

Part Number		Inlet Connection	Outlet Connection	Height A		Length B		Handwheel Length C	
Soft Seat	Metal Seat			Inches	mm	Inches	mm	Inches	mm
HP9560A	HP9560CA	½" F. NPT	½" F. NPT	4.36" *[6.19" for panel mount version]	111 *[157 mm for panel mount version]	3.25"	82	5.5"	140
HP9560B	HP9560CB	¾" F. NPT	¾" F. NPT						
HP9561R	HP9561CR	1"-11½" NPSM R.H.	1"-11½" R.H. Female Swivel			5.27"	134		
HP9561RL	HP9561CRL	1"-11½" NPSM R.H.	1"-11½" NPS L.H. Female Swivel						
HP9561L	HP9561CL	1"-11½" NPSM L.H.	1"-11½" L.H. Female Swivel						
HP9563R	HP9563CR	1"-11½" NPSM R.H.	1"-11½" NPSM R.H.			3.79"	96		
HP9563L	HP9563CL	1"-11½" NPSM L.H.	1"-11½" NPSM L.H.						
HP9560ASE	HP9560CASE	.843 - .847	.843 - .847			3.25"	82		
HP9560BSE	HP9560CBSE	1.053 - 1.057	1.053 - 1.057						
HP9560BSE-B	HP9560CBSE-B	1.053 - 1.057	¾" F.NPT						

Note: Place "P" at end of part number for panel mount version.
Nylon seat option is also available (ex: HP9560NBP)
For different handwheel size consult factory.

Application

7160 series valves are designed for use with oxygen and all fuel gases at station outlets of line distribution systems such as welder's benches, cutting stations, hospital rooms, etc.

REGO 10 YEAR WARRANTY

Features

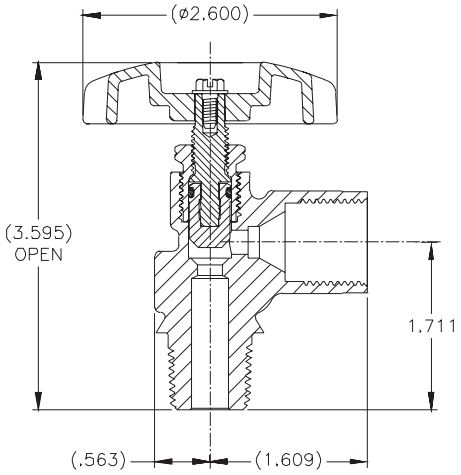
- Approved for oxygen and all fuel gas services at 400 psig (28 barg) maximum working pressure
- All valves cleaned for use in oxygen per CGA G-4.1
- O-ring stem seal works with the pressure causing a tighter seal as pressure increases
- A reverse flow check valve installed in the valve outlet connection helps prevent reverse flow
- Available with brass cap and chain protection
- Meets the requirements of National Fire Protection Association (NFPA) Pamphlet No. 51
- Temperature range -40° F to +165° F (-40°C to +74°C)

7160 Series

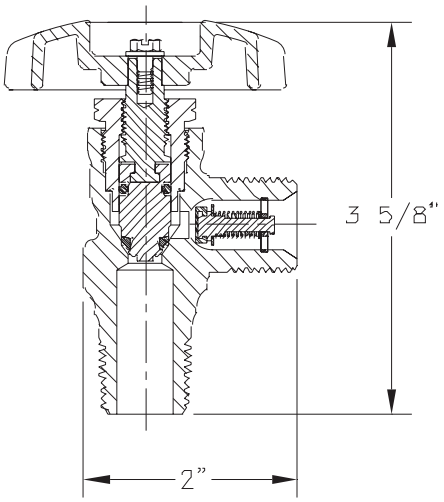
Materials

Body	Brass
Stem and Seat Retainer	Brass
O-ring	Neoprene
Seat Disc	Nylon
Reverse Flow Check Seat	Neoprene

7164



7160 and 7161 Series



Ordering Information

Part Number	Gas Service	Inlet Thread	Outlet Thread	CGA Connection	C_V (Kv)	Outlet Protection*
7160V	Oxygen and Inert Gases	½" NGT	7/8" - 14 M. R.H.	024	.76 (0.65)	10663 Brass Cap & Chain
7160VL						None
7161V	Fuel Gases		7/8" - 14 M. L.H.	025		10664 Brass Cap & Chain
7161VL						None
7164	Inert Gases	½" NPT	7/8" - 14 F. R.H.	034		

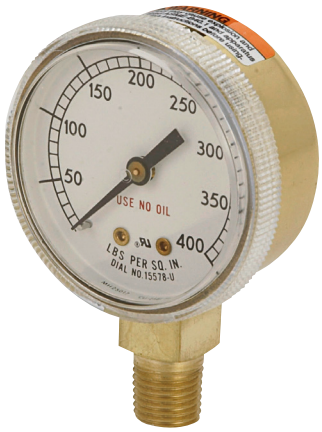
*Outlet Protection is recommended.

Application

Gauges are available in a variety of popular pressure ranges for gas plant applications.

Gauges should be selected so that the maximum working pressure of the particular system represents 66% to 75% of the maximum gauge reading. Greater safety and accuracy may be realized by following these guidelines.

Gages are cleaned per ANSI/ASME B40.1 Level IV



15578

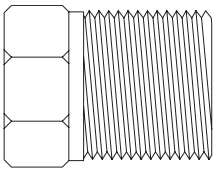
REGO 10 YEAR WARRANTY

Ordering Information

Part Number	Maximum Calibration (psig)	Size	M. NPT	Increment Division (psig)	Case Material
1286B	100 psig (6.89 barg)	2"	¼"	2 psig (0.14 barg)	Steel
2523HP-7	160 psig (11.03 barg)		⅛"	5 psig (0.34 barg)	
S1679B	200 psig (13.79 barg)		¼"		
15578	400 psig (27.58 barg)			10 psig (0.69 barg)	Brass
5562C	4000 psig (275.8 barg)			50 psig (3.45 barg)	Steel

Brass Plugs

(for pressures to 3000 psig)
Safety factor = 5:1



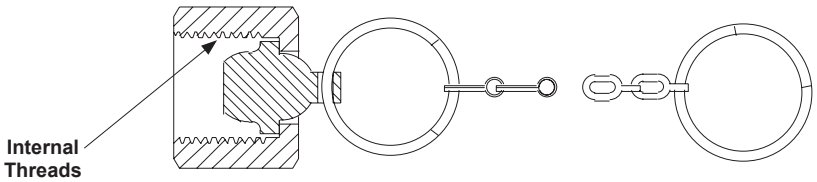
Typical Plug

REGO 10 YEAR WARRANTY

Ordering Information

Part Number	Thread Connection	Hex Flats
985BP	¼" NPT	9/16"
985DP	½" NPT	7/8"
985EP	¾" NPT	1 1/8"
985FP	1" NPT	1 3/8"

Brass Outlet Cap and Chain Assemblies



Cap with Plug

REGO 10 YEAR WARRANTY

Ordering Information

Part Number	Thread Connection	End Ring Fits Pipe
10663	7/8"-14NF-RH	½"
10664	7/8"-14NF-LH	½"

Needle Valves
CMM250 Series and CFF250 Series

Application
Ideal for use as a gauge isolation valve or applications requiring accurate throttling of pressure or in bulk vessel gauging lines .

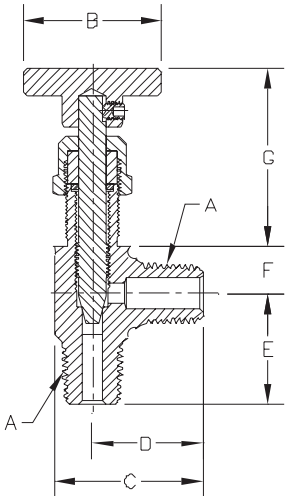
Features
- Compact design provides easy installation
- Fine stem threading and long taper allow precise metering and leak-free shut-off
- Internal stop prevents the stem from being accidentally unscrewed from the body
- Rugged forged brass bodies withstand higher pressures
- Unbreakable brass handwheel
- Valves come equipped for panel mounting
- Working temperature range is -40°F to +165°F (-40ºC to +74ºC)
- Maximum operating pressure: 2000 psig air (137.9 barg)
- Cleaned for oxygen service per CGA G-4.1
- Female ports available - consult factory

REGO 10 YEAR WARRANTY

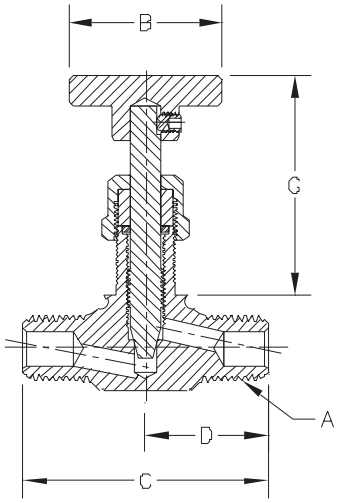
CMM250A

CMM250G

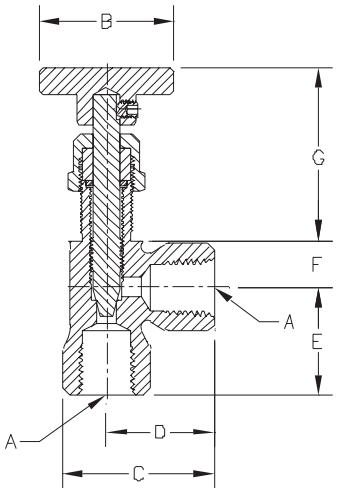
Materials
Body ..... ASTM B283 Brass
Stem ..... Brass
Knob ..... Brass
Bonnet Nut..... Brass
Panel Mount Nut (Optional)..... Brass
Set Screw ..... Steel
Stem Packing ..... PTFE with Brass Gland

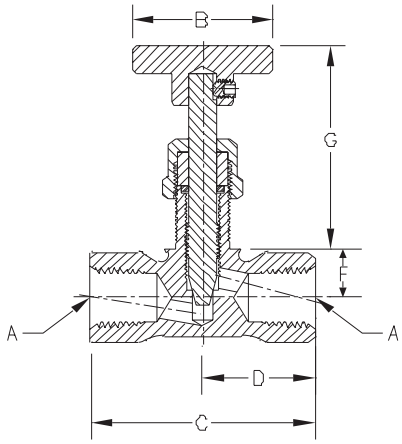


CFF250A



CFF250G





Ordering Information

Part Number	A (NPT)		B		C		D		E		F		G Open		G Closed		C_V (Kv)
	Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
CMM250A	¼	8	1¼	32	$1^{11}/_{32}$	35	1	25	1	25	$^{7}/_{16}$	11	$2^{5}/_{32}$	29	$1^{19}/_{32}$	40	.7 (0.60)
CMM250G					2	51			-	-			$2^{3}/_{8}$	60	$1^{13}/_{16}$	46	.5 (0.43)
CFF250A					$1^{13}/_{32}$	36			1	25			$2^{5}/_{32}$	55	$1^{19}/_{32}$	40	.7 (0.60)
CFF250G					2	51			-	-			$2^{3}/_{8}$	60	$1^{13}/_{16}$	46	.5 (0.43)

100 RegO Dr. Elon, NC 27244 USA www.regoproducts.com

Strainer
STR002P

Application

The STR002P strainers have been designed to retain debris and any other pollution that could be in the lines, and could affect the performance of regulators and other devices. The STR002P use a Monel filter material. Designed for the handling of cryogenic liquids through bulk tanks, trucks, trailers, ISO-containers and piping configurations.

REGO 10 YEAR WARRANTY

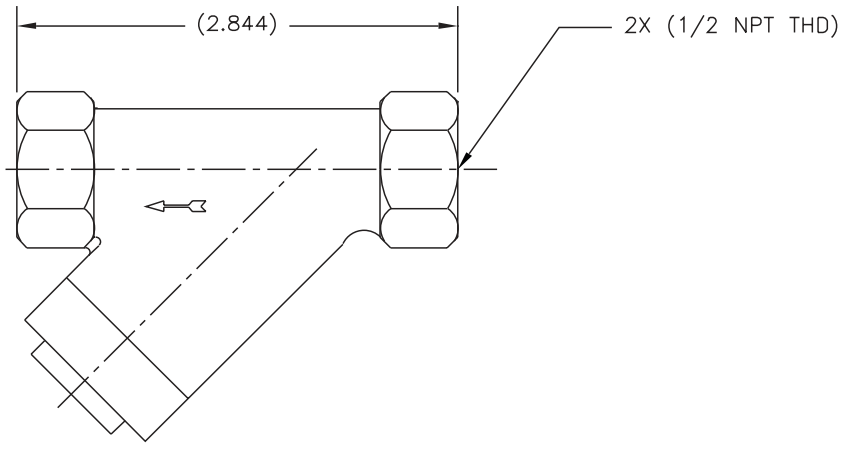
Features

- Temperature range: -320°F to 165°F. (-196°C to 74°C)
- Maximum working pressure: 600 psig (41,37 barg)
- Connections: FNPT
- Sizes: ½" (13 mm)
- Service: Liquefied & Vaporized Atmospheric Gases and LNG for Trailers, Bulk Tanks, Iso-Containers and Piping Configurations
- Cleaned for Liquid Oxygen Service per CGA G-4.1
- 100% Factory tested

STR000002P

Materials

Body ..... Brass
Cap ..... Brass
Filter Material ..... 100 Mesh Monel



Ordering Information

Part Number	Inlet		Outlet		A	
	Inches	DN	Inches	DN	Inches	mm
STR2P	½"	15	½	15	2⁴/₅"	71

Brass Pipe & Pipe Nipples

Heavy-duty, yellow brass pipe and pipe nipples are designed with a high quality, seamless thick wall construction. They are suitable for use in most industrial piping applications.

ASTM B135 Alloy 330
½" I.D. pipe, O.D. is 0.840".
¾" I.D. pipe, O.D. is 1.050".

Fig. 1
PIPE

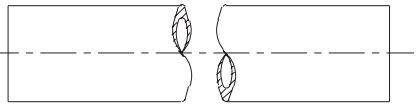
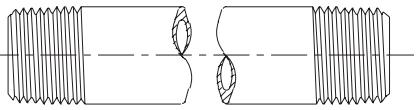


Fig.2
NIPPLE



REGO 10 YEAR WARRANTY

Ordering Information

Part Number	Figure	Inside Diameter		Inlet / Outlet Connections (M.NPT)		Length		Maximum Operating Pressure*
		Inches	mm	Inches	mm	Inches	mm	
TNE1050-14400	1	½"	13	Not Available	-	12 Feet	3657	3600 psig (248.2 barg)
TNE1075-14400		¾"	19					
1025-15	2	¼"	6	¼"	6	1.44"	37	
1050-10		½"	13	½"	13	1.13"	29	
1050-15						1.5"	38	
1050-20						2"	51	
1050-25						2.5"	63	
1050-40						4"	102	
1050-60						6"	152	
1050-80						8"	203	
1075-20		¾"	19	¾"	19	2"	51	
1075-30						3"	76	
1075-40						4"	102	
1075-50						5"	127	
1075-60						6"	152	

Brass Elbows

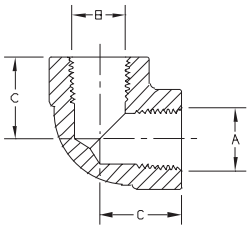


Fig. 1

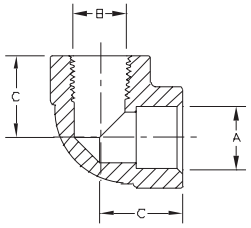


Fig. 2

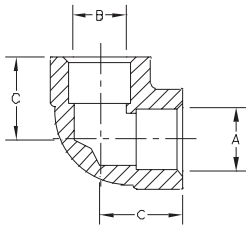


Fig. 3

REGO 10 YEAR WARRANTY

Ordering Information

Part Number	Figure	A (Female)		B (Female)		C (Ref.)		Working Pressure
		Inches	mm	Inches	mm	Inches	mm	
1228-1	1	½" NPT	13	½" NPT	13	1⅛"	28	3750 psig (258.7 barg)
HP1228-1						1½"	38	4500 psig (310.5 barg)
1043		¾" NPT	19	¾" NPT	19			
1228-2	2	½" NPT	13	.843-.847	21-22	1⅛"	28	3750 psig (258.7 barg)
HP1228-2						1½"	38	4500 psig (310.5 barg)
2223-2		¾" NPT	19	1.053-1.057	27			
1228-4	3	.843-.847	21-22	.843-.847	21-22	1⅛"	28	3750 psig (258.7 barg)
HP1228-4						1½"	38	6000 psig (414 barg)
2233-6		1.053-1.057	27	1.053-1.057	27			4500 psig (310.5 barg)

*Safety factor = 4:1

Brass Tees

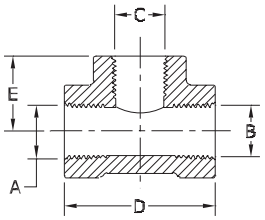


Fig. 1

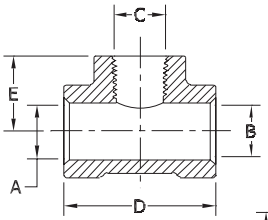


Fig. 4

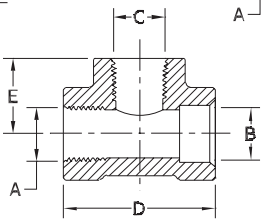


Fig. 2

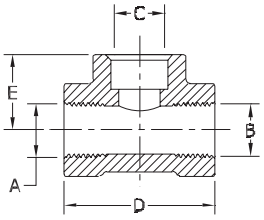


Fig. 5

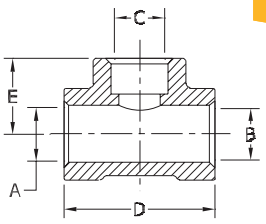


Fig. 3

REGO 10 YEAR WARRANTY

Ordering Information

Part Number	Figure	A (Female)		B (Female)		C (Female)		D (Ref.)		E (Ref)		Working Pressure psig*
		Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
1227-1	1	½" NPT	13	½" NPT	13	½" NPT	13	2¼"	57	1⅛"	29	3750 psig (258.7 barg)
HP1227-1								3"	76	1½"	38	4500 psig (310.5 barg)
1042-20		¾" NPT	19	¾" NPT	19							
1042						¾" NPT	19					
1227-3	2	½" NPT	13	.843-.847	21-22	½" NPT	13	2¼"	57	1⅛"	29	3750 psig (258.7 barg)
HP1227-3								3"	76	1½"	38	4500 psig (310.5 barg)
4608-5		¾" NPT	19	1.053-1.057	27	¾" NPT	19					
1227-28	3	.843-.847	21-22	.843-.847	21-22	.843-.847	21-22	2¼"	57	1⅛"	29	3750 psig (258.7 barg)
HP1227-28								3"	76	1½"	38	4500 psig (310.5 barg)
2118-2		1.053-1.057	27	1.053-1.057	27	1.053-1.057	27					
1227-9	4	.843-.847	21-22	.843-.847	21-22	½" NPT	13	2¼"	57	1⅛"	29	3750 psig (258.7 barg)
HP1227-9								3"	76	1½"	38	4500 psig (310.5 barg)
2223-3		1.053-1.057	27	1.053-1.057	27	¾" NPT	19					
HP1227-5	5	½" NPT	13	½" NPT	13	.843-.847						

*Safety factor = 4:1

Brass Crosses

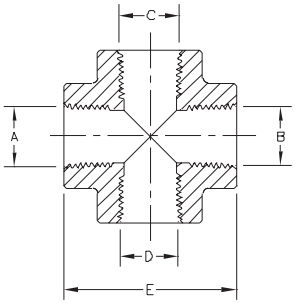


Fig. 1

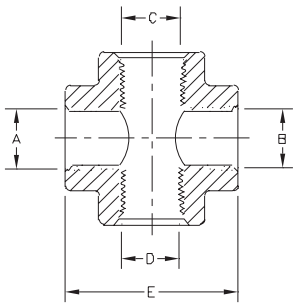


Fig. 2

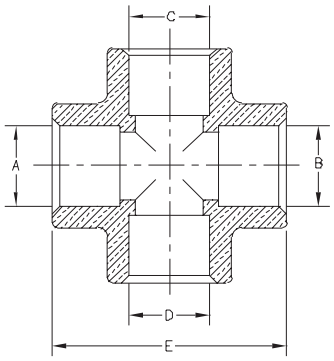


Fig. 3

REGO 10 YEAR WARRANTY

Ordering Information

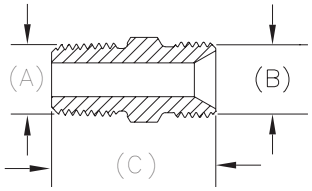
Part Number	Figure	A (Female)		B (Female)		C (Female)		D (Female)		E (Ref.)		Working Pressure*
		Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
1225-1	1	½ "NPT	13	½ "NPT	13	½ "NPT	13	½ "NPT	13	2¼"	57	3750 psig (258.7 barg)
HP1225-1										3"	76	4500 psig (310.5 barg)
1045		¾ "NPT	19	¾ "NPT	19	¾ "NPT	19	¾ "NPT	19			
1225-3	2	.843-.847	21-22	.843-.847	21-22	½ "NPT	13	½ "NPT	13	2¼"	57	3750 psig (258.7 barg)
HP1225-3										3"	76	4500 psig (310.5 barg)
2222-2		1.053-1.057	27	1.053-1.057	27	¾ "NPT	19	¾ "NPT	19			
HP1225-4	3	.843-.847	21-22	.843-.847	21-22	.843-.847	21-22	.843-.847	21-22			
2222-4		1.053-1.057	27	1.053-1.057	27	1.053-1.057		1.053-1.057	27			

*Safety factor = 4:1

Brass Adapters Male x Male

Ordering Information

Part Number	A (Male)	B (Male)		C (Ref.)		Maximum Operating Pressure
		Inches	mm	Inches	mm	
1300	¼" NPT	9/16" - 18 NF-LH	14-457	1 1/4"	32	3000 psig (206 barg)
2233-4HAL	½" NPT	1" - 11½ NPS-LH	25-292	2 3/8"	60	
2233-4HA						
2233-4HL	¾" NPT			2 9/16"	65	
2233-4H						



REGO 10 YEAR WARRANTY

Brass Adapters Female x Female

Ordering Information

Part Number	Figure	A Female)	B Female)	C (Ref.)		Maximum Operating Pressure
				Inches	mm	
1125-15	1	½" NPT	½" NPT	1 5/8"	46	3000 psig (206 barg)
1044		¾" NPT	¾" NPT	2"	51	

Part Number	Figure	A (Female)		B (Female)		C (Ref.)		Maximum Operating Pressure
		Inches	mm	Inches	mm	Inches	mm	
1125-16	2	.843-.847	21-22	.843-.847	21-22	1 5/8"	46	3000 psig (206 barg)
1044-1		1.053-1.057	27	1.053-1.057	27	2"	51	

REGO 10 YEAR WARRANTY

Figure 1

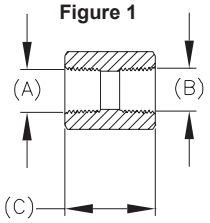
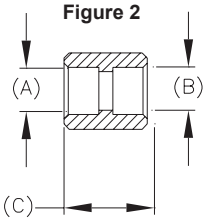


Figure 2



Brass Adapters Male x Female

Ordering Information

Part Number	Figure	A (Male)	B (Female)	C (Ref.)		Maximum Operating Pressure
				Inches	mm	
489-10	1	½" NPT	¼" NPT	1¼"	38	3000 psig (206 barg)
1252		¾" NPT	½" NPT	1 19/64"	33	
1252A						
2165-3	2	1"-11½NPS-RH	¾" NPT	1 27/32"	47	
2165-3B			.843-.847	1 3/16"	30	
2165-3A			1.053-1.057	1 27/32"	47	

REGO 10 YEAR WARRANTY

Figure 1

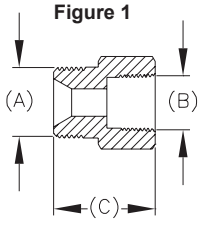
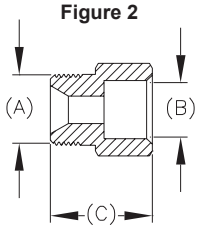


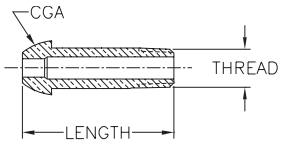
Figure 2



CGA Brass Tailpieces

Ordering Information

Part Number	CGA Connection	Thread of Bore for Tubing	Length (Approx.)	Maximum Operating Pressure
2603-2U	510, 580, 590	¼" NPT	1 3/32"	3000 psig (206 barg)



REGO 10 YEAR WARRANTY

Miscellaneous Brass Tailpiece

Ordering Information

Part Number	For Use with Nut (RH or LH)		Figure	Thread of Bore for Tubing		Length (Approx.)		Maximum Operating Pressure
	Inches	mm		Inches	mm	Inches	mm	
2233-3A	1" - 11½ NPS	25-292	1	½" NPT	13	3 7/16"	87	3000 psig (206 barg)
2670-35			2	.312 I.D.	8	2 7/16"	62	

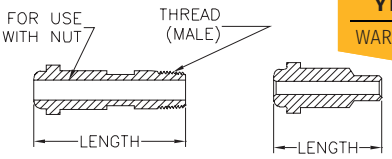


Fig 1 THREADED

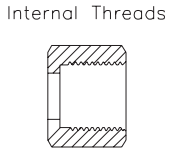
Fig 2 SWEAT END

REGO 10 YEAR WARRANTY

Brass Union Connection Nuts

Ordering Information

Part Number	Figure	Thread Connection		Wrench Flats		Maximum Operating Pressure
		Inches	mm	Inches	mm	
1302-1	2	9/16" - 18-LH	17-457	11/16"	17	3000 psig (206 barg)
1271-1		⅞" - 14-RH	22-356	1⅛"	29	
1371-1		⅞" - 14-LH	22-356			
2223-6		1" - 11½ NPS-RH	25-292	1¾"	44	
2223-6A		1" - 11½ NPS-LH	25-292			



REGO 10 YEAR WARRANTY

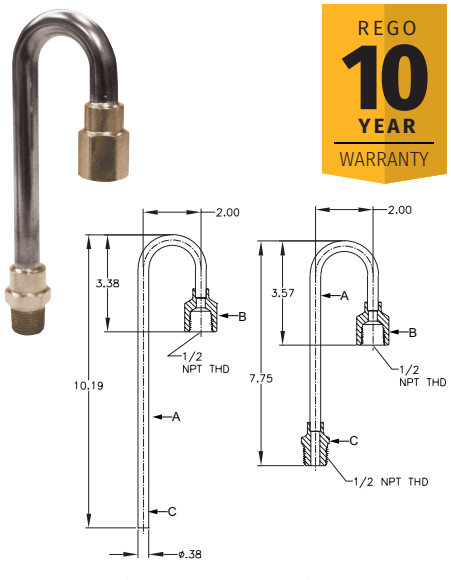
Candy Cane Riser Tubes and Assemblies For Piping-Away PRV9400, SS9400, PRV19400 & PRV29400 Series Relief Valves from Cryogenic Piping.

Materials

Tubing..... Stainless Steel
Fitting: .....Brass

Ordering Information

Part Number	Tubing Material	Fitting Material	"A" PRV Connection		"B" Tubing OD		"C" Inlet Connection		Maximum Operating Pressure
			Inches	mm	Inches	mm	Inches	mm	
1332SS	Stainless Steel	Brass	¼" FNPT	6	.375"	9	Tubing 0.375"	9	600 psig (41.37 barg)
1334SS			½" FNPT	13			½" MNPT	13	
1344SS									
1344SSA					.625"	16			



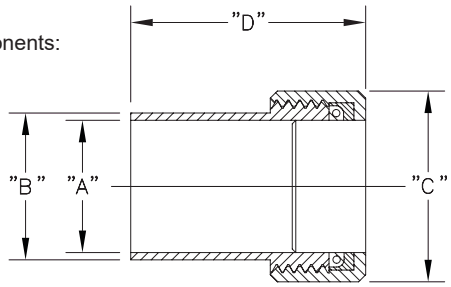
REGO 10 YEAR WARRANTY

Quikonnect
Vacuum Couplings

Features

- An extensive range of tube sizes available. Most sizes nest, and can be used as reducers in combination with one another.
- May be used for vacuum down to $1x10^{-8}$ Microns
- Viton O-rings are standard
- "Quikonnect" vacuum couplings have four basic components:
  * Knurled Nut
  * Retainer Ring
  * O-ring
  * Sleeve

REGO 10 YEAR WARRANTY



Ordering Information

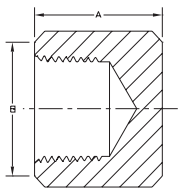
Quikonnect Vacuum Couplings

Brass Machine Finish	"A"		"B"		"C"		"D"		Tube OD Size	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
B-006-M	0.072"	2	0.375"	10	5/8"	16	1 1/32"	26	1/16"	2
B-012-M	0.135"	3							1/8"	3
B-018-M	0.197"	5							3/16"	5
B-025-M	0.260"	7							1/4"	6
B-031-M	0.322"	8	0.500"	13	13/16"	16	1 1/4"	32	5/16"	8
B-038-M	0.385"	10							3/8"	9
B-050-M	0.510"	13	0.625"	16	7/8"	22			1/2"	13
B-062-M	0.635"	16	0.750"	19	1 1/8"	28	1 3/8"	35	5/8"	16
B-075-M	0.760"	19	0.875"	22	1 1/4"	32	1 1/2"	38	3/4"	19
B-087-M	0.885"	22	1.000"	25	1 7/16"	36	1 23/32"	44	7/8"	22
B-100-M	1.010"	26	1.125"	28	1 1/2"	38	1 13/16"	46	1"	25
B-112-M	1.135"	29	1.250"	32	1 5/8"	41	1 15/16"	49	1 1/8"	28
B-125-M	1.260"	32	1.500"	38	2"	51	1 3/16"	30	1 1/4"	32
B-138-M	1.385"	35	1.625"	41					1 3/8"	35
B-150-M	1.150"	29	1.750"	44	2 1/4"	57			1 1/2"	38
B-162-M	1.635"	41	1.875"	48	2 3/8"	60	2 1/4"	57	1 5/8"	41
B-200-M	2.010"	51	2.250"	57	2 3/4"	70	2.70"	69	2"	51

Brass Pipe Caps

Application

For capping cryogenic tank piping or gas pipelines.



REGO 10 YEAR WARRANTY

Features

- Machined from brass
- For 600 psig (41.37 barg) maximum working pressure service.
- Part number stamped on cap
- Cleaned for oxygen per CGA G-4.1

Ordering Information

Part Number	Thread Connections		Dim. A		Dim. B		Dim. C	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
CAP750	3/4" Female NPT	19	1.250"	32	1.313"	33	1.313"	33
CAP1000	1" Female NPT	25	1,500"	38	1.750"	44	1.750"	44
CAP1500	1 1/2" Female NPT	38	1.750"	44	2.375"	60	2.375"	60
CAP2000	2" Female NPT	51	2.000	51	3.250"	82	3.250"	82

Repair Kits

T9450 Series, T9460 Series, ES8450 Series, TES8450 Series, BK9450 Series and BK9470 Series

Kit Number	Part Number	Kit Contents
ES8450R	T9450 Series and T9460 Series	(1) Stem assembly (4"), (1) packing, (1) bonnet, (1) handwheel.
BK9450-80	9450 Series, 9460 Series	(1) Stem assembly ,(1) Spring, (1) Jam Ring,(1)Packing V-ring,(1) Packing Gland,(1) O-ring, Washer,(1) Locknut, (1) Gasket.
BK9450R *	9450 Series, 9460 Series	(1) Extended Bonnet Assembly Kit, (1) Spring load packing for conversion of extended stem valves and topworks replacement
BKA8400R	BKA8412SE	(1) Stem assembly,(1) handwheel, (1) seat assembly Converts SE Series to New Style S Series
T9464-80	T9450 Series, T9460 Series,9450 Series, 9460 Series	(1) Complete valve trim assembly including Silver handwheel
T9464-80B		(1) Complete valve trim assembly including Blue handwheel
T9464-80G		(1) Complete valve trim assembly including Green handwheel
T9464-80R		(1) Complete valve trim assembly including Red handwheel
BK-9450-KIT**	ES8450 Series,ES9450 Series,BK9450 Series	(1) Extended Bonnet Assembly Kit,(1) Spring load packing for conversion of extended stem valves and topworks replacement

* Changes to a 6.5" (165mm) stem.
**Retrofits ES8450 and ES9450 to a 6.5" (165mm) stem and a repair kit for the BK9450 Series.

RG Series, CBH & CBC Series and LCR Series

Kit Number	Part Number	Kit Contents
RG-80*	RG75, 125, CBC125 & CBH125, LCR	Backcap gasket, diaphragm assembly, diaphragm gasket, seat assembly.
RG-80A*	RG300	
RG-81**	RG18-175 Series A & AG, CBC125A & CBH125A, LCR200A Series. LCR100AG Series	
RG-81A**	RG200-325 Series A & AG, CBC300A & CBH300A, LCR350A Series, LCR200AG & 250AG Series	
RG-82	RG18-175 Series A & AG, CBC125A & CBH125A, LCR200A Series. LCR100 AG Series	Diaphragm assembly, gasket.
1784NG-80	1784NG Series	(1) Diaphragm assembly,(1) seat assembly,(1) gasket.

*Good for valves manufactured before Fall 2010
**Good for valves manufactured after Fall 2010

PB Series

Kit Number	Part Number	Kit Contents
PB504-80R*	PB504 Series	(1) Poppet O-ring, (1) Seat Retainer, (1) Seat Disc,(1) Stem Seat,(1) Back O-ring, (1) Backcap Seal.
PB504-80RA**		(1) Poppet O-Ring, (1) Poppet/Seat (PTFE), (1) Stem, (1) Backcap Gasket
PB504-81R		(1) Diaphragm, (1) gasket

*Good for valves stamped with date code 11C20 or earlier
**Good for valves stamped with date code 11D20 or later

CB504 Series

Kit Number	Part Number	Kit Contents
CB504	CB504-B	Seat Retainer,Seat Disc, Stem, Ball, Cylindrical Spring, Check Retainer, Spring Seal, Thrusr Button, Diaphragm gasket, Diaphragm, Gasket.

CBH502 & CBC502 Series

Kit Number	Part Number	Kit Contents
CB502-80	CBC502-22 to CBC502-175, CBH502-22 to CBH502-175	Diaphragm assembly, diaphragm gasket, Backcap gasket,poppet seat, seat pin.
CB502-80A	CBC502-180 to CBC502-350, CBH502-180 to CBH502-350	

Repair Kits

ECL502 Series

Kit Number	Part Number	Kit Contents
ECL502-80	ECL502-22 to ECL502-175.	Diaphragms, Diaphragm liner, Spring guide, ball seat.
ECL502-80A	ECL502-180 to ECL502-350.	
ECL-80	ECL22, ECL70, ECL100, ECL140	Diaphragm assembly, diaphragm gasket, poppet, retaining ring, spring, washer.
ECL-80A	ECL325	

ECL602 Series

Kit Number	Part Number	Kit Contents
ECL602-80	ECL602-015 to 175	(3) Diaphragms, (1) O-ring, (1) Guide spring, (1) ball
ECL602-80A	ECL602-176 to 550	(4) Diaphragms, (1) O-ring, (1) Guide spring, (1) ball

ECL603/604 Series

Kit Number	Part Number	Kit Contents
ECL604-80A	ECL604-015 to 025, ECL603-015 to 025	(1) Diaphragm, (1) O-ring PTFE, (1) spring cyl, (1) ball, (1) guide spring, (1) O-ring SPL
ECL604-80B	ECL604-026 to 045, ECL603-026 to 045	(2) Diaphragm, (1) O-ring PTFE, (1) spring cyl, (1) ball, (1) guide spring, (1) O-ring SPL
ECL604-80C	ECL604-046 to 125, ECL603-046 to 125	(3) Diaphragm, (1) O-ring PTFE, (1) spring cyl, (1) ball, (1) guide spring, (1) O-ring SPL
ECL604-80D	ECL604-126 to 255, ECL603-126 to 255	(4) Diaphragm, (1) O-ring PTFE, (1) spring cyl, (1) ball, (1) guide spring, (1) O-ring SPL
ECL604-80E	ECL604-256 to 375, ECL603-256 to 375	(3) Diaphragm, (1) O-ring PTFE, (1) spring cyl, (1) ball, (1) guide spring, (1) O-ring SPL
ECL604-80F	ECL604-376 to 650, ECL603-376 to 650	(4) Diaphragm, (1) O-ring PTFE, (1) spring cyl, (1) ball, (1) guide spring, (1) O-ring SPL
ECL604-82A	ECL604-015 to 025, ECL603-015 to 025	(1) Diaphragm, (1) O-ring PTFE
ECL604-82B	ECL604-026 to 045, ECL603-026 to 045	(2) Diaphragm, (1) O-ring PTFE
ECL604-82C	ECL604-046 to 125, ECL603-046 to 125	(3) Diaphragm, (1) O-ring PTFE
ECL604-82D	ECL604-126 to 255, ECL603-126 to 255	(4) Diaphragm, (1) O-ring PTFE
ECL604-82E	ECL604-256 to 375, ECL603-256 to 375	(3) Diaphragm, (1) O-ring PTFE
ECL604-82F	ECL604-376 to 650, ECL603-376 to 650	(4) Diaphragm, (1) O-ring PTFE
ECL604-T02	ECL603 and ECL604 all settings	Bonnet Removal Tool

BB Series, BBS Series, SKB Series and Old SK Series

Kit Number	Part Number	Kit Contents
SK9404-81*	BB9402, BB9404,SKB9402, SKB9404,SK9402,SK9404	(1) Gasket, (1) Spring, (1) Washer, (1) Ring V Male. (3) Ring V female,(1) O'ring.
SK9408-81*	BB9406, BB9408,SKB9406, SKB9408,SK9406,SK9408	
SK9412-81*	BB9412,SKB9412,SK9412	
SK9416-81*	BB9416,SKB9416,SK9416	
SK9404-82*	BB9402, BB9404,SKB9402, SKB9404,SK9402,SK9404,BBS9402, BBS9404.	(1) Gasket and (1) Seat Disc Assembly.
SK9408-82*	BB9406, BB9408,SKB9406, SKB9408,SK9406,SK9408, BBS9406, BBS9408.	
SK9412-82*	BB9412,SKB9412,SK9412,BBS9412.	
BB9412-82A***	BB9412,SKB9412,BBS9412.	
SK9416-82*	BB9416,SKB9416,SK9416,BBS9416.	
SK9404-83*	BB9402, BB9404,SKB9402, SKB9404,SK9402,SK9404,BBS9402, BBS9404.	(1) Gasket.
SK9408-83*	BB9406, BB9408,SKB9406, SKB9408,SK9406,SK9408, BBS9406, BBS9408.	
SK9412-83*	BB9412,SKB9412,SK9412,BBS9412.	
BB9412-83A***	BB9412,SKB9412,BBS9412.	
SK9416-83*	BB9416,SKB9416,SK9416,BBS9416.	
BB9404-85	BB9402, BB9404,SKB9402, SKB9404.	(1) Gasket, (1)Stem,(1) Bonnet & tube Assy, (1) Spring, (1) Washer, (1)Ring V Male. (3) Ring V female,(1) O-ring, (1) Nut, Bonnet, (4) Screw, (1) Handwheel, (1) Nut, Hex, and (1) Washer.
BB9408-85	BB9406, BB9408,SKB9406, SKB9408.	
BB9412-85**	BB9412,SKB9412.	
BB9412-85A***	BB9412,SKB9412.	
BB9416-85	BB9416,SKB9416.	
BB9412-81A***	BB9412,SKB9412.	(1)Gland Follower, (1)Bonnet Bearing, (1)Packing Adapter,(1) Bonnet Packing, (1)Packing Separator, (1) Gasket.
BBS9404-81	BBS9402,BBS9404, SKB9402BWS, SKB9402SWS, SKB9404BWS, SKB9404SWS.	
BBS9408-81	BBS9406,BBS9408, SKB9406BWS, SKB9406SWS, SKB9408BWS, SKB9408SWS.	
BBS9412-81**	BBS9412, SKB9412BWS, SKB9412SWS.	
BBS9412-81A***	BBS9412, SKB9412BWS, SKB9412SWS.	
BBS9404-81	BBS9416,SKB9416BWS, SKB9416SWS	
BBS9404-85	BBS9402,BBS9404, SKB9402BWS, SKB9402SWS, SKB9404BWS, SKB9404SWS.	(4) Screw, (1) Kit Upper Assembly, (10 Handwheel, (1) Nut lock, (1) Washer, (1)Gland Follower, (1)Bonnet Bearing, (1)Packing Adapter,(1) Bonnet Packing, (1) Packing Separator, (1) Gasket.
BBS9408-85	BBS9406,BBS9408, SKB9406BWS, SKB9406SWS, SKB9408BWS, SKB9408SWS.	
BBS9412-85**	BBS9412, SKB9412BWS, SKB9412SWS.	
BBS9412-85A***	BBS9412, SKB9412BWS, SKB9412SWS.	
BBS9416-85	BBS9416,SKB9416BWS, SKB9416SWS	

*Good for SK Series valves manufactured before 2017.
** Good for Valves produced on or before 05C19.
*** Good for Valves produced on or after 05D19.

BK Series

Kit Number	Part Number	Kit Contents
BK8400-80J	BK8404,BK8406,BK8408,BKY8408,BK9404,BK9406,BK9408	(1)Jam ring,(1) O-ring, (3)Pressure seal rings , (1)Spring, (1) Tape, (1) Washer, (1) Gasket.
BKA8412-80J	BK8408,BK9408,BKA8408,BKA9408.	
BK9400-80J*	BK9410, BK9412.	
BK9416-80JS	BK9416.	
BK8400-80AJ	BK8404,BK8406,BK9404,BK9406.	(1) Seat Disc Assembly,(1) Gasket.
BK9400-80AJ	BK9410, BK9412.	
BKY8408-80AJ	BKY8408.	
BK8400-80BJ	BK8408,BK9408,BKA8408,BKA9408.	
BKA8412-80JA*	BKA8412, BKA8408, BKA9408.	
BK9416-80AJ	BK9416.	
BK8404-Kit	BK8404.	(1)Stem, (1) Bonnet & tube Assembly, (1) Seal housing, (1) Spring, (1) Packing Gland, (1) Washer, (1) Jam Ring, (3)Pressure seal rings, (1) O-ring, (1) Seat Assembly, (1) Locknut, (1) Washer, (1) Handwheel, (1) Gasket.

*Only for valves produced after 1991.

222 Series and 202 Series

Kit Number	Part Number	Kit Contents
B-222X-4-81	B-222X-2, B-222X-4, B-00202X-4.	(1) Handwheel nut, Bonnet bearing, (1) Gland Follower, (5) Bonnet Packing, (4) Packing Separator, (1) Bonnet packing adapter.
B-222X-6-81	B-222X-6	
B-222X-8-81	B-222X-8	
B-222X-12-81	B-222X-12, B-222XBS-12, SB-222X-12SW	
B-222X-16-81	B-222X-16	
B-222X-24-81	B-222X-24, GB-0222WE-24PC.	
B-222X-4-82	B-222X-2, B-222X-4, B-00202X-4.	(1) Seat Disc Assembly,(1) Gasket.
B-222X-6-82	B-222X-6	
B-222X-8-82	B-222X-8	
B-222X-12-82	B-222X-12, B-222XBS-12, SB-222X-12SW	
B-222X-16-82	B-222X-16	
B-222X-24-82	B-222X-24, GB-0222WE-24PC.	
B-222X-4-83	B-222X-2, B-222X-4, B-00202X-4.	(1) Gasket.
B-222X-6-83	B-222X-6	
B-222X-8-83	B-222X-8	
B-222X-12-83	B-222X-12, B-222XBS-12, SB-222X-12SW	
B-222X-16-83	B-222X-16	
B-222X-24-83	B-222X-24, GB-0222WE-24PC.	
B-222X-4KIT	B-222X-2, B-222X-4.	(1)Stem, (1) Bonnet & tube Assembly, (1) Handwheel nut, Bonnet bearing, (1) Gland Follower, (5) Bonnet Packing, (4) Packing Separator, (1) Bonnet packing adapter, (1) Seat Assembly, (1) Locknut, (1) Washer, (1) Handwheel, (1) Gasket.
B-222X-6KIT	B-222X-6	
B-222X-8KIT	B-222X-8	
B-222X-12KIT	B-222X-12, B-222XBS-12, SB-222X-12SW	
B-222X-16KIT	B-222X-16	
B-222X-24KIT	B-222X-24, GB-0222WE-24PC.	

226LL Series

Kit Number	Part Number	Kit Contents
B-226LL-4-81	B-226LL-2, B-226LL-3, B-226LL-4.	(1) Handwheel nut, (1) Live-Load Spring, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (1) Bonnet Packing, (1) Bonnet Packing Adapter.
B-226LL-8-81	B-226LL-6, B-226LL-8, PB-226LL-8T6Y1.	
B-226LL-4-82	B-226LL-2, B-226LL-3, B-226LL-4.	(1) Seat Disc Assembly,(1) Gasket.
B-226LL-8-82	B-226LL-6, B-226LL-8, PB-226LL-8T6Y1.	
B-226LL-4-83	B-226LL-2, B-226LL-3, B-226LL-4.	(1) Gasket.
B-226LL-8-83	B-226LL-6, B-226LL-8, PB-226LL-8T6Y1.	
B-226LL-4KIT	B-226LL-2, B-226LL-3, B-226LL-4.	(1) Handwheel nut, (1) Handwheel, (1)Stem, (1) Bonnet nut, (1)Bonnet & tube ASM, (1) Bonnet ring, (1)Seat Assembly, (1) Live-Load Spring, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (1) Bonnet Packing, (1) Bonnet Packing Adapter, (1) Bonnet gasket.
B-226LL-8KIT	B-226LL-6, B-226LL-8, PB-226LL-8T6Y1.	

226ULL Series

Kit Number	Part Number	Kit Contents
B-226ULL-12-81	B-206ULL-12, B-226ULL-12.	(1) Handwheel nut, (1) Live-Load Spring, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (1) Bonnet Packing, (1) Bonnet Packing Adapter.
B-226ULL-16-81	B-206ULL-16, B-226ULL-16.	
B-226ULL-12-82	B-206ULL-12, B-226ULL-12.	(1) Seat Disc Assembly,(1) Gasket.
B-226ULL-16-82	B-206ULL-16, B-226ULL-16.	
B-226ULL-12-83	B-206ULL-12, B-226ULL-12.	(1) Gasket.
B-226ULL-16-83	B-206ULL-16, B-226ULL-16.	
B-226ULL-12KIT	B-226ULL-12.	(1) Handwheel nut, (1) Handwheel, (1)Stem, (1) Bonnet nut, (1)Bonnet & tube ASM, (1) Bonnet ring, (1)Seat Assembly, (1) Live-Load Spring, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (1) Bonnet Packing, (1) Bonnet Packing Adapter, (1) Bonnet gasket.
B-226ULL-16KIT	B-226ULL-16.	

Repair Kits

226XGF Series

Kit Number	Part Number	Kit Contents
VB-226XGF-4-81	VB-226XGF-4	(1) Handwheel nut, (1)Bonnet bearing, (1) Packing Follower, (1) Grafoil Packing, (1) Packing adapter.
VB-226XGF-6-81	VB-226XGF-6	
VB-226XGF-8-81	VB-226XGF-8	
VB-226XGF-12-81	VB-226XGF-12	
VB-226XGF-4-82	VB-226XGF-4	(1) Seat Disc Assembly,(1) Grafoil Gasket.
VB-226XGF-6-82	VB-226XGF-6	
VB-226XGF-8-82	VB-226XGF-8	
VB-226XGF-12-82	VB-226XGF-12	
VB-226XGF-4-83	VB-226XGF-4	(1) Grafoil Gasket.
VB-226XGF-6-83	VB-226XGF-6	
VB-226XGF-8-83	VB-226XGF-8	
VB-226XGF-12-83	VB-226XGF-12	
VB-226XGF-4KIT	VB-226XGF-4	(1) Handwheel nut, (1) Handwheel, (1)Stem, (1) Bonnet nut, (1)Bonnet & tube ASM, (1) Bonnet ring, (1)Seat Assembly, Bonnet Packing, (1) Bonnet Packing Adapter, (1) Bonnet gasket,(1)Bonnet bearing, (1) Packing Follower, (1) Grafoil Packing, (1) Packing adapter.
VB-226XGF-6KIT	VB-226XGF-6	
VB-226XGF-8KIT	VB-226XGF-8	
VB-226XGF-12KIT	VB-226XGF-12	

226BLL Series

Kit Number	Part Number	Kit Contents
B-226BLL-12-81	B-206BLL-12, B-226BLA-12, B-226BLL-12.	(1) Handwheel nut, (1) Live-Load Spring, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (1) Bonnet Packing, (1) Bonnet Packing Adapter, (1) Packing separator.
B-226BLL-16-81	B-226BLL-16.	
B-226BLL-12-82	B-206BLL-12, B-226BLA-12, B-226BLL-12.	(1) Seat Disc Assembly,(1) Gasket.
B-226BLL-16-82	B-226BLL-16.	
B-226BLL-12-83	B-206BLL-12, B-226BLA-12, B-226BLL-12.	(1) Gasket.
B-226BLL-16-83	B-226BLL-16.	
B-226BLL-12KIT	B-206BLL-12, B-226BLA-12, B-226BLL-12.	(1) Handwheel nut, (1) Handwheel, (1)Stem, (1) Bonnet nut, (1)Bonnet & tube ASM, (1) Bonnet ring, (1)Seat Assembly, (1) Live-Load Spring, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (1) Bonnet Packing, (1) Bonnet Packing Adapter, (1) Bonnet gasket.
B-226BLL-16KIT	B-226BLL-16.	

202 Series

Kit Number	Part Number	Kit Contents
B-202X-8-81	B-202X-8	(1) Handwheel nut, (1) Bonnet Bearing, (1) Gland Follower, (5) Bonnet Packing, (1) Bonnet Packing Adapter, (1) Packing separator.
B-202X-12-81	B-202X-12	
B-202X-16-81	B-202X-16	
B-202X-8-82	B-202X-8	(1) Seat Disc Assembly,(1) Gasket.
B-202X-12-82	B-202X-12	
B-202X-16-82	B-202X-16	
B-202X-8-83	B-202X-8	(1) Gasket.
B-202X-12-83	B-202X-12	
B-202X-16-83	B-202X-16	
B-202X-4KIT	B-202X-4	(1) Handwheel nut, (1) Handwheel, (1)Stem & Seat ASM, (1) Bonnet nut, (1)Bonnet , (1) Bonnet ring, (1)Seat Assembly, (1) Live-Load Spring, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (5) Bonnet Packing, (1) Bonnet Packing Adapter, (1) Bonnet gasket, (1) Packing separator.
B-202X-8KIT	B-202X-8	
B-202X-12KIT	B-202X-12	
B-202X-16KIT	B-202X-16	

206LL Series

Kit Number	Part Number	Kit Contents
B-206LL-4KIT	B-206LL-3, B-206LL-4.	(1) Handwheel nut, (1) Handwheel, (1)Stem , (1) Bonnet nut, (1)Bonnet , (1) Bonnet ring, (1)Seat Assembly, (1) Live-Load Spring, (1) Live-Load Washer, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (5) Bonnet Packing, (1) Bonnet Packing Adapter, (1) Bonnet gasket, (4) Packing separator.
B-206LL-8KIT	B-206LL-6, B-206LL-8.	

206ULL Series

Kit Number	Part Number	Kit Contents
B-206ULL-12KIT	B-206ULL-12	(1) Handwheel nut, (1) Handwheel, (1)Stem , (1) Bonnet nut, (1)Bonnet , (1) Bonnet ring, (1)Seat Assembly, (1) Live-Load Spring, (1) Live-Load Washer, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (5) Bonnet Packing, (1) Bonnet Packing Adapter, (1) Bonnet gasket, (4) Packing separator.
B-206ULL-16KIT	B-206ULL-16	

206BLL Series

Kit Number	Part Number	Kit Contents
B-206BLL-12KIT	B-206BLL-12	(1) Handwheel nut, (1) Handwheel, (1)Stem , (1) Bonnet nut, (1)Bonnet , (1) Bonnet ring, (1)Seat Assembly, (1) Live-Load Spring, (1) Live-Load Washer, (1) Spring Washer, (1) Bonnet Bearing, (1) Gland Follower, (5) Bonnet Packing, (1) Bonnet Packing Adapter, (1) Bonnet gasket, (4) Packing separator.

206GF Series

Kit Number	Part Number	Kit Contents
VB-206GF-2-81	VB-206GF-2	(1) Handwheel nut, (1)Bonnet bearing, (1) Gland Follower, (1) Grafoil Packing, (1) Bonnet packing adapter.
VB-206GF-4-81	VB-206GF-4	
VB-206GF-6-81	VB-206GF-6	
VB-206GF-8-81	VB-206GF-8	
VB-206GF-12-81	VB-206GF-12	
VB-206GF-16-81	VB-206GF-16	
VB-206GF-2-82	VB-206GF-2	(1) Seat Disc Assembly,(1) Grafoil Gasket.
VB-206GF-4-82	VB-206GF-4	
VB-206GF-6-82	VB-206GF-6	
VB-206GF-8-82	VB-206GF-8	
VB-206GF-12-82	VB-206GF-12	
VB-206GF-16-82	VB-206GF-16	
VB-206GF-2-83	VB-206GF-2	(1) Grafoil Gasket.
VB-206GF-4-83	VB-202GF-3, VB-206GF-4	
VB-206GF-6-83	VB-206GF-6	
VB-206GF-8-83	VB-206GF-8	
VB-206GF-12-83	VB-206GF-12	
VB-206GF-16-83	VB-206GF-16	
B-206GF-02-85	VB-206GF-2	(1) Handwheel nut, (1) Handwheel, (1)Stem, (1) Bonnet nut, (1)Bonnet & tube ASM, (1) Bonnet ring, (1)Seat Assembly, Bonnet Packing, (1) Bonnet Packing Adapter, (1) Bonnet gasket,(1)Bonnet bearing, (1) Packing Follower, (1) Grafoil Packing, (1) Packing adapter.
B-206GF-04-85	VB-206GF-4	
B-206GF-06-85	VB-206GF-6	
B-206GF-08-85	VB-206GF-8	
B-206GF-12-85	VB-206GF-12	
B-206GF-16-85	VB-206GF-16	

SK Advantage Series

Kit Number	Part Number	Kit Contents
SKM9404-83	SKL9402,SKM9402, SKS9402,SKL9404,SKM9404 and SKS9404	(1) Gasket.
SKM9408-83	SKL9406,SKM9406, SKS9406,SKL9408,SKM9408, SKS9408 and SKA9408	
SKM9412-83	SKL9412, SKM9412, SKS9412 and SKA9412	
SKM9416-83	SKL9416 and SKM9416	
SKM9420-83	SKM9420BW, SKM9420SW, SKL9420BW, SKL9420SW	
SKM9424-83	SKL9424BW, SKL9424SW	
SKM9404-80AJ	SKL9402,SKM9402, SKS9402,SKL9404,SKM9404 and SKS9404	(1) Gasket and (1) Seat Disc Assembly.
SKM9408-80AJ	SKL9406,SKM9406, SKS9406,SKL9408,SKM9408, SKS9408 and SKA9408	
SKM9412-80AJ	SKL9412, SKM9412, SKS9412 and SKA9412	
SKM9416-80AJ	SKL9416 and SKM9416	
SKM9420-80AJ	SKM9420BW, SKM9420SW, SKL9420BW, SKL9420SW	(1) Seat Disc Assembly, (1) Gasket, (2) Set Screws, (1) Instruction Sheet
SKM9424-80AJ	SKL9424BW, SKL9424SW	
SKM9408-80J	SKL9402, SKM9402,SKS9402, SKL9404, SKM9404, SKS9404, SKL9406,SKM9406,SKS9406 SKL9408,SKM9408, SKS9408 and SKA9408	(2) Spring, Belleville, (1) Washer, Live-loading, (5) Packing, Bonnet, (4) Packing,separator, (1) Bearing, Bonnet, (1)Follower, Gland, (1) Packing, Adapter.
SKM9412-80J	SKL9412, SKM9412, SKS9412 and SKA9412	
SKM9416-80J	SKL9416 and SKM9416	
SKM9420-80J	SKM9420BW, SKM9420SW, SKL9420BW, SKL9420SW	(5) Bonnet packing, (4) Packing separator, (1) Packing adapter, (1) Plate washer. (1) Gland follower, (1) Spring Guide, (1) Spring, (2) Spring Retainers, (1) gasket, (1) Instruction Sheet
SKM9424-80J	SKL9424BW, SKL9424SW	
SKS9404-KIT	SKS9402 and SKS9404	(1) Gasket, (1) Stem, (1) Bonnet & tube Assy, (2) Spring, Belleville,(1) Washer, Live-loading, (5) Packing, Bonnet, (4)Packing, Separator, (1) Bearing, Bonnet, (1) Follower, Gland, (1) Nut, Stem, (1) Ring, Retaining, (1)Packing, Adapter, (1) Nut, Bonnet, (4) Screw, (1) Handwheel, (1) Nut, Hex, and (1) Washer.
SKS9408-KIT	SKS9406 and SKS9408	
SKS9412-KIT	SKS9412	
SKM9404-KIT	SKM9402 and SKM9404	(1) Gasket, (1) Stem, (1) Bonnet & tube Assy, (2) Spring, Belleville,(1) Washer, Live-loading, (5) Packing, Bonnet, (4)Packing, Separator, (1) Bearing, Bonnet, (1) Follower, Gland, (1) Nut, Stem, (1) Ring, Retaining, (1)Packing, Adapter, (1) Nut, Bonnet, (4) Screw, (1) Handwheel, (1) Nut, Hex, and (1) Washer.
SKM9408-KIT	SKM9406 and SKM9408	
SKM9412-KIT	SKM9412	
SKM9416-KIT	SKM9416	
SKM9420-KIT	SKL9420BW, SKL9420SW	(1) Complete topworks w/handwheel, (4) pre-greased-bonnet bolts, (1) gasket), (1) instruction sheet
SKL9404-KIT	SKL9402 and SKL9404	(1) Gasket, (1) Stem, (1) Bonnet & tube Assy, (2) Spring, Belleville,(1) Washer, Live-loading, (5) Packing, Bonnet, (4)Packing, Separator, (1) Bearing, Bonnet, (1) Follower, Gland, (1) Nut, Stem, (1) Ring, Retaining, (1)Packing, Adapter, (1) Nut, Bonnet, (4) Screw, (1) Handwheel, (1) Nut, Hex, and (1) Washer.
SKL9408-KIT	SKL9406, SKL9408 and SKA9408	
SKL9412-KIT	SKL9412 and SKA9412	
SKL9416-KIT	SKL9416	
SKL9420-KIT	SKL9420BW, SKL9420SW	(1) Complete topworks w/handwheel, (4) pre-greased-bonnet bolts, (1) gasket), (1) instruction sheet
SKL9424-KIT	SKL9424BW, SKL9424SW	

Kit Number	Part Number	Kit Contents
S-210-8-81	GS-210W-4, GS-210W-6 and GS-210W-8	(1) Packing adapter, (1) Chevron adapter, (1) Chevron set, (1) Gasket.
S-210-16-81	GS-210W-12 and GS-210W-16	
S-210-24-81	GS-210W-24	
S-210-32-81	GS-210W-32	
S-210WHZ-8-81	GS-210WHZ-4, GS-210WHZ-6 and GS-210WHZ-8	(1) Packing adapter, (1) Chevron adapter, (1) Grafoil Packing, (1) Gasket.
S-210WHZ-16-81	GS-210WHZ-12 and GS-210WHZ-16	
S-210-8-82	GS-210W-4, GS-210W-6 and GS-210W-8	(1) Seat/Seat Assembly, (1) Gasket.
S-210-16-82	GS-210W-12 and GS-210W-16	
S-210-24-82	GS-210W-24	
S-210-32-82	GS-210W-32	
S-210WHZ-8-82	GS-210WHZ-4, GS-210WHZ-6 and GS-210WHZ-8	(1) Seat/Seat Assembly, (1) Grafoil Gasket.
S-210WHZ-16-82	GS-210WHZ-12 and GS-210WHZ-16	
S-210-8-83	GS-210W-4, GS-210W-6 and GS-210W-8	(1) Bonnet Gasket.
S-210-16-83	GS-210W-12 and GS-210W-16	
S-210-24-83	GS-210W-24	
S-210-32-83	GS-210W-32	
S-210WHZ-8-83	GS-210WHZ-4, GS-210WHZ-6 and GS-210WHZ-8	(1) Bonnet Grafoil Gasket.
S-210WHZ-9-84	GS-210WHZ-4, GS-210WHZ-6 and GS-210WHZ-8	
S-210WHZ08-853	GS-210WHZ-4, GS-210WHZ-6 and GS-210WHZ-8	(1) Handwheel, (2) Packing Bolt, (2) Nut, (1) Stem & Seat Assembly, (4) Bonnet Bolt, (1)Bonnet & Yoke ASM, (1) Retaining ring, (1) Stem bearing, (1) Gland Flange, (1) Grafoil Packing Set, (1) Chevron adapter, (1) Packing adapter, (1) Gasket, (1) Jam nut, (1) Washer, (1) Grafoil Gasket.
S-210WHZ16-853	GS-210WHZ-12 and GS-210WHZ-16	

Repair Kits

231 Series

Kit Number	Part Number	Kit Contents
S-231-4-81	S-231-4	(1) Packing adapter, (1) Chevron adapter, (1) Grafoil packing, (1) Grafoil Gasket.
S-231-8-81	S-231-8	
S-231-12-81	S-231-12	
S-231-4-82	S-231-4	(1) Seat/Seat Assembly, (1) Grafoil Gasket.
S-231-8-82	S-231-8	
S-231-12-82	S-231-12	
S-231-4-83	S-231-4	(1) Grafoil Gasket.
S-231-8-83	S-231-8	
S-231-12-83	S-231-12	
S-231-4-85	S-231-4	(1) Handwheel, (2) Packing Bolt, (2) Nut, (1) Stem & Seat Assembly, (4) Bonnet Bolt, (4) Bonnet nut, (1) Bonnet & Yoke ASM, (1) Retaining ring, (1) Stem bearing, (1) Gland Flange, (1) Grafoil Packing Set, (1) Chevron adapter, (1) Packing adapter, (1) Gasket, (1) Jam nut, (1) Washer, (1) Grafoil Gasket.
S-231-8-85	S-231-8	
S-231-12-85	S-231-12	

232 Series

Kit Number	Part Number	Kit Contents
S-232-4-81	S-232-4	(1) Packing adapter, (1) Chevron adapter, (1)Chevron set, (1) Gasket.
S-232-8-81	S-232-8	
S-232-12-81	S-232-12	
S-232-4-82	S-232-4	(1) Seat/Seat Assembly, (1) Gasket.
S-232-8-82	S-232-8	
S-232-12-82	S-232-12	
S-232-4-83	S-232-4	(1) Gasket.
S-232-8-83	S-232-8	
S-232-12-83	S-232-12	
S-232-4-85	S-232-4	(1) Handwheel, (2) Packing Bolt, (2) Nut, (1) Stem & Seat Assembly, (4) Bonnet Bolt, (4) Bonnet nut, (1) Bonnet & Yoke ASM, (1) Retaining ring, (1) Stem bearing, (1) Gland Flange, (1)Chevron Set, (1) Chevron adapter, (1) Packing adapter, (1) Gasket, (1) Jam nut, (1) Washer, (1) Gasket.
S-232-8-85	S-232-8	
S-232-12-85	S-232-12	

CFM, AFM, PFM, SFM, CSB, & CSM Series

Kit Number	Part Number	Kit Contents
CFM2D-82	SFM, CFM, AFM, PFM, CSB, CSM Fill Manifolds Series	(1) Piston Assy, (1) Spring,(1) Strainer, (1) Gasket.
CFM2D-86	CFM-2D & CFM-4D, CSB2D, CSB4D	(1) Copper gasket, (1) Retrofit Kit, (01) Gasket, (04) Cap screw, (01) Rear Flange Assy.
CSM2D-86	CSM2D, CSM4D	
SKM9408-83	CSB2D, CSM2D	(1) Gasket.
SKM9412-83	CSB4D, CSM4D	
SKM9408-80AJ	CSB2D, CSM2D	(1) Gasket and (1) Seat Disc Assembly.
SKM9412-80AJ	CSB4D, CSM4D	
SKM9408-80J	CSB2D, CSM2D	(2) Spring, Belleville, (1) Washer, Live-loading, (5) Packing, Bonnet, (4)Packing,separator, (1) Bearing, Bonnet, (1)Follower, Gland, (1) Packing, Adapter.
SKM9412-80J	CSB4D, CSM4D	
SKM9408-KIT	CSB2D, CSM2D	(1) Gasket, (1) Stem, (1) Bonnet & tube Assy, (2) Spring, Belleville,(1) Washer, Live-loading, (5) Packing, Bonnet, (4)Packing, Separator, (1) Bearing, Bonnet, (1) Follower, Gland, (1) Nut, Stem, (1) Ring, Retaining, (1)Packing, Adapter, (1) Nut, Bonnet, (4) Screw, (1) Handwheel, (1) Nut, Hex, and (1) Washer.
SKM9412-KIT	CSB4D, CSM4D	

2500 and 2550 Series

Kit Number	Part Number	Kit Contents
2505AC-80	2505AC	(2) Seat disc,(1) Diaphragm,(1) Washer, (1) Gaskets.
2507AC-80	2507AC	
2511AC-80	2511AC	
2513AC-80	2513AC	
2553AC-80	2553AC, 2553AAC.	(1) Diaphragm Assembly, (1) Washer.
2554AC-80	2554AC, 2554AAC.	

Repair Kits

302 and 322 Series

Kit Number	Part Number	Kit Contents
B-322-8-81	B-302-8, B-312-8, B-322-8, WCB-8, WCBN-8, GB-322WE-8.	(1) Handwheel nut, (1) Bonnet Bearing, (1) Grand follower, (5) Bonnet packing, (4) packing separator, (1) Bonnet packing adapter.
B-322-12-81	B-302-12, B-312-12, B-322-12, WCB-12, WCBN-12.	
B-322-16-81	B-322-16	
B-322-20-81	B-302-20, B-312-20, B-322-20, WCB-20, WCBN-20.	
B-322-24-81	B-302-24, B-312-24, B-322-24, WCB-24, WCBN-24.	
B-322-8-82	B-302-8, B-312-8, B-322-8, WCB-8, WCBN-8, GB-322WE-8.	(1) Split Wedge Assembly, (1) Bonnet Gasket.
B-322-12-82	B-302-12, B-312-12, B-322-12, WCB-12, WCBN-12.	
B-322-16-82	B-322-16	
B-322-20-82	B-302-20, B-312-20, B-322-20, WCB-20, WCBN-20.	
B-322-24-82	B-302-24, B-312-24, B-322-24, WCB-24, WCBN-24.	
B-322-8-83	B-302-8, B-312-8, B-322-8, WCB-8, WCBN-8, GB-322WE-8.	(1) Bonnet Gasket.
B-322-12-83	B-302-12, B-312-12, B-322-12, WCB-12, WCBN-12.	
B-322-16-83	B-322-16	
B-322-20-83	B-302-20, B-312-20, B-322-20, WCB-20, WCBN-20.	
B-322-24-83	B-302-24, B-312-24, B-322-24, WCB-24, WCBN-24.	
B-322-4KIT	B-322-4	(1)Handwheel, (1) Handwheel nut, (1) Stem, (1) Bonnet Nut, (1) Bonnet & Tube ASM, (1) Bonnet ring, (1) Split wedge ASM, (1) Bonnet bearing, (1) Gland follower, (5) Bonnet packing, (4) Packing separator, (1) Bonnet packing adapter, (1) Bonnet gasket.
B-322-8KIT	B-322-8	
B-322-12KIT	B-322-12	
B-322-16KIT	B-322-16	
B-322-20KIT	B-322-20	
B-322-24KIT	B-322-24	

302, 306, 322, and 326 Series

Kit Number	Part Number	Kit Contents
B-326-4-81	B-312-4, B-322-4, B-326-4, GB-326WE-4, WCB-4, WCBN-4.	(1) Handwheel nut, (1) Bonnet bearing, (1) Gland follower, (5) Packing, (4) Packing Separator, (1) Packing adapter.
B-326-6-81	B-302-6, B-306-6, B-312-6, B-326-6, WCB-6, WCBN-6.	
B-326-8-81	B-306-8, B-326-8, GB-0326EP-8, GB-0326WE-8.	
B-326-12-81	B-306-12, B-326-12, GB-0326EP-12, GB-0326WE-12.	
B-326-16-81	B-302-16, B-306-16, B-312-16, B-322-16, B-326-16, GB-322WE-16, GB-326EP-16, WCB-16, WCBN-16.	
B-326-4-82	B-312-4, B-322-4, B-326-4, GB-326WE-4, WCB-4, WCBN-4	(1) Split Wedge Assembly, (1) Bonnet gasket.
B-326-6-82	B-302-6, B-306-6, B-312-6, B-326-6, WCB-6, WCBN-6.	
B-326-8-82	B-306-8, B-326-8, GB-0326EP-8, GB-0326WE-8.	
B-326-12-82	B-306-12, B-326-12, GB-0326EP-12, GB-0326WE-12.	
B-326-16-82	B-302-16, B-306-16, B-312-16, B-322-16, B-326-16, GB-322WE-16, GB-326EP-16, WCB-16, WCBN-16.	
B-326-4-83	B-312-4, B-322-4, B-326-4, GB-326WE-4, WCB-4, WCBN-4	(1) Bonnet gasket.
B-326-6-83	B-302-6, B-306-6, B-312-6, B-326-6, WCB-6, WCBN-6.	
B-326-8-83	B-306-8, B-326-8, GB-0326EP-8, GB-0326WE-8.	
B-326-12-83	B-306-12, B-326-12, GB-0326EP-12, GB-0326WE-12.	
B-326-16-83	B-302-16, B-306-16, B-312-16, B-322-16, B-326-16, GB-322WE-16, GB-326EP-16, WCB-16, WCBN-16.	
B-326-4KIT	B-326-4	(1)Handwheel, (1) Handwheel nut, (1) Stem, (1) Bonnet Nut, (1) Bonnet & Tube ASM, (1) Bonnet ring, (1) Split wedge ASM, (1) Bonnet bearing, (1) Gland follower, (5) Bonnet packing, (4) Packing separator, (1) Bonnet packing adapter, (1) Bonnet gasket.
B-326-6KIT	B-326-6	
B-326-8KIT	B-326-8	
B-326-12KIT	B-326-12	
B-326-16KIT	B-326-16	

302 Series

Kit Number	Part Number	Kit Contents
B-302-4KIT	B-302-4	(1)Handwheel, (1) Handwheel nut, (1) Stem, (1) Bonnet Nut, (1) Bonnet & Tube ASM, (1) Bonnet ring, (1) Split wedge ASM, (1) Bonnet bearing, (1) Gland follower, (5) Bonnet packing, (4) Packing separator, (1) Bonnet packing adapter, (1) Bonnet gasket.
B-302-8KIT	B-302-8	
B-302-12KIT	B-302-12	
B-302-16KIT	B-302-16	
B-302-20KIT	B-302-20	
B-302-24KIT	B-302-24	

Repair Kits

306 Series

Kit Number	Part Number	Kit Contents
B-000306-6KIT	B-000306-6	(1)Handwheel, (1) Handwheel nut, (1) Stem, (1) Bonnet Nut, (1) Bonnet & Tube ASM, (1) Bonnet ring, (1) Split wedge ASM, (1) Bonnet bearing, (1) Gland follower, (5) Bonnet packing, (4) Packing separator, (1) Bonnet packing adapter, (1) Bonnet gasket.
B-000306-8KIT	B-000306-8	
B-000306-12KIT	B-000306-12	
B-000306-16KIT	B-000306-16	

310 Series

Kit Number	Part Number	Kit Contents
B-310X-24-81	B-310-20, B-310-24, B-310C-24, B-310X-20, B-310X-24, SB-310S-24SW.	(1) Handwheel nut, (1) Bonnet bearing, (1) Gland follower, (5) Packing, (4) Packing separator, (1) Packing adapter.
B-310X-24-82		(1) Wedge, (1) Seat,(1) Seat clamp, (3) Cap screw, (1) Gasket.
B-310X-24-83		(1) Gasket.
B-310X-24-84		(1) Seat,(1) Seat clamp, (3) Cap screw, (1) Gasket.
B-310X-24KIT	B-310X-20, B-310X-24.	(1)Handwheel, (1) Handwheel nut, (1) Stem, (1) Bonnet Nut, (1) Bonnet & Tube ASM, (1) Bonnet ring, (1) Split wedge ASM, (1) Bonnet bearing, (1) Gland follower, (5) Bonnet packing, (4) Packing separator, (1) Bonnet packing adapter, (1) Bonnet gasket.
B-310-24KIT	B-310-20, B-310-24.	

110 Series

Kit Number	Part Number	Kit Contents
S-110-08-81	GS-110W-4, GS-110W-6 and GS-110W-8.	(1) Packing Adapter, (1) Chevron adapter, (01) Chevron set, (1) Gasket.
S-110-16-81	GS-110W-12 and GS-110W-16.	
S-110-24-81	GS-110W-24.	
S-110-32-81	GS-110W-32.	
S-110-48-81	GS-110W-48.	
S-110WHZ-08-81	GS-110WHZ-4, GS-110WHZ-6 and GS-110WHZ-8.	(1) Packing Adapter, (1) Chevron adapter, (01) Grafoil set, (1) Gasket.
S-110WHZ-16-81	GS-110WHZ-12 and GS-110WHZ-16.	
S-110WHZ-24-81	GS-110WHZ-24.	
S-110WHZ-32-81	GS-110WHZ-32.	
S-110WHZ-48-81	GS-110WHZ-48.	
S-110-08-82	GS-110W-4, GS-110W-6 and GS-110W-8.	(1) Wedge/Stem Assembly, (1) Seat, (1) Seat Clamp, (1) Cap Screw, (1) Gasket.
S-110-16-82	GS-110W-12 and GS-110W-16.	
S-110-24-82	GS-110W-24.	
S-110-32-82	GS-110W-32.	
S-110-48-82	GS-110W-48.	
S-110WHZ-8-82	GS-110WHZ-4, GS-110WHZ-6 and GS-110WHZ-8.	
S-110WHZ-16-82	GS-110WHZ-12 and GS-110WHZ-16.	
S-110WHZ-24-82	GS-110WHZ-24.	
S-110WHZ-32-82	GS-110WHZ-32.	
S-110WHZ-48-82	GS-110WHZ-48.	
S-110-08-83	GS-110W-4, GS-110W-6 and GS-110W-8.	(1) Gasket.
S-110-16-83	GS-110W-12 and GS-110W-16.	
S-110-24-83	GS-110W-24.	
S-110-32-83	GS-110W-32.	
S-110-48-83	GS-110W-48.	
S-110WHZ-08-83	GS-110WHZ-4, GS-110WHZ-6 and GS-110WHZ-8.	
S-110WHZ-16-83	GS-110WHZ-12 and GS-110WHZ-16.	
S-110WHZ-24-83	GS-110WHZ-24.	
S-110WHZ-32-83	GS-110WHZ-32.	
S-110WHZ-48-83	GS-110WHZ-48.	
S-110-08-84	GS-110W-4, GS-110W-6 and GS-110W-8.	(1) Gasket, (1) Seat, (1) Seat Clamp, (1) Cap Screw.
S-110-16-84	GS-110W-12 and GS-110W-16.	
S-110-24-84	GS-110W-24.	
S-110-32-84	GS-110W-32.	
S-110-48-84	GS-110W-48.	
S-110WHZ-08-84	GS-110WHZ-4, GS-110WHZ-6 and GS-110WHZ-8.	
S-110WHZ-16-84	GS-110WHZ-12 and GS-110WHZ-16.	
S-110WHZ-24-84	GS-110WHZ-24.	
S-110WHZ-32-84	GS-110WHZ-32.	
S-110WHZ-48-84	GS-110WHZ-48.	
S-110WHZ08-853	GS-110WHZ-4, GS-110WHZ-6 and GS-110WHZ-8.	(1) Handwheel Assembly, (2) Bolt, (2) Nut, (1) Stem & Wedge Assembly, (4) Bolt, (1) Bonnet & Yoke Assembly, (1) Retaining Ring, (1) Stem Bearing, (1) Gland Flange, (1) Packing Set, (1) Chevron Adapter, (1) Packing Adapter, (2) Gasket- Grafoil, (1) Seat, (1) Seat Clamp, (2) Socket Head Cap Screw, (1) Set Screw.
S-110WHZ16-853	GS-110WHZ-12 and GS-110WHZ-16.	
S-110WHZ24-853	GS-110WHZ-24.	
S-110WHZ32-853	GS-110WHZ-32.	
S-110WHZ48-853	GS-110WHZ-48.	

Repair Kits

LOX110 Series

Kit Number	Part Number	Kit Contents
LOX110W-08-85	LOX110W-04, LOX110W-06,and LOX110W-08.	(1) Handwheel Assembly, (2) Bolt, (2) Nut, (1) Stem & Wedge Assembly, (4) Bolt, (1) Bonnet & Yoke Assembly, (1) Retaining Ring, (1) Stem Bearing, (1) Gland Flange, (1) Packing Set, (1) Chevron Set, (1) Chevron Adapter, (1) Packing Adapter, (2) Gasket, (1) Seat, (1) Seat Clamp, (2) Socket Head Cap Screw, (1) Set Screw.
LOX110W-16-85	LOX110W-12,and LOX110W-16.	
LOX110W-24-85	LOX110W-24.	
LOX110W-32-85	LOX110W-32.	
LOX110W-48-85	LOX110W-48.	
LOX110WEP-16-85	LOX110WEP-12,and LOX110WEP-16.	
LOX110WEP-32-85	LOX110WEP-32.	
LOX110WEP-48-85	LOX110WEP-48.	

840 and 846M Series

Kit Number	Part Number	Kit Contents
B-840-4-82	B-840-4.	(1) Disc/Arm Assembly, (1) Gasket, (1) Pivot Pin, (2) Side Plug, (2) Plug Gasket.
B-840-6-82	B-840-6.	
B-840-8-82	B-840-8.	
B-840-12-82	B-840-12.	
B-840-16-82	B-840-16.	
B-846M-4-82	B-846M-4.	
B-846M-6-82	B-846M-6.	
B-846M-8-82	B-846M-8.	
B-846M-12-82	B-846M-12.	
B-846M-16-82	B-846M-16.	

886 Series

Kit Number	Part Number	Kit Contents
S-886-04-82	S-886-4	(1) Disc/Arm Assembly, (1) Pin, (1) Gasket.
S-886-08-82	S-886-8	
S-886-12-82	S-886-12	
S-886-16-82	S-886-16	
S-886-24-82	S-886-24	
S-886-32-82	S-886-32	
S-886M-04-82	S-886M-4	
S-886M-08-82	S-886M-8	
S-886M-12-82	S-886M-12	
S-886M-16-82	S-886M-16	
S-886M-24-82	S-886M-24	
S-886M-32-82	S-886M-32	
S-886GF-04-82	S-886GF-4	(1) Disc/Arm Assembly, (1) Pin, (1) Grafoil Gasket.
S-886GF-08-82	S-886GF-8	
S-886GF-12-82	S-886GF-12	
S-886-04-83	S-886-4	(01) Gasket.
S-886M-8-83	S-886M-8	
S-886M-12-83	S-886M-12	
S-886M-16-83	S-886M-16	
S-886M-24-83	S-886M-24	
S-886M-32-83	S-886M-32	
S-886GF-04-83	S-886GF-4	(1) Grafoil Gasket.
S-886GF-08-83	S-886GF-8	
S-886GF-12-83	S-886GF-12	

TA3217AR410 Series

Kit Number	Part Number	Kit Contents
TA3217AR-80	TA3217AR410	(1) Gasket , (1) Gasket, (1) Seat, (1) Stem Bearing, (1) Seat Retainer, (1) Bearing Seal Grand, (1) Retainer Ring, (1) "V" Packing Male Ring, (3) "V" Packing Female Ring, (1) Body Bearing, (1) O-ring, (1) Dust Seal, (1) Coiling Spring Ring, (1) Seal Housing, (1) Seal Spring, (1) Groove Pin, (1) Upper Stem Bearing, (1) Retaining Ring.

Repair Kits

1780 and BR-1780 Series.

Kit Number	Part Number	Kit Contents
BR-1784-80	1784 Series	Diaphragm assembly, stem and seat assembly, seal, Viton seat
BR-1786-80	1786 Series and 1788 Series	Diaphragm assembly, stem and seat assembly, seal, viton seat for oxygen service
BR-1784-7SKA	1784 Series	Spring kit for 1784, “A” spring range, 5 to 55 psig (.34 o 3.79 barg) delivery pressure 1784 “B” spring range, 40 to 110 psig (2.75 to 7.58 barg) delivery pressure Spring kit for 1784, “C” spring range, 100 to 200 psig (6.89 to 13.78 barg) delivery pressure, Spring kit for 1784, “D” spring range 175 to 300 psig (12 o 20.7 barg) delivery pressure
BR-1784-7SKB		
BR-1784-7SKC		
BR-1784-7SKD		
BR-1786-7SKA	1786 Series	Spring kit for 1786, “A” spring range, 5 to 55 psig (.34 o 3.79 barg) delivery pressure 1786 “B” spring range, 40 to 110 psig (2.75 to 7.58 barg) delivery pressure Spring kit for 1786, “C” spring range, 100 to 200 psig (6.89 to 13.78 barg) delivery pressure, Spring kit for 1786, “D” spring range 175 to 300 psig (12 o 20.7 barg) delivery pressure
BR-1786-7SKB		
BR-1786-7SKC		
BR-1786-7SKD		
BR-1788-7SKA	1788 Series	Spring kit for 1788, “A” spring range, 5 to 55 psig (.34 o 3.79 barg) delivery pressure 1788 “B” spring range, 40 to 110 psig (2.75 to 7.58 barg) delivery pressure Spring kit for 1788, “C” spring range, 100 to 200 psig (6.89 to 13.78 barg) delivery pressure, Spring kit for 1788, “D” spring range 175 to 300 psig (12 o 20.7 barg) delivery pressure
BR-1788-7SKB		
BR-1788-7SKC		
BR-1788-7SKD		

1682M and C-1682M Series.

Kit Number	Part Number	Kit Contents
1682Y-80	1682Y Series	Diaphragm assembly, stem and seat assembly seal.
C-1682M-80	C-1682M Series	
1686Y-80	1686Y, 1688Y Series	
1684MHP-80	1684MHP	
1684M-80	BR-1684M Series	
1686M-80	1686M, 1688M Series	
1682M-80	1682M Series	Molded diaphragm assembly, stem and seat assembly seal.
1684M-80	1684M Series	
1684Y-80	1684Y Series	Diaphragm assembly, stem and seat assembly seal, guide.

M2523HP Series.

Kit Number	Part Number	Kit Contents
2523HP-80A	M2523HP350, M2523HP540, M2523HP580,M2523HP590, M2523HP1320	Seat and centerpiece assembly, diaphragm assembly, nozzle, spring, washer, gaskets.
2523HP-80B	M2523HP320	

HP9560 Series.

Kit Number	Part Number	Kit Contents
9500-80K*	UL9500 Series,NUL9500 Series	(1) Packing ring set, (1) Washer, 1) Seal washer, (1) Seat Disc & Retainer Assembly.
9550-80	9550 Series	(1) Seat Assembly, (1) O-ring, (2) Back up Ring, (3) Washer, (1) O-ring.
9550-3-80	9550 Series	(1) Sleeve.
9560-81	9560 Series	(1) O-ring, (1) Back up ring, (1) Thrust Bearing, (1) Friction washer.
9560C-80	HP9560C Series, 9560C Series	(1) Seat Assembly, (1) O-ring, (1) Back up Ring, (2) Washer, (1) Thrust bearing, (1)Retainer lower, (1) Nut, (1) friction washer, (1) Retainer, (1) Seat insert.
9560-80	HP9560 Series, 9560 Series	(1) Seat Assembly, (1) O-ring, (1) Back up Ring, (2) Washer, (1) Thrust bearing, (1)Retainer lower, (1) Nut, (1) friction washer, (1) Retainer.
9560N-80 Repair Kit	HP9560N Series, 9560N Series	(1) Seat Assembly Nylon, (1) O-ring, (1) Back up Ring, (2) Washer, (1) Thrust bearing, (1)Retainer lower, (1) Nut, (1) friction washer, (1) Retainer.
9560-4-80	HP9560 Series, HP9560N Series	(1) Stem.
9560-7-80	HP9560P Series, 9560P Series	(1) Stem, (1) Nut, (1) Bonnet cap.
9560-8-80	HP9560P Series, 9560P Series	(1) Stem.

* Post 1978

7160 Series.

Kit Number	Part Number	Kit Contents
7160-80B	7160 Series	(1) Bonnet, (1) Stem, (1)Lower Stem Assembly,(1) Screw, (1) Handwheel.

Repair Kits

Valve PN	Repair Kit PN	Description	Repair Kit PN	Description
CV9404SW	CV009404-80	Seat Repair	CV009404-83	Gasket Repair
CV9404BW	CV009404-80	Seat Repair	CV009404-83	Gasket Repair
CV9404T	CV009404-80	Seat Repair	CV009404-83	Gasket Repair
CV9406SW	CV009408-80	Seat Repair	CV009408-83	Gasket Repair
CV9406BW	CV009408-80	Seat Repair	CV009408-83	Gasket Repair
CV9406T	CV009408-80	Seat Repair	CV009408-83	Gasket Repair
CV9408SW	CV009408-80	Seat Repair	CV009408-83	Gasket Repair
CV9408BW	CV009408-80	Seat Repair	CV009408-83	Gasket Repair
CV9408T	CV009408-80	Seat Repair	CV009408-83	Gasket Repair
CV9412SW	CV009412-80	Seat Repair	CV009412-83	Gasket Repair
CV9412BW	CV009412-80	Seat Repair	CV009412-83	Gasket Repair
CV9412T	CV009412-80	Seat Repair	CV009412-83	Gasket Repair
CV9416SW	CV009416-80	Seat Repair	CV009416-83	Gasket Repair
CV9416BW	CV009416-80	Seat Repair	CV009416-83	Gasket Repair
CV9416T	CV009416-80	Seat Repair	CV009416-83	Gasket Repair
*-80 seat repair contains	1 seat assy, 1 gasket and 1 instruction sheet			
*-83 gasket repair kits contains	1 gasket and instruction sheet			

CBE504 Series

Kit Number	Part Number	Kit Contents
CBE504-80R	CBE504 Series	Poppet, Seat Stem, Gasket
CBE504-81R		Diaphragms, Gasket

RG Series

Kit Number	Part Number	Kit Contents
RG-80*	RG75, 125, CBC125 & CBH125, LCR	Backcap gasket, diaphragm assembly, diaphragm gasket, seat assembly
RG-80A*	RG300	
RG-81**	RG18-175 Series A & AG, CBC125A & CBH125A, LCR200A Series. LCR100AG Series	
RG-81A**	RG200-325 Series A & AG, CBC300A & CBH300A, LCR350A Series, LCR200AG & 250AG Series	
RG-82	RG18-175 Series A & AG, CBC125A & CBH125A, LCR200A Series. LCR100 AG Series	Diaphragm assembly, gasket.
1784NG-80	1784NG Series	(1) Diaphragm assembly,(1) seat assembly,(1) gasket.

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Notes

Notes

CG-500 Catalog Cryogenic & Industrial Gas Equipment

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