

# REGO®



REGO  
**10**  
YEAR  
WARRANTY



## 2020 Featured Product Information

- Compact 3/4" Back-Mount Second Stage Regulator
- Dielectric Second Stage Regulators for 2 PSI Systems
- Dielectric Low Pressure Second Stage Regulators
- Compact Regulators with POL
- LP-Gas Fueling Nozzle
- Grounding Lugs
- Internal Valves
- Relief Valves

# The Tradition Continues



**THE REGO FACTORY**  
246-258 E. Ontario Street  
Chicago, Illinois



## History

From the company that pioneered propane regulators, you expect nothing less than products that lead the industry. For over 110 years, we have been manufacturing gas regulating equipment to the highest standards of precision and durability—standards that we set.

## Long Lasting Product

With the largest installed base in the industry, RegO has over 110 years of field proven track record of long lasting service.



## Industries Best Partners to Help Support You

Our distributors are the best in the industry. Distributors are indispensable contributors to our success and we treat them as the valuable partners they are. We support our distributors and OEMs with training, inventory and technical support around the world.



## Manufacturing Excellence

RegO uses top quality materials and precise robot-assisted manufacturing in our US factories. That means every product has consistent quality.



## Quality Design & Manufacturing

Our regulators have stood the test of time. The basic design is ingenious. The materials are top quality. The robot-assisted manufacturing is precise. RegO values the relationships we have with our customers, and we stand behind our products.



## Made in the USA

All RegO manufactured LPG products are designed, assembled and tested in North Carolina. Products Made in the USA allow us to maintain our strict quality control standards that are unmatched by any other company. Every single unit is rigorously tested before it goes out the door.



# A Better Built Valve Means Low Cost of Ownership



## 100% Testing

All our products are 100% tested at multiple steps in the process from incoming component quality to final assembly testing for leakage, lock up and set pressure.



## 10 Year Warranty on All Products

RegO values the relationships we have with our customers, and we stand behind our products. We support our channel partners with ongoing training and technical assistance. Quality materials, innovations and long lasting design are built into every product we manufacture. That's how we can offer the RegO 10 Year Warranty, double that offered by most manufacturers.



## 25 Year Silver Service Life

RegO Regulators stand the test of time. With an Industry leading 25 year recommended service life our regulators provide a lower cost of ownership and reliable service.



## Supply Chain Management

RegO utilizes the Production Part Approval Process (PPAP) in our supply chain. Critical measurements are taken of all components parts to ensure quality and reliability.

## World-class quality—but don't 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 operations under harsh conditions. With internal standards like these, it's no wonder that RegO quality is recognized the world over.



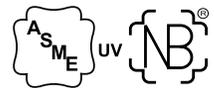
**LISTED**



**ISO 9001:2015**



**TPED**



**ASME & NB**



**PED**



**CRN**



**ATEX**

# Compact 3/4" Back-Mount Second Stage Regulator LV3403B66R

## Application

The LV3403B66R Back Mount Regulator is designed to reduce first stage pressure of 5-10 PSIG down to burner pressure normally 11" w.c. Designed as a second stage regulator for smaller applications with flow requirements up to 450,000 BTU/hr. and are ideal for homes, mobile homes, and cottages.

## Features

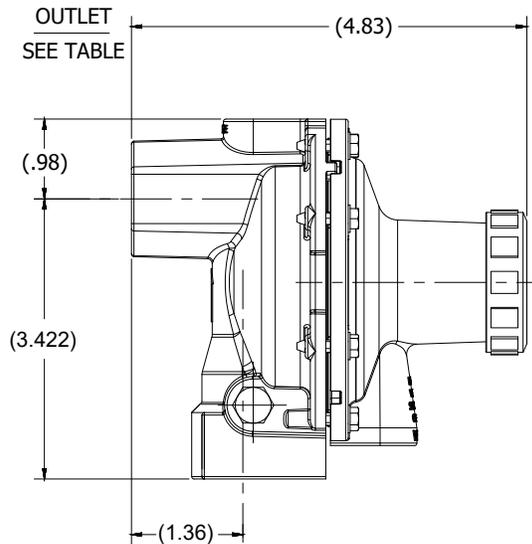
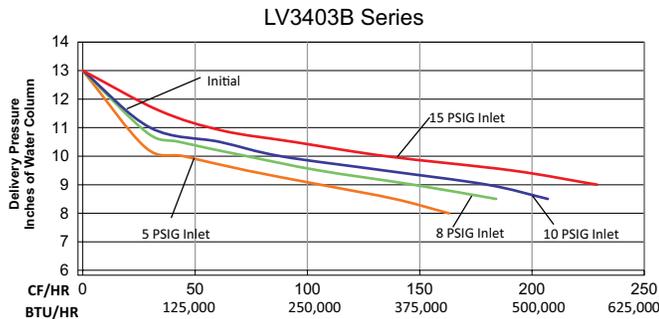
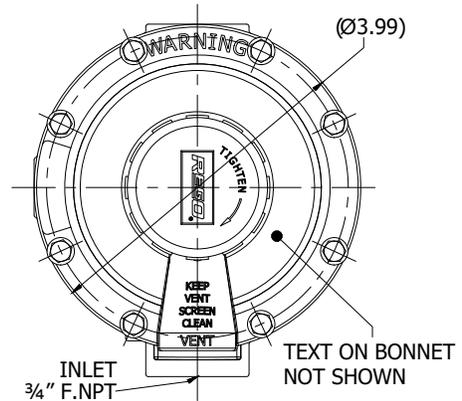
- Built in 1/8" F.NPT pressure taps on both regulator inlet and outlet side of the regulator. Plugs can be removed with a wrench.
- Large vent helps prevent vent blockage, it is tapped for 3/8" F.NPT for vent pipe away applications.
- With 15 PSIG inlet pressure, the regulator is designed to not pass more than 2 PSIG downstream with the seat disc removed per UL 144 specifications.
- Incorporates an integral relief valve per UL 144 specifications.
- Unique bonnet vent profile minimizes vent freeze over.
- Compact design saves space.
- Patented laser-engraved information is easy to see and matches available stickers for gas check and record keeping

## Materials

Body .....Zinc  
 Bonnet .....Zinc  
 Spring ..... Steel  
 Seat Disc ..... Resilient Rubber  
 Diaphragm ..... Integrated Fabric and Synthetic Rubber



LV3403B66R



## Ordering Information

Part Number	Inlet Connection	Outlet Connection	Orifice Size	Factory Delivery Pressure	Adjustment Range	Bonnet Vent Position	Vapor Capacity BTU/hr*
LV3403B66R	3/4" F.NPT	3/4" F.NPT	7/32"	11" w.c. At 10 PSIG Inlet	9" to 13" w.c.	Over Inlet	450,000

\* Maximum flow based on 10 PSIG inlet and 9" w.c. delivery pressure.

# Dielectric Second Stage Regulators for 2 PSI Systems LV4403Y3D Series

## Application

Designed to reduce first stage pressure of 10 PSIG down to 2 PSIG. A line pressure regulator is required downstream to reduce the 2 PSIG to a nominal 11" w.c.

RegO Dielectric second stage regulators for 2 PSI systems are engineered to isolate potential electrical current from metallic piping before entering a building. The use of a separate dielectric union is not necessary because the regulator contains a dielectric union as part of the inlet assembly. Available in both SAE Flare and F.NPT inlet connection.

## Features

- F. NPT Dielectric Union is made of Brass with inlet Portion Made of Plated Steel
- M. SAE Flare inlet connection made of solid Brass
- Large vent helps prevent blockage and has 3/4" F.NPT for vent piping.
- With 15 PSIG inlet pressure, regulator is designed to not pass more than 5 PSIG with the seat disc removed.
- Incorporates an integral relief valve.
- Replaceable valve orifice and valve seat disc.
- Straight line valve closure reduces wear on seat disc.
- Unique bonnet vent profile minimizes vent freeze over when properly installed.
- Large molded diaphragm is extra sensitive to pressure changes.
- Built in pressure tap has plugged 1/8" F.NPT outlet. Plug can be removed with a 3/16" hex allen wrench.
- Select blue finish.

## \*Backmount Design

Mounts directly to house line piping. Eliminates need for union joints, elbows, and mounting brackets. Quick and easy to install.

## Materials

Body .....	Die Cast Zinc
Bonnet .....	Die Cast Zinc
Nozzle Orifice .....	Brass
Spring .....	Steel
Valve Seat Disc .....	Resilient Rubber
Diaphragm .....	Integrated Fabric and Synthetic Rubber
Dielectric Union Body .....	Brass
Dielectric Union Inlet .....	Plated Steel

## Ordering Information

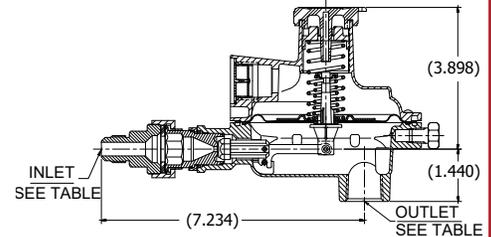
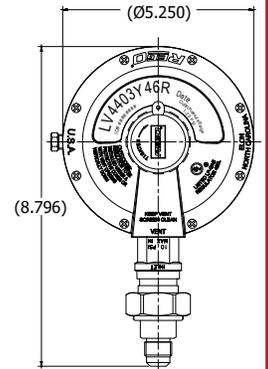
Part Number	Inlet Connection	Outlet Connection	Orifice Size	Adjustment Range	Bonnet Vent Position	Vapor Capacity BTU/hr. Propane**
LV4403Y1D	1/2" M. Flare	1/2" F. NPT	1/4"	2 PSIG @ 10 PSIG Inlet	Over Inlet	1,000,000
LV4403Y3D	3/8" M. Flare					
LV4403Y5D	5/8" M. Flare					
LV4403Y16D	1/2" M. Flare	3/4" F. NPT				
LV4403Y16RD*						
LV4403Y36D						
LV4403Y36RD*	3/8" M. Flare	3/4" F. NPT				
LV4403Y56D	5/8" M. Flare					
LV4403Y56RD*						
LV4403Y4D	1/2" F. NPT	1/2" F. NPT				
LV4403Y46D	3/4" F. NPT	3/4" F. NPT				
LV4403Y66D	1/2" F. NPT					
LV4403Y66RD	3/4" F. NPT*					

\* Backmount design

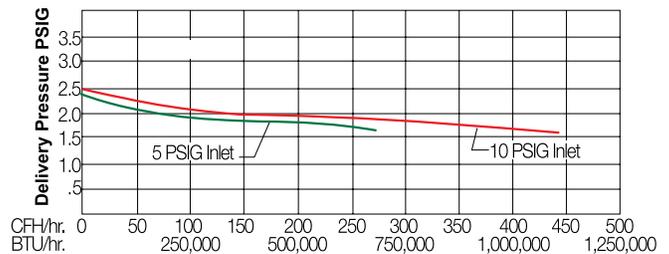
\*\* Maximum flow is based on 10 PSIG inlet pressure and 1.5 PSIG delivery pressure.



LV4403Y3D



LV4403Y4D, LV4403Y46RD



# Dielectric Second Stage Regulators for 2 PSI Systems LV5503YD Series

## Application

Designed to reduce first stage pressure of 10 PSIG down to 2 PSIG. A line pressure regulator is required downstream to reduce the 2 PSIG to a nominal 11" w.c.

RegO Dielectric second stage regulators for 2 PSI systems are engineered to isolate potential electrical current from metallic piping before entering a building. The use of a separate dielectric union is not necessary because the regulator contains a dielectric union as part of the inlet assembly. Available in both SAE Flare and F.NPT inlet connection.

## Features

- F. NPT Dielectric Union is made of Brass with inlet Portion Made of Plated Steel
- M. SAE Flare inlet connection made of solid Brass
- Large vent helps prevent blockage and has 3/4" F.NPT for vent piping.
- With 15 PSIG inlet pressure, regulator is designed to not pass more than 5 PSIG with the seat disc removed.
- Incorporates an integral relief valve.
- Replaceable valve orifice and valve seat disc.
- Straight line valve closure reduces wear on seat disc.
- Unique bonnet vent profile minimizes vent freeze over when properly installed.
- Large molded diaphragm is extra sensitive to pressure changes.
- Built in pressure tap has plugged 1/8" F.NPT outlet. Plug can be removed with a 3/16" hex allen wrench.
- Select blue finish.

## \*Backmount Design

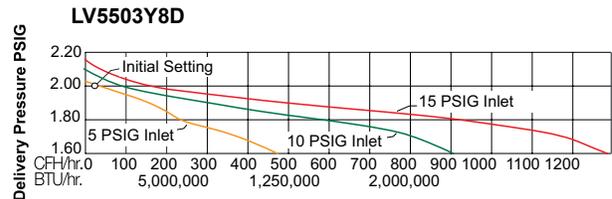
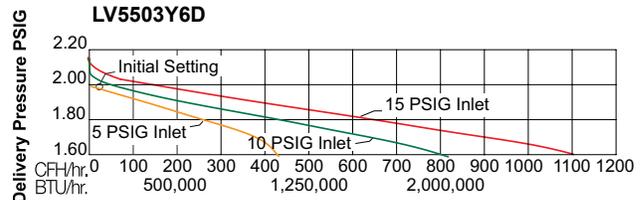
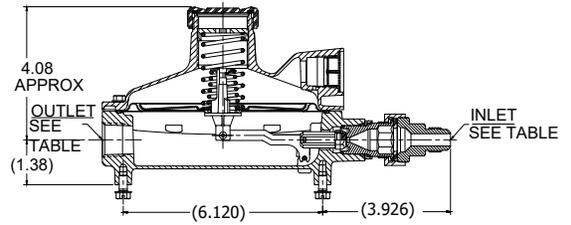
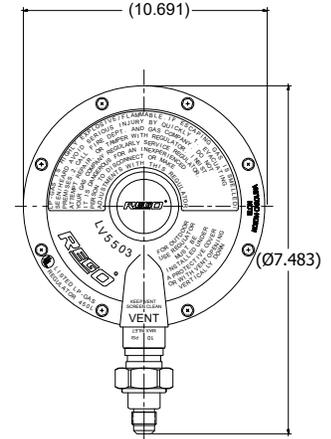
Mounts directly to house line piping. Eliminates need for union joints, elbows, and mounting brackets. Quick and easy to install.

## Materials

Body .....	Die Cast Aluminum
Bonnet .....	Die Cast Aluminum
Nozzle Orifice .....	Brass
Spring .....	Steel
Valve Seat Disc .....	Resilient Rubber
Diaphragm .....	Integrated Fabric and Synthetic Rubber
Dielectric Union Body .....	Brass
Dielectric Union Inlet .....	Plated Steel



LV5503Y6D



## Ordering Information

Part Number	Inlet Connection	Outlet Connection	Orifice Size	Adjustment Range	Bonnet Vent Position	Vapor Capacity BTU/hr. Propane***
LV5503Y16D	1/2" M. Flare	3/4" F.NPT	1/4"	2 PSIG @ 10 PSIG Inlet	Over Inlet	2,200,000
LV5503Y18D		1" F.NPT	9/32"			
LV5503Y56D	5/8" M. Flare	3/4" F.NPT				
LV5503Y58D		1" F.NPT				
LV5503Y46D	1/2" F. NPT	3/4" F.NPT	1/4"			
LV5503Y48D		1" F.NPT	9/32"			
LV5503Y66D	3/4" F. NPT	3/4" F.NPT	1/4"			
LV5503Y68D		1" F.NPT	9/32"			

Maximum flow is based on 10 PSIG inlet pressure and 1.5 PSIG delivery pressure.

# Dielectric Low Pressure Second Stage Regulators - Standard Settings LV5503BD Series

## Application

Designed to reduce first stage pressure of 5 to 20 PSIG down to burner pressure, normally 11" w.c. Ideal for larger commercial and industrial applications, multiple cylinder installations and large domestic systems.

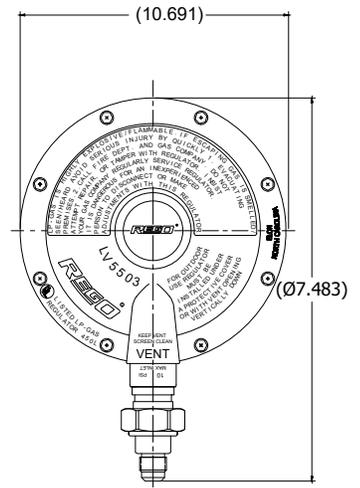
RegO Dielectric second stage regulators are engineered to isolate potential electrical current from metallic piping before entering a building. The use of a separate dielectric union is not necessary because the regulator contains a dielectric union as part of the inlet assembly. Available in both SAE Flare and F.NPT inlet connection.

## Features

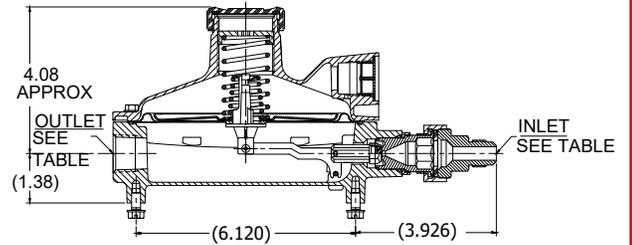
- Incorporates integral relief valve.
- With 15 PSIG inlet pressure, regulator is designed to not pass more than 2 PSIG with the seat disc removed.
- Replaceable valve orifice and valve seat disc.
- Straight line valve closure saves wear on seat disc and orifice.
- Built in pressure tap has plugged 1/8" F.NPT outlet. Plug can be removed with a 3/16" hex allen wrench.
- Large bonnet vent profile minimizes vent freeze over when properly installed.
- Extra long lever arm for uniform delivery pressure.
- Large diaphragm is extra sensitive to pressure changes.

## Materials

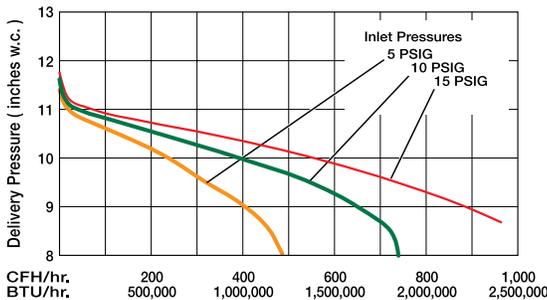
Body (LV5503BD Series) ..... Die Cast Aluminum  
 Bonnet (LV5503BD Series) ..... Die Cast Aluminum  
 Nozzle Orifice ..... Brass  
 Spring ..... Steel  
 Valve Seat Disc ..... Resilient Rubber  
 Diaphragm ..... Integrated Fabric and Synthetic Rubber



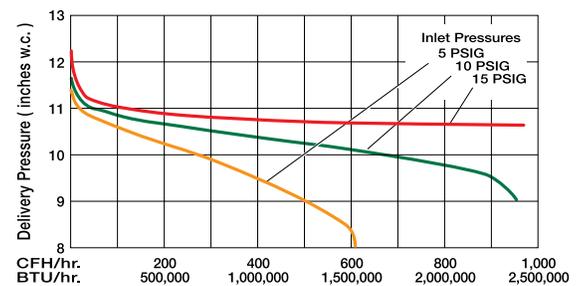
LV5503BD Series



LV5503B4, LV5503B6



LV5503B8



## Ordering Information

Part Number	Inlet Connection	Outlet Connection	Orifice Size	Factory Delivery Pressure	Adjustment Range	Bonnet Vent Position	Vapor Capacity BTU/hr. Propane
LV5503B4D	1/2" F. NPT	3/4" F. NPT	1/4"	11" w.c. at 10 PSIG Inlet	9" - 13" w.c.	Over Inlet	1,600,000
LV5503B6D		1" F. NPT	9/32"				
LV5503B8D	3/4" F. NPT						
LV5503B1D	1/2" M. Flare	3/4" F. NPT	1/4"				
LV5503B5D	5/8" M. Flare						
LV5503B16D	1/2" M. Flare	1" M. NPT	9/32"				
LV5503B48	1/2" F. NPT						

Maximum flow is based on 10 PSIG inlet and 9" w.c. delivery pressure.

# Compact Regulator with POL LV3403TR9 & LV3403TR9V9

## Application

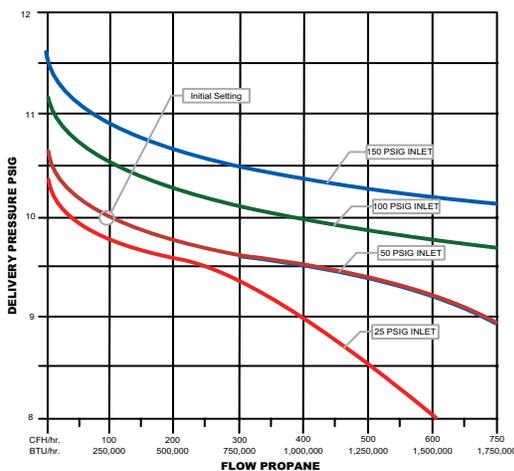
Ideal for use as a first stage regulator on any domestic size ASME or DOT container in propane gas installations requiring up to 1,500,000 BTU's per hour. The regulator is factory set to reduce container pressure to an intermediate pressure of approximately 10 PSIG.

## Features

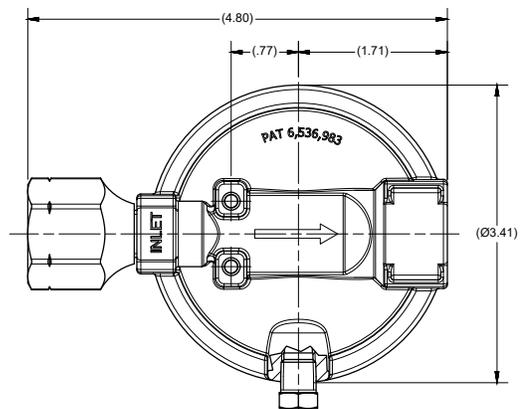
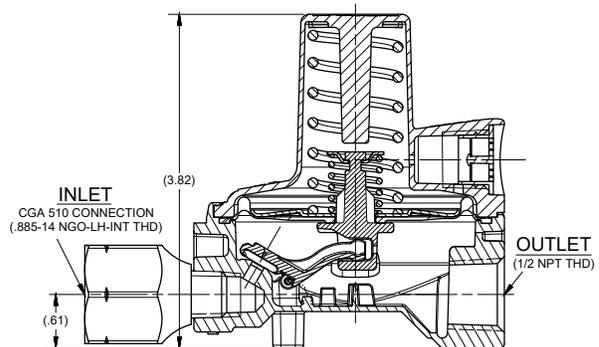
- Compact design can be connected to a service valve using either a POL adapter or a RegO product pigtail.
- Large threaded 3/8" F.NPT bonnet vent can easily be piped-away underground installations without the need of glue kits or extra adapters.
- Non Adjustable
- Large flow orifice resists freeze ups due to water concentration in LPG vapor.
- Design provides for good flow regulation at both high and low container pressures.
- Built in relief valve and travel stop comply with NFPA 58 over pressure requirements.
- Incorporates 1/8" F.NPT downstream pressure tap for an easy inline check of the regulator's delivery pressure.
- Molded diaphragm provides an o-ring type seal between the body and bonnet.
- Body and bonnet are assembled in the USA using the unique, patented RegUlok seal system.
- Fully painted in brilliant red for complete corrosion protection.
- Mounting bracket available as an accessory: part number 2302-31.

## Materials

Body ..... Zinc  
 Bonnet ..... Zinc  
 Spring ..... Steel  
 Seat Disc ..... Resilient Rubber  
 Diaphragm ..... Integrated Fabric and Synthetic Rubber



LV3403TR9V9



## Ordering Information

Part Number	Inlet Connection	Outlet Connection	Orifice Size	Factory Delivery Pressure	Bonnet Vent Position	Vapor Capacity BTU/hr Propane*
LV3403TR9	1/4" F.NPT	1/2" F.NPT	7/32"	10 PSIG	Over Outlet	1,500,000
LV3403TR9V9					9 O'clock	

\* Maximum flow based on inlet pressure 20 PSIG higher than the regulator setting and delivery pressure 20% lower than the regulator setting and delivery pressure 20% lower than the setting.

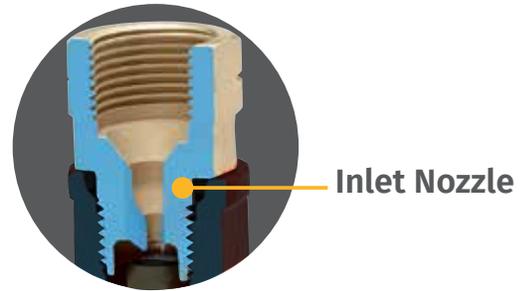


# RegO Regulators

## Installation and Service Tips

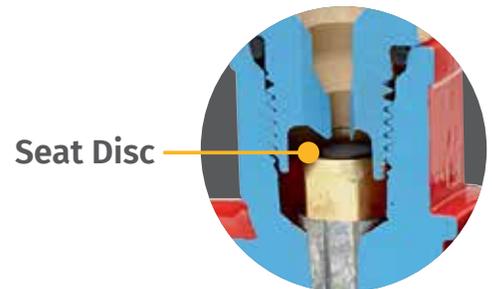
### Why are the inlet nozzles reverse thread?

- Inlet nozzles are reverse threaded to allow for removal and service of the seat disc and inlet nozzle, when debris has affected the regulators performance. The seat disc and inlet nozzle can be cleaned and returned back to normal service.



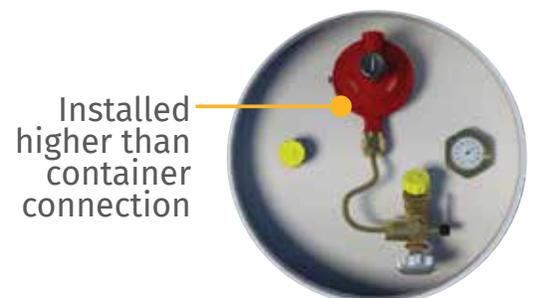
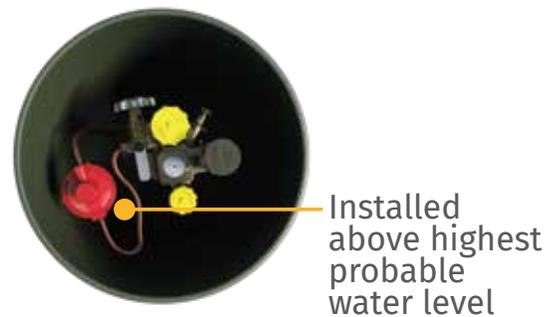
### Regulator Installation Tips

- Ensure your inlet nozzle is tightened securely into the body.
- Use a back up wrench when installing a new regulator to ensure the inlet nozzle does not loosen.
- Install new pigtails when installing a new regulator.
- Do not use excess pipe sealant, as it can move downstream and affect regulator performance.
- Install the regulator 12-18" off the ground and above snow accumulation.
- When regulators are not installed under a protective cover or tank lid, install with the vent pointed vertically downwards.
- If seasonal temperatures periodically reach -20 F, or colder the first stage regulator should not be set higher than 10 PSIG. If they reach -35 F, or colder the setting should not be higher than 5 PSIG.
- Regulator must be vented 5 feet from relief discharge, any source of ignition, or mechanical air intake, and 3 feet minimum from any building opening.
- Regulator vent must be above highest probable water level on underground tank installations.
- When installing regulators at a container connection, ensure the regulator is placed above the container connection to ensure any liquid droplets fall back into the container.



### Regulator Service Tips

- Check regulator vents for obstructions.
- Make sure the vent screen and suppressor are properly in place.
- Ensure your inlet nozzle is tightened securely into the body.
- For high lock-up, or creep, check the inlet nozzle and seat disc for debris. Clean or replace the inlet nozzle and seat disc, reinstall and recheck your lock-up.
- When available use Presto-Tap® gauges for leak checks to avoid any debris moving from the regulators pigtail into the system.
- Make sure the regulator is properly selected for the BTU load and system demand.



# LP-Gas Fueling Nozzle FN Series

## Application

Designed for LP-Gas fueling stations, the FN Series LP-Gas fueling nozzle provides a fast flow rate and low emission on disconnect. The FN Series fueling nozzle only allows gas to flow when it is correctly coupled, no opening is possible when misaligned.

## Features

- Meets 2020 NFPA 58 guidelines
- Quick, safe and reliable
- Light weight and easy to use
- Less emissions when compared to ACME connector
- Nearly identical refueling experience to gasoline or diesel
- Flow rate: up to 13 gpm
- Low maintenance = low running cost
- Safety hold-open latch
- Both latched and unlatched versions are UL Standard
- Fully repairable
- 18 Month manufacturer's warranty
- One hand operation
- 3/4" NPT hose connection
- Can be used with propane, butane and mixtures
- Only allows gas flow when correctly coupled

REGO  
**18**  
MONTH  
WARRANTY



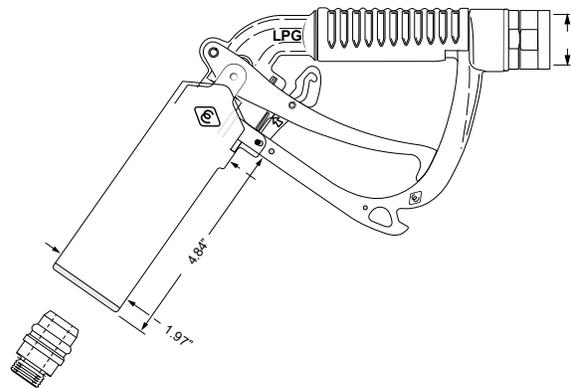
**FN1356**



**FN1000**



FUELING NOZZLE  
FN1356 SERIES



Underwriters Laboratory listed,  
file reference No. MH17142, Vol.  
Meets EN13760/UN R67 / ISO 19825



Designed, tested and marks in  
accordance with ATEX.

Part Number	Flow Rate	Talker	Accessories	
			Nozzle Holster	Talker
FN1356*	13 GPM	Yes	FN1000	FN1300
FN1355*		No		

\* Only available in the US in 2020.

# Grounding Stud 7172 and 7173

## Application

Designed to help prevent static electricity from being generated during the filling process. Used in conjunction with a grounding clamp assembly at a bulk tank facility.

## Features

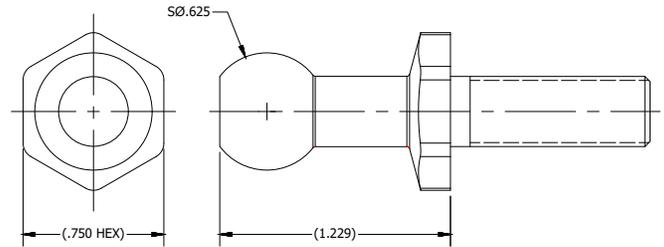
- .625" Rounded Ball stud
- 3/8" or 1/2" Threads available
- Washer and nut included

## Materials

Stud ..... Brass  
 Washer ..... Stainless Steel  
 Nut ..... Stainless Steel



**7171**



Part Number	Thread	"L"
7172	3/8"	1.063
7173	1/2"	



# RegO Internal Valves - Know the Facts.

A better built valve, means lower cost of ownership.

## Better Support Saves You Money

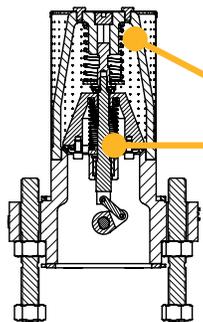
- **10-year warranty** is twice the industry average giving you peace of mind.
- **Largest distributor network** with locations near you and experts to support you.

## Reliable Product Saves You Money

- **Superior design** with features that provide functionality you can count on.
- **Manufacturing excellence** in our factories means every product has consistent quality.
- **100% testing of all products** for proper functional use, for example, leakage, lockup and set pressure. All products are tested at multiple steps in the process from incoming component quality to final assembly.
- **Meet or exceed UL 125 and NFPA 58 standards.**

## Ease of Installation and Service Saves You Money & Time

- **Installations are quick and easy**, available in flanged, double flanged and threaded, the valves may be operated manually by cable, pneumatically electrically or with a rotary actuator.
- **Sizes 1/2" - 4"**
- **Internal valves are serviceable** easily by service personnel.
- **Quality products** mean less service calls from your customers.

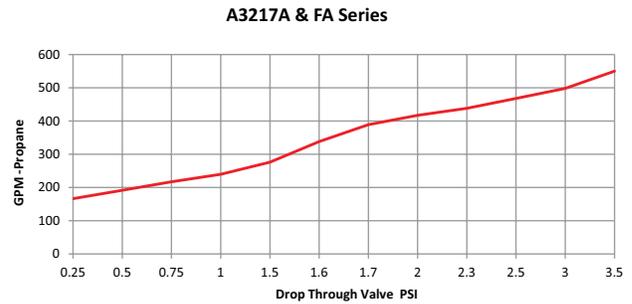


### Machined Excellence

Precision machined stem & housing to allow for accurate guidance of the stem and seat assembly.

## Highest Flow Rate

RegO internal valves have the highest flow rate at the lowest pressure drop. Allowing for a higher downstream pressure and greater flow rate.



Electric Actuation



Rotary Actuation



Pneumatic Actuation



Manual Actuation





### Excess Flow Feature

The excess flow feature will allow for protection to help control discharge of product in the event of complete breakage of pipelines or hose ruptures.

### How to Size Internal Valves

Internal valves are rated in closing flow not rated flow capacity. The closing flow can range from -20% to +10% from what is marked on the body or in the catalog. To provide proven excess flow protection, the flow rating of the pump, piping, valves, fittings and hose on the inlet and outlet sides of the valve must be greater than the flow rating of the valve. Any restrictions that reduce the flow to less than the excess flow valve rating will result in the excess flow valve not operating when required.

### Easy to Service

RegO internal valves are easy to service and come with detailed instruction sheets to get the job done right.



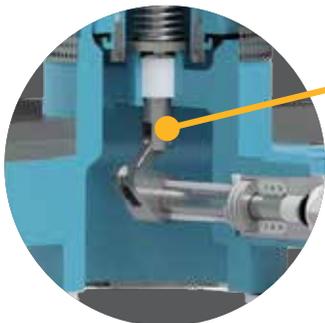
### To select the correct closing flow for the proper application

- Determine the maximum GPM or CFH flow the system will require
- Add 50% to this value and use it to select the appropriate closing flow

Example: 3" Single flanged internal valve needed

$$330 \text{ GPM System Flow} \times 150\% \text{ Sizing Factor} = 495 \text{ GPM Selected Closing Flow}$$

An A3217AR510 would be the proper valve for LPG service. When ordering valves selecting the proper coupling and LPG or NH3 service will allow for the proper closing flow as seen listed below.



### Reliable Service

Sturdy linkage design to allow for optimal movement between the stem and lever arm assembly.

Part Number		Closing Flow GPM, LPM	
Right Position Operating Lever	Left Position Operating Lever	LP-Gas GPM	NH3 GPM
<b>Single Flange</b>			
A3217AR160	A3217AL160	160	145
A3217AR210	A3217AL210	210	190
A3217AR260	A3217AL260	260	236
A3217AR410	A3217AL410	410	372
A3217AR510	A3217AL510	510	459
<b>Double Flange</b>			
A3217DAR160	A3217DAL160	160	145
A3217DAR210	A3217DAL210	210	190
A3217DAR260	A3217DAL260	260	236
A3217DAR410	A3217DAL410	410	372
A3217DAR510	A3217DAL510	510	459

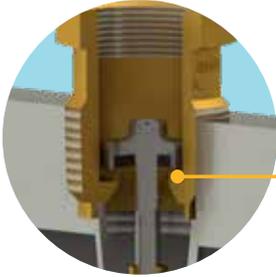




# RegO Pressure Relief Valves - Safe, Reliable, Durable Construction.

RegO Relief Valves are **Made in America and Made to Last.**

Choose RegO for your next decade of worry free operation.



**"Pop-action"** design keeps product loss at a minimum.



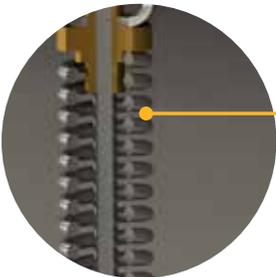
Relief valve designed to automatically reseat firmly after discharge.



Resilient seat disc provides a "bubble-tight" seal.



Single piece cold-headed stem provides more accurate positioning of working parts for more consistent operation and precise adjustment.



Longer spring size designed to minimize stress cracking in service.

## RegO® Relief Valves



## Multiport®, Delta Port™ and DuoPort® Relief Valve Manifolds

Allows for relief valve removal and replacement on a periodic basis without shutting down and evacuating the container.





# Pressure Relief Valve Inspection and Maintenance

Relief valves should be inspected each time the container is filled but no less than once a year. If there is any doubt about the condition of the relief valve, it should be replaced.

## Major Factors that Impact the Service Life of Relief Valves

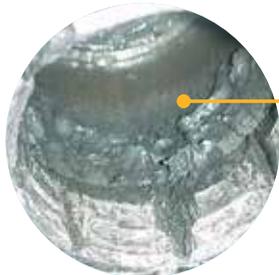
- **Water/Ice Accumulation**
- **Corrosion from environmental factors**
- **Dirt – Debris**
- **Physical Damage**
- **Normal Aging**



**Eye protection** must be worn when performing inspection on relief valves under pressure. Never look directly into a relief valve under pressure or place any part of your body in the relief valve's discharge path.



**Deterioration and corrosion**  
Check for deterioration and corrosion on pressure relief valve spring. Exposure to high concentrations of water, salt, industrial pollutants, chemicals and roadway contaminants could cause metal parts to fail. If the coating on the spring is cracked or chipped, replace the pressure relief valve.



**Water Damage**  
Check protective cap located in valve or at end of pipe away for a secure fit. Protective caps help protect the pressure relief valve against possible malfunction caused by rain, sleet, snow, ice, sand, dirt, pebbles, insects, other debris and contamination. Replace damaged or missing caps at once and keep a cap in place at all times.



**Open weep holes**  
Dirt, ice, paint and other foreign particles can prevent proper drainage from the valve body. If the weep holes cannot be cleared, replace the pressure relief valve.



**Seat leakage**  
Check for leaks in the seating area using a non-corrosive leak detection solution. Replace the pressure relief valve if there are any indication of leakage.

**Physical damage.** Ice accumulations and improper installation could cause mechanical damage. IF THERE ARE ANY INDICATIONS OF DAMAGE, REPLACE THE PRESSURE RELIEF VALVE.

**Tampering or readjustment.** Pressure relief valves are factory set to discharge at specified pressure. If there are any indications of tampering or readjustment, replace the pressure relief valve.

# REGO<sup>®</sup>

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