

Your Squibb-Taylor Distributor:

# **SQUIBB-TAYLOR LP-Gas Equipment**



**MFG by  
PGI INTERNATIONAL**

**CATALOG LP-04**

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## Globe & Angle Valves

## SQUIBB-TAYLOR

Squibb Taylor globe and angle valves are used in bulk plant piping systems, on bobtails and transport trucks, and for filling and vapor return service.

These valves are highly suited for the LP Gas, the anhydrous ammonia, and the chemical and petrochemical industries.

Squibb Taylor globe and angle valves are available in both threaded and flanged connections. Threaded connections are available in 1/2" FNPT to 3" FNPT sizes. Flanged connections are available in 2" and 3" sizes.

Squibb Taylor globe and angle valves are designed for working pressures up to 400 PSI WOG and for operating temperatures from -40 F. to + 160 F

### General Features

#### AL300 "Hi-Flo" Series

- UL Listed for LP Gas and anhydrous ammonia.
- Spring loaded chevron TFE "Vee" packing gives the most effective seal against stem leakage.
- 1/4" FNPT plugged side outlet permits installation of a bleed valve or hydrostatic relief valve.

Self-aligning seat disc retainer rides against stainless steel ball bearings. This allows the seat disc to stop turning as soon as it reaches the valve seat, preventing disc wear and giving long service life.

- Body and handwheel made of ductile iron.
- Bonnet made of steel and ductile iron.
- Teflon or nylon seat discs available for all sizes of globe and angle valves.

#### AL400 "Economy" Series

- UL Listed for LP Gas and anhydrous ammonia.
- One-piece TFE stem seal packing
- Threaded bonnet allows for quick and easy field service.
- Ductile iron body with a steel bonnet.
- 1/4" FNPT side outlet (plugged)

**Note:** To insure long term safe operation, the manufacturer recommends that under normal service conditions all globe and angle valves should be inspected at least once every (5) years and be repaired or replaced as required.



### Ordering Information\*

Inlet & Outlet	"Hi-Flo"				"Economy"			
	Globe	Part Number	Angle	Part Number	Globe	Part Number	Angle	Part Number
1/2" FNPT	AL306P	110250	AL307P	110252	AL410P	110535	AL411P	110540
3/4" FNPT	AL308P	110255	AL309P	110260	AL412P	110555	AL413P	110565
1" FNPT	AL310P	110280	AL311P	110300	-----	-----	-----	-----
1 1/4" FNPT	AL360P +	110333	-----	-----	-----	-----	-----	-----
	AL312P	110320	AL313P	110335	-----	-----	-----	-----
1 1/2" FNPT	AL314P	110355	AL315P	110365	-----	-----	-----	-----
2" FNPT	AL316P	110375	AL317P	110395	-----	-----	-----	-----
2" ANSI Flange	AL316FP	110378	AL317FP	110398	-----	-----	-----	-----
3" FNPT	AL320P	110415	AL321P	110425	-----	-----	-----	-----
3" ANSI Flange	AL320FP	110420	AL321FP	110429	-----	-----	-----	-----

\* For TFE seat discs add T to part number, e.g. AL308PT

+ Lightweight 1 1/4" globe valve with screwed bonnet

# LP-Gas Equipment

## Quick Acting Valves

### Quick Acting Valves

Intended for LP-Gas hose end service, these quick acting shutoff valves are available in globe or angle body styles. Body sizes from 1/2" to 1 1/4".

A special locking clip or a spring actuated locking handle minimizes the chance of accidental opening.

The AL343, AL362, L422, L423 and L424 minimize LP-Gas release when disconnecting by locating the seat disc in the bottom of the filler coupling, saving you money while protecting the environment.

Model	Inlet Size	Outlet Connection	Valve Release
L422	3/4"	POL	1.4 cc
L423	3/4"	QCC	.4 cc
L424	3/4"	1 3/4" F ACME	.2 cc
AL343	1"	1 3/4" F ACME	.6 cc
AL362	1 1/4"	1 3/4" F ACME	.6 cc

Ball bearings in the seat disc assembly allow the entire assembly to rotate when the disc contacts the seat, This helps prevent wear and cutting of the disc, giving longer service life. The operating handle can also be moved to any position without cutting the seat.

Polypak (nitrile) forms the stem seal for an effective seal against leakage with minimal need for maintenance.

Hardened teflon coated stainless steel stem provides longer service life.



AL417P



L423



L422



L424



AL343



AL361

### Ordering Information

Inlet Connection	Outlet Connection	Body Style	Item Number	Part Number
1/2" FNPT	1/2" FNPT	Globe	AL416P	110570
3/4" FNPT	3/4" FNPT	Globe	AL417P	110573
	POL	Angle	L422	110581
	QCC	Angle	L423	110582
	1 3/4" F ACME	Angle	L424	110583
	1" FNPT	1" FNPT	Globe	AL344P
1" FNPT	1" FNPT	Angle	AL345P	110515
	1 3/4" F ACME	Angle	AL343	110525
1 1/4" FNPT	1 1/4" FNPT	Angle	AL361P	110516
	1 3/4" F ACME	Angle	AL362	110517

## Service Valves

**SQUIBB-TAYLOR**

### Liquid Fill

The A1590 consists of a service valve, a filling connection, and an excess flow.

The A1599 consists of a service valve, a filling connection, and a soft seated back check.

### Filling Rate

Service	Differential Pressure, psig					
	5	10	20	30	40	50
LP-Gas	39 gpm	56 gpm	76 gpm	90 gpm	104 gpm	114 gpm

### Liquid Withdrawal

The A1596, A1597, and A1598 valves consist of a service valve and excess flow.

Built in Tri-Gard internal relief, A1596 and A1597, bleeds product back to the tank when hose or piping pressure exceeds tank pressure by 50 psig.

The A1598 has a 1/4" port for installation of a hydrostatic relief valve.

### Liquid Withdrawal Rates

Valve	Withdrawal Rate	Differential Closing Pressure
A1596	35 gpm	psig
A1597	55 gpm	
A1598	55 gpm	

### Vapor or Liquid Service

The AL407 and AL409 are service valves and can be supplied with or without an excess flow valve.

### Ordering Information

Application	Container Connection	Outlet Connection	Filling Connection	Item Number	Part Number
Fill	1 1/4" MNPT	1 3/4" M Acme	1 3/4" M Acme	A1590P	111135
				A1599P	111187
Liquid Withdrawal	1 1/4" MNPT	1" FNPT	-----	A1596R	111185
				A1597R	111190
				A1598P	111180
Vapor or Liquid Service	3/4" MNPT	1/2" FNPT	-----	AL407P	110430
				AL407EP	110435
		3/4" FNPT		AL409P	110480
				AL409EP	110485



A1590P



A1598P



A1597R

## RotaSeal Hose Swivel

The RotaSeal increases freedom of movement to make attaching or disconnecting hose end valves easier. It also prevents twisting of the hose.

Sealed radial ball bearings make rotation torque of the swivel unaffected by pressure in the hose.

Unique TFE Pressure Core seals are **field serviceable**.

Full bore opening of the RotaSeal offers no flow restrictions.

Lightweight yet sturdy enough to withstand rough handling.

400 psi maximum working pressure.



AL111

### Ordering Information

Inlet	Outlet	Item Number	Part Number
3/4" MNPT	3/4" FNPT	AL107	112051
1" MNPT	1" FNPT	AL109	112056
1 1/4" MNPT	1 1/4" FNPT	AL111	112061

## RotaSeal Reel Swivel

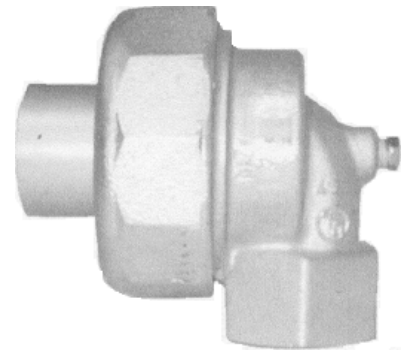
Easy **on the vehicle** seal inspection or replacement.

Seals will not rust in the off season.

Seals that do not require lubrication - ever !

Standard industry dimensions.

Hardened corrosion proof seal face for long trouble-free service



113

### Ordering Information

Inlet	Outlet	Item Number	Part Number
1 1/2" FNPT	1 1/2" FNPT	113	112063

**Excess Flow Valves**

The A1700 series is designed to close when liquid flow exceeds the valve's setting. They are intended to prevent large discharges of LP Gas to the atmosphere due to a break in the hose or piping system. All the valves are of steel construction. **CAUTION: EXCESS FLOW VALVES CLOSE ONLY WHEN RESTRICTIONS DOWNSTREAM OF THE VALVE DO NOT EXCEED THE FLOW RATING OF THE VALVE.**

The excess flow valve's closing flow rating must be *less* than the capacity of the LP-Gas system in which the valve is being used. Allowance must be made for valves, fittings, hose, etc., in determining the capacity of the system. If branches or restrictions with a smaller capacity than the total system are incorporated, additional excess flow valves must be installed at these points.

Manually operate the excess flow valve's poppet before installation to assure parts were not damaged in shipment or blocked with dirt or foreign material.

Use pipe dope on the male threads of the valve or the pipeline. Make sure flow is in the direction of the arrow stamped on the body. Large size valves may require an extra length of pipe on the wrench handle to provide increased installation torque.

The excess flow valve should be checked periodically for corrosion, spring breakage, binding, or other cause why the valve may not function properly and be replaced if any of these conditions are discovered. This must be done by physically inspecting the valve. Make sure system is empty of product before removing.

After an excess flow valve closes, the leakage through the equalizing hole must be controlled or a hazard may be created. For this reason the operator should be familiar with the shutoff valves in the system so that necessary precautions can be taken in an emergency.

**A RESTRICTION UPSTREAM OF AN EXCESS FLOW VALVE THAT DOES NOT ALLOW A FLOW EQUAL TO THE VALVE FLOW RATING WILL NOT ALLOW THE VALVE TO ACTUATE REGARDLESS OF A BREAK DOWNSTREAM OF THE VALVE.**

**See instruction manual and bulletin 7.96 for proper valve operation**

**Ordering Information**

Application and Body style	Inlet Connection	Outlet Connection	UL Closing Flow LP-Gas	Closing Flow Differential Pressure *	Item Number	Part Number
Tanks or In Line (Style A)	2" MNPT	2" FNPT	110 gpm	6.5 psig	AL1717	111380
	2" MNPT	2" FNPT	101 gpm	6.5 psig	AL1710	111356
Tanks or In Line (Style B)	1 1/4" MNPT	1 1/4" FNPT	53 gpm	6 psig	AL1706	111340
	3" MNPT	2" MNPT	239 gpm	7 psig	AL1715	111382
Tanks or In Line (StyleC)	2" MNPT	2" MNPT X 1 1/4" FNPT	101 gpm	6.5 psig	AL1711	111361
	3" MNPT	3" MNPT X 2" FNPT	239 gpm	6 psig	AL1713	111365

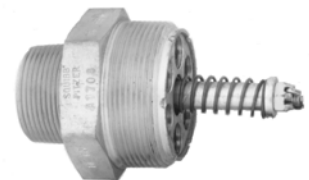
\* At 100 psig inlet discharging to atmosphere



AL1717 Style A



AL1710 Style A



A1715 Style B

## Soft Seated Back Check Valves

Back check valves allow flow in only one direction and are normally closed. Back checks restrict the escape of tank contents in the event of accidental breakage of the piping or fittings. They are installed in liquid filling connections, on stationary storage tanks, bobtail delivery trucks, transports, and liquid transfer lines.

The A1700 series are UL Listed for LP-Gas and come with soft seats. If the soft seats wears, a metal to metal seat will continue to check the line, allowing slight leakage after closure.

*The soft seat construction assures a bubble tight shutoff, downstream piping can be depressurized for maintenance or repair without leakage.*

The stem is threaded into the check disc and secured by “radial riveting” insuring the disc stays with the valve.

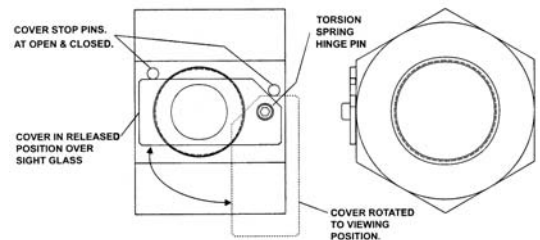


A1728

## Ordering Information

Application	Inlet	Outlet MNPT	Item Number	Part Number
Tanks	3/4" FNPT	3/4"	A1725	110383
	1 1/4" FNPT	1 1/4"	A1727	111385
	2" FNPT	2"	A1728	111390
	3" FNPT	3"	A1729	111395
Tanks and Inline	2" MNPT	2"	A1733*	111400

\* Metal to metal seat.



## Sight Glass Safety Fitting - Always “Inspect What You Except”

Inspect in line back checks and excess flow valves while product is flowing

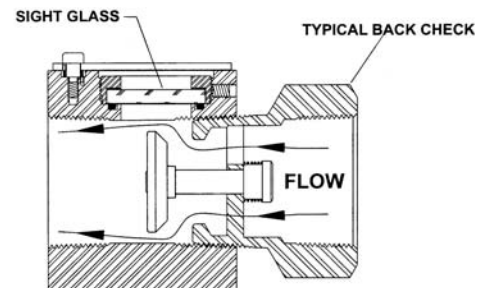
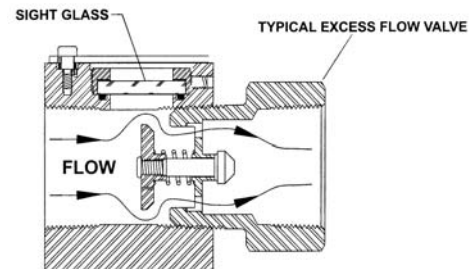
Same flow rate as a standard coupling.

Field replaceable sight glass.

Tempered lime glass for maximum strength.

Spring return sight glass cover, always covers the sight glass when released.

UL tested to 2000 psi.



## Ordering Information

Part Number	Item Number	Description
A1742	111401	2" Sight Glass Safety Fitting
A1743	111402	3" Sight Glass Safety Fitting

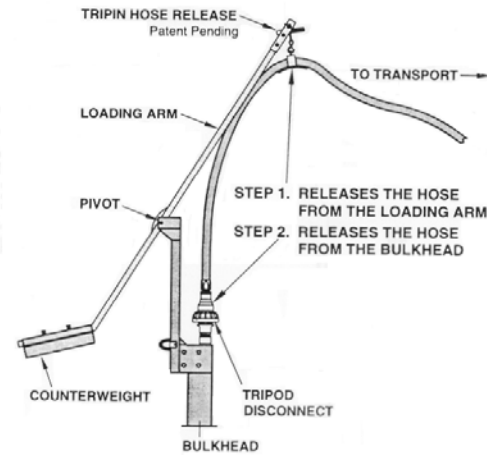
## Bulkhead Pullaway Tripods and Tripin Assembly

The Bulkhead Tripod is designed to provide pullaway protection for the bulk plant and transport unloading bulkhead. Double back check permits closure in both sections of the coupler, minimizing NH3 release at the bulk plant and the transport.

Release mechanism unaffected by a pullaway, easily reconnected for years of continued service.

Stainless steel construction throughout and TFE back check seats for long, dependable operation.

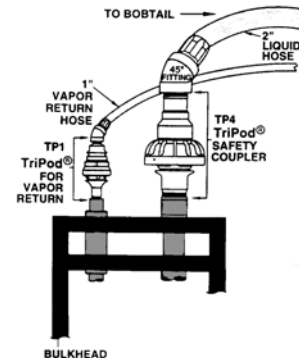
### STYLE 1: TRIPIN™ LOADING ARM



Inlet	Outlet	Capacity	Item Number	Part Number
1" MNPT	1" MNPT	55 GPM	TP-1-1001	113053
1" MNPT	1" MNPT	77 GPM	TP-2-1001	113054
1 1/4" MNPT	1 1/4" MNPT	126 GPM	TP-3-1001	113061
3" MNPT X 2" FNPT	3" MNPT X 2" FNPT	350 GPM	TP-4-1001	113065

Tripin Loading Arm Assembly with Tripods	113011
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### STYLE 2: BASIC CONFIGURATION



## LP-Gas Dispenser Tripods

The TP-0 Tripod is designed to provide protection against gas escape at motor fuel dispensers, should a vehicle pull away with the hose connected. Back checks in both halves are designed to close when tripod separates protecting both the dispenser and the vehicle.

Dispenser Tripods are designed to provide protection between the dispenser and the storage tank. Back checks in both halves are designed to close when the tripod separates protecting both the dispenser and the storage tank.

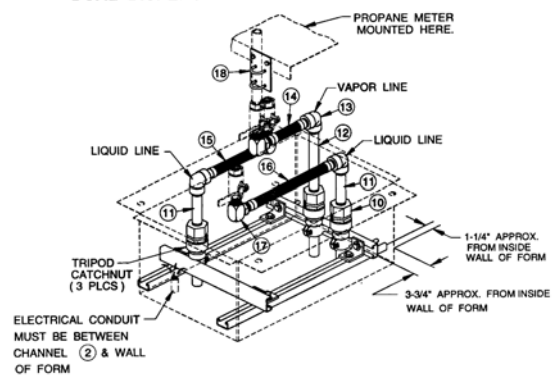
Dispenser tripods protect both liquid and vapor lines.

## Ordering Information

Inlet Connection	Outlet Connection	Capacity Propane	Item Number	Part Number
3/4" FNPT	3/4" FNPT	25 gpm	TP-0	113045

Description	Part Number
TP-0 Single Hose Dispenser Kit	113067
TP-0 Single Hose Dispenser Kit	113070

### DUAL DISPENSER



# LP-Gas Equipment

# Liquid Vent Valves, Hose Couplings & Caps

## Liquid Level Vent Valves

Liquid level vent valves are intended for large bulk storage tanks where the valve is installed at the maximum filling level. Steel construction allows use on either LP-Gas or Anhydrous Ammonia service. Two 1/4" FNPT side outlets permit use of a liquid level vent valve and a pressure gauge.

### Ordering Information

Description	Item Number	Part Number
3/4" MNPT container connection with Two 1/4" FNPT side outlets.	AL404	110437
Same as AL404 except vent valve and pressure gauge included, for LP-Gas service.	AL404-2	110439
Same as AL404 except vent valve and pressure gauge included, for Anhydrous Ammonia service.	AL404-1	110438



AL404

## Reusable Hose Couplings

Coupling Style	Size	Hose I.D.	Item Number	Part Number
Standard (Style A)	1/2" MNPT	1/2"	100 - 1/2	117284
	3/4" MNPT	3/4"	100 - 3/4	117290
	1" MNPT	1"	100 - 1	117296
Swivel Type (Style B)	1 3/4" F. Acme	1/2"	101	117308
		3/4"	102	117310
		1"	103	117316



Style A



Style B

## Female Acme Caps

### Ordering Information

Female Acme	Plastic		Steel	
	Item Number	Part Number	Item Number	Part Number
1 3/4"	A2080C	111580	-----	-----
	A2080C +	111585	-----	-----
	-----	-----	A1152C *	110680
2 1/4"	ST-1177C	111586	A1175C S *	110696
3 1/4"	-----	-----	A1176CS *	110701

\* Includes chain and hook + Includes strap



A2080C



A1152C



A1176

## Adaptors & Filler Couplings

**SQUIBB-TAYLOR**

### Male Acme x MNPT

Male Acme Connection	FNPT Connection	Item Number	Part Number
1 3/4	1/2"	A200	111415
	3/4"	A2001	111420
	1"	A2002	111425
	1 1/4"	A2003	111430
2 1/4	1"	A2059	111537
	1 1/4"	A2060S	111539
3 1/4	2"	A2063S	111546
	3"	A2065S	111556



Male Acme x MNPT



Male Acme x FNPT



Male Acme x Male Acme

### Male Acme x FNPT

Male Acme Connection	FNPT Connection	Item Number	Part Number
1 3/4	3/4"	ST-M526-6	150571
	1"	A2013	111465
3 1/4	2"	A2074S	111561
	3"	A2075S	111566



A1151F



A1157FS

### Male Acme x Male Acme

Male Acme Connection	FNPT Connection	Item Number	Part Number
1 3/4	1 3/4	A2005S	111436
2 1/4	2 1/4	A2007S	111446
3 1/4	3 1/4	ST-M536-26	122107



A1131F

### Filler Couplings

Coupling Style	Female Acme	Inlet Connection	Length	Item Number	Part Number
Standard	1 3/4"	1/2" MNPT	3 1/8"	A1149F	110665
		3/4" MNPT		A1150F	110670
		1" MNPT		A1151F	110675
Heavy Duty	2 1/4"	1 1/4" MNPT	3 11/16"	A1156FS	110684
	3 1/4"	2" MNPT	2"	A1157FS	110686
Extension	1 3/4"	3/4" MNPT	7 3/16"	A1130F	110640
		1" MNPT		A1131F	110645
	2 1/4"	1 1/4" MNPT		A1132F	110650

## PR-4 Passive Shutdown System

The passive PR-4 device is intended for installation on a standard 2" transfer hose so that the hose will then comply with DOT 49CFR173.315 standard for passive shutdown devices required on certain MC 330 and MC 331 transports.

The entire system is contained on the transport hose.

Simple installation can be done by people in your shop.

Buy it once, move to any hose in the future at little or no additional cost.

Made entirely of corrosion resistant materials for super long life.

Compact and light-weight, weighs just 6 pound and adds 8" to the hose.

Fail safe design, cannot be operated incorrectly

Operating Range: -50°F to +250°F, 0 psi to 400 psi

Flows 409 gpm LPG at 70 psi differential pressure.

System does not place any harmful internal loads on the hose.

Unlike other mechanical systems, you can actually test this system for proper operation and have confidence that it will work when needed.

Operating principal is totally mechanical which eliminates the problems associated with pressure based systems.



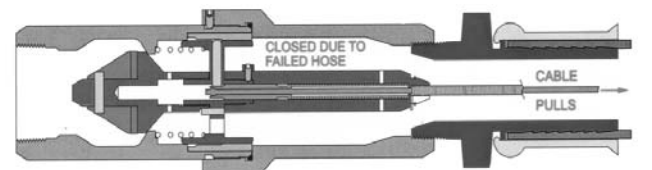
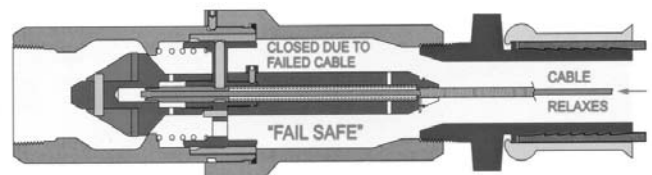
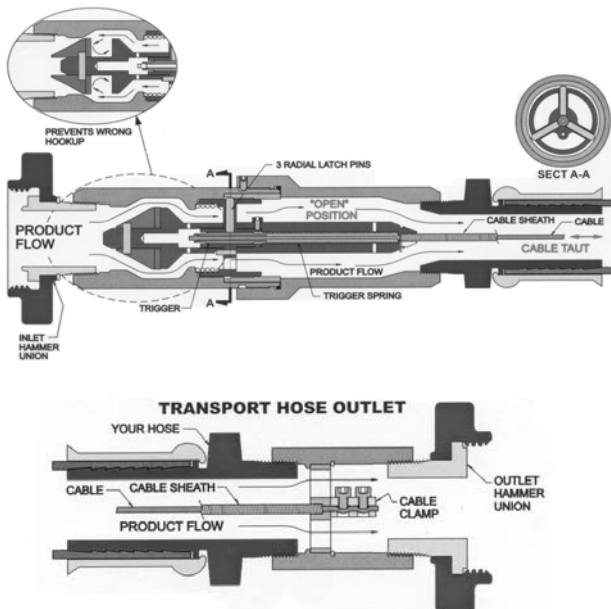
Transport Hose  
Inlet Side



Transport Hose  
Outlet Side

### Ordering Information

Description	Item Number	Part Number
PR4 Passive Shutdown System	PR4-1000	113500
PR4 Cable Extension Kit	PR4-0023	113510



**RSD Remote Shutdown and Control for Bobtail Trucks**

**Flexible High End Modular Design For Minimal Installation Time**

Squibb-Taylor is now offering a highly reliable modular shutdown system for bobtail delivery trucks. The six function RSD-6 offers PTO, throttle, hose reel unwind, and an auxiliary channel, in addition to the emergency shutdown and query features of the RSD- 2.

**Transmitter Features:**

- Powerful FM modulated and easily capable of 300 foot range
- Weatherproof, extremely rugged
- Active battery test indication with every transmission
- Operates on two AAA standard alkaline batteries
- Weighs only 5.6 oz and easily adapts to pouch/belt carriers
- Individual security codes assure reliable interference free operation of only intended receiver(s)

**Receiver Features:**

- “Latching” emergency shut-down requiring system reset after activation
- Can learn up to 15 different transmitters
- User enable/disable “Query” feature available to insure driver possession of transmitter at all times {Patent Pending}
- Remote bracket-mounted antenna
- External system status indicator

**RSD Dual-Function or Multi-Function Safety Systems Non-Modular Economical Design**

RSD systems provide high-end design, feature, reliability at low-end prices.

Every system is equipped with the Hands On query feature, whether you use it or not. It enables you to turn on the Hands On timer based on any mechanical, electrical or pneumatic event on the vehicle. Typically it is turned on only when product transfer operations to guarantee that the shutdown transmitter is carried by the driver and that it is in working order.

**RSD-BV1 Manual Tank Valve Remote Shut-down Actuator**

- Mounts in line with your manual tank valve emergency shut-off system
- Generates over 55 pounds of cable force for extremely reliable operation.
- Designed and built rugged to last in the harshest of environments
- Unique bracket design allows attachment on top, side or bottom of mounting surface.

**RSD-2 Kit**



**2 Function Transmitter**



**6 Function Transmitter**



**RSD-BV1**

# LP-Gas Equipment

## Hose Buddy & Spare Parts

### Hose Buddy

The Hose Buddy protects 2" delivery hose from abrasions, which occur during the unloading process.

Attach 2 or 3 Hose Buddies to your delivery hose, thus preventing holes being worn in the cover caused by contact with concrete, gravel or any abrasive surface.

Easily transferable from hose to hose.

Made from a polyurethane plastic which carries a lifetime warranty.



**Without  
Hose Buddy**

**With  
Hose Buddy**

### Valve Repair Parts

For Valve Part Numbers	Repair Kit	Part Number	Bonnet Assembly	Part Number	Stem & Disc Assembly	Part Number	Handle Assembly	Part Number
AL308, AL309, A1570, A1571, A1572, A1574, A1578	308-22	119039	308-25	119040	308-26	119041		
AL310,AL311,AL477,AL478,AL487, A1590,A1591,A1592,A1596,A1597, A1598, A1599	310-22	119059	310-25	119060	310-26	119061		
AL312, AL313	312-22	119109	312-25	119110	312-26	119111		
AL314, AL315	314-22	119125	314-25	119126	314-26	119127		
AL316, AL316F, AL317, AL317F	316-22	119169	316-25	119170	316-26	119171		
AL320, AL320F, AL321, AL321F	320-22	119217	320-25	119218	320-26	119219		
AL342, AL343,, AL362	343-22	119360	343-25	119335	343-1700	119333	340-1300	119359
AL344, AL345, AL361	344-22	119361			340-1200	119221		
AL407, AL409, A1556	407-21	119255	407-25	119257	407-23	119256		
AL410, AL411, AL412, AL413	410-21	119279	410-25	119281	410-23	119280		
AL416, AL417			417-25	119290			417-1400	119291
AL479	479-22	119300	479-25	119303	479-1300	119304		
1105-25, A1578, A1592	1105-22	119357						
A1415, A1416	1415-7	119376						

### Rota-Seal Repair Kits

Item Number	Part Number	Description	For Use On
107-0022	112052	Repair Kit	AL107
109-0022	112057		AL109
111-0022	112062		AL111