RegO Multivalve® Assemblies

General Information

RegO Multivalves® were pioneered in the 1930's. By combining several valve functions in one unit, Multivalves® made possible new and more practical tank designs (fewer openings and smaller, less cumbersome protective hoods). They received immediate acceptance.

The Multivalve® design has kept pace with changing industry needs over the years. They are as popular as ever; still keeping fabricating costs down and reducing operating expenses for the LP-Gas dealer.

RegO Multivalves® Reduce the Cost of Fabrication by

- Combining several valve functions in one less expensive body.
- · Reducing the number of threaded openings in ASME containers.
- · Diminishing the size and cost of protective hoods.
- Providing generous sized wrenching bosses for quick, easy installation.

RegO Multivalves® Reduce LPG Dealer Expenses by

- Permitting on-site filling of 100 lb. to 420 lb. DOT cylinders, thus eliminating cylinder return and interrupted customer service.
- · Providing well-placed hose connections for easy filling.
- Allowing ample space for secure attachment and easy removal of the regulator.
- Providing substantial savings of bonnet repairs on valves with the MultiBonnet.[®]

RegO Multivalves® Satisfy Customer Demands for Tough, Safe Equipment with These Features

Heavy-Duty Valve Stem Seals -

 Tapered nylon disc in a fully confined seat resist deterioration and provide hand-tight closings over a long service life.

Comprehensive Testing —

- Every Multivalve® must pass a stringent underwater leakage test prior to shipment.
- Multivalves® with pressure relief valves are individually tested and adjusted to assure proper pressure settings.
- Those equipped with excess flow checks are tested for compliance with published closing specifications and for leakage after closing.

Pressure Relief Valves and Other Devices -

 Multivalves® equipped with integral pressure relief devices employ full-capacity, "pop-action" reliefs with set pressures of 250 psig for ASME use and 375 psig for DOT cylinders.

Double Back-Check Filler Valves -

Multivalves® with filling connections have double backcheck safety.
 If the upper check ceases to function, the lower stand-by check will continue to protect the filling connection from excessive leakage.

Fase of Maintenance —

 Standardization of parts makes it possible for one repair kit to maintain the bonnet assemblies of RegO® cylinder valves, service valves, motor fuel valves, and Multivalves®.

RegO Multivalves® fit every LP-Gas need.

- Wide selection of Multivalves® for domestic, commercial, and industrial needs are available.
- Multivalves® may be ordered with pressure relief, liquid level tube, filler valve, vapor equalizing valve, internal pipe connections, liquid filling and withdrawal connections, and ¼" NPT tapped opening for pressure gauge with or without steel plug.

Design Features of RegO Multivalves®

Seal Cap

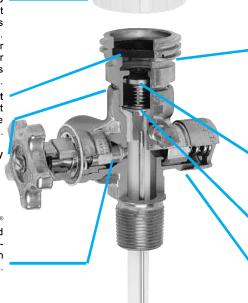
Molded from tough, resilient plastic to protect threads and internal working parts. Designed to protect the filler opening against dirt and other foreign materials. Also acts as a secondary pressure seal.

Long Wearing Gasket Permits leak-free, hand-tight connection of the hose coupling to the filler valve.

Forged Brass Body

MultiBonnet®

Designed to allow quick and easy repair of bonnet packings on Multivalves® on active propane systems.



UL Shear Point

Provides for a shear just below the ACME threads to protect the container in case of a pullaway while the hose is connected. The ACME connection should shear off on an angle pull, leaving the body and check assembly of the valve still in place.

Filler Seat Disc

Fabricated of special synthetic composition and made extra thick for longer life.

Valve Guide

A precision machined "stem" to assure positive alignment

"Pop Action" Pressure Relief Provides quick release of excess pressure. Relief seat disc is special resilient composition rubber designed to resist bonding to the valve seat even after years of service.

RegO MultiBonnet® Assemblies

Design Features of the MultiBonnet®

Handwheel

Aluminum die cast handwheel.

Non-Rising Stem

Designed to allow easy backseating and long service life.

Upper Packing Assembly

Contains both internal and external o-rings.

Provides leak resistant performance.

Internal O-ring

Lower Bonnet and Stem Assembly Machined brass construction offers durability to bonnet design.

External O-ring

Nameplate

Provides easy identification of the RegO MultiBonnet®

Teflon Backseat

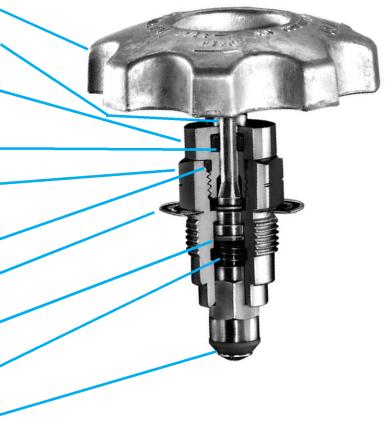
Provides for upper packing isolation when valve is fully open.

Machined Double Lead Threads

Provides for quick opening and closing of the valve.

Shut-off Seat Disc

Tapered nylon disc is retained in a fully confined seat that helps ensure positive shut-offs.



Application

The MultiBonnet® is designed to allow quick and easy repair of bonnet packings in certain Multivalves® and service valves on active propane systems. It allows you to repair valve bonnet stem o-ring leaks in minutes, without interrupting gas service to your customers.

- Eliminates the need to evacuate tanks or cylinders to repair the MultiBonnet[®] packing.
- Two section design allows repair of MultiBonnet® assemblies on active propane systems without interruption in gas service or shutting off appliances downstream. This helps to prevent time consuming relighting of pilots, special appointments, and call backs.
- Cost of replacing the MultiBonnet® packing is only 1/3 as much as

- replacing a complete bonnet assembly—not including time cost savings, which can be substantial.
- Available on certain new Multivalves® and service valves as well as repair assemblies for many existing RegO® valves.
- UL listed as a component of valve assembly.

Here's How The MultiBonnet® Works

- When the valve is fully open, only the lower stem will rise and backseat against the teflon washer which isolates the upper packing.
- This allows you to remove the upper packing nut, which contains the o-rings, and replace it while the valve is fully open and gas service not interrupted.

ASME Multivalves® for Vapor Withdrawal

These Multivalves® are designed for use in single opening ASME containers equipped with a $2\frac{1}{2}$ " M. NPT riser. They can be used with underground ASME containers up to 639 sq. ft. surface area, and above ground ASME containers up to 192 sq. ft. surface area. A separate opening is required for liquid withdrawal. The MultiBonnet® is standard on this valve. The MultiBonnet® allows quick and easy repair of bonnet.

		Approximate Filling Rate Liquid Flow, GPM Pressure Drop Across Valve							
Part Number	10 PSIG	25 PSIG	50 PSIG	100 PSIG					
G8475RV	42	72	98	125					
G8475RW	42	12	90	125					



	Container Connection			Vapor Equalizing Connection		Float	Fixed Liquid	Liquid		Pressure Re	For use in			
Part Number		Service Connection	Filling Connection		UL	Guage Flange	Level Vent	Dip Tube			Flow Capacity		conatiners w/ surface are	
Number				Size Closin	Listed Closing Flow	sing Opening	Valve Style	Length	Setting	Part Number	UL	ASME	up to:	
											2020 SCFM, air	1939 SCFM, air	83 sq ft. above ground	
G8475RV	2 1/2"	F. POL	1 3/4"	1 1/4"	4200 CFH	Fits "JUNIOR"	Knurlad	30"*	250	M3131G			276 sq. ft. under ground	
	F. NPT	(CGA 510)	M. ACME		@ 100 PSIG	size		ed 50 °	PSIG		3995		192 sq. ft. above ground	
G8475RW										MV313269	SCFM, air	n/a	639 sq. ft under ground	

^{*}Dip tube not installed, may be cut by customer to desired length.

ASME Multivalves® for Vapor Withdrawal

These Multivalves® provide vapor withdrawal and filling of ASME containers. A separate pressure relief valve is required in addition to this valve. The MultiBonnet® is standard on this valve. MultiBonnet® allows quick and easy repair of bonnet.

	Approximate Filling Rate Liquid Flow, GPM									
		Pressure Drop Across Valve								
Part Number	10 PSIG	25 PSIG	50 PSIG	100 PSIG						
8593AR16.0	42	72	98	125						



				Vapor Ed Conne		Fixed		For Use In
Part Number	Container Connection	Service Connection	Filling Connection	Connection Size	UL Listed Closing Flow	Liquid Level Vent Valve Style	Dip Tube Length	Containers w/ Surface Area Up To:
8593AR16.0	1½" M. NPT	F. POL (CGA 510)	1³¼" M. ACME	1¼" M. ACME	4200 CFH at 100 PSIG	Knurled	16"*	**

^{*} Dip tube not installed, may be cut by customer to desired length.

^{**} Since these Multivalves® have no integral pressure relief valves, they can be used on any ASME container with an independent relief device sufficient for that tank's capacity.

DOT Multivalve® for Liquid Withdrawal

These Multivalves® permit liquid withdrawal from DOT cylinders with up to 100 lbs. propane capacity. They eliminate unnecessary cylinder handling when servicing high volume loads and allow on-site filling into the vapor space without interrupting gas service.

	Approximate Filling Rate Liquid Flow, GPM								
		Pressure Drop Across Valve							
Part Number	10 PSIG								
8555DL11.6	8	23	34	42					



Part Number	Container Connection	Service Connection	Filling Connection	Fixed Liquid Level Vent Valve Style	Dip Tube Length w/ Deflector	Liquid Withdrawal Tube Length	Pressure Relief Valve Setting	For Use In Cylinders w/Propane Capacity Up To:	Liquid Closing Flow (LP-Gas)***
8555DL11.6	³¼" M. NGT	CGA 555*	13⁄4" M. ACME	Knurled	11.6"	44"	375 PSIG	100 lbs. **	1.7 GPM

^{*} Use adapter 12982 to connect to pipe threads.

DOT Multivalves® for Vapor Withdrawal

These Multivalves® permit vapor withdrawal from DOT cylinders with up to 200 lbs. propane capacity. They allow on-site cylinder filling without interrupting gas service. The MultiBonnet® option allows quick and easy repair of bonnet.

	Approximate Filling Rate Liquid Flow, GPM								
	Pressure Drop Across Valve								
Part Number	10 PSIG	25 PSIG	50 PSIG	100 PSIG					
8555D Series 8555R Series	8	23	34	42					



			For Use In						Pressure Relief Valve		
Part			Containers with Size Up	Dip Tube Length	Container	Service	Filling	Fixed Liquid Level Vent		Flow Ca	pacity*
Number	Bonnet Style	Application		w/Deflector	Connection	Connection	Connection	Valve Style	Setting	UL Listing	ASME
6555R10.6	MultiBonnet®	ASME	25 ft ² surface 10.6"								
6555R11.6	MultiBonnet®				11.6"					250 PSIG	793
6555R12.0	MultiBonnet®	Containers	gallons water capacity	12.0"	3/4"	F. POL (CGA 510)	1¾" M. ACME	Knurled		SCFM, air	SCFM, air
8555D10.6	Standard			10.6"	M. NGT						
8555R10.6	MultiBonnet®	DOT	200 lbs.	10.6					375 PSIG	n/a	n/a
8555D11.6	Standard	Cylinders	Propane **	11.6"					3/3/3/6	11/4	11/d
8555R11.6	MultiBonnet®										ı

^{*}Per CGA Pamphlet S-1.1.

^{**} Per CGA Pamphlet S-1.1.

^{***} To ensure proper functioning and maximum protection from integral excess flow valves, the cylinder valve should be fully opened and backseated when in use.

DOT and ASME Multivalves® for Vapor Withdrawal

These Multivalves® permit vapor withdrawal from ASME containers up to 50 sq. ft. surface area and DOT containers up to 420 lbs. propane capacity. They allow on-site cylinder filling without interrupting gas service. The MultiBonnet® option allows quick and easy repair of bonnet.

	Approxim	ate Filling R	ate Liquid	Flow, GPM					
	Pressure Drop Across Valve								
Part Number	10 PSIG	25 PSIG	50 PSIG	100 PSIG					
6532A12.0/6532R12.0	11	16	23	28					
6542A12.0/6542R12.0	23	32	46	57					
6533A10.5/6533R10.5 6533A11.7/6533R11.7	11	16	23	28					
6543A11.1/6543R11.1	23	32	46	57					
6543A11.7/6543R11.7		"		"					



Part Number	Bonnet Style	Application	Container Connection	Service Connection	Filling Connection	Fixed Liquid Level Vent Valve Style	Dip Tube Length with Deflector	Pressure Relief Valve Setting	For Use In Cylinders w/Propane Capacity Up To:**	For Use In Containers w/Surface Area Up To:***
6532A12.0	Standard		3⁄4" M. NGT		1¾"					43 sq. ft.
6532R12.0	MultiBonnet®	ASME*	74 IVI. ING I				12.0"	250		45 Sq. 11.
6542A12.0	Standard	ASIVIE	1" M. NGT	F. POL			12.0	PSIG	-	53 sq ft.
6542R12.0	MultiBonnet®		1 101.1101							55 s q it.
6533A10.5	Standard		3⁄4" M. NGT			Knurled	10.5"			
6533R10.5	MultiBonnet®]					10.5			
6533A11.7	Standard		74 IVI. ING I	(CGA 510)	M. ACME		11.7"			
6533R11.7	MultiBonnet®	DOT					11.7	375	420 lbs.	
6543A11.1	Standard						11.1"	PSIG	Propane	-
6543R11.1	MultiBonnet®		1" M. NGT				11.1			
6543A11.7	Standard		I WI. NGT				44.7"			
6543R11.7	MultiBonnet®						11.7"			

- * UL rated flow capacities are: 6532A12.0-1180 SCFM/air, 6542A12.0-1530 SCFM/air.
- ** Per CGA Pamphlet S-1.1.
- *** From NFPA, Appendix D.

ASME Multivalves® for Vapor Withdrawal

These compact Multivalves® are especially suited for vapor withdrawal of ASME containers where compact groupings of components are necessary. Separate filler valves and pressure relief valves are required. MultiBonnet® allows quick and easy repair of bonnet.



				qualization lection	Fixed Liquid	Dip	For Use In Containers
Part Number	Container Connection	Service Connection	Connection Size	UL Listed Closing Flow	Level Vent Valve Style	Tube Length	w/Surface Area Up To:
7556R12.0	3⁄4" M. NGT	F. POL (CGA 510)	1¼" M. ACME	4200 CFH @ 100 PSIG	Knurled	12"	*

^{*} Since these Multivalves® have no integral pressure relief valves, they can be used on any ASME container with an independant relief device sufficent for that tank's capacity.

