

Multiport™ Pressure Relief Valve Manifold Assemblies for Large Storage Containers A8560, A8570 and AA8570 Series

Application

Designed especially for use as a primary relief device on large stationary pressurized storage containers with flanged openings. These manifolds incorporate an additional relief valve, not included in the flow rating, allowing for servicing or replacement of any one of the relief valves without evacuating the container. The handwheel on the manifold selectively closes off the entrance port to the relief valve being removed while the remaining relief valves provide protection for the container and its contents. All manifold flow ratings are based on flow through the relief valves after one has been removed for service or replacement.

Features

- Allows for relief valve removal and replacement on a periodic basis without shutting down and evacuating the container.
- “Pop-action” design of relief valves insures maximum protection with only minimal product loss at moderately excessive pressures.
- A rubber plug with chain is provided to protect manifold outlet threads where the relief valve has been removed.
- May be mounted directly to a welding neck flange or manhole cover plate. Requires no inlet piping.
- Relief valves designed to automatically reseal firmly after discharge.
- Resilient relief valve seat disc provides “bubble-tight” seal.
- Relief valves are ASME rated for use with LP-Gas and anhydrous ammonia.



Materials

Body Ductile Iron
 Resilient Parts Teflon
 Clapper Disc Stainless Steel
 Bleeder Valve Stainless Steel

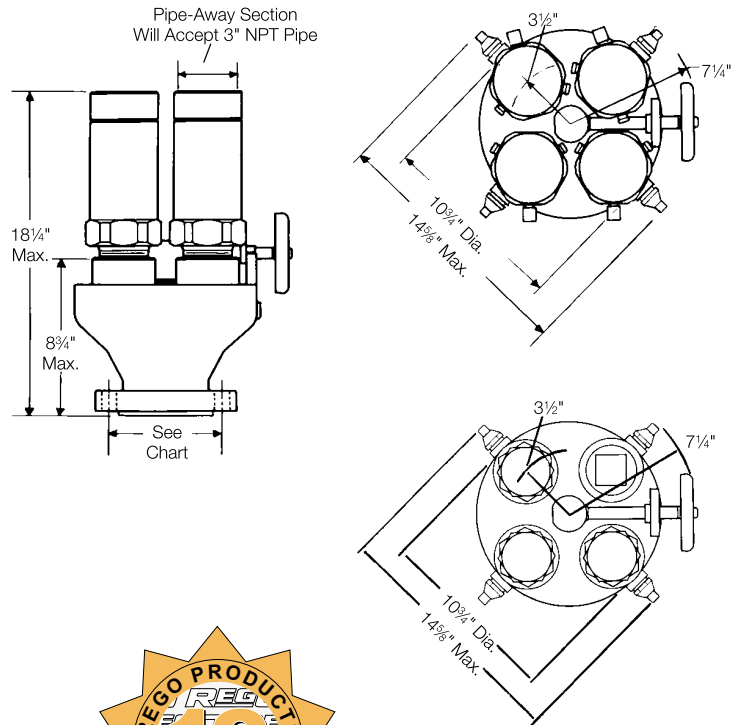
Bolt Stud and Nut Assemblies

Part Number	Consists of	For Use With:	For Connection To:	Number Required
7560-55	1-Bolt Stud and Nut	All RegO Multiports™	Modified 3" - 300# and 4"-ASA 300# Welding Neck Flange	8
7560-56			Manhole Cover Plate	

Relief Valve Materials

Description	A8563, A8564, A8573, A8574
Body	Upper Cold Rolled Steel Lower Ductile Iron
Liner	Stainless Steel
Spring Guide	Stainless Steel
Spring	Coated Steel
Seat Disc	Resilient Synthetic Rubber

*A special coating is applied to the inlet threads to minimize possibility of electrolytic action.



Typical RegO Multiport™ Pressure Relief Valve Manifold

RegO® Pressure Relief Valve
"Pop-action" insures maximum protection with only minimum fluid loss at moderately excessive pressures.

Weep Hole Deflector
Port design of deflector prevents any ignited fluid ejected from the weep hole, while the relief valve is functioning, from impinging on the storage container or adjacent piping and equipment.

Resilient Seat Disc
Assures positive shut-off.

Manifold Seat Ring
Has integral teflon seat ring for positive shutoff of valve port by clapper disc.

Instruction Plate
For relief valve replacement.

Plug Assembly
Protects manifold outlet threads and keeps foreign material out of manifold when relief valve is removed for retest.



Safety Groove Excessive stress on vent piping attached to relief valve will break valve body at this point, leaving valve fully operative.

Handwheel
Large, heavy duty handwheel has raised port numbers for selective positioning of clapper disc. Raised "arrow" below handwheel indicates exact position of clapper disc at all times.

Clapper Disc
Shown in position to remove relief valve. Normally, clapper disc is positioned between any two relief valves.

Bleeder Valve
Shown in "closed" position to bleed off pressure trapped between relief valve and clapper disc prior to removal of relief valve.

Ductile Iron Body
Rugged. Has corrosion resistant lacquered finish.

Flanged Tank Connection
Available with either a modified ASA 3" (4" port opening) or a 4" ASA 300# flanged connection. Mates respectively with modified ASA 3", 300 lb. flat face steel flange and ASA 4" 300 lb. 1/16" raised face steel flange.

Spacious Manifold Port
Passages Large unobstructed throat assures minimum capacity loss. Manifold is bolted directly to storage container opening, eliminating any restrictions.

Gasket
Johns-Manville Spirotallic flange gasket furnished with each manifold assembly.

Flange Dimensions

Manifold Series	Flange Size	Flange Drilling	Port Diameter	Flange Gasket
A8560	Modified 3" 300# (4" Port Dia)	(8) 7/8" Bolt Holes on a 6 5/8" Bolt Circle Diameter Flat Faced.	4"	3" 7564-48
A8570 AA8570	4" ASA 300#	(8) 7/8" Bolt Holes on a 7 1/8" Bolt Circle Diameter 1/16" Raised Faced.	4"	4" 7565-48



Ordering Information

Part Number	Start To Discharge Setting PSIG	Application		Container Flange Connection	Relief Valve				Flow Capacity SCFM/Air** At 120% of Set Pressure		
		LP-Gas	NH ₃		Quantity	Part Number	Inlet Connection M. NPT	Accessories	UL Rating	ASME Rating	
A8563G	250	Yes	Yes	3"-300#*	3	A3149MG	2 1/2"	****	18,500 (2)	Not Applicable	
A8564G					4				27,750 (3)		
A8573G				3	18,500 (2)						
A8574G				4	27,750 (3)						
A8563AG				3"-300#*	4	A3149G			3	Not Applicable	18,300 (2)
A8564AG									4		27,400 (3)
A8573AG									3		18,300 (2)
A8574AG									4		27,400 (3)

* For use with modified 300# ANSI flange with 4" port.

*** 2" F. NPT outlet connection.

** Flow rating based on number of relief valves indicated in parenthesis (). Flow rates shown are for bare relief valves. Adapters and pipeways will reduce flow rates as discussed in forewording information.

**** Outlet 3/2-8N (F) thread, will accept 3" M. NPT pipe thread.