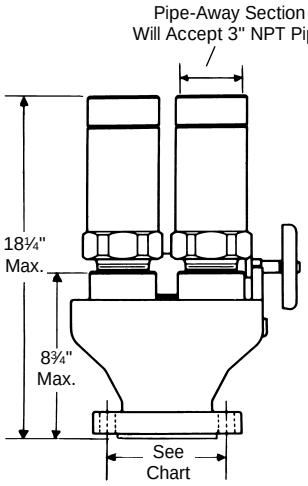
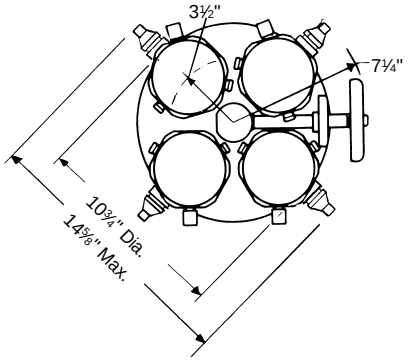
Multiport® Pressure Relief Valve Manifold Assemblies for Large Storage Containers

CHRYSSAFIDIS

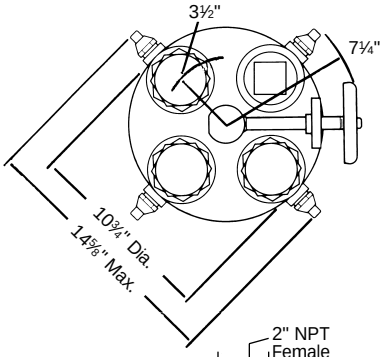
A8560, A8570 and AA8570 Series

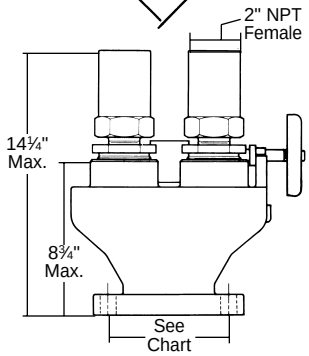
A8560
A8570





AA8570





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 reseat 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.

Manifold Materials

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

Relief Valve Materials

Description	A8563, A8564, A8573, A8574	AA8573
Body	Upper-Cold Rolled Steel Lower-Ductile Iron	Forged Aluminum*
Liner	Stainless Steel	None
Spring Guide	Stainless Steel	Aluminum
Spring	Coated Steel	
Seat Disc	Resilient Synthetic Rubber	

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

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	

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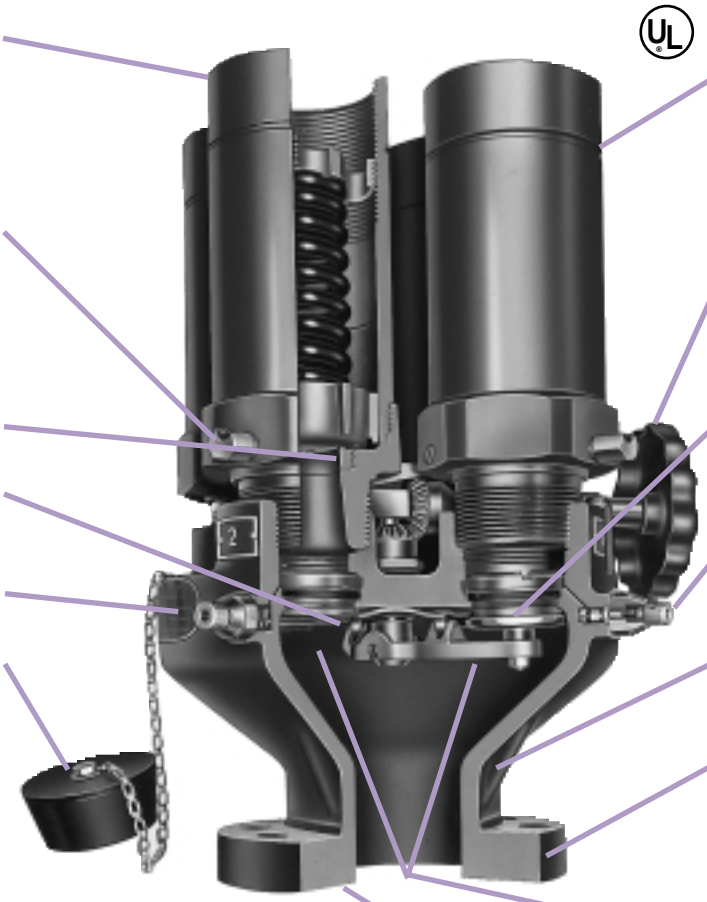
Typical RegO Multiport® Pressure Relief Valve Manifold



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 shut-off 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) ⅞" Bolt Holes on a 6⅝" Bolt Circle Diameter Flat Faced.	4"	3" 7564-48
A8570 AA8570	4" ASA 300#	 (8) ⅞" Bolt Holes on a 7⅞" Bolt Circle Diameter 1/16" Raised Face.	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	
					Quantity	Part Number	Inlet Connection M. NPT	Accessories Pipeaway Adapters	UL Rating	ASME Rating
		LP-Gas	NH_3							
A8563G	250	Yes	Yes	3"-300#*	3	A3149MG	2½"	****	18,500 (2)	Not Applicable
A8564G					4				27,750 (3)	
AA8573G		No		4"-300#	3	AA3135MUA250	1¼"	AA3135-10***	11,400 (2)	
A8573G		Yes				A3149MG	2½"	****	18,500 (2)	
A8574G					4				27,750 (3)	
A8563AG	250	Yes	Yes	3"-300#*	3	A3149G	2½"	****	Not Applicable	18,300 (2)
A8564AG					4					27,400 (3)
A8573AG				4"-300#	3					18,300 (2)
A8574AG					4					27,400 (3)

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

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

*** 2" F. NPT outlet connection.

**** Outlet 3½-8N (F) thread, will accept 3" M. NPT pipe thread.

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