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

Materials

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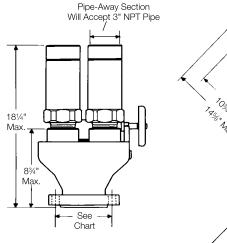
- · Allows for relief valve removal and replacement on a periodic basis without shutting down and evacuating the container.
- "Pop-action" design of relief valves insures maximum protection with only minimal product loss at moderately excessive pressures.
- · A rubber plug with chain is provided to protect 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.

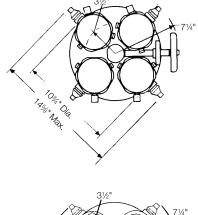
Body Ductile Iron

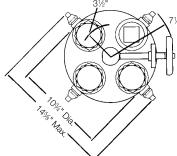
Clapper Disc..... Stainless Steel

Bleeder Valve Stainless Steel















| 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 | 1 | | Manhold 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 i | A special coating is applied to the inlet threads to minimize possibility of electrolytic action | | | | |

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Typical RegO Multiport[™] Pressure Relief Valve Manifold

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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.

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 ^s / ₆ " Bolt Circle Diameter Flat Faced. | 4" | 3" 7564-48 | OF RODUCE | |
| 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 | | |

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.

Ordering Information

| | | Application | | | Relief Valve | | | | Flow Capacity SCFM/Air** | |
|-------------|-----------|------------------------|----------------------|--------------|--------------|----------------------|----------------------|-----------------------|--------------------------|------------|
| | Start To | | | Container | | | Inlet | Accessories | At 120% of Set I | - |
| Part Number | Discharge | LP-Gas NH ₃ | Flange Connection | Quantity Par | Part Number | Connection M. NPT | Pipeaway Adapters | UL Rating ASME Rating | | |
| A8563G | | 250 Yes Yes | Yes Yes | 3"-300#* | 3 | A3149MG A3149G | | **** | 18,500 (2) | |
| A8564G | | | | | 4 | | | | 27,750 (3) | Not |
| A8573G | | | | 4"-300# | 3 | | | | 18,500 (2) | Applicable |
| A8574G | 250 | | | | 4 | | 21/2" | | 27,750 (3) | |
| A8563AG | | | | 3"-300#* | 3 | | 2/2 | | | 18,300 (2) |
| A8564AG | | | | | 4 | | | | Not | 27,400 (3) |
| A8573AG | | | | 4"-300# | 3 | | | | Applicable | 18,300 (2) |
| A8574AG | | | 4 -300# | 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 31/2-8N (F) thread, will accept 3" M. NPT pipe thread.

