

# Carbon Dioxide Relief Valves, ASME UA3149A Series

## Application

The UA3149A series "pop-type" relief valves are especially designed for use as a secondary relief valve in carbon dioxide transports and stationary storage tanks. The relief valve is designed to protect the tank from excessive over pressure in the event of fire or other emergencies. A small throttling-type primary relief valve must also be provided to control boil-off and maintain tank pressure. Provisions must be made to prevent the accumulation and build-up of water and foreign material in the valve by use of protective cap included.

## Features

- "Pop-type" design permits the relief valve to open slightly to relieve moderately excessive pressures
- Relief valve "pops" open to full discharge capacity when pressure exceeds a predetermined point
- UA3149A relief valves incorporate integral pipeaway adapter with break off groove that protects the valve from piping stress damage.
- Optional pipeaway adapters have grooves that will break off to protect the relief valve from damage should excess stress be applied to the piping.
- UA3149A relief valves include weep hole deflectors, installed to guard against flame impingement on adjacent containers.
- 100% Factory Tested
- Temperature Rating: -40°F (-37°C) to 85°F (29°C)
- Tamper Resistant
- Repeatable Performance
- ASME Rated
- Rated for Gas Service
- Resilient seat disc provides "bubble-tight" seal.

## Materials

Body ..... Steel and Ductile Iron  
 Liner..... Stainless Steel  
 Seat Insert..... Stainless Steel  
 Spring Guide..... Brass  
 Adjusting Screw..... Ductile Iron  
 Seat Disc ..... Urethane Compound  
 Spring ..... Corrosion Resistant Steel

## Ordering Information

Part Number	Pressure Setting psig (barg)**	Flow Capacity (SCFM/Air)	Inlet Connection (M.NPT) Inches (mm)	Height A Inches (mm)	Wrenching Hex B Inches (mm)
UA3149A303	303 psig (20.9 barg)	9,883*	2½" (63.50)	10½" (266.70)	4½" (104.90)
UA3149A330	330 psig (22.7 barg)	10,726*			
UA3149A350	350 psig (24.1 barg)	11,351*			
UA3149A358	358 psig (24.7 barg)	11,601*			

\*Capacity certified by National Board of Boiler and Pressure Vessel Inspectors at 10% above set pressure.

\*\*Other Settings not ASME/NB Certified



UA3149A Series

FEMALE THREAD TO FIT  
3" STANDARD PIPE

