

# Cryogenic Gas Relief Valves, Non-ASME 9400 Series

## Application

9400 series relief valves are specifically designed for vapor line safety relief applications and cryogenic liquid containers.

## Features

- Cleaned and packaged for oxygen service per CGA G-4.1
- Bubble tight at 95% of set pressure
- Color coded labels clearly identify pressure setting range
- Tamper resistant
- Adapters provide standard pipe thread connections for venting gas to the outdoors
- Repeatable performance
- 100% factory tested
- Temperature Range (Teflon Seat) -320° to +165° F (-196°C to +74°C)  
(Fluorosilicone Seat) -60° to +165° F (-51°C to +74°C)
- Rated for gas service only
- In liquid service be sure to use with a candy cane riser (Sold Separately)
- Setpoint tolerance ± 3%

## Materials SS Style

Body .....	Stainless Steel
Spring .....	Stainless Steel
Seat Retainer.....	Stainless Steel
Pipe-Away Adapter .....	Stainless Steel

## Materials PRV and B-Style

Body .....	Brass
Spring .....	Stainless Steel
Seat Retainer.....	Brass
Pipe-Away Adapter .....	Brass

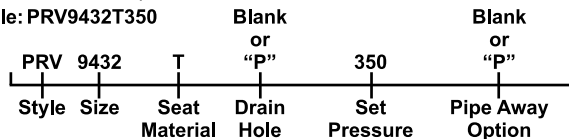
## Flow Performance

- 9400 for set pressure 90-600 psig, flow of 0.783 SCFM Air/psig at 110% of set pressure.
- 9400 for set pressure 15-89 psig, flow of 0.750 SCFM Air/psig at 110% of set pressure.
- B-9425N flow of 6.7 SCFM Air/psig at 120% of set pressure.
- B-9426N flow of 11.0 SCFM Air/psig at 120% of set pressure

## Ordering Information

Fill in the blanks with options below.

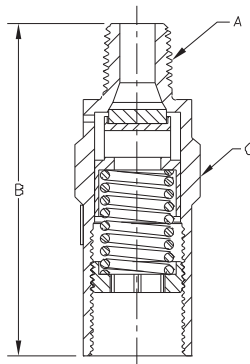
Example: PRV9432T350



This example part number indicates a 1/4" M.NPT PRV style brass relief valve with PTFE seat, set at 350 psig with drain hole and no pipe away adapter.

## Ordering Information

Style	Size	Body and Valves Material	Pressure Setting Range psig (barg)	Inlet MNPT A Inches (mm)	Height B Inches (mm)	Wrenching Hex C inches (mm)	Kd value	Orifice Size In2 (mm2)	Pipe-Away Adapter P/N	Pipe-Away Outlet FNPT Inches (mm)				
PRV	9432	Brass	10-600 (0.68-41.36)	1/4" (6.35)	2.6" (66.04)	3/8" (22.35)	0.686	.062 (40)	B-9412-2	3/8" (9.65)				
SS		Stainless Steel		SS9412-4					1/2" (12.70)	2.8" (71.12)	1/2" (6.35)			
PRV	9433	Brass							3/8" (9.65)		2.8" (71.12)	B-9412-2	3/8" (9.65)	
SS		Stainless Steel		SS9412-4	1/2" (6.35)									
PRV	9434	Brass							10-300 (1.37-20.68)	3/4" (19.05)	3.4" (86.36)	3.4" (86.36)	0.894	.42 (271)
SS		Stainless Steel		10-300 (4.13-20.68)	1" (25.4)					5.3" (134.62)				
B-	9425	Brass	60-300 (4.13-20.68)			1" (25.4)	5.3" (134.62)	5.3" (134.62)	0.986		.62 (400)	B-3131-10	1" (25.4)	
	9426			B-3132-10	1 1/4" (31.75)									



9400 Series

## Seat Material Option

F for Fluorosilicone for PRV and SS styles for 16-139 psig (1.10 - 9.58 barg)  
T for PTFE for PRV and SS styles for 140-600 psig (9.65 - 41.36 barg)  
N for B-9425 and B-9426, Fluorosilicone seat, all set pressures.

## Drain Hole Option

Relief valves without pipeaway typically provided with drain holes, leave blank. P - for relief valves without drain hole, for example PRV9432TP350  
Drain hole can not be used with pipeaway.

## Pipe Away Option

P Pipeaway included and attached, No drain hole in relief valve.  
For example PRV9432TP350P  
Leave blank for relief valve without pipe-away attached.  
For example PRV9432TP350.

## Set Pressure

Specify set pressure within range specified for style and size. The B-9425 & B-9426N are available in select settings only. Special order.

For easy identification, the following standard settings have color coded labels for all PRV and SS Style sizes and settings marked in psig and barg:

**WARNING:** Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage. The useful safe service life of a pressure relief valve may be significantly affected by the service environment.