

# Cryogenic Gas Relief Valves, ASME PRV19430 & PRV29430 Series

The 19430 and 29430 relief valves are designed for oxygen and other industrial gases, and for cryogenic service in the vapor space. Apply on piping systems, liquid cylinders, or mini-bulk cryogenic containers where an ASME relief valve is required.



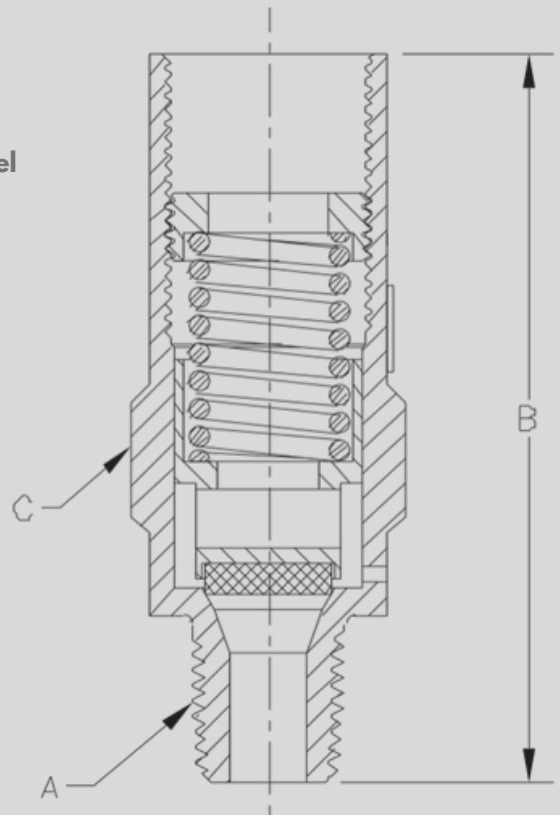
- A.S.M.E. rated, National Board Certified
- Bubble tight at 95% of set pressure
- Full flow at 110% at set pressure
- Repeatable performance
- 100% factory tested
- Temperatures Range (Teflon Seat) -320° to +165° F (-196°C to +74°C)  
(Fluorosilicone Seat) -60° to +165° F (-51°C to +74°C)
- Cleaned and packaged for oxygen service per CGA G-4.1
- Rated for gas service only
- Color coded labels clearly identify pressure setting range
- Tamper-resistant
- In liquid service, be sure to use w/ candy cane riser (sold separately)

## SS Style

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

## PRV and B-Style

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



For set pressures 90 - 600 capacity is 0.692 SCFM of air per psig of flow pressure.  
 For set pressures 15 - 89 capacity is 0.750 SCFM of air per psig of flow pressure.  
 Flow pressure per ASME is 10% above set pressure or +3 psig (0.2 barg), whichever is greater.

- 1 ASME approved valve made of brass.
- 2 ASME approved valve made of stainless steel.

F for Fluorosilicone for 15 to 139 psig (6.2 - 9.5 barg) set points.  
 T for PTFE for 140-600 psig (9.6 - 41.4 barg) set points.

Leave blank for relief with drain hole. Insert P if no drain hole.

Enter number for set pressure in psig (6.2 - 41.4 barg) from 15 to 600.

Example: PRV19432T350

**PRV   1   9432   T   Blank or "P"   350**  
 Style   Body   Size   Seat   Drain Hole   Set Pressure  
           Material           Material

Pipe-away adapter options available (sold separately).  
 Drain hole cannot be used with pipe-away.

The use of a candy cane riser is recommended for liquid phase installation of these PRVs.  
 Setpoint tolerance is ± 3% of the set pressure or ± 2 psig, whichever is greater .

| Part Number | Body / Valve Material | Pressure Setting Range psig (barg) | Inlet MNPT A Inches | Height B Inches (mm) | Wrenching Hex C inches (mm) | Kd Value | Orifice Size In2 (mm2) |
|-------------|-----------------------|------------------------------------|---------------------|----------------------|-----------------------------|----------|------------------------|
| PRV19432    | Brass                 |                                    | 1/4"                |                      |                             |          |                        |
| PRV29432    | Stainless Steel       |                                    |                     | 2.6" (66.04)         |                             |          |                        |
| PRV19433    | Brass                 | 15-600                             | 3/8"                |                      | 7/8" (22.35)                | 0.686    | .062 (40)              |
| PRV29433    | Stainless Steel       | (1.03-41.36)                       |                     |                      |                             |          |                        |
| PRV19434    | Brass                 |                                    | 1/2"                | 2.8" (71.12)         |                             |          |                        |
| PRV29434    | Stainless Steel       |                                    |                     |                      |                             |          |                        |