

P-262

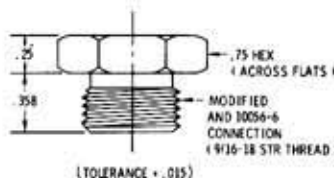
P-249

These compact pancake style relief valves provide precise opening; absolute sealing against back leakage — will hold pressure slightly under cracking pressure indefinitely. They are designed to protect sealed containers or systems from over-pressure or excessive vacuum.

**TYPICAL USES**

- Protection of hermetically sealed airborne containers (such as are used for pressurized electronic equipment) from excessive pressure or vacuum.
- Protection of inflated landing float from excessive pressure differential during ascent.
- Relief protection for dome of pressure regulator to protect diaphragm in event of momentary over-pressure.
- Thermal protection for oil filled radar dome.
- Bypass around float actuated fuel cell vent valve to provide thermal protection when valve is closed.
- Vacuum breaker for thermal anti-icing duct to prevent collapse of duct when de-icing system has been turned off.
- Dust and moisture protection for bleed port of three way solenoid valve.

**TYPICAL DIMENSIONS**



**TYPICAL TECHNICAL CHARACTERISTICS**

**RELIEF**

PART NO.	CONNECTION	BODY MATERIAL	OPR. TEMPERATURE	OPR. PRESSURE	SUITABLE FOR
P-249	3/16-18 Str. Thrd.	2024-T4 Aluminum	-40 to 225°F	0-100 psi	Air, Carbon Dioxide, Helium Hydrogen, Nitrogen, Hydraulic Fluid
P2-249	3/16-18 Str. Thrd.	2024-T4 Aluminum	-65 to 180°F	0-100 psi	Air, Carbon Dioxide, Helium Hydrogen, Nitrogen, Hydraulic Fluid
P7-249	3/16-18 Str. Thrd.	2024-T4 Aluminum	-80 to 400°F	0-100 psi	Air, Carbon Dioxide, Helium Hydrogen, Oxygen, Nitrogen
P1-249	1/4" male pipe	2024-T4 Aluminum	-80 to 400°F	0-100 psi	Air, Carbon Dioxide, Helium Hydrogen, Oxygen, Nitrogen
P9-249	1/2" male pipe	303 Stainless Steel	-65 to 450°F	0-20 psi	Uses Teflon "O" Rings. Suitable for most fluids.
P24-249	3/16-18 Str. Thrd.	2024-T4 Aluminum	-40 to 225°F	0-100 psi	Hydrazine, UDMH

**VACUUM BREAKER**

PART NO.	CONNECTION	BODY MATERIAL	OPR. TEMPERATURE	OPR. PRESSURE	SUITABLE FOR
P-262	3/16-18 Str. Thrd.	2024-T4 Aluminum	-40 to 225°F	0-100 psi	Air, Carbon Dioxide, Helium Hydrogen, Nitrogen, Hydraulic Fluid
P2-262	3/16-18 Str. Thrd.	2024-T4 Aluminum	-65 to 180°F	0-100 psi	Air, Carbon Dioxide, Helium Hydrogen, Nitrogen, Hydraulic Fluid
P7-262	3/16-18 Str. Thrd.	2024-T4 Aluminum	-80 to 500°F	0-100 psi	Air, Carbon Dioxide, Helium Hydrogen, Oxygen, Nitrogen
P4-262	1/4" male pipe	2024-T4 Aluminum	-40 to 225°F	0-100 psi	Air, Carbon Dioxide, Helium Hydrogen, Nitrogen, Hydraulic Fluid

**FUNCTIONAL CONSIDERATIONS**

P-249 and P-262 valves are primarily designed for use in systems where flow requirements are relatively low and precise cracking pressure tolerance is not required. Where high flows must be passed or where sensitive cracking pressure tolerance is required, 500 series or other Circle Seal valve types should be used.

**MATERIALS:** 2024 Aluminum, 303 Stainless Steel, Brass

**SIZES:** 3/16-18 Straight Thread, 1/4", 1/2" Male Pipe

**CRACKING PRESSURES:** Standard .5 psi, Special .1 psi (min) to 20 psi (max). .5 psi and below cracking pressure tolerance is "max"; above .5 psi cracking pressure tolerance is ±10%. NOTE: Cracking pressure on first crack, may be slightly higher than max. tolerance. Exception; P9-249 cracking pressure is 3 to 6 psi.

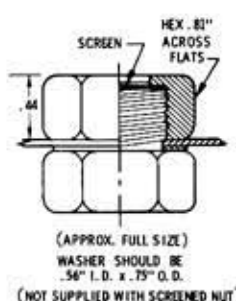
Non-destructive testing, such as individual flow test, testing with fluids other than compressed air or hydraulic oil, hydrostatic testing, x-ray, dye penetrant are not normal to our production processing, but are available at extra costs.



**P-249 series  
P-262 series**

**VACUUM  
BREAKER,  
VENT or  
BREATHER VALVES**

**MODEL 1210 NUT**



The Model 1210 screened nut can be used with P-249 and P-262 type valves installed in thin sheets. The screen is provided to prevent dust or foreign particles entering the valve or container. With 1210 nut, valve used is opposite to that used where valve is installed externally.

MATERIAL	PART NO.
Aluminum	1210A
Brass	1210B
Stainless Steel (303)	1210T