



DESCRIPTION

Valcor's relief valves vent excessive pressure in pneumatic and hydraulic systems and components. The valves eliminate the possibility of part damage due to excessive pressure. The valves reseal as soon as the pressure decays to a safe level, and prevent further loss of system pressure.

APPLICATION

The valves are used in any pneumatic or hydraulic system or component that could be exposed to excessive pressure by virtue of a failure, or partial failure, of another item. Examples include: the outlet side of a pressure regulator which may experience excessive pressure from leakage past the regulator seat, and excessive pressure build up in a closed system due to high temperature exposure.

FEATURES

- Adjustable relief pressure
- Hydraulic and pneumatic applications
- Capable of high flows (10 gpm)
- Capable of high pressures (~3300 PSI)
- Designed for lightweight, yet high strength applications (~0.25 lbs)

Valcor Aerospace Relief Valves

Brief Listing of Valcor's Qualified Aerospace Relief Valves

Valcor Part No.	Operating Fluid	Cracking Pressure	Reseat Pressure	Flow Rate	Weight	Body Material
V3500-84-3-W	GHe	900-1165 PSIG	665 PSIG MIN	0.433" ESEO	4.25 LB	Nitronic 50
V3500-155-W	MMH/MON, NTO, GN ₂ , GHe	2350-2600 PSIG	2300 PSIG	0.010" ESEO	< 1 LB	Titanium
V3500-155-1-W	GN ₂ ,MMH, NTO	2350-2600 PSIG	>2300 PSIG	0.010" ESEO	< 1 LB	CRES 316L
V3500-159-W	GN ₂ ,MMH, NTO	300-350 PSIG	>350 PSIG	0.010" ESEO	< 1 LB	CRES 316L
V3500-165-W	GN ₂ ,MMH, NTO	2350-2600 PSIG	>2300 PSIG	0.010" ESEO	< 1 LB	Titanium
V3500-166-W	GN ₂ ,MMH, NTO	350-400 PSIG	>350 PSIG	0.010" ESEO	< 1 LB	Titanium
V3500-76-W	GHe, GN ₂	7.9 to 13.0 PSIG	7.6 PSIG MIN	100 SLM of GN ₂	0.66 LB	Aluminum
V3500-123-1-W	MMH/MON, GHe, GN ₂	300-350 PSIG	300 PSIG MIN	0.029" ESEO	< 1 LB	CRES 316L
V3500-77-1-W	GN ₂ , GHe, Silane/GH ₂	1460-1640 PSIG	1260 PSIG	0.040" ESEO	.42 LB	Aluminum
V3500-77-2-W	GN ₂ , GHe, Silane/GH ₂	1750-1950 PSIG	1550 PSIG	0.040" ESEO	.42 LB	Aluminum
V3500-77-3-W	GN ₂ , GHe, Silane/GH ₂	2650-2950 PSIG	2450 PSIG	0.040" ESEO	.42 LB	Aluminum