Pressure Regulators



DESCRIPTION

Valcor's all mechanical pressure regulators provide stable outlet pressure with both a varying inlet pressure and flow. Valcor produces both springreferenced and dome-loaded regulators which are available in self-relieving or non-relieving designs. Selfrelieving regulators are capable of maintaining more accurate pressure control, as they can relieve excess downstream pressure. Non-relieving regulators are typically used in a continuously flowing application, or when the process media is toxic, corrosive, or an asphyxiant. A wide range of available elastomer and lip seal soft goods are/or polymer seals are available.

Valcor also offers absolute pressure regulators (for extremely low downstream pressure control) that utilize a bellows-sensing construction. Options for bellow include edge-welded and formed bellows that provide a leak-tight pressure boundary seal to eliminate the potential for fugitive emissions, as well as possibility of ambient environment media contamination.

APPLICATION

Valcor pressure regulators are found in aircraft cabin pressurization, engine bleed air, canopy seal pressure control, potable water systems, system pressurization, and onboard inert gas generation systems (OBIGGS).

FEATURES

- Constructed from lightweight materials
- Plug-in designs or custom bodies
- Constant outlet pressure over a wide range of supply pressures and flow rates
- Temperature ranges of -65°F to +900°F
- Designed for air, GN₂ and other inert gases
- Flow rates up to 240 SCFM
- Fully customizable for your application





Contact us today to see how we can help on your next project.

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Valcor specializes in custom designs. Below are just a few examples of solutions we have created in the past for our customers.

Examples	Operating Fluid	Inlet Pressure Range	Outlet Pressure	Flow Rate	Weight (lb.)	Body Material
V4000-891-W	Air	35-150 PSIG	25-30 PSIG	0.20 PPM	0.70	Aluminum
V4000-109-3-1-W	Engine Bleed Air	5.24-95 PSIA	5.0 ± .8 PSIA	.038 LB/SEC	1.51	Aluminum
V4000-109-3-1-W	Engine Bleed Air	19-180 PSIA	17 ± 2 PSIA	0 - 440 SCIM	0.77	Aluminum
V100000-396-W	GN ₂ , GHe	3000 PSIG	320±30 PSIG		6.35	Aluminum
895352-01-W	Dry Air of Nitrogen	19-3000 PSIG	26.5±1.5 PSIA	0-10 SCIM	0.50	Aluminum
890406-0100-03-W	Air, GN ₂ , GHe	1000 PSI	100±5 PSI	0.25 Flow Factor	1.28	Aluminum
V4000-224-W	Water	121 PSIG	89.6-97.3 PSIA	2.6 LB/HR	0.80	Stainless Steel
V44700-300-W	Engine Bleed Air	15-275 PSIG	70±5 PSIG	10 LB/MIN	5.5	Stainless Steel
V44700-252-W	Engine Bleed Air	18-65 PSIG	44-49 PSIG	85 LB/MIN	4.0	Stainless Steel
890409-W	Air, GN _{2,} GHe	3300 PSIG	1000 PSIG	0.25 Flow Factor	1.1	Aluminum
V4000-99-6-W	Air	8500 PSIG	1550 ± 150 PSI	0.22 LBS/S	4.15	Stainless Steel
V4000-58-W	Engine Bleed Air	46.5 PSIG	38 PSIG	10 LPM	0.50	Aluminum

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