AEROSPACE

PRESSURE REGULATORS, VALVES, AND SYSTEMS







AMERICAN MADE.
INNOVATIVE.
RELIABLE.
ECONOMICAL.
PREMIER.



PREMIER REGULATORS, VALVES, & GAS DELIVERY SYSTEMSFOR THE AEROSPACE INDUSTRY

WE ARE EXCITED ABOUT AEROSPACE.

We manufacture and test all of our equipment to meet rigid industry specifications while keeping in mind the distinctive needs and expectations of our customers. We are excited about the new strides being made in Aerospace and are proud to supply and design products that stand up to the unique demands of the aerospace industry.

WE'RE EXPERIENCED AND RESPONSIVE.

Our customers know that if they have a question, they can pick up the phone and give us a call. No automated messaging systems here. We have a team of engineers with over 100 years of regulator design experience ready to assist you. We are always pushing for more sophisticated processes, working on leading-edge designs, while striving to remain personable and responsive.



YOUR PARTNER IN EXPLORATION & DISCOVERY

If you do not see a standard Premier model that suits your needs, please contact us; we would be happy to help you with a custom design or modification.

Our regulators are offered in a variety of materials (with varying weights, strengths, degrees of corrosion resistance, etc.), flow capacities, and inlet/outlet pressure ranges. With the flexibility of optional port alignments, port sizes/types, relief and shut off valves, etc. Premier regulators provide maximum versatility and compatibility for your application.

VERTICALLY INTEGRATED LOW-OVERHEAD MANUFACTURING

From engineering, to programming and testing, We are proud to be a vertically integrated company that has the ability and means to produce high quality, American made products from concept to completion.



Products suited for pressure ranges from vacuum to 20,000 PSIG.

Optional laser etched parts.

Designs for use with harsh & reactive media (hypergolic propellants, supercritical fluids etc.)

Optional parts cleaning and inspection to meet 100R1 (particulate 100, NVR R1) per IEST-STD-CC1246.

A variety of mounting options to integrate seamlessly into your desired application: surface mounting, panel nuts, panel mounting brackets, flanges etc.

Optional laminar flow clean bench assembly, testing, and packaging.

Dome and air-loaded regulators for use with electro-pneumatic controllers for precision and automation.

Optional material certifications.



PRODUCTS FOR AEROSPACE

THIS IS A SMALL SELECTION FROM OUR PRODUCT LINE.

PLEASE CONTACT US WITH INTEREST OR VISIT OUR WEBSITE FOR A BROADER PRODUCT SELECTION.

WWW.PREMIERIND.US

763.786.4020

We answer the phone, your call won't go into a black hole!



3500 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	Designed for gas mediaPiston sensed	6000 psig / 413.7 bar	Cv: 0.06 Cv: 0.2	6061-T6 Aluminum, Nickel plated
8888	 15 micron sintered 316 SST inlet filter Non-venting 			SAE 360 brass, Nickel Plated
	Optional acorn nutThree knob styles			303 Stainless Steel
	Minimal soft goods			316 Stainless Steel
				Monel®
3500DL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Dome loaded, 1:1 15 micron sintered 316 	6000 psig / 413.7 bar	Cv: 0.06 Cv: 0.2	6061-T6 Aluminum, Clear Anodized
	SST inlet filter • Pneumatic, Piston Sensed			303 Stainless Steel
70	 Captured venting Compatible with electro- pneumatic controllers 			316 Stainless Steel
3500AL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
3500AL SERIES	Pneumatic, Piston SensedAir loaded, 1:2, 1:3, 1:4,			
3500AL SERIES	 Pneumatic, Piston Sensed Air loaded, 1:2, 1:3, 1:4, 1:4 + 0-150 psig bias Captured venting 	PRESSURE 6000 psig /	CAPACITY Cv: 0.06	MATERIAL 6061-T6 Aluminum,
3500AL SERIES	 Pneumatic, Piston Sensed Air loaded, 1:2, 1:3, 1:4, 1:4 + 0-150 psig bias 	PRESSURE 6000 psig /	CAPACITY Cv: 0.06	MATERIAL 6061-T6 Aluminum, Clear Anodized
3500AL SERIES 6500 SERIES	 Pneumatic, Piston Sensed Air loaded, 1:2, 1:3, 1:4, 1:4 + 0-150 psig bias Captured venting Compatible with electropneumatic controllers 	PRESSURE 6000 psig /	CAPACITY Cv: 0.06	MATERIAL 6061-T6 Aluminum, Clear Anodized 303 Stainless Steel
	 Pneumatic, Piston Sensed Air loaded, 1:2, 1:3, 1:4, 1:4 + 0-150 psig bias Captured venting Compatible with electropneumatic controllers 2 or 4 port designs FEATURES Hydraulic Piston Sensed 	PRESSURE 6000 psig / 413.7 bar	CV: 0.06 Cv: 0.2	MATERIAL 6061-T6 Aluminum, Clear Anodized 303 Stainless Steel 316 Stainless Steel
	 Pneumatic, Piston Sensed Air loaded, 1:2, 1:3, 1:4, 1:4 + 0-150 psig bias Captured venting Compatible with electropneumatic controllers 2 or 4 port designs FEATURES Hydraulic Piston Sensed Non-venting Optional acorn nut Minimal soft goods 	PRESSURE 6000 psig / 413.7 bar MAX INLET PRESSURE 6000 psig /	CAPACITY Cv: 0.06 Cv: 0.2 FLOW CAPACITY Cv: 0.06	MATERIAL 6061-T6 Aluminum, Clear Anodized 303 Stainless Steel 316 Stainless Steel BODY MATERIAL
	 Pneumatic, Piston Sensed Air loaded, 1:2, 1:3, 1:4, 1:4 + 0-150 psig bias Captured venting Compatible with electropneumatic controllers 2 or 4 port designs FEATURES Hydraulic Piston Sensed Non-venting Optional acorn nut 	PRESSURE 6000 psig / 413.7 bar MAX INLET PRESSURE 6000 psig /	CAPACITY Cv: 0.06 Cv: 0.2 FLOW CAPACITY Cv: 0.06	MATERIAL 6061-T6 Aluminum, Clear Anodized 303 Stainless Steel 316 Stainless Steel BODY MATERIAL 6061-T6 Aluminum, Nickel plated SAE 360 brass,
	 Pneumatic, Piston Sensed Air loaded, 1:2, 1:3, 1:4, 1:4 + 0-150 psig bias Captured venting Compatible with electropneumatic controllers 2 or 4 port designs FEATURES Hydraulic Piston Sensed Non-venting Optional acorn nut Minimal soft goods 	PRESSURE 6000 psig / 413.7 bar MAX INLET PRESSURE 6000 psig /	CAPACITY Cv: 0.06 Cv: 0.2 FLOW CAPACITY Cv: 0.06	MATERIAL 6061-T6 Aluminum, Clear Anodized 303 Stainless Steel 316 Stainless Steel BODY MATERIAL 6061-T6 Aluminum, Nickel plated SAE 360 brass, Nickel Plated



6500DL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	Hydraulic Dome loaded (1:1) Pitter Second.	6000 psig / 413.7 bar	Cv: 0.06 Cv: 0.2	6061-T6 Aluminum, Clear Anodized
	Piston SensedCaptured venting			303 Stainless Steel
	 Compatible with electro- pneumatic controllers 1000 psig (68.95 bar) max dome load 			316 Stainless Steel
6500AL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
6.	HydraulicAir loadedPiston Sensed	6000 psig / 413.7 bar	Cv: 0.06 Cv: 0.2	6061-T6 Aluminum, Clear Anodized
9	 Captured venting 			303 Stainless Steel
	 Compatible with electro- pneumatic controllers Load ratios: 1:2, 1:3, 1:4 2 or 4 port designs 			316 Stainless Steel
4600 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
_	Two stage	6000 psig /	Cv: 0.06 Cv: 0.2	316 Stainless Steel
J	 Piston Sensed Stable set pressures 1 st stage valve seat: Vespel® 2nd stage valve seat PCTFE 	413.7 bar	CV. U.2	SAE 360 brass, Nickel Plated
3560 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	Miniature Pneumatic	10000 psig /	Cv: 0.06	316 Stainless Steel
	Captured-ventingCompact, piston sensed	689.48 bar	Cv: 0.2	303 Stainless Steel
	 Rear mounting holes std. Vespel®/PEEK/PCTFE seat 			6061-T6 Aluminum, Nickel Plated
6560 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	Miniature Hydraulic	10000 psig /	Cv: 0.06	316 Stainless Steel
	 Captured-venting Compact, piston sensed Rear mounting holes std. Vespel® PEEK® or 17-4 & 440C stainless steel seat 	689.48 bar	Cv: 0.2	303 Stainless Steel



3000 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
0000	 Designed for gas media Self venting, piston sensed 15 micron sintered 316 	10000 psig / 689.5 bar (316 SST)	Cv: 0.06 Cv. 0.12 Cv: 0.2	SAE 360 brass 316 Stainless Steel
	 SST inlet filter Optional captured venting Dome loaded & Air loaded designs available Optional acorn nut 	6000 psig / 413.7 bar (Brass)		6061-T6 Aluminum
3000AL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Designed for gas media Air loaded, Piston Sensed 15 micron sintered 316 SST inlet filter 	10000 psig / 689.5 bar (316 SST)	Cv: 0.06 Cv: 0.12 Cv: 0.2	SAE 360 brass 316 Stainless Steel
	 Optional captured venting Compatible with electro- pneumatic controllers 	6000 psig / 413.7 bar (Brass)		
3000DL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Designed for gas media Dome loaded Piston Sensed Optional panel mounting nuts Compatible with electropneumatic controllers 	10000 psig / 689.5 bar	Cv: 0.06 Cv: 0.12 Cv: 0.2 Cv: 0.3	316 Stainless Steel
6000 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Hydraulic, Piston Sensed Adjustable captured venting Air loaded design available Optional acorn nut Non-venting design available 	10000 psig / 689.5 bar	Cv: 0.06 Cv: 0.12 Cv: 0.2	316 Stainless Steel
6000AL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Hydraulic, Piston Sensed Captured venting Air loaded Compatible with electro- pneumatic controllers 	10000 psig / 689.5 bar 6000 psig / 413.7 bar (Brass)	Cv: 0.06 Cv: 0.12 Cv: 0.2 Cv) 0.3	316 Stainless Steel



6000DL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Hydraulic, Piston Sensed Captured venting Dome loaded Compatible with electropneumatic controllers 	10000 psig / 689.5 bar	Cv: 0.06 Cv: 0.12 Cv: 0.2 Cv: 0.3	316 Stainless Steel
6000FL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Hydraulic, Piston Sensed Raised face, welded neck flange connections 1" nominal pipe size Captured venting ANSI B16.5 class 1500 forged flange 	3000 psig / 206.84 bar	Cv: 0.06	17-4 Stainless Steel 316 Stainless Steel
3016 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Designed for gas media High flow Piston Sensed Self venting Optional captured venting Air loaded & dome loaded designs available 	10000 psig / 689.5 bar (Stainless Steel) 6000 psig / 413.7 bar (Brass)	Cv: 1.0 Cv: 2.0	SAE 360 Brass 316 Stainless Steel 17-4 Stainless Steel Monel®
3016AL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
7	 Designed for gas media High flow Piston Sensed Self venting Optional captured venting Air loaded & dome loaded designs available 	10000 psig / 689.5 bar (See data sheet) 6000 psig / 413.7 bar (See data sheet)	Cv: 1.0 Cv: 2.0	SAE 360 Brass 316 Stainless Steel 303 Stainless Steel
3020 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Designed for gas media 15 micron stainless steel valve cartridge filter Piston Sensed Captured venting Low-torque hand knob 	10000 psig / 689.5 bar (Stainless Steel) 6000 psig / 413.7 bar (Brass)	Cv: 0.04 Cv: 0.06 Cv: 0.12 Cv: 0.2 Cv: 0.3	SAE 360 Brass 316 Stainless Steel
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6020 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	HydraulicPiston SensedCaptured ventingLow-torque hand knob	10000 psig / 689.5 bar (Stainless Steel) 6000 psig / 413.7 bar (Brass)	Cv: 0.06 Cv: 0.12 Cv: 0.2 Cv: 0.3	SAE 360 Brass 316 Stainless Steel
3023 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Designed for gas media Captured venting Piston Sensed Vespel® seat Optional panel mounting nuts 	15000 psig / 1034.21 bar	Cv: 0.06 Cv: 0.12 Cv: 0.2 Cv: 0.3	316 Stainless Steel
3023AL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Designed for gas media Air loaded, Piston Sensed Compatible with electropneumatic controllers Captured venting Optional panel mounting nuts & gauges 	15000 psig / 1034.21 bar	Cv: 0.06 Cv: 0.12	316 Stainless Steel
6023 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Hydraulic, piston sensed Captured venting Choice of 17-4 stainless steel or Vespel® seat Optional panel mounting nuts 	15000 psig / 1034.21 bar	Cv: 0.06 Cv: 0.12	316 Stainless Steel
6023AL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Hydraulic, air loaded Captured venting 17-4 Stainless Steel, hardened or Vespel® seat Optional panel mounting nuts 	15000 psig / 1034.21 bar	Cv: 0.06 Cv: 0.12 Cv: 0.20	316 Stainless Steel
				PREMIER



3025 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Piston Sensed Pneumatic Captured venting 17-4 Stainless Steel hardened valves Air loaded designs available 	20000 psig / 1378.95 bar	Cv: 0.04	17-4 Stainless Steel
3025AL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Piston Sensed Air loaded Captured venting 17-4 Stainless Steel hardened valves Compatible w/ electro- pneumatic controllers 	20000 psig / 1378.95 bar	Cv: 0.043	17-4 Stainless Steel
3025HPL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Piston Sensed High pressure loaded Captured venting 1500 psig (103.42 bar) max loading pressure 	20000 psig / 1378.95 bar	Cv: 0.04	17-4 Stainless Steel
6025 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Hydraulic Piston Sensed Captured venting 17-4 Stainless Steel hardened valves Air loaded designs available 	20000 psig / 1378.95 bar	Cv: 0.06 Cv: 0.12 Cv: 0.20	17-4 Stainless Steel
6025AL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Hydraulic, Piston Sensed Air loaded Captured venting 17-4 SS hardened valves Compatible w/ electro-pneumatic controllers 	20000 psig / 1378.95 bar	Cv: 0.06 Cv: 0.12 Cv: 0.30	17-4 Stainless Steel
				PREMIER



5033DL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Dome loaded Piston sensed 1:1 dome load Optional external sensing port for improved accuracy 	6000 psig / 413.7 bar	Cv: 3.3	316 Stainless Steel
5050 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Preset outlet pressures Diaphragm sensed Buna-n or Viton® seat Max preset outlet pressure 200 psig / 13.79 bar 	1000 psig / 68.95 bar	Cv: 5.0	303 Stainless Steel 316 Stainless Steel Aluminum, Clear Anodize Monel 400®
5050DL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Dome loaded Diaphragm sensed Buna-n seat 1:1 dome load Max dome load 100 psig / 6.89 bar 	1000 psig / 68.95 bar	Cv: 5.0	303 Stainless Steel 316 Stainless Steel Aluminum, Clear Anodize
5050DLB SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Dome loaded / bias spring Diaphragm sensed Buna-n seat dome load + bias spring pressure = outlet pressure Max dome load 100 psig / 6.89 bar 	1000 psig / 68.95 bar	Cv: 5.0	303 Stainless Steel 316 Stainless Steel Aluminum, Clear Anodize
5060DL SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Dome loaded Piston sensed 1:1 dome load Optional external sensing port for improved accuracy 	6000 psig / 413.7 bar	Cv: 6.0	316 Stainless Steel PREMIER



2780 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Micro, piston sensed regulator Extremely compact & lightweight 	1000 psig / 68.95 bar (dependent on confguration)	Factory preset flows between 0.25- 7.0 LPM (dependent on confguration)	Aluminum, Clear Anodize SAE 360 Brass 303 Stainless Steel
2790 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Micro manifold regulator Piston sensed Designed to drop into manifold housing 	1500 psig / 241.3 bar	Cv: 0.0025	Aluminum, Clear Anodize
		3000 psig / 206.84 bar		303 Stainless Steel
•	minimizing volume.	200,84 bar		316 Stainless Steel
				Titanium TI-6AL-4V
RO.1 SERIES	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	BODY MATERIAL
	 Roughing regulator Used with high pressure regulators for increased outlet pressure stability 7/8" hex for easy torque 	10000 psig / 689.5 bar	Cv: 0,1	316 Stainless Steel 303 Stainless Steel



AO VALVES	FEATURES	MAX INLET PRESSURE	VALVE SEAT	BODY MATERIAL
	 High operating pressures Low actuation pressure: 70 psig / 4.8 bar Cv: 0.47, 0.8, or 2.0 Stainless steel body Compatible with electropneumatic controllers Optional solenoid adapter Normally open or closed designs Designs for use with hypergolic fuels 	10000 psig / 689.5 bar	Vespel®	316 Stainless Steel 303 Stainless Steel 17-4 Stainless Steel
70A SERIES VALVE	FEATURES	MAX INLET PRESSURE	VALVE SEAT	BODY MATERIAL
	 High operating pressures Low torque at high pressure Bubble-tight shut off Angle configuration 	10000 psig / 689.5 bar	Vespel SP-1® PTFE PCTFE PEEK®	316 Stainless Steel SAE 360 Brass
70AB SERIES VALVE	FEATURES	MAX INLET	VALVE	BODY
	FEATURES	PRESSURE	SEAT	MATERIAL
	Bleed/vent valve Low torque at high pressure Bubble-tight shut off Metal stop prevents stemover-travel Can be used to bleed downstream pressure to 0	10000 psig /	Vespel SP-1® PTFE PCTFE PEEK®	
70G SERIES VALVE	 Bleed/vent valve Low torque at high pressure Bubble-tight shut off Metal stop prevents stemover-travel Can be used to bleed 	10000 psig /	Vespel SP-1® PTFE PCTFE	MATERIAL 316 Stainless Steel



PA32 SERIES VALVE	FEATURES	MAX INLET PRESSURE	FLOW CAPACITY	MATERIAL
	 Pneumatically actuated, high pressure 3/2 valve High process pressures for heavy actuation loads. Cv: 0.025 Actuation pressure: 100-150 PSIG (6.89-10.34 bar) Normally open or normally closed operation 	3000 psig / 206.84 barg	Cv: 0.025	SAE 360 Brass, Nickel Plated & 17-4 Stainless Steel 303 Stainless Steel & 17-4 Stainless Steel
RELIEF VALVE	FEATURES	MAX RELIEF PRESSURE		MATERIAL
	Captured outletPCTFE seat	1800 psig / 124.11 barg		SAE 360 Brass, Nickel Plated
	 Compatible with gas and hydraulic media 			6061-T6 Aluminum, Nickel Plated
				303 Stainless Steel
				316 Stainless Steel







