

ISPE Instrument Regulator



The Welker I-Series Instrument Regulators maintain downstream pressure control in analytical, process, sampling, or injection systems to protect sensitive equipment from costly damage. These instrument regulators are spring-loaded pressure-reducing valves designed to reduce a high-pressure filtered pneumatic supply to a lower outlet pressure safe for downstream instrumentation.

The ISPE model in the I-Series is a cost-effective, standalone piston-sensing instrument regulator suitable for regulating air and light gases, such as hydrogen.

Features

- Piston-sensing
- Compact, lightweight design
- Multiple flow coefficients and pressure control ranges
- Flexible port configuration

Benefits

- Capable of regulating higher inlet pressures with minimal flow droop
- Suitable for small enclosures and for portable and on-vehicle applications
- Adaptable to pressure requirements of downstream equipment
- Select accessory arrangement best suited for the installation and application
- Uncomplicated maintenance requires no special tools and little downtime



SPECIFICATIONS

ISPE INSTRUMENT REGULATOR

Materials of Construction	Body: Nickel-Plated Aluminum Piston: Aluminum Seat: PCTFE Seals: Viton® Others Available	Body: Plastic Piston: Aluminum Seat: PCTFE Seals: Viton® Others Available
	2160 psig (148 barg)	500 psig (34 barg)
Maximum Allowable Inlet Pressure	32 °F to 392 °F (0 °C to 200 °C)	
Temperature Range*	Others Available	
Ports	¼" FNPT or SAE Inlet, Outlet, Relief, and Gauge	
Flow Coefficient (C _v)	0.02	
	0.06	
	0.10	
Pressure Control Ranges	0–25 psig (0–1.7 barg)	
	0–50 psig (0–3.4 barg)	
	0–100 psig (0–6.8 barg)	
	0–200 psig (0–13.7 barg)	
Weight	0.5 lb (0.2 kg)	

*Operating at Temperatures Below 32 °F is Not Recommended and Could Result in Major Flow Reduction
*May Vary Based on Seal Material

Note: An upstream filter and downstream relief are required.

Weight and/or dimensions are approximate.
Specifications subject to change without notice.



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