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Брянск (4832)59-03-52
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Иваново (4932)77-34-06

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Кемерово (3842)65-04-62
Киров (8332)68-02-04
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Новокузнецк (3843)20-46-81
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Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

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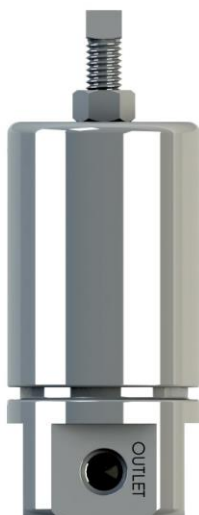
Казахстан (772)734-952-31

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ISPE

WHERE TO USE

- Upstream of sensitive pneumatic instruments as a standalone pressure control device or part of a conditioning system on air compressors, generators, and instrumentation panels
- Upstream of sensitive pneumatic instruments as a standalone pressure control device used in the production, transportation, storage, and utilization of hydrogen (e.g., research institutes and laboratories)
- Onboard light and heavy-duty industrial and commercial hydrogen fuel cell electric vehicles (FCEVs), such as buses and



H₂IGHS AND LOWS

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

With global and industrial decarbonization goals, the development and deployment of hydrogen and fuel cell technologies are growing in importance. Welker's ISPE Instrument Regulator can be used across the hydrogen value chain to reduce the pressure of the hydrogen gas to a lower outlet pressure safe for the downstream equipment in your application, helping prevent costly damage and interruptions to operation.

Data Sheet ISPE

Share

Piston-Sensing Pressure Control

Sense & Sensibility

Multiple flow coefficients and pressure control ranges let you adapt the ISPE to your instrument and application. The ISPE Instrument Regulators are piston-sensing, allowing for a quicker response to pressure adjustments.



Adjustable Outlet Pressure

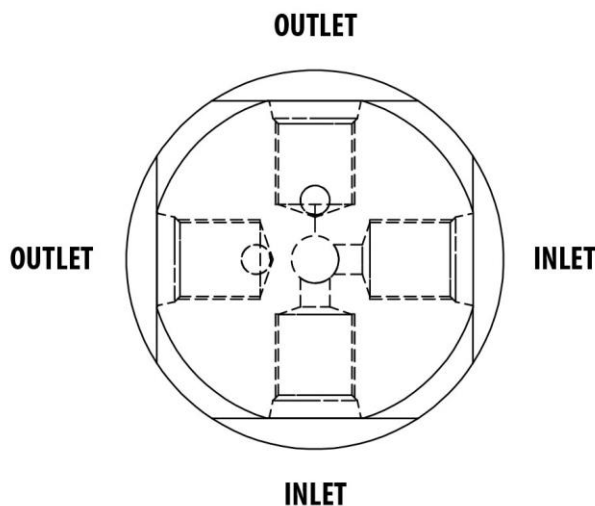
Set It And Forget It

A square head adjustment screw allows you to quickly and easily set the outlet pressure. With a locknut to prevent the spring setting from changing due to vibration, you can set the ISPE once and be sure the outlet pressure will remain constant.

Compact, Lightweight Construction

On the Weigh Down

The ISPE's small size, lightweight construction, and flexible port configuration allow it to easily fit into small enclosures and in portable and on-vehicle applications.



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
Maximum Allowable Inlet Pressure	2160 psig (148 barg)	500 psig (34 barg)
Temperature Range*	32 °F to 392 °F (0 °C to 200 °C) 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.

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