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IR5000W Series

316L SS, Single Stage, General Purpose, High Sensitivity, Internally Threadless, Welded Regulator

Customer Value Proposition:

The IR5000W Series regulator offers high pressure reducing capability with a maximum inlet pressure up to 3,500 psig. The larger convoluted Hastelloy C-22[®] diaphragm provides greater sensitivity for precise outlet pressure control over the operational range of the regulator.

Close tolerances and tight alignment of moving components minimize hysteresis and improve cycle life. Convoluted, Hastelloy C-22® diaphragm provides high corrosion resistance and increases cycle life.

Contact Information:

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Product Features:

- Unique compression member loads the seal to the body without requiring a threaded nozzle or additional seals.
- Internally threadless design reduces particle generation.
 Low internal volume reduces purge times.
- Cleaned for O₂ service is standard.

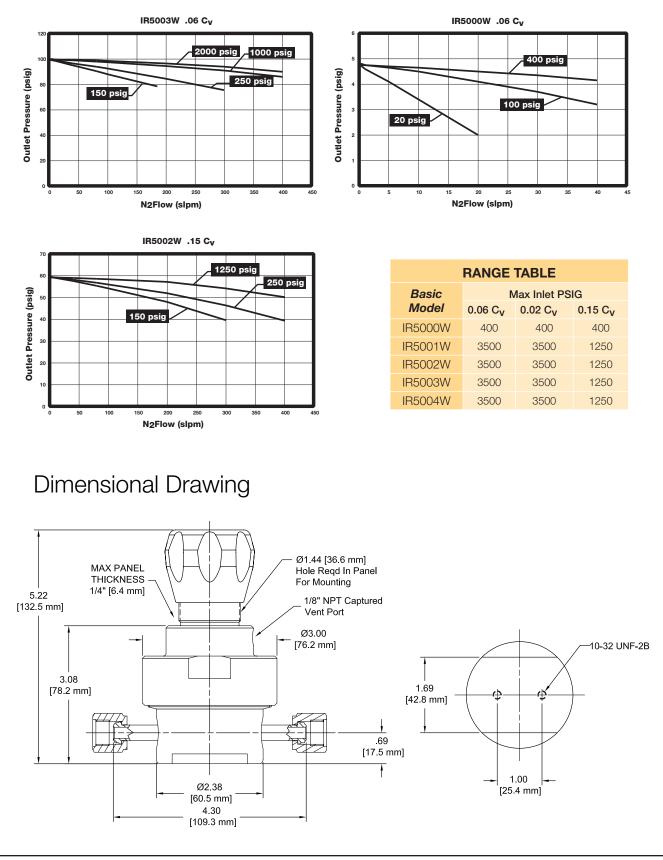
- Positive upward and downward stops increase cycle life by preventing over stroking of the diaphragm.
- Captured bonnet allows for safety venting
- Selection of seat materials for media compatibility and temperature applications.

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IR5000W SERIES

Flow Curves

Additional flow curves available upon request



Safety Guide and Installation and Operating Instructions available at www.parker.com/veriflo

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IR5000W SERIES

Ordering Information

Build an IR5000W Series regulator by replacing the numbered symbols with an option from the corresponding tables below.



Note: A gas with low molecular weight, such as Hydrogen and Helium, may cause flow vibration.

IR5000W Series Specifications

Materials of Construction		Functional Performance	
Wetted		Design	
Body	316L Stainless Steel	Burst Pressure	5,250 psig (362 barg)
Compression Member	Inconel 625®	Proof Pressure	10,500 psig (724 barg)
Diaphragm	Hastelloy C-22®	Flow Capacity	
Poppet	Hastelloy C-276 [®]	C _V Options	C _V 0.06 (std), C _V 0.02, C _V 0.15
Poppet Spring	Inconel X-750®	Leak Rate	Inboard Test Method
Seat Options	PCTFE, Vespel® or PEEK™	Internal	\leq 4 x 10 ⁻⁸ cc/sec He
Carrier Options	316L Stainless Steel (std) or Hastelloy C-22®	External	\leq 2 x 10 ⁻⁸ cc/sec He
		Supply Pressure	Based upon C_V Option
Washer Back-up	316 Stainless Steel (std) or	Effect	· · ·
Options	Hastelloy C-276 [®]	0.02 C _V	0.12 psig/100 psig (0.008 barg/7 barg)
O-ring Back-up Options	FKM (std) or PTFE	0.06 C _V	0.3 psig/100 psig (0.02 barg/7 barg)
Poppet Screen	Hastelloy C-22® (76µm)	0.15 C _V	0.75 psig/100 psig (0.05 barg/7 barg)
		Internal Volume	11.9 cc without fittings
Non-wetted		Approx. Weight	4.5 lbs. (2.1 kg)
Cap Options	Nickel Plated Brass (std) or Stainless Steel	Operating Conditions	
Nut	Stainless Steel	Maximum Inlet	Refer to Range Table for specific information
Knob Options	ABS (std) (ambient temp) or Aluminum	Outlet Options	0-5 psig (0.3 barg), 1-30 psig (2 barg),
For additional information on materials of construction, functional performance and			2-60 psig (4 barg), 3-100 psig (7 barg) or 10-250 psig (17 barg)

For additional information on materials of construction, functional performance and operating conditions, see Regulator Technical Bulletin.

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Hastelloy C-22® and Hastelloy C-276® are registered trademarks of Haynes International, Inc. PEEK™ is a trademark of Victrex olc.

Inconel® and Monel® are registered trademarks of Special Metals Corporation.

Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C.

Temperature Standard IR5000W Based upon seat material choice PCTFE -40°F to 150°F (-40°C to 66°C) PEEK™ -40°F to 275°F (-40°C to 135°C) -40°F to 500°F (-40°C to 260°C) Vespel® Low Pressure -40°F to 150°F (-40°C to 66°C) IR5000W (P)

OFFER OF SALE:

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/veriflo

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Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

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