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AVR4 Series

316L SS, High Pressure Electrically Heated Pressure Reducing Vaporizing Regulator

Customer Value Proposition:

The AVR4 Series regulator is designed to heat and/or vaporize a gas or liquid sample before entering an analyzer system.

This unique design allows the user to disassemble the regulator and heat transfer components for complete cleaning and repair of the unit, thus reducing expensive replacement costs and down time.



Contact Information:

Parker Hannifin Corporation Veriflo Division 250 Canal Blvd Richmond, California 94804

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Product Features:

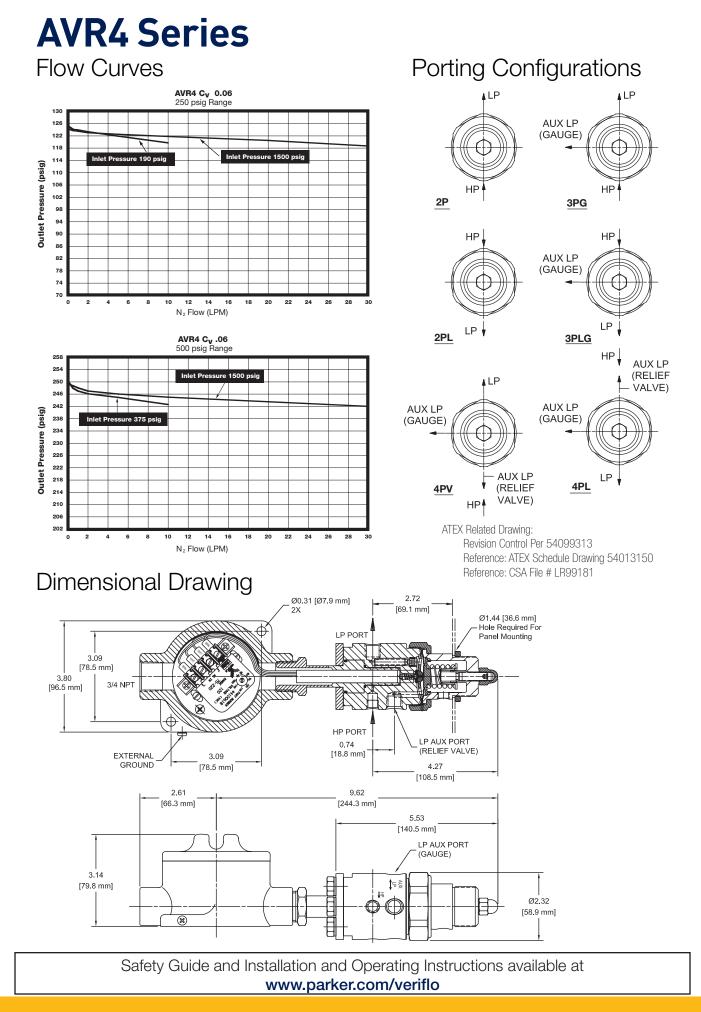
- Ultra low internal volume.
- CSA, CE-ATEX certified.
- Cleaned for O₂ service is standard.
- Convoluted Hastelloy C-22® diaphragm for superior strength and corrosion resistance provides outlet pressure stability with changes in flow.
- Field serviceable heat transfer element.

- TCO (Thermal cut-out) is standard for all heat ranges.
- Integral diaphragm stop provides additional measure of safety.
- Express Service Program available noted *in blue italic print*.

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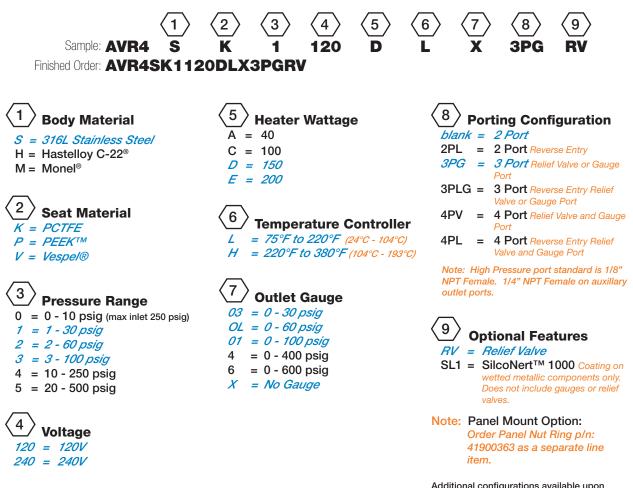
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Build an AVR4 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Note: Options in *blue/Italic* type are available for the *Express Service Program*.



Additional configurations available upon request

Note: Veriflo reserves the right to plug NPT ports. If a true ported body is required, please contact Customer Service.

Product Cer	tifications
North American Certification	CLASS I GROUPS A,B,C & D US LR99181
European Union Certification	C C0344 (Ex)11 2 G ExdIIC T3 KEMA 03ATEX2359

AVR4 Series Specifications

Materials of Construction

Wetted	
Body Options	316L Stainless Steel (Std), Monel® or Hastelloy C-22®
Compression Member	Inconel® 625
Diaphragm	Hastelloy C-22®
Poppet	Hastelloy C-276®
Poppet Spring	Inconel® X750
Seat Options	PCTFE, PEEK™ or Vespel®
Carrier Options	316L Stainless Steel (std) or Hastelloy C-22®
Heater Seal	PEEK™
O-ring Back-up	FKM
Non-wetted	
Сар	303 Stainless Steel
Nut	316L Stainless Steel
Condulet	Cast Iron Alloy and Aluminum
Operating Conditions	
Maximum Inlet	3,500 psig (241 barg) or 250 psig (17.2 barg) for 10 psig range
Outlet	0-10 psig (0.7 barg), 1-30 psig (2 barg), 2-60 psig (4 barg), 3-100 psig (7 barg), 10-250 psig (17 barg), 20-500 psig (35 barg)
Temperatures	based upon seat option
PCTFE	150°F (66°C)
PEEK™	275°F (135°C)
Vespel®	500°F (260°C)
Ambient Temperature	-4°F to +104°F (-20°C to +40°C)

Functional Performance	
Design	
Burst Pressure	10,500 psig (724 barg)
Proof Pressure	5,250 psig (362 barg)
Flow Capacity	C _V 0.06 Nominal
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Internal Volume	
High Pressure Inlet	0.57 cc
Overall	4.6 cc
Approx. Weight	8 lbs. (2.0 kg)
Electrical Specifications	
Power Requirements	120V or 240V, 50/60 Hz
Heater Wattage	40, 100, 150 or 200 watt
Temperature Controller (Proportional)	75°F to 220°F or 215°F to 380°F (24°C to 105°C or 102°C to 194°C) <i>Ranges are approximate</i>
Condulet	Crouse Hinds, UL and CSA listed Class 1, Groups A, B, C, D; Class 2, Groups E, F, G

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

Hastelloy C-22® and Hastelloy C-276® are registered trademarks of Haynes International, Ir PEEKTM is a trademark of Victrex plc. Inconel® and Monel® are registered trademarks of Special Metals Corporation. Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C. SilcoNetTM 1000 is a trademark of SilcoTek Compration.

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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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