

Steam Heated, Vaporizing Pressure Regulator Pressure Reducing, Stainless Steel



## Value Proposition:

The AVR3 Series regulator is designed to heat and/or vaporize a gas or liquid sample before entering an analyzer system.

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



## **Contact Information:**

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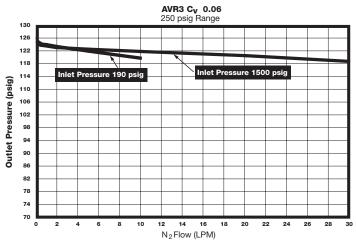


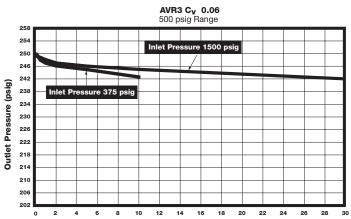
## **Product Features:**

- Ultra low internal volume
- Cleaned for O<sub>2</sub> service is standard
- Convoluted Hastelloy C-22® diaphragm for superior strength and corrosion resistance provides outlet pressure stability with changes in flow
- Integral diaphragm stop provides additional measure of safety
- Field serviceable heat transfer element
- Express Service Program available noted green italic print

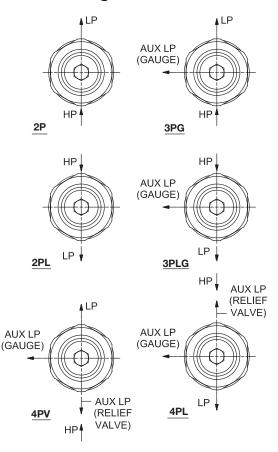


#### Flow Curves

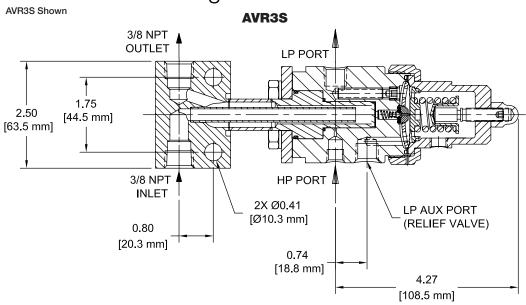




## Porting Guide



## Dimensional Drawing



## Ordering Information

Build an AVR3 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Lead Time Configurations

Blue = Extended Lead Time Configurations Green Italic = Express Service Program (ESP) For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo











Sample: AVR3 Finished Order: AVR3SK1X3PG



S = 316L Stainless Steel

H = Hastelloy C-22® M = Monel®

**Seat Material** 

= PCTFE = PEEKTM V = Vespel® **Pressure Range** 

= 0 - 10 psig (max inlet 250 psig)

1 - 30 psig 2 - 60 psig

3 - 100 psig = 10 - 250 psig

= 20 - 500 psig

**Outlet Gauge** 

03 = 0 - 30 psigOL = 0 - 60 psiq

01 = 0 - 100 psig= 0 - 400 psig

= 0 - 600 psig

= No Gauge

**Porting Configuration** See Notes below.

blank = 2 Port

3PG = 3 Port Relief Valve or Gauge

4 Port Relief Valve and 4PV Gauge Port

2PL = 2 Port Reverse Entry

3 Port Reverse Entry Relief

Valve or Gauge Port

4 Port Reverse Entry Relief

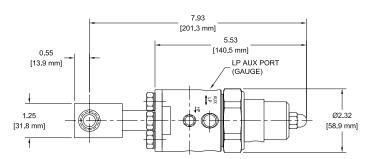
Valve and Gauge Port

**Optional Features** RV = Relief Valve

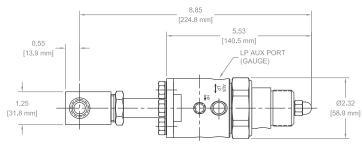
Additional configurations available upon

Notes: Veriflo reserves the right to plug NPT ports. If a true ported body is required, please contact Customer Service. High pressure port standard is 1/8" NPT Female. 1/4" NPT Female on auxillary outlet ports.

#### **AVR3S**



#### AVR3H AND AVR3M



## 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 (std), PEEK™ or Vespel®	
Carrier Options	316L Stainless Steel (std) or Hastelloy C-22®	
Heater Seal	PEEK™	
O-ring Back-up	FKM	
Non-wetted		
Cap	303 Stainless Steel	
Nut	316L Stainless Steel	

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Maximum Inlet	3,500 psig (241 barg) or 250 psig (17.2 barg) for 10 psig range
Outlet Options	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)
Temperature	based upon seat option
PCTFE	150°F (66°C)
PEEK™	275°F (135°C)
Vespel®	500°F (260°C)
Maximum Steam Supply	600 psig, 500°F (41 barg, 260°C)

Functional Performance		
Design		
Burst Pressure	10,500 psig (724 barg)	
Proof Pressure	5,250 psig (362 barg)	
Flow Capacity	C <sub>V</sub> 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)	

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

#### OFFER OF SALE:

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