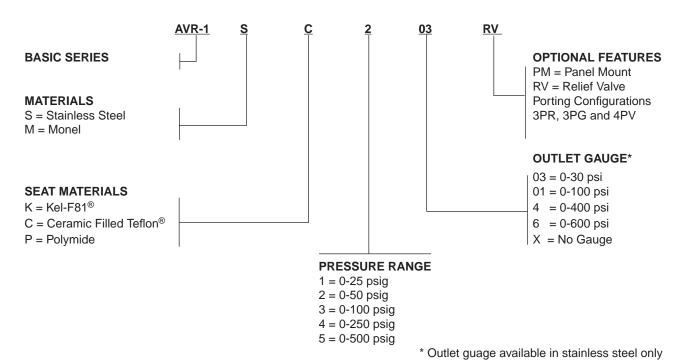
Ordering Information



REPAIR PARTS

Repair Parts

See Spare Parts List.



PCTFE (formerly known as Kel-F81®, a registered trademark of 3M Company. Hastelloy C22® is a registered trademark of Haynes.

Pressure Reducing Regulator



technological leadership by design an ISO 9001 certified company Steam Heated Vaporizing Pressure Reducing Regulator

The AVR-1 Series steam heated vaporizing regulator is designed to heat and/or vaporize a gas or liquid sample before entering an analyzer system.



features

- Low internal volume
- ▶ Standard Hastelloy C22® diaphragm for superior strength and corrosion resistance
- Convoluted diaphragm provides outlet pressure stability with changes in flow
- Integral diaphragm stop provides additional safety measure
- Meets NACE standard MR-01-75

materials of construction Wetted Body..... 316L stainless steel or Monel Seat PCTFE (formerly known as Kel-F81®), ceramic filled Teflon® or polyimide Seals..... Teflon® and PEEK Diaphragm Hastelloy C22® Poppet 316 stainless or Hastelloy® Poppet spring Inconel® Steam tube connection 316 SS or Monel .50" OD x .049" Nonwetted Cap 303 stainless steel Cap nut 316L stainless steel Adjusting screw 416 Stainless Steel operating conditions (241.0 bar) maximum Outlet pressure 0-25 psi (0-1.7 bar) 0-50 psi (0-3.5 bar)

functional performance

Maximum steam pressure 650 psi

Temperature of flow media . -40°F to 500°F

0-100 psi (0-7.0 bar) 0-250 psi (0-17.2 bar) 0-500 psi (0-35.0bar)

(45.0) bar

(-40°C to 260°C)

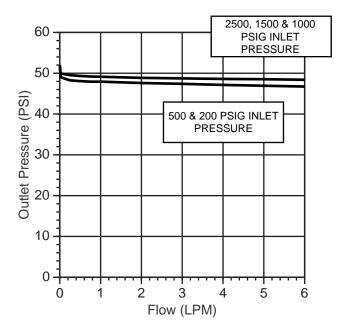
Leakage

standard connections

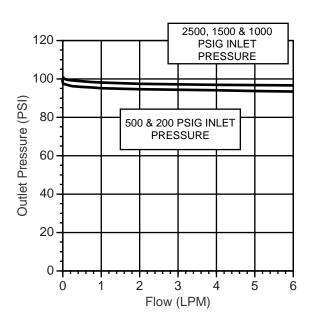
1/8" inlet and 1/4" outlet female pipe threads (NPTF)

Flow Curve

AVR-1, 0-50 psig outlet range Cv .06, Air



AVR-1, 0-250 psig outlet range Cv .06, Air



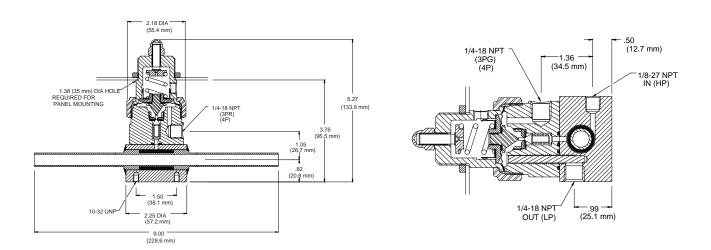
Seat Operating Parameters

Maximum Operating Limits

Seat Material	Temperature	Inlet Pressure
PCTFE (formerly Kel-F81®)	150°F (66°C)	3500 psig (241 bar)
Ceramic filled Teflon®	275°F (135°C)	3500 psig (241 bar)
Polyimide	600°F (315°C)	3500 psig (241 bar)

The above temperatures are that of the flow media. If the ambient temperature exceeds 400°F (204°C), please consult the factory for advice. Polyimide is not suitable for steam service or streams containing ammonia. Materials of construction are listed on page one of this bulletin. If there are questions regarding chemical compatibility of any of these materials, please consult the factory for advice.

Cross Sectional View and Installation Dimensions

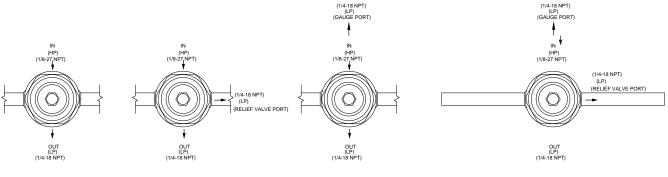


Porting Configurations

Below are the standard porting configurations that are available. One of these will need to be selected for the ordering information on page four of this bulletin.

The standard unit is equipped with a 1/8" NPT inlet port and a 1/4" NPT outlet port, located in the bottom section of the unit (2P). Extra outlet ports are 1/4" NPT.

The cross sectional drawings above illustrate the location of the extra outlet port(s) in the top section of the unit.



Porting Code: 2P Porting Code: 3PR Porting Code: 3PG Porting Code: 4PV