# VPR Series Steam Heated Vaporizing Pressure Regulator

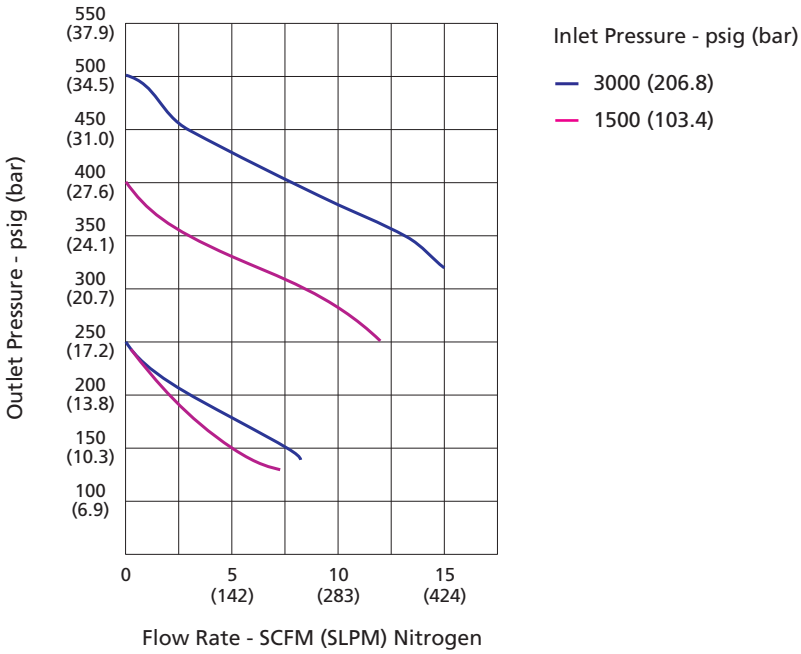
## Features

- ◎ 316L SS or Alloy 400 body optional
- ◎ Low internal volume
- ◎ Convoluted diaphragm design to improve regulation precision and cycle life
- ◎ Good thermal conductivity saves energy and cost
- ◎ With special cleaning and packaging, applicable to oxygen-enriched environments

## Technical Data

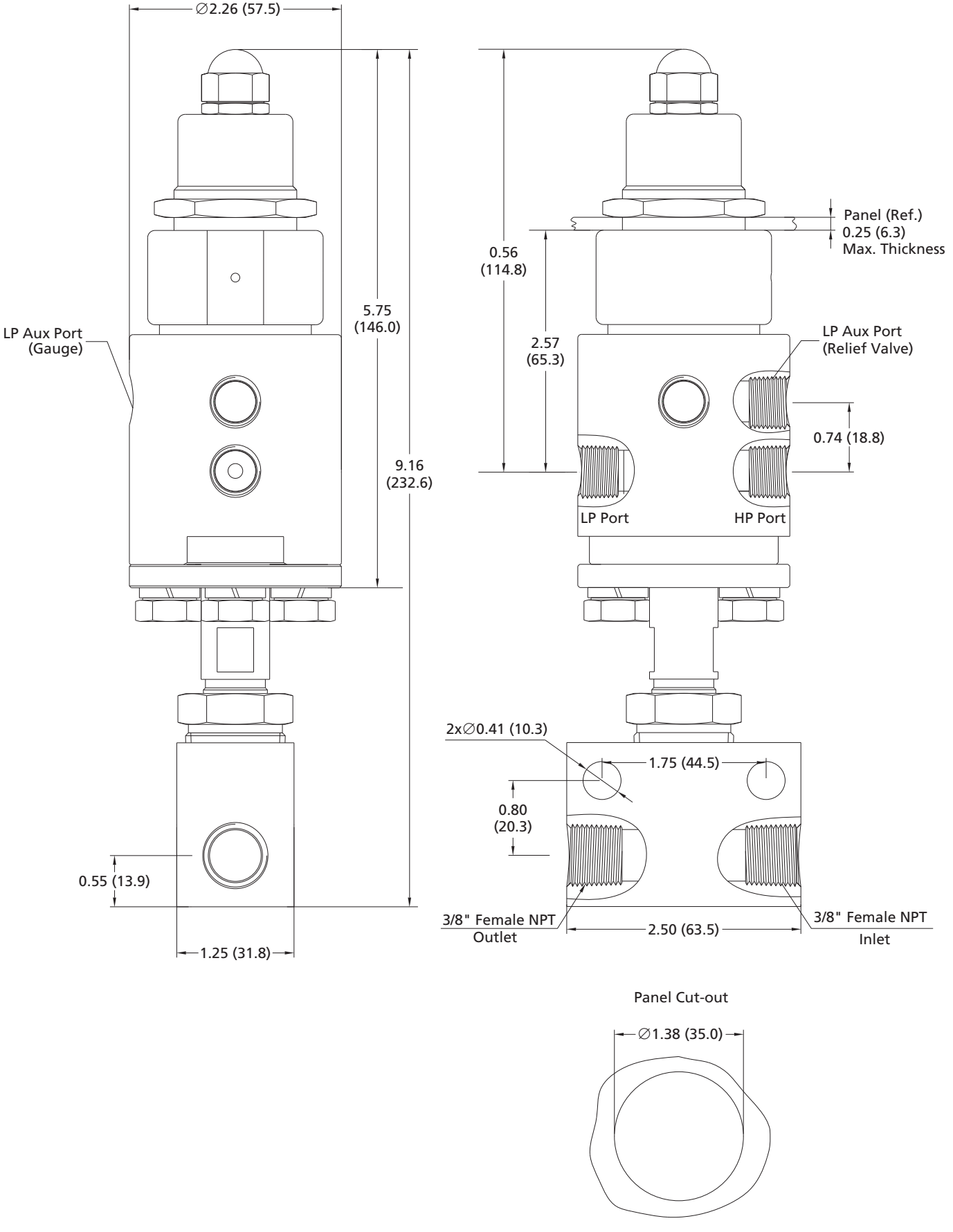
- ◎ Maximum inlet pressure: 3600 psig (248.2 bar)
- ◎ Outlet pressure range: 0~25 psig (0~1.7 bar), 0~50 psig (0~3.4 bar), 0~100 psig (0~6.9 bar), 0~250 psig (0~17.2 bar), 0~500 psig (0~34.5 bar)
- ◎ Materials of the internal components:
  Body: 316L SS or Alloy 400
  Seat: VESPEL
  Diaphragm: Hastelloy
  Poppet spring: Alloy X-750
  Lift poppet: Hastelloy
- ◎ Maximum vapor pressure and temperature: 600 psig (41 bar) and 500°F (260°C)
- ◎ Medium working temperature: -40°F~+500°F (-40°C~+260°C)
- ◎ Leak rates (helium):
  Internal $\leqslant 1x10^{-7}$ std $cm^3/s$
  External $\leqslant 1x10^{-7}$ std $cm^3/s$
- ◎ Flow coefficient (Cv): 0.06
- ◎ Weight: ≈5.5 lbs (2.5 Kg)
- ◎ Standard Connections: 1/4"female NPT for inlet and outlet port, 3/8" female NPT steam supply connections

## Typical Flow Chart

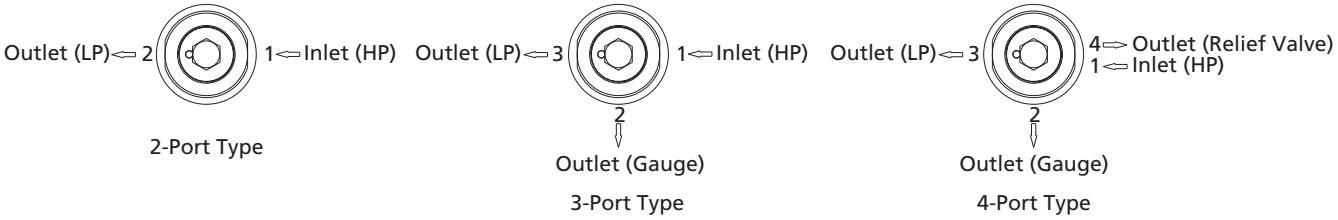


## Dimensions

Dimensions, in inches (millimeters), are for reference only.



## Port Configuration



## Part Number Description

VPR – M – 36 – 100 – 00 – 00 – B – R

| Body Material | |
|---|---|
| 6L | 316L SS |
| M | Alloy 400 |

| Inlet Pressure P1 psig (bar) | |
|---|---|
| 36 | 3600 (248.2) |

| Outlet Pressure Range P2 psig (bar) | |
|---|---|
| 25 | 0~25 (0~1.7) |
| 50 | 0~50 (0~3.4) |
| 100 | 0~100 (0~6.9) |
| 250 | 0~250 (0~17.2) |
| 500 | 0~500 (0~34.5) |

| Connection 1 | |
|---|---|
| 00 | 1/4" Female NPT |
| 01 | 1/4" Male NPT |
| 10 | 1/4" Tube Fitting |
| 11 | 3/8" Tube Fitting |
| 20 | 6 mm Tube Fitting |
| 21 | 8 mm Tube Fitting |

Other connections are available upon request

| Connection 2 | |
|---|---|
| B | With Gauge (psi/bar) |
| M | With Gauge (psi/MPa) |
| R | Relief Valve |
| P | Plug |
| 00 | 1/4" Female NPT |
| 01 | 1/4" Male NPT |
| 10 | 1/4" Tube Fitting |
| 11 | 3/8" Tube Fitting |
| 20 | 6 mm Tube Fitting |
| 21 | 8 mm Tube Fitting |

Other connections are available upon request

| Connection 3 |
|---|
| Same as Connection 1 |

| Connection 4 |
|---|
| Same as Connection 2 |

Notes:
"Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.
Examples of part number:
a. 2-port type (1 in, 1 out): VPR-6L-36-50-00-00
b. 3-port type (1 in, 2 out): VPR-6L-36-100-00-B-00
c. 4-port type (1 in, 3 out): VPR-6L-36-250-00-B-00-R