

# EX2



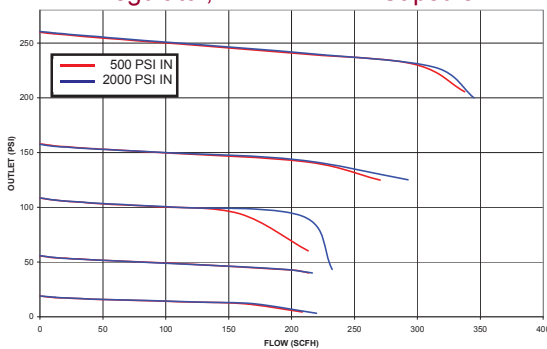
## EX2 Series Two Stage Pressure Reducing Regulator

The AURA EX2 series is designed to regulate gas or liquid in two stages of pressure control for a maximum inlet pressure of 6000 psi. The EX2's dual encapsulated seat design eliminates second stage seat failures by filtering particles generated during the assembly of peripherals and first stage parts. AURA'S dual surface surface area diaphragm provides sensitive pressure control analogous to a multi-speed automotive transmission. The two stage design eliminates outlet pressure fluctuation associated with decaying inlet pressure conditions.

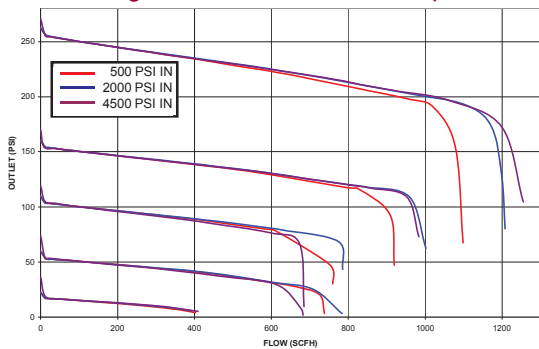
Front and rear threaded bonnets provide flexible panel mounting to minimize installation and piping costs. Complete assemblies minimize secondary assembly labor of peripherals such as gauges, fittings, valves and inlet connections.

These features make the EX2 the right choice for gas calibration standard and sample pressure control.

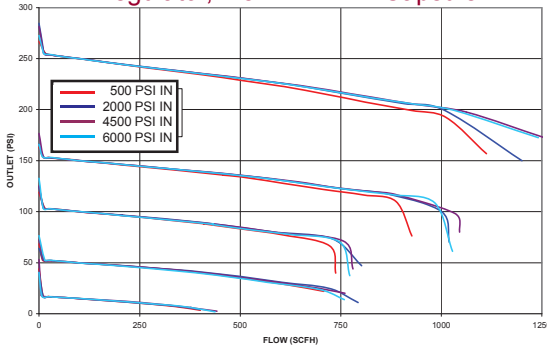
EX2 Regulator, 1.1mm PTFE Capsule®



EX2 Regulator, 1.8mm PCTFE Capsule®

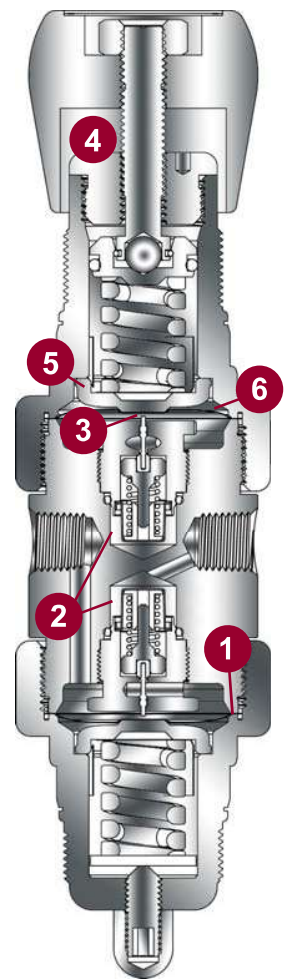


EX2 Regulator, 1.8mm PEEK Capsule®



## EX2 Features

- 1. Metal To Metal Seals**  
- $1 \times 10^{-9}$  He cc/sec leak rate
  - 2. 10 Micron Encapsulated Seat**  
-800% More filtration than disk  
-Long term performance
  - 3. Positive Seat Stop**  
-Prevents seat deformation  
-High cycle life
  - 4. Field Adjustable**  
-Bonnet cap access to spring
  - 5. Hi/Lo Diaphragm Stop**  
-Minimizes diaphragm stroke
  - 6. Dual-plane Diaphragm**  
-Sensitive at low pressures
- **Cleanroom Assembled**  
-Cleaned for O<sub>2</sub> service  
-No additional cost



Registered  
ISO 9001:2008

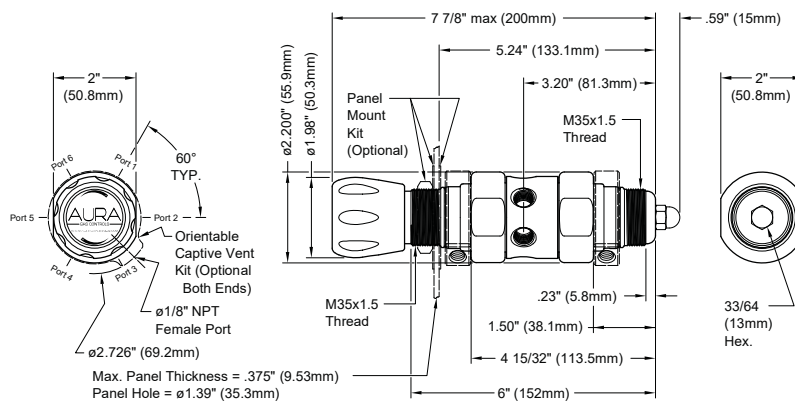
## EX2 Series Technical Data Information

### Materials of Construction

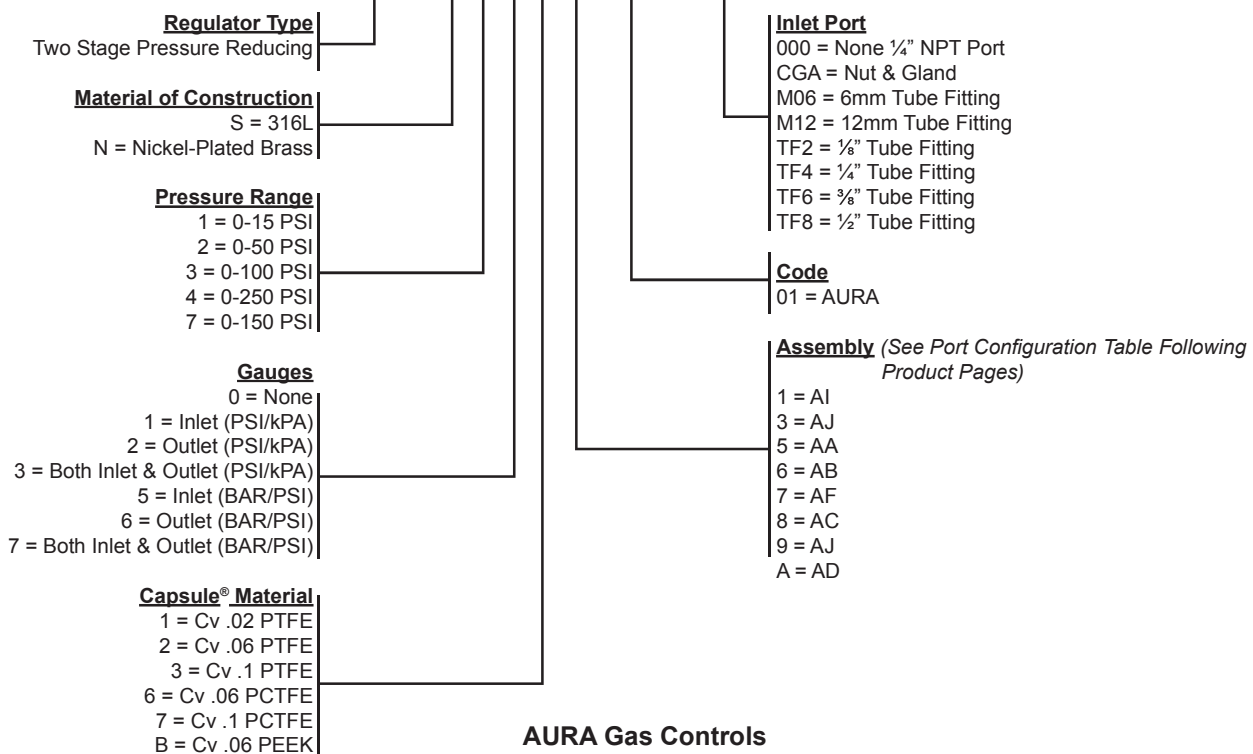
- Body and Bonnet
  - Nickel-Plated brass
  - 316L Stainless steel body & 304 Bonnet
- Diaphragm
  - 316L Stainless steel
- Seat
  - PTFE
  - PCTFE
  - PEEK
- 10 Micron Capsule® Filter
  - 316L Stainless steel
- Other Parts
  - 316L Stainless steel
  - Nickel-plated brass
- Weight
  - 3 lbs. 7.1 oz. (1.56 Kg)

### Functional Specifications

- Design pressure
  - Working pressure: 3000 PSIG PTFE
  - Working pressure: 5500 PSIG PCTFE/PEEK
  - Burst pressure: > 4x Working pressure
- Delivery options
  - 0 to 15, 50, 100, 150, 250 psig
- Flow Coefficient (Cv)
  - .02, .06, .1
- Leak rate
  - External:  $1 \times 10^{-9}$  He ccs
  - Seat: Bubble tight
- Temperature
  - PTFE: -40°F to 140°F (-40°C to 60°C)
  - PCTFE: -40°F to 150°F (-40°C to 66°C)
  - PEEK: -40°F to 275°F (-40°C to 135°C)
- Port Type
  - Process and Gauge: 1/4" FNPT



## EX2 XXXXX-01-XXX



AURA Gas Controls

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