EXT High Temperature Single Stage Pressure Reducing Regulator

The AURA EXT series is designed to regulate the pressure of gas or liquid at elevated temperatures. The EXT is available with threaded or welded connections to ensure system integrity.

EXT’s capsule seat design ensures seat reliability under harsh conditions. Proprietary machining provides surface finishes that enable metal to metal seals. AURA’S dual surface area diaphragm provides sensitive pressure control analogous to a multi-speed automotive transmission.

With six pressure ranges to 500 psi and a maximum operating temperature of 550 F the EXT regulator is an ideal choice for furnace and refinery process applications.

EXT Features

1. Metal To Metal Seals
   -1x10⁻⁹ 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. Preset Pressure Ranges
   -0-15 to 0-500 PSI

5. Hi/Lo Diaphragm Stop
   -Minimizes diaphragm stroke

6. Dual-plane Diaphragm
   -Sensitive at low pressures
EXT Series Technical Data Information

Materials of Construction
- Body and Bonnet
  - 316L Stainless steel
- Diaphragm
  - 316L Stainless steel
- Seat
  - PEEK
- 10 Micron Capsule® Filter
  - 316L Stainless steel
- Other Parts
  - 316L Stainless steel
- Weight
  - 2 lbs. 5½ oz. (1.06 Kg)

Functional Specifications
- Design pressure
  - Working pressure: 3000 PSIG PEEK
  - Burst pressure: ≥ 4x Working pressure
- Delivery options
  - 0 to 15, 50, 100, 150, 250, 500 psig
- Flow Coefficient (Cv)
  - .06
- Leak rate
  - External: 1x10⁻⁹ He ccs
  - Seat: Bubble tight
- Temperature
  - PEEK: -40˚F to 550˚F (-40˚C to 288˚C)

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Regulator Type
- High Temperature Single Stage Pressure Reducing Regulator

Material of Construction
- S = Stainless Steel

Pressure Range
- 1 = 0-15 PSI
- 2 = 0-50 PSI
- 3 = 0-100 PSI
- 4 = 0-250 PSI
- 5 = 0-500 PSI
- 7 = 0-150 PSI

Gauges
- 0 = No Gauges

Code
- 01 = AURA

Assembly
- (See Port Configuration Table Following Product Pages)
- 0 = G
- 1 = V

Outlet
- 0 = Bare Body
- 1 = ¼" Tube Fitting
- 2 = ⅜" Tube Fitting
- M = 6mm Tube Fitting

AURA Gas Controls
1.800.582.2565 • www.auracontrols.com