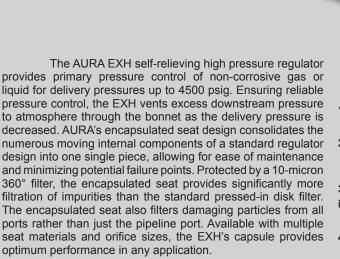
Self-Relieving High Presure Regulator



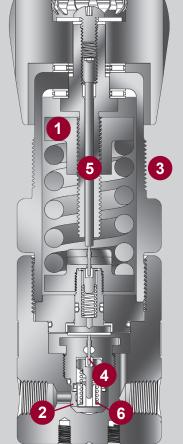
The EXH's high-load marginal spring provides reliable control to enable steady delivery pressures even at high flow rates. With its minimal installation requirements, the EXH allows the end-user the flexibility to easily panel or surface mount the regulator. When not self-relieving, the EXH provides positive shut-off enabling a helium leak-tight seal. Additionally, the EXH undergoes multiple flow and function tests as a completed assembly, including optional peripherals, to ensure the highest levels of durability and performance.

EXH Features

- Self-relieving standard
 Steady downstream pressure
- 2. 10-micron 360° filter
 Significantly more filtration of impurities than disk
- 3. Threaded bonnet with minimal installation requirements • Easily panel mounted
- 4. Multiple seat materials
- Ensures reliability by eliminating reaction with media
- 5. Non-rising stem design
 Minimal space requirements
- 6. High load marginal spring

 Tighter pressure control between flowing and non-flowing conditions





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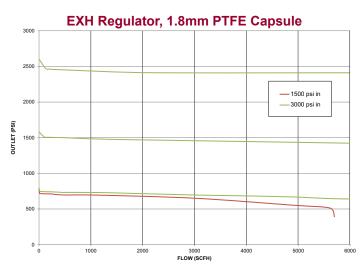
Self-Relieving High Pressure Regulator Technical Data and Product Specifications

EXHS Materials of Construction

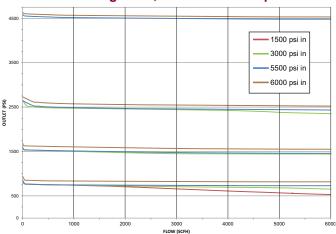
Body	316L stainless steel	Seat holder	316L stainless steel
Bonnet	304 stainless steel	Spring plate	316L stainless steel
Piston	316L stainless steel	Piston spring	17-7 stainless steel
Seat	PTFE, PCTFE, PEEK	Piston O-ring	PCTFE
10-micron 360° filter	316L stainless steel	O-ring seals	Viton
Nozzle	316L stainless steel	Piston back-up ring	PTFE
Cylinder	316L stainless steel		

Functional Specifications

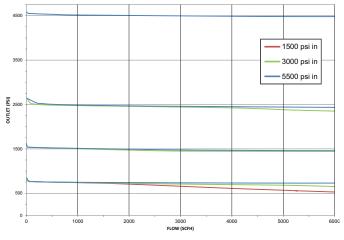
Design Pressure	 Working pressure: 3000 psig PTFE Working pressure: 5500 psig PCTFE Working pressure: 6000 psig PEEK Burst pressure: > 4x Working pressure 	Temperature	 PTFE: -40°F to 140°F (-40°C to 60°C) PCTFE: -40°F to 150°F (-40°C to 66°C) PEEK: -40°F to 275°F (-40°C to 135°C)
Maximum Inlet Pressure	 PTFE (3000 psig maximum inlet pressure) PCTFE (5500 psig maximum inlet pressure) PEEK (6000 psig maximum inlet pressure) 	Weight (bare body)	• 4lbs 12oz (2.15 kg)
Leak Rate	• External: 1x10 ⁻⁷ He ccs • Seat: 1x10 ⁻⁷ He ccs	Gauges (optional)	• 2" manufactured to ANSI/ASME B40.1



EXH Regulator, 1.8mm PEEK Capsule



EXH Regulator, 3.2mm PCTFE Capsule

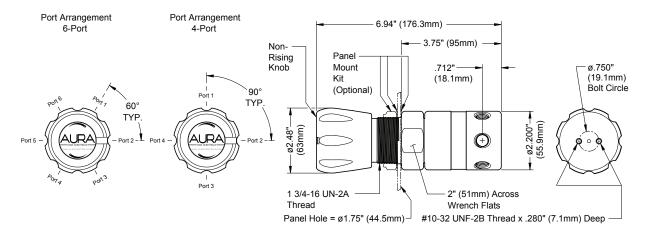


Each EXH regulator assembly includes:

- 100% helium leak check
- 100% function test
- · Silicone-free assembly
- Certificate of conformance

AURA Products are Manufactured and Assembled in the U.S.A.

Mounting and Installing Information



Ordering Information

EXH 4 5 6 7 8 - 01 - 13 14 15 - 16 17 0

Digit 4 - Material of Construction S = 316L stainless steel

Digit 5 - Pressure Range

- 1 = 0-750 psig
- 2 = 0-1500 psig
- 3 = 0-2500 psig
- 4 = 0-4500 psig*
- * Not available with PTFE seat

Digit 6 - Gauges (Major/Minor Scale)

- 0 = None
- 1 = Inlet (psig/kPa)
- 2 = Outlet (psig/kPa)
- 3 = Both inlet and outlet (psig/kPa)
- 5 = Inlet (BAR/psig)
- 6 = Outlet (BAR/psig)
- 7 = Both inlet and outlet (BAR/psig)

Digit 7 - Orifice Size and Seat

1 = Cv .02 (1.1mm) PTFE 2 = Cv .06 (1.8mm) PTFE 3 = Cv .1 (3.2mm) PTFE 6 = Cv .06 (1.8mm) PCTFE 7 = Cv .1 (3.2mm) PCTFE B = Cv .06 (1.8mm) PEEK

Digit 8 - Assembly

See the EXH Port Configuration Table on the back of this brochure for choice of assembly.

Digits 13-15 - Inlet Fitting

Cylinder Connection*

- 000 = None (1/4" female NPT) M06 = 6mm ss compression tube fitting
- M12 = 12mm ss compression tube fitting
- $TF2 = \frac{1}{8}$ " ss compression tube fitting
- $TF4 = \frac{1}{4}$ " ss compression tube fitting
- $TF6 = \frac{3}{8}$ " ss compression tube fitting
- $TF8 = \frac{1}{2}$ " ss compression tube fitting

Digit 16 - Valve Assembly

- 0 = No valve
- 1 = Diaphragm valve (not available in 0-4500 psig outlet range)

Digit 17 - Outlet Fitting

- 0 = None (1/4" female NPT)
- $1 = \frac{1}{4}$ " male NPT fitting
- $2 = \frac{1}{8}$ " ss compression tube fitting
- $3 = \frac{1}{4}$ " ss compression tube fitting
- $4 = \frac{3}{8}$ " ss compression tube fitting
- $5 = \frac{1}{2}$ " ss compression tube fitting
- 6 = 6mm ss compression tube fitting
- 7 = 8mm ss compression tube fitting
- 8 = 10mm ss compression tube fitting
- 9 = 12mm ss compression tube fitting

Accessories: Panel mount kit

EPXA0004-01-000-000 Stainless steel control station EXPV0004-01-000-1SH

Key: ss = Stainless steel

NOTE: If you are unable to find a configuration specific to your application's needs, call AURA Gas Controls directly at 800.582.2565.

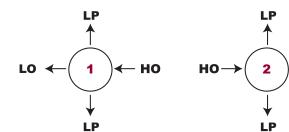
*AURA Supports all major international cylinder connections including: CGA, BS 341, DIN 477, JIS B 8246, and others available

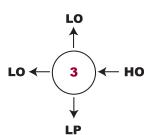


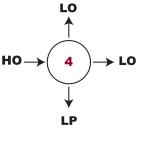
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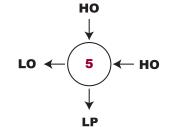


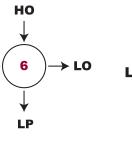
EXPSelf-Relieving High Pressure Regulator Technical Data and Product Specifications











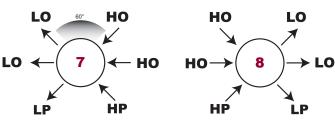
LO

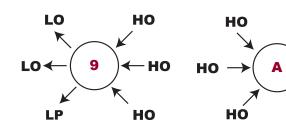
LP

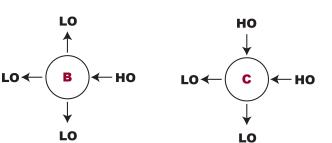
LO

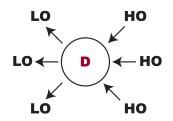
HO-

≻ LO









- Key: LO - Low Pressure Open
- LP Low Pressure Plugged
- HO High Pressure Open
- HP High Pressure Plugged



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LEX3179EXH-B