

EXB

Back Pressure Regulator



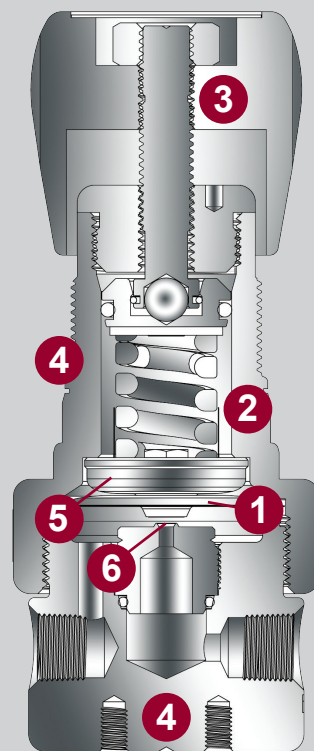
The AURA EXB back pressure regulator provides adjustable relief of excess pressure in closed loop systems caused by spikes in inlet pressure up to 500 psig. AURA's dual surface diaphragm or dynamic cartridge sensing elements increase the precision and flexibility of pressure control. This allows the end user to accurately throttle excess pressure from the system, whereas standard relief devices only provide open and close functions.

AURA's proprietary machining process yields surface finishes of 4-25 Ra designed to reduce corrosion. The AURA EXB is assembled in a Class 100 clean room as a complete assembly with all gauges, fittings, and valves attached. The complete assembly is cleaned for oxygen service and is 100% helium leak checked. Additionally, the EXB undergoes multiple flow and function tests to ensure the highest level of purity and durability.

Available with Dursan® LS inert and anti-corrosive technology that provides superior corrosive resistance versus exotic metals in highly acidic or caustic applications, the AURA EXB back pressure regulator is the choice for accurate and reliable excess pressure control.

EXB Features

- 1. Dynamic cartridge or diaphragm sensing element**
 - Flexible solution for application
- 2. Field access to adjusting spring**
 - Change control range in field
- 3. Field access to adjusting screw**
 - Lock pressure setting
- 4. Threaded bonnets and rear mounting holes**
 - Able to panel or surface mount
- 5. Hi/Lo diaphragm stop**
 - Extends diaphragm life cycle
- 6. Multiple seat materials**
 - Ensures reliability by eliminating reaction with media



(Diaphragm model shown)



EXB Back Pressure Regulator

Technical Data and Product Specifications

Materials of Construction

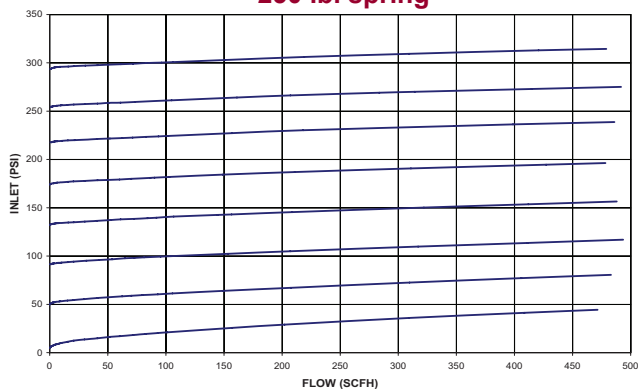
	EXBS	EXBC	EXBG
Body	316L stainless steel	Chrome-plated brass	Dursan® LS
Bonnet	304 stainless steel	Chrome-plated brass	Dursan LS
Sensing Element	316L stainless steel	316L stainless steel	Dursan LS
Seat	PTFE, PCTFE, FKM*	PTFE, PCTFE, FKM*	PTFE, PCTFE, FKM*
Nozzle	316L stainless steel	Brass	Dursan LS
O-Ring Nozzle Seal	PTFE	PTFE	PTFE
Dynamic Cartridge O-Ring (Piston)	FKM	FKM	FKM

**Only available on dynamic cartridge models*

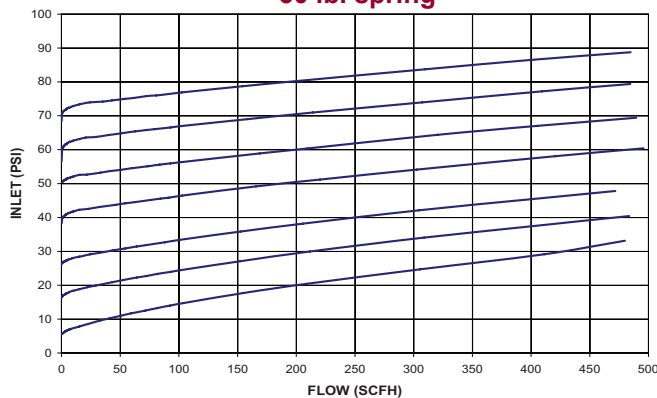
Functional Specifications

Maximum Inlet Pressure	- Diaphragm (500 psig maximum inlet pressure) - Dynamic Cartridge (650 psig maximum inlet pressure) - 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) - FKM: -40°F to 140°F (-40°C to 60°C)
Leak Rate	- External: 1×10^{-9} He ccs (diaphragm model) - External: 1×10^{-7} He ccs (dynamic cartridge model) - Seat: 1×10^{-7} He ccs	Weight (bare body)	2 lbs. 5.5 oz. (1.06 kg)
Flow Coefficient (Cv)	0.17	Gauges (optional)	2" manufactured to ANSI/ASME B40.1

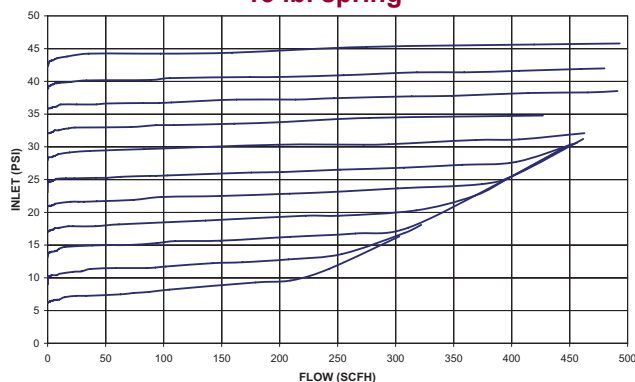
**EXB Regulator, PCTFE, diaphragm,
250 lb. spring**



**EXB Regulator, PTFE, diaphragm,
50 lb. spring**



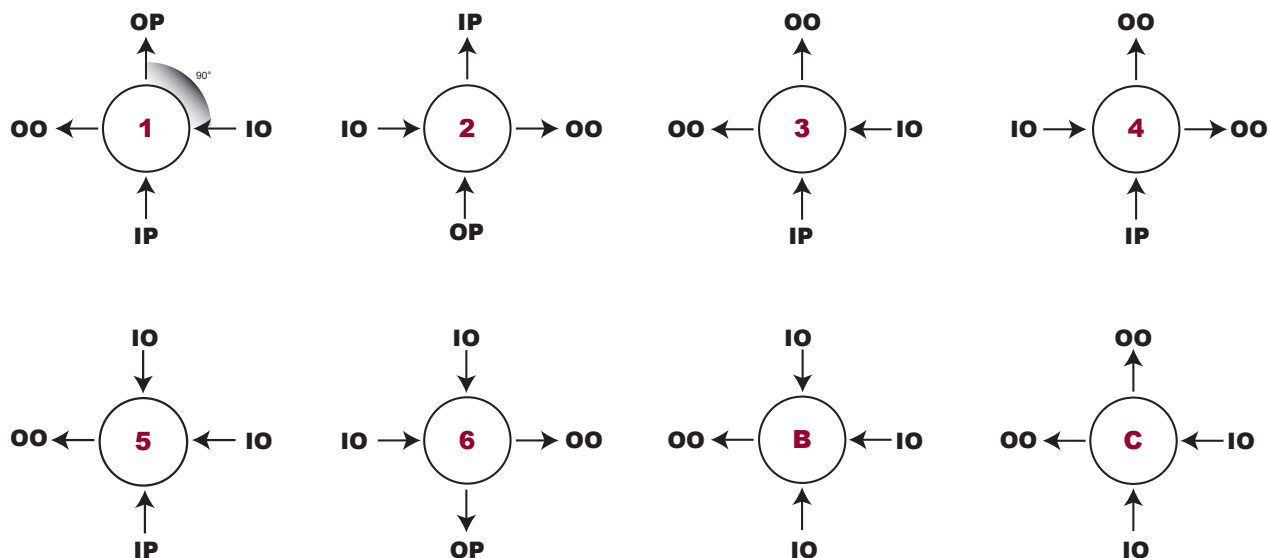
**EXB Regulator, FKM, dynamic cartridge,
15 lb. spring**



Each EXB regulator assembly includes:

- Class 100 cleanroom assembly
- 100% helium leak check
- Cleaning for oxygen service
- 100% function test
- Silicone-free assembly
- Certificate of conformance
- Certificate of cleaning for oxygen service

EXB Back Pressure Regulator Port Configuration Table



Key:

OO - Outlet Open
OP - Outlet Plugged
IO - Inlet Open
IP - Inlet Plugged



1501 Harpers Road, Virginia Beach, Virginia 23454
800.582.2565 • www.AURACONTROLS.com
Manufactured and Assembled in U.S.A • Registered ISO 9001
Dursan® is a registered trademark of SilcoTek Corporation.



LEX3179EXB-H