



Cryogenic Economizers

ECL502 Series



Application

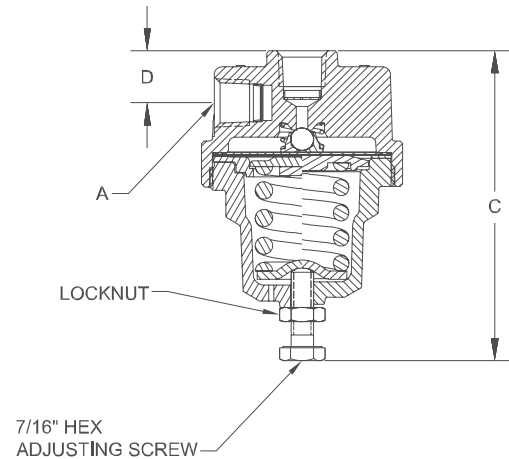
ECL502 series cryogenic economizers are designed to be used as pressure reducing valves to automatically maintain a constant inlet or back pressure, normally closed at pressures below its set point and open at pressures above its set point. The ECL502 is primarily designed to assist in maintaining a desired system pressure ideal for Nitrogen, Oxygen, Argon and other cryogenic cylinder applications with a 100% performance improvement over RegO's ECLXXX series. ECL502 series offers outstanding performance for maintaining LNG fuel line pressure.

Features

- ECL502 series design provides premium flow characteristics allowing for fast pressure reduction while maintaining sensitive flow control at lower pressure settings.
- All materials of construction- copper alloy, PTFE and stainless steel were selected for compatibility with cryogenic service.
- 150 count mesh Monel screens installed into the inlet and outlet ports prevent debris from entering or damaging any downstream components.
- Interchangeable with existing cryogenic economizer units.
- Bi-directional flow for LNG fuel systems
- Temperature range: -320°F to +165°F (-196°C to +74°C)
- Max inlet pressure:
- Low Pressure Models ≤175: 375 psig (≤ 12,1: 25.3 barg)
- High Pressure Models >175: 550 psig (> 12,1: 37.9 barg)
- Pressure setting range: 10-350 psig (0.7-24.1 barg)
- Clean for oxygen service per CGA G-4.1
- Design in accordance with ECE R110



ECLSeries



Materials

Body	Brass
Diaphragm Liner	PTFE
Poppet Seat	Stainless Steel
Adjusting Screw	Stainless Steel
Bonnet	Brass
Screen	Monel
Diaphragm	Bronze
Springs	Stainless Steel

Ordering Information

Part Number	Inlet / Outlet Connections (F/NPT) A	Width B	C	D	E	Operating Range (psig)
ECL502-22	¼" NPT	2.25" 57 mm	3.5" 89 mm	.58" 15 mm	1" 25 mm	10-60 psig 0.7 - 4.1 barg
ECL502-100						50 - 175 psig 3.4 - 12.1 barg
ECL502-123						
ECL502-140						
ECL502-175						
ECL502-325						150 - 350 psig 10.3 - 24.1 barg

*Contact sales representative for additional settings.