

# 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-points 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 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  $\leq 175$ : 375 psig ( $\leq 12,1$ : 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
- Designed in accordance with & approved by ECE R110

### 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 (FNPT) A	Width B	C	D	E	Operating Range (psig)
<a href="#">ECL502-22</a>	1/4" NPT	2.25" 57 mm	3.5" 89 mm	.58" 15 mm	1" 25 mm	10-60 psig 0.7 - 4.1 barg
<a href="#">ECL502-100</a>						50 - 175 psig 3.4 - 12.1 barg
<a href="#">ECL502-123</a>						
<a href="#">ECL502-140</a>						
<a href="#">ECL502-175</a>						
<a href="#">ECL502-325</a>	150 - 350 psig 10.3 - 24.1 barg					

\*Contact sales representative for additional settings.



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