

# LC (Cryogenic Cylinder-Gas Withdrawal)

Western Innovator LC Manifolds are designed to regulate and monitor vaporized gas from cryogenic cylinders. Convenient and easy to use, the system automatically changes over when the primary cylinder bank is depleted. Simply rotate the control lever to reset the unit.

A self-contained alarm system alerts the user to the system's current status. A green light indicates the service bank is functioning and the reserve bank is ready for service. A red light signals that the system has changed over and one or both banks are depleted.

## specifications

- Automatic Analog System
- Gas withdrawal from Liquid Dewars
- CSA Approved Power Source Included
- Maximum inlet pressure: 350 psig
- Maximum flow rate:
  - LC 750 scfh
  - LCHP 800 scfh
- Adjustable line regulator:
  - LC 40-85 psig
  - LCHP 40-180 psig
- Manifold outlet: 1/2" NPT male
- Relief valve outlet: 1/4" NPT male
- 72" Cryogenic pigtails with check valves
- Minimum inlet pressure
  - LC 125 psig
  - LCHP 250 psig
- LC Series for use with 235 psig relief valve Dewars
- LCHP Series for use with 350 psig relief valve Dewars
- Connects to remote alarms systems (Up to 3 amps 30 VDC or 2 amps 250 VAC)



**Example:** LC-7-2 = Nitrogen (7=CGA-580) Manifold for 2 Liquid Cylinders.

## HOW TO ORDER

Specify: Control Type (V)-Service (W)-Number of Cylinders (X)-Mounting (Z)			
<b>Example: LC-3-4 represents LC with Argon gas service for 2 cryogenic cylinders per side which is mounted on the wall.</b>			
CONTROL TYPE (V)	GAS SERVICE (W)	# OF CYL'S (X)	MOUNTING (Z)
LC (40-85 psig)	(3) Argon (4) Carbon Dioxide	CGA-580 CGA-320	<b>BLANK</b> = Wall mount <b>F</b> = Floor mounted
LCHP (40-180 psig) (Nitrogen units only are adjustable - 40-210 psig)	(5) Helium (7) Nitrogen (8) Nitrous Oxide (9) Oxygen	CGA-580 CGA-580 CGA-326 CGA-540	

**Note:** Manifold system flow is limited by the max. flow capacity of the liquid cylinder. Consult cylinder manufacturer for flow data. System flow capacity may be increased with the addition of liquid cylinders.

**Note:** To maximize flow performance when more than one cylinder is used, pigtails should be used to connect the vent lines to ensure equalized cylinder pressure.