

# LC3 MANIFOLD

SAFE AND CONVENIENT LIQUID CYLINDER MANIFOLD

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Chart's LC3 Manifold is a three position dewar supply station for standard (160 to 240 liter) Dura-Cyl® Liquid Cylinders. Liquid cylinders are often the only cryogenic supply option due to available space and configuration. The LC3 Manifold is an efficient, economic way to avoid a bulk tank or MicroBulk tank and an extensive vacuum jacketed piping installation. All three vent lines are tied together to ensure the liquid cylinders drain at approximately the same level minimizing operator effort. Typical applications include cryosaunas, dosers, cryo ice cream, cryo bio, shrink fitting metal, metal cryo tempering, HALT/HASS testing and cryogenic research.



*\*Non-VJ vent manifold not shown in picture*

## PRODUCT HIGHLIGHTS

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- VIP manifold for up to 3 liquid cylinders
- Safe – eliminates the need for end-user tank connecting & disconnecting of cylinders
- Flexible LN<sub>2</sub> Supply – provides reserve supply with single or equal liquid draw from 2 or all 3 cylinders
- Safe – non-VJ vent manifold pipes away vent gas and/or balances tank pressures for equal liquid withdrawal
- Flexible – order VIP final supply length as needed
- Includes all relief valves
- Plug and Play Installation
- Indoor or outdoor installation
- No pipe/connection sweating
- Clean look – all stainless steel construction

*\*Chart Vacuum Technology® (CVT 10/20):  
10 year limited vacuum insulated pipe  
warranty, 20 year design life.*



*Innovation. Experience. Performance.™*

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## System Specifications

<b>Maximum Allowable Working Pressure</b>	150 psi
<b>Number of liquid cylinders</b>	2 to 3
<b>Outlet</b>	½" MVIP Pro® female bayonet
<b>Inlet (liquid cylinder to manifold)</b>	(2) to (3) ½" x 4' C-Flex™

### LC3 Manifold Kit – P/N 21107369

Includes:

- VJ manifold kit
- Vent manifold kit

### VJ Manifold Kit – P/N 20953568

Includes:

- VJ manifold
- (3) ½" Bronze valves with integral SRVs
- (3) ½" ID x 4 ft. long VJ transfer hoses
- (3) ½" Street elbows
- (3) ½" MPT x 1/2" OD flare connectors



### Vent Manifold Kit – P/N 20953569

Includes:

- Vent manifold
- (3) ½" Brass valves
- (3) ½" ID x 4 ft. long non-VJ transfer hoses
- (3) ½" MPT x 1/2" OD flare connectors

