



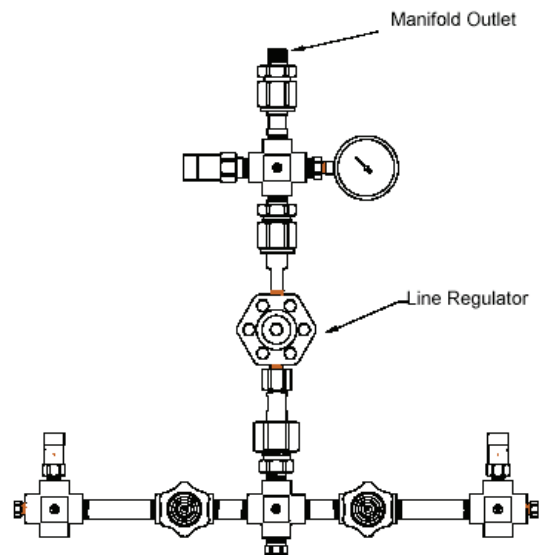
**SDLA - Series  
Manual Changeover Manifolds for Portable Bulk Cylinders**

The SDLA - Series manual changeover manifold systems are cleaned, tested and prepared for the indicated gas service and are built following National Fire Protection Association and the Compressed Gas Association guidelines. The manifolds are specially designed to regulate and monitor vaporized gas from cryogenic liquid cylinders. When the gas from the service bank of cryogenic cylinders is depleted a manual valve can be opened to permit the gas to flow from the reserve cryogenic cylinders. The manifold consists of an adjustable cryogenic line regulator, 72" cryogenic flexible pigtails with check valves, rigid wall mounted headers, a port for optional pressure switch and complete mounting hardware.

The SDLA - Series manifold should be installed in accordance with guidelines stated by the National Fire Protection Association, the Compressed Gas Association, OSHA, Canadian Standards Associations, and all applicable local codes. The Carbon Dioxide and Nitrous Oxide manifolds should not be placed in a location where the temperature will exceed 120°F (49°C) or fall below 20°F (-7°C). The manifolds for all other gases should not be placed in a location where the temperature will exceed 120°F (49°C) or fall below 0°F (-18°C). A manifold placed in an open location should be protected against weather conditions. During winter, protect the manifold from ice and snow. In summer, shade the manifold and cylinders from continuous exposure to direct rays of the sun.

**MANIFOLD OPERATION**

The manifold control includes the following components and features: regulator, 72" flexible pigtails with check valves, header valves, and two header crosses. Gas flows through the manifold to the header valve and then through the regulator. Final delivery pressure is controlled by the manifold regulator. As the cryogenic cylinders deplete, the cryogenic cylinder pressure gauge along with any alarm system (if installed), will indicate that the bank of cylinders should be changed. After replacing empty cryogenic cylinders, the manifold is immediately ready for service.



**Features**

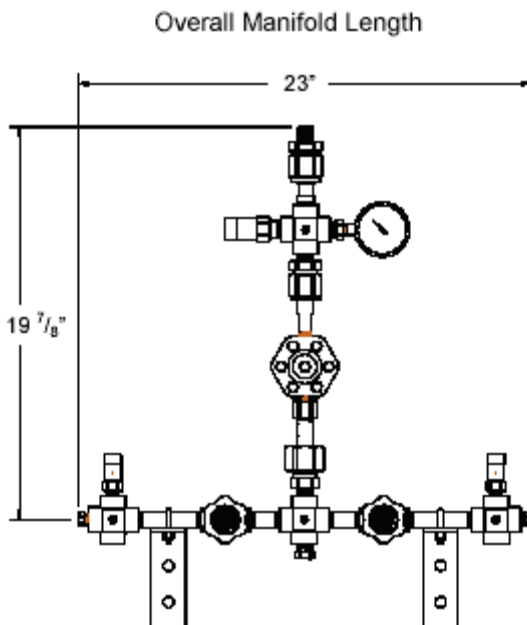
- Available for 2,3, or 4 cylinders
- Includes high quality cryogenic master valves for low temperature operation.
- To maximize flow performance when more than one cylinder is used, pigtails should be used to connect the vent lines to ensure equalized cylinder pressure.
- Available for the following gases: Argon, Carbon Dioxide, Helium, Nitrogen, Nitrous Oxide, Oxygen.
- Optional alarm kit, SDLA-AK
- Constructed of brass pipe and tees, labeled for indicated gas service.
- Complete wall mounting hardware and operating instructions

**Specifications**

- Adjustable line regulator: 40-100 PSIG - SDLA  
80-210 PSIG - SDLAHP
- Minimum inlet pressure: 125 PSIG - SDLA  
250 PSIG - SDLAHP
- Maximum inlet pressure: 350 PSIG
- Maximum flow: 750 SCFH - SDLA  
800 SCFH - SDLAHP
- Manifold outlet: 1/2" NPT male
- Line relief valve outlet: 1/2" NPT female
- Inlet relief valve outlets: 1/4" NPT female
- 72" cryogenic pigtails with check valves (nylon inner core with polyester braid) maximum working pressure 1375 PSIG.



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**How to Order:** Specify; Control type (W) - Service (X) - Number of Cylinders (Y) Mounting (Z)

Control Type (W)	Gas Service (X)	# of Liquid Cylinders (Y)	Mounting (Z)
SDLA All Gases: 40 - 100 psig	(3) Argon CGA-580 (4) Carbon Dioxide CGA-320 (5) Helium CGA-580 (7) Nitrogen CGA-580		BLANK = Wall Mount (Standard)
SDLAHP All Gases: 80-210 psig	(8) Nitrous Oxide CGA-326 (9) Oxygen CGA-540		F = Floor mount (floor stand included)

