



Specialty Gas Manifolds

Model S7000l Changeover Manifold

Model S7000 Hp Changeover Manifold

Model S9000 Hp Changeover Manifold

Scale Based Dewar Switching System

Series 3500 Lab Gas Panels

Sliq Liquid Cylinder Changeover Manifold

Model S7000L Automatic Liquid Cylinder Gas Changeover Manifold

Acme Model S7000L Automatic Liquid Cylinder Gas Changeover Manifolds are designed to eliminate system downtime by ensuring uninterrupted gas flow from two banks of cryogenic liquid gas cylinders. High and low pressure models are available.

Model S7000L manifolds are a more cost effective option for users who desire the performance features of the Model SLIQ manifolds, but do not require an enclosed unit or local indicating lights.

Specifications

Maximum Inlet Pressure	350 PSIG
Maximum Outlet Pressure	
High Pressure Unit	175 PSIG
Low Pressure Unit	75 PSIG
Connections	
Inlet	CGA
Outlet	3/8" Tube Compression Fitting
Gauges	
Brass	2 1/2"
Stainless Steel	2"
Materials of Construction	
Components	Brass or Stainless Steel
Seats and Seals	Teflon
Panel	Steel Powder Coated White
Panel Dimensions	14" H x 12" W (Other sizes available. Contact factory)

System Operation

Once liquid cylinders have been installed, the changeover manifold will first accept flow from the pre-determined primary bank. The S7000L's **control knob** points to the primary bank for easy identification. When the primary bank reaches a preset low pressure, the reserve bank automatically takes over.

Features and Benefits

Automatic Changeover	Ensures continuous gas service
Modular Construction	Ease of mounting - even in compact spaces
Three-foot Stainless Steel Flexhose	Hassle-free liquid cylinder connections
Line Regulator	Provides constant delivery pressure to point of use
Check Valves	Prevent backflow
One Knob Operation	Saves time when changing cylinders
"Gas Saver Circuit"	prevents accumulated gas from being discharged and wasted



System Design

The **changeover regulator** incorporates two regulators within a common body and a single outlet. The design is such that with different set pressures, only one liquid cylinder bank can be discharged at a time. The unit's **line regulator** provides downstream adjustment for final pressure delivery. It features a "Gas Saver Circuit", which contains check valves, set just below the cylinder relief valve setting, to allow boiloff on the reserve bank to be utilized.

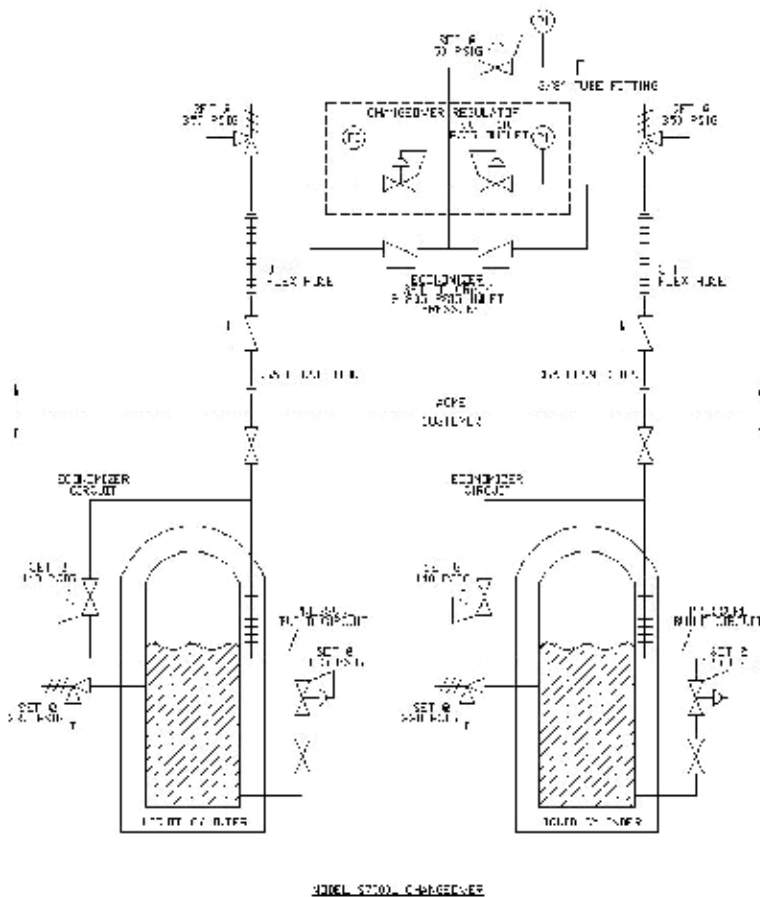
Optional Equipment

- Acme Model S504 Indicating Pressure Switch (IPS)
- Acme Model S300 Remote Alarm Box (alarm, lights and cable)
- Floor Stand

Model S7000L Automatic Liquid Cylinder Gas Changeover Manifold

Ordering Information

Model	Material	Total Number of Cylinders	Maximum Inlet Pressure	Options	Connections
S7000L	B = Brass	2	A = 230 PSIG	EL = Alarm	X X X
	S = Stainless Steel		B = 350 PSIG	IP = Indicating Pressure Switch	(Replace "XXX" with appropriate CGA Number.)
				FS = Floor Stand	
				EF = Alarm and Floor Stand	
				Blank = No Option	



Ordering Example

S7000LB2A-EL580 =

Model S7000L Automatic Liquid Cylinder Gas Changeover Manifold, brass for two liquid cylinders, with a maximum inlet pressure of 230 PSIG, and an alarm, equipped for inert service

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Model S7000 Hp Automatic Changeover Manifold

System Design

The **changeover regulator** incorporates two regulators within a common body and a single outlet. The design is such that with different set pressures, only one cylinder bank can be discharged at a time. The unit's **line regulator** provides downstream adjustment for final pressure delivery.



Acme Model S7000 Automatic Changeover Manifolds are designed to eliminate system downtime by ensuring uninterrupted gas flow from two banks of compressed gas cylinders. Model S7000 manifolds are identical in function and performance to Model S9000 manifolds, however, they are not enclosed, but rather mounted to a steel panel.

Model S7000 manifolds are a more cost effective option for users who desire the performance features of the S9000 manifolds, but do not require an enclosed unit.

Specifications

Maximum Inlet Pressure	3,000 PSIG
Maximum Outlet Pressure	100 PSIG
Connections	
Inlet	CGA
Outlet	1/4" Tube Compression Fitting
Gauges	
Brass	2 1/2"
Stainless Steel	2"
Materials of Construction	
Components	Brass or Stainless Steel
Seats and Seals	Teflon and Viton
Panel	Steel Powder Coated White
Panel Dimensions	14" H x 12" W (Other sizes available. Contact factory)

Features and Benefits

Automatic Changeover	Ensures continuous gas service
Modular Construction	Ease of mounting - even in compact spaces
Three-foot Stainless Steel Flexhose	Hassle-free cylinder connections
Line Regulator	Provides constant delivery pressure to point of use
Check Valves	Prevent backflow
One Knob Operation	Saves time when changing cylinders

System Operation

Once cylinders have been installed, the changeover manifold will first accept flow from the pre-determined primary bank. The S7000's **control knob** points to the primary bank for easy identification.

When the primary bank reaches a preset low pressure, the reserve bank automatically takes over. To replace the empty cylinder bank, the operator simply turns the control knob to switch priority.

Optional Equipment

- Acme Model S300 Remote Alarm Box (alarm, lights and cable)
- Isolation Valves
- Explosion-proof Construction
- Vent Valves

Model S7000 Hp Automatic Changeover Manifold

Ordering Information

<u>Model</u>	<u>Material</u>	<u>Total Number of Cylinders*</u>	<u>Options</u>	<u>Connections</u>	
S7000	E = Brass	2	EL = Alarm	XXX	Contact factory for the following options: I = Isolation Valve V = Vent Valve
		4			
	S = Stainless Steel	6	EX = Explosion-proof		
		8	with Alarm		
		10			
		12			
		14			
		16	Blank = No Option	(Replace “XXX” with appropriate CGA number.)	

* Total number of cylinders includes primary and reserve.
Example: 4 cylinders = 2 primary, 2 reserve.

Standard changeover systems are configured in multiples of two. Contact factory for details on special configurations.

For total number of cylinders greater than two, please specify if individual cylinder station valves are required in header.

Ordering Example

S7000B2-EL-580 =

Model S7000 Automatic Changeover Manifold, brass for two cylinders,

Model S9000 Automatic Changeover Manifold



Acme Model S9000 Automatic Changeover Manifolds are designed to eliminate system downtime by ensuring uninterrupted gas flow from two banks of compressed gas cylinders. They are ideal for high pressure applications in demanding environments. The S9000 manifolds' operation is similar to that of the Model S7000 manifolds, however, the S9000 manifolds are designed with an enclosure that protects the unit from the effects of a harsher environment.

Specifications

Maximum Inlet Pressure	.3,000 PSIG
Maximum Outlet Pressure	.100 PSIG
Connections	
Inlet	.CGA
Outlet	.1/4" Tube Compression Fitting
Gauges	.2"
Materials of Construction	
Components	.Brass or Stainless Steel
Seats and Seals	.Teflon and Viton
Enclosure	.ABS Plastic
Enclosure Dimensions	.10" H x 7" W x 6" D

System Design

The **changeover regulator** incorporates two regulators within a common body and a single outlet. The design is such that with different set pressures, only one cylinder bank can be discharged at a time. The unit's **line regulator** provides downstream adjustment for final pressure delivery.

System Operation

Once cylinders have been installed, the Changeover Manifold will first accept flow from the pre-determined primary bank. The unit's **control lever** points to the primary bank for easy identification.

When the primary bank reaches a preset low pressure, the reserve bank automatically takes over. To replace the empty cylinder bank, the operator simply turns the control lever to the opposite side to switch priority.

Optional Equipment

- Acme Model S300 Remote Alarm Box (alarm, lights and cable)
- Explosion-proof Construction
- Isolation Valves
- Vent Valves

Features and Benefits

Automatic Changeover	.Ensures continuous gas service
Modular Construction	.Ease of mounting - even in compact spaces
Three-foot Stainless Steel Flexhose	.Hassle-free cylinder connections
Line Regulator	.Provides constant delivery pressure to point of use
Check Valves	.Prevent backflow
One Lever Operation	.Saves time when changing cylinders

Model S9000 Automatic Changeover Manifold

Ordering Information

<u>Model</u>	<u>Material</u>	<u>Total Number of Cylinders*</u>	<u>Options</u>	<u>Connections</u>	
9S000	B = Brass	2	EL = Alarm	X X X	Contact factory for the following options: I = Isolation Valve V = Vent Valve
		4			
		6			
	S = Stainless Steel	8	EX = Explosion-proof with Alarm	(Replace “XXX” with appropriate CGA number.)	
		10			
		12			
		14			
		16	Blank = No Option		

*Total number of cylinders includes primary and reserve.

Example: 4 cylinders = 2 primary, 2 reserve.

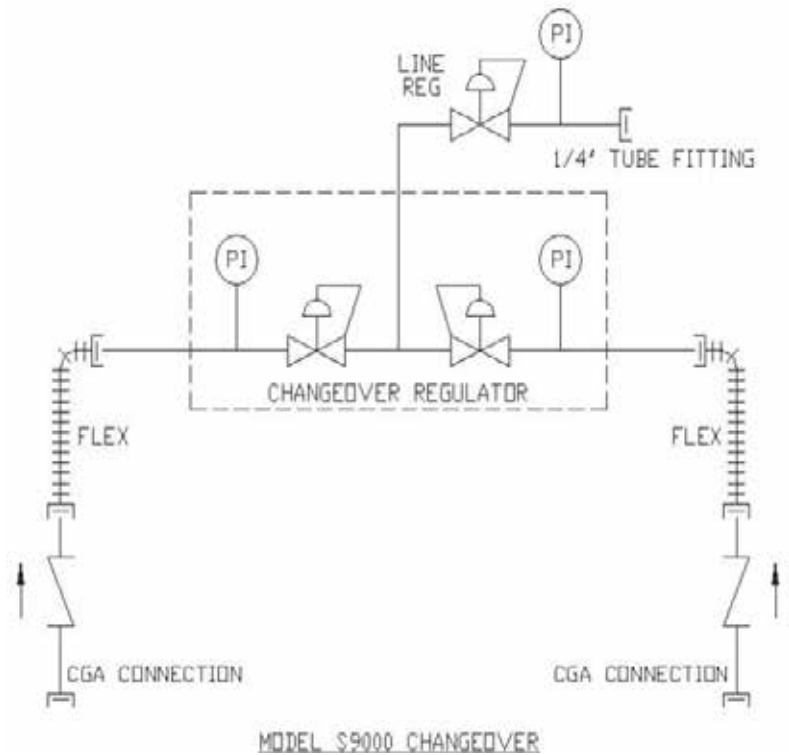
Standard changeover systems are configured in multiples of two.
Consult factory for details on special configurations.

For total number of cylinders greater than two, please specify if individual cylinder station valves are required in header.

Ordering Example

S9000B2-EL-580 =

Model S9000 Automatic Changeover Manifold, brass for two cylinders, with alarm, equipped for inert service



Scale-Based Dewar Fill Station

Acme Cryogenics’ Scale-Based Dewar Fill Station takes the guesswork out of filling a dewar. Simply connect up to a dewar and N2 vent line, then allow our reliable weight-based control system to automatically fill the dewar.

Measuring the weight of the liquid in the Dewar is the most accurate method of detecting the amount of liquid nitrogen to complete the fill.

SPECIFICATIONS

Power Supply	120VAC / Low Amp
Controller Dimensions	16” H X 16” W X 6” D
Platform Scale Dimensions	3” H X 36” W X 36” D
Scale Ramp	3” H X 36” W X 18” D
Scale/Ramp Material	Aluminum



FEATURES AND BENEFITS

Touch Screen Display	Simple to Operate
Weight-Based Controller	Accurately fills LN2 Dewar's
Alarm Contacts (For Optional Alarms).....	Safety
Emergency Stop ButtonTerminate ...	Liquid Flow/Shut Down System

OPTIONS

- SuperFlex Transfer Hoses
- Heavy Duty Stainless Steel Scale/Ramp Upgrade



Acme Model S3500

Acme Series S3500 Lab Gas Panels regulate gas pressure at the Point of Use. They are intended for indoor use in laboratory environments where compact equipment designs and pleasing aesthetic appearances are important.

The Model S3500 Lab Gas Panel is easy to use, with inlet connections conveniently located at each unit's top or bottom and outlet connections found on the front. It offers a modular design which allows it to be stacked side by side, if desired.

Model S3510 Lab Gas Panel is constructed of ABS plastic and is intended for wall mounting. It includes brass or stainless steel line regulators.

Acme's Model S3500 Lab Gas Panel is also available. Its smaller profile allows it to fit in tighter set-ups than the S3510, but can only support one valved outlet.

Specifications

Maximum Inlet Pressure 3500 PSIG

Outlet Pressure see ordering information

Connections

Inlet 1/4" Tube Connection Fittings

Outlet..... 1/4" Tube Connection Fittings

Materials of Construction

Panel ABS Plastic (gray)

Line Regulators Brass or Stainless Steel

Tube and Fittings..... Brass/Copper and Stainless Steel

Dimensions

S3510 10"h x 7"w x 6"d

S3500 6"h x 6"w x 5"d

Ordering Information

<u>Model</u>	<u>Material</u>	<u>Number of Stations</u>	<u>Regulator Outlet Pressure/Gauge Range</u>	<u>Inlet Location</u>
S3500	B = Brass	1	A = 0-25 PSIG / 0-30 PSIG	T = Top
S3510	S = Stainless Steel	2*	B = 0-100 PSIG / 0-200 PSIG (brass) 0-100 PSIG / 160 PSIG (SS)	B = Bottom

* only available in 3510 Model

Ordering Example

S3500S1-B-B =

Acme Model S3500 Lab Gas Panel, stainless steel, with two front valved outlets, a regulator outlet pressure of 0-100 PSIG and gauge range of 0-160 PSIG, with top inlet tubing connections.



SLIQ Automatic Liquid Cylinder Manifold



Acme Model SLIQ Automatic Liquid Cylinder Gas Manifolds provide continuous gas delivery from two banks of cryogenic liquid gas cylinders without interruption. SLIQ manifolds are ideal for low pressure applications where interruptions in gas service cannot be tolerated.

Specifications

Maximum Inlet Pressure350 PSIG

Maximum Outlet Pressure100 PSIG

Flow Capacity
1 Dewar0-325 SCFH
2 Dewars0-400 SCFH
3 Dewars0-600 SCFH

Required Power Supply110 VAC

Connections
InletCGA
Outlet1/2" MNPT

Materials of Construction
ComponentsBrass or Stainless Steel
HousingFiberglass

Dimensions15" H x 13" W x 8" D

System Design

The manifold contains a **changeover regulator**, which is supplied by the reserve cylinder bank, while the primary bank feeds directly to the **final line regulator**. The system is designed so that the reserve bank takes over flow once the primary bank's pressure falls below the changeover regulator's setting.

The direction of the **control lever**, along with **green and red LED lights**, indicate which bank is in use.

System Operation

Once cylinders have been installed, the changeover manifold will first accept flow from the predetermined primary bank.

When the primary bank reaches a preset low pressure, the reserve bank automatically takes over. Before replacing the empty cylinder bank, the user simply turns the control lever to reset the system and switch priority.

Optional Equipment

- Acme Model S300 Remote Alarm Box (alarm, lights and cable: see accessories section)
- Floor Stand

Features and Benefits

Changeover FeatureEnsures continuous service
Green and Red LED LightsAllow quick, easy monitoring of gas flow and usage
Selector ValveSaves time - makes it easy to reset system and designate priority
"Gas Saver" CircuitSaves money - prevents accumulated gas pressure from being discharged and wasted

SLIQ Automatic Liquid Cylinder Manifold

Note: When ordering, please specify if unit will be used for medical service.

Ordering Information

Model	Material	Total Number of Cylinders*	Maximum Inlet Pressure	Options	Connections
SLIQ	B = Brass S = Stainless Steel	2	A = 230 PSIG (100 PSIG Min. Inlet Required) B = 350 PSIG (200 PSIG Min. Inlet Required)	EL = Alarm FS = Floor Stand EF = Alarm with Floor Stand Blank = No Option	X X X (Replace "XXX" with appropriate CGA number.)
		4			
		6			
		For total number of cylinders greater than six, please contact factory.			

Ordering Examples

SLIQB2-A-580 =

Model SLIQ, brass, for two cylinders, with a maximum inlet pressure of 230 PSIG, equipped for inert service

SLIQB4-B-EL-540 =

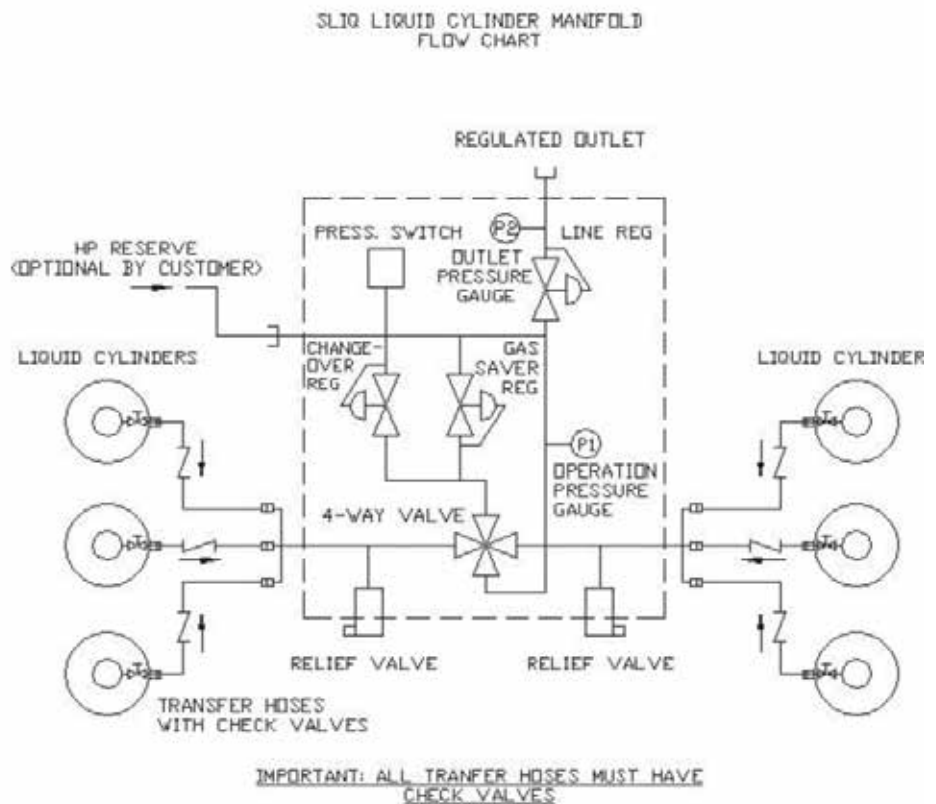
Model SLIQ, brass, for four cylinders, with a maximum inlet pressure of 350 PSIG, and an alarm, equipped for oxygen service

* Total number of cylinders includes primary and reserve.

Example: 4 cylinders = 2 primary, 2 reserve.

Standard changeover systems are configured in multiples of two. Contact factory for details on special configurations.

For total number of cylinders greater than two, please specify if individual cylinder station valves are required in header.





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