

# Automatic ChangeOver Manifold

## MODEL CB

The Model CB Automatic ChangeOver Manifold prevents downtime by automatically switching gas supply from the primary cylinder bank to the reserve cylinder bank. All components including the delivery pressure regulator are enclosed and protected inside a tamper-resistant case. The delivery pressure is initially set by the operator by opening the front cover of the case and adjusting the stem of the delivery regulator clockwise until the desired pressure is registered on the delivery pressure gauge.

A green light indicates the primary cylinder bank is functioning and the reserve cylinder bank is ready for service. A red light alerts the user that the unit has changed over and one or both banks are depleted (except on fuel gas units). The user resets the primary bank by turning the lever.



Model IG-CBI-2

### Benefits and Features

Integral alarm system is standard (except on fuel gas units), remote A/V alarm optional

All manifolds include brass constructed regulators and stainless steel double-braided flexible pigtails

Acetylene manifolds also include: pipeline dry-type flashback arrester with check valves, ASME relief valve, and individual pigtail flashback arresters

### Specifications

**Electrical:** 120 volts (AC), 1.25 amp, except for fuel gas. Power is not required for flammable gas systems.

**Heaters (Models IG-CBH):** 120 volts (AC), (2) heaters @200W, 4A max

**Manifold Outlet:** 1/2" NPT Male

**Relief Valve Outlet:** 1/4" NPT Male

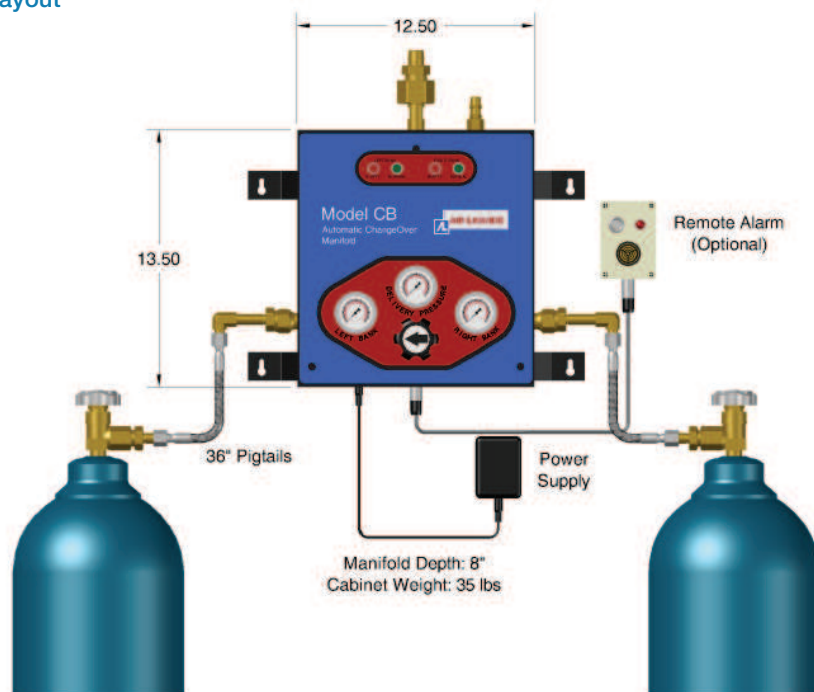
**Manifold Inlet:** CGA 580 Adapter

**Flexible Hose Pigtails (includes two):** 3' stainless steel innercore with double overbraid (other lengths available – please specify)

**Inlet CGA:** Standard with check valve nipple

**Inlet CGA Number:** See table on next page

### Model IG-CBI Typical Layout



# Automatic ChangeOver Manifold

## MODEL CB

### Specifications (continued)

Gas Service	Inlet Pressure maximum (psig)	Flow Rate maximum (SCFH)	Delivery Range for Internal Adjustable Regulator (psig)	SwitchOver Pressure (psig)	Inlet Pressure Gauges (psig)	Delivery Pressure Gauge (psig)
Oxygen/Inert	3000	1200	30–125	170	0–4000	0–200
Oxygen/Inert—HP Version	3000	2000	50–200	230	0–4000	0–400
Flammable Gas	3000	1200	30–125	170	0–4000	0–200
Flammable Gas—HP Version	3000	2000	50–200	230	0–4000	0–400
Carbon Dioxide, Nitrous Oxide	2000	35	30–125	170	0–4000	0–200
Carbon Dioxide, Nitrous Oxide—High-Flow Version	2000	500	50–200	230	0–4000	0–400
Acetylene	400	500	0–15	65	0–400	0–30
Liquefied Petroleum Gases	400	500	0–30	65	0–400	0–100

Use these tables to complete the model number and order the appropriate manifold.

### Pure Gas CGA Connections

Model Number	Gas Service
IG-CBI-1-(CGA)	Oxygen/Inert (30–125 psig)
IG-CBI-2-(CGA)	Oxygen/Inert (50–200 psig)
IG-CBF-1-350	Flammable Gases (30–125 psig)
IG-CBF-2-350	Flammable Gases (50–200 psig)
IG-CBH-1-(CGA)	Carbon Dioxide, Nitrous Oxide (30–125 psig)
IG-CBH-2-(CGA)	Carbon Dioxide, Nitrous Oxide—High-Flow Version (50–200 psig)
IG-CBAC-510A	Acetylene (0–15 psig)
IG-CBFG-510	Liquefied Petroleum Gases (Gas Phase Withdrawal) (0–30 psig)

Gas Service	CGA Connection Number
Acetylene	510A
Air	346
Air Industrial	590
Argon, Nitrogen, Helium	580
Carbon Dioxide	320
Hydrogen, Methane, Natural Gas	350
LPG Fuel Gas	510
Nitrous Oxide	326
Oxygen	540

Where (CGA) is indicated above, insert appropriate Compressed Gas Association (CGA) connection number from the Pure Gas CGA chart to complete the model number.

Example: IG-CBI-1-580. Please order by complete part number.

Model IG-CBAC-510A: Acetylene systems include pipeline dry-type flashback arrester, ASME relief valve with check valve, and individual pigtail flashback arresters on cylinder ends.

#### Optional Equipment

**Model IG-CBI-ALARM:** Remote Audio/Visual Alarm with 120 VAC transformer and 10' interconnecting cable with mating connectors

**Model IG-CBF-ALARM:** Remote Audio/Visual Alarm Kit for flammable gas service

**Model IG-CBAC-ALARM:** Remote Audio/Visual Alarm Kit for acetylene gas service

**Model IG-CBFG-ALARM:** Remote Audio/ Visual Alarm Kit for Liquefied Petroleum Gas (LPG) service