

# LMW Series

## Manual Changeover Systems

The LMW Series Manual Changeover is an economical ultra high-purity gas delivery system for installations not requiring automatic changeover operation. The LMW Series system is designed with a two-stage brass bar stock regulator for two cylinder banks that can be manually switched from an in-service to a reserve cylinder. When the in-service cylinder is exhausted, it can be shut off and the reserve cylinder can be manually opened to replenish the supply. Isolation and vent valves allow the empty cylinder to be replaced and purged without any interruption of gas supply to the process.

### Standard Features

- Diaphragm Seal Isolation and Purge Valves allow cylinder replacement without interrupting gas flow.
- Ultra High Purity, Diffusion Resistant Design assures maximum diffusion resistance, maintaining gas purity.
- Double-Braided (all metal) Stainless Steel Flexible Hoses maintain gas purity and provide ease of connecting cylinders.
- Check Valves (built into CGA connection) prevent discharge of gas from pigtail during cylinder change-out.

### Optional Features

- Outlet Filter traps foreign matter protecting downstream components from contamination and reduces maintenance.
- Relief Valve protects regulator components from the effects of over-pressurization.

### Specifications

Maximum Inlet Pressure: 3000 psig  
 Operating Temp. Range: -40°F to 140°F  
 Regulator:  
 Inlet Pressure Gauge (dual scale):  
 0–4000 psig / 0–275 bar  
 Delivery Pressure Range: See Table I  
 Delivery Pressure Gauge: See Table I  
 Filter: 40 micron  
 Gauge Size: 2" Dial  
 Flow Coefficient: Cv = 0.05  
 Outlet Connection:  
 ¼" NPT female (on outlet valve)  
 Inlet Connection: CGA connection as specified  
 Valves: SG5460N Series (page 137)  
 Flexible Hose (all metal):  
 30" long, 0.285" nominal ID,  
 0.445" nominal OD  
 Inlet Connections: CGA connection (as specified) with check valve  
 Plugged Access Port: ¼" NPT female (on manifold block)

Table I

Part No.	Delivery Pressure		
	Range (psig)	Gauge (dual scale) (psig)	(bar)
LMW-B-30-(CGA)	2–30	-30" Hg–0–60	-1–0–4
LMW-B-75-(CGA)	4–75	-30" Hg–0–100	-1–0–7
LMW-B-150-(CGA)	10–150	-30" Hg–0–200	-1–0–14

Where "(CGA)" is indicated above, insert appropriate Compressed Gas Association connection number to complete the part number. Example: LMW-B-30-580. Order by complete part number.

### Optional Equipment

Equipment	Part No.
Relief Valves (installed) for LMW-B-30 for LMW-B-75 for LMW-B-150	RV5572-45i RV5572-90i RV5572-175i
Outlet Filter (installed)	SG6113i



LMW Series with Optional Filter

### Materials of Construction

Regulator, Block and Valves:  
 Brass Bar Stock  
 Gauges and CGA Fittings: Brass  
 Diaphragms: Type 316 Stainless Steel  
 Regulator Filter: Bronze  
 Bracket: 12-Gauge Hot Rolled Steel with Powder Coat Epoxy Finish  
 Flexible Hose (all metal): Type 316L SS inner core with Type 321 SS double overbraid and Type 316 SS welded end fittings  
 Seats:  
 Check Valves: EPDM  
 Regulator and Valves: PCTFE

**Laser Gas Equipment for Industrial Lasers** – See pages 68–69 for additional information