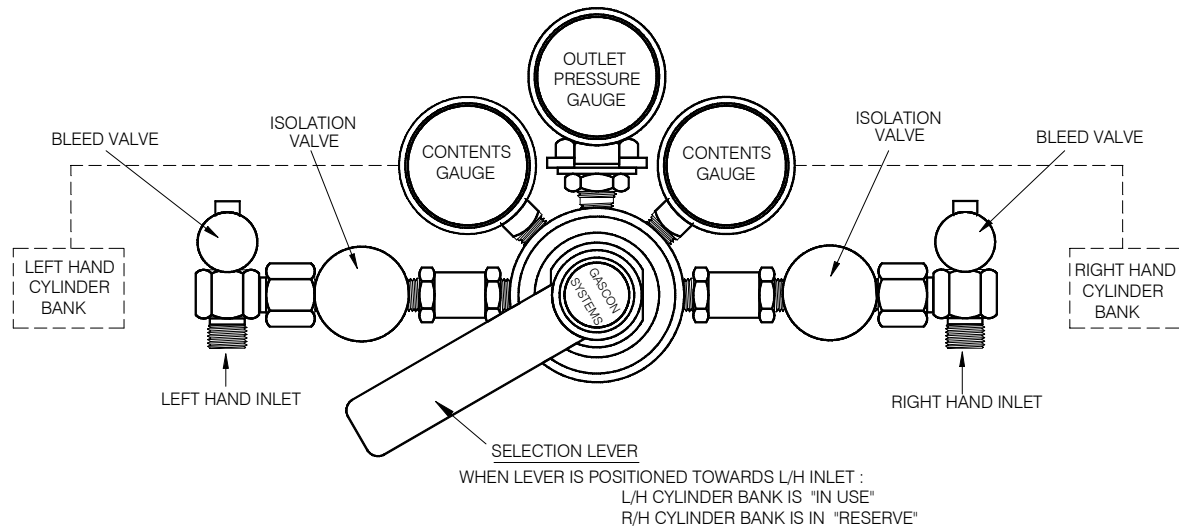


AUTOCHANGE MANIFOLD OPERATING INSTRUCTIONS



IMPORTANT

- **DO NOT** allow oil or bearing materials to contaminate oxygen manifolds.
- **NEVER** subject the manifold to pressures greater than its rated pressures.
- **USE** manifold **ONLY** with gases for which it was designed.
- **NEVER** use a manifold that is defective or damaged.
- **DO NOT** use cylinders with contaminated outlets.
- **DO NOT** remove plastic caps from cylinder valves until ready for use.
- **OPEN** cylinder and manifold valves **SLOWLY** ensuring that gas pressure increases slowly.

TO PUT MANIFOLD INTO OPERATION

1. Ensure that all outlet valves in the pipeline are closed (including isolation and bleed valves).
2. Ensure that each cylinder valve outlet is clean.
Momentarily open then close each cylinder valve to blow out any foreign matter and to ensure each cylinder is full. Close each cylinder valve lightly to make slow opening easier (after connection to the manifold).
3. Connect cylinder to the leads, ensure the end connections are not contaminated by foreign matter or damaged.
4. Move the **SELECTION LEVER** fully to the left or right to select the bank of cylinders to be in use (The opposite bank of cylinders will now be in reserve).
5. Slowly and fully open all cylinders.
6. Open both bleed valves momentarily to purge any entrapped air.
7. Open both isolation valves slowly.

WHEN IN USE BANK IS DEPLETED

LOW CYLINDER CONTENTS IS INDICATED BY THE CONTENTS GAUGE AND AMBER WARNING LIGHT (IF FITTED)

1. Move **SELECTION LEVER** to the opposite side (new in use side).
2. Close isolation valve on empty side.
3. Close and remove all empty cylinders.
4. Ensure that each new cylinder valve outlet is clean
Momentarily open then close each cylinder valve to blow out any foreign matter and to ensure each cylinder is full. Close each cylinder valve lightly to make slow opening easier (after connection to the manifold).
4. Connect new cylinders, open all cylinder valves slowly and fully.
5. Open bleed valve momentarily to purge any entrapped air.
6. Open isolation valve slowly and observe contents gauge to check that the new (reserve) cylinders are full.

**CAUTION : TO AVOID DAMAGE TO THE CONTROL MECHANISM, PRESSURISE
THE DOWNSTREAM SYSTEM IN A CONTROLLED MANNER.**