

# CEMStation™

## Model 81M

SCOTT™ CEMStations enhance safety, efficiency and purity when handling EPA protocol gases, CEM zero gases and other calibration standards. The 81M serves as a complete cylinder restraint and pressure reduction system and with a changeover manifold, it can help assure an uninterrupted supply of calibration and support gases. It is an essential tool to avoid CEM downtime as well as possible noncompliance actions resulting from exhausted supplies of environmental gases.

SCOTT CEMStations can be designed to meet requirements for any application where cylinder restraint and pressure reduction equipment is needed. Available in two and four-cylinder standard configurations, they are constructed of heavy 50 mm square steel tubes, with a fully welded support structure and finished in chemical resistant epoxy. Polypropylene straps with nonslip spring catches safely secure gas cylinders to racks. Steel safety chains can be added as an optional secondary support and security in case of fire. Angle-base design with predrilled holes permit easy floor mounting while overhead framing allows mounting of pressure reduction equipment for convenient accessibility.

### Benefits/Features

- Reduces maintenance costs and improves safety by eliminating the need to struggle with the regulator during cylinder changeouts.
- Eliminates costly leaks with helium test to assure system integrity.
- Prevents backflow of gas with check valve.
- Provides a simple, inexpensive means of connecting the gas cylinder to the distribution tubing.

### Components

#### Racks

- 2-Cylinder with restraints
- 4-Cylinder with restraints

#### Single-Station Manifold, Model 8100

- Model 318 brass, two-stage regulator and 2' pigtail
- Model 215 stainless steel, two-stage regulator and 2' pigtail

#### High-Purity Panel ChangeOver System, Model 8404

- Brass with line regulator and line purge

#### High-Purity ChangeOver System, Model 8RCS

- Brass with line regulator

### Popular Configurations

We can design any configuration to meet your specific needs – call us to discuss options and custom CEMStation design solutions.

#### 2-Cylinder, 2 Protocols

- One 8100 manifold with Model 318 brass, two-stage regulator; one 8100 manifold with Model 215 stainless steel, two-stage regulator

#### 4-Cylinder, 2 Protocols

- One 8100 manifold with Model 318 brass, two-stage regulator; one 8100 manifold with Model 215 stainless steel, two-stage regulator

#### 4-Cylinder, 2 Protocols with Zero Air

- One 8100 manifold with Model 318 brass, two-stage regulator; one 8100 manifold with Model 215 stainless steel, two-stage regulator; one 8404 changeover system for zero air

### Optional Equipment

- Indicating pressure switches
- Annunciator
- Flash arrester
- Flow limit shutoff valve
- Pressure relief valves
- Check valves
- Changeovers
- Single-station manifolds

