

## Portable Calibration Standards

3

### Refillable, Portable Calibration Gases

The portable calibration gas cylinder is an alternative to standard disposable cylinders. The Enviro-Cyl™ calibration gas cylinder offers many advantages over disposables:

- portable light weight refillable
- economical 50 - 100% more capacity than disposables
- no cylinders to dispose of...simply return for refill
- eliminates disposal fees and regulatory paperwork
- no more problems with landfills or recycling
- cost efficient; no deposits or rental fees



C-10

#### C10 Cylinder Specifications

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| <ul style="list-style-type: none"> <li>• Refillable aluminum cylinder</li> <li>• 105 liters capacity at 1100 psi</li> <li>• 12.5" tall</li> <li>• 3.2" diameter</li> </ul> | <ul style="list-style-type: none"> <li>• C-10 valve connection</li> <li>• 5 year DOT stamp</li> <li>• Safety on cylinder valve</li> <li>• Stainless steel valve</li> </ul> |
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#### EC180 Cylinder Specifications

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|---|---|
| <ul style="list-style-type: none"> <li>• Refillable aluminum cylinder</li> <li>• Up to 160 liter capacity at 2200 psig</li> <li>• 14" tall (with valve)</li> <li>• 3.2" diameter</li> </ul> | <ul style="list-style-type: none"> <li>• CGA 180/110 connection</li> <li>• 5 year DOT stamp</li> <li>• Safety on cylinder valve</li> <li>• Brass or Stainless steel valves</li> </ul> |
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EC-180



#### Complete, Portable Calibration Kits

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| <ul style="list-style-type: none"> <li>• Sturdy carrying case</li> <li>• Enviro-Cyl™ refillable cylinder(s) or "One Timers" disposable cylinders</li> <li>• A regulator/flowmeter</li> <li>• Tedlar sample bags - available</li> <li>• Calibration tubing - available</li> </ul> |
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3

One Timers are perfect for all your calibration applications. They cover a broad range of applications from industrial hygiene to petrol chemical.

One Timers provide outstanding quality, performance, and value. They also eliminate cylinder rental and demurrage charges, and the added portability of these cylinders makes them perfect for small jobs.

### 103 Liter Steel Disposable Cylinder for Non-Reactive Gas

- Steel disposable
- 103 liter low pressure capacity
- Cylinder height: 13.77"
- Cylinder diameter: 3.27"
- CGA: C-10 5/8" - 18 UNF
- Contents: 103 liters
- Weight: 2.3 lbs
- Service pressure: 1000 psi
- DOT Specs: 39 steel cylinder



### 34 Liter Steel Disposable Cylinder for Non-Reactive Gas

- Steel disposable
- 34 liter low pressure capacity
- Cylinder height: 10.75"
- Cylinder diameter: 3"
- CGA: 600
- Contents: 34 liters
- Weight: 1.8 lbs
- Service pressure: 500 psi
- DOT specs: 39 steel cylinder



### 17 Liter Steel Disposable Cylinder for Non-Reactive Gas

- Steel disposable
- 17 liter low pressure capacity
- Cylinder height: 10.75"
- Cylinder diameter: 3"
- CGA: 600
- Contents: 17 liters
- Weight: 1.1 lbs
- Service pressure: 250 psi
- DOT specs: 39 steel cylinder



### 58 Liter Aluminum Disposable Cylinder for Reactive Gas

- Aluminum disposable
- 58 liter low pressure capacity
- Cylinder height: 14.25"
- Cylinder diameter: 3.5"
- Outlet Fitting: C-10 5/8" 18 UNF
- Contents: 58 liters
- Weight 1.6 lbs
- Service pressure: 500 psi
- DOT specs: 39 NRC aluminum cylinder



### 29 Liter Aluminum Disposable Cylinder for Reactive Gas

- Aluminum disposable
- 29 liter low pressure capacity
- Cylinder height: 10.64"
- Cylinder diameter: 3"
- Outlet Fitting: C-10 5/8" 18 UNF
- Contents: 34 liters
- Weight 1.3 lbs
- Service pressure: 500 psi
- DOT specs: 39 NRC aluminum cylinder



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3

All Portable Gas Standards are manufactured to meet certified standards and are manufactured with NIST traceable standards. These standards are also manufactured under ISO 17025 Quality Requirements.

### Confined Space Standards

Entry into confined spaces require testing for several contaminants.

4 & 5 Component Mixtures normally contain the following products, but the minor components can vary. The concentrations of these components can vary according to the equipment manufacturer. Please check with your equipment manufacturer as to the exact mixture you need.

5 Component Mixture	Part No.	4 Component Mixture	Part No.
Hydrogen Sulfide Carbon Monoxide Methane Oxygen Balance Nitrogen	CS-5-NIT-XX-DN	Hydrogen Sulfide Carbon Monoxide Methane Balance Nitrogen	CS-4-NIT-XX-DN

### Common Environmental Compliance Mixtures

Environmental Compliance Mixtures are primarily for remediation and testing. These are normally just two component mixtures, but additional minor components are available.

	Part No.		Part No.
Isobutylene Balance Air	CS-2-AIR-XX-DN	Carbon Monoxide Balance Air	CS-2-AIR-XX-DN
Propane Balance Nitrogen	CS-2-NIT-XX-DN	HCFC 134a Balance Nitrogen	CS-2-NIT-XX-DN
Methane Balance Air	CS-2-AIR-XX-DN	Chlorine Balance Nitrogen	CS-2-NIT-XX-DN
Ammonia Balance Nitrogen	CS-2-NIT-XX-DN	Ethylene Oxide Balance Nitrogen	CS-2-NIT-XX-DN

Additional minor components are available. Please contact the nearest Sales office for additional details.

BTEX Standards	Part No.		
Benzene Toluene Ethyl Benzene o-Xylene Balance Nitrogen	CS-5-NIT-XX-DN		

Disposable Cylinder Sizes	Approximate Contents	Connection
58AL*	58 Liters	C-10
29AL*	29 Liters	C-10
103S	103 liters	C-10
34S	34 Liters	CGA 600
17S	17 Liters	CGA 600
Refillable-Cylinders		
C-10*	105 Liters	C-10
C-180*	160 Liters	CGA 180/110

XX - Complete the part number with the desired cylinder size.  
DN - Description number assigned by manufacturing location.

### Recommended Equipment

Regulators for Portable Calibration Standards, see page 4.57

Calibration Kits and Accessories Available

\* Aluminum Cylinders recommended for reactive gases