

SIGMA-ALDRICH LECTURE-BOTTLE STATIONS

Safe and Simple Systems for Dispensing Lecture-Bottle Gases



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Safe and Simple Systems for Dispensing Lecture-Bottle Gases



Dispensing lecture-bottle gases has never been safer or simpler using these portable lecture-bottle stations. The premium quality components housed within a station are matched to the application, fully assembled, leak-tested, and ready for use. Just connect the station to the lecture-bottle, process, and a source of inert gas if using a station with a purge valve and you are ready to go.

Safe and Simple

- Gas dispensing and storage in one compact, portable system
- Keeps lecture-bottles upright and stable, eliminates tip-over
- Reduces equipment damage and chance of personal injury
- Choice of four models matched to the application
- Wall-mountable
- Express Service™ Program for fast cleaning, repair, or component replacement

Lecture-Bottle Station Specifications:

- Heavy-gauge steel cabinet with durable, red enamel finish, table-top or wall mountable
- Quality, panel-mounted regulators and purge valves
- Braided, 316L stainless steel hose with CGA-180 remote connection to the lecture-bottle
- Support for two lecture-bottles, one in use and a spare
- Clearly labeled gauges, gas connections, and valve functions
- *Instructions for Use* label on front of cabinet
- Fully assembled, leak-tested and ready for use

See the New Lecture-Bottle Equipment to Gases Selection Guide

Go to sigma-aldrich.com/gases



TO ORDER: Contact your local Sigma-Aldrich office (see back cover), call 1-800-325-3010 (USA), or visit sigma-aldrich.com.



Non-Corrosive Lecture-Bottle Station

For inert and non-corrosive gas applications

Regulator specifications:

Single stage, panel-mounted brass body with stainless steel pressure diaphragm, brass nozzle, PCTFE seat, Viton® seals, self seating type relief valve, 1 ½ inch diameter gauges, 3,000 psig maximum inlet pressure, 0-80 psig delivery range, brass outlet valve with ¼ inch NPTF connection.

Cabinet specifications: 14 in. W x 12 in. D x 8½ in. H, Weight: 14lb, without lecture-bottles.

High-Purity Lecture-Bottle Station

For non-corrosive, high-purity gas applications

Regulator specifications:

Single stage, panel-mounted stainless steel body and pressure diaphragm, cartridge type seat PCTFE, PTFE and PCTFE seals, 2 inch diameter stainless steel gauges, helium leak rate tested at 1×10^{-8} ssc/sec., 3,000 psig maximum inlet pressure, 0-80 psig delivery range, Stainless steel outlet valve with ¼ inch NPTF connection.

Cabinet specifications: 14 in. W x 12 in. D x 8½ in. H, Weight: 14lb, without lecture-bottles.

Lecture-Bottle Station with T-Purge Valve

For mildly-corrosive and high-purity gas applications

Purge valve sits between the lecture-bottle and regulator to purge system with inert gas to remove air, moisture, and process gas to maintain high-purity conditions and to minimize gas hydrolysis and corrosion damage to equipment. Purge system with dry, inert gas before introducing mildly corrosive gases and again immediately after use.

Regulator specifications:

Single stage, panel-mounted stainless steel body and pressure diaphragm, cartridge type seat PCTFE, PTFE and PCTFE seals, 2 inch diameter stainless steel gauges, helium leak rate tested at 1×10^{-8} ssc/sec., 3,000 psig maximum inlet pressure, 0-80 psig delivery range, Stainless steel outlet valve with ¼ inch NPTF connection.

T-Purge valve specifications:

316L stainless steel body and valve, 3,000 psig maximum inlet pressure, with ¼ inch NPTF connection.

Cabinet specifications: 16 in. W x 12 in. D x 8½ in. H, Weight: 16lb, without lecture-bottles.



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Corrosive Lecture-Bottle Station with Cross-Purge Valve

For strong, acid-forming gas applications

For use with hydrogen chloride, hydrogen bromide, hydrogen fluoride, and silicon tetrafluoride. Cross-purge valve sits between the lecture-bottle and regulator to prevent escape of toxic and flammable gases when changing cylinders and permits purging system with inert gas to remove air, moisture, and process gas to minimize gas hydrolysis and corrosion damage to equipment. Purge system with dry, inert gas before introducing corrosive gases and again immediately after use.

Regulator specifications:

Single stage, panel-mounted electroless nickel-plated brass body with PTFE-lined stainless steel pressure diaphragm, Monel® nozzle with PCTFE seat, Viton seals, captured vent for safe operation (¼ inch NPTM connection), 2.7 inch diameter stainless steel gauges, helium leak rate tested at 1×10^{-6} ssc/sec., 3,000 psig maximum inlet pressure, 0-80 psig delivery range, Monel® outlet needle valve with ¼ inch NPTF connection.

Cross-purge valve specifications: 316L stainless steel body and valves with color-coded handles, welded construction, electropolished and cleaned for oxygen service, 3,000 psig maximum inlet pressure, with ¼ inch NPTF connections.

Cabinet specifications: 16 in. W x 12 in. D x 8½ in. H, Weight: 20lb, without lecture-bottles.

Lecture-Bottle Service Station

This station provides storage capacity for three additional lecture-bottles, tools, and supplies for use with Sigma-Aldrich Lecture-Bottle Stations. Table top or wall-mountable. Hinged cover over storage space keeps supplies clean and secure.

Service Station includes: SNOOP leak detector, 8 oz. bottle, PTFE tape, ½ x 520in. roll, wrench for CGA 180 connections, PTFE sealing washers, CGA 180, 5 ea, safety glasses, CE and ANSI approved, cut-resistant Kevlar gloves, ¼ inch NPTM x ¼ inch hose barb fittings (3), and ¼ inch NPTF x ¼ inch hose barb fittings (3), brass.

Cabinet specifications: 12 in. W x 12 in. D x 8½ in. H, Weight: 15lb, without lecture-bottles.

Order Information

Description	Cat. No.	Price
Non-Corrosive Lecture-Bottle Station	Z562599-1EA	\$825.00
High-Purity Lecture-Bottle Station	Z562602-1EA	995.00
Lecture-Bottle Station with T-Purge Valve	Z562610-1EA	1,350.00
Corrosive Lecture-Bottle Station with Cross-Purge Valve	Z562629-1EA	2,625.00
Lecture-Bottle Service Station	Z562637-1EA	460.00



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Lecture-Bottle Station Selection Guide

Gases are listed alphabetically in this selection guide. All gases are supplied in a standard size lecture-bottle with an outlet valve with a CGA 180 connection. Locate the gas in the left column and then scroll across the table to find the catalog numbers for the gas and the appropriate Lecture-Bottle Station.

Important Note: The accessory Lecture-Bottle Service Station Z562637 is suitable for use with all Lecture-Bottle Stations.

Gas	Gas Cat. No.	Lecture-Bottle Station Cat. No.
Air	294977	Z562599
Allene	294985	Z562610
Ammonia	294993	Z562610
Argon	295000	Z562599
Boron trichloride	295019	Z562629
Boron trifluoride	295027	Z562629
Bromomethane	295485	Z562599
Butane	494402	Z562599
Carbon dioxide	295108	Z562599
Carbon tetrafluoride	295736	Z562599
Carbonyl sulfide	295124	Z562610
Chlorine	295132	Z562629
Dichlorosilane	295221	Z562629
Dichlorosilane	333395	Z562629
1,1-Difluoroethylene	295272	Z562599
Ethane, 99%	295302	Z562599
Ethane, 99.99%	539775	Z562599
Ethylene	295329	Z562599
Ethylene oxide	387614	Z562610
Helium	295345	Z562599
Hexafluoroethane	295361	Z562599
Hydrogen	295396	Z562599
Hydrogen bromide	295418	Z562629
Hydrogen chloride	295426	Z562629
Hydrogen sulfide	295442	Z562610
Methane	295477	Z562599
Methanethiol	295515	Z562610
Methylamine	295531	Z562610
Molybdenum(VI) fluoride	399094	Z562629
Nitric oxide	295566	Z562610
Nitrogen	295574	Z562599
Nitrogen dioxide	295582	Z562610
Nitrous oxide	295590	Z562599
Oxygen	295604	Z562599
Sulfur dioxide	295698	Z562610
Sulfur hexafluoride	295701	Z562599
Trifluoromethane	295337	Z562599
Vinyl chloride	387622	Z562610

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