

PORTAGAS™

CALIBRATION GASES

AND EQUIPMENT FOR

ENVIRONMENTAL AND

INDUSTRIAL HYGIENE

APPLICATIONS



(800) 548-2268

6717-B Polk Street ■ Houston, TX 77011

www.portagas.com

PORTAGAS™

IS DEDICATED TO PROVIDING
 INNOVATIVE CALIBRATION
 SOLUTIONS SPECIFICALLY FOR
 ENVIRONMENTAL AND
 INDUSTRIAL HYGIENE
 APPLICATIONS



Portagas 50,000 sq./ft. production facility located in Houston, Texas.

ACCURATE

All gases are made to the highest accuracy with traceability to N.I.S.T.

PORTABLE & INEXPENSIVE

Cylinders are designed to be light and portable. There are no deposits or rental charges.

QUALITY ASSURANCE

Each cylinder is labeled with a lot number and expiration date. The stability of each mix is guaranteed.

RAPID DELIVERY

All stock items shipped within 24 hours

COMMONLY REQUESTED GASES

INDUSTRIAL HYGIENE GASES

- Ammonia, balance Air or Nitrogen
- Carbon Dioxide, balance Air or Nitrogen
- Carbon Monoxide, balance Air or Nitrogen
- Chlorine, balance Nitrogen
- Ethylene Oxide, balance Nitrogen or Air
- Hydrogen Chloride, balance Nitrogen
- Hydrogen Cyanide, balance Nitrogen
- Hydrogen Sulfide, balance Air or Nitrogen
- LEL% Methane, balance Air
- LEL% Pentane, balance Air
- LEL% Propane, balance Air
- Nitrogen Dioxide, balance Air or Nitrogen
- Nitric Oxide, balance Nitrogen
- Sulfur Dioxide, balance Air or Nitrogen
- Zero Air
- Zero Nitrogen

ENVIRONMENTAL GASES FOR FUGITIVE EMISSIONS & TOXIC ORGANIC MIXES

- Benzene, balance Air or Nitrogen
- BTEXX, Balance Air or Nitrogen
- C₁- C₁₀ Hydrocarbon blends
- Ethylbenzene, balance Air or Nitrogen
- Halocarbon blends
- Isobutylene, balance Air
- Methane, balance Air
- Multicomponent Toxic Organic blends
- Pure Hydrogen Fuel for FID
- Toluene, balance Air or Nitrogen
- Ultra Zero Air
- Xylene, balance Air or Nitrogen
- Zero Air

QUAD GAS™ MIX FOR CONFINED SPACE ENTRY

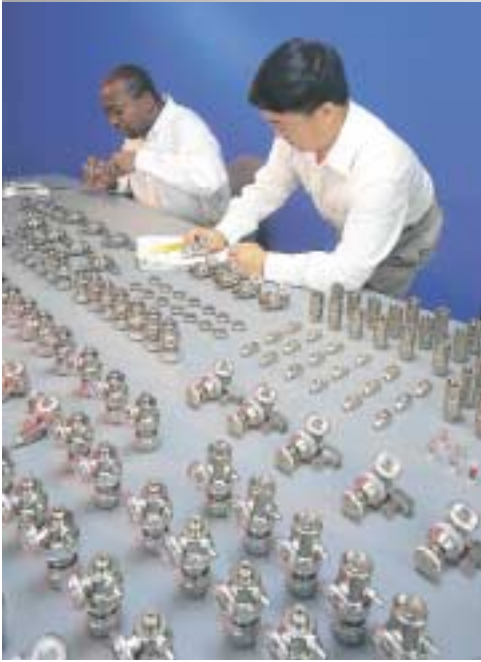
- Hydrogen Sulfide
- Carbon Monoxide
- LEL (Methane/Propane/Pentane)
- Oxygen deficiency, balance Nitrogen

Other gases are available upon request. Please call us to discuss your specific gas requirements.
 1-800-548-2268



7DAL 11DAL 34DAL 17DS 34DS 58DS 103DS 58DAL 74DAL 103RAL 221DS 550DS

REGULATORS



PRESET CONSTANT FLOW REGULATORS 100 Series

Portagas™ offers unequalled quality and performance from its constant flow regulators. With their unique diaphragm design, these regulators will hold their preset flow, even as the cylinder pressure is depleted.



Rotate knob for audible click ON/OFF

Knurled ON/OFF knob for easy grip with or without gloves

No set screw on knob, meaning knob won't strip out.

Wide diaphragm design for precise flow control even as the cylinder pressure changes

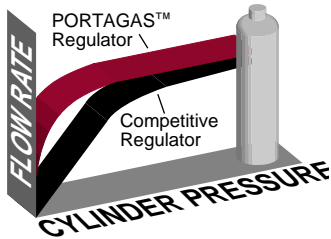
Finer graduations for precise reading of cylinder contents

Side outlet prevents tubing from kinking

Stainless steel gauge

Wide choice of outlets and inlets available

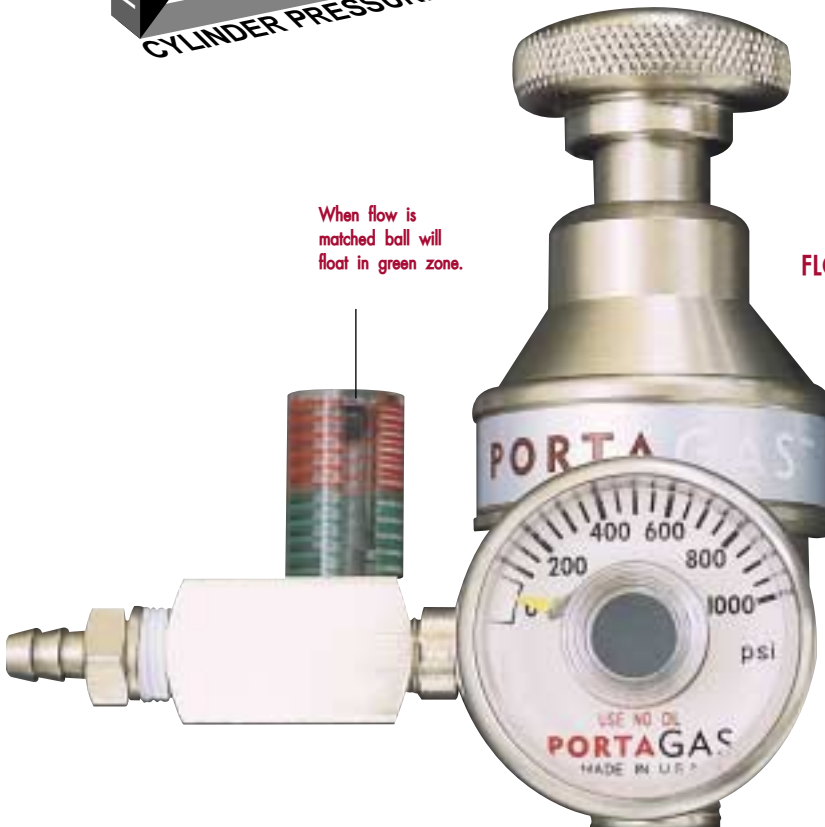
All wetted surfaces have proprietary passivated coating to ensure non-reaction with calibration gas.



When flow is matched ball will float in green zone.

FLOW MATCHING REGULATOR™ DEVICE

Portagas demonstrates a commitment to calibration innovation for the Environmental and Industrial Hygiene markets by being the first to develop a Flow Matching Regulator™. Designed for instruments with sample draw pumps, the Flow Matching Regulator® is an excellent solution to overcome the inconveniences of using sample bags or inefficient Assemblies. The Flow Matching Regulator™ will also provide excellent repeatability of sensor response to the calibration gas as opposed to sampling bags.



ORDERING INFORMATION

| SERIES | INLET | OUTLET | FLOW RANGE |
|------------|-------------|----------------------|-----------------------------|
| 100 | 1 | 1 | P 0.5 |
| 100 Series | 5/8"-18 UNF | 1/8" Hosebarb outlet | Preset at 0.5 LPM Flow Rate |

| SERIES | SERIES | MAX INLET PSIG | MAX OUTLET PSIG | SEAT | DIAPHRAGM |
|--------|--------|----------------|-----------------|-------|---------------------|
| | 100 | 2000 | 15 | Kel F | Passivated Neoprene |
| | 200 | 3000 | 30 | Kel F | Stainless Steel |

200 Series For critical applications where low concentrations of reactive gases are used, upgrade to our 200 Series Preset Constant Flow Regulator. This regulator features a stainless steel diaphragm and KEL F seats which ensure the integrity of the calibration gas.

| INLET | ORDER NUMBER | INLET | APPLICABLE CYLINDER SIZES | GAUGE (PSIG) | POSITION OF INLET ON REGULATOR |
|-------|--------------|--------------------|---------------------------|--------------|--------------------------------|
| | 1 | 5/8th - 18 UNF | 34DAL, 58DAL, 58DS, 103DS | 0- 1000 | Bottom |
| 2 | CGA 600 | 17DS, 34DS | 0- 500 | Bottom | |
| 3 | CGA 110 | 103RAL | 0- 3000 | Side | |
| 4 | CGA 170 | | 0- 3000 | Side | |
| 5 | CGA 180 | 74DAL, 103RAL, RS2 | 0- 3000 | Side | |
| 6 | CGA 510 | | 0- 1000 | Side | |
| 7 | NPTF 1/8" | | 0- 3000 | Side | |
| C | CGA 165 | 221DS | 0- 500 | Side | |

Other inlets available upon request.

| OUTLET | ORDER NUMBER | OUTLET |
|--------|-------------------|---------------|
| | 1 | Hosebarb 1/8" |
| 2 | Hosebarb 3/16" | |
| 3 | Tube Fitting 1/8" | |
| 4 | NPTF 1/8" | |
| 5 | Hosebarb 1/4" | |
| 6 | NPTM 1/8" | |

Other outlets available upon request.

| FLOW RANGE | ORDER NUMBER | FLOW RANGE |
|-------------|------------------------------|---------------------------------|
| | P (specify) | Preset at specified flow in LPM |
| A (specify) | Adjustable to specified flow | |

CYLINDER SPECIFICATIONS

| CYLINDER SIZE | CONTENTS AT FULL SERVICE PRESSURE | | SERVICE PRESSURE | | DIMENSIONS LENGTH | | OUTSIDE DIAMETER | | TARE WEIGHT IN | | OUTLET FITTING |
|---------------|-----------------------------------|---------|------------------|------|-------------------|-------|------------------|------|----------------|------|----------------|
| | LTRS. | CU. FT. | PSIG | BAR | INCHES | CM | INCHES | CM | LBS. | KG. | |
| 7DAL | 7 | 0.25 | 155 | 10.7 | 7 1/2 | 19.05 | 2 9/10 | 6.6 | 0.15 | 0.07 | AEROSOL |
| 11DAL | 11 | 0.4 | 155 | 10.7 | 11 | 26.29 | 2 9/10 | 7.3 | 0.31 | 0.14 | AEROSOL |
| 17DS | 17 | 0.6 | 240 | 16.5 | 11 | 27.9 | 2 7/8 | 7.3 | 1.0 | 0.45 | CGA600 |
| 34DS | 34 | 1.2 | 500 | 34.5 | 11 | 27.9 | 2 7/8 | 7.3 | 1.5 | 0.68 | CGA600 |
| 58DS | 58 | 2.0 | 1000 | 69 | 8 | 20.3 | 3 1/4 | 8.3 | 1.2 | 0.54 | 5/8"-18UNF |
| 103DS | 103 | 3.6 | 1000 | 69 | 13 27/32 | 35.2 | 3 1/4 | 8.3 | 2.4 | 1.09 | 5/8"-18UNF |
| 34DAL | 34 | 1.06 | 500 | 34.5 | 10 1/2 | 26.62 | 2 9/10 | 7.38 | .6 | 0.27 | 5/8"-18 UNF |
| 58DAL | 58 | 2.0 | 500 | 34.5 | 13 1/2 | 34.3 | 3 1/2 | 8.9 | 1.8 | 0.82 | 5/8"-18 UNF |
| 74DAL | 74 | 2.6 | 480 | 33 | 16 1/4 | 41.3 | 4 | 10.1 | 1.75 | 0.79 | CGA180 |
| 103RAL | 103 | 3.6 | 1800 | 124 | 9 3/8 | 23.8 | 3 3/16 | 8.1 | 1.3 | 0.59 | CGA180 |
| 221DS | 221 | 8.0 | 260 | 18 | 16 1/4 | 41.3 | 9 | 22.9 | 5.7 | 2.58 | CGA165 |
| 550DS | 550 | 20.0 | 2000 | 138 | 21 | 53.0 | 4 | 10 | 11.66 | 5.3 | CGA |
| RS2 | 56 | 2.0 | 1800 | 124 | 13 | 32.5 | 25 | 3.96 | 1.8 | | CGA180 |

All cylinders are listed by their capacities in liters of gas followed by the material of construction, i.e. 17DS = 17 liters disposable steel; 103RAL = 103 liters refillable aluminum. Other cylinder sizes are available upon request.