

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™



(800) 548-2268
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

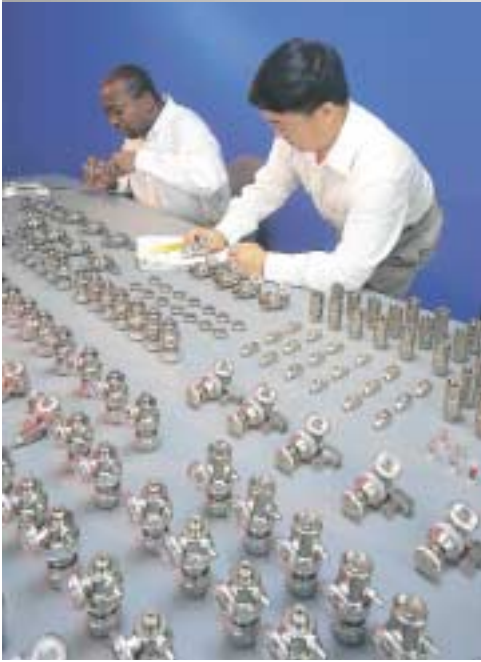
74DAL

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

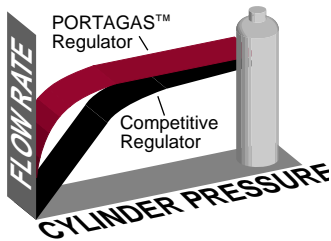
Finer graduations for precise reading of cylinder contents

Side outlet prevents tubing from kinking

Stainless steel gauge

Wide choice of outlets and inlets available

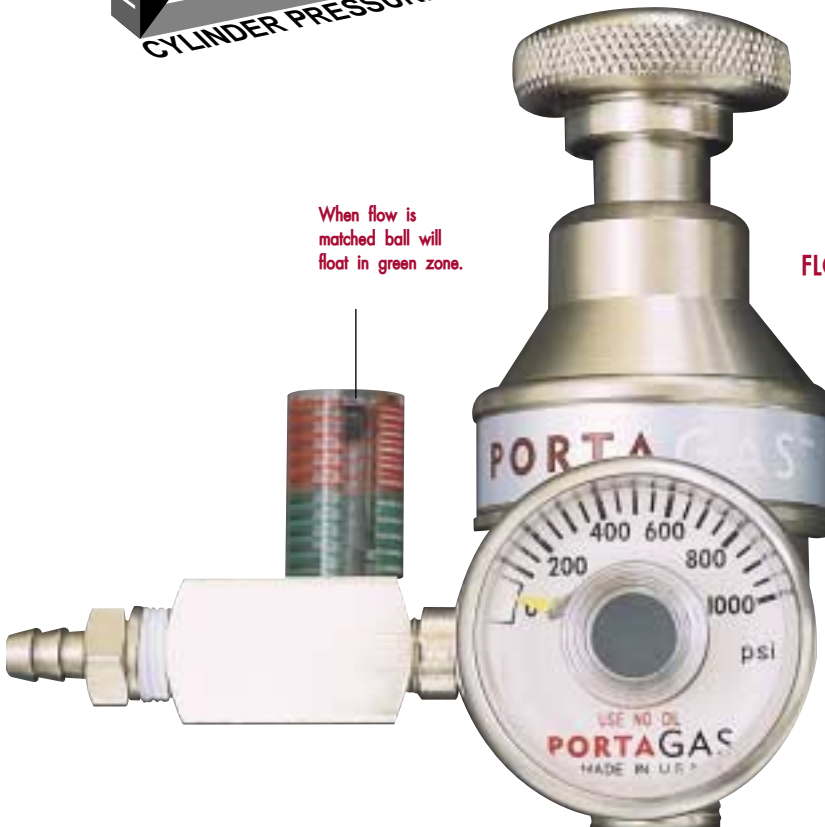
All wetted surfaces have proprietary passivated coating to ensure non-reaction with calibration gas.



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.