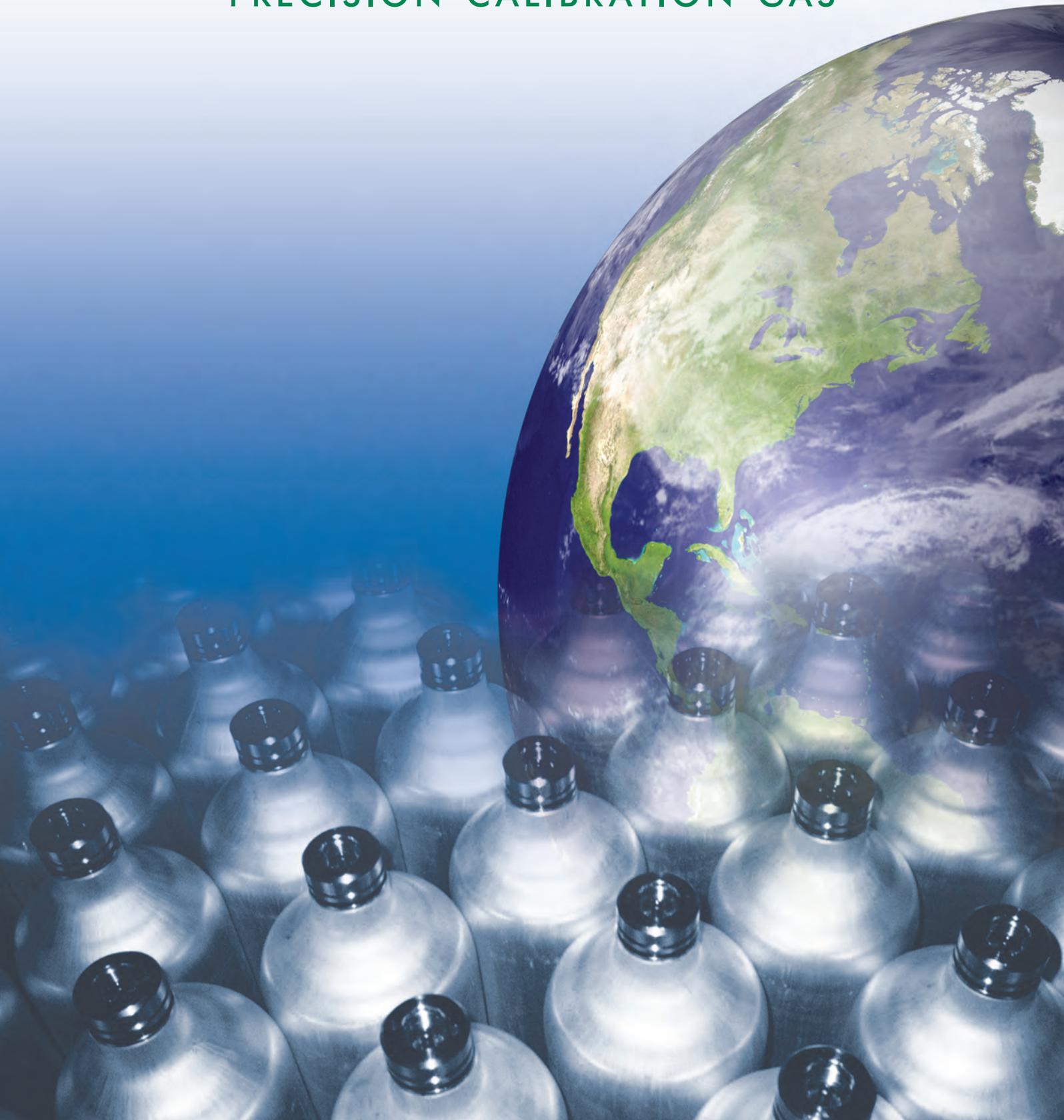


GASCO®

PRECISION CALIBRATION GAS



Fast Delivery**Unmatched Warranty****40 Years Industry
Experience****Highest Quality****Industry Experienced
Customer Service**

SETTING STANDARDS — EXCEEDING EXPECTATIONS

- GASCO is an organization characterized by integrity, competence, cooperation and professionalism. We continually strive to earn customers' satisfaction and respect by providing exceptional products and services while remaining quality conscious and proactive.
- GASCO products provide the industry benchmark through internal design and ingenuity. Our evolution of achievement comes from maintaining the highest standards in the calibration gas industry.

DEPENDABILITY

- GASCO is flexible and ready to meet its customers' needs.
- GASCO fulfills orders for next day or same day shipments.
- GASCO has the BEST Customer Service in the Industry!

QUALITY

- GASCO has the facilities and expertise to blend gases to your specifications.
- GASCO'S professional employees have the knowledge and the know-how to recommend the proper gas mixture and delivery technique for your calibration requirements.
- GASCO consistently meets or exceeds customer requirements.
- GASCO'S precision and quality is consistent with NIST standards.

VALUE

- GASCO only sells through select Distributors.
- GASCO provides exceptional products and services at a competitive price.
- GASCO has no minimum order requirements.



SPECIALIZATION

Gasco's vast experience and technical knowledge enables us to offer the most difficult reactive gas mixtures with confidence and our guarantee of quality and stability.

REACTIVE GAS MIXTURES

GAS	SYMBOL	BALANCE	RANGE	WARRANTY
AMMONIA	NH ₃	AIR OR NITROGEN	10 PPM – 500 PPM	12 Mo.
CHLORINE	Cl ₂	NITROGEN	2 – 1000 PPM	12 Mo.
ETHYLENE OXIDE	ETO	NITROGEN	5 – 100 PPM	12 Mo.
HYDROGEN CYANIDE	HCN	NITROGEN	1 – 500 PPM	12 Mo.
HYDROGEN CHLORIDE	HCl	NITROGEN	3 – 1000 PPM	12 Mo.
HYDROGEN SULFIDE	H ₂ S	AIR OR NITROGEN	5 PPM – 1% Vol.	15 Mo.
NITRIC OXIDE	NO	NITROGEN	5 – 900 PPM	12 Mo.
NITROGEN DIOXIDE	NO ₂	AIR OR NITROGEN	3 – 200 PPM	12 Mo.
PHOSPHINE	PH ₃	NITROGEN	0.5 – 15 PPM	12 Mo.
SILANE	SiH ₄	NITROGEN	1 – 100 PPM	12 Mo.
SULFUR DIOXIDE	SO ₂	AIR OR NITROGEN	2 – 500 PPM	15 Mo.

REGULATORS



PART NUMBER	DEMAND FLOW	DIAL-A-FLOW	70 & 70/SS-*	70-FMV	71-*	70-TRIGGER
VALVE INLET	C-10 or CGA 600	C-10	C-10	C-10 or CGA 600	CGA 600	C-10 or CGA 600
FITS CYLINDER	17L, 34L, 34LS, 58L, 74L, 103L, 116L	34L, 58L, 74L, 103L, 116L	34L, 58L, 74L, 103L, 116L	17L, 34L, 34LS, 58L, 74L, 103L, 116L	17L, 34LS	17L, 34L, 34LS, 58L, 74L, 103L, 116L
FLOW RATE	INSTRUMENT PUMP DRAWS NEEDED FLOW RATE	0.3 – 3 LPM SELECTABLE	0.1 – 6 LPM FIXED	FLOW MATCHING	0.1 – 6 LPM FIXED	0.1 – 6 LPM FIXED
GAUGE PSI	1000 PSI	1200 PSI	1200 PSI	1200 PSI	600 PSI	1200 PSI
MATERIAL	BRASS, NICKEL PLATED	BRASS, NICKEL PLATED	BRASS, NICKEL PLATED OR STAINLESS STEEL	BRASS	BRASS, NICKEL PLATED	BRASS, NICKEL PLATED

*Suffix delineates the desired flow rate

We use the highest quality cylinders in the industry, which meet and exceed all criteria of its customers and appropriate regulatory authorities.



For ordering information see page 7

CYLINDERS

PART NUMBER	10L	17L	34LS	34L	58L	74L
PRESSURE	160 PSI	240 PSI	500 PSI	500 PSI	500 PSI	500 PSI
GAS TYPE	MOST REACTIVE & ALL NON-REACTIVE	NON-REACTIVE	NON-REACTIVE	ALL REACTIVE MIXTURES	ALL REACTIVE MIXTURES	ALL REACTIVE MIXTURES
DIMENSIONS	9.4" x 2.9"	10.75" x 2.9"	10.75" x 2.9"	10.64" x 3.125"	14.25" x 3.5"	14.25" x 4.25"
WATER CAPACITY	0.97 LITERS	1.0 LITERS	0.9 LITERS	0.9 LITERS	1.72 LITERS	2.2 LITERS
MATERIAL	ALUMINUM ALLOY	STEEL	STEEL	ALUMINUM ALLOY	ALUMINUM ALLOY	ALUMINUM ALLOY
WEIGHT	5 oz.	1 lb.	1 lb. 8 oz.	1 lb. 14.9 oz.	1 lb. 12 oz.	2 lbs. 5 oz.
VALVE INLET	N/A	CGA 600	CGA 600	5/8" – 18 UNF (C-10)	5/8" – 18 UNF (C-10)	5/8" – 18 UNF (C-10)
REGULATOR	TRIGGER AEROSOL	DEMAND FLOW 71-SERIES 72-MFV/17 CV-2	DEMAND FLOW 71-SERIES 72-MFV/17 CV-2	DEMAND FLOW 70-SERIES DIAL-A-FLOW 70-FMV 70-SS-SERIES	DEMAND FLOW DIAL-A-FLOW 70-SERIES 70-FMV 70-SS-SERIES	DEMAND FLOW DIAL-A-FLOW 70-SERIES 70-FMV 70-SS-SERIES
CONTENTS	10 LITERS (0.35 Cu Ft)	17 LITERS (0.6 Cu Ft)	34 LITERS (1.2 Cu Ft)	34 LITERS (1.2 Cu Ft)	58 LITERS (2.0 Cu Ft)	74 LITERS (2.6 Cu Ft)



76-Q70-*	76-Q71-*	CV-2	PART NUMBER
C-10	CGA 600	CGA 600	VALVE INLET
34L, 58L, 74L, 103L, 116L	17L, 34LS	17L, 34LS	FITS CYLINDER
0.1 – 6 LPM FIXED	0.1 – 6 LPM FIXED	N/A	FLOW RATE
N/A	N/A	N/A	GAUGE PSI
ALUMINUM OR BRASS, NICKEL PLATED	ALUMINUM OR BRASS, NICKEL PLATED	BRASS	MATERIAL



103L	116L	221L	552L
1000 PSI	1000 PSI	250 PSI	2200 PSI
NON-REACTIVE	ALL REACTIVE MIXTURES	NON-REACTIVE	NON-REACTIVE
13.6" x 3.3"	14.25" x 3.53"	16.25" x 9"	20.75" x 4.5"
1.52 LITERS	1.72 LITERS	12 LITERS	3.69 LITERS
STEEL	ALUMINUM ALLOY	STEEL	STEEL
3 lbs.	2 lbs. 2 oz.	6.3 lbs.	11 lbs.
5/8" – 18 UNF (C-10)	5/8" – 18 UNF (C-10)	CGA 165	Gas Specific
DEMAND FLOW DIAL-A-FLOW 70-SERIES 70-FMV	DEMAND FLOW DIAL-A-FLOW 70-SERIES 70-FMV	70-SERIES W/ADAPTER	N/A
103 LITERS (3.6 Cu Ft)	116 LITERS (4 Cu Ft)	221 LITERS (8.0 Cu Ft)	552 LITERS (19.4 Cu Ft)

ECOSMART™ REFILLABLE CYLINDER

Refill vs. Landfill

ecosmart is a 116-liter refillable portable cylinder that delivers 100% more calibration gas than the disposable 58-liter cylinders. The ecosmart holds pure and mixed gases and fits comfortably into a standard carrying case.



For ordering information see page 7

PART NUMBER	116ES
PRESSURE	1000 PSI
GAS TYPE	REACTIVE/NON-REACTIVE
DIMENSIONS	14.3" x 3.5"
WATER CAPACITY	1.7 LITERS
MATERIAL	ALUMINUM ALLOY
WEIGHT	2 lbs. 2 oz.
VALVE INLET	5/8" – 18 UNF (C-10)
REGULATOR	DEMAND-FLOW DIAL-A-FLOW 70-SERIES 70-SS
CONTENTS	116 LITERS (4 Cu Ft)

NON-REACTIVE MIXTURES

GASCO P/N SUFFIX	GAS	CONCENTRATION	BALANCE GAS
-114	NITROGEN	100%	N/A
-135A-2.5	METHANE	2.5% vol. (50% LEL)	AIR
-176-50	PROPANE	1.1% vol. (50% LEL)	AIR
-1	ZERO AIR	20.9% vol.	NITROGEN
-248-100	ISOBUTYLENE	100 PPM	AIR
-262-40	HEXANE	0.44% vol. (40% LEL)	AIR
-37-2000	CARBON DIOXIDE	2000 PPM	AIR
-50-50	CARBON MONOXIDE	50 PPM	AIR
-85-2	HYDROGEN	2% vol. (50% LEL)	AIR

*Recommended cylinder sizes are 10, 17, 34S, 103, and 116 liter ecosmart

Many More Mixtures available upon Request

REACTIVE MIXTURES

GASCO P/N SUFFIX	GAS	CONCENTRATION	BALANCE GAS
-111-10	NITROGEN DIOXIDE	10 PPM	NITROGEN
-125-10	NITRIC OXIDE	10 PPM	NITROGEN
-13-25	AMMONIA	25 PPM	NITROGEN
-175-10	SULFUR DIOXIDE	10 PPM	NITROGEN
-252-10	CHLORINE	10 PPM	NITROGEN
-98-25	HYDROGEN SULFIDE	25 PPM	NITROGEN
-HCL-10	HYDROGEN CHLORIDE	10 PPM	NITROGEN
-HCN-10	HYDROGEN CYANIDE	10 PPM	NITROGEN
-PH3-1	PHOSPHINE	1 PPM	NITROGEN
-SIH4-10	SILANE	10 PPM	NITROGEN

*Recommended Aluminum cylinder sizes are 34, 58, 74, 116 and 116 liter ecosmart

Many More Mixtures available upon Request

REACTIVE MULTI-MIXTURES

GASCO P/N SUFFIX	CARBON MONOXIDE	METHANE	PENTANE	PROPANE	HYDROGEN SULFIDE	OXYGEN	BALANCE
-403E	50 PPM	1.62%VOL = (50% LEL PROPANE EQUIVALENT)			25 PPM	18.0%	NITROGEN
-404	100 PPM	50% LEL			25 PPM		AIR
-406	50 PPM	50% LEL			25 PPM	18.0%	NITROGEN
-409	50 PPM	50% LEL			25 PPM	12.0%	NITROGEN
-411	100 PPM		25% LEL		25 PPM	19.0%	NITROGEN
-412	50 PPM	50% LEL			25 PPM		AIR
-414	300 PPM	1.45% VOL. (58% LEL PENTANE SIMULANT)			10 PPM	15.0%	NITROGEN
-416	200 PPM	2.5% VOL. (50% LEL)			20 PPM	18.0%	NITROGEN
-421	100 PPM	50% LEL			25 PPM	18.0%	NITROGEN
-428-20	60 PPM	1.45% VOL. (58% LEL PENTANE SIMULANT)			20 PPM	15.0%	NITROGEN
-433	50 PPM	2.5% VOL. (50% LEL)	10 PPM SULFUR DIOXIDE			19.0%	NITROGEN
-437	50 PPM			1.05% vol. (48% LEL)	25 PPM	18.0%	NITROGEN
-450	100 PPM	50% LEL			40 PPM	15.0%	NITROGEN
-470-19	100 PPM			1.1% vol. (50% LEL)	25 PPM	19.0%	NITROGEN
-490T	200 PPM	2.5% VOL. (50% LEL)			10 PPM	18.0%	NITROGEN

*Recommended Aluminum cylinder sizes are 34, 58, 74, 116 and 116 liter ecosmart
10L Bump Gas Available

Many More Mixtures available upon Request

HOW TO ORDER GASES

The part number prefix is determined by the cylinder size (10L, 17L, 58L, etc.)
The part number suffix for each gas is determined by the gas mixture of interest and the gas concentration.

EXAMPLE

58L +

CO	=	100 PPM
C ₅ H ₁₂	=	25% LEL
H ₂ S	=	25 PPM
O ₂	=	19%
Nitrogen Balance		

-411

58L-411

- 1 Select the Cylinder. (pg 4-5)
- 2 Select the Gas. (pg 6)
- 3 Add the Gas Part Number to the Cylinder Part Number.

CARRYING CASES

These Carrying Cases are ideal for safely storing and transporting Gas Cylinders and Regulators. They are available in a soft canvas bag or a molded hard plastic case and are capable of holding 17, 34, 58, 103 and 116 Liter cylinders.



RETURN REFILL PROGRAM

Ecosmart Refillable Cylinder - GASCO is the leader in developing and launching refillable cylinder products. Call for instructions on this dynamic program!



We recommend recycling disposable cylinders. We will do this for any customer that wishes to return empty cylinders to us. Call for instructions.

Setting Standards. Exceeding Expectations.



Authorized Distributor:
CalGasOnline.com
Houston, TX USA
832-615-3588
sales@CalGasOnline.com