



EPA Protocol Mixtures (continued)

Multicomponent Mixtures	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Carbon Dioxide, Oxygen in Nitrogen Carbon Dioxide ≥ 400 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 36 months</i>	G0844018	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No.***	Series 3120	299
	G0844047	2R	77 ft ³	2.18 m ³		Series 3530	313
	G0844059	3R	29 ft ³	0.82 m ³			
Carbon Monoxide, Oxygen in Nitrogen Carbon Monoxide ≥ 8 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 36 months</i>	G0844218	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No.***	Series 3120	299
	G0844247	2R	77 ft ³	2.18 m ³		Series 3530	313
	G0844259	3R	29 ft ³	0.82 m ³			
Carbon Monoxide, Carbon Dioxide in Nitrogen Carbon Monoxide ≥ 8 ppm Carbon Dioxide ≥ 400 ppm <i>EPA Certification: 36 months</i>	G0843818	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 350	Series 3120	299
	G0843847	2R	77 ft ³	2.18 m ³		Series 3530	313
	G0843859	3R	29 ft ³	0.82 m ³			
Carbon Monoxide, Carbon Dioxide, Oxygen in Nitrogen Carbon Monoxide ≥ 8 ppm Carbon Dioxide ≥ 400 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 36 months</i>	G0845318	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No.***	Series 3120	299
	G0845347	2R	77 ft ³	2.18 m ³		Series 3530	313
	G0845359	3R	29 ft ³	0.82 m ³			
Methane, Oxygen in Nitrogen Methane ≥ 1 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 36 months</i>	G0843018	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No.***	Series 3120	299
	G0843047	2R	77 ft ³	2.18 m ³		Series 3530	313
	G0843059	3R	29 ft ³	0.82 m ³			
Nitric Oxide, Carbon Dioxide in Nitrogen Nitric Oxide ≥ 10 ppm Carbon Dioxide ≥ 400 ppm <i>EPA Certification: 24 months</i>	G0843618	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 660	Series 3810	318
	G0843647	2R	77 ft ³	2.18 m ³		Series 3510	312
	G0843659	3R	29 ft ³	0.82 m ³			
Nitric Oxide, Carbon Monoxide in Nitrogen Nitric Oxide ≥ 4 ppm Carbon Monoxide ≥ 8 ppm <i>EPA Certification: 24 months; if either concentration is less than the above, shelf life is six (6) months.</i>	G0843418	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 660	Series 3810	318
	G0843447	2R	77 ft ³	2.18 m ³		Series 3510	312
	G0843459	3R	29 ft ³	0.82 m ³			
Nitric Oxide, Carbon Monoxide, Carbon Dioxide in Nitrogen Nitric Oxide ≥ 10 ppm Carbon Monoxide ≥ 20 ppm Carbon Dioxide ≥ 400 ppm <i>EPA Certification: 24 months</i>	G0845718	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 660	Series 3810	318
	G0845747	2R	77 ft ³	2.18 m ³		Series 3510	312
	G0845759	3R	29 ft ³	0.82 m ³			
Nitric Oxide, Sulfur Dioxide in Nitrogen Nitric Oxide ≥ 10 ppm Sulfur Dioxide ≥ 40 ppm <i>EPA Certification: 24 months</i>	G0844418	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 660	Series 3810	318
	G0844447	2R	77 ft ³	2.18 m ³		Series 3610A	316
	G0844459	3R	29 ft ³	0.82 m ³			
Nitric Oxide, Sulfur Dioxide, Carbon Dioxide in Nitrogen Nitric Oxide ≥ 10 ppm Sulfur Dioxide ≥ 40 ppm Carbon Dioxide ≥ 400 ppm <i>EPA Certification: 24 month</i>	G0845418	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 660	Series 3810	318
	G0845447	2R	77 ft ³	2.18 m ³		Series 3510	312
	G0845459	3R	29 ft ³	0.82 m ³			
Nitric Oxide, Sulfur Dioxide, Carbon Monoxide in Nitrogen Nitric Oxide ≥ 10 ppm Sulfur Dioxide ≥ 40 ppm Carbon Monoxide ≥ 20 ppm <i>EPA Certification: 24 month</i>	G0845618	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 660	Series 3810	318
	G0845647	2R	77 ft ³	2.18 m ³		Series 3510	312
	G0845659	3R	29 ft ³	0.82 m ³			



Gas Mixtures – Products for Specialty Gas Applications

Environmental Compliance Standards

EPA Protocol Mixtures (continued)

Multicomponent Mixtures	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Propane, Carbon Dioxide, Oxygen in Nitrogen Propane ≥ 8 ppm Carbon Dioxide ≥ 400 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 36 months</i>	G0845218	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No.***	Series 3120 Series 3530	299 313
	G0845247	2R	77 ft ³	2.18 m ³			
	G0845259	3R	29 ft ³	0.82 m ³			
Propane, Carbon Monoxide in Air Propane ≥ 1 ppm Carbon Monoxide ≥ 8 ppm <i>EPA Certification: 36 months</i>	G0843118	1R	145 ft ³	4.11 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 590	Series 3120 Series 3530	299 313
	G0843147	2R	78 ft ³	2.21 m ³			
	G0843159	3R	29 ft ³	0.82 m ³			
Propane, Carbon Monoxide, Oxygen in Nitrogen Propane ≥ 1 ppm Carbon Monoxide ≥ 8 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 36 months</i>	G0845018	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No.***	Series 3120 Series 3530	299 313
	G0845047	2R	77 ft ³	2.18 m ³			
	G0845059	3R	29 ft ³	0.82 m ³			
Propane, Carbon Monoxide, Carbon Dioxide in Nitrogen Propane ≥ 1 ppm Carbon Monoxide ≥ 8 ppm Carbon Dioxide ≥ 400 ppm <i>EPA Certification: 36 month</i>	G0845518	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 350	Series 3120 Series 3530	299 313
	G0845547	2R	77 ft ³	2.18 m ³			
	G0845559	3R	29 ft ³	0.82 m ³			
Sulfur Dioxide, Oxygen in Nitrogen Sulfur Dioxide 40 to 499 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 24 months</i> Sulfur Dioxide ≥ 500 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 36 months</i>	G0843518	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No.***	Series 3810 Series 3510	318 312
	G0843547	2R	77 ft ³	2.18 m ³			
	G0843559	3R	29 ft ³	0.82 m ³			
Sulfur Dioxide, Carbon Dioxide in Nitrogen Sulfur Dioxide 40 to 499 ppm Carbon Dioxide ≥ 400 ppm <i>EPA Certification: 24 months</i> Sulfur Dioxide ≥ 500 ppm Carbon Dioxide ≥ 400 ppm <i>EPA Certification: 36 months</i>	G0843718	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 660	Series 3810 Series 3510	318 312
	G0843747	2R	77 ft ³	2.18 m ³			
	G0843759	3R	29 ft ³	0.82 m ³			
Sulfur Dioxide, Carbon Dioxide, Carbon Monoxide in Nitrogen Sulfur Dioxide 40 to 499 ppm Carbon Dioxide ≥ 400 ppm Carbon Monoxide ≥ 20 ppm <i>EPA Certification: 24 month</i>	G0845818	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No. 660	Series 3810 Series 3510	318 312
	G0845847	2R	77 ft ³	2.18 m ³			
	G0845859	3R	29 ft ³	0.82 m ³			
Sulfur Dioxide, Carbon Dioxide, Oxygen in Nitrogen Sulfur Dioxide 40 to 499 ppm Carbon Dioxide ≥ 400 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 24 months</i> Sulfur Dioxide ≥ 500 ppm Carbon Dioxide ≥ 400 ppm Oxygen ≥ 0.8 % <i>EPA Certification: 36 months</i>	G0845118	1R	143 ft ³	4.05 m ³	Dual Stage Reg. Single Stage Reg. Valve Outlet CGA No.***	Series 3810 Series 3510	318 312
	G0845147	2R	77 ft ³	2.18 m ³			
	G0845159	3R	29 ft ³	0.82 m ³			

*** Valve Outlet CGA Number is CGA 580 for concentration of Oxygen ≤ 5%, CGA 590 for concentration of Oxygen > 5% but ≤ 23%, and CGA 296 for concentration of Oxygen > 23%.

Note:

1. Mixes that do not meet the specifications described above, have a maximum shelf life of six (6) months
2. Certification periods are as prescribed by the EPA Protocol September 1997.
3. Mixes defined with a six (6) month shelf life can be recertified for a length of time defined by the higher concentration standard if the guidelines defined by the Protocol stability requirements are met.
4. Some mixes may not be available due to critical mix limitations and safety considerations.
5. To maintain mix stability, EPA Protocol gas mixes should not be used below 150 psig.
6. Please contact Matheson if your specific mix requirements are not listed.