



# Hydrogen Sulfide

Equipment Recommendations	Model No.	Page No.
Single Stage Regulator	<b>Series 3610A-CGA</b>	316
Mini High Purity Regulator	<b>Series 3570-180</b>	314
Low Dead Volume Regulator (for Concentrations < 50ppm)	<b>Series 3590-CGA*</b>	315

Balance Gas	Concentration Range	Matheson Mixtures Grades						Cylinder Size	CGA*	Contents		Pressure		Approximate Ship Weight			
		MR	P	C+	C	U	G			US	Metric	psig	kPa	lb	kg		
Air	1 ppm - 1 %			•	•		•	1I	660	145 ft <sup>3</sup>	4.11 m <sup>3</sup>	2,000	13,790	70	32		
								2I	660	78 ft <sup>3</sup>	2.21 m <sup>3</sup>	2,000	13,790	48	22		
								3I	660	29 ft <sup>3</sup>	0.82 m <sup>3</sup>	2,000	13,790	24	11		
								6I	180	3.73 ft <sup>3</sup>	106 L	1,800	12,411	2	1		
	1 % - 5 %			•	•	•	•	•	1P	330	215 ft <sup>3</sup>	6.09 m <sup>3</sup>	2,000	13,790	140	64	
									2P	330	84 ft <sup>3</sup>	2.38 m <sup>3</sup>	2,000	13,790	76	34	
									3P	330	36 ft <sup>3</sup>	1.01 m <sup>3</sup>	2,000	13,790	39	18	
									6P	330	4.62 ft <sup>3</sup>	0.13 m <sup>3</sup>	2,000	13,790	20	9	
		Helium	2 ppm - 50 ppm				•	•		1I	330	136 ft <sup>3</sup>	3.85 m <sup>3</sup>	2,000	13,790	70	32
										2I	330	73 ft <sup>3</sup>	2.07 m <sup>3</sup>	2,000	13,790	48	22
								3I	330	27 ft <sup>3</sup>	0.77 m <sup>3</sup>	2,000	13,790	24	11		
								6I	180	3.51 ft <sup>3</sup>	99 L	1,800	12,411	2	1		
50 ppm - 1 %					•	•	•		1R	330	136 ft <sup>3</sup>	3.85 m <sup>3</sup>	2,000	13,790	70	32	
									2R	330	73 ft <sup>3</sup>	2.07 m <sup>3</sup>	2,000	13,790	48	22	
									3R	330	27 ft <sup>3</sup>	0.77 m <sup>3</sup>	2,000	13,790	24	11	
									6R	180	3.51 ft <sup>3</sup>	99 L	1,800	12,411	2	1	
	1 % - 5 %				•	•	•	•		1P	330	202 ft <sup>3</sup>	5.72 m <sup>3</sup>	2,000	13,790	140	64
										2P	330	79 ft <sup>3</sup>	2.24 m <sup>3</sup>	2,000	13,790	76	34
								3P	330	34 ft <sup>3</sup>	0.96 m <sup>3</sup>	2,000	13,790	39	18		
								6P	330	4.34 ft <sup>3</sup>	0.12 m <sup>3</sup>	2,000	13,790	20	9		
Hydrogen		2 ppm - 50 ppm				•	•		1I	330	135 ft <sup>3</sup>	3.82 m <sup>3</sup>	2,000	13,790	70	32	
									2I	330	72 ft <sup>3</sup>	2.04 m <sup>3</sup>	2,000	13,790	48	22	
								3I	330	27 ft <sup>3</sup>	0.77 m <sup>3</sup>	2,000	13,790	24	11		
								6I	180	3.48 ft <sup>3</sup>	98 L	1,800	12,411	2	1		
	50 ppm - 1 %				•	•	•		1R	330	135 ft <sup>3</sup>	3.82 m <sup>3</sup>	2,000	13,790	70	32	
									2R	330	72 ft <sup>3</sup>	2.04 m <sup>3</sup>	2,000	13,790	48	22	
									3R	330	27 ft <sup>3</sup>	0.77 m <sup>3</sup>	2,000	13,790	24	11	
									6R	180	3.48 ft <sup>3</sup>	98 L	1,800	12,411	2	1	
		1 % - 5 %			•	•	•	•		1P	330	200 ft <sup>3</sup>	5.66 m <sup>3</sup>	2,000	13,790	140	64
										2P	330	78 ft <sup>3</sup>	2.21 m <sup>3</sup>	2,000	13,790	76	34
								3P	330	33 ft <sup>3</sup>	0.93 m <sup>3</sup>	2,000	13,790	39	18		
								6P	330	4.29 ft <sup>3</sup>	0.12 m <sup>3</sup>	2,000	13,790	20	9		
Methane	2 ppm - 50 ppm				•	•	•		1I	330	172 ft <sup>3</sup>	4.87 m <sup>3</sup>	2,000	13,790	70	32	
									2I	330	92 ft <sup>3</sup>	2.61 m <sup>3</sup>	2,000	13,790	48	22	
								3I	330	34 ft <sup>3</sup>	0.96 m <sup>3</sup>	2,000	13,790	24	11		
								6I	180	4.37 ft <sup>3</sup>	124 L	1,800	12,411	2	1		
	50 ppm - 1 %			•	•	•	•		1R	330	172 ft <sup>3</sup>	4.87 m <sup>3</sup>	2,000	13,790	70	32	
									2R	330	92 ft <sup>3</sup>	2.61 m <sup>3</sup>	2,000	13,790	48	22	
									3R	330	34 ft <sup>3</sup>	0.96 m <sup>3</sup>	2,000	13,790	24	11	
									6R	180	4.37 ft <sup>3</sup>	124 L	1,800	12,411	2	1	
		1 % - 5 %			•	•	•	•		1P	330	255 ft <sup>3</sup>	7.22 m <sup>3</sup>	2,000	13,790	140	64
										2P	330	100 ft <sup>3</sup>	2.83 m <sup>3</sup>	2,000	13,790	76	34
								3P	330	42 ft <sup>3</sup>	1.19 m <sup>3</sup>	2,000	13,790	39	18		
								6P	330	5.47 ft <sup>3</sup>	0.15 m <sup>3</sup>	2,000	13,790	20	9		

Contents and pressure may vary with concentration and ambient temperature.  
Certification traceable to NIST SRM.

**Key for Matheson Mixtures Grades:**

MR = Matheson Reference Standard    C+ = Certified Plus Standard    U = Unanalyzed Standard  
P = Primary Standard    C = Certified Standard    G = Gravimetric Standard

For more information on Matheson Mixture Grades, please refer to pages 66 - 68.



## Hydrogen Sulfide *(continued)*

Balance Gas	Concentration Range	Matheson Mixtures Grades						Cylinder Size	CGA*	Contents		Pressure		Approximate Ship Weight	
		MR	P	C+	C	U	G			US	Metric	psig	kPa	lb	kg
Nitrogen	0.5 ppm - 50 ppm	•	•	•	•	•		1I	330	143 ft <sup>3</sup>	4.05 m <sup>3</sup>	2,000	13,790	70	32
								2I	330	77 ft <sup>3</sup>	2.18 m <sup>3</sup>	2,000	13,790	48	22
								3I	330	29 ft <sup>3</sup>	0.82 m <sup>3</sup>	2,000	13,790	24	11
								6I	180	3.64 ft <sup>3</sup>	104 L	1,800	12,411	2	1
	50 ppm - 1 %	•	•	•	•	•		1R	330	143 ft <sup>3</sup>	4.05 m <sup>3</sup>	2,000	13,790	70	32
								2R	330	77 ft <sup>3</sup>	2.18 m <sup>3</sup>	2,000	13,790	48	22
								3R	330	29 ft <sup>3</sup>	0.82 m <sup>3</sup>	2,000	13,790	24	11
								6R	180	3.64 ft <sup>3</sup>	104 L	1,800	12,411	2	1
	1 % - 5 %		•	•	•	•		1P	330	213 ft <sup>3</sup>	6.03 m <sup>3</sup>	2,000	13,790	140	64
								2P	330	83 ft <sup>3</sup>	2.35 m <sup>3</sup>	2,000	13,790	76	34
								3P	330	35 ft <sup>3</sup>	0.99 m <sup>3</sup>	2,000	13,790	39	18
								6P	330	4.60 ft <sup>3</sup>	0.13 m <sup>3</sup>	2,000	13,790	20	9

Contents and pressure may vary with concentration and ambient temperature.  
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