



# Hydrogen

Equipment Recommendations	Model No.	Page No.
Single Stage Regulator	<b>Series 3530-CGA*</b>	313
Mini High Purity Regulator	<b>Series 3550-180</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	10 ppm - 2 %		•	•	•	•	•	1R	590	145 ft <sup>3</sup>	4.11 m <sup>3</sup>	2,000	13,790	70	32
								2R	590	78 ft <sup>3</sup>	2.21 m <sup>3</sup>	2,000	13,790	48	22
								3R	590	29 ft <sup>3</sup>	0.82 m <sup>3</sup>	2,000	13,790	24	11
								6R	180	3.73 ft <sup>3</sup>	106 L	1,800	12,411	2	1
Argon	10 ppm - 500 ppm			•	•	•	•	1R	350	152 ft <sup>3</sup>	4.30 m <sup>3</sup>	2,000	13,790	70	32
								2R	350	81 ft <sup>3</sup>	2.29 m <sup>3</sup>	2,000	13,790	48	22
								3R	350	30 ft <sup>3</sup>	0.85 m <sup>3</sup>	2,000	13,790	24	11
								6R	180	3.89 ft <sup>3</sup>	110 L	1,800	12,411	2	1
	500 ppm - 49 %		•	•	•	•	•	1A	350	225 ft <sup>3</sup>	6.37 m <sup>3</sup>	2,000	13,790	133	60
								2	350	88 ft <sup>3</sup>	2.49 m <sup>3</sup>	2,000	13,790	74	34
								3	350	38 ft <sup>3</sup>	1.07 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.89 ft <sup>3</sup>	110 L	1,800	12,411	2	1
Nitrogen	10 ppm - 500 ppm			•	•	•	•	1R	350	143 ft <sup>3</sup>	4.05 m <sup>3</sup>	2,000	13,790	70	32
								2R	350	77 ft <sup>3</sup>	2.68 m <sup>3</sup>	2,000	13,790	48	22
								3R	350	29 ft <sup>3</sup>	0.82 m <sup>3</sup>	2,000	13,790	24	11
								6R	180	3.69 ft <sup>3</sup>	104 L	1,800	12,411	2	1
	500 ppm - 49 %		•	•	•	•	•	1A	350	213 ft <sup>3</sup>	6.03 m <sup>3</sup>	2,000	13,790	133	60
								2	350	83 ft <sup>3</sup>	2.35 m <sup>3</sup>	2,000	13,790	74	34
								3	350	35 ft <sup>3</sup>	0.99 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.69 ft <sup>3</sup>	104 L	1,800	12,411	2	1

Contents and pressure may vary with concentration and ambient temperature.  
\*Only the 1% relative certification accuracy applies.

**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.