

Hydrogen (H₂)

- Other balance gases and cylinder sizes are available upon request.
- Batch Analysis: order quantities of 6 or more cylinders.

Hydrogen in Air			Pricing Reference Number			Equipment Recommendations		
Concentration	Cylinder Size	Contents ft ³	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	Delivery Pressure Range (psig)	Page Number
5 - 999 ppm	200	217	AIBPHYA	AIBCHYA	N/A	Two-Stage Regulators Y12-N145 * 590 Y12-244 * 590	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E14
	150A	146	AIEPHYA	AIECHYA	N/A			
	80	86	AICPHYA	AIFCHYA	N/A			E13
	35	34	AIDPHYA	AIGCHYA	N/A			
0.1 - 2%	200	217	AIBPHYB	AIBCHYB	N/A	Single-Stage Regulators Y11-N145 * 590 Y11-244 * 590		E13
	150A	146	AIEPHYB	AIECHYB	N/A			
	80	86	AICPHYB	AICCHYB	N/A			
	35	34	AIDPHYB	AIDCHYB	N/A			
Can not exceed 2% in Air. Primary Standards available for concentrations greater than 10 ppm. Standard Valve Outlet: CGA 590 Certificate of Analysis included.						* Insert Delivery Pressure Range Code ** Single Stage Only		

Hydrogen in Argon			Pricing Reference Number			Equipment Recommendations		
Concentration	Cylinder Size	Contents ft ³	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	Delivery Pressure Range (psig)	Page Number
1 - 99 ppm	200	227	ARBPHYA	ARBCHYA	ARBBHYA	Two-Stage Regulators Y12-N145 * 350 Y12-244 * 350	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E14
	150A	152	AREPHYA	ARECHYA	AREBHYA			
	80	90	ARCPHYA	ARCCHYA	ARCBHYA			E13
	35	32	ARDPHYA	ARDCHYA	ARDBHYA			
100 - 9999 ppm	200	227	ARBPHYB	ARBCHYB	ARBBHYB	Single-Stage Regulators Y11-N145 * 350 Y11-244 * 350		E13
	150A	152	AREPHYB	ARECHYB	AREBHYP			
	80	90	ARCPHYB	ARCCHYB	ARCBHYB			
	35	35	ARDPHYB	ARDCHYB	ARDBHYB			
1 - 50%	200	214	ARBPHYC	ARBCHYC	ARBBHYC			E13 E10
	80	85	ARCPHYC	ARCCHYC	ARCBHYC			
	35	33	ARDPHYC	ARDCHYC	ARDBHYC			
Primary Standards available for concentrations greater than 10 ppm. Standard Valve Outlet: CGA 350 Certificate of Analysis included.						* Insert Delivery Pressure Range Code ** Single Stage Only		

Hydrogen in Helium			Pricing Reference Number			Equipment Recommendations		
Concentration	Cylinder Size	Contents ft ³	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	Delivery Pressure Range (psig)	Page Number
1 - 99 ppm	200	196	HEBPHYA	HEBCHYA	HEBBHYA	Two-Stage Regulators Y12-N145 * 350 Y12-244 * 350	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E14
	150A	132	HEEPHYA	HEECHYA	HEEBHYA			
	80	77	HECPHYA	HECCHYA	HECBHYA			E13
	35	30	HEDPHYA	HEDCHYA	HEDBHYA			
100 - 9999 ppm	200	196	HEBPHYB	HEBCHYB	HEBBHYB	Single-Stage Regulators Y11-N145 * 350 Y11-244 * 350		E13
	150A	132	HEEPHYB	HEECHYB	HEEBHYB			
	80	77	HECPHYB	HECCHYB	HECBHYB			
	35	30	HEDPHYB	HEDCHYB	HEDBHYB			
1 - 50%	200	196	HEBPHYC	HEBCHYC	HEBBHYC			E13 E10
	80	77	HECPHYC	HECCHYC	HECBHYC			
	35	30	HEDPHYC	HEDCHYC	HEDBHYC			
Primary Standards available for concentrations greater than 10 ppm. Standard Valve Outlet: CGA 350 Certificate of Analysis included.						* Insert Delivery Pressure Range Code ** Single Stage Only		

Hydrogen (H₂) Cont.

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Hydrogen in Nitrogen			Pricing Reference Number			Equipment Recommendations		
Concentration	Cylinder Size	Contents ft ³	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	Delivery Pressure Range (psig)	Page Number
1 - 99 ppm	200	214	NIBPHYA	NIBCHYA	NIBBHYA	Two-Stage Regulators Y12-N145 * 350	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E14
	150A	144	NIEPHYA	NIECHYA	NIEBHYA			
	80	85	NICPHYA	NICCHYA	NICBHYA			
	35	33	NIDPHYA	NIDCHYA	NIDBHYA			
100 - 9999 ppm	200	214	NIBPHYB	NIBCHYB	NIBBHYP	Single-Stage Regulators Y11-N145 * 350		E11
	150A	144	NIEPHYB	NIECHYB	NIEBHYP			
	80	85	NICPHYB	NICCHYB	NICBHYP			
	35	33	NIDPHYB	NIDCHYB	NIDBHYP			
1 - 50%	200	207	NIBPHYC	NIBCHYC	NIBBHYP	Y11-N145 * 350		E13
	80	82	NICPHYC	NICCHYC	NICBHYP			
	35	32	NIDPHYC	NIDCHYC	NIDBHYP			

Primary Standards available for concentrations greater than 10 ppm.
Standard Valve Outlet: CGA 350
Certificate of Analysis included.

* Insert Delivery Pressure Range Code
** Single Stage Only

Gas Mixtures

Technical Data & Shipping Information	
Cylinder Pressure	2000 psig
U.S. DOT Class:	
H ₂ in Air, or ≤ 2.93% in Ar, or ≤ 8.2% in He, or ≤ 5.7% in N ₂	2.2
All Others	2.1
U.S. DOT Label:	
H ₂ in Air, or ≤ 2.93% in Ar, or ≤ 8.2% in He, or ≤ 5.7% in N ₂	Nonflammable Gas
All Others	Flammable Gas
ID Number:	
H ₂ in Air, or ≤ 2.93% in Ar, or ≤ 8.2% in He, or ≤ 5.7% in N ₂	UN1956
All Others	UN1954

You'll find it with us—a wide range of specialty gas equipment designed especially for gas mixtures.



Pictured: Y12-N145