

## Hydrogen

A colorless, odorless, flammable gas.

Technical Information:	
Chemical Symbol:	H <sub>2</sub>
Molecular Weight:	2.02
Specific Volume	192 ft <sup>3</sup> /lb (11.9 m <sup>3</sup> /kg)
CAS Registry Number:	1333-74-0

Shipping Information:	
DOT Proper Name:	Hydrogen, Compressed
Hazard Class:	2.1
I.D. Number:	UN 1049
Labels:	Flammable Gas

Grade	Part No.	Purity	Impurity	Specification	Equipment Recommended
<b>PurityPlus 6.0 (Research)</b>	HYD-60-XXX	99.9996%	Oxygen Water Nitrogen THC CO/CO <sub>2</sub>	< 0.2 ppm < 0.5 ppm < 0.3 ppm < 0.1 ppm < 0.1 ppm	300 series brass regulator see page 4.20
<b>PurityPlus 5.5 (Chromatograph)</b>	HYD-55-XXX	99.9995%	Oxygen Water Nitrogen Methane Carbon Dioxide Carbon Monoxide	< 0.5 ppm < 2 ppm < 2 ppm < 0.2 ppm < 0.1 ppm < 0.2 ppm	300 series brass regulator see page 4.20
<b>PurityPlus 5.0 (Ultra High Purity)</b>	HYD-50-XXX	99.999%	Oxygen Moisture Nitrogen Total Hydrocarbons	< 1 ppm < 2 ppm < 5 ppm < 0.5 ppm	300 series brass regulator see page 4.20
<b>PurityPlus Zero 4.5</b>	HYD-45-XXX	99.995%	Total Hydrocarbons	< 0.5 ppm	300 series brass regulator see page 4.20
<b>PurityPlus 4.0 (Prepurified)</b>	HYD-40-XXX	99.99%	Moisture Oxygen	< 10 ppm < 20 ppm	300 series brass regulator see page 4.20

XXX - Complete the part number with the desired cylinder size listed below. (ie. HYD-50-300)

Standard Cylinder Sizes *	Contents ft <sup>3</sup> /m <sup>3</sup>	Cylinder Pressure PSIG	CGA Valve Connection
300	261	2400	350
200	195	2000	350
80	71	2000	350

\*Nonstandard cylinder sizes available upon request