



# INDUSTRIAL HYGIENE

## DISPOSABLE STEEL CYLINDERS

### HYDROGEN - 1049

#### HYDROGEN (PURE GAS)

Grade - Minimum Purity	Cylinder Size	Volume (ft <sup>3</sup> )	PSIG	CGA	Catalog Number	Regulator Recommended
Grade 4.0 99.99%	17L	0.6	240	600	DSP P1049	400 series, 4903-600, 6600, or 8600
	34L	1.2	500	600	DSP H1049	400 series, 4903-600, 6600, or 8600
	103L	3.6	1000	C10	DSP J1049	500 series, 4903, 6C10
	221L	7.5	260	165	DSP M1049	6165, 701
	550L	19.5	2200	350	DSP E1049	8000 series, 900-30 or HP Series

**Notes** 1. Certificate of Analysis available upon request for a nominal fee.

**Certification Period** 36 months

**Shipping Information**  
 D.O.T. Proper Shipping Name: Hydrogen, compressed  
 I.D. Number: UN1049  
 Hazard Class: 2.1  
 Shipping Labels: Flammable Gas

#### HYDROGEN (PPM) BALANCE AIR CERTIFIED GRADE ±5% ANALYTICAL ACCURACY

Concentrations* Available	Cylinder Size	Volume (ft <sup>3</sup> )	PSIG	CGA	Catalog Number	Regulator Recommended
100ppm	17L	0.6	240	600	DSP P1049*PA	400 series, 4903-600, 6600, or 8600
500ppm	34L	1.2	500	600	DSP H1049*PA	400 series, 4903-600, 6600, or 8600
1000ppm	103L	3.6	1000	C10	DSP J1049*PA	500 series, 4903, 6C10
2000ppm	221L	7.5	260	165	DSP M1049*PA	6165, 701
	550L	19.5	2200	590	DSP E1049*PA	8000 series, 900-30 or HP Series

**Notes**  
 1. Concentration(s) listed are available stock items. Complete catalog number by replacing the \* with concentration number.  
 2. Other concentrations available upon request. Create custom catalog number by replacing the \* with your desired concentration.  
 3. Certificate of Analysis available upon request for a nominal fee.

**Certification Period** 36 months

**Shipping Information**  
 D.O.T. Proper Shipping Name: Compressed gas, n.o.s., (Air, Hydrogen)  
 I.D. Number: UN1956  
 Hazard Class: 2.2  
 Shipping Labels: Nonflammable Gas



# INDUSTRIAL HYGIENE

## DISPOSABLE STEEL CYLINDERS

### HYDROGEN - 1049

HYDROGEN (10% L.E.L.) BALANCE AIR CERTIFIED GRADE $\pm 5\%$ ANALYTICAL ACCURACY						
Concentrations* Available	Cylinder Size	Volume (ft <sup>3</sup> )	PSIG	CGA	Catalog Number	Regulator Recommended
10% L.E.L. (0.40%)	17L	0.6	240	600	DSP P104910LA	400 series, 4903-600, 6600, or 8600
	34L	1.2	500	600	DSP H104910LA	400 series, 4903-600, 6600, or 8600
	103L	3.6	1000	C10	DSP J104910LA	500 series, 4903, 6C10
	221L	7.5	260	165	DSP M104910LA	6165, 701
	550L	19.5	2200	590	DSP E104910LA	8000 series, 900-30 or HP Series
20% L.E.L. (0.80%)	17L	0.6	240	600	DSP P104920LA	400 series, 4903-600, 6600, or 8600
	34L	1.2	500	600	DSP H104920LA	400 series, 4903-600, 6600, or 8600
	103L	3.6	1000	C10	DSP J104920LA	500 series, 4903, 6C10
	221L	7.5	260	165	DSP M104920LA	6165, 701
	550L	19.5	2200	590	DSP E104920LA	8000 series, 900-30 or HP Series
25% L.E.L. (1.00%)	17L	0.6	240	600	DSP P104925LA	400 series, 4903-600, 6600, or 8600
	34L	1.2	500	600	DSP H104925LA	400 series, 4903-600, 6600, or 8600
	103L	3.6	1000	C10	DSP J104925LA	500 series, 4903, 6C10
	221L	7.5	260	165	DSP M104925LA	6165, 701
	550L	19.5	2200	590	DSP E104925LA	8000 series, 900-30 or HP Series
50% L.E.L. (2.00%)	17L	0.6	240	600	DSP P104950LA	400 series, 4903-600, 6600, or 8600
	34L	1.2	500	600	DSP H104950LA	400 series, 4903-600, 6600, or 8600
	103L	3.6	1000	C10	DSP J104950LA	500 series, 4903, 6C10
	221L	7.5	260	165	DSP M104950LA	6165, 701
	550L	19.5	2200	590	DSP E104950LA	8000 series, 900-30 or HP Series
<b>Notes</b>	1. Certificate of Analysis available upon request for a nominal fee.					
<b>Certification Period</b>	36 months					
<b>Shipping Information</b>	D.O.T. Proper Shipping Name: Compressed gas, n.o.s., (Air, Hydrogen) I.D. Number: UN1956 Hazard Class: 2.2 Shipping Labels: Nonflammable Gas					



# INDUSTRIAL HYGIENE

## DISPOSABLE STEEL CYLINDERS

### HYDROGEN - 1049

HYDROGEN (PPM) BALANCE NITROGEN CERTIFIED GRADE $\pm 5\%$ ANALYTICAL ACCURACY						
Concentration*	Cylinder Size	Volume (ft <sup>3</sup> )	PSIG	CGA	Catalog Number	Regulator Recommended
100ppm	17L	0.6	240	600	DSP P1049*PN	400 series, 4903-600, 6600, or 8600
	34L	1.2	500	600	DSP H1049*PN	400 series, 4903-600, 6600, or 8600
2000ppm	103L	3.6	1000	C10	DSP J1049*PN	500 series, 4903, 6C10
	221L	7.5	260	165	DSP M1049*PN	6165, 701
	550L	19.5	2200	350	DSP E1049*PN	8000 series, 900-30 or HP Series
<b>Notes</b>	1. Concentration(s) listed are available stock items. Complete catalog number by replacing the * with concentration number. 2. Other concentrations available upon request. Create custom catalog number by replacing the * with your desired concentration. 3. Certificate of Analysis available upon request for a nominal fee.					
<b>Certification Period</b>	36 months					
<b>Shipping Information</b>	D.O.T. Proper Shipping Name: Compressed gas, n.o.s., (Nitrogen, Hydrogen) I.D. Number: UN1956 Hazard Class: 2.2 Shipping Labels: Nonflammable Gas					

HYDROGEN (%) BALANCE NITROGEN CERTIFIED GRADE $\pm 5\%$ ANALYTICAL ACCURACY						
Concentration*	Cylinder Size	Volume (ft <sup>3</sup> )	PSIG	CGA	Catalog Number	Regulator Recommended
1%	17L	0.6	240	600	DSV P1049*VN	400 series, 4903-600, 6600, or 8600
	34L	1.2	500	600	DSV H1049*VN	400 series, 4903-600, 6600, or 8600
30%	103L	3.6	1000	C10	DSV J1049*VN	500 series, 4903, 6C10
	221L	7.5	260	165	DSV M1049*VN	6165, 701
	550L	19.5	2200	350	DSV E1049*VN	8000 series, 900-30 or HP Series
<b>Notes</b>	1. Concentration(s) listed are available stock items. Complete catalog number by replacing the * with concentration number. 2. Other concentrations available upon request. Create custom catalog number by replacing the * with your desired concentration. 3. Certificate of Analysis available upon request for a nominal fee.					
<b>Certification Period</b>	36 months					
<b>Shipping Information</b>	<b>&lt; 5.7%</b> D.O.T. Proper Shipping Name: Compressed gas, n.o.s., (Nitrogen, Hydrogen) I.D. Number: UN1956 Hazard Class: 2.2 Shipping Labels: Nonflammable Gas			<b><math>\geq 5.7\%</math></b> Compressed gas, flammable, n.o.s., (Nitrogen, Hydrogen) UN1954 2.1 Flammable Gas		



# INDUSTRIAL HYGIENE

## DISPOSABLE STEEL CYLINDERS

### HYDROGEN - 1049

HYDROGEN (PPM) / OXYGEN / BALANCE NITROGEN CERTIFIED GRADE $\pm 5\%$ ANALYTICAL ACCURACY							
Minor Component Concentrations*		Cylinder Size	Volume (ft <sup>3</sup> )	PSIG	CGA	Catalog Number	Regulator Recommended
Hydrogen	Oxygen						
800ppm	2%	17L	0.6	240	600	DSP P1049800PM1	400 series, 4903-600, 6600, or 8600
		34L	1.2	500	600	DSP H1049800PM1	400 series, 4903-600, 6600, or 8600
		103L	3.6	1000	C10	DSP J1049800PM1	500 series, 4903, 6C10
		221L	7.5	260	165	DSP M1049800PM1	6165, 701
		550L	19.5	2200	350	DSP E1049800PM1	8000 series, 900-30 or HP Series
5000ppm	19%	17L	0.6	240	600	DSP P10495000PM1	400 series, 4903-600, 6600, or 8600
		34L	1.2	500	600	DSP H10495000PM1	400 series, 4903-600, 6600, or 8600
		103L	3.6	1000	C10	DSP J10495000PM1	500 series, 4903, 6C10
		221L	7.5	260	165	DSP M10495000PM1	6165, 701
		550L	19.5	2200	590	DSP E10495000PM1	8000 series, 900-30 or HP Series
<b>Notes</b>		1. Concentration(s) listed are available stock items. 2. Other concentrations available upon request. 3. Certificate of Analysis available upon request for a nominal fee.					
<b>Certification Period</b>		36 months					
<b>Shipping Information</b>		D.O.T. Proper Shipping Name: Compressed gas, n.o.s., (Nitrogen, Hydrogen) I.D. Number: UN1956 Hazard Class: 2.2 Shipping Labels: Nonflammable Gas					