

TABLE 1 — ALPHABETICAL LIST OF GASES AND CONNECTIONS ASSIGNED

GAS	STANDARD		LIMITED STANDARD		ALTERNATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	COMPLETE 1/1/92
Acetylene	Over 50 cu. ft. (1.32 m <sup>3</sup> )	510		300, 410 <sup>ⓐ</sup>	410 <sup>ⓐ</sup>
	Between 35 (970 L) and 75 cu. ft. (2.08 m <sup>3</sup> )		520		
	Approx. 10 cu. ft. (280 L)		200		
Air (R728)	Up to 3000 psig Threaded (20 680 kPa) Yoke	346		500	
	3001-5500 psig (20 680-37 800 kPa)	950	550 <sup>ⓐ</sup>	650 <sup>ⓐ</sup>	
	5501-7500 psig (38 000-51 700 kPa)		702		ⓐ
	Cryogenic Liquid Withdrawal	440			
Arsine		510			
Allylene: See Methylacetylene					
Ammonia (R717)	Threaded	240, 705		600	
	Yoke	600, 645			
Antimony Pentafluoride		330			
Argon	Up to 3000 psig (20 680 kPa)	550			
	3001-5500 psig (20 680-37 800 kPa)		600		677
	5501-7500 psig (38 000-51 700 kPa)		677		
	Cryogenic Liquid Withdrawal	295			
Arsine		350		600	
Bis (Trifluoromethyl) Peroxide: See Hexafluoro(dimethyl) Peroxide					
Boron Chloride: See Boron Trichloride					
Boron Fluoride: See Boron Trifluoride					
Boron Trichloride		660			330
Boron Trifluoride	330				
Bromine Pentafluoride	670				
Bromine Trifluoride	670				
Bromoacetone		690			330
Bromochlorodifluoromethane (R12B1)		690	165, 182		668
Bromochloromethane		690	165, 182		668
Bromoethylene: See Vinyl Bromide					
Bromomethane: See Methyl Bromide					
Bromotrifluoroethylene (R113B1)	510				660
Bromotrifluoromethane (R13B1)		660	165, 182		668
1, 3-Butadiene		510			
Butane (R600)	Gas Withdrawal	510			
	Liquid Withdrawal	555			
1-Butene		510			
2-Butene		510			

ⓐ Limited Standard for Canada only. ⓑ Limited to SCUBA (Self-Contained Underwater Breathing Apparatus) use. ⓐ Was formerly CGA 1310.  
 ⓑ Connection 677 which had been assigned to include high pressure air in V-1 (1977) became obsolete for air with the publication of V-1 (1987).

**TABLE 1 — ALPHABETICAL LIST OF GASES AND CONNECTIONS ASSIGNED (Cont'd.)**

GAS	STANDARD		LIMITED STANDARD		ALTERNATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	OBSOLETE 1/1/82
<i>α</i> -Butylene: See 1-Butene					
<i>β</i> -Butylene: See 2-Butene					
1-Butyne: See Ethylacetylene					
Carbon Dioxide (R744)	Threaded	320			
	Yoke	840			
Carbonic Acid: See Carbon Dioxide					
Carbon Monoxide	350				
Carbon Oxysulfide: See Carbonyl Sulfide					
Carbon Tetrafluoride: See Tetrafluoromethane					
Carbonyl Chloride: See Phosgene					
Carbonyl Fluoride		660			750
Carbonyl Sulfide	330				
Chlorine	Threaded			660 <sup>2</sup>	
	Yoke	620			
Chlorine Pentafluoride	670				
Chlorine Trifluoride	670				
1-Chloro-1, 1-difluoroethane (R142b)	510				660
Chlorodifluoromethane (R22)		660	165, 182		666
Chloroethane: See Ethyl Chloride					
Chloroethylene: See Vinyl Chloride					
Chlorofluoromethane (R31)	510				
Chloroheptafluorocyclobutane (RC317)		660	165, 182		666
Chloromethane: See Methyl Chloride					
Chloropentafluoroethane (R115)		660	165, 182		668
1-Chloro-1, 2, 2, 2-tetrafluoroethane (R124)		660	165, 182		668
1-Chloro-2, 2, 2-trifluoroethane (R133a)		660	165, 182		668
Chlorotrifluoroethylene (R113)	510				660
Chlorotrifluoromethane (R13)		660	165, 182	320	666
Cyanogen		660			750
Cyanogen Chloride		660			760
Cyclobutane	510				
Cyclopropane	Threaded	510			
	Yoke	920			
Deuterium	350				
Deuterium Chloride	330				
Deuterium Fluoride		670		660	330
Deuterium Selenide	350			660	

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TABLE 1 — ALPHABETICAL LIST OF GASES AND CONNECTIONS ASSIGNED (Cont'd.)

GAS	STANDARD		LIFTED STANDARD		ACTUATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	OBSOLETE 1/1/82
Deuterium Sulfide	330				
Diborane	350				
Dibromodifluoroethane		660	165, 182		668
Dibromodifluoromethane (R12B2)		660	165, 182		668
1, 2-Dibromotetrafluoroethane (R114B2)		660	165, 182		668
1, 2-Dichlorodifluoroethylene		660	165, 182		668
Dichlorodifluoromethane (R12)		660	165, 182		668
1, 2-Dichloroethylene (R1130)		660	165, 182		668
Dichlorofluoromethane (R21)		660	165, 182		668
1, 2-Dichlorohexafluorocyclobutane (RC316)		660	165, 182		668
Dichlorosilane		678			330
1, 1-Dichlorotetrafluoroethane (R114a)		660	165, 182		668
1, 2-Dichlorotetrafluoroethane (R114)		660	165, 182		668
2, 2-Dichloro-1, 1, 1-trifluoroethane (R123)		660	165, 182		668
Dicyan: See Cyanogen					
Diethylzinc		510			750
Difluorodibromoethane: See Dibromodifluoroethane					
Difluorodibromomethane: See Dibromodifluoromethane					
1, 1-Difluoroethane (R152a)	510				660
1, 1-Difluoroethylene (R1132a)	350				
Difluoromethane: See Methylene Fluoride					
Difluoromonochloroethane: See Chlorodifluoroethane					
Dimethylamine	705				240
Dimethyl Ether	510				
Dimethylhexafluoroperoxide: See Hexafluorodimethyl Peroxide					
2, 2-Dimethylpropane	510				
Dinitrogen Oxide: See Nitrous Oxide					
Dinitrogen Tetroxide: See Nitrogen Dioxide					
Dinitrogen Trioxide: See Nitrogen Trioxide					
Diphosgene		660			750
Epoxyethane: See Ethylene Oxide					
Ethene (R170)	380				
Ethene: See Ethylene					

TABLE 1 — ALPHABETICAL LIST OF GASES AND CONNECTIONS ASSIGNED (Cont'd.)

GAS	STANDARD		LIMITED STANDARD		ALTERNATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	OBSOLETE 1/1/82
Ethylacetylene	510				
Ethylamine: See Monoethylamine					
Ethyl Chloride (R160)		300			510
Ethylchloroarsine		660			750
Ethylene (R1150)	Threaded	350			
	Yoke	800			
Ethylene dichloride: See Dichloroethylene					
Ethylene Oxide	510				
Ethyl Ether	510				
Ethyl Fluoride		660			750
Ethylene Fluoride: See 1, 1-Difluoroethane					
Ethyl Methyl Ether: See Methyl Ethyl Ether					
Ethyne: See Acetylene					
Fluorine	679				
Fluoroethylene: See Vinyl Fluoride					
Fluoroform (R23)		660	185, 182	320	666
Fluoromethane: See Methyl Fluoride					
Gases in Small Cylinders: See "Introduction" Par. 2.6					
Germane		350		660	750
Helium	Up to 3000 psig Threaded	590			
	(20 680 kPa) Yoke	630			
	3001-5500 psig (20 660-37 900 kPa)		660		677
	5501-7900 psig (38 000-51 700 kPa)		677		
	Cryogenic Liquid Withdrawal	792			
Heptafluorobutyronitrile		660			750
Hexafluoroacetone	330				660
Hexafluorocyclobutene		660			750
Hexafluorodimethyl Peroxide		660			755
Hexafluoroethane (R116)		660	185, 182	320	666
Hexafluoro-2-propanone: See Hexafluoroacetone					
Hexafluoropropylene		660	185, 182		666
Hydriodic Acid, Anhydrous: See Hydrogen Iodide					
Hydrobromic Acid, Anhydrous: See Hydrogen Bromide					
Hydrochloric Acid, Anhydrous: See Hydrogen Chloride					
Hydrocyanic Acid, Anhydrous: See Hydrogen Cyanide					

TABLE 1 — ALPHABETICAL LIST OF GASES AND CONNECTIONS ASSIGNED (Cont'd.)

GAS	STANDARD		LIMITED STANDARD		ALTERNATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	OBSELETE 1/1/82
Hydrofluoric Acid, Anhydrous: <i>See Hydrogen Fluoride</i>					
Hydrogen	Up to 3000 psig (20 680 kPa)	350			
	3001-5500 psig (20 690-37 900 kPa)		695		677
	5501-7500 psig (38 000-51 700 kPa)		703		677
	Cryogenic Liquid Withdrawal	795			
Hydrogen Bromide	330				
Hydrogen Chloride	330				
Hydrogen Cyanide		650			750
Hydrogen Fluoride		670		660	330
Hydrogen Iodide	330				
Hydrogen Selenide	350			660	
Hydrogen Sulfide	330				
Industrial Gas Mixtures: <i>See CGA Pamphlet V-7</i>					
Iodine Pentafluoride	670				
Isocyanlene: <i>See 3-Methyl-1-butene</i>					
Isobutane (R601)	510				
Isobutene: <i>See Isobutylene</i>					
Isobutylene	510				
Isopropylmethylene: <i>See 3-Methyl-1-butene</i>					
Krypton	Up to 3000 psig (20 680 kPa)	580			
	3001-5500 psig (20 690-37 900 kPa)		680		677
	5501-7500 psig (38 000-51 700 kPa)		677		
Laughing Gas: <i>See Nitrous Oxide</i>					
Lewisite [Dichloro (2-chlorovinyl) arsine]		660			750
Liquid Dioxide: <i>See Nitrogen Dioxide</i>					
Marsh Gas: <i>See Methane</i>					
Medical Gas Mixtures: <i>See Table 2, page 23</i>					
Methane (R50)	Up to 3000 psig (20 680 kPa)	350			
	3001-5500 psig (20 690-37 900 kPa)		695		677
	5501-7500 psig (38 000-51 700 kPa)		703		677
	Cryogenic Liquid Withdrawal	450			
Methanethiol: <i>See Methyl Mercaptan</i>					
Methoxyethylene: <i>See Vinyl Methyl Ether</i>					
Methylacetylene	510				
Methylamine: <i>See Monomethylamine</i>					
Methyl Bromide	330			320	
3-Methyl-1-butene	510				
Methyl Chloride (R40)	510			660	

TABLE 1 — ALPHABETICAL LIST OF GASES AND CONNECTIONS ASSIGNED (Cont'd.)

GAS	STANDARD		LIMITED STANDARD		ALTERNATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	OBSOLETE 1/1/82
Methyldichloroarsine		660			750
Methylene Fluoride (R32)	320				
Methyl Ether: See Dimethyl Ether					
Methyl Ethyl Ether	510				
Methyl Fluoride (R41)	350				
Methyl Iodide		660			
Methyl Mercaptan	330				750
2-Methylpropene: See Isobutylene					
Methyl Vinyl Ether: See Vinyl Methyl Ether					
Monochlorodifluoromethane: See Chlorodifluoromethane					
Monochloropentafluoroethane: See Chloropentafluoroethane					
Monochlorotetrafluoroethane: See Chlorotetrafluoroethane					
Monochlorotrifluoromethane: See Chlorotrifluoromethane					
Monoethylamine (R631)	705				240
Monomethylamine (R630)	705				240
Mustard Gas [Bis (2-chloroethyl) Sulfide]		660			750
Natural Gas	Up to 3000 psig (20 680 kPa)	350			
	3001-5500 psig (20 680-37 900 kPa)		666		677
	5501-7500 psig(38 000-51 700 kPa)		703		677
	Cryogenic Liquid Withdrawal	450			
Neon	Up to 3000 psig (20 680 kPa)	560			
	3001-5500 psig (20 680-37 900 kPa)		680		677
	5501-7500 psig(38 000-51 700 kPa)		677		
	Cryogenic Liquid Withdrawal	792			
Neopentane: See 2, 2-Dimethylpropane					
Nickel Carbonyl		660			750
Nickel Tetracarbonyl: See Nickel Carbonyl					
Nitric Oxide		660			755
Nitrogen	Up to 3000 psig Threaded (20 680 kPa)	580		555, 590	
	Up to 3000 psig Yoke (20 680 kPa)	660			
	3001-5500 psig (20 680-37 900 kPa)		680		677
	5501-7500 psig(38 000-51 700 kPa)		677		
	Cryogenic Liquid Withdrawal	295			
Nitrogen Dioxide		660			160, 755
Nitrogen Peroxide: See Nitrogen Dioxide					
Nitrogen Sesquioxide: See Nitrogen Trioxide					

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GAS	STANDARD		LIMITED STANDARD		ALTERNATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	OBsolete 1/1/82
Nitrogen Tetraoxide: See Nitrogen Dioxide					
Nitrogen Trifluoride		330			679
Nitrogen Trioxide		660			755
Nitrosyl Chloride	330			660	
Nitrosyl Fluoride	330				
Nitrous Oxide (R744a)	Threaded	326			
	Yoke	810			
Nitryl Fluoride	330				
Octafluorocyclobutane (RC318)		660	165, 182		668
Octafluoropropane (R218)		660	165, 182		668
Oxirane: See Ethylene Oxide					
Oxygen	Up to 3000 psig (20 680 kPa)	Threaded	540		
		Yoke	870		
	3001-4000 psig (20 690-27 580 kPa)			577	
	4001-5500 psig (27 590-37 800 kPa)			701	
	Cryogenic Liquid Withdrawal		440		
Oxygen Difluoride		679			
Ozone					755
Pentaborane		350			660, 750
Pentachlorofluoroethane		660	165, 182		668
Pentafluoroethane (R125)		660	165, 182		668
Pentafluoroethyl Iodide		660	165, 182		668
Pentafluoropropionitrile		660			750
Perchloryl Fluoride	670				
Perfluoroacetone: See Hexafluoroacetone					
Perfluorobutane		660	165, 182		668
Perfluoro-2-butene		660	165, 182		668
Perfluorocyclobutane: See Octafluorocyclobutane					
Perfluorodimethyl Peroxide: See Hexafluorodimethyl Peroxide					
Perfluoroethane: See Hexafluoroethane					
Perfluoropropane: See Octafluoropropane					
Phenylcarbylamine Chloride	330				
Phosgene		660		160	750
Phosphine	350			660	
Phosphorous Pentafluoride	330			660	
Phosphorous Trifluoride	330			660	

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GAS	STANDARD		LIMITED STANDARD		ALTERNATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	OBSOLETE 1/1/92
Propadiene: See Allene					
Propane (R290)	Gas Withdrawal	510		600	
	Liquid Withdrawal	555			
Propane: See Propylene					
Propylene (R1270)	510			600	
Propyne: See Methylacetylene					
<b>"REFRIGERANTS" — Numerical Listing</b>					
R11: See Trichlorofluoromethane					
R12: See Dichlorodifluoromethane					
R12B1: See Bromochlorodifluoromethane					
R12B2: See Dibromodifluoromethane					
R13: See Chlorotrifluoromethane					
R13B1: See Bromotrifluoromethane					
R14: See Tetrafluoromethane					
R21: See Dichlorodifluoromethane					
R22: See Chlorodifluoromethane					
R23: See Fluoroform					
R31: See Chlorofluoromethane					
R32: See Methylene Fluoride					
R40: See Methyl Chloride					
R41: See Methyl Fluoride					
R50: See Methane					
R112: See 1,1,2,2-Tetrachlorodifluoroethane					
R112a: See 1,1,1,2-Tetrachlorodifluoroethane					
R113: See 1,1,2-Trichlorotrifluoroethane					
R113B1: See Bromotrifluoroethylene					
R114: See 1,2-Dichlorotetrafluoroethane					
R114a: See 1,1-Dichlorotetrafluoroethane					
R114B2: See 1,2-Dibromotetrafluoroethane					
R115: See Chloropentafluoroethane					
R116: See Hexafluoroethane					
R129: See 2,2-Dichloro-1,1,1-trifluoroethane					
R124: See 1-Chloro-1,2,2,2-tetrafluoroethane					
R125: See Pentafluoroethane					
R133a: See 1-Chloro-2,2,2-trifluoroethane					
R142b: See 1-Chloro-1,1-difluoroethane					
R143a: See 1,1,1-Trifluoroethane					
R152a: See 1,1-Difluoroethane					

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GAS	STANDARD		LIMITED STANDARD		ALTERNATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	OBSOLETE 1/1/82
<i>"REFRIGERANTS"—Numerical Listing (continued)</i>					
R160: See Ethyl Chloride					
R170: See Ethane					
R218: See Octafluoropropane					
R290: See Propane					
RC316: See Dichlorohexafluorocyclobutane					
RC317: See Chloroheptafluorocyclobutane					
RC318: See Octafluorocyclobutane					
R600: See Butane					
R601: See Isobutane					
R630: See Monomethylamine					
R631: See Monoethylamine					
R717: See Ammonia					
R729: See Air					
R744: See Carbon Dioxide					
R744a: See Nitrous Oxide					
R764: See Sulfur Dioxide					
R1113: See Chlorotrifluoroethylene					
R1114: See Tetrafluoroethylene					
R1130: See 1,2-Dichloroethylene					
R1132a: See 1,1-Difluoroethylene					
R1140: See Vinyl Chloride					
R1141: See Vinyl Fluoride					
R1150: See Ethylene					
R1270: See Propylene					
Silane	Up to 500 psig (3 450 kPa)	510			
	Up to 3000 psig (20 680 kPa)	350			
Silicon Tetrafluoride	330				
Silicon Tetrahydride: See Silane					
Stibine	350				
Sulfur Dioxide (R764)		660			668
Sulfur Hexafluoride		590			668
Sulfur Tetrafluoride	330				
Sulfuryl Fluoride		660			330
1,1,1,2-Tetrachlorodifluoroethane (R112a)		660	165, 182		668
1,1,2,2-Tetrachlorodifluoroethane (R112)		660	165, 182		668

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GAS	STANDARD		LIMITED STANDARD		ALTERNATE STANDARD
	EXISTING	ADDED IN 1987	EXISTING	ADDED IN 1987	COMPLETE 1/1/92
1,1,2-Tetrafluoro-1-chloroethane		660	165, 182		668
Tetrafluoroethylene (R114)	350		165, 182		
Tetrafluorohydrazine	679				
Tetrafluoromethane (R14)	580			320	
Tetrafluorosilane: See Silicon Tetrafluoride					
Tetramethyllead					750
Tetramethylmethane: See 2,2-Dimethylpropane					
Trichlorofluoromethane (R11)		660			668
Trichloromonofluoromethane: See Trichlorofluoromethane					
1,1,1-Trichlorotrifluoroethane		660	165, 182		668
1,1,2-Trichlorotrifluoroethane (R113)		660			668
Triethylaluminum		510			750
Triethylborane		680			750
Trifluoroacetonitrile		680			750
Trifluoroacetyl Chloride	330				
Trifluorobromomethane: See Bromotrifluoromethane					
Trifluorochloroethylene: See Chlorotrifluoroethylene					
1,1,1-Trifluoroethane (R143a)	510				
Trifluoroethylene	510				
Trifluoromethane: See Fluoroform					
Trifluoromethyl Chloride: See Chlorotrifluoromethane					
Trifluoromethyl Hypofluorite	679				
Trifluoromethyl Iodide		660	165, 182		668
Trifluorovinyl Bromide: See Bromotrifluoroethylene					
Trimethylamine	705				240
Trimethylene: See Cyclopropane					
Trimethylmethane: See Isobutane					
Trimethylsilylene					750
Tungsten Hexafluoride		670			330
Uranium Hexafluoride	330				
Vinyl Bromide	510			290	
Vinyl Chloride (R1140)	510			290	
Vinyl Fluoride (R1141)	350				

