

020

Oxygen (A Fitting)
Standard cylinder valve outlet connection for pressures up to 200 psig (1,380 kPa). Cylinder valve outlet thread:
.375-24UNF-2A-RH-EXT Typically used for CGA V-1 Connection Number 020, 021

Valve Outlet Dimensions
Minor Diameter = .3228 REF
Pitch Diameter = .3468 - .3430
Major Diameter = .3739 - .3667
Connection Nut Dimensions
Major Diameter = .375 Minimum
Pitch Diameter = .3479 - .3528
Minor Diameter = .330 - .340

021

Fuel Gases (A Fitting)
Standard cylinder valve outlet connection for pressures up to 200 psig (1,380 kPa):
.375-24UNF-2A-LH-EXT
Typically used for CGA V-1 Connection Number 020, 021

Valve Outlet Dimensions
Minor Diameter = .3228 REF
Pitch Diameter = .3468 - .3430
Major Diameter = .3739 - .3667
Connection Nut Dimensions
Major Diameter = .375 Minimum
Pitch Diameter = .3479 - .3528
Minor Diameter = .330 - .340

022

Oxygen (B Fitting)
Standard cylinder valve outlet connection for pressures up to 200 psig (1,380 kPa):
.5625-18UNF-2A-RH-EXT
Typically used for CGA V-1 Connection Number 022, 023

Valve Outlet Dimensions
Minor Diameter = .4929 REF
Pitch Diameter = .5250 - .5205
Major Diameter = .5611 - .5524
Connection Nut Dimensions
Major Diameter = .5625 Minimum
Pitch Diameter = .5264 - .5323
Minor Diameter = .502 - .515

023

Fuel Gases (B Fitting)
Standard cylinder valve outlet connection for pressures up to 200 psig (1,380 kPa):
.5625-18UNF-2A-LH-EXT Typically used for CGA V-1 Connection Number 022, 023

Valve Outlet Dimensions
Minor Diameter = .4929 REF
Pitch Diameter = .5250 - .5205
Major Diameter = .5611 - .5524
Connection Nut Dimensions
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Pitch Diameter = .5264 - .5323
Minor Diameter = .502 - .515

024

Oxygen (C Fitting)
Standard cylinder valve outlet connection for pressures up to 200 psig (1,380 kPa):
.875-14UNF-2A-RH-EXT
Typically used for CGA V-1 Connection Number 024, 025, 034, 035

Valve Outlet Dimensions
Minor Diameter = .7858 REF
Pitch Diameter = .8270 - .8216
Major Diameter = .8734 - .8631

Connection Nut Dimensions
Major Diameter = .875 Minimum
Pitch Diameter = .8286 - .8356
Minor Diameter = .798 - .814

025

Fuel Gases (C Fitting)
Standard cylinder valve outlet connection for pressures up to 200 psig (1,380 kPa):
.875-14UNF-2A-LH-EXT Typically used for CGA V-1 Connection Number 024, 025, 034, 035

Valve Outlet Dimensions
Minor Diameter = .7858 REF
Pitch Diameter = .8270 - .8216
Major Diameter = .8734 - .8631

Connection Nut Dimensions
Major Diameter = .875 Minimum
Pitch Diameter = .8286 - .8356
Minor Diameter = .798 - .814

032

Inert Gases (B Fitting)
Standard cylinder valve outlet connection for pressures up to 200 psig (1,380 kPa):
.625-18UNF-2B-RH-INT
Typically used for CGA V-1 Connection Number 032, 033

Valve Outlet Dimensions
Minor Diameter = .565 - .578
Pitch Diameter = .5889 - .5949
Major Diameter = .625 Minimum

Connection Nut Dimensions
Major Diameter = .6236 - .6149
Pitch Diameter = .5875 - .5828
Minor Diameter = .5554 REF

033

Industrial Air, Water (B Fitting)
Standard cylinder valve outlet connection for pressures up to 200 psig (1,380 kPa):
.625-18UNF-2B-LH-INT Typically used for CGA V-1 Connection Number 032, 033

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Minor Diameter = .565 - .578
Pitch Diameter = .5889 - .5949
Major Diameter = .625 Minimum

Connection Nut Dimensions
Major Diameter = .6236 - .6149
Pitch Diameter = .5875 - .5828
Minor Diameter = .5554 REF

034

Inert Gases (C Fitting)
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.875-14UNF-2B-RH-INT
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Major Diameter = .875 Minimum
Pitch Diameter = .8286 - .8356
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035

Industrial Air, Water (C Fitting)
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160

Phosgene

240

Ammonia

290

Vinyl Bromide,
Vinyl Chloride,
Vinyl Methyl Ether

300

Ethyl Chloride

320

Carbon Dioxide,
Methyl Fluoride

326

Nitrous Oxide

330

Antimony Pentafluoride, Boron Trifluoride, Carbonyl Sulfide, Deuterium Chloride, Deuterium Sulfide, Hexafluoroacetone, Hydrogen Bromide, Hydrogen Chloride, Hydrogen Iodide, Hydrogen Sulfide, Methyl Bromide, Methyl Mercaptan, Nitrogen Trifluoride, Nitrosyl Chloride, Nitrosyl Fluoride, Nitryl Fluoride, Phenylcarbamylamine Chloride, Phosphorous Pentafluoride, Phosphorous Trifluoride, Silicon Tetrafluoride, Sulfur Tetrafluoride, Trifluoroacetyl Chloride, Uranium Hexafluoride

346

Air

350

Arsine, Carbon Monoxide, Deuterium, Deuterium Selenide, Diborane, 1,1-Difluoroethylene, Ethane, Ethylene, Germane, Hydrogen, Hydrogen Selenide, Methane, Methyl Fluoride, Methylene Fluoride, Natural Gas, Pentaborane, Phosphine, Silane, Stibine, Tetrafluoroethylene, Vinyl Fluoride

510

Acetylene, Allene, Bromotrifluoroethylene, 1,3-Butadiene, Butane, 1-Butene, 2-Butene, 1-Chloro-1,1-difluoroethane, Chlorofluoromethane, Chlorotrifluoroethylene, Cyclobutane, Cyclopropane, Diethylzinc, 1,1-Difluoroethane, Dimethyl Ether, 2,2-Dimethylpropane, Ethylacetylene, Ethylene Oxide, Ethyl Ether, Isobutane, Isobutylene, Methane, Methylacetylene, 3-Methyl-1-Butene, Methyl Chloride, Methyl Ethyl Ether, Natural Gas, Propane, Propylene, Silane, Triethylaluminum, 1,1,1-Trifluoroethane Trifluoroethylene, Vinyl Bromide, Vinyl Chloride, Vinyl Methyl Ether

540

Oxygen

555

Liquid withdrawal of Butane and Propane

580

Argon, Helium, Krypton, Neon, Nitrogen, Tetrafluoro Methane, Xenon

590

Sulfur Hexafluoride

670

Bromine Pentafluoride, Bromine Trifluoride, Chlorine Pentafluoride, Chlorine Trifluoride, Deuterium Fluoride, Hydrogen Fluoride, Iodine Pentafluoride, Nitrogen Trifluoride, Perchloryl Fluoride, Tungsten Hexafluoride

792

Liquid withdrawal of Helium and Neon