

CGA Connector Specifications & Recommended Colors for Medical Gases

The dangerous practices of using a DISS outlet connection for gases other than for those for which they are designed and/or removing pins from a pin index yoke assembly should not be tolerated. To minimize the possibility of a user inadvertently or deliberately linking devices to gas sources not approved nor suited for specific uses, the Compressed Gas Association has published specifications for connectors. These specifications require that both ends match before a connection can be achieved. To ensure that the proper coupling is made, the mating parts are "keyed" to each other by means of pin index locations or matching thread diameters, sizes and or pitch. The table below lists the common gases and the appropriate threaded or yoke and post valve connection for each gas. The United States and Canada color codes for gas cylinders are also listed.

Medical Gas	CGA Yoke Spec V-1	CGA Nut & Nipple Spec V-1	DISS Spec V-5	CGA Color Spec C-9	Canada Color
Carbon Dioxide	CGA 940	CGA 320	1080	Gray	Gray
Carbon Dioxide (> 7%) / Oxygen Mix	CGA 940	CGA 500	1080	Gray/Green	Gray
Carbon Dioxide (≤ 7%) / Oxygen Mix	CGA 880	CGA 280	1200	Gray/Green	Gray
Gas Evacuation			2220		
Helium	CGA 930	CGA 580	1060	Brown	Brown
Helium (> 80%) / Oxygen Mix	CGA 930	CGA 500	1060	Brown/Green	Brown
Helium (≤80%) / Oxygen (20%) Mix	CGA 890	CGA 280	1180	Brown/Green	Brown
Helium (70%) / Oxygen (30%) Mix	CGA 890	CGA 280	1180	Brown/Green	Brown
Helium (60%) / Oxygen (40%) Mix	CGA 890	CGA 280	1180	Brown/Green	Brown
Nitric Oxide		CGA 660			
Nitric Oxide / Medical Gas Mix		CGA 626			
Nitrogen	CGA 960	CGA 580	1120	Black	Black
Nitrous Oxide	CGA 910	CGA 326	1040	Blue	Blue
Nitrous Oxide / Oxygen Mix (47.5 to 52.5%)	CGA 965	CGA 280	2020	Blue	Blue
Medical Air (≤ 3000 psi)	CGA 950	CGA 346	1160	Yellow	Black & White
Medical Air (3001 to 5500 psi)	CGA 347		1160	Yellow	Black & White
Medical Gas Mix	CGA 973	CGA 500	1020		
Oxygen	CGA 870	CGA 540	1240	Green	White
Octafluoropropane (C3F8)		CGA 165			
Sulfur Hexafluoride (SF6)		CGA 170			
Vacuum			1220	White	Yellow