



# MS-900 SELF-ADHESIVE MEDICAL GAS MARKERS

Technical Data

### Description

MS-900 self-adhesive medical gas markers are premium grade thermoplastic with an acrylic pressure-sensitive adhesive. They are used to provide line service designations and system color-coding. Manufactured per NFPA-99C; CGA C-9-2002 "Standard Industry Color Coding Recommendations for Medical Gases."



- Color, legend and flow direction combine on one pressure-sensitive marker for easy installation
- Clearly shows both contents and flow direction
- Supplied in rolls of 100 labels or individual pieces

### Physical and Chemical Characteristics

<b>Base Material:</b>	Premium-grade Thermoplastic
<b>Material Thickness:</b>	.004" (.1 mm)
<b>Service Temperature:</b>	-50°F to 180°F (-45°C to 82°C)
<b>Application Temperature:</b>	+50°F (10°C)
<b>Chemical Resistance:</b>	Good
<b>Water Resistance:</b>	Excellent
<b>Expected Outdoor Durability:</b>	Indoor Use Only
<b>Storage Durability:</b>	Up to 2 Years
<b>Abrasion Resistance:</b>	Good
<b>Mounting:</b>	Permanent pressure sensitive acrylic adhesive backing
<b>Finish:</b>	n/a
<b>Text Height:</b>	Designed to meet ANSI & ASME Standards (See chart)
<b>Typical Sizes:</b>	Designed to meet ANSI & ASME Standards (See chart)
<b>Standard Colors:</b>	Designed to meet NFPA-99C; CGA C-9-2002 "Standard Industry Color Coding Recommendations for Medical Gases. (See chart)
<b>Options:</b>	Custom Sizes Available
<b>Chemical Table:</b>	Acid Resistance: Good Alkalis Resistance: Good Salts Resistance: Good

Information on physical and chemical characteristics is based on tests we believe to be reliable. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material for their specific application.

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Marker Sizes and Letter Heights

Style Marker	Marker Size	Letter Size	Pipe Outer Diameter (including insulation)
Roll or Sheet	3" x 3"	.25"	Up to 0.75"
Sheet	4" x 4"	.5"	0.875" – 1.25"
Sheet	6" x 6"	.75"	1.375" – 1.75"

Designation of Medical Gas Colors

GAS SERVICE	ABBREVIATED NAME	STANDARD GAUGE PRESSURE	COLORS (BACKGROUND/TEXT)	
Carbon Dioxide	CO <sub>2</sub>	50-55 psi	Gray/Black or Gray/White	
Helium	He	50-55 psi	Brown/White	
Instrument Air		160-185 psi	Red/White	
Laboratory Air		None	Yellow and White Checkerboard/Black	
Laboratory Vacuum		None	White and Black Checkerboard/Black Boxed	
Medical Air	Med Air	50-55 psi	Yellow/Black	
Medical–Surgical Vacuum	Med Vac	15 in to 30 in HgV	White/Black	
Nitrogen	N <sub>2</sub>	160-185 psi	Black/White	
Nitrous Oxide	N <sub>2</sub> O	50-55 psi	Blue/White	
Nonmedical Air (Level 3 gas-powered device)		None	Yellow and White Diagonal Stripe/Black	
Nonmedical Vacuum and Level 3 Vacuum		None	White and Black Diagonal Stripe/Black Boxed	
Oxygen	O <sub>2</sub>	50-55 psi	Green/White or White/Green	
Oxygen/Carbon Dioxide Mixtures	O <sub>2</sub> , CO <sub>2</sub> n% (n is % of CO <sub>2</sub> )	50-55 psi	Green/White	
Waste Anesthetic Gas Disposal	WAGD	Varies with system type	Violet/White	
Other Mixtures	Gas A%/Gas B%	None	Colors as above for major gas background/minor gas for text	