



## MS-970 COILED MEDICAL GAS MARKERS

Technical Data

### Description

MS-970 coiled plastic Medical Gas pipe markers are designed to identify piping in a wide variety of environments. They stay in place on pipes due to the memory of the coiling process and therefore do not rely on a pressure-sensitive adhesive.



No preparation of the pipe surface is required for application, so installation time is reduced compared to conventional stick-on marker systems. Legends are sub-surface printed so they are protected by a layer of plastic.

Ideal for dirty or sweating pipes where adhesive markers cannot be used. No pipe surface preparation needed. Coiled construction quickly snaps around pipe. All MS-970 pipe markers are manufactured using material which has been independently tested and meets the requirements of UL-94 classification V-0 for self-extinguishing materials.

Standard and custom legends available. Flow direction arrows are printed on each marker. Manufactured per NFPA-99C; CGA C-9-2002 "Standard Industry Color Coding Recommendations for Medical Gases"

### Physical and Chemical Characteristics

<b>Base Material:</b>	Premium-grade Thermoplastic
<b>Material Thickness:</b>	.020" (.508 mm)   .015" (.38 mm)
<b>Service Temperature:</b>	40°F to 160°F (4°C to 71°C)
<b>Application Temperature:</b>	+50°F (10°C)
<b>Chemical Resistance:</b>	Excellent
<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>	Excellent
<b>Mounting:</b>	Adhesive Tape Strip (Coiled) / Cable Ties (Flat)
<b>Finish:</b>	Subsurface printed with Gloss Finish
<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 ANSI & ASME Standards (See chart)
<b>Options:</b>	Custom Sizes Available
<b>Chemical Table:</b>	n/a



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## Marker Sizes and Text Heights

Pipe Diameter (Including Insulation)	Style Marker	Material Thickness	Marker Width	Text Height
1/4" – 3/8"	TM	.010"	3"	1/4"
1/2" – 1"	A	.015"	8"	1/2"
1-1/8" – 2-1/4"	B	.015"	8"	3/4"
2-3/8" – 3-1/4"	C	.020"	12"	1-1/4"

## 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	

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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3902 81 Avenue Leduc, AB T9E 0C3

Ph: 844.986.8480 | Email: mscsales@markserv.com | Website: www.markservcanada.ca