Marking Services Incorporated

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.

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

Base Material:	Premium-grade Thermoplastic
Material Thickness:	.017” (.43 mm) | .012" (.30 mm)
Service Temperature:	40°F to 160°F (4°C to 71°C)
Application Temperature:	+50°F (10°C)
Chemical Resistance:	Excellent
Water Resistance:	Excellent
Expected Outdoor Durability:	Indoor Use Only
Storage Durability:	Up to 2 Years
Abrasion Resistance:	Excellent
Mounting:	Adhesive Tape Strip (Coiled) / Cable Ties (Flat)
Finish:	Subsurface printed with Gloss Finish
Text Height:	Designed to meet ANSI & ASME Standards (See chart)
Typical Sizes:	Designed to meet ANSI & ASME Standards (See chart)
Standard Colors:	Designed to meet ANSI & ASME Standards (See chart)
Options:	Custom Sizes Available
Chemical Table:	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	.012"	3"	1/4"
1/2" – 1"	A	.012"	8"	1/2"
1-1/8" – 2-1/4"	B	.012"	8"	3/4"
2-3/8" – 3-1/4"	C	.017"	12"	1-1/4"

Designation of Medical Gas Colors

GAS SERVICE	ABBREVIATED NAME	STANDARD GAUGE PRESSURE	COLORS (BACKGROUND/TEXT)	
Carbon Dioxide	CO_2	50-55 psi	Gray/Black or Gray/White	SAMPLE
Helium	He	50-55 psi	Brown/White	SAMPLE
Instrument Air		160-185 psi	Red/White	SAMPLE
Laboratory Air		None	Yellow and White Checkerboard/Black	SAMPLE
Laboratory Vacuum		None	White and Black Checkerboard/Black Boxed	SAMPLE
Medical Air	Med Air	50-55 psi	Yellow/Black	SAMPLE
Medical–Surgical Vacuum	Med Vac	15 in to 30 in HgV	White/Black	SAMPLE
Nitrogen	N_2	160-185 psi	Black/White	SAMPLE
Nitrous Oxide	N_2O	50-55 psi	Blue/White	SAMPLE
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	SAMPLE
Oxygen	O_2	50-55 psi	Green/White or White/Green	SAMPLE
Oxygen/Carbon Dioxide Mixtures	O_2, CO_2 *n*% (*n* is % of CO_2)	50-55 psi	Green/White	SAMPLE
Waste Anesthetic Gas Disposal	WAGD	Varies with system type	Violet/White	SAMPLE
Other Mixtures	Gas A%/Gas B%	None	Colors as above for major gas background/minor gas for text	

Updated on 11/14/2023

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