



# MS-900 Self-Adhesive Pipe Markers with MS-1000

## Technical Data

**NATURAL GAS**

**CWS**



**125# STEAM HPS**



### Description

MS-900 UV Self-Adhesive Pipe Markers are specially designed for outdoor use. They are manufactured from premium grade thermoplastic with a permanent pressure sensitive adhesive. The film and graphics are laminated with MS-1000 providing not only additional chemical resistance but also excellent UV and fade resistance for extended outdoor durability. They are used to provide line service designations, system color-coding or various labeling needs. MS-900 UV markers conform to the ASME A 13.1 "Scheme for the Identification of Piping Systems" with regard to label colors, overall size and text height. Flow directional arrow tape or individual arrow markers are used with pipe markers to indicate direction of flow. MS-900 UV markers are available in a variety of standard and custom colors including clear. Also available with an optional scored arrow.

### Physical and Chemical Characteristics

<b>Base Material:</b>	Premium-grade Thermoplastic w/ MS-1000 Overlaminat
<b>Material Thickness:</b>	.005" (.127 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>	Excellent
<b>Water Resistance:</b>	Excellent
<b>Expected Outdoor Durability:</b>	Very Good (Up to 5 Years) Tested to ASTM D 7869
<b>Storage Durability:</b>	Up to 2 Years
<b>Abrasion Resistance:</b>	Very Good
<b>Mounting:</b>	Permanent pressure sensitive acrylic adhesive backing
<b>Finish:</b>	Gloss Surface
<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>	Acid Resistance: Good Alkalis Resistance: Good Salts Resistance: Good

### Label Sizes & Letter Heights

Marker Size	Pipe Diameter (Including insulation)	Marker Style	Color Field	Letter Height
1" x 8"	3/4" – 2-1/4"	A	8" long	3/4"
2-1/4" x 13"	2-1/2" – 7-7/8"	B	13" long	1-3/4"
4" x 24"	8" – 10"	C	24" long	2-1/2"
4" x 32"	Over 10"	D	32" long	3-1/2"

\*Individual arrow markers are the same width and one-half the length of the pipe markers

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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Designation of Colors (ASME A13.1-2023 & ANSI Z535-2017)

Designation of Colors — ASME A13.1-2023 & ANSI Z535-2017 Standards		
Classification	Color Scheme	
<b>Defined Applications</b>		
Firefighting	White text on red	Sample
Toxic or corrosive	Black text on orange	Sample
Flammable, combustible, or oxidizing	Black text on yellow	Sample
Steam; or steam condensate, boiler feedwater, or other hot water	Black text on gray	Sample
Potable, cooling, or other cold or tepid water	White text on green	Sample
Compressed air	White text on blue	Sample
<b>Undefined Applications</b>		
Defined by user	White text on purple	Sample
Defined by user	Black text on white	Sample
Defined by user	White text on brown	Sample
Defined by user	White text on black	Sample

Designation of Colors (ASME A13.1-2015 & ANSI Z535-2017)

Designation of Colors — ASME A13.1-2015 & ANSI Z535-2017 Standards		
Classification	Color Scheme	
<b>Defined Applications</b>		
Fire quenching liquids	White text on red	Sample
Toxic and corrosive fluids	Black text on orange	Sample
Flammable fluids	Black text on yellow	Sample
Combustible fluids	White text on brown	Sample
Potable, cooling, boiler feed and other water	White text on green	Sample
Compressed air	White text on blue	Sample
<b>Undefined Applications</b>		
Defined by user	White text on purple	Sample
Defined by user	Black text on white	Sample
Defined by user	White text on gray	Sample
Defined by user	White text on black	Sample

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