



MS-900TO SELF-ADHESIVE PIPE MARKERS

Technical Data

FIRE/SMOKE DAMPER

CHILLED WATER RETURN

Description

MS-900TO 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-900TO 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-900TO markers are available in a variety of standard and custom colors including clear.

Physical and Chemical Characteristics

Base Material for MS-900:	.004" (.1 mm) thick
Service Temperature:	-50°F through 180°F (-45°C thru 82°C)
Application Temperature:	+50°F (10°C)
Water Resistance:	Excellent
UV Resistance:	Good
Chemical Resistance:	Resistant to acids; alkalis and salts
Expected Outdoor Durability:	5 years
Storage Durability:	Two years when stored at +73°F (22°C) and 50% relative humidity
Finish:	Gloss surface
Text Height:	Sized to fit within label boundary or comply with specified height
Mounting:	Permanent pressure sensitive acrylic adhesive backing
Standard Colors Available:	Clear, White, Red, Green, Yellow, Orange, Blue, Black. Custom colors available upon request.

Label Sizes and Letter Heights

Marker Size	Pipe Diameter	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.





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

Designation of Colors — ASME A13.1-2015 & ANSI Z535-2017 Standards		
Classification	Color Scheme	
Defined Applications		
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
Undefined Applications		
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

Designation of Colors (ANSI/ASME A13.1-1996)

Designation of Colors — ANSI/ASME A13.1-1996 Standards		
Classification	Color Scheme	
Materials Inherently Hazardous		
Flammable or Explosive, Chemically Active or Toxic, Extreme Temperature or Pressures, Radioactive	Black text on yellow	Sample
Materials Inherently Low Hazard		
Liquid or Liquid Admixture (non-hazardous materials)	White text on green	Sample
Gas or Gaseous Admixture (non-hazardous materials)	White text on blue	Sample
Fire Quenching Materials		
Water, Foam, CO2, Halon, etc.	White text on red	Sample

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.

Revised on 8/25/2020

