ASME A13.1 2007

Looking for high-quality, standards-compliant pipe markers? Start shopping now...

- Our premium banding tapes are available in exact match colors.
- Even the legend sizes and adhesives on our markers are in compliance.
- The products we offer are in compliance with both ANSI and ASME A13.1 2007.

Latest Revision ANSI / ASME A13.1 2007:

ANSI / ASME A13.1 is the most common pipe identification standard used in the United States, and until the latest revision dated 2007 the standard has been unchanged for nearly a half a century. The standard specifies the primary and secondary means of identifying pipe content, as well as, the size, color and placement of the identification device.

Primary Identification:

The legend (name of the pipe content) and directional flow arrow remain the primary means of identifying pipe content. The size and placement of the marker and arrow has not changed. See ANSI/ ASME Size Chart below and installation guide for details.

Secondary Identification:

The secondary means of identification is the color code of the marker. That portion of the standard has changed dramatically. In addition, the terminology of inherently hazardous or non hazardous has been removed from the standard. The most obvious change, which will affect most of Brimar's customers is the color code assignment of two of the most widely use color combination of Yellow/ Black and Green / White. The combination of Yellow /Black is now assigned with flammable fluids and Green / White shall now identify potable, coiling, boiler feed and other waters. These two changes mean that legends such as hot water, cold water and steam will now all use the color code of Green / White.

The other significant color changes include the addition of Brown / White for combustible fluids and Orange / Black for toxic and corrosive fluids. The fact that the standards has identified specific colors for flammable fluids, combustible fluids and toxic or corrosive fluids means that Brimar and our customers must consult Material Safety Data Sheets before selecting a color. Further, if the pipe content contains multiple hazards (flammable and toxic) it must be determined which poses the greatest risk. In another example, if chilled or heating water systems contain a toxic treatment the color combination should be Orange / Black. The new 2007 standard also for the first time identifies four additional user defined color combinations and specifically identifies all of the actual colors to be used. The exact colors are contained in the ANSI Z535.1-2007 standard.

Pipemarker.com meets ANSI & ASME A13.1 2007 Type and Letter Size requirements:

Brimar applies the use of sans serif gothic bold lettering (Arial Bold) when creating our markers to provide high readability and contrast with marker color.

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Pipemarker.com meets ANSI & ASME A13.1 2007 Marker Size requirements:

Brimar follows the size recommendations supplied on this standard for all of our pipe marking products.

Pipemarker.com meets ANSI & ASME A13.1 2007 Color requirements:

Brimar's color selection matches the color scheme specified in the ANSI Z535.1 2002 (ANSI Z53.1) latest standards.

ANSI / ASME Color Code Comparison

ANSI / ASME A13.1 1996 Color Scheme:

Materials Inherently Hazardous	Materials of Inherently Low Hazard	Materials of Inherently Low Hazard	Fire Quenching Materials
• Flammable or Explosive • Chemical Active or Toxic • Extreme Temperature of Pressures • Radioactive	• Liquid or Liquid Admixture (non-hazardous materials)	• Gas or Gaseous Admixture (non-hazardous materials)	• Water, Foam, CO2, Halon, etc. (sprinkler systems or fire protection equipment)
Yellow Bkgd / Black Legend	Green Bkgd / White Legend	Blue Bkgd / White Legend	Red Bkgd / White Legend

ANSI / ASME A13.1 2007 Color Scheme:

FLUID SERVICE	COLOR COMBINATIONS
Fire Quenching Fluids	Safety Red Background / White Legend
Toxic & Corrosive Fluids	Safety Orange Background / Black Legend
Flammable Fluids	Safety Yellow Background / Black Legend
Combustible Fluids	Safety Brown Background /White Legend
Potable, Cooling, Boiler feed, & other Water	Safety Green Background/ White Legend
Compressed Air	Safety Blue Background / White Legend
Defined by the User	Safety Purple Background / White Legend
Defined by the User	Safety White Background / Black Legend
Defined by the User	Safety Gray Background / White Legend
Defined by the User	Safety Black Background / White Legend

ANSI / ASME A13.1 2007 Size Chart (Pipe Overall Diameter, Marker Size & Letter height)

The following chart shows the recommended pipe marker letter height and marker size based on the outside pipe diameter of the pipe to be identified. For pipes smaller than 3/4" and for valve identification, the use of a permanent legible tag is recommended.

For pipes with O.D. of 3/4" to 1-1/4"
(19 to 32mm)
Legend Size: 1/2" (13mm) high
Marker Size: 8" (200mm) wide

For pipes with O.D. of 1-1/2" to 2-3/8"
(38 to 60mm)
Legend Size: 3/4" (19mm) high
Marker Size: 8" (200mm) wide

For pipes with O.D. of 2-1/2" to 7-7/8"
(64 to 150mm)
Legend Size: 1-1/4" (32mm) high
Marker Size: 14" (355mm) wide

For pipes with O.D. of 8" to 10"
(200 to 250mm)
Legend Size: 2-1/2" (64mm) high
Marker Size: 24" (600mm) wide

For pipes with O.D. over 10"
(250mm)
Legend Size: 3-1/2" (89mm) high
Marker Size: 32" (800mm) wide

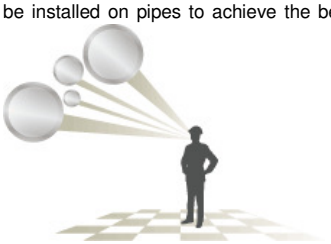
Pipe O.D.	Text Size	Marker Size	Maximum Characters
3/4" - 1 1/4"	0.5"	8" wide	22
1 1/2" - 2 3/8"	0.75"	8" wide	18
2 1/2" - 7 7/8"	1.25"	12" wide	22
8" - 10"	2.5"	24" wide	22
Over 10"	3.5"	32" wide	22

Compliance:

The new standard does not require the replacement of previously installed markers. The standard only applies to new installations. Brimar products comply with ANSI / ASME A13.1 standards and we are committed to a uniform standard of pipe identification. However, we recognize that it's not possible or realistic for everyone to adopt the new 2007 standard immediately and therefore Brimar will continue to offer markers that comply with the old and new standards. The Product Compliance Guide on the right shows the products that comply with the new standard. In addition, within the stock lists of each of these products, Brimar has identified which color combinations comply with which standard.

Installation Guide

Legends shall be installed close to valves Legends shall be installed near branches and whenever a pipe changes direction. Legends shall be installed before and after all wall, floor and ceiling penetrations. Legends shall be at frequent intervals on straight pipe runs. Brimar recommends 20 ft. Legends shall be installed on pipes to achieve the best visibility.



The above information is an accurate interpretation of the standard and related changes. To obtain a copy of the latest ANSI / ASME A13.1-2007 visit www.asme.org

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All Brimar products are manufactured in the USA

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