

Маркировка труб

Технические характеристики

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Pipe Marking Guide

Pipe Marking

ASME (ANSI) Standard A13.1-2007

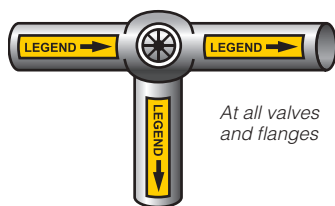
The ASME (ANSI) Standard for pipe identification is a widely used guideline in determining pipe identification requirements. The purpose of the standard is to:

- Assist in identification of hazardous materials conveyed in piping systems and their hazards when released into the environment
- Pipes are defined as conduits for the transport of gases, liquids, semi-liquids or fine particulate dust

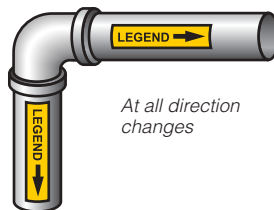


Marker placement

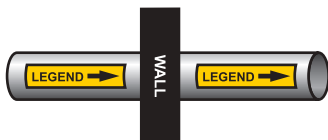
ASME (ANSI) A13.1-2007 visibility standard states that markers shall be located so that they are readily visible to plant personnel from the point of normal approach.



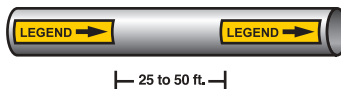
At all valves and flanges



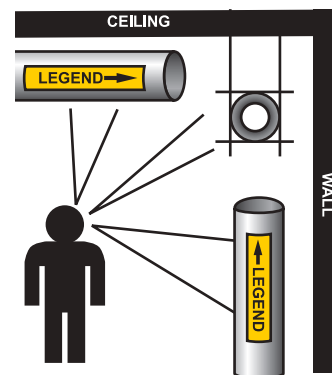
At all direction changes



At both sides of floor or wall penetrations



Every 25 to 50 ft. intervals on straight runs



Placement of the marker may be above or below the centerline of the pipe, depending on the normal approach of personnel

Text size

The text and directional flow arrow is the primary means of identifying pipe content. A13.1-2007 standard makes recommendations as to the size of letter height and length of color field for various pipe diameters.



Outside Diameter	Length of Color Field	Size of Letters
Over 10 in.	32 in.	3.5 in.
8 in. to 10 in.	24 in.	2.5 in.
2.5 in. to 6 in.	12 in.	1.25 in.
1.5 in. to 2 in.	8 in.	0.75 in.
0.75 in. to 1.25 in.	5 in.	0.5 in.
less than 0.75 in.	Permanently legible tag recommended	

Color standards

Pipe marker colors communicate the type of contents, and are particularly important when outside agencies are called in under emergency conditions.

Pipe Classification	Color Scheme
Fire quenching fluids	White on Red
Toxic and corrosive fluids	Black on Orange
Flammable fluids	Black on Yellow
Combustible fluids	White on Brown
Potable, cooling, boiler feed and other water	White on Green
Compressed air	White on Blue

Custom colors available including gray, black, purple and clear.

Self-Sticking	Mechanically Applied				
					
B-946 Self-Sticking Marker	B-736 Self-Sticking Markers-To-Go	B-915 Snap-On Marker	B-915 Strap-On Marker	B-689 Wrap-Around Marker	B-681 / B-883 High-Performance High-Visibility Marker

Overview						
Marker Type	Premium self-adhesive marker for indoor or outdoor use in either individual markers or roll-form.	Economical self-adhesive roll-form markers for smooth, clean, dry pipe surfaces.	Non-adhesive coiled pipe marker "snaps" around pipe giving 360 visibility while remaining easily removeable	Non-adhesive vinyl marker applied with nylon strapping (included).	Wrap-around marker with an adhesive edge to secure marker. Repeating legends offers 360 visibility.	Polyester marker applied to a fiberglass carrier. Markers fasten to pipe with with included mounting clips and strapping (sold separately).
Marker Material	Vinyl	Plastic Film	Vinyl	Vinyl	Polyester	Plastic Carrier
Installation Type	Adhesive	Adhesive	Snap-on	Nylon Strapping	Wrap-around with adhesive edge	Mounting clips (included) & strapping (sold separately)
Outer Diameter	From less than 0.75 in. to greater than 8 in.	—	0.75 in. to 6 in.	6 in. to 15 in.	0.2 in. to 7.875 in.	8 in. or larger
Environment						
Indoor	✓	✓	✓	✓	✓	✓
Average Outdoor Durability	3 to 5 years	2 to 3 years	5 to 8 years	5 to 8 years	5 to 8 years	5 to 8 years
Surface Abrasion Resistance	✗	✗	✗	✗	✓	✓
Dirty, Dusty Surface	✗	✗	✓	✓	✓	✓
Rough Surface	✓	✗	✓	✓	✓	✓
Insulated Surface	✓	✓	✓	✓	✓	✓
Wet Surface	✗	✗	✓	✓	✓	✓
Greasy, Oily Surface	✗	✗	✓	✓	✓	✓
Chemical Resistance						
Organic Solvents (MEK, Acetone, Toluene)	✗	✗	✗	✗	✗	✗
Acids (Sulfuric, HCL, Acetic)	✗	✓	✗	✗	✓	✓
Alkalis (Sodium Hydroxide)	✗	✗	✗	✗	✓	✓
Alcohols (Methanol, Isopropanol)	✓	✓	✓	✓	✓	✓
Grease/Oils (SAE 20, ASTM #3)	✓	✓	✓	✓	✓	✓
Temperature						
Minimum Installation Temperature	0° F (-18° C)	50° F (0° C)	—	—	40° F (5° C)	—
Service Temperature	-40° F to 180° F (-40° C to 82° C)	-40° F to 212° F (-40° C to 100° C)	-40° F to 180° F (-40° C to 82° C)	-40° F to 180° F (-40° C to 82° C)	-40° F to 248° F (-40° C to 120° C)	-40° F to 230° F (-40° C to 110° C)
Special Properties						
Low PVC - Pipe contact point	✗	✗	✗	✗	✓	✓
Low PVC - Whole marker	✗	✗	✗	✗	✗	✓
Low Halogen - Pipe contact point	✗	✗	✗	✗	✓	✓
Low Halogen - Whole marker	✗	✗	✗	✗	✗	✓
Meets ASME (ANSI) A13.1	✓	✓	✓	✓	✓	✓



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