



CUSTOMIZED PIPE MARKERS

REGULATORY COMPLIANCE.
FULLY CUSTOMIZABLE.
HIGH PERFORMANCE.



IMPORTANCE OF PIPE MARKERS



Brady's high performance and customizable pipe markers allow you to easily identify pipe contents and flow direction that keeps your facilities safe and compliant. Pipe markers are suited for various industries such as marine, chemical, oil & gas, food & beverage, manufacturing and more.

A good pipe identification program provides many advantages:

- Aids in quick identification of pipes' contents, especially during emergency
- Facilitate traceability and eliminate errors, saving time and money
- Lower accidents rates and enhance safety in the facilities
- Reduce maintenance and repair downtime
- Compliance to industry standards

Brady Pipemarkers meet all 7 International Industry Standards

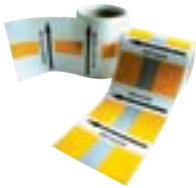
- **ASME A13.1-2007**
Specification of pipe contents and their hazards
- **Health & Safety Signs Regulation (1.4.96)**
Full identification of pipes transporting dangerous and hazardous substances required
- **ISO 14726**
Specifies principle colours for identification of substances in pipes (commonly referred to as Marine pipe identification in ship & offshore sites)
- **ISO (DIS) 14726-2**
Specifies additional colour codes for more detailed identification of substances
- **AS 1345-1995**
Addresses elements of design and specifies location of markers and adjacent distances
- **OSHA - 29 CFR 1910.261 (a)(3)(ii)**
Scheme for the Identification of Piping Systems, A13.1 - 1956
- **IIAR (International Institute of Ammonia Refrigeration)**
Guidelines for Identification of Ammonia Refrigeration Piping and System Components



GUIDELINES

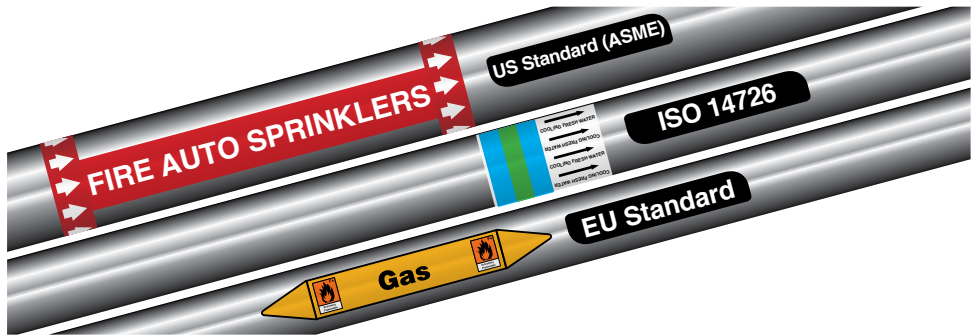


Pipe Marker Examples



The guidelines for pipe marking are based on 4 main areas - format of the standard used, color schemes based on pipe application, text height based on the required pipe size and visibility based on the infrastructure. These guidelines are based on industry specifics and its country specification where they are applied. The guidelines will help to ensure proper deployment of the markings for your infrastructure when correctly applied.

Pipe Markers Formats



Pipe Marker Color Recommendation

Guidelines taken from ASME (ANSI) Standard A13.1 - 2007

CLASSIFICATION	EXAMPLE	COLOUR SCHEME
Potable, Cooling, Boiler Feed & Other Waters	WASTE WATER	WHITE ON GREEN
Flammable Fluids	GAS	BLACK ON YELLOW
Compressed Air	AIR 100 PSI	WHITE ON BLUE
Fire-quenching Fluids	HALON	WHITE ON RED
Toxic/Corrosive Fluids	HCL	BLACK ON ORANGE
Combustion Fluids	VAPOR	WHITE ON BROWN
Acids & Alkalis	DEFINED BY USER	WHITE ON PURPLE
Non-Flammable Gas		WHITE ON GRAY
Air Ventilation System		BLACK ON WHITE
Waste Media		WHITE ON BLACK

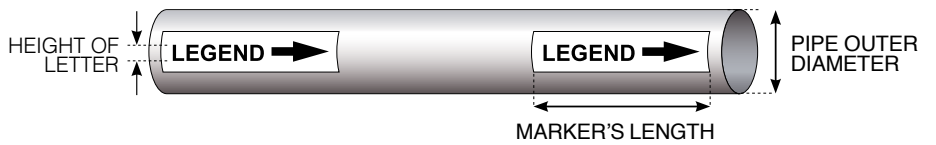
See Page 4 for the Standard and Non-Standard colors Brady offers.

GUIDELINES



Text Height

Text height and marker's length recommendation with reference to outer diameter of pipe (ASME)

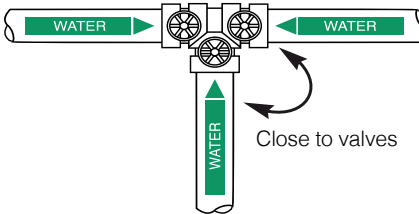


Pipe Outer Diameter		Height of Letter		Marker's Length	
Inch	mm	Inch	mm	Inch	mm
0.75 - 1.25	19 - 32	0.5	13	8	200
1.5 - 2	38 - 51	0.75	19	8	200
2.5 - 6	64 - 150	1.25	32	12	300
8 - 10	200 - 250	2.5	64	24	600
> 10	> 250	3.5	89	32	800

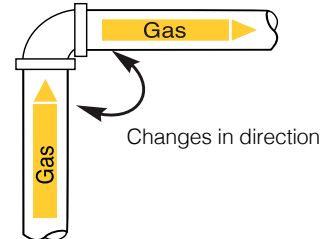
Visibility of Pipemarkers based on Piping Flow Direction

Pipes should be identified using pipe markers in the following cases, with arrows indicating the direction of flow.

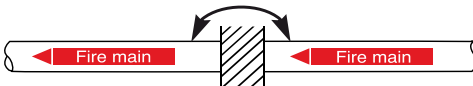
Case 1: Pipes should be marked adjacent to all valves and flanges



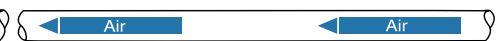
Case 2: Pipes should be marked adjacent to change in directions



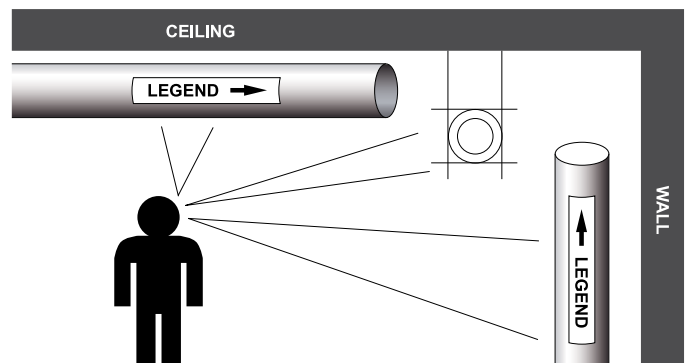
Case 3: Pipes should be marked at both sides of the floor or wall penetrations



Case 4: Pipes should be marked every 25' to 50' interval on straight runs



Case 5: Pipe markers should be located in positions such that they are readily visible to personnel in the facility from the point of normal approach



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Brady Total Solution

Brady offers a total solution in pipe marking to assist you in meeting your pipe marker needs.

Based on a drawing takeoff or a plant walkthrough, Brady can function independently or serve as an extension of your operations. Simply provide us with a copy of the plan viewing drawings, the pipe identification specifications and the insulation schedule. You will receive a comprehensive list of identification products and materials needed.

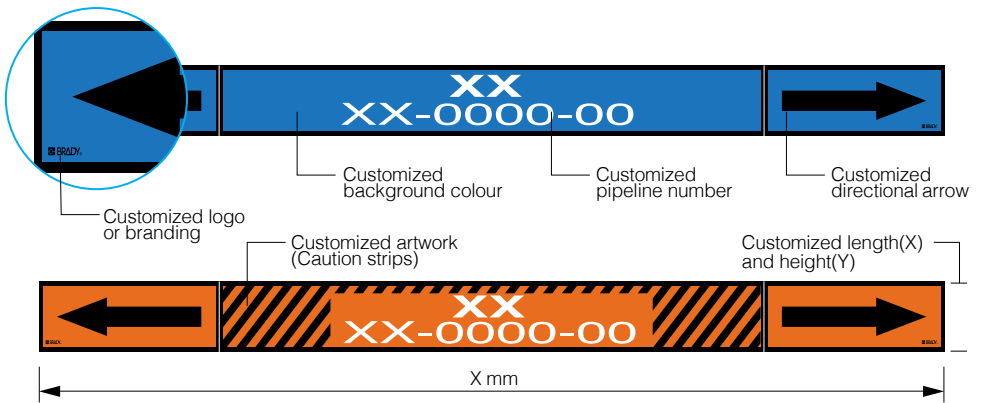
Contact your friendly Brady staff at **(65) 6477 7261** or email us at **ContactUs_SA@bradycorp.com** to arrange for your free consultative service today.



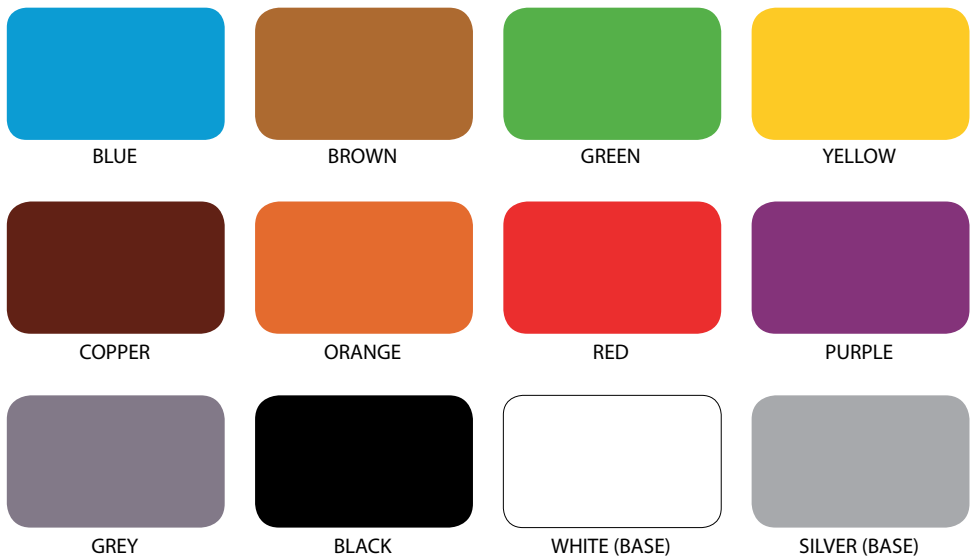
Brady's high performance, customizable polyester (PET) pipe markers solution are suited for board application. They are fully customizable for multi-coloured, format and inkjet printing to meet your requirements and ensure compliance to international industry standards. Starting with our peerless engineering, through exacting R&D and high quality material, Brady provides our clients with a complete, reliable and cost effective pipe marking system.

Customizable Fields

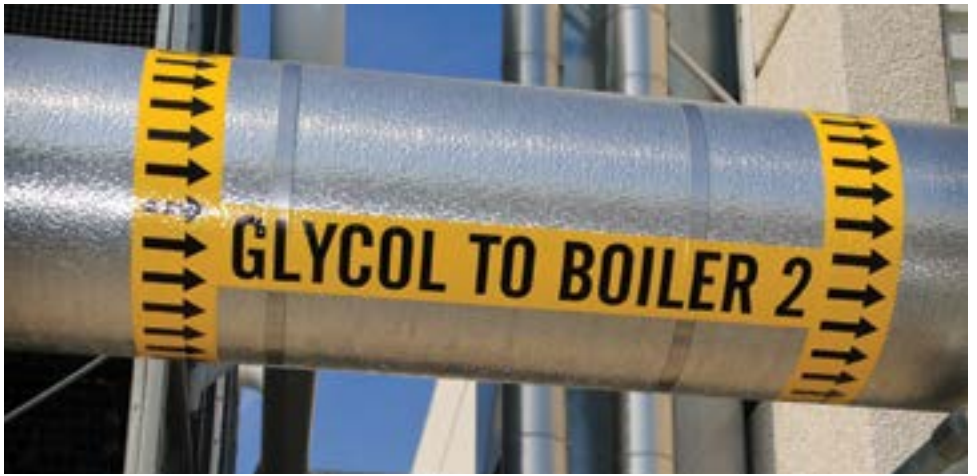
Here are some examples of how Brady can help you customize your pipe markers.



Brady's Range of Standard/Non-Standard Colors



PIPE MARKERS TESTING



Brady offers you quality pipe markers

Our pipe markers are tested as a complete product whereas our competitors do not. All materials used in our production of pipe-markers are put through rigorous performance and durability tests to ensure the quality we promised. Our team of highly trained specialist will be able to assist you in your marking deployment needs.

Durability Testing

Durability of our pipe markers are tested in a simulated outdoor environment with UV and humidity testing.



UV test



Humidity test

Performance Testing

Performance of our pipe markers are tested under high temperature.



Test temperature for wrap-around



Test temperature for self-adhesive

Chemical Resistance Testing

Resistance against solvents such as salt, acid and base are tested.



Salt Water



Acid



Base

INSTALLATION GUIDE



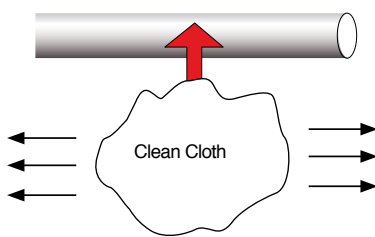
Wrap Around Pipe Markers

Factory applied industrial grade adhesives makes pipe marker installation easy. Simply peel the release coated paper backing from the marker and press the marker in place.

- Markers meet the requirements of ASME (ANSI) A13.1 Standard for identification of piping system contents when used with Directional Flow Arrow Tape
- Using pressure sensitive acrylic adhesive for easy handling and installation

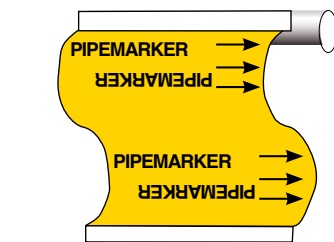


Installation Guide



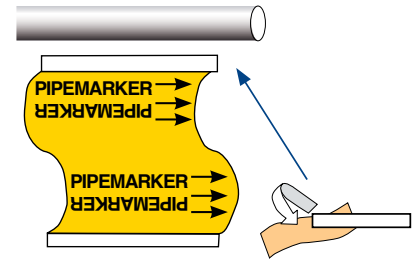
Step 1:

- Ensure that the targeted pipe surface are clean from rust and un-dry paint
- Use a clean piece of cloth to wipe clean all foreign dirt, particles that can come in between the pipemarker and pipe



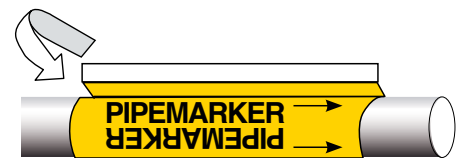
Step 3:

- Place the pipemarker with the adhesive tape flatly on the pipe
- Ensure that adhesive is securely pasted onto pipe



Step 2:

- Adjust to desire position
- Remove the liner from the top adhesive tape



Step 4:

- Coil the marker around the pipe
- Remove liner from trailing adhesive tape and paste the tape onto the surface of the marker

CONTACT US

Brady's global presence makes it easy for you to do business with us wherever you are. To find out more about Brady and our products, please visit us at www.bradyid.com.sg or email us at ContactUs_SA@bradycorp.com.

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