

# Pipe Markers – What You Need To Know

**The Proper Marking of Contents and Flow Direction in Pipes and Piping Systems is a Vital Component of a Thorough Safety and Identification Program.**

Pipe markers are quick visual cues, providing immediate identification information of pipe contents for emergency responders and workers to safely carry out their responsibilities when working in and around piping systems.

Pipe Markers provide visible information to communicate the start, run, and end of contents in piping systems. A comprehensive and standardized labeling program – when installed properly provides an awareness of hazards in piping systems, thus, promoting a safe working environment. Minimizing the potential for downtime due to unknown pipe contents that may lead to an error or accident.

The legend or wording on the pipe marker is to be the primary means of naming the contents of the pipe. The name is to be brief, yet complete or in understood abbreviated format. Arrows are to accompany the legend to indicate the directional flow of the contents. Additional information may be necessary to identify the content details such as pressure and temperature.

**Installation recommendations:**

- Above or below center visual line of pipe
- Frequent intervals on straight pipe runs (visible from any point along the length)
- Close to valves
- Near branches and T's in piping
- Any change in direction of piping
- Near points before and after pipe going through walls, ceilings, and floors



A13.1 – 2007 Scheme for the Identification of Piping Systems  
 ...a uniform system for the identification of piping contents has been established to warn personnel when the piping contents are inherently hazardous ...this standard has been prepared to specify the identification of the contents of piping systems on the basis of legends, it also suggests the use of color as a supplementary means of identifying the type of hazard of the material contained in the system.

Pipe markers are designed to meet or exceed ASME (ANSI) A13.1-2007 recommendations for size, color and visibility.



29 CFR 1910.253 Oxygen-fuel gas welding and cutting (d)(4)(ii)  
 Aboveground piping systems shall be marked in accordance with the American National Standard Scheme for the Identification of Piping Systems, ANSI A13.1

§ 1910.261 Pulp, paper, and paperboard mills (a)(3) General  
 incorporation of standards. Establishments subject to this section shall comply with the following standards:

1910.261(a)(3)(ii) Scheme for the Identification of Piping Systems, A13.1

§ 1910.262 Textiles

1910.262(c)(7) Identification of piping systems. Identification of piping systems shall conform to American National Standard A13.1

## Pipe Marker Size & Letter Height

The outside diameter of the pipe determines the letter height and background field length of the marker.

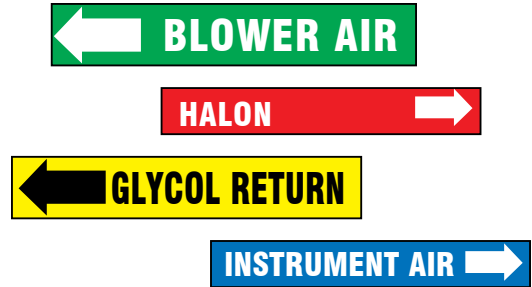
Outside Diameter of Pipe	Length of Pipe Marker Color Field	Size of Letters
3/4" To 1 1/4"	8 inches	1/2"
1 1/2" To 2"	8 inches	3/4"
2 1/2" To 6"	12 inches	1 1/4"
8" To 10"	24 inches	2 1/2"
Over 10" *	32 inches	3 1/2"

\*Available as Custom Pipe Markers, See Page 720.

For pipes smaller than 3/4" in diameter, and for valve and fitting identification, see page 722.

## Legend

The legend on the marker gives the name of the contents in full or abbreviated form. Arrows should be used to indicate direction of flow.



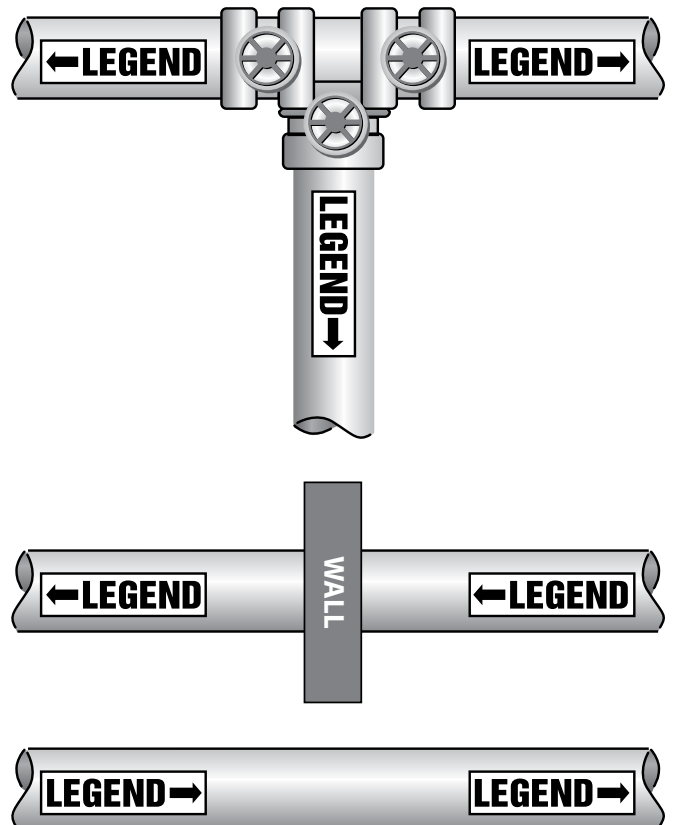
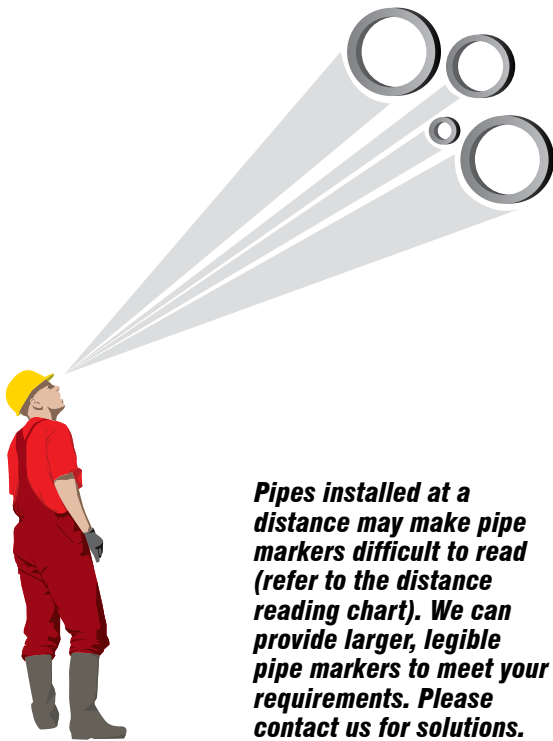
## Color

Colors identify the characteristic hazards of the contents of the piping system.

CONTENTS OF THE PIPE	COLOR
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

## Visibility & Location

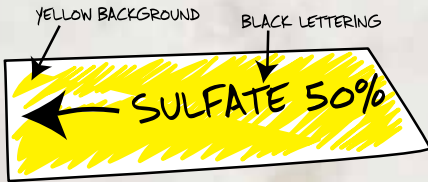
Where pipe lines are located high or low, place the lettering below or above the horizontal centerline of the pipe. Affix markers onto piping close to valves or flanges and adjacent to changes in direction, branches, and where pipes pass through walls or floors; and at 25' to 50' intervals on long straight pipe runs.



# Custom Pipe Markers Made Simple & Fast!

## How to Order Custom Pipe Markers

- Legend**  
Specify your desired marker legend. Be sure to include any directional flow arrows, if they apply.
- Any Color Combination**  
To identify the hazard level of the pipe contents, we can give you the rainbow's choice, or ASME standard colors. Any color you want!
- Pipe Outside Diameter**  
Identify the pipe outside diameter, (O.D.), including insulation. This information is important in providing you with a useful product.
- Material Style**  
Determine, from the varied choices on the next pages, which marker style fits your application needs.
- Quantity**  
There is no set up cost or minimum. We can make one marker or many... Just tell us how many you need.



ASME Colors



## Send Us Your Order

Write or sketch out your marker. It doesn't have to be exact. Call, fax or e-mail us your order request. We put together your specifications, and send you a proof (upon request), just to make sure you get what you need.

**We'll get right back to you with a quotation and delivery time.**

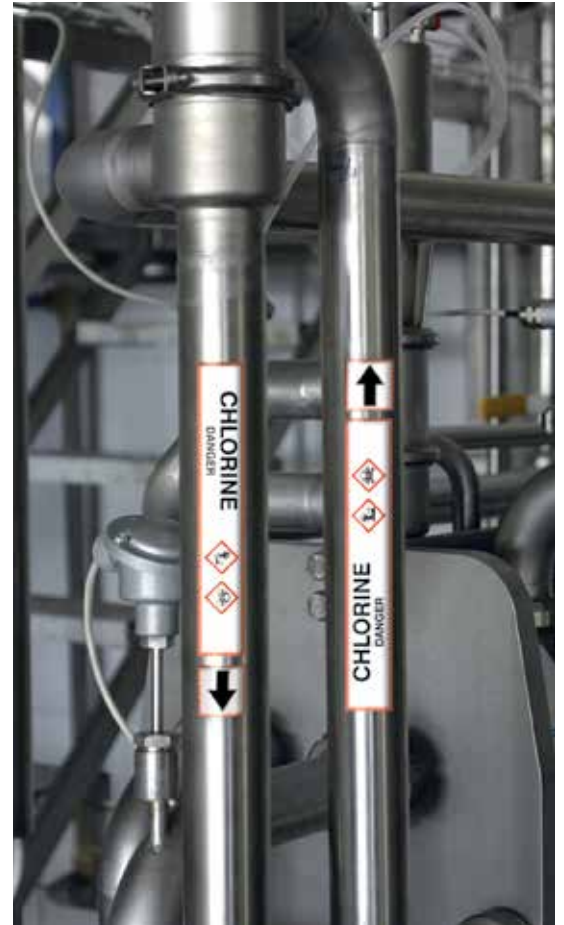
## Material Chart

PRODUCT	SURFACE	MATERIAL	TEMPERATURE RANGE	MAXIMUM REC. SIZE	UV RESISTANCE	CHEMICAL RESISTANCE	ABRASION RESISTANCE
Self Stick Poly-Vinyl	Gloss	Vinyl-Polyester	-20° to 176°F	4 1/2" x 32"	Yes	Good	Good
Cling-Tite	Gloss	Polyester	-40° to 302°F	25" x 12"	Yes	Excellent	Excellent
Snap Tite™	Matte	Vinyl	-4° to 158°F	25" x 12"	No	Good	Fair
Band-Strap Plastic	Gloss	Polycarbonate	-50° to 190°F	4 1/2" x 32"	Yes	Excellent	Excellent
Big Wrap™	Matte	Reinforced Poly Sheet	-40° to 176°F	168" x 36"	No	Good	Good
Reflective	Gloss	Microprismatic Polyester	-30° to 200°F	4 1/2" x 32"	Yes	Excellent	Excellent
Snap Tite™ Stencil	Matte	Polyethylene	-90° to 168°F	17" x 39"	Yes	Good	Good

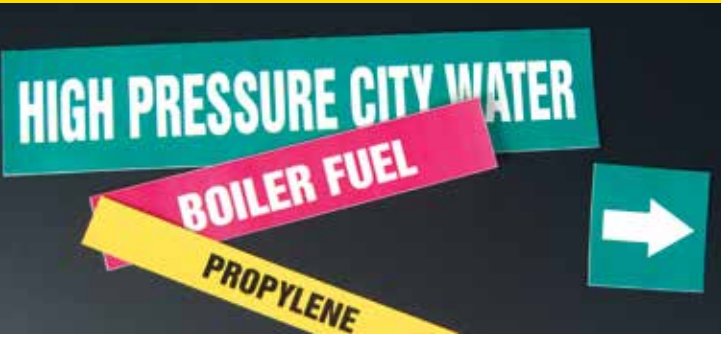
# PERSONALIZE IT!

## Custom Pipe Markers

Pipe Markers can be any size and shape with colors, coding and even graphic schemes. Create custom pipe markers specific to your facility and pipe marker content and flow identification system.



Mark pipe contents and flow directions of pipes throughout your facility to identify their specific functions and uses.



## Self Stick Vinyl

Self Stick Vinyl pipe marker displays one printed legend, with detachable arrow for proper directional flow marking. Has high-tack, acrylic adhesive back with peel off liner. Message is printed on 4-mil flexible vinyl and overlaminated with a 2-mil, UV resistant polyester film to withstand various environmental elements. Service temperature is -20° to 176°F. Recommend installing onto clean, smooth pipe surface.



*Directional Flow Arrow Included with Marker.*

Price per Each

Fit Pipe Diameter	Marker Size	No.	1	2 - 5	6 - 9	10 - 24	25 - 49	50 - 99	100+
3/4" to 1 1/4"	1" x 8"	RPS961	\$26.68	15.11	9.05	4.91	1.99	1.28	0.91
1 1/2" to 2"	1 1/2" x 8"	RPS963	28.08	15.88	9.54	5.17	2.14	1.34	0.99
2 1/2" to 6"	2 1/2" x 12"	RPS965	28.57	16.45	10.05	5.74	2.68	1.59	1.31
8" to 10"	4" x 24"	RPS967	30.68	18.80	12.42	8.11	4.99	3.59	3.28
over 10"	4 1/2" x 32"	RPS969	33.80	22.28	15.88	11.59	8.51	6.51	6.20
other size		RPS955	call for quote						



## Cling-Tite Pipe Markers

**Apply, remove, apply again.** Cling-Tite markers hold securely to pipes but are easy to remove and re-apply.

360° wrap around pipe markers are easy to see from all angles and won't break down under harsh conditions. Legends are printed on the underside of chemical-resistant, 7-mil polyester and further protected by a 2-mil polyester backing. Scratches, abrasions, and chemical splashes do not affect the sub-surface printed legend. Dirt, dust, and liquids wipe off the cleanable, glossy surface.

Flexible marker installs quickly, and is designed to wrap completely around the pipe. A heavy duty vinyl strip along the top leading edge provides a tight cling seal to securely fasten the marker in place. Marker legends are printed upright and upside-down making them viewable from any direction along with directional arrows.

Ideal for use on higher temperature pipes with range of -40° to 302°F. Ships & stores flat. Installs easily like a Snap Tite™. Available up to 30" wide.

Price per Each

Fit Pipe Diameter	Marker Size	No.	1	2 - 5	6 - 9	10 - 24	25 - 49	50 - 99	100+
up to 1/4"	2" x 4"	RPA920	\$23.57	14.54	9.68	6.34	4.40	3.05	2.82
up to 1/2"	4" x 6"	RPA922	26.16	16.11	10.74	7.08	4.51	3.40	3.14
3/4" to 1 1/4"	6" x 8"	RPA924	29.10	18.04	11.94	7.85	4.96	3.79	3.54
1 1/2" to 2"	9" x 8"	RPA926	30.31	19.28	13.33	9.20	6.34	4.96	4.70
2 1/4" to 3"	14" x 12"	RPA928	33.93	23.30	17.31	13.24	10.36	8.19	7.91
3 1/4" to 5"	19" x 12"	RPA940+	50.99	35.05	26.08	19.94	12.27	11.24	10.20
5 1/4" to 6"	25" x 12"	RPA942+	54.11	38.54	29.57	23.42	14.16	13.02	11.85

+ comes with self-adhesive leading edge.

## Snap Tite™

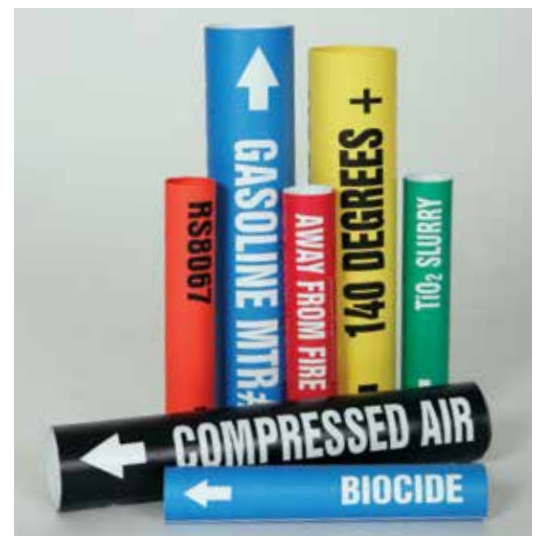
Pre-coiled design 'SNAPS' around to fit 360° over the pipe. The 20-mil Rigid Vinyl is printed repeatedly with the legend and directional flow arrow, upright and upside-down, around the marker, for universal direction fit and visibility from various angles. The service temperature range is -4° to 158°F. Ideal for use when removal may be necessary and on pipes that are insulated, unpainted, or less than perfect condition, since uneven and dirty surfaces do not affect the snap fit. Maximum size: 25" x 12".

**Not recommended for hot pipes.**

Price per Each

Fit Pipe Diameter	Marker Size	No.	1	2 - 5	6 - 9	10 - 24	25 - 49	50 - 99	100+
up to 1/4"	2" x 4"	RPT920	\$28.25	17.39	11.57	7.65	5.25	3.68	3.39
up to 1/2"	4" x 6"	RPT922	31.37	19.34	12.91	8.51	5.37	4.08	3.77
3/4" to 1 1/4"	6" x 8"	RPT924	34.88	21.51	14.31	9.42	5.96	4.54	4.20
1 1/2" to 2"	9" x 8"	RPT926	36.34	23.11	15.94	11.05	7.65	5.96	5.62
2 1/4" to 3"	14" x 12"	RPT928	40.71	27.96	20.77	15.88	12.42	9.85	9.48
3 1/4" to 5"	19" x 12"	RPT940+	61.11	42.08	31.28	23.91	14.68	13.45	12.20
5 1/4" to 6"	25" x 12"	RPT942+	64.88	46.19	35.40	28.08	16.99	15.65	14.20

+ comes with self-adhesive leading edge.





## Snap Tite™ Stencil

Stenciling pipes has never been easier.

Snap Tite™ Stencils can be used over and over again to paint on the identity of pipe contents. The unique pre-coiled shape is designed to make stenciling a one person job; it also eliminates the need for taping or strapping the stencil in place. Uncurl stencil over the pipe and release it to snap into place, now you are ready to paint the message directly onto the pipe. Each stencil comes with cut out arrows on both ends, simply block out the arrow you will not be using to mark your pipes with content and proper flow direction.

Custom legends are available in two sizes to meet ASME A13.1 letter height requirements

Price per Each						
For Pipe OD Size	Overall Stencil Size	Message Size width	Letter height	Max Letters* Per Stencil	No.	Price
4 1/2" – 6 1/2"	15" x 25"	16"	1 1/4"	15	RST104	\$67.45
8" – 10"	17" x 39"	23"	2 1/2"	11	RST105	84.42
other size					RST155	call for quote

\*including spaces



## OSHA-Color Spray Paints

Spray on safety hazard colors.

Paints meet the color standards set forth by OSHA. These recognizable colors help alert workers of safety and hazardous situations. Coat curved surfaces and hard to reach places. Paints contain high solids for maximum coverage with fast drying times. Specially formulated for industrial maintenance, paints are ideal for tough environments - indoors and outdoors - for long-lasting appearance. Available each in 16-oz. (12-oz. wt.) cans.

To order, add color code after part number:  
Red - RD, Orange - OR, Yellow - YL, Blue - BU,  
Green - GN, Purple - PR

No.	Price / Each
PMC816	\$9.51

## Band-Strap Plastic

Sub-surface printed Polycarbonate pipe marker has a clear, easy to read legend with a bold glossy finish. Surface is thick rigid Polycarbonate that withstands environmental elements and corrosive atmospheres. The single legend and directional flow arrow is printed on the underside of .040" Polycarbonate, and further covered by 2-mil polyester laminate film. Service temperature is -50° to 190°F. Strap on the marker to the pipe using fastener ties or cables routed through punched mounting slots.



Price per Each									
Fit Pipe Diameter	Marker Size	No.	1	2 - 5	6 - 9	10 - 24	25 - 49	50 - 99	100+
2 1/2" to 6"	2 1/2" x 12"	LXM212	\$42.89	26.41	18.61	13.37	9.77	7.53	7.18
8" to 10"	4" x 24"	LXM324	46.08	32.71	24.97	19.71	16.36	12.94	12.59
over 10"	4 1/2" x 32"	LXM432	48.96	36.19	28.60	23.45	19.85	16.19	15.85
other size		LXM555	call for quote						

For Band Strap Fasteners, See Page 737.

## Big Wrap™ Pipe Marker

Identify and mark contents in Big Pipes the Biggest Way.

Big Wrap™ Pipe Markers are designed to surround 360° over some of the largest pipes available. The 3 1/2"H letters for legend and directional flow arrows are repeated upright and upside-down, around the whole marker for universal direction fit and visibility from various angles. The reinforced poly-sheeting has good strength and durability. Service temperature is -40° to 176°F. Pipe marker can be easily removed for painting and fit onto pipes that have uneven, dirty surfaces, or insulation.

To install, an aluminum bar is inserted into one end, wrap pipe marker around pipe, and firmly secure with clamps onto the bar end. Hardware is included.

Available in ASME – Specific color combinations.



### Secure Clamp

Included with Marker.

Replacement Item	No.	Price / Each
Metal Insert Bar - 36"	HFC136	\$17.02
Secure Clamp	HFC139	6.51

#### Price per Each

Fit Pipe Diameter	Marker Size	No.	1	2 - 5	6 - 9	10 - 24	25 +
12" - 16"	56" x 36"	PMW120	\$104.08	90.93	80.65	73.68	68.68
17" - 24"	84" x 36"	PMW170	133.91	124.03	113.77	106.76	101.78
25" - 36"	124" x 36"	PMW250	222.97	200.20	181.36	168.50	148.91
37" - 48"	168" x 36"	PMW370	308.02	276.42	248.94	230.30	217.08

## Reflective Self Stick

In blackout or low light, reflectivity identifies pipes for shut down.

Reflective Self Stick Pipe Markers provide visibility during power outage and low light conditions. Pipes that require shut down can be quickly spotted. Marker displays one printed legend, with arrow for proper directional flow marking. High-tack, acrylic adhesive back and peel-off liner. 7-mil flexible adhesive sheet, overlaminated with 2-mil, UV resistant polyester film to withstand various environmental elements. Service temperature is -30° to 200°F. Recommend installing onto clean, smooth pipe surface.



#### Price per Each

Fit Pipe Diameter	Marker Size	No.	1	2 - 5	6 - 9	10 - 24	25 - 49	50 - 99	100 +
3/4" to 1 1/4"	1" x 8"	RPV961	\$33.39	20.45	10.16	5.91	3.08	2.14	1.22
1 1/2" to 2"	1 1/2" x 8"	RPV963	34.25	20.56	11.79	7.42	4.31	3.39	2.79
2 1/2" to 6"	2 1/2" x 12"	RPV965	35.14	20.68	13.68	9.31	6.17	4.74	4.42
8" to 10"	4" x 24"	RPV967	38.59	27.39	20.91	16.51	13.45	10.88	10.51
over 10"	4 1/2" x 32"	RPV969	41.74	30.88	24.39	19.97	16.94	13.79	13.48
Other size		RPV955	call for quote						

# Custom GHS Pipe Markers

Create your own pipe markers with GHS pictograms and chemical name.

Available in Self Stick Vinyl with detachable arrow for proper directional flow marking. Message is printed on 4-mil flexible vinyl and overlaminated with a 2-mil, UV-resistant polyester film. Has high-tack, acrylic adhesive back with peel-off liner. Service temperature is -20° to 176°F. Install on clean, smooth pipe surface.



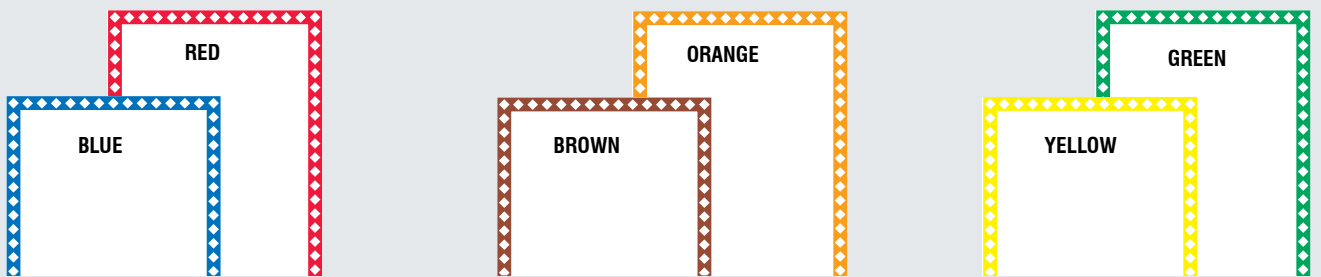
Chemical name and GHS signal word (Danger or Warning) here.

Indicate border color.

Specify GHS pictogram(s) to indicate the chemical hazards.

Detachable arrow (optional) should be used to indicate direction of flow.

## Border Colors



Note: You are required to provide all necessary information, specific to your hazardous chemical or material, to complete an accurate and safe pipe marker for your premises.

## How to Order Pipe Markers:

- Select part number by marker size
- Provide pipe marker legend (chemical name)
- Specify which GHS pictogram(s) to include on art
- Indicate border color

### Price per Each

Fit Pipe Diameter	Marker Size	No.	1	2 - 5	6 - 9	10 - 24	25+
3/4" to 1 1/4"	1" x 8"	RGS241	\$26.68	15.11	9.05	4.91	1.99
1 1/2" to 2"	1 1/2" x 8"	RGS243	28.08	15.88	9.54	5.17	2.14
2 1/2" to 6"	2 1/2" x 12"	RGS245	28.57	16.45	10.05	5.74	2.68
8" to 10"	4" x 24"	RGS247	30.68	18.80	12.42	8.11	4.99
over 10"	4 1/2" x 32"	RGS249	33.80	22.28	15.88	11.59	8.51
other size		RGS255	call for quote				



# Stock Pipe Markers

Mark contents and flow direction in pipes and piping systems with ready to go stock pipe markers.

A long list of chemicals and standard marking applications are offered in the stock selection. Pipe markers are available in size ranges and three main choices of pipe marking materials meet the needs of varied applications in industry.

The visible colors and bold lettering on the pipe makers are designed to meet or exceed ASME (ANSI) A13.1-2007 recommendations for size, color and visibility. Identify the contents in piping system throughout your facility with a comprehensive and standardized marking program.



## Choose The Right Stock Material

Select a material based upon your specific application to ensure that your pipe markers will last.



\*Directional Flow Arrow Tape Rolls are available (sold separately) to increase the visibility by banding around the pipe and hold the marker in place.

### Self Stick Vinyl Pipe Markers

Self Stick Vinyl pipe marker displays one printed legend with detachable arrow for proper directional flow marking.

#### Material Features

- 4-mil flexible adhesive-backed vinyl with 2-mil, UV-resistant polyester overlaminate
- Detachable arrow\* included
- High-tack, acrylic adhesive back applies to a smooth, clean pipe surface
- Simply peel off the liner, align and press firmly into place for permanent application

#### Applications

- Service temperature range: -20° to 176°F
- Withstands various environmental elements

Stand-Off Plates available to apply labels indirectly on pipes. See page 737.

For Pipe OD Size	Marker Size (h x w)	Letter Height	Arrow Marker Size	Marker Code
3/4" to 1 1/4"	1" x 8"	1/2"	1" x 1"	SSA
1 1/2" to 2"	1 1/2" x 8"	3/4"	1 1/2" x 1 1/2"	SSB
2 1/2" to 6"	2 1/2" x 12"	1 1/4"	2 1/2" x 2 1/2"	SSD
8" to 10"	4" x 24"	2 1/2"	4" x 4"	SSH



## Cling-Tite Pipe Markers

Cling-Tite pipe markers wrap completely around the pipe and include a heavy-duty vinyl strip along the top leading edge that clings tightly to fasten the marker in place.

### Material Features

- 7-mil polyester with a 2-mil polyester backing
- Subsurface printed legend with cleanable, glossy surface
- Legends are printed upright and upside-down– viewable from any direction – with directional arrows
- 360° wraparound pipe markers are easy to see from all angles
- Removable and reusable
- Ships and stores flat

### Applications

- Service temperature range: -40° to 302°F for higher temperature pipes
- Resistant to scratches, abrasions and chemical splash
- Extremely durable for tough environments

For Pipe OD Size	Marker Size (h x w)	Letter Height	Marker Code
3/4" to 1 1/4"	6" x 8"	1/2"	CTA
1 1/2" to 2"	9" x 8"	3/4"	CTB
2 1/4" to 3"	14" x 12"	1 1/4"	CTC
3 1/4" to 5"	19" x 12" *	1 1/4"	CTE
5 1/4" to 6"	25" x 12" *	1 1/4"	CTF



## Snap Tite™ Pipe Markers

Snap Tite™ pipe markers come pre-coiled and easily install by uncurling, placing on the pipe, releasing and “snapping” into place, encircling the entire pipe.

### Material Features

- Heavy gauge 20-mil Rigid Vinyl plastic is lightweight, yet durable
- Legends are printed upright and upside-down– viewable from any direction – with directional arrows
- 360° wraparound pipe markers are easy to see from all angles
- No need to clean off the pipes to install – Snap Tite™ fits over pipes with dirty, greasy, or rough surfaces – even over insulation or other less than perfect surfaces
- Removable and reusable

### Applications

- Service temperature range: -4° to 158°F
- Dirty, greasy and rough environments
- Tough industrial environments

For Pipe OD Size	Marker Size (h x w)	Letter Height	Marker Code
3/4" to 1 1/4"	6" x 8"	1/2"	STA
1 1/2" to 2"	9" x 8"	3/4"	STB
2 1/4" to 3"	14" x 12"	1 1/4"	STC
3 1/4" to 5"	19" x 12" *	1 1/4"	STE
5 1/4" to 6"	25" x 12" *	1 1/4"	STF

\*Has self-adhesive leading edge for a secure fit.

Not recommended for hot pipes.

LEGEND	NO.
ACETONE	RPK101
ACETYLENE GAS	RPK103
ACETYLENE GAS	RPK105
ACID	RPK107
ACID	RPK109
ACID VENT	RPK111
ACID VENT	RPK113
ACID WASTE	RPK115
ACID WASTE	RPK117
AIR	RPK119
AIR	RPK121
AIR	RPK123
AIR RETURN	RPK125
AIR SUPPLY	RPK127
ALCOHOL	RPK129
ALUM	RPK131
ALUM	RPK133
AMMONIA	RPK135
AMMONIA	RPK137
ARGON	RPK139
ARGON	RPK141
ARGON	RPK142
ARGON	RPK143
ASBESTOS FREE	RPK145
ASBESTOS FREE INSULATION	RPK147
ASBESTOS INSULATION	RPK149
BACKWASH	RPK151
BLOWER AIR	RPK153
BOILER BLOW DOWN	RPK157
BOILER BLOW DOWN	RPK159
BOILER DRAIN	RPK161
BOILER DRAIN	RPK163
BOILER FEED	RPK165
BOILER FEED	RPK167
BOILER FEED WATER	RPK169
BOILER FEED WATER	RPK171
BOILER FEED WATER	RPK173
BREATHING AIR	RPK175
BRINE	RPK177
BRINE	RPK179
CARBON DIOXIDE	RPK181
CAUSTIC	RPK183
CAUSTIC	RPK185
CAUSTIC SODA	RPK187
CAUSTIC SODA	RPK189
CHEMICAL	RPK191
CHEMICAL	RPK193
CHEMICAL FEED	RPK195
CHEMICAL FEED	RPK197
CHILLED WATER	RPK199

LEGEND	NO.
CHILLED WATER RETURN	RPK201
CHILLED WATER SUPPLY	RPK203
CHLORINE	RPK205
CHLORINE	RPK207
CIRCULATING WATER	RPK209
CITY GAS	RPK211
CITY GAS	RPK213
CITY WATER	RPK215
COLD SUPPLY	RPK216
COLD WATER	RPK217
COLD WATER DRAIN	RPK219
COLD WATER RETURN	RPK221
COLD WATER SUPPLY	RPK223
COMPRESSED AIR	RPK225
COMPRESSED AIR	RPK226
COMPRESSED AIR	RPK227
CONDENSATE	RPK229
CONDENSATE	RPK231
CONDENSATE DRAIN	RPK233
CONDENSATE DRAIN	RPK234
CONDENSATE PUMP DISCHARGE	RPK235
CONDENSATE PUMP DISCHARGE	RPK236
CONDENSATE RETURN	RPK237
CONDENSATE SUPPLY	RPK239
CONDENSER WATER	RPK241
CONDENSER WATER RETURN	RPK243
CONDENSER WATER SUPPLY	RPK245
COOLING WATER	RPK247
COOLING WATER RETURN	RPK249
COOLING WATER SUPPLY	RPK251
DEIONIZED WATER	RPK253
DEIONIZED WATER SUPPLY	RPK257
DIESEL FUEL	RPK258
DIESEL OIL	RPK259
DIESEL WASTE OIL	RPK261
DIESEL WASTE OIL	RPK263
DISCHARGE	RPK265
DISTILLED WATER	RPK267
DOMESTIC	RPK269
DOMESTIC COLD WATER	RPK271
DOMESTIC COLD WATER RETURN	RPK273
DOMESTIC COLD WATER SUPPLY	RPK275
DOMESTIC HOT WATER	RPK277
DOMESTIC HOT WATER	RPK279
DOMESTIC HOT WATER RECIRCULATION	RPK281
DOMESTIC HOT WATER RECIRCULATION	RPK283
DOMESTIC HOT WATER RETURN	RPK285
DOMESTIC HOT WATER RETURN	RPK287
DOMESTIC HOT WATER SUPPLY	RPK289
DOMESTIC HOT WATER SUPPLY	RPK291

LEGEND	NO.
DRAIN	RPK293
DRAIN	RPK295
DRAIN WATER	RPK297
DRINKING WATER	RPK299
EFFLUENT	RPK301
ELECTRIC TRACED	RPK303
ELECTRIC TRACED	RPK305
EXHAUST	RPK307
EXHAUST PIPE	RPK308
EXHAUST AIR	RPK309
EXHAUST PIPE	RPK310
FEED	RPK311
FEED	RPK313
FILTERED WATER	RPK315
FILTRATE	RPK317
FIRE AUTO SPRINKLER	RPK319
FIRE MAIN	RPK321
FIRE PROTECTION WATER	RPK323
FIRE SPRINKLER	RPK324
FIRE SPRINKLER WATER	RPK325
FIRE WATER SYSTEM	RPK326
FREON	RPK327
FREON	RPK329
FRESH WATER	RPK331
FUEL GAS	RPK333
FUEL GAS	RPK335
FUEL OIL	RPK337
FUEL OIL RETURN	RPK339
FUEL OIL SUPPLY	RPK341
FUEL OIL VENT	RPK343
GAS	RPK345
GAS	RPK347
GAS	RPK349
GASOLINE	RPK351
GASOLINE	RPK353
GLYCOL	RPK357
GLYCOL	RPK359
GLYCOL	RPK361
GLYCOL RETURN	RPK363
GLYCOL RETURN	RPK365
GLYCOL RETURN	RPK367
GLYCOL SUPPLY	RPK369
GLYCOL SUPPLY	RPK371
GLYCOL SUPPLY	RPK373
HALON	RPK375
HEATING	RPK377
HEATING HOT WATER RETURN	RPK379
HEATING HOT WATER RETURN	RPK381
HEATING HOT WATER SUPPLY	RPK383
HEATING HOT WATER SUPPLY	RPK385

LEGEND	NO.
HEATING RETURN	RPK387
HEATING SUPPLY	RPK389
HEATING WATER RETURN	RPK391
HEATING WATER SUPPLY	RPK393
HEATING WATER SUPPLY	RPK395
HIGH PRESSURE AIR	RPK397
HIGH PRESSURE AIR	RPK399
HIGH PRESSURE CONDENSATE	RPK401
HIGH PRESSURE GAS	RPK403
HIGH PRESSURE GAS	RPK405
HIGH PRESSURE HOT WATER	RPK407
HIGH PRESSURE HOT WATER	RPK409
HIGH PRESSURE NITROGEN	RPK411
HIGH PRESSURE STEAM	RPK413
HIGH PRESSURE WATER	RPK415
HIGH PRESSURE WATER	RPK417
HIGH PRESSURE NATURAL GAS	RPK419
HOT	RPK421
HOT WATER	RPK423
HOT WATER	RPK425
HOT WATER RETURN	RPK427
HOT WATER RETURN	RPK429
HOT WATER SUPPLY	RPK431
HOT WATER SUPPLY	RPK433
HYDRAULIC FLUID	RPK435
HYDRAULIC FLUID	RPK437
HYDRAULIC LINE	RPK439
HYDRAULIC LINE	RPK441
HYDRAULIC OIL	RPK443
HYDRAULIC OIL	RPK445
HYDRAULIC SUPPLY	RPK447
HYDROCHLORIC ACID	RPK449
HYDROCHLORIC ACID	RPK451
HYDROGEN	RPK453
HYDROGEN	RPK457
HYDROGEN PEROXIDE	RPK459
HYDROGEN PEROXIDE	RPK461
INDUSTRIAL WATER	RPK463
INERT GAS	RPK465
INERT GAS	RPK467
INSTRUMENT AIR	RPK469
INSTRUMENT AIR	RPK471
KEROSENE	RPK473
LAB VACUUM	RPK475
LAB VENT	RPK477
LAB WASTE	RPK479
LIQUID NITROGEN	RPK481
LOW PRESSURE	RPK482
LOW PRESSURE AIR	RPK483
LOW PRESSURE CONDENSATE	RPK485

LEGEND	NO.
LOW PRESSURE GAS	RPK487
LOW PRESSURE GAS	RPK489
LOW PRESSURE NATURAL GAS	RPK491
LOW PRESSURE NATURAL GAS	RPK493
LOW PRESSURE NITROGEN	RPK495
LOW PRESSURE NITROGEN	RPK497
LOW PRESSURE STEAM	RPK499
LOW PRESSURE WATER	RPK501
LUBE OIL	RPK503
MAKE-UP WATER	RPK505
MEDICAL AIR	RPK507
MEDICAL VACUUM	RPK509
MEDIUM PRESSURE CONDENSATE	RPK511
MEDIUM PRESSURE STEAM	RPK513
MED-PRESSURE STEAM	RPK515
MILL AIR	RPK517
MILL WATER	RPK519
MIXED GAS	RPK521
NATURAL GAS	RPK523
NATURAL GAS	RPK525
NITRIC ACID	RPK527
NITRIC ACID	RPK529
NITROGEN	RPK531
NITROGEN	RPK533
NITROUS OXIDE	RPK535
NITROUS OXIDE	RPK537
NITROUS OXIDE	RPK539
NON-POTABLE WATER	RPK541
OIL	RPK543
OIL SUPPLY	RPK544
OUTSIDE AIR	RPK545
OVERFLOW	RPK547
OXYGEN	RPK549
OXYGEN	RPK551
OXYGEN	RPK553
OXYGEN	RPK557
PEROXIDE	RPK559
PEROXIDE	RPK561
PLANT AIR	RPK563
PLANT WATER	RPK565

LEGEND	NO.
PLUMBING VENT	RPK567
POLYMER	RPK569
POLYMER SOLUTION	RPK571
POTABLE	RPK573
POTABLE WATER	RPK575
POTABLE WATER	RPK576
PROCESS WATER	RPK577
PROCESS WATER	RPK579
PROCESS WATER RETURN	RPK581
PROCESS WATER SUPPLY	RPK583
PROPANE GAS	RPK585
PROPANE GAS	RPK587
PULP	RPK589
PUMP	RPK591
PUMPED CONDENSATE	RPK593
RAINWATER	RPK595
RAINWATER DRAIN	RPK596
RAW WATER	RPK597
RECIRCULATED WATER	RPK771
RECIRCULATED WATER	RPK773
REFRIGERANT LIQUID	RPK599
REFRIGERANT SUCTION	RPK601
REFRIGERATED LIQUID	RPK603
REFRIGERATED SUCTION	RPK605
REFRIGERATED WATER RETURN	RPK779
REFRIGERATION	RPK607
RETURN	RPK609
RETURN	RPK611
RETURN	RPK613
RETURN	RPK615
ROOF DRAIN	RPK617
SALT WATER	RPK619
SANITARY DRAIN	RPK621
SANITARY SEWER	RPK623
SANITARY VENT	RPK625
SANITARY WASTE	RPK627
SEAL WATER	RPK629
SERVICE AIR	RPK631
SERVICE WATER	RPK633
SEWAGE	RPK635

LEGEND	NO.
SEWER	RPK637
SLUDGE	RPK639
SOAP	RPK641
SODIUM HYDROXIDE	RPK643
SODIUM HYDROXIDE	RPK645
SODIUM HYPOCHLORITE	RPK647
SODIUM HYPOCHLORITE	RPK649
SOFT WATER	RPK651
SOLVENT	RPK653
SPENT ACID	RPK657
SPENT ACID	RPK659
SPRINKLER	RPK661
SPRINKLER FIRE	RPK663
SPRINKLER WATER	RPK665
STEAM	RPK667
STEAM RETURN	RPK669
STEAM SUPPLY	RPK671
STORM DRAIN	RPK673
STORM SEWER	RPK675
STORM WATER	RPK677
SULFUR DIOXIDE	RPK679
SULFUR DIOXIDE	RPK681
SULFURIC ACID	RPK683
SULFURIC ACID	RPK685
SUMP PUMP DISCHARGE	RPK687
SUPPLY	RPK689
SUPPLY	RPK691
SUPPLY	RPK693
TANK DRAIN	RPK695
TEMPERED WATER	RPK697
TEMPERED WATER	RPK699
TOLUENE	RPK701
TOLUENE	RPK703
TOWER WATER	RPK705
TOWER WATER RETURN	RPK707
TOWER WATER SUPPLY	RPK709
TREATED WATER	RPK711
UTILITY WATER	RPK713
UTILITY WATER	RPK715
VACUUM	RPK717



LEGEND	NO.
VACUUM	RPK719
VENT	RPK721
VENT	RPK723
VENT	RPK724
WARM WATER	RPK725
WASTE	RPK727
WASTE WATER	RPK729
WASTE WATER	RPK731
WATER	RPK733
WATER	RPK735
WELL WATER	RPK737
WHITE LIQUOR	RPK739
WHITE LIQUOR	RPK741
WHITE LIQUOR	RPK743
White arrow	RPK745
Black arrow	RPK747
Yellow arrow	RPK749
White arrow	RPK751
Green arrow	RPK753
Blue arrow	RPK757
Red arrow	RPK759
Black arrow	RPK761
Yellow arrow	RPK763
White arrow	RPK765
Green arrow	RPK767
Blue arrow	RPK769

**How to Order Pipe Markers:**

- Find Legend: **ACETONE** RPK101    
  Select Material and Size Code: SSA – Self Stick, 3/4" to 1 1/4"    
  Add Code to Legend No: RPK101SSA

Price per Each

SELF STICK			
Size Code	Pipe Diameter	Marker Size	Price / Each
SSA	3/4" to 1 1/4"	1" x 8"	\$1.80
SSB	1 1/2" to 2"	1 1/2" x 8"	1.91
SSD	2 1/2" to 6"	2 1/2" x 12"	2.26
SSH	8" to 10"	4" x 24"	5.71

CLING-TITE			
Size Code	Pipe Diameter	Marker Size	Price / Each
CTA	3/4" to 1 1/4"	6" x 8"	\$3.48
CTB	1 1/2" to 2"	9" x 8"	4.62
CTC	2 1/4" to 3"	14" x 12"	8.57
CTE	3 1/4" to 5"	19" x 12**	9.48
CTF	5 1/4" to 6"	25" x 12**	9.84

SNAP TITE™			
Size Code	Pipe Diameter	Marker Size	Price / Each
STA	3/4" to 1 1/4"	6" x 8"	\$4.22
STB	1 1/2" to 2"	9" x 8"	5.60
STC	2 1/4" to 3"	14" x 12"	10.37
STE	3 1/4" to 5"	19" x 12**	11.46
STF	5 1/4" to 6"	25" x 12**	11.91

\*Has self-adhesive leading edge for secure fit

# IIAR Ammonia Pipe Markers

Identify Ammonia refrigeration piping and system components.

Meet the International Institute of Ammonia Refrigeration (IIAR) guidelines for proper marking of pipes as specified in Bulletin No. 114. IIAR pipe markers contain the ammonia name and identify the chemical's system, physical state, pressure level, and directional flow. These pipe markers are to be placed at various locations throughout the refrigeration piping system.



International Institute of Ammonia Refrigeration (IIAR). The purpose of this standard is "to establish uniform guidelines for identifying piping in a closed circuit ammonia refrigeration system. Uniform guidelines for identifying ammonia refrigeration piping and system components will promote safety, facilitate maintenance, and provide vital information to emergency service personnel."

## System Abbreviation

The ammonia system type with an abbreviation code (as shown in the table).



## Physical State

The physical state of the ammonia using an abbreviation.

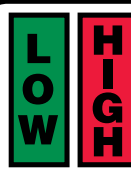
LIQ - Liquid; (black letters on orange background)  
VAP - Vapor; (black letters on blue background)



## Pressure Level

The pressure level of the flow by a single word.

HIGH - more than 70 psig (black letters on red background)  
LOW - 70 psig or less (black letters on green background)



## System Abbreviation Key

SYSTEM	ABBREVIATION	SYSTEM	ABBREVIATION	SYSTEM	ABBREVIATION
Booster Discharge	BD	High Temperature Recirculated Liquid	HTRL	Low Temperature Recirculated Liquid	LTRL
Condenser Drain	CD	High Temperature Recirculated Suction	HTRS	Low Temperature Recirculated Suction	LTRS
Defrost Condensate	DC	High Temperature Suction	HTS	Low Temperature Suction	LTS
Economizer Suction	ES	Hot Gas	HG	Relief Vent.	RV
High Pressure Liquid	HPL	Hot Gas Defrost	HGD	Thermosyphon Return	TSR
High Stage Discharge	HSD	Liquid Injection Cooling	LIC	Thermosyphon Supply	TSS
High Stage Suction	HSS	Low Stage Suction	LSS		

## IIAR Reference Chart

Display the reference chart to identify and explain the make up of the Ammonia pipe marker.

Meet the IIAR standard requiring the chart "be placed in areas that are conspicuous to operating personnel" (IIAR 7.0).

The printed chart is laminated plastic.

**AMMONIA PIPE MARKER IDENTIFICATION CHART**

1 **System Abbreviation**  
Abbreviations of the names given to piping to identify and trace the ammonia refrigeration system. Refer to chart below.

Description	Abbreviation	Description	Abbreviation
Booster Discharge	BD	Low Stage Suction	LSS
Condenser Drain	CD	High Temp. Recirculated Liquid	HTRL
Defrost Condensate	DC	Low Temp. Recirculated Liquid	LTRL
Condenser Return	CR	High Temp. Recirculated Suction	HTRS
Economizer Suction	ES	Low Temp. Recirculated Suction	LTRS
Hot Gas Defrost	HGD	Liquid Injection Cooling	LIC
High Pressure Liquid	HPL	Relief Vent.	RV
High Stage Discharge	HSD	Thermosyphon Return	TSR
High Stage Suction	HSS	Thermosyphon Supply	TSS

2 **Physical State**  
To identify the physical state of ammonia. Both may be used simultaneously or separately.  
Liquid - LIQ (Black letters on Orange Background)  
Vapor - VAP (Black letters on Blue Background)

3 **Ammonia Marker**  
This section always reads "AMMONIA" (Black letters on Yellow Background)

4 **Pressure**  
Indicates flow pressure of ammonia.  
High Pressure (more than 70 psig) - HIGH (Black letters on Red Background)  
Low Pressure (70 psig or less) - LOW (Black letters on Green Background)

5 **Directional Flow Arrow**  
Indicates ammonia flow direction, either right or left on horizontal marker, up or down on vertical marker pointing away from the marker legends.

24" x 18" RAT123

Size	Price / Each
24" x 18"	\$27.57

## IIAR Component Markers



Mark and identify the name of equipment used in ammonia refrigeration system.

The IIAR guidelines specify component markers (IIAR 4.2). Markers stand out with component name in bright contrast black letters on yellow. The pressure level is indicated on the right portion - HIGH for more than 70 psig (black letters on red background) and LOW for 70 psig or less (black letters on green background). Printed on 5-mil thick 4" x 24" high performance vinyl with protective laminate surface and adhesive back. Service temperature rating of -20° to 176°F.

LEGEND	PRESSURE LEVEL	NO.	LEGEND	PRESSURE LEVEL	NO.
ACCUMULATOR	LOW	RAC630	RECEIVER	HIGH	RAC642
COMPRESSOR	HIGH	RAC632	RECIRCULATOR	LOW	RAC644
CONDENSER	HIGH	RAC634	THERMOSYPHON RECEIVER	HIGH	RAC646
EVAPORATOR	LOW	RAC636	TRANSFER VESSEL	HIGH	RAC648
HEAT EXCHANGER	LOW	RAC638	OIL SEPARATOR	HIGH	RAC650
INTERCOOLER	LOW	RAC640			

Size	Price / Each
4" x 24"	\$9.77

For a Custom Component Marker, order **RAC555**, name your legend component, specify pressure level, and provide the quantity. We will get back to you with a quote and delivery.

## Stock IIAR Ammonia Pipe Markers

Choose the pipe marker material to meet your application requirements and environmental conditions. The diameter of the pipe determines the marker size for the proper identification requirements.



**Snap Tite™** - Pre-coiled to 'SNAP' around for a snug fit. 20-mil rigid vinyl has legend repeated upright and up-side-down for universal direction fit and viewing. Temperature range is -4° to 158°F. Ideal for surfaces in less perfect condition.

**Self Stick** - 4-mil flexible vinyl has high-tack acrylic adhesive back with peel-off liner. Displays one legend with directional flow arrows on each end to cut off for proper placement. UV-resistant surface withstands dust, dirt, and grease. Temperature range is -20° to 176°F. Install onto clean, smooth pipe surface.

**Cling-Tite** - Wraps 360° around, legend repeated upright and up-side-down to be seen from all angles. Legend is sub-printed on the underside of 7-mil polyester, further protected by 2-mil polyester backing. Resists scratches, abrasions, and chemical splashes. Dirt, dust, and liquids wipe off. Ideal for use on higher temperature pipes with range of -40° to 302°F.

SYSTEM ABBREVIATION	PHYSICAL STATE	PRESSURE LEVEL	SNAP TITE™ NO.	CLING-TITE NO.	SELF STICK NO.
BD	VAP	LOW	RAP201	RAT303	RAK402
CD	LIQ	HIGH	RAP203	RAT305	RAK404
DC	LIQ	HIGH	RAP205	RAT307	RAK406
ES	VAP	LOW	RAP207	RAT309	RAK408
HG	VAP	HIGH	RAP209	RAT311	RAK410
HGD	VAP	HIGH	RAP211	RAT313	RAK412
HPL	LIQ	HIGH	RAP213	RAT315	RAK414
HSD	VAP	HIGH	RAP215	RAT317	RAK416
HSS	VAP	LOW	RAP217	RAT319	RAK418
HTRL	LIQ	LOW	RAP219	RAT321	RAK420
HTRS	LIQ/VAP	LOW	RAP221	RAT323	RAK422
HTS	VAP	LOW	RAP223	RAT325	RAK424
LIC	LIQ	HIGH	RAP225	RAT327	RAK426
LSS	VAP	LOW	RAP227	RAT329	RAK428
LTRL	LIQ	LOW	RAP229	RAT331	RAK430
LTRS	LIQ/VAP	LOW	RAP231	RAT333	RAK432
LTS	VAP	LOW	RAP233	RAT335	RAK434
TSR	LIQ/VAP	HIGH	RAP235	RAT337	RAK436
TSS	LIQ	HIGH	RAP237	RAT339	RAK438
RV	-	-	RAP260	RAT341	RAK461
(blank)	VAP	LOW	RAP261	RAT343	RAK462
(blank)	VAP	HIGH	RAP262	RAT345	RAK463
(blank)	LIQ	LOW	RAP263	RAT347	RAK464
(blank)	LIQ	HIGH	RAP264	RAT349	RAK465
(blank)	LIQ/VAP	LOW	RAP265	RAT351	RAK466
(blank)	LIQ/VAP	HIGH	RAP266	RAT353	RAK467

**How to Order Pipe Markers:** When placing your order, add pipe outside diameter letter code to the legend/material number.

Select Marker: **CD** **AMMONIA** RAP203  Select Material: C - 3/4" to 1 1/4"  Add the Material Code to Part Number: RAP203C

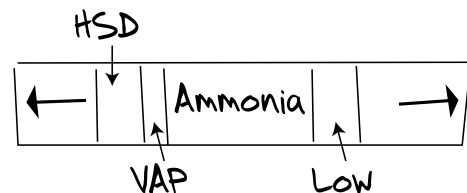
Size Code	Pipe Diameter	Marker Size	Price / Each
C	3/4" to 1 1/4"	6" x 9 3/4"	\$5.28
D	1 1/2" to 2"	9" x 14"	7.02
H+	2 1/4" to 6"	25" x 20 3/4"	14.91
J+	6 1/4" x 8"	30" x 20 3/4"	18.60

Size Code	Pipe Diameter	Marker Size	Price / Each
C	3/4" to 1 1/4"	6" x 9 3/4"	\$4.35
D	1 1/2" to 2"	9" x 14"	5.78
H+	2 1/4" to 6"	25" x 20 3/4"	12.31
J+	6 1/4" x 8"	30" x 20 3/4"	15.40

Size Code	Pipe Diameter	Marker Size	Price / Each
P	3/4" to 1 1/4"	1" x 11"	\$2.26
R	1 1/2" to 2"	1 1/2" x 15 7/8"	2.37
S	2 1/2" to 6"	2 1/2" x 23 5/8"	2.82
T	8" to 10"	3 1/2" x 33 1/2"	7.13

+ comes with self-adhesive leading edge

## How to Order Custom IIAR Ammonia Pipe Markers



### Custom IIAR Snap Tite™ Pipe Markers

Fit Pipe Diameter	Marker Size	No.	1	2 - 5	6 - 9	10 - 24	25 - 49	50 - 99	100+
3/4" to 1 1/4"	6" x 9 3/4"	RAP401	\$43.60	26.88	17.88	11.77	7.45	5.68	5.25
1 1/2" to 2"	9" x 14"	RAP412	45.42	28.88	19.94	13.80	9.56	7.45	7.02
2 1/4" to 6"	25" x 20 3/4"	RAP423+	50.88	34.96	25.96	19.85	15.54	12.31	11.85
6 1/4" to 8"	30" x 20 3/4"	RAP434+	76.39	52.60	39.11	29.88	18.36	16.82	15.25
other size		RAP555	call for quote						

+ comes with self-adhesive leading edge

### Custom IIAR Self Stick Pipe Markers

Fit Pipe Diameter	Marker Size	No.	1	2 - 5	6 - 9	10 - 24	25 - 49	50 - 99	100+
3/4" to 1 1/4"	1" x 11"	RAK601	\$33.36	18.88	11.31	6.14	2.48	1.60	1.14
1 1/2" to 2"	1 1/2" x 15 7/8"	RAK613	35.11	19.85	11.94	6.48	2.68	1.68	1.25
2 1/2" to 6"	2 1/2" x 23 5/8"	RAK625	35.71	20.56	12.56	7.17	3.36	1.99	1.65
8" to 10"	3 1/2" x 33 1/2"	RAK637	38.36	23.51	15.54	10.14	6.25	4.48	4.11
over 10"	4 1/2" x 43"	RAK649	42.25	27.85	19.85	14.48	10.65	8.14	7.76
other size		RAK555	call for quote						

• Write or sketch out your marker. It doesn't have to be exact.

#### Provide us the following specifications:

- Material part number for the appropriate pipe size.
- Ammonia System, Physical State and Pressure Flow.
- Decide how many you need.
- Call, fax or e-mail us your order request.
- We put together your specifications, and send you a proof (upon request), just to make sure you get what you need.

We'll get right back to you with a quotation and delivery time.



## Roll Form Pipe Markers

Wrap around virtually any size pipe when you have multiple pipes or pipes of unknown sizes.

Unroll, measure, and easily cut to length on-site for proper fit.

Wrapping around to itself, the 4-mil overlaminated poly vinyl marker stays on dirty, greasy, and rusty pipes with its high-tack, acrylic adhesive back (cut to length to allow at least 1" overlap). The gloss surface repeats the legend and directional flow arrow, upright and upside-down, for universal direction and visibility from various angles.

Service temperature is -20° to 176°F.

For Pipe OD Size	Roll Size (h x w)	Letter Height	Marker Code
up to 2"	8" x 30-ft.	3/4"	PR
up to 6"	12" x 30-ft.	1 1/4"	PT

### How to Order Pipe Markers:

- Select Legend No: **ACID** RPL100
- Select Size Code: PR - 3/4" letters 8" x 30-ft
- Add Size Code to Legend No: RPL100PR

Price per Roll		Roll Form	
Size Code	Roll Size	Legends / Roll	Price / Roll
PR	8" x 30-ft.	65	\$78.75
PT	12" x 30-ft.	65	85.13

LEGEND	NO.
ACETYLENE GAS	RPL220
ACID	RPL100
AIR	RPL224
AIR	RPL226
AIR	RPL228
AMMONIA	RPL230
ARGON	RPL232
ARGON	RPL234
ASBESTOS FREE	RPL102
CARBON DIOXIDE	RPL236
CAUSTIC	RPL104
CHILLED WATER	RPL106
CHILLED WATER RETURN	RPL108
CHILLED WATER SUPPLY	RPL110
CHLORINE	RPL112
CITY WATER	RPL114
COLD WATER	RPL116
COMPRESSED AIR	RPL118
COMPRESSED AIR	RPL120
CONDENSATE	RPL122
CONDENSATE DRAIN	RPL238
CONDENSATE RETURN	RPL124
CONDENSER WATER RETURN	RPL126
CONDENSER WATER SUPPLY	RPL128
CONTAINS ASBESTOS	RPL130

LEGEND	NO.
ANGER CONTAINS ASBESTOS FIBERS	RPL132
DEMIN WATER	RPL134
DOMESTIC COLD WATER	RPL136
DOMESTIC HOT WATER	RPL138
DRAIN	RPL140
FIRE AUTO SPRINKLERS	RPL142
FIRE PROTECTION WATER	RPL144
FIRE SPRINKLER WATER	RPL240
FUEL OIL	RPL146
GAS	RPL148
HEATING RETURN	RPL150
HEATING SUPPLY	RPL152
HEATING WATER RETURN	RPL154
HEATING WATER SUPPLY	RPL156
HIGH PRESSURE STEAM	RPL158
HIGH PRESSURE WATER	RPL242
HOT	RPL244
HOT WATER	RPL160
HOT WATER RETURN	RPL162
HOT WATER SUPPLY	RPL164
HYDRAULIC OIL	RPL246
HYDROCHLORIC ACID	RPL166
HYDROGEN	RPL168
INSTRUMENT AIR	RPL248
LOW PRESSURE STEAM	RPL170

LEGEND	NO.
MIXED GAS	RPL250
NATURAL GAS	RPL172
NITROGEN	RPL174
NON-POTABLE WATER	RPL176
OXYGEN	RPL178
OXYGEN	RPL180
OXYGEN	RPL254
PLANT AIR	RPL182
POTABLE WATER	RPL184
PROCESS WATER	RPL186
PROPANE GAS	RPL256
RETURN	RPL188
RETURN	RPL190
ROOF DRAIN	RPL192

LEGEND	NO.
SANITARY SEWER	RPL194
SPRINKLER FIRE	RPL196
SPRINKLER WATER	RPL198
STEAM	RPL200
STORM DRAIN	RPL202
SUPPLY	RPL204
SUPPLY	RPL206
TOWER WATER	RPL208
TREATED WATER	RPL210
VACUUM	RPL212
VENT	RPL214
WATER	RPL216
WATER	RPL218

### Custom Roll Form Pipe Markers

Roll Form Pipe Markers are available with your custom information.

When ordering, refer to part number and specify: Legend, Letter and Background Colors, Quantity.

Price per Each						
Roll Size	No.	1	2 - 5	6 - 9	10 -24	25 +
8" x 30-ft.	RPL255	\$85.99	83.54	79.88	74.99	70.14
12" x 30-ft.	RPL455	93.08	89.85	86.05	81.14	75.82

# Roll Tape Pipe Markers

Easily mark pipes quickly at various locations along a piping system.

Use pipe markers in continuous lengths, or tear at perforations. With 72 identical legends per roll, these markers are economical for marking pipes in lots of places. Pipe markers are 6-mil vinyl with protective laminate surface - available in 54-ft. rolls. 1" and 2" wide markers have 3/4" and 1 1/4" high letters respectively. Peel off back liner to expose self-adhesive back and apply to smooth, clean, dry pipe surface. Service temperature is -20° to 140°F.

For Pipe OD Size	Roll Size (h x w)	Marker Size	Letter Height	Marker Code
up to 2"	1" x 54-ft.	1" x 9"	3/4"	SM
up to 6"	2" x 54-ft.	2" x 9"	1 1/4"	MD



Roll Tape Pipe Marker & Directional Flow Arrow Tapes shown.

LEGEND	NO.
ACID	RTA100
AIR	RTA101
AIR	RTA102
AMMONIA	RTA203
ARGON	RTA204
CARBON DIOXIDE	RTA205
CAUSTIC	RTA206
CHILLED WATER	RTA108
CHILLED WTR RTN	RTA209
CHILLED WTR SPLY	RTA210
*(CHILL WTR SPLY - 2" x 9")	
CIRCULATING WTR	RTA211
CITY GAS	RTA213
CITY WATER	RTA215
COLD WATER	RTA216
COLD WATER RTN	RTA112
*(COLD WTR RTN - 2" x 9")	
COLD WTR SUPPLY	RTA114
*(COLD WTR SPLY - 2" x 9")	
COMPRESSED AIR	RTA217
COMPRESSED AIR	RTA218
CONDENSATE	RTA219
CONDENSATE RETURN	RTA220
CONDENSATE SUPPLY	RTA118
COOLING WATER	RTA126
DEIONIZED WATER	RTA128

LEGEND	NO.
DOMESTIC COLD WTR	RTA130
*(DOM COLD WATER - 2" x 9")	
DOM HOT WATER	RTA132
DRAIN	RTA134
FIRE PROTECT WATER	RTA133
*(FIRE PROTECT WTR - 2" x 9")	
FRESH WATER	RTA135
FUEL OIL	RTA136
GAS	RTA137
GASOLINE	RTA139
GLYCOL	RTA138
HEATING RETURN	RTA140
HEATING SUPPLY	RTA142
HI PRESSURE AIR	RTA144
HI PRESSURE COND	RTA146
*(HI PRESS COND - 2" x 9")	
HI PRESSURE STEAM	RTA148
*(HI PRESS STEAM - 2" x 9")	
HI PRESSURE WATER	RTA149
*(HI PRESS WATER - 2" x 9")	
HOT WATER	RTA150
HOT WATER RETURN	RTA151
HOT WATER SUPPLY	RTA153
LO PRESSURE AIR	RTA152
LOW PRESSURE COND	RTA154
*(LOW PRESS COND - 2" x 9")	
LOW PRESSURE STEAM	RTA156
*(LOW PRESS STEAM - 2" x 9")	

LEGEND	NO.
MIXED GAS	RTA143
NATURAL GAS	RTA157
NITROGEN	RTA158
NON POTABLE WATER	RTA159
*(NON POTABLE WTR - 2" x 9")	
OXYGEN	RTA161
PLANT AIR	RTA162
PLANT WATER	RTA163
POTABLE WATER	RTA165
*(POTABLE WTR - 2" x 9")	
PROCESS WATER	RTA164
PROPANE GAS	RTA166
RAW WATER	RTA169
SANITARY DRAIN	RTA170
SANITARY SEWER	RTA172
SPRINKLER FIRE	RTA173

LEGEND	NO.
SPRINKLER WATER	RTA174
STEAM	RTA180
STEAM RETURN	RTA176
STEAM SUPPLY	RTA178
STORM DRAIN	RTA182
TOWER WATER	RTA186
VACUUM	RTA188
VACUUM	RTA187
VENT	RTA189
VENT	RTA190
WASTE	RTA191
WASTE WATER	RTA192
WATER	RTA193
WATER	RTA194

\*Legend in parentheses underneath, represents legend for 2" x 9" marker, where applicable.

## How to Order Pipe Markers:

- Select Legend No: **ACID** RTA100
- Select Size Code: SM - 1" x 54-ft.
- Add Size Code to Legend No: RTA100SM

Price per Roll	ROLL TAPE		
Size Code	Roll Size	Marker Size	Price / Roll
SM	1" x 54-ft.	1" x 9"	\$23.11
MD	2" x 54-ft.	2" x 9"	27.31

## Custom Roll Tape Pipe Markers

Roll Tape Pipe Markers are available with your pipe chemical or content name. When ordering, refer to size part number and specify: Legend or message\*; letter and background colors; and quantity. Call, fax or email your request for a quote and delivery.

\*please note abbreviations may be necessary for legend or message to fit the width of space on the pipe marker panel.

When ordering, refer to part number and specify: Legend, Letter and Background Colors, Quantity.

Roll Size	No.
1" x 54-ft.	RTA555SM
2" x 54-ft.	RTA555MD

## Directional Flow Arrow Tapes

Provide 360° visibility for flow direction with printed arrows repeated the entire tape length. 6-mil vinyl tape has self-adhesive back. Available in six standard ANSI colors. Available wound in 54-ft. rolls.



Size	No.	Price / Roll
1" x 54-ft.	RAW252	\$16.60
2" x 54-ft.	RAW254	21.22
4" x 54-ft.	RAW258	40.53

To order, add color code after part number:  
 Black/Orange - BKOR, Black/Yellow - BKYL, Green/White - GNWT, Blue/White - BUWT, Red/White - RDWT, White/Brown - WTBR.



## Medical Gas Pipe Markers

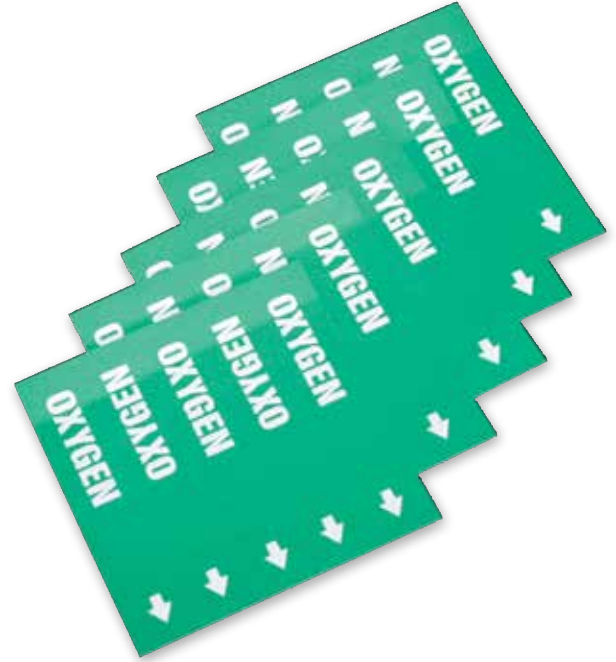
Identify the gas contents of medical gas piping systems.

Mark pipes containing medical gases as specified by the NFPA with color requirements from the CGA. Legends are printed on 3" x 3" marker in 1/4"H characters with directional flow arrows repeated five times, upright and upside-down, for universal directional fit and visibility. The self-stick 4-mil vinyl marker has gloss surface – to withstand splashes, dust and dirt - and strong adhesive back. Peel off liner and wrap around to adhere to pipes up to 3/4" OD size. Service temperature is -20° to 176°F.

Available 20 markers per package.

Size	Price / Pkg. of 20
3" x 3"	\$15.31

LEGEND	NO.	LEGEND	NO.	LEGEND	NO.
CARBON DIOXIDE	RPM303	MEDICAL AIR	RPM309	NON MEDICAL VACUUM	RPM337
CYCLOPROPANE	RPM305	MEDICAL AIR 50-55 PSI	RPM311	NITROUS OXIDE	RPM321
EVAC	RPM333	MEDICAL VACUUM	RPM313	NITROUS OXIDE 50-55 PSI	RPM323
HELIUM	RPM307	NATURAL GAS 2 PSI	RPM315	OXYGEN	RPM325
INSTRUMENT AIR	RPM329	NITROGEN	RPM317	OXYGEN 50-55 PSI	RPM327
LABORATORY AIR	RPM339	NITROGEN 180-200 PSI	RPM319	WAGD	RPM331
LABORATORY VACUUM	RPM335	NON MEDICAL AIR	RPM341		



Designed to meet:



Color requirements as specified by Compressed Gas Association (CGA) Pamphlet C-9 Section 4.1

\*Color coding is a secondary means of identification and should not be used in the absence of content identification.



Designed to meet National Fire Protection Assoc. (NFPA) 99C-Section 4-3.5.4.1

The gas content and operating pressure of medical gas piping systems shall be identifiable by labeling with name and pressure of the gas contained. Labeling shall appear at intervals not more than 20 ft. and at least once in each room and each story traversed by the piping system.

### Custom Medical Gas Pipe Markers

When ordering, refer to part number **RPM555** and provide gas information, character and background color, marker size, and quantity.

## Duct Markers

Mark the air flow and its equipment purpose in your duct work system.

Visible contrasting color system helps to identify and differentiate air systems. Single legend is printed on poly overlaminated self stick vinyl with separate arrow for proper directional flow marking. Marker has gloss surface to withstand splashes, dust, and dirt, along with high-tack adhesive back. Service temperature is -20° to 176°F. Adhere to smooth, clean, dry surface. Available each in two sizes.

For Duct OD Size	Marker Size	Letter Size	Arrow Marker Size	Marker Code
up to 6"	2 1/2" x 12"	1 1/4"	2 1/2" x 2 1/2"	PD
up to 10"	4" x 24"	2 1/2"	4" x 4"	PH

LEGEND			NO.
EXHAUST	EXHAUST	EXHAUST	RPC760
EXHAUST AIR	EXHAUST AIR	EXHAUST AIR	RPC762
INTAKE AIR	INTAKE AIR	INTAKE AIR	RPC764
OUTSIDE AIR	OUTSIDE AIR	OUTSIDE AIR	RPC766
RELIEF	RELIEF	RELIEF	RPC768
RELIEF AIR	RELIEF AIR	RELIEF AIR	RPC770
RETURN AIR	RETURN AIR	RETURN AIR	RPC772
SUPPLY AIR	SUPPLY AIR	SUPPLY AIR	RPC774



Directional Flow Arrow Included with Marker.

### How to Order Duct Markers:

- Select Legend No: **EXHAUST** RPC760
- Select Color Code: BKYL
- Select Size Code: PD
- Add Color and Size Code to Legend No: RPC760BKYL PD

Size Code	Price / Each
PD	\$2.26
PH	5.71

Available colors:

**BKYL** - black letters on yellow  
**GNWT** - white letters on green  
**BUWT** - white letters on blue

### Custom Duct Markers

When ordering, refer to part number **RPC555** and provide the wording, character and background color, marker size, and quantity.



Includes Starter and Maintenance Kits



# Spitfire™ 4 Tag & Label Printer

## Featuring EZ-Peel™ Labels

Have you ever struggled to peel the backing off of a label? Most label media does not have "leading edges" - which means the label runs all the way to the edge, making it difficult to peel. But the Spitfire™ vinyl media features the EZ-Peel™ design which allows you to grip the edge and easily separate your label from its backing.



### Mobile, Compact and Versatile

Fast, all-in-one PC-free printer. Print safety labels for a multitude of purposes – first aid, machine specific labels and much more. Prints 1" to 4" custom labels, along with 3" x 6" tags using a wide variety of blank and pre-printed media. Use Spitfire™ 4 to compliment your safety programs including GHS, 5S and Lean initiatives. Significant cost-savings on labels, tags, & inks.

### Specifications:

- Print speed: Up to 7 inches per second
- Operation: One power switch and feed button
- Resolution: 203 DPI
- Max print width: 4.25"
- Max print length: 90"
- Processor: 32-bit RISC CPU
- AC Input: 100-240V universal switching power supply
- DC output: 24V 3.75A (external adapter)
- Dimensions: 7.40"H x 8.39"W x 12.36"L
- Enclosure: Durable, double-walled plastic
- Connections: Keypad, USB, LPT

### Built-in Templates Include:

- 1 to 4 Line Horizontal
- 1 Line Vertical
- Pipe Marker
- Barcode
- HMCIS
- Safety Tags
- OSHA Label
- ANSI Label
- GHS Label & Pictograms
- NFPA

### Starter Kit Includes:

- (1) 4" x 164' Black Ink Roll
- (1) 4" x 75' White Vinyl
- (1) 2" x 75' White Vinyl

### Maintenance Kit Includes:

- (2) Cleaning Pens (Broad and Narrow Tip)
- (10) Alcohol Swabs
- (10) Dry Swabs
- (10) Dry Wipes

No.	Price / Each
GLM402	\$1,499.50

### Vinyl Media

To order vinyl, add color code after part number: Black – BK, Blue – BU, Brown – BR, Clear – CL, Gray – GY, Green – GN, Orange – OR, Purple – PR, Red – RD, White – WT, Yellow – YL

Roll Size, W x L	No.	Price / Each
<b>Standard Label Printer Vinyl Media</b>		
1" x 150-ft.	GLM431	\$74.50
2" x 150-ft.	GLM432	99.50
3" x 150-ft.	GLM433	119.50
4" x 150-ft.	GLM434	149.50
<b>Mini Label Printer Vinyl Media</b>		
.5" x 150-ft.	GLM970	59.50
1" x 150-ft.	GLM971	79.50
2" x 150-ft.	GLM972	99.50



### Ink

Color	Roll Size, W x L	No.	Price / Each
<b>Standard Label Printer Ink</b>			
Black	4.15" x 984-ft.	GLM420	\$149.50
White	4.15" x 600-ft.	GLM421	149.50
Blue	4.15" x 984-ft.	GLM429	199.50
<b>Mini Label Printer Ink</b>			
Black	2" x 300-ft.	GLM960	59.50
White	2" x 300-ft.	GLM962	59.50

For more printers and supplies, see page 500.

# Self-Code Pipe Markers

Blank space on pipe marker allows you to create a unique character legend that corresponds to your coding identification system for marking pipe contents.

Create a coding system and mark pipes with visual identification to identify chemicals flowing in pipes. Proper procedures in recordkeeping of the codes assigned to the specific chemicals flow are designed for employers and employees to be alert in maintaining a "closed system" to ensure safety.

- Refinery and petrochemical processing plants are complex facilities consisting of a vast network, multi-piping systems. Assure each complete pipeline flow – from start to end – for each chemical pathway is properly identified with a consistent code.
- A coding process can keep the pipelines up and running, reduce down time when content changes occur. Know which pipe lines are involved in changeover, retrofit, draining and purging.
- Identifying pipe content with a coding system can be a cost-effective solution. Eliminate the need to perform take-offs and replacements of chemical name pipe markers.
- Operations can identify and know when to control the opening of valves or pumps on otherwise closed systems. The identified piping system may be worked on, isolated, or locked/tagged out.
- Logging the piping codes can assist in the procedures and instruction for the safe performance of work activities. Workers are trained to understand and adhere to the coding of the pipe marking system.

Self-Code pipe markers are available in several sizes and colors. Note the maximum characters for each size to determine how many characters (sold separately) you can fit onto the pipe marker.

## How to Order:

- Choose blank pipe marker size and color by part number
- Select corresponding characters by size
- Specify characters (letter or number) and color

## Self-Stick Polyester Characters

- 2-mil flexible, UV- and chemical-resistant polyester
- Character on clear to show through background pipe marker color
- Characters are printed and evenly spaced for self-aligning onto pipe marker

To order, add character (letter or number), then color code after part number: Black – BK, White – WT



Step 1: Set out blank pipe marker and characters.



Step 2: Adhere pipe marker onto pipe.



Step 3: Apply characters onto pipe marker.

## Blank Pipe Marker with Arrow, Self-Adhesive

- 4-mil flexible vinyl has UV- and chemical-resistant polyester overlamine
- Self-adhesive, high-tack, acrylic back with peel-off liner
- Printed arrow for proper directional flow marking
- Durable protective gloss surface withstands fading, abrasions, splash, grease, dust, and dirt
- Service temperature range is -20° to 176°F

To order, add color code after part number: Red – RD, Orange – OR, Yellow – YL, Brown – BR, Green – GN, Blue – BU, White – WT, Black – BK

Fits Pipe Diameter	Marker Size	Max. Characters	No.	Price / Each
3/4" to 1 1/4"	1" x 8"	12	RPS705	\$1.80
1 1/2" to 2"	1 1/2" x 8"	8	RPS715	1.91
2 1/2" to 6"	2 1/2" x 12"	11	RPS725	2.26
8" to 10"	4" x 24"	11	RPS735	5.71
Over 10"	4 1/2" x 32"	15	RPS745	9.77

Fits Pipe Diameter	Character Size	Marker Size	No.	Price / Each
3/4" to 1 1/4"	1/2"	3/4" x 5/8"	NAP705	0.59
1 1/2" to 2"	3/4"	1 1/4" x 7/8"	NAP715	0.59
2 1/2" to 6"	1 1/4"	2" x 1"	NAP725	0.68
8" to 10"	2 1/2"	3" x 2"	NAP735	0.97
Over 10"	3 1/2"	4" x 2"	NAP745	1.17

## Custom Self-Code Pipe Markers

Have your specified number pre-printed on your pipe marker. Consider adding a symbol or company logo to the pipe marker. Contact us for a quotation. Specify background color, code color, code, size, image (logo or symbol) and quantity requirements.



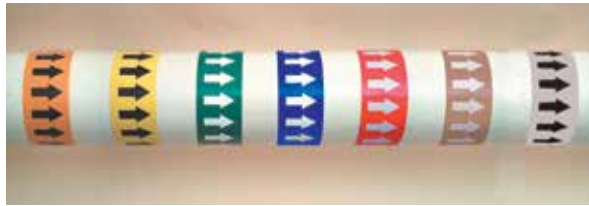
Fits Pipe Diameter	Marker Size	Max. Characters	No.	1	2 - 5	6 - 9	10 - 24	25 - 49	50 - 99	100+
3/4" to 1 1/4"	1" x 8"	12	RPS805	\$26.68	15.11	9.05	4.91	1.99	1.28	0.91
1 1/2" to 2"	1 1/2" x 8"	8	RPS815	28.08	15.88	9.54	5.17	2.14	1.34	0.99
2 1/2" to 6"	2 1/2" x 12"	11	RPS825	28.57	16.45	10.05	5.74	2.68	1.59	1.31
8" to 10"	4" x 24"	11	RPS835	30.68	18.80	12.42	8.11	4.99	3.59	3.28
Over 10"	4 1/2" x 32"	15	RPS845	33.80	22.28	15.88	11.59	8.51	6.51	6.20

## Directional Flow Arrow Tapes

Provide 360° visibility for flow direction with printed arrows repeated the entire tape length. 6-mil vinyl tape has self-adhesive back. Available in six standard ANSI colors. Available wound in 54-ft. rolls.



ASME A13.1, 3.1  
"Arrows shall be used to indicate direction of flow."



To order, add color code after part number:

Black/Orange - BKOR, Black/Yellow - BKYL, Green/White - GNWT, Blue/White - BUWT, Red/White - RDWT, White/Brown - WTBR, Black/White - BKWT

54-FT.			108-FT.		
Size	No.	Price / Roll	Size	No.	Price / Roll
1" x 54-ft.	RAW252	\$16.60	1" x 108-ft.	RAW451	29.22
2" x 54-ft.	RAW254	21.22	2" x 108-ft.	RAW453	41.13
4" x 54-ft.	RAW258	40.53	4" x 108-ft.	RAW459	79.62

## Color Banding Pipe Marking Tapes

Available in a variety of colors and are ideal for coding pipes.

The 5-mil solid color and 6-mil color pattern tapes have self-adhesive back and is self-wound in rolls with no peel-off liner. Apply tape to clean, smooth, dry surface. Service temperature range is -20° to 140°F.



To order, add color code after part number:

Red - RD, Green - GN, Blue - BU, Gray - GY, Brown - BN, Black - BK, Yellow - YL, Orange - OR, White - WT, Purple - PR.

Size	No.	Price / Roll
1" x 108-ft.	PTM613	\$5.80
2" x 108-ft.	PTM623	10.88
3" x 108-ft.	PTM633	15.77

## Stand-Off Pipe Marker Plates

Apply your choice of Self Stick Pipe Marker - standard or IAR - to this blank fiberglass plate backing to create a stand-off pipe marker, with space to add your directional flow arrow. .120" fiberglass withstands impacts and exposures to a variety of environments. Secure pipe marker by looping band strapping or ties (shown on this page) through the plastic stand-offs affixed to the backside of the plate.

Pipe Size	Plate Size	No.	Price / Each
3/4" to 1 1/4"	1" x 9"	HPS109	\$6.88
1 1/2" to 2"	1 1/2" x 9 1/2"	HPS110	9.20
2 1/2" to 6"	2 1/2" x 14 1/2"	HPS111	14.37
8" to 10"	4" x 28"	HPS112	23.93



Band Strapping and Ties sold separately below.



## Pipe Marker Fasteners

### Stainless Steel Band Strapping & Clips



Superior resistance to corrosion along with good heat resistance.

Strapping is 1/4"W x .015" thick, and withstands 300 lb. pull. Continuous length allows for desired cut size.

Pocket size tool applies tension and has built-in cutter.

Item	No.	UOM	Price / UOM
Strapping/100-ft.	HFS100	Roll	\$86.64
Clips/100 each	HFS125	Pkg.	65.11
Tool	HFS150	Each	165.99



### Extra Heavy-Duty Nylon Ties

Made of heavy-duty black nylon. Self-locking mechanism for more permanent mounting. Suitable for use in harsh environments, indoors or out.

Length	Strength	No.	Price / Each
24" lg.	70 lbs. pull	HTT120	\$0.91
48" lg.	175 lbs. pull	HTT128	1.62

### Pipe Marker Stand-Offs

Stainless steel bracket allows you to raise the pipe marker off the pipe. Ideal for temperature sensitive situations. Used with our rigid pipe markers. Mounting hardware included, straps sold separately.



Item	No.	Price / Each
Plus 4 for pipes greater than 4" in diameter	HSR401	\$10.07
Minus 4 for pipes 4" or less in diameter	HSR399	10.07



### Plastic Band Strapping & Clips

1/4" wide black nylon plastic is self locking with choice of non-releasable and semi-releasable clips for later removal. Easily pull tight by hand or with the tool for a secure snug fit. 110-lb. tensile strength.

Item	No.	UOM	Price / UOM
Strapping / 65-ft.	HFS611	Roll	\$59.19
Releasable Clips / 25	HFS616	Pkg.	45.04
Tool	HFS619	Each	206.35

### Stainless Steel Ties

Heavy-duty type 304 stainless steel self-locking ties for harsh or corrosive conditions. .31" wide band has smooth finish with 250-lbs. tensile strength. Can be linked together to accommodate larger pipes.



Length	No.	Price / Each
27"	HFS327	\$5.15
42"	HFS342	6.35