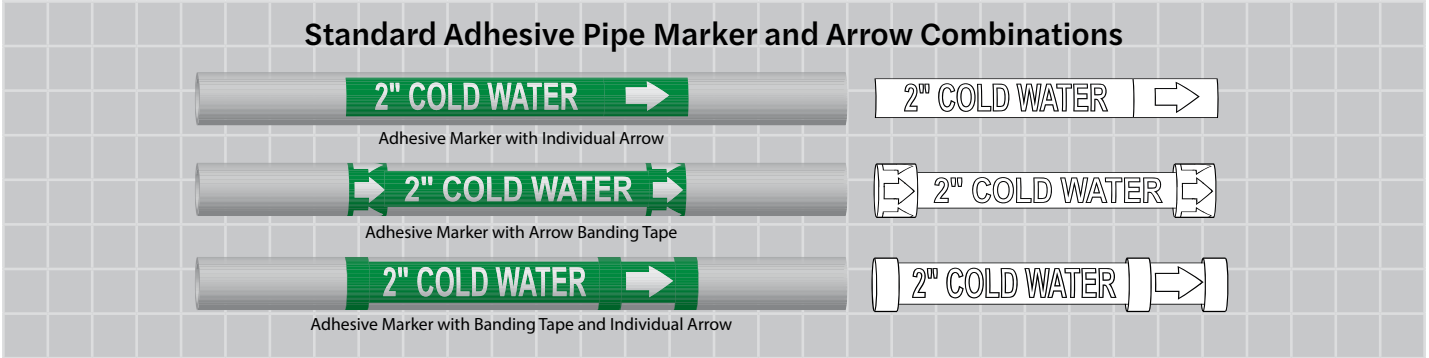


Kolbi adhesive markers are constructed of durable premium grade, outdoor vinyl to withstand exposure to harsh elements. The permanent, pressure sensitive adhesive will adhere to most clean/dry surfaces and stay there for many years. All markers are constructed for easy removal from the liner to speed up installation. Markers comply with ASME A13.1-2020 "Scheme for the Identification of Piping Systems" (see reverse side) when used with Arrow Banding Tape or Individual Arrow Markers.

Product Specifications

Standard Adhesive Pipe Marker and Arrow Combinations



Style	Pipe Outer Diameter (Includes Insulation)		Length of Color Field		Letter Height	
A	.7" - 1.3"	18 - 33mm	9"	229mm	.5"	13mm
B	1.4" - 2.4"	34 - 61mm	9"	229mm	.7"	19mm
C	2.5" - 6.7"	62 - 170mm	14"	356mm	1.3"	32mm
D	6.8" - 10"	171 - 254mm	24"	610mm	2.5"	64mm
E	Over 10"	Over 254mm	32"	813mm	3.5"	89mm

Physical Properties

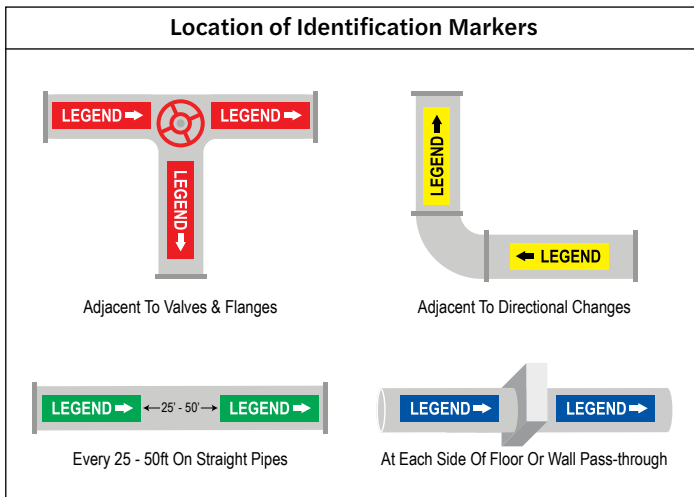
Standards Met	ANSI/ASME A13.1-2020 "Scheme for Identification of Piping Systems" ANSI Z535.1 "Safety Color Code"	
Available Colors	See second page	
Standard Legends	See second page	
Customization	Customize legends, marker color, letter color	
Installation Instructions	Apply to clean dry surface	
Installation Temperature	Above 50° F	
Service Temperature	-40° F to 176° F (-40° C to 82.22° C)	
Water Resistance	Good, Product has passed submersion tests	
Finish	High Gloss	
Material Properties	4 Mil vinyl with pressure sensitive adhesive backing	
Adhesive Properties	Aggressive permanent acrylic adhesive	
	Stainless Steel: 54 oz/in (594 N/m)	Acrylic: 56 oz/in (616 N/m)
	Glass: 53 oz/in (599 N/m)	Polypropylene: 51 oz/in (561 N/m)
	Expected Shear: 5 hours	Tack: gm (740)
Ink Properties	Inks resistant to fading with UV exposure, Semi-Gloss Finish	
Storage Stability	2 years stored at 70° F (21° C) and 50% RH	
Indoor/Outdoor Durability	4 to 6 years	
Abrasion Resistance	Good	
Chemical Resistance	Resistant to Acids, Alkalis and Salts	
Equivalent To	Marking Services MS-900, Seton Opti-Code, Brimar EZ Pipe Markers, Brady Pipe Markers	

Project

DATE MM / DD / YYYY JOB _____

CONTRACTOR NAME _____

LEGEND	LEGEND	LEGEND	LEGEND	LEGEND	LEGEND
L355	110° HOT WATER RETURN	L158	DISTILLED WATER	L531	HEATING WATER SUPPLY
L500	110° HOT WATER RETURN	L161	DOMESTIC COLD WATER	L532	HEATING WATER SUPPLY
L361	110° HOT WATER SUPPLY	L159	DOMESTIC COLD WATER RETURN	L533	HIGH PRESSURE CONDENSATE
L501	110° HOT WATER SUPPLY	L160	DOMESTIC COLD WATER SUPPLY	L534	HIGH PRESSURE CONDENSATE
L357	140° HOT WATER RETURN	L166	DOMESTIC HOT WATER	L535	HIGH PRESSURE GAS
L502	140° HOT WATER RETURN	L511	DOMESTIC HOT WATER	L536	HIGH PRESSURE STEAM
L364	140° HOT WATER SUPPLY	L175	DOMESTIC HOT WATER RECIRC	L537	HIGH PRESSURE STEAM
L35	140° HOT WATER SUPPLY	L512	DOMESTIC HOT WATER RECIRC	L538	HOT WATER
L559	ABANDONED	L174	DOMESTIC HOT WATER RETURN	L539	HOT WATER
L100	ACID	L513	DOMESTIC HOT WATER RETURN	L223	HOT WATER RETURN
L503	ACID	L172	DOMESTIC HOT WATER SUPPLY	L540	HOT WATER RETURN
L102	ACID VENT	L514	DOMESTIC HOT WATER SUPPLY	L224	HOT WATER SUPPLY
L504	ACID VENT	L165	DOMESTIC WATER	L541	HOT WATER SUPPLY
L105	ACID WASTE	L515	DOMESTIC WATER	L225	HYDROGEN
L505	ACID WASTE	L167	DRAIN	L542	HYDROGEN
L111	AIR	L516	DRAIN	L128	INDUSTRIAL COLD WATER
L115	AMMONIA	L152	DUAL TEMP RETURN	L127	INDUSTRIAL HOT WATER
L506	AMMONIA	L517	DUAL TEMP RETURN	L543	INDUSTRIAL HOT WATER
L118	ARGON	L157	DUAL TEMP SUPPLY	L125	INDUSTRIAL WATER
L119	ASBESTOS FREE	L518	DUAL TEMP SUPPLY	L231	INSTRUMENT AIR
L120	BOILER BLOW DOWN	L176	FILTERED WATER	L232	LAB AIR
L121	BOILER FEED WATER	L519	FIRE DAMPER	L234	LAB VACUUM
L122	CARBON DIOXIDE	L520	FIRE PROTECTION	L230	LAB VENT
L507	CARBON DIOXIDE	L180	FIRE PROTECTION WATER	L544	LAB VENT
L124	CARBON DIOXIDE	L181	FIRE SPRINKLER WATER	L233	LAB WASTE
L131	CHILLED WATER	L188	FUEL OIL	L545	LAB WASTE
L35	CHILLED WATER RETURN	L185	FUEL OIL RETURN	L238	LOW PRESSURE CONDENSATE
L129	CHILLED WATER SUPPLY	L186	FUEL OIL SUPPLY	L546	LOW PRESSURE CONDENSATE
L133	CHLORINE	L189	GAS	L240	LOW PRESSURE STEAM
L508	CHLORINE	L521	GEOTHERMAL WATER RETURN	L547	LOW PRESSURE STEAM
L134	CITY WATER	L522	GEOTHERMAL WATER SUPPLY	L246	MAKE-UP WATER
L137	COLD WATER	L191	GLYCOL	L247	MEDICAL AIR
L135	COLD WATER RETURN	L523	GLYCOL	L249	MEDIUM PRESSURE CONDENSATE
L136	COLD WATER SUPPLY	L190	GLYCOL RETURN	L250	MEDIUM PRESSURE STEAM
L138	COMPRESSED AIR	L524	GLYCOL RETURN	L548	MEDIUM PRESSURE STEAM
L139	COMPRESSED AIR	L195	GLYCOL SUPPLY	L255	NATURAL GAS
L142	CONDENSATE	L525	GLYCOL SUPPLY	L256	NATURAL GAS 2 PSI
L509	CONDENSATE	L201	HEAT PUMP RETURN	L258	NITROGEN
L143	CONDENSATE DRAIN	L202	HEAT PUMP SUPPLY	L259	NITROGEN
L35	CONDENSATE DRAIN	L208	HEATING HOT WATER RETURN	L260	NITROUS OXIDE
L103	CONDENSATE RETURN	L526	HEATING HOT WATER RETURN	L262	NON-POTABLE WATER
L510	CONDENSATE RETURN	L210	HEATING HOT WATER SUPPLY	L549	NON-POTABLE WATER
L145	CONDENSER WATER RETURN	L527	HEATING HOT WATER SUPPLY	L560	NON-POTABLE WATER
L146	CONDENSER WATER SUPPLY	L204	HEATING RETURN	L266	OXYGEN
L147	CONDENSER WATER	L528	HEATING RETURN	L267	PLANT AIR
L150	COOLING WATER	L207	HEATING SUPPLY	L268	POTABLE COLD WATER
L148	COOLING WATER RETURN	L529	HEATING SUPPLY	L269	POTABLE HOT WATER
L149	COOLING WATER SUPPLY	L211	HEATING WATER RETURN	L273	POTABLE WATER
L153	DEIONIZED WATER	L530	HEATING WATER RETURN	L276	PROCESS WATER
				L279	PROPANE GAS
				L280	PUMPED CONDENSATE
				L550	PUMPED CONDENSATE
				L282	RAIN WATER
				L283	REFRIGERANT
				L287	REFRIGERANT LIQUID
				L288	REFRIGERANT SUCTION
				L290	RETURN
				L35	RETURN
				L293	ROOF DRAIN
				L291	SANITARY DRAIN
				L292	SANITARY SEWER
				L294	SANITARY VENT
				L295	SANITARY WASTE
				L297	SNOWMELT RETURN
				L298	SNOWMELT SUPPLY
				L300	SOFT WATER
				L303	SOLAR RETURN
				L304	SOLAR SUPPLY
				L307	SPRINKLER
				L309	SPRINKLER WATER
				L316	STEAM
				L551	STEAM
				L317	STEAM CONDENSATE
				L552	STEAM CONDENSATE
				L310	STEAM RETURN
				L319	STEAM SUPPLY
				L553	STEAM SUPPLY
				L313	STORM DRAIN
				L314	STORM SEWER
				L315	STORM WATER
				L320	SUMP PUMP DISCHARGE
				L321	SUPPLY
				L554	SUPPLY
				L328	TEMPERED WATER
				L555	TEMPERED WATER
				L326	TOWER WATER
				L324	TOWER WATER RETURN
				L325	TOWER WATER SUPPLY
				L329	VACUUM
				L556	VACUUM
				L331	VENT
				L557	VENT
				L332	WASTE
				L558	WASTE
				L334	WASTE
				L336	WASTE WATER
				L339	WATER
				L340	WELL WATER

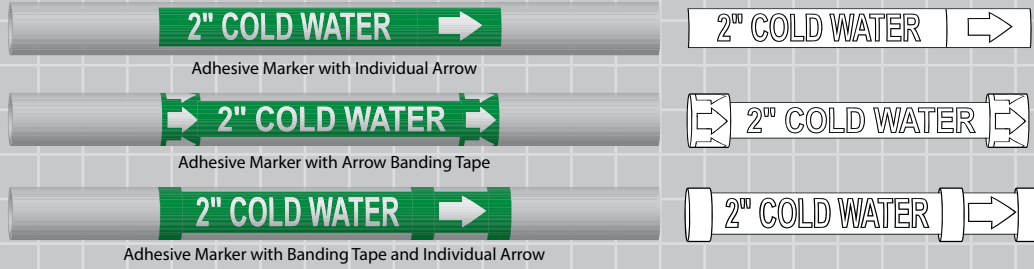


Color Designations

Fluid Service	Letters & Colors
Fire Quenching Fluids	LETTERS
Toxic And Corrosive Fluids	LETTERS
Flammable Liquids	LETTERS
Combustible Fluids	LETTERS
Potable, Cooling, Boiler Feed, Other Water	LETTERS
Compressed Air	LETTERS
Defined By User	LETTERS
Defined By User	LETTERS
Defined By User	LETTERS
Defined By User	LETTERS

Kolbi adhesive markers are constructed of durable premium grade, outdoor vinyl to withstand exposure to harsh elements. The permanent, pressure sensitive adhesive will adhere to most clean/dry surfaces and stay there for many years. All markers are constructed for easy removal from the liner to speed up installation. Markers comply with ASME A13.1-2015 "Scheme for the Identification of Piping Systems" (see reverse side) when used with Arrow Banding Tape or Individual Arrow Markers.

Standard Adhesive Pipe Marker and Arrow Combinations



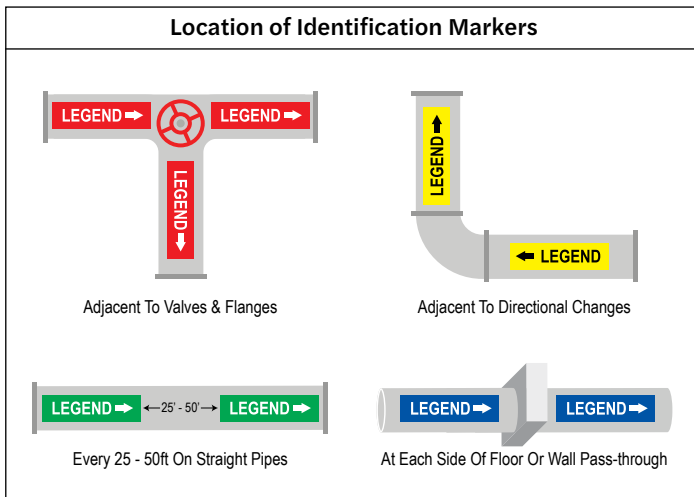
Style	Pipe Outer Diameter (Includes Insulation)		Length of Color Field		Letter Height	
A	3/4" - 1-1/4"	19 - 32 mm	9"	229mm	1/2"	13mm
B	1-1/2" - 2-3/8"	38 - 51mm	9"	229mm	3/4"	19mm
C	2-1/2" - 7-7/8"	63.5 - 178mm	14"	356mm	1-1/4"	32mm
D	8" - 10"	204 - 254 mm	24"	610mm	2-1/2"	64mm
E	10" +	254mm +	32"	813mm	3-1/2"	89mm

Standards Met	ANSI/ASME A13.1-2015 "Scheme for Identification of Piping Systems" ANSI Z535.1 "Safety Color Code"	
Available Colors	See second page	
Standard Legends	See second page	
Customization	Customize legends, marker color, letter color	
Installation Instructions	Apply to clean dry surface	
Installation Temperature	Above 50° F	
Service Temperature	-40° F to 176° F (-40° C to 82.22° C)	
Water Resistance	Good, Product has passed submersion tests	
Finish	High Gloss	
Material Properties	4 Mil vinyl with pressure sensitive adhesive backing	
Adhesive Properties	Aggressive permanent acrylic adhesive Stainless Steel: 54 oz/in (594 N/m) Acrylic: 56 oz/in (616 N/m) Glass: 53 oz/in (599 N/m) Polypropylene: 51 oz/in (561 N/m) Expected Shear: 5 hours Tack: gm (740)	
Ink Properties	Inks resistant to fading with UV exposure, Semi-Gloss Finish	
Storage Stability	2 years stored at 70° F (21° C) and 50% RH	
Indoor/Outdoor Durability	4 to 6 years	
Abrasion Resistance	Good	
Chemical Resistance	Resistant to Acids, Alkalis and Salts	
Equivalent To	Marking Services MS-900, Seton Opti-Code, Brimar EZ Pipe Markers, Brady Pipe Markers	

DATE ____ / ____ / ____ JOB _____
MM DD YYYY

CONTRACTOR NAME _____

LEGEND	LEGEND	LEGEND	LEGEND	LEGEND	LEGEND
L355	110° HOT WATER RETURN	L158	DISTILLED WATER	L531	HEATING WATER SUPPLY
L500	110° HOT WATER RETURN	L161	DOMESTIC COLD WATER	L532	HEATING WATER SUPPLY
L361	110° HOT WATER SUPPLY	L159	DOMESTIC COLD WATER RETURN	L533	HIGH PRESSURE CONDENSATE
L501	110° HOT WATER SUPPLY	L160	DOMESTIC COLD WATER SUPPLY	L534	HIGH PRESSURE CONDENSATE
L357	140° HOT WATER RETURN	L166	DOMESTIC HOT WATER	L535	HIGH PRESSURE GAS
L502	140° HOT WATER RETURN	L511	DOMESTIC HOT WATER	L536	HIGH PRESSURE STEAM
L364	140° HOT WATER SUPPLY	L175	DOMESTIC HOT WATER RECIRC	L537	HIGH PRESSURE STEAM
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L142	CONDENSATE	L525	GLYCOL SUPPLY	L256	NATURAL GAS 2 PSI
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				L283	REFRIGERANT
				L287	REFRIGERANT LIQUID
				L288	REFRIGERANT SUCTION
				L290	RETURN
				L35	RETURN
				L293	ROOF DRAIN
				L291	SANITARY DRAIN
				L292	SANITARY SEWER
				L294	SANITARY VENT
				L295	SANITARY WASTE
				L297	SNOWMELT RETURN
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				L303	SOLAR RETURN
				L304	SOLAR SUPPLY
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				L309	SPRINKLER WATER
				L316	STEAM
				L551	STEAM
				L317	STEAM CONDENSATE
				L552	STEAM CONDENSATE
				L310	STEAM RETURN
				L319	STEAM SUPPLY
				L553	STEAM SUPPLY
				L313	STORM DRAIN
				L314	STORM SEWER
				L315	STORM WATER
				L320	SUMP PUMP DISCHARGE
				L321	SUPPLY
				L554	SUPPLY
				L328	TEMPERED WATER
				L555	TEMPERED WATER
				L326	TOWER WATER
				L324	TOWER WATER RETURN
				L325	TOWER WATER SUPPLY
				L329	VACUUM
				L556	VACUUM
				L331	VENT
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				L332	WASTE
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Flammable Liquids	LETTERS
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Compressed Air	LETTERS
Defined By User	LETTERS
Defined By User	LETTERS
Defined By User	LETTERS
Defined By User	LETTERS