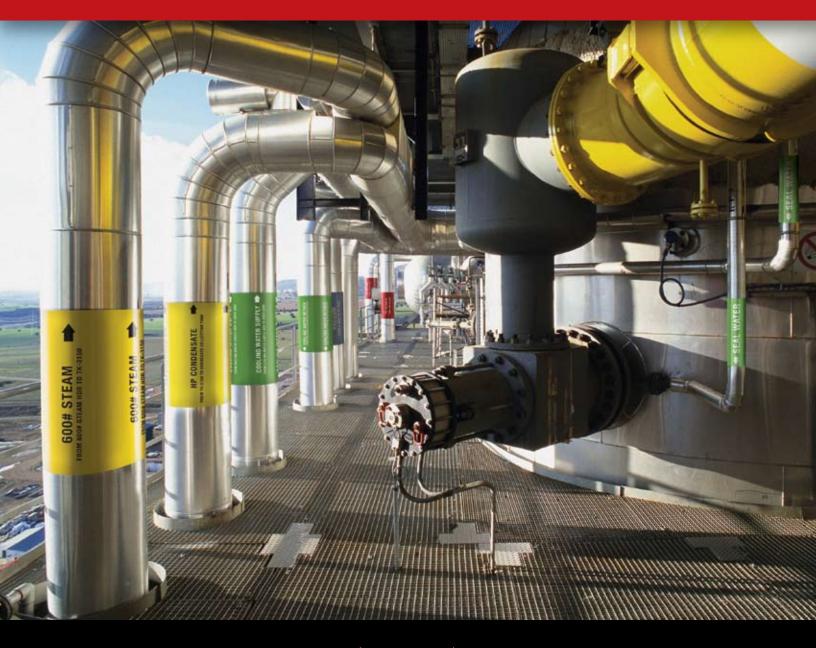
Pipe and Valve Identification





MARKING SERVICES INCORPORATED



ENGINEERING





MATERIAL TAKE-OFFS

MANUFACTURING





INSTALLATION

MSI products provide highly visible information that clearly communicates the origin, destination and contents of piping systems, identifies location of valves and equipment and the presence of safety hazards. When properly installed, our products become an integral part of safe and efficient plant operations.

Our objective at Marking Services Incorporated is to raise the level of safety awareness by standardizing hazard identification and piping system layouts to better promote safe work conditions that minimize downtime due to errors or accidents. It's a comprehensive approach to mechanical identification that we back up with our long-standing commitment to innovative products, quality service and on-time delivery. And it's why we ask to be your pipe identification specialist.

CONTENTS

Pipe Markers and Tapes 2

- 2 Introduction
- 4 Coiled plastic markers
- 8 Self-adhesive markers
- 10 Duct markers
- 11 Flow Directional **Arrow** Tape
- 11 Color banding tape
- 12 Medical gas markers
- 12 Markers for tubing and small pipe
- 13 Mini-markers
- 14 Economy markers
- 16 Fire protection and fire sprinkler ID

- stainless steel markers

- 18 Underground warning tape
- 19 Stencils
- 19 Plenum rated duct markers
- 20 Cable & Conduit markers
- 21 Maxilar[™] markers
- 24 Customized Maxilar[™] mark
- 24 High temperature

	11		
26	Am	monia Refrigeration	
I	26	Pipe markers	
	28	Stainless steel tags	
	29	Max-Tek [™] valve tags	
	30	Photoluminescent tags	
	30	Ammonia signage	
32	Val	ve and Equipment Tags	
	32	Max-Tek [™] tags	
	33	Engraved plastic tags	
	34	Brass valve tags	
	35	Valve tag fasteners and accessories	
	36	Laser-etched stainless steel tags	
	37	Control valve and sample point location tags	
	37	Bar coded Max-Tek™ tags	
	38	Annodized aluminum tags	
	38	Aluminum equipment tags	
ers			

Signs

39 Introduction	00		
	'YY I	ntrod	luction
	00	111100	laction

DANGER

ACID EYE PROTECTION AND PROTECTIVE CLOTHING REQUIRED

- 40 Custom signs
- 41 OSHA Right-toknow signs
- 41 Max-Tek[™] tank and vessel ID signs
- 42 Photoluminescent evacuation and escape signs
- 44 Safety/Operations signs
- 46 Accident prevention tags

48 Turnkey installation

Pipe Markers and Tapes



Our pipe identification labels provide a quick, accurate snapshot of critical information such as pipe content, flow direction, origin and destination. Proper pipe labeling eliminates the need to trace lines and promotes a greater understanding of piping layouts, translating to a quicker commissioning of a new building or facility upgrade. See page 24 for these customized labels. MSI offers three main choices of pipe marking materials, each designed for use in a specific environment.

MS-970 Coiled Plastic Markers:

Recommended for indoor use on dirty, oily or existing piping systems, especially where surface preparation for adhesive markers would require substantial labor costs. Coiled plastic markers are simply wound or snapped into place around piping, allowing for quick application without adhesives.

MS-900 Self-Adhesive Markers and Tapes:

Recommended for newly-installed piping in environments that are not exposed to sunlight or harsh environmental conditions. After the backing is removed, these markers simply may be applied directly to the pipe.

MS-995 Maxilar™ Markers:

Recommended for use in applications involving process chemicals, food processing, pharmaceuticals, water treatment facilities, and in marine and offshore environments. These markers are made of a Polyester/MS-1000 material that offers proven durability on outdoor piping systems exposed to sunlight, chemicals or other harsh environmental conditions.

MS-970



Pipe diameter	Marker style	Marker width	Character height	Marker type	
1/4" - 3/8"	ТМ	3″	1/4″	coil-on	
½″ – 1″	А	8″	1/2″	coil-on	
1 ¹ /8″ – 2 ¹ /4″	В	8″	3⁄4″	coil-on	
2 ³ /8″ - 3 ¹ /4″	С	12″	11⁄4″	coil-on	
3 ³ /8″ - 4 ¹ /2″	D	12″	11⁄4″	coil-on	
4 ⁵ /8″ – 5 ⁷ /8″	E	12″	11⁄4″	coil-on	
6″ – 7½″	F	12″	1 ½″″	strap-on	
8″ – 10″	G	24″	2 ½″	strap-on	
over 10"	Н	34″	31⁄2″	strap-on	

MS-970 Coiled Plastic Markers

For indoor environments where high heat and harsh chemicals are not present.

MS-970 coiled plastic pipe markers are constructed of 20 mil. vinyl, and are designed to identify piping in a wide variety of environments, especially in applications where the pipe surface is rough, oily, wet or rusty. They stay in place on pipes due to the memory of the coiling process, and therefore do not rely on adhesives.

No pipe surface preparation is required for application, so installation time is reduced. These markers wrap completely around the pipe [up to 6" diameter]. For pipes with a diameter of 6" or larger, a nylon strap-on version is provided. Flow direction arrows are included on all markers. Legends are sub-surface printed to protect them from environmental deterioration.

Complies with ASME A13.1 "Scheme for the Identification of Piping Systems" with regard to color, letter height and marker size.

1/4″ – ³ /8″	ТМ
1/2" - 1"	А
1 ¹ / ₈ " - 2 ¹ / ₄ "	В
2 ³ / ₈ " - 3 ¹ / ₄ "	С
3 ³ / ₈ " - 4 ¹ / ₂ "	D
4 ⁵ /8" - 5 ⁷ /8"	E
6″ – 7 ⁷ / ₈ ″	F
8″ – 10″	G
over 10"	Н
Diameter includes i	nsulation thickness

TO ORDER

- 1] Submit a list of all markers needed. Specify legend and outside pipe diameter [include any insulation].
- 2] Determine the four-digit part number for each legend (from the list on the following page) along with the marker style letter indicating the pipe size. [Example: The marker "CHILLED WATER" for a 4" outside diameter pipe would have part number 9807-D]
- 3] Determine the price per marker by adding all stock markers together regardless of size. Refer to the "Pricing Per Stock Marker" table for the best quantity price based on total number of markers ordered.

FEATURES

- Coiled construction quickly snaps around pipe
- Ideal for rusty, dirty or sweating pipes where adhesive markers cannot be used
- No pipe surface preparation needed
- Adheres to itself so it can be wrapped tightly without falling off.
- Plastic nylon straps are included to secure marker in place on larger pipes (6" and larger)
- Can be removed and reused
- No minimum quantity is required on orders
- Service temperature range: -40° F to 160° F
- Flow direction arrows are printed on each marker
- Standard background colors: Yellow, Green, Red, Blue, White, Orange
- Standard copy colors: White, Black

Save installation time and cost

Coiled Markers provide the fastest, easiest method for installation of pipe markers.





PRICING		K MARKER			
Style	1-99	100-249	250-499	500 +	
ТМ	\$2.04	\$1.97	\$1.83		
А	\$2.42	\$2.30	\$1.98		
В	\$3.16	\$3.03	\$2.59		
С	\$6.11	\$5.93	\$4.67	Call for	
D	\$6.40	\$6.23	\$5.13	a quote	
E	\$6.76	\$6.54	\$5.41		
F	\$6.76	\$6.54	\$5.41		
G	\$9.66	\$9.25	\$7.85		
Н	\$13.23	\$12.92	\$10.69		

MS-970 Coiled Plastic Markers

Legend	Color	Part #	Legend	Color	Part #	Legend	Color	Part #
ACID	Yellow	9801	EXHAUST	Yellow	9825	PLANT AIR	Green	9847
ACID VENT	Yellow	9778	FILTERED WATER	Green	9885	PLANT WATER	Green	9702
ACID WASTE	Yellow	9779	FIRE PROTECTION WATER	Red	9826	POLYMER	Yellow	9742
AIR	Blue	9875	FIRE SPRINKLER WATER	Red	9736	POLYMER SOLUTION	Yellow	9743
ALUM	Yellow	9876	FREON	Green	9827	POTABLE WATER	Green	9848
AMMONIA	Yellow	9803	FUEL GAS	Yellow	9886	PROCESS WATER	Green	9853
ARGON	Green	9804	FUEL OIL	Yellow	9828	PROCESS WATER RETURN	Green	9703
ASBESTOS FREE INSULATION	Blue	9729	FUEL OIL RETURN	Yellow	9737	PROCESS WATER SUPPLY	Green	9704
BOILER FEEDWATER	Yellow	9805	FUEL OIL SUPPLY	Yellow	9738	PROPANE	Yellow	9849
BOILER BLOWDOWN	Yellow	9812	GAS	Yellow	9829	PUMPED CONDENSATE	Yellow	9705
BRINE	Yellow	9730	GLYCOL RETURN	Yellow	9774	RAW WATER	Green	9850
BYPASS	Yellow	9877	GLYCOL SUPPLY	Yellow	9775	REFRIGERANT LIQUID	Yellow	9706
CAUSTIC	Yellow	9806	HEATING HOT WATER RETURN	Yellow	9869	REFRIGERANT SUCTION	Yellow	9707
CARBON DIOXIDE	Yellow	9878	HEATING HOT WATER SUPPLY	Yellow	9870	RETURN	Green	9851
CHEMICAL FEED	Yellow	9879	HEATING RETURN	Yellow	9832	RETURN	Yellow	9852
CHILLED WATER	Green	9807	HEATING SUPPLY	Yellow	9833	ROOF DRAIN	Green	9872
CHILLED WATER RETURN	Green	9808	HEATING WATER RETURN	Yellow	9887	SANITARY DRAIN	Green	9708
CHILLED WATER SUPPLY	Green	9809	HEATING WATER SUPPLY	Yellow	9888	SANITARY SEWER	Green	9709
CHLORINE	Yellow	9810	HI PRESS CONDENSATE	Yellow	9834	SANITARY VENT	Green	9710
CHLORINE SOLUTION	Yellow	9731	HI PRESS GAS	Yellow	9871	SANITARY WASTE	Green	9755
CIRCULATING WATER	Green	9811	HI PRESS STEAM	Yellow	9835	SEAL WATER	Green	9711
CITY WATER	Green	9813	HOT WATER	Yellow	9836	SERVICE AIR	Yellow	9746
COLD WATER	Green	9814	HOT WATER RETURN	Yellow	9861	SOFT COLD WATER	Green	9756
COLD WATER RETURN	Green	9866	HOT WATER SUPPLY	Yellow	9862	SOFT WATER	Green	9712
COLD WATER SUPPLY	Green	9867	HYDRAULIC OIL	Yellow	9889	SPRINKLER WATER	Red	9854
COMPRESSED AIR	Yellow	9815	HYDROCHLORIC ACID	Yellow	9739	STEAM	Yellow	9855
COMPRESSED AIR	Blue	9732	HYDROGEN	Yellow	9890	LO PRESS STEAM	Yellow	9839
CONDENSATE	Yellow	9816	INDUSTRIAL COLD WATER	Green	9891	MED PRESS STEAM	Yellow	9841
CONDENSATE DRAIN	Yellow	9880	INDUSTRIAL HOT WATER	Yellow	9740	HI PRESS STEAM	Yellow	9835
LO PRESS CONDENSATE	Yellow	9838	INSTRUMENT AIR	Blue	9892	STEAM CONDENSATE	Yellow	9713
MED PRESS CONDENSATE	Yellow	9881	LAB AIR	Yellow	9893	STORM DRAIN	Green	9873
HI PRESS CONDENSATE	Yellow	9834	LAB VACUUM	Yellow	9894	STORM SEWER	Green	9868
CONDENSATE RETURN	Yellow	9817	LAB WASTE	Yellow	9895	STORM WATER	Green	9714
CONDENSATE SUPPLY	Yellow	9818	LO PRESS CONDENSATE	Yellow	9838	SULFURIC ACID	Yellow	9715
CONDENSER WATER	Green	9819	LO PRESS STEAM	Yellow	9839	SUMP PUMP DISCHARGE	Yellow	9716
CONDENSER WATER RETURN	Green	9864	LUBE OIL	Yellow	9896	SUPPLY	Green	9856
CONDENSER WATER SUPPLY	Green	9865	MAKE UP WATER	Green	9840	SUPPLY	Yellow	9857
COOLING WATER	Green	9820	MED PRESS CONDENSATE	Yellow	9881	TEMPERED WATER	Yellow	9717
COOLING WATER RETURN	Green	9882	MED PRESS STEAM	Yellow	9841	TOWER WATER RETURN	Green	9749
COOLING WATER SUPPLY	Green	9883	MEDICAL AIR	Yellow	9897	TOWER WATER SUPPLY	Green	9750
DEIONIZED WATER	Green	9821	MEDICAL VACUUM	White	9753	TREATED WATER	Green	9874
DOMESTIC COLD WATER	Green	9822	METHANOL	Yellow	9898	UTILITY WATER	Yellow	9751
DOMESTIC COLD WATER RETURN	Green	9770	MILL AIR	Blue	9727	VACUUM	Yellow	9858
DOMESTIC COLD WATER SUPPLY	Green	9771	MILL WATER	Green	9728	VACUUM	Green	9718
DOMESTIC HOT WATER	Yellow	9823	NATURAL GAS	Yellow	9842	VENT	Green	9859
DOMESTIC HOT WATER RECIRC	Yellow	9733	NITROGEN	Blue	9741	VENT	Yellow	9719
DOMESTIC HOT WATER RETURN	Yellow	9884	NITROUS OXIDE	Blue	9754	WASTE	Yellow	9720
DRAIN	Green	9824	NON POTABLE WATER	Yellow	9844	WASTEWATER	Yellow	9863
DRAIN	Yellow	9734	OIL	Yellow	9845	WATER	Green	9860
DRINKING WATER				N/ II	9899		Vallaw	0752
	Green	9735	OVERFLOW	Yellow	3033	WATER	Yellow	9752
DUAL TEMP RETURN	Green Yellow	9735 9772	OVERFLOW OXYGEN	Green	9701	WATER WELL WATER	Green	9721

White text on Green, Blue and Red backgrounds

Pipe Markers

Custom MS-970



Pipe Diameter	Marker Style	Pipe Diameter	Marker Style
1/4" - ³ /8"	тм	4 ⁵ /8″ - 5 ⁷ /8″	E
1⁄2″ – 1″	А	6″ – 7 ⁷ /8 ^{″′}	F
1 ¹ /8″ – 2 ¹ /4″	В	8″ – 10″	G
2 ³ /8" - 3 ¹ /4"	С	over 10″	н
3 ³ /8" - 4 ¹ /2"	D		

For pipes with a 6" diameter or larger, use nylon straps to secure the plastic marker around the pipe (straps included)

ORDER EXTRA NYLON STRAPS IF NEEDED						
	Part #	Size	1-49	50-99		
	15786	36"	\$0.79	\$0.72		
	15787	48"	\$1.30	\$1.12		

Customized MS-970 Coiled Plastic Markers

Let MSI customize your MS-970 markers to your exact needs. It's fast, easy and economical. Most orders ship in 24 to 48 hours.

- No setup charges
- No minimum order quantity
- Include any combination of the following items to make up the marker legend:
 - Pipe contents
 - Origin [from] and Destination [to]
 - Line numbers
 - Equipment numbers
 - Flow direction
- Standard background colors: White, Yellow, Green, Blue, Red, Orange, Purple, Brown and Black
- Standard text colors: Black and White
- Custom colors available

TO ORDER

- **1]** Submit a list of all markers needed. Specify legends, colors, quantities and styles, including insulation thickness.
- **2]** Custom markers ship in 1-2 days
- **3]** No minimum quantity required
- **4]** For orders with 10 or more markers per legend, add them together for best price. For custom legends with a quantity of 9 or less, use first column pricing.

Example:	20 each	В	"Aeration Air"	\$ 3.50
	20 each	D	"Digester Gas"	\$ 7.18
	20 each	G	"Mixed Sludge"	\$ 11.06

Style	1-9	10-49	50-99	100+
ТМ	\$2.70	\$2.51	\$2.29	
А	\$3.20	\$2.86	\$2.70	
В	\$4.11	\$3.87	\$3.50	
С	\$7.29	\$7.09	\$6.16	Call for a
D	\$7.52	\$7.37	\$7.18	
E	\$7.74	\$7.43	\$7.33	quote
F	\$7.74	\$7.43	\$7.33	
G	\$11.74	\$11.64	\$11.06	
н	\$16.29	\$15.91	\$15.14	

Pipe Markers MS-900



For line service identification and system color coding

- Complies with the ASME A13.1 "Scheme for the Identification of Piping Systems" regarding color,
- Printed on premium-quality, fade-resistant vinyl
- Adheres well to pipe and insulation with only limited surface preparation
- Legend markers can be used with arrow tape or
- Fast, 24-hour turnaround on stock and custom legends

Marker style	Pipe Diameter (includes insulation)	Marker Size	Letter Size
А	³ /4" – 2 ¹ /4"	1" x 8″	3⁄4"
В	21/2" - 77/8"	2¼" x 13"	1¾"
С	8" – 10"	4" x 24"	21/2"
D	Over 10"	4" x 32"	31⁄2"

STOCK PRICING PER MARKER

Style	1-249	250-499	500-999	1,000 +
A	\$0.61	\$0.48	\$0.43	
В	\$1.40	\$1.32	\$1.12	call for
С	\$2.86	\$2.70	\$2.35	a quote
D	\$4.27	\$4.17	\$3.99	

***PRICING PER ARROW MARKER**

Style	1-249	250-499	500-999	1,000 +
А	\$0.39	\$0.33	\$0.31	
В	\$0.77	\$0.74	\$0.69	call for
C / D	\$1.72	\$1.61	\$1.42	a quote
Note: Arrow m	harkers are half th	e length of nine	markers	

MS-900 Self-Adhesive Pipe Markers

PSIGASYellow9110092100VPSINATURALGASYellow9110292101VCPSINATURALGASYellow9110192101VACIDYellow9110092102VVACIDYellow9110392103VVACID WASTEYellow9110392103VVAIRWellow9110392105VVAIRYellow9110692105VVARGONSGreen9110692102922099220992209ARROWSGreen9110692107VVARROWSGreen9110892107VVARROWSBlue9110192110VVARROWSBlue9110192110VVARROWSVellow9110892107VVARROWSGreen9110892107VVARROWSVellow9110892101VVARROWSVellow9110892101VVARROWSVellow9110892101VVARROWSVellow9110392101VVARROWSVellow9110392101VVARROWSVellow9110392101VVARROWSVellow9111392112VVARROWSVellow9111392112VVARROWSVellow91113<				Sty	le	
2PSINATURAL GASYellow9154592545ACETYLENE GASYellow9110092100>ACIDYellow9110092102>ACID VENTYellow9112092102>ACID VENTYellow9110392203>ACID VASTEYellow9110592101>ARSulow9110592105>ARRONGreen91208922089220892208ARRONSArenowitsGreen91209922109211ARROWSRed91210921019211094210ARROWSRed911079210794210ARROWSRed911079210994210ARROWSRed911099210994110ARROWSPellow911099210991110ARROWSYellow911099210991110ARROWSYellow911099210991110BOILER BLOWDOWNYellow911109211091110SOILER BLOWDOWNYellow911119211191110CARBON DIOXIDEYellow91111921119111CARBON DIOXIDEYellow91111921119111CARBON DIOXIDEYellow9111292112YellowCHULED WATER NETURNGreen9111692110YellowCHULED WATER RETURNGreen9111292112YellowCHULED WATER SUPPLYGreen911292122Yellow <tr< td=""><td>Legend</td><td></td><td></td><td>B</td><td>С</td><td>D</td></tr<>	Legend			B	С	D
ACETYLENE GAS Yellow 91101 92101 ACID Yellow 91102 92102 ACID Yellow 91302 92302 ACID VENT Yellow 91302 92302 ACID VENT Yellow 91103 92101 ACID VENT Yellow 91105 92111 ARGON Green 91208 92208 93208 94208 *ARROWS Red 91210 92212 93212 94210 *ARROWS Red 91210 92112 92121 94212 ARROWS Blue 91107 92107 92109 93110 94110 ARRONDONDON Yellow 91108 92109 93110 94110 SOLER FEED Yellow 91113 92111 93110 94110 CARBON DIOXIDE Yellow 91113 92111 92111 9111 92111 92111 92111 92111 93110 94110 CARBON DIOXIDE Yellow 91113 92111 92111 92111 92111 92111 92111						
ACID Yellow 91102 92102 Second ACID VKNT Yellow 91103 92400 Second ACID VASTE Yellow 91103 92102 Second AIR Blue 91211 92210 Second AIR Blue 91105 92105 Second ARRONS Green 91208 92208 93209 94209 *ARROWS Red 91210 92210 93210 94210 *ARROWS Red 91210 9210 93209 94209 *ARROWS Blue 91107 92107 9210 94210 *ARROWS Blue 91107 92108 Second 94209 *ARROWS Blue 91107 92101 Second 9110 SOILER BLOWDOWN Yellow 91109 92109 Second 9111 SOILER BLOWDOKNE Yellow 91111 92111 92111 Second 91118 92111 Second 91118 92111 Second 91118 92111 91114 91114 9111						
ACID VENT Yellow 91400 92400 ACID WASTE Yellow 91222 92322 AIR Yellow 91103 92101 AIR Blue 91211 92211						
ACID WASTE Yellow 91322 92322 Second						
Air Yellow 91103 92103 AIR Blue 91211 92211 AIR Blue 91105 92105 ARGON Green 91206 92209 93209 94209 *ARROWS Green 91209 92210 93210 94210 *ARROWS Red 91210 92210 92210 94210 *ARROWS Red 91210 92210 92210 94210 *ARROWS Blue 91107 92107 92107 ************************************						
AMMONIA Yellow 91105 92105 ARGON Green 91106 92106 *ARROWS Yellow 91208 92208 93208 94209 *ARROWS Green 91210 92210 93210 94210 *ARROWS Red 91212 92212 93212 94210 *ARROWS Blue 91107 92107 ************************************	AIR			92103		
ARRON Green 91106 92106 *ARROWS Green 91208 92209 93208 94209 *ARROWS Red 91210 92210 93210 94210 *ARROWS Red 91210 92210 93210 94210 *ARROWS Blue 91107 92107 92112 93210 94211 *ARROWS Yellow 91109 92109 92109 91110 94110 SOLLER FLEDWATER Yellow 91110 92111 92111 94110 BREATHING AIR Blue 91101 92111 93110 94110 CARBON DIOXIDE Yellow 91113 92113 52115 93116 94114 CARBON DIOXIDE Yellow 91113 92113 93116 94115 CHEMICAL FEED Yellow 91117 92117 93116 94116 CHILLED WATER RETURN Green 91118 92118 5116 94116 CHLORINE Yellow 91120 92120 5212 5212 52212 5212 <t< td=""><td>AIR</td><td>Blue</td><td>91211</td><td>92211</td><td></td><td></td></t<>	AIR	Blue	91211	92211		
ARROWS Yellow 91208 92208 93208 94208 *ARROWS Green 91209 92209 93209 94209 *ARROWS Red 91210 92210 93210 94210 *ARROWS Blue 91107 92107 92121 93212 94212 ASBESTOS FREE INSULATION Blue 91107 92107 92107 92107 BOILER FEED Yellow 91108 92101 93110 94110 BOILER FEED Yellow 91111 92111 53110 94110 CARBON DIOXIDE Yellow 91113 92111 53115 94115 CARBON DIOXIDE Yellow 91113 92113 92114 93114 94114 CHLLED WATER Green 91116 92116 93116 94116 CHLLED WATER RETURN Green 91117 92117 93119 93119 CHLORINE SOLUTION Yellow 91120 92402 2222 2222 2222 2222 22212 22212 22212 22214 93124 94140 <td>AMMONIA</td> <td>Yellow</td> <td>91105</td> <td>92105</td> <td></td> <td></td>	AMMONIA	Yellow	91105	92105		
ARROWS Green 91209 92209 93209 94209 ARROWS Blue 91210 92210 93210 94210 ARROWS Blue 91121 92212 93212 94210 ARROWS Blue 91107 92107 92101 94210 BOILER FEED Yellow 91109 92109 92001 94110 BOILER FEED Yellow 91110 92110 93110 94110 BOILER FEED Yellow 91111 92111 111 111 CARBON DIOXIDE Yellow 91113 92112 53115 93115 93115 93116 94116 CALUSTIC Yellow 91113 92114 93114 9411	ARGON	Green	91106	92106		
ARROWS ■ Red 91210 92210 93210 94210 ARROWS ■ Blue 91212 92212 93212 94212 ASBESTOS FREE INSULATION Blue 91107 92107 92107 BOILER EDWODOWN Yellow 91109 92109 92109 BOILER FEEDWATER Yellow 91110 92110 93110 94110 BREATHING AIR Blue 91101 92111 92112 CARBON DIOXIDE Yellow 91113 92113 92113 92114 93114 94114 CHAMICAL FEED Yellow 91113 92115 93115 94115 CHILLED WATER RETURN Green 91116 92116 94116 CHILLED WATER SUPPLY Green 91117 92119 93119 CHILED WATER SUPLY Green 91110 92110 92120 CHLORINE Yellow 91120 92122 92120 CHLORINE SOLUTION Yellow 91123 92121	*ARROWS 👄	Yellow	91208	92208	93208	94208
ARROWS Blue 91212 92212 93212 94212 ASBESTOS FREE INSULATION Blue 91107 92107 BOILER RED Yellow 91108 92108 BOILER FEED Yellow 91109 92109 BOILER FEED Yellow 91110 92110 93110 94110 BREATHING AIR Blue 91401 92401 94110 CARBON DIOXIDE Yellow 91112 92112 CARBON DIOXIDE Yellow 91113 92113 92114 91114 CARBON DIOXIDE Yellow 91112 92112 CARBON DIOXIDE Yellow 91111 92114 93114 94114 CHLILED WATER Green 91115 92115 93115 94115 CHLILED WATER SUPPLY Green 91118 92119 93119 CHLORINE SOLUTION Yellow 91402 92403 COLD WATER Green 9112 92121 COLD WATER Green <td>*ARROWS 👄</td> <td>Green</td> <td>91209</td> <td>92209</td> <td>93209</td> <td>94209</td>	*ARROWS 👄	Green	91209	92209	93209	94209
ASBESTOS FREE INSULATION Blue 91107 92107 BOILER BLOWDOWN Yellow 91108 92109 BOILER FEED Yellow 91101 92110 94110 BREATHING AIR Blue 91401 92401 SILER FEEDWATER Yellow 91111 92111 CARBON DIOXIDE Grey 91112 92112 CARBON DIOXIDE Yellow 91113 92113 CARBON DIOXIDE Yellow 91113 92113 CARBON DIOXIDE Yellow 91113 92113 CHEMICAL FEED Yellow 91113 92113 CHEMICAL FEED Yellow 91113 92115 93115 94116 CHILLED WATER RETURN Green 91116 92116 93116 94116 CHILLED WATER SUPPLY Green 91116 92116 93116 94116 CHILCRINE SOLUTION Yellow 91402 92402 CIRCULATING WATER Green 91118 92118 CLEAN DRY AIR Blue 91403 92403 COLD WATER GREEN 91120 92120 COLD WATER SUPPLY Green 91121 92121 COLD WATER SUPPLY Green 91122 92122 COMPRESSED AIR Yellow 91123 92123 CONDENSATE DRAIN Yellow 91124 92124 94124 CONDENSATE NATER Yellow 91125 92125 93125 94125 CONDENSATE DRAIN Yellow 91126 92126 93129 94129 CONDENSATE DRAIN Yellow 91128 92128 93129 94129 CONDENSATE RETURN Green 91120 92129 93129 94129 CONDENSER WATER GREEN 91120 92129 93129 94129 CONDENSER WATER GREEN 91120 92129 93129 94129 CONDENSER WATER SUPPLY Green 91130 92130 93130 94130 COOLING WATER RETURN Green 91131 92131 93131 COOLING WATER RETURN Green 91131 92131 93131 COOLING WATER RETURN Green 91131 92131 93131 COOLING WATER GREEN 91131 92131 93131 COOLING WATER GREEN 91131 92131 93131 COOLING WATER SUPPLY GREEN 91131 92131 93131 COOLING WATER SUPPLY GREEN 91131 92131 93131 COOLING WATER SUPPLY GREEN 91130 92130 COOLING WATER RETURN GREEN 91131 92131 93131 COOLING WATER SUPPLY Yellow 9134 9234 COMESTIC HOT WATER RETURN GREEN 91131 92131 93131 COOLING WATER RETURN GREEN 91131 92131 93131 COOLING WATER RETURN GREEN 91136 92135 93135 CONDENSER WATER RETURN YELLOW 9134 9234 DOMESTIC HOT WATER RETURN YELLOW 9134 9234 DOMESTIC HOT WATER RETURN YELLOW 9134 9234 DOMESTIC HOT WA	*ARROWS 👄	Red	91210	92210	93210	94210
BOILER BLOWDOWNYellow9110892108BOILER FEEDYellow9110992109BOILER FEEDYellow91110921109311094110BOILER FEEDWATERYellow9111192111YellowCARBON DIOXIDEYellow9111192112YellowCARBON DIOXIDEYellow9111392113YellowCARBON DIOXIDEYellow9111392113YellowCAUSTICYellow91114921149311494114CHILLED WATERGreen91115921159311594115CHILLED WATER RETURNGreen91116921269311694116CHLORINE SOUUTIONYellow9140292403Yellow1117YellowCICRULATING WATERGreen9112192121YellowYellow9112492120YellowYellowCOLD WATER SUPPLYGreen9112292120Yellow9112492124YellowYellowCOLD WATER SUPPLYGreen911249212493125YellowYellow911259312594125CONDENSATE DRAINYellow91128921289312894124Yellow911289312894124CONDENSER WATERGreen91129921209312994129Yellow911289313094130CONDENSER WATER SUPPLYGreen91128921289312894124Yellow91128921309313094130CONDENSER WAT	*ARROWS 👄	Blue	91212	92212	93212	94212
BOILER FEEDYellow9110992109BOILER FEEDWATERYellow91110921109311094110BREATHING AIRBlue914019240192401CARBON DIOXIDEYellow911119211192112CARBON DIOXIDEGrey911129211392113CAUSTICYellow911139211392114CAUSTICYellow91113921149311494114CHEMICAL FEEDYellow91115921159311594115CHILED WATER RETURNGreen91116922169311694116CHILED WATER SUPPLYGreen91116921209311994116CHCORINE SOLUTIONYellow911029240211CIRCULATING WATERGreen9111892119931191CIRCULATING WATERGreen911219212011COLD WATER SUPPLYGreen911229212211COLD WATER SUPPLYGreen911229212211CONDENSATEYellow9112492124941242014CONDENSATE RETURNYellow91125921259312894125CONDENSER WATERGreen91129921299312894126CONDENSER WATERGreen91130921309313094130CONDENSER WATERGreen91130921309313094130CONDENSER WATERGreen91130921309313194131 <td>ASBESTOS FREE INSULATION</td> <td>Blue</td> <td>91107</td> <td>92107</td> <td></td> <td></td>	ASBESTOS FREE INSULATION	Blue	91107	92107		
BOILER FEEDWATERYellow91110921109311094110BREATHING AIRBlue914019240192401CARBON DIOXIDEYellow911119211192112CARBON DIOXIDEYellow911139211392113CARBON DIOXIDEYellow911139211392113CAUSTICYellow91113921149311494114CHILED WATERGreen91116921169311594115CHILED WATER SUPPLYGreen91116921169311694116CHILED WATER SUPPLYGreen91117921179211794116CHILED WATER SUPPLYGreen91118921199311994110CIRCULATING WATERGreen9111292120921201000000000000000000000000000000000000	BOILER BLOWDOWN	Yellow	91108	92108		
BREATHING AIR Blue 91401 92401 CARBON DIOXIDE Yellow 91111 92111 CARBON DIOXIDE Grey 91112 92112 CARBON DIOXIDE Grey 91112 92113 CAUSTIC Yellow 91113 92113 92115 CHEMICAL FEED Yellow 91116 92116 93116 94116 CHILLED WATER RETURN Green 91116 92117 92117 91116 CHLORINE Yellow 91102 92402	BOILER FEED	Yellow	91109	92109		
CARBON DIOXIDE Yellow 91111 92111 Yellow CARBON DIOXIDE Grey 91112 92112 Yellow CAUSTIC Yellow 91133 92213 Yellow CHEMICAL FEED Yellow 9113 92114 93114 94114 CHILLED WATER Green 91116 92115 93116 94116 CHILLED WATER SUPPLY Green 91117 92117 Yellow 91102 92102 Yellow CHLORINE SOLUTION Yellow 91110 92119 93119 Yellow Yellow 91103 Yellow CHLORINE SOLUTION Yellow 91120 92120 Yellow 91121 92111 Yellow 91121 Yellow 91121 Yellow 91121 Yellow 91123 Yellow 91123 Yellow 91123 Yellow 91124 92124 Yellow Yellow 91124 92124 93124 94124 COLD WATER RETURN Yellow 91124 92125 93125 94124 Yellow 91125 92125 93125 94124	BOILER FEEDWATER				93110	94110
CARBON DIOXIDE Grey 91112 92112 CAUSTIC Yellow 91113 92113 CAUSTIC Yellow 91213 92213 CHEMICAL FEED Yellow 91213 92214 93114 94114 CHILLED WATER RETURN Green 91116 92116 93116 94116 CHILLED WATER SUPPLY Green 91117 92117 92117 9116 CHILLED WATER SOLUTION Yellow 91402 92402 92112 1 CHILLED WATER Green 91119 92119 93119 1 1 CHORINE SOLUTION Yellow 91402 92402 1 1 1 CHARNER SOLUTION Yellow 91120 92112 1	BREATHING AIR					
CAUSTIC Yellow 91113 92113 CHEMICAL FEED Yellow 91123 92213 CHEMICAL FEED Yellow 91213 92213 CHILLED WATER Green 91114 92114 93114 94114 CHILLED WATER RETURN Green 91116 92216 93116 94115 CHILLED WATER SUPPLY Green 91117 92117 92117 92117 CHILLED WATER SUPLY Green 91119 92119 93116 94116 CHILCRINE SOLUTION Yellow 91402 92402		-				
CHEMICAL FEED Yellow 91213 92213 CHILLED WATER Green 91114 92114 93114 94114 CHILLED WATER RETURN Green 91115 92115 93115 94115 CHILLED WATER SUPPLY Green 91116 92212 93116 94116 CHILORINE Yellow 91117 92117 93117 91117 CHLORINE SOLUTION Yellow 91402 92402		•				
CHILLED WATER Green 91114 92114 93114 94114 CHILLED WATER RETURN Green 91115 92115 93115 94115 CHILLED WATER SUPPLY Green 91116 92216 93116 94116 CHLORINE Yellow 91107 92117 92117 92117 CHLORINE SOLUTION Yellow 91402 92402 92102 CIRCULATING WATER Green 91119 92119 93119 CILCOLD WATER Green 91120 92120 COLD WATER RETURN Green 91121 92121 COLD WATER SUPPLY Green 91123 92123 COLD WATER SUPPLY Green 91124 92124 94124 CONDENSATE SPAIN Yellow 91125 92125 93125 94128 CONDENSATE RETURN Yellow 91128 92128 94128 CONDENSER WATER RETURN Green 91130 92130 93130						
CHILLED WATER RETURN Green 91115 92115 93115 94115 CHILLED WATER SUPPLY Green 91116 92216 93116 94116 CHLORINE Yellow 91117 92117 92117 92117 CHLORINE SOLUTION Yellow 91402 92402 92118 93119 CCHORINE SOLUTION Yellow 91403 92119 93119 93119 CCHORINE SOLUTION Green 91120 92120 92120 93119 CCITY WATER Green 91121 92121 92120 93124 COLD WATER RETURN Green 91122 92122 92122 93124 COMPRESSED AIR Yellow 91124 92124 93125 94124 CONDENSATE Yellow 91125 92125 93125 94125 CONDENSATE RETURN Yellow 91128 92129 94129 CONDENSER WATER RETURN Green 91130 92130 93130 CONDENSER WATER RETURN Green <td></td> <td></td> <td></td> <td></td> <td>02114</td> <td>04114</td>					02114	04114
CHILLED WATER SUPPLY Green 91116 92216 93116 94116 CHLORINE Yellow 91117 92117						
CHLORINE Yellow 91117 92117 CHLORINE SOLUTION Yellow 91402 92402 CHLORINE SOLUTION Yellow 91402 92402 CIRCULATING WATER Green 91118 92119 93119 CIRCULATING WATER Green 91110 92110 93119 CLEAN DRY AIR Blue 91403 92403 9210 COLD WATER RETURN Green 91121 92121 9212 COLD WATER RETURN Green 91123 92123 92123 COMPRESSED AIR Yellow 91124 92124 93124 94124 CONDENSATE Yellow 91125 92125 93125 94125 CONDENSATE RETURN Yellow 91125 92128 94128 CONDENSER WATER Green 91130 92130 94130 CONDENSER WATER RETURN Green 91130 92131 94129 CONDENSER WATER RETURN Green 91286 92287 92129 94129 CONDENSER WATER RETURN Green 91130 92131 92131 9						
CHLORINE SOLUTION Yellow 91402 92402 CIRCULATING WATER Green 91118 92118 CITY WATER Green 91119 92119 93119 CLEAN DRY AIR Blue 91403 92403 92403 COLD WATER Green 91120 92120 92120 COLD WATER RETURN Green 91121 92121 92122 COUD WATER SUPPLY Green 91122 92122 92122 COMPRESSED AIR Yellow 91124 92124 93124 94124 CONDENSATE Yellow 91125 92125 93125 94125 CONDENSATE DRAIN Yellow 91125 92125 93125 94125 CONDENSATE RETURN Yellow 91125 92125 93129 94129 CONDENSER WATER RETURN Green 91130 92130 93130 94130 COOLING WATER RETURN Green 91130 92131 93131 93131 COOLING WATER RETURN Green 91132 92132 92287 COOLI					33110	34110
CIRCULATING WATER Green 91118 92118 CITY WATER Green 91119 92119 93119 CLEAN DRY AIR Blue 91403 92403						
CITY WATER Green 91119 92119 93119 CLEAN DRY AIR Blue 91403 92403						
CLEAN DRY AIRBlue9140392403COLD WATERGreen9112092120COLD WATER RETURNGreen9112192121COLD WATER SUPPLYGreen9112292122COMPRESSED AIRYellow9112392123COMPRESSED AIRBlue9128492284CONDENSATEYellow911249212493124CONDENSATE DRAINYellow911259212593125CONDENSATE RETURNYellow911289212893128CONDENSATE RETURNYellow911289212893129CONDENSER WATERGreen911299212993129CONDENSER WATERGreen911309213093130COOLING WATERGreen911319213193131COOLING WATER SUPPLYGreen9128692286COOLING WATER SUPPLYGreen9128692286COOLING WATER SUPPLYGreen911319213193131COOLING WATER RETURNGreen9113292132DEIONIZED WATERGreen9113492134DEISELYellow9113492134DISCHARGEYellow911369213693136DOMESTIC HOT WATERYellow911369213693137DOMESTIC HOT WATER RETURNYellow9113793137DOMESTIC HOT WATER RETURNYellow9128892288DOMESTIC HOT WATER RETURNYellow91280<					93119	
COLD WATERGreen9112092120COLD WATER RETURNGreen9112192121COLD WATER SUPPLYGreen9112292122COMPRESSED AIRYellow9112392123COMPRESSED AIRBlue9128492284CONDENSATEYellow91124921249312494124CONDENSATE DRAINYellow9128592285CONDENSATE DRAINYellow91125921259312594125CONDENSATE RETURNYellow91128921289312994129CONDENSER WATERGreen91130921309313094130CONDENSER WATER RETURNGreen911319213193131COOLING WATER SUPPLYGreen9128792286COOLING WATER SUPPLYGreen9128792286COOLING WATER SUPPLYGreen9128792132DEIONIZED WATERGreen9113292132DEIONIZED WATERGreen9113492134DOMESTIC COLD WATERGreen9113692136DOMESTIC HOT WATER RETURNYellow9113292285DOMESTIC HOT WATER RETURNYellow9113492344DOMESTIC HOT WATER RETURNYellow9113492135DOMESTIC HOT WATER RETURNYellow9113492137DOMESTIC HOT WATER RETURNYellow9113792137	CLEAN DRY AIR			92403		
COLD WATER SUPPLY Green 91122 92122 COMPRESSED AIR Yellow 91123 92123 COMPRESSED AIR Blue 91284 92284 CONDENSATE Yellow 91124 92124 93124 94124 CONDENSATE DRAIN Yellow 91125 92125 93125 94125 CONDENSATE RETURN Yellow 91125 92128 93128 94128 CONDENSER WATER Green 91129 92129 93129 94129 CONDENSER WATER RETURN Green 91130 92130 93130 94130 COOLING WATER Green 91131 92131 93131 93131 COOLING WATER RETURN Green 91286 92286 COULING WATER RETURN Green 91132 92132 COOLING WATER RETURN Green 91132 92132 DEIONIZED WATER Green 91134 92134 DOMESTIC	COLD WATER		91120	92120		
COMPRESSED AIR Yellow 91123 92123 COMPRESSED AIR Blue 91284 92284 CONDENSATE Yellow 91124 92124 93124 94124 CONDENSATE DRAIN Yellow 91285 92285 94125 CONDENSATE DRAIN Yellow 91125 92125 93125 94125 CONDENSATE RETURN Yellow 91125 92129 93129 94129 CONDENSER WATER Green 91130 92130 93130 94130 CONDENSER WATER RETURN Green 91131 92131 93131 94130 COOLING WATER RETURN Green 91132 92287	COLD WATER RETURN	Green	91121	92121		
COMPRESSED AIR Blue 91284 92284 CONDENSATE Yellow 91124 92124 93124 94124 CONDENSATE DRAIN Yellow 91285 92285 94125 CONDENSATE RETURN Yellow 91125 92125 93126 94125 CONDENSER WATER Green 91128 92129 93129 94129 CONDENSER WATER RETURN Green 91130 92130 93130 94130 COOLING WATER Green 91131 92131 93131 94130 COOLING WATER RETURN Green 91286 92286 COOLING WATER RETURN Green 91287 92287 COOLING WATER SUPPLY Green 91132 92132 DEIONIZED WATER Green 91134 92144 DISCHARGE Yellow 91134 92135 93136 DOMESTIC HOT WATER RECIRC Yellow 91135 92135 93137<	COLD WATER SUPPLY	Green	91122	92122		
CONDENSATE Yellow 91124 92124 93124 94124 CONDENSATE DRAIN Yellow 91285 92285 9125 93125 94125 CONDENSATE RETURN Yellow 91125 92125 93128 94125 CONDENSER WATER Green 91128 92129 93129 94129 CONDENSER WATER RETURN Green 91130 92130 93130 94130 COOLING WATER RETURN Green 91131 92131 93131 94130 COOLING WATER RETURN Green 91132 92132 94129 COOLING WATER RETURN Green 91132 92132 93131 COOLING WATER RETURN Green 91132 92132 COOLING WATER RETURN Green 91132 92132 COOLING WATER Green 91134 92134 DEIONIZED WATER Green 91136 92136 93136	COMPRESSED AIR	Yellow	91123	92123		
CONDENSATE DRAIN Yellow 91285 92285 CONDENSATE RETURN Yellow 91125 92125 93125 94125 CONDENSER WATER Green 91128 92129 93129 94129 CONDENSER WATER RETURN Green 91129 92129 93120 94129 CONDENSER WATER SUPPLY Green 91131 92131 93131 94130 COOLING WATER RETURN Green 91131 92131 93131 94130 COOLING WATER RETURN Green 91286 92286	COMPRESSED AIR	Blue	91284	92284		
CONDENSATE RETURN Yellow 91125 92125 93125 94125 CONDENSER WATER Green 91128 92128 93128 94128 CONDENSER WATER RETURN Green 91129 92129 93129 94129 CONDENSER WATER SUPPLY Green 91130 92130 93130 94130 COOLING WATER Green 91131 92131 93131 93131 COOLING WATER RETURN Green 91286 92286	CONDENSATE	Yellow	91124	92124	93124	94124
CONDENSER WATER Green 91128 92128 93128 94128 CONDENSER WATER RETURN Green 91129 92129 93129 94129 CONDENSER WATER SUPPLY Green 91130 92130 93130 94130 COOLING WATER Green 91131 92131 93131 93131 COOLING WATER RETURN Green 91286 92286 92287 92132 COOLING WATER SUPPLY Green 91132 92132 92132 92132 DEIONIZED WATER Green 91132 92132 92132 92132 92132 DEIONIZED WATER Green 91132 92132 92132 92132 92132 DEIONIZED WATER Green 91134 92214 92214 9214 92134 92134 92135 93135 93136 93136 93136 93136 93136 93136 92135 93135 93135 93135 93135 93135 93135 93135 93135 92135 93136	CONDENSATE DRAIN	Yellow	91285	92285		
CONDENSER WATER RETURN Green 91129 92129 93129 94129 CONDENSER WATER SUPPLY Green 91130 92130 93130 94130 COOLING WATER Green 91131 92131 93131 93131 COOLING WATER RETURN Green 91286 92286 92287 92287 COOLING WATER SUPPLY Green 91287 92287 92132 94130 COOLING WATER SUPPLY Green 91287 92287 92132 94120 DEIONIZED WATER Green 91132 92132 92132 94130 DEIONIZED WATER Green 91134 9214 9214 9214 9214 9214 92134 92135 93136 92136 93136 92136 93136 92135 93135 92135 93135 92135 93135 92135 93135 92135 92135 92135 92135 92135 92135 92135 92135 92135 92135 92135 9214 92141	CONDENSATE RETURN	Yellow	91125	92125	93125	94125
CONDENSER WATER SUPPLY Green 91130 92130 93130 94130 COOLING WATER Green 91131 92131 93131 93131 COOLING WATER RETURN Green 91286 92286 92287 COOLING WATER SUPPLY Green 91132 92132 92132 DEIONIZED WATER Green 91132 92132 92132 DEMINERALIZED WATER Green 91134 92214 9214 DIESEL Yellow 91134 92134 92136 93136 DOMESTIC COLD WATER Green 91136 92136 93136 93136 DOMESTIC HOT WATER RECIRC Yellow 91314 92314 92134 93135 93135 DOMESTIC HOT WATER RETURN Yellow 91328 92288 92135 93137 DOMESTIC HOT WATER SUPPLY Yellow 91423 92423 92423 92423 92423 92423 92423 92423 93137 93137 93137 93137 93137 93137 <	CONDENSER WATER	Green	91128	92128	93128	94128
COOLING WATER Green 91131 92131 93131 COOLING WATER RETURN Green 91286 92286 COOLING WATER SUPPLY Green 91287 92287 DEIONIZED WATER Green 91132 92132 DEIONIZED WATER Green 91214 92214 DEIONIZED WATER Green 9134 92134 DEMINERALIZED WATER Yellow 9134 92134 DISCHARGE Yellow 9134 92136 DISCHARGE Yellow 91135 92135 93136 DOMESTIC COLD WATER Yellow 91135 92135 93135 DOMESTIC HOT WATER RECIRC Yellow 9134 9234 DOMESTIC HOT WATER RETURN Yellow 91423 92423 DOMESTIC HOT WATER SUPPLY Yellow 91423 92137 93137 DOMESTIC WATER Green 91325 92235 DOMESTIC WATER Yellow 91243 92423 DOMESTIC	CONDENSER WATER RETURN	Green	91129	92129	93129	94129
COOLING WATER RETURNGreen9128692286COOLING WATER SUPPLYGreen9128792287DEIONIZED WATERGreen9113292132DEMINERALIZED WATERGreen9121492214DIESELYellow9130492304DISCHARGEYellow9113492136DOMESTIC COLD WATERGreen9113692136DOMESTIC HOT WATERYellow9113592135DOMESTIC HOT WATER RECIRCYellow9131492314DOMESTIC HOT WATER RETURNYellow9128892288DOMESTIC HOT WATER RETURNYellow9132593137DOMESTIC HOT WATER RETURNYellow9132592325DOMESTIC WATERGreen9132592137DOMESTIC WATERYellow9121592137DOMESTIC WATERYellow9128992289DOMESTIC WATERYellow9129092290DOMESTIC WATERYellow9132992289DOMESTIC WATERYellow913092137DARINYellow9129092290DUAL TEMP RETURNYellow9140492404EVACUATION VACUUMYellow913992139EVACUATION VACUUMYellow9132692326EXHAUST AIRYellow9132692326FEEDWATERYellow9140492404	CONDENSER WATER SUPPLY	Green	91130	92130	93130	94130
COOLING WATER SUPPLY DEIONIZED WATERGreen9128792287DEIONIZED WATERGreen9113292132DEMINERALIZED WATERGreen9121492214DIESELYellow9130492304DISCHARGEYellow9113492134DOMESTIC COLD WATERGreen9113592135DOMESTIC HOT WATERYellow9113592135DOMESTIC HOT WATER RECIRCYellow9131492314DOMESTIC HOT WATER RETURNYellow9128892288DOMESTIC HOT WATER RETURNYellow9142392423DOMESTIC HOT WATER SUPPLYYellow9132593137DOMESTIC WATERGreen9132592325DOMESTIC WATERGreen9113792137DARINYellow9128992289DUAL TEMP RETURNYellow9129092290DUAL TEMP SUPPLYYellow9140492404EXHAUSTYellow9132692326STAHUST AIRYellow9132692326STAHUST AIRYellow9140492404	COOLING WATER				93131	
DEIONIZED WATERGreen9113292132DEMINERALIZED WATERGreen9121492214DIESELYellow9130492304DISCHARGEYellow9113492134DOMESTIC COLD WATERGreen9113692136DOMESTIC HOT WATERYellow9113592135DOMESTIC HOT WATER RECIRCYellow9131492314DOMESTIC HOT WATER RETURNYellow9128892288DOMESTIC HOT WATER RETURNYellow9142392423DOMESTIC HOT WATER SUPPLYYellow9132593137DOMESTIC WATERGreen9132592325DOMESTIC WATERGreen9113792137DARAINYellow9128992289DUAL TEMP RETURNYellow9129092290DUAL TEMP SUPPLYYellow9140492404EXHAUSTYellow9132692326SCHAUST AIRYellow9132692326PEDWATERYellow9140492404	COOLING WATER RETURN					
DEMINERALIZED WATER Green 91214 92214 DIESEL Yellow 91304 92304 DISCHARGE Yellow 91134 92134 DOMESTIC COLD WATER Green 91136 92136 93136 DOMESTIC HOT WATER Yellow 91135 92135 93135 DOMESTIC HOT WATER RECIRC Yellow 91314 92314 DOMESTIC HOT WATER RECIRC Yellow 91328 92288 DOMESTIC HOT WATER RETURN Yellow 91423 92423 DOMESTIC WATER Green 91325 92325 DOMESTIC WATER Green 9137 93137 DOMESTIC WATER Green 91325 92235 DOMESTIC WATER Green 9137 93137 DOMAIN Yellow 91289 92289 DOMAIN Yellow 91290 92290 DUAL TEMP SUPPLY Yellow 91404						
DIESELYellow9130492304DISCHARGEYellow9113492134DOMESTIC COLD WATERGreen911369213693136DOMESTIC HOT WATERYellow911359213593135DOMESTIC HOT WATER RECIRCYellow9131492314DOMESTIC HOT WATER RETURNYellow9128892288DOMESTIC HOT WATER SUPPLYYellow9142392423DOMESTIC WATERGreen9132592325DOMESTIC WATERGreen9113792137DARAINYellow9128992289DUAL TEMP RETURNYellow9129092290DUAL TEMP SUPPLYYellow9140492404EVACUATION VACUUMYellow9132693326EXHAUSTYellow913269232693326FEEDWATERYellow9140092140						
DISCHARGEYellow9113492134DOMESTIC COLD WATERGreen911369213693136DOMESTIC HOT WATERYellow911359213593135DOMESTIC HOT WATER RECIRCYellow9131492314DOMESTIC HOT WATER RETURNYellow9128892288DOMESTIC HOT WATER RETURNYellow9142392423DOMESTIC HOT WATER SUPPLYYellow9132592325DOMESTIC WATERGreen91379213793137DRAINGreen91137921593215DUAL TEMP RETURNYellow9128992289DUAL TEMP RETURNYellow9129092290EVACUATION VACUUMYellow9140492404EXHAUSTYellow913269232693326FEEDWATERYellow9140492404						
DOMESTIC COLD WATER Green 91136 92136 93136 DOMESTIC HOT WATER Yellow 91135 92135 93135 DOMESTIC HOT WATER RECIRC Yellow 91314 92314 92136 DOMESTIC HOT WATER RECIRC Yellow 91288 92288 92288 DOMESTIC HOT WATER SUPPLY Yellow 91423 92423 92137 DOMESTIC WATER Green 91325 92325 92137 DOMESTIC WATER Green 91137 92137 93137 DOMESTIC WATER Yellow 91289 92289 92215 DOMAL TEMP RETURN Yellow 91290 92290 92200 DUAL TEMP SUPPLY Yellow 91290 92290 92200 EVACUATION VACUUM Yellow 91404 92404 9200 EXHAUST Yellow 91326 92326 93326 EXHAUST AIR Yellow 91326 92326 93326 FEEDWATER Yellow 91400 92140 92404 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
DOMESTIC HOT WATERYellow911359213593135DOMESTIC HOT WATER RECIRCYellow913149231492314DOMESTIC HOT WATER RETURNYellow912889228892288DOMESTIC HOT WATER SUPPLYYellow914239242392423DOMESTIC WATERGreen913259232592137DOMESTIC WATERGreen911379213793137DRAINYellow912159221593215DUAL TEMP RETURNYellow912909229092290DUAL TEMP SUPPLYYellow9140492404EVACUATION VACUUMYellow9113992139EXHAUSTYellow913269232693326FEEDWATERYellow9140092140					02126	
DOMESTIC HOT WATER RECIRCYellow9131492314DOMESTIC HOT WATER RETURNYellow9128892288DOMESTIC HOT WATER SUPPLYYellow9142392423DOMESTIC WATERGreen9132592325DOMESTIC WATERGreen911379213793137DRAINGreen911379221593215DUAL TEMP RETURNYellow9128992289DUAL TEMP SUPPLYYellow9129092290EVACUATION VACUUMYellow9140492404EXHAUSTYellow9132692326PAIAUST AIRYellow913269232693326FEEDWATERYellow9114092140						
DOMESTIC HOT WATER RETURNYellow9128892288DOMESTIC HOT WATER SUPPLYYellow9142392423DOMESTIC WATERGreen9132592325DRAINGreen911379213793137DRAINYellow912159221593215DUAL TEMP RETURNYellow9129092290DUAL TEMP SUPPLYYellow9140492404EVACUATION VACUUMYellow9113992139EXHAUSTYellow913269232693326FEEDWATERYellow9114092140					55135	
DOMESTIC HOT WATER SUPPLY Yellow 91423 92423 DOMESTIC WATER Green 91325 92325 DRAIN Green 91137 92137 93137 DRAIN Yellow 9125 92215 93215 DUAL TEMP RETURN Yellow 91290 92290 DUAL TEMP SUPPLY Yellow 91404 92404 EVACUATION VACUUM Yellow 91326 93326 EXHAUST Yellow 91326 93326 FEEDWATER Yellow 9130 92139						
DOMESTIC WATER Green 91325 92325 DRAIN Green 91137 92137 93137 DRAIN Yellow 91215 92215 93215 DRAIN Yellow 91215 92215 93215 DUAL TEMP RETURN Yellow 91290 92290 DUAL TEMP SUPPLY Yellow 91404 92404 EVACUATION VACUUM Yellow 91139 92139 EXHAUST Yellow 91326 93326 FEEDWATER Yellow 91404 92404						
DRAIN Green 91137 92137 93137 DRAIN Yellow 91215 92215 93215 DUAL TEMP RETURN Yellow 91289 92289 DUAL TEMP SUPPLY Yellow 91290 92290 EVACUATION VACUUM Yellow 91404 92404 EXHAUST Yellow 91326 93326 FEEDWATER Yellow 91326 93326						
DRAINYellow912159221593215DUAL TEMP RETURNYellow9128992289DUAL TEMP SUPPLYYellow9129092290EVACUATION VACUUMYellow9140492404EXHAUSTYellow9113992139EXHAUST AIRYellow9132692326FEEDWATERYellow9114092140	DRAIN				93137	
DUAL TEMP RETURNYellow9128992289DUAL TEMP SUPPLYYellow9129092290EVACUATION VACUUMYellow9140492404EXHAUSTYellow9113992139EXHAUST AIRYellow9132692326FEEDWATERYellow9114092140	DRAIN					
DUAL TEMP SUPPLYYellow9129092290EVACUATION VACUUMYellow9140492404EXHAUSTYellow9113992139EXHAUST AIRYellow9132692326FEEDWATERYellow9114092140	DUAL TEMP RETURN					
EVACUATION VACUUMYellow9140492404EXHAUSTYellow9113992139EXHAUST AIRYellow913269232693326FEEDWATERYellow9114092140	DUAL TEMP SUPPLY					
EXHAUST Yellow 91139 92139 EXHAUST AIR Yellow 91326 92326 93326 FEEDWATER Yellow 91140 92140	EVACUATION VACUUM					
FEEDWATER Yellow 91140 92140	EXHAUST					
	EXHAUST AIR	Yellow	91326	92326	93326	
	FEEDWATER	Yellow	91140	92140		
Green 91203 92203 93203 94253	FILTERED WATER	Green	91253	92253	93253	94253

See page 11 for MS-900 Flow Directional Arrow Tape

TO ORDER Specify part number and quantity of markers required. Combine total quantity of stock markers of all styles for best price. All markers are individual pieces.

egend	Color	Α	Sty B	C	D	Legend	Color	Α	Sty B	C	D
IRE PROTECTION WATER	Red	91142		93142		OIL FREE AIR	Blue	91413	92413		
IRE SPRINKLER WATER	Red	91143	92143			OUTSIDE AIR	Blue	91329	92329	93329	
REON	Green	91144	92144			OXYGEN	Yellow	91172	92172	00020	
UEL GAS	Yellow	91145	92145			OXYGEN	Green	91330	92330		
UEL OIL	Yellow	91146	92146			PLANT AIR	Green	91173	92173		
	Yellow	91332	92332				Green	91174	92174		
UEL OIL SUPPLY	Yellow	91333	92333			POTABLE WATER	Green	91175	92175		
GAS	Yellow	91147	92147			POTABLE COLD WATER	Green	91414	92414		
GASOLINE	Yellow	91148	92148			POTABLE HOT WATER	Yellow	91415	92415		
GLYCOL	Yellow	91149	92149	93149		PROCESS WATER	Yellow	91176	92176		
GLYCOL RETURN	Yellow	91315	92315			PROCESS WATER	Green	91220	92220		
GLYCOL SUPPLY	Yellow	91316	92316			PROCESS COOLING WATER RET	Green	91416	92416	93416	94
IALON	Red	91150	92150			PROCESS COOLING WATER SUP	Green	91417	92417	93417	94
HEATING	Yellow	91151	92151			PROCESS VACUUM	Yellow	91418	92418		
HEATING HOT WATER RET	Yellow	91291	92291	93291		PROPANE GAS	Yellow	91177	92177		
HEATING HOT WATER SUP	Yellow	91292	92292			PUMPED CONDENSATE	Yellow	91297	92297		
HEATING RETURN	Yellow	91152	92152	93152		RAINWATER	Green	91419	92419		
HEATING SUPPLY	Yellow	91153		93153		RAW WATER	Green	91178	92178	93178	94
EATING WATER RETURN	Yellow	91153	92153	93153		RECIRCULATING HOT WATER	Yellow	91424	92424	00170	54
HEATING WATER SUPPLY	Yellow	91294		93294		REFRIGERANT	Yellow	91179	92179		
H PRESS AIR	Yellow	91154	92154			REFRIGERANT LIQUID	Yellow	91180	92180		
HI PRESS AIR	Blue	91218	92218			REFRIGERANT SUCTION	Yellow	91181	92181		
HI PRESS CONDENSATE	Yellow	91126	92126	93126	94126	RELIEF AIR	Blue	91281	92281	93281	
HI PRESS GAS	Yellow	91155	92155			RETURN AIR	Blue	91282	92282	93282	
HI PRESS STEAM	Yellow	91156	92156	93156	94156	RETURN	Yellow	91182	92182	93182	
HOT GAS	Yellow	91327	92327			RETURN	Green	91183	92183	93183	
IOT WATER	Yellow	91157	92157	93157		ROOF DRAIN	Green	91184	92184	93184	
HOT WATER RETURN	Yellow	91158	92158	93158		SANITARY DRAIN	Green	91236	92236	93236	
HOT WATER SUPPLY	Yellow	91159	92159	93159		SANITARY SEWER	Green	91185	92185	93185	
20° HOT WATER	Yellow	91425	92425			SANITARY VENT	Green	91318	92318		
40° HOT WATER	Yellow	91426	92426			SANITARY WASTE	Green	91298	92298		
60° HOT WATER	Yellow	91427	92427			SEAL WATER	Green	91267	92267		
HOUSE VACUUM	Yellow	91405		93405		SERVICE AIR	Yellow	91221	92221		
	Yellow	91257	92257	33405		SLUDGE	Yellow	91186	92186		
							Yellow	91310			
HYDROCHLORIC ACID	Yellow	91160	92160			SODIUM HYDROXIDE			92310		
IYDROGEN	Yellow	91161	92161			SOFT WATER	Green	91187	92187		
HYDROGEN PEROXIDE	Yellow	91305	92305			STEAM	Yellow	91188	92188	93188	94
HYDROGEN SULFIDE	Yellow	91306	92306			STORM DRAIN	Green	91299	92299	93299	
NDUSTRIAL COLD WATER	Green	91295	92295			STORM SEWER	Green	91300	92300	93300	
NDUSTRIAL HOT WATER	Yellow	91296	92296			STORM WATER	Green	91301	92301	93301	
NDUSTRIAL WASTE	Yellow	91328	92328			SUCTION	Yellow	91190	92190		
NSTRUMENT AIR	Green	91162	92162	93162		SULFURIC ACID	Yellow	91191	92191		
NSTRUMENT AIR	Blue	91219	92219			SUMP PUMP DISCHARGE	Yellow	91331	92331		
NSTRUMENT NITROGEN	Blue	91406	92406			SUPPLY	Yellow	91192	92192	93192	
O PRESS AIR	Green	91163	92163			SUPPLY	Green	91193	92193	93193	
O PRESS CONDENSATE	Yellow	91127		93127	94127	SUPPLY AIR	Blue	91283	92283	93283	
O PRESS GAS	Yellow	91164	92164	55127	5.12/	TEMPERED WATER	Yellow	91302	92302	00200	
O PRESS GAS				02105	04165			91302	92302		
	Yellow	91165	92165	93165	54105		Yellow			02105	
UBE OIL	Yellow	91166	92166				Green	91195	92195	93195	
UBE OIL RETURN	Yellow	91407	92407			TOWER WATER RETURN	Green	91319	92319	93319	
UBE OIL SUPPLY	Yellow	91408	92408			TOWER WATER SUPPLY	Green	91320	92320	93320	
MAKE UP WATER	Green	91167	92167			TREATED WATER	Green	91196	92196		
MED PRESS CONDENSATE	Yellow	91409	92409	93409	94409	ULTRA PURE WATER	Green	91420	92420		
MED PRESS STEAM	Yellow	91189	92189	93189	94189	UTILITY NITROGEN	Green	91421	92421		
MEDICAL AIR	Yellow	91410	92410			UTILITY WATER	Green	91422	92422		
MEDICAL VACUUM	White	91411	92411			VACUUM	Green	91197	92197	93197	
MILL AIR	Blue	91260		93260		VACUUM	Yellow	91198	92198		
MILL WATER	Green	91261		93261	94261	VENT	Green	91199	92199	93199	
NATURAL GAS	Yellow	91168		93168		VENT	Yellow	91200	92200	93200	
NITROGEN	Black			55106		WAGD	Purple	91200	92200	33200	
		91169	92169				•				
	Blue	91317	92317			WASTE	Yellow	91202	92202		
NITROUS OXIDE	Blue	91412	92412			WASTE WATER	Yellow	91201	92201		
NON POTABLE WATER	Yellow	91170	92170			WATER	Green	91203	92203	93203	
DIL	Yellow	91171	92171			WATER	Yellow	91204	92204	93204	

Custom MS-900

DIGESTED SLUDGE

AHU-12 FIRE DAMPER **EXHAUST AIR**

Marker style	Pipe Diameter	Marker Size	Letter Size
Α	³ ⁄4″ thru 2¹⁄4″	1" x 8″	3⁄4"
В	2½" thru 7 ⁷ /8"	2¼" x 13"	1 ³ ⁄4"
С	8" thru 10″	4" x 24"	2¹/ 2"
D	over 10″	4" x 32"	31⁄2"

SUPPLY AIR

RETURN AIR

EXHAUST AIR

Legend	Bkgrd Color	2¼″x 13	4″ x 24″
EXHAUST AIR	Yellow	92326	93326
INTAKE AIR	Blue	92428	93428
OUTSIDE AIR	Blue	92329	93329
RELIEF AIR	Blue	92281	93281
RETURN AIR	Blue	92282	93282
RETURN AIR	Green	92430	93430
SUPPLY AIR	Blue	92283	93283
SUPPLY AIR	Green	92431	93431
ARROW	Yellow	92208	93208
ARROW	Green	92209	93209
ARROW	Blue	92212	93212

TO ORDER CUSTOM MS-900 MARKERS: Specify legend wording, style, colors and quantity of markers required. Combine total number of markers for best price. **MS-900 DUCT MARKERS: Specify the part number and** quantity. Combine all legends for best pricing.

Customized MS-900 Self-Adhesive Pipe Markers

We will design the markers that best meet your needs.

- Fast delivery; usually ships within 24 hours, complete and ready to install
- No set-up charges or minimum quantity requirement
- Colors available: White, Yellow, Green, Blue, Red, Orange, Brown, Black, Grey and Purple

CUSTOM PRICING PER MARKER							
Style	Size	1-9	10-49	50-99	100+		
А	1" x 8"	\$1.46	\$0.92	\$0.74	Call fair		
В	2¼" x 13"	\$1.91	\$1.64	\$1.56	Call for		
С	4" x 24"	\$4.33	\$3.45	\$3.14	a quote		
D	4" x 32"	\$5.51	\$4.70	\$4.44			
For piping	g less than ¾'	" see pages '	12-13.				

MS-900 Duct Markers

Use to identify the air flow and equipment in a Ductwork System.

- Highly visible color-coded labels make it easy to differentiate between different systems
- Individual arrow markers designate direction of flow
- Markers can be customized to designate the specific system or equipment of origin
- Sized to meet ASME A13.1 Standard

499 500-999 1,000 +							
\$1.12 call for							
\$2.35 a quote							
\$0.67 call for							
\$1.38 a quote							
2							

Tapes

MS-900 Flow Directional Arrow Tape

Designed to indicate direction of flow when used with MS-900 pipe markers.

- Standard roll sizes are 1", 2" & 4" wide by 30 yds long. Custom colors are also available. Call for a quote.
- Satisfies ASME A13.1 requirement to show flow direction.

Size	Part nu	mbers fo	r color co	mbinatio	ons availa	ble	
1" x 30 yd.	95101	95102	95103	95104	95105	95106	
2" x 30 yd.	95201	95202	95203	95204	95205	95206	•
4" x 30 yd.	95401	95402	95403	95404	95405	95406	-
	1	Î		Î	1	1	[
	Yellow w/ Black	Green w/White	Red w/White	Blue w/White	Green w/ Black	Orange w/ Black	,

MS-900 Color Banding Tape

When engineering specifications or customer preference require pipe color coding, use MS-900 Color-Banding Tape.

- For color coding in high sunlight areas request UV-protective over-laminate to triple useful life
- Complies with MIL-SPEC 101B
- Standard sizes: 1" and 2" wide by 50 yds long
- Also available in 3", 4" and 6" rolls.

TO ORDER Select part number and quantity of rolls needed. Combine total number of rolls for best pricing.

		YD. ROLL		
Width	1-9	10-24	25-49	50 +
1"	\$19.53	\$18.17	\$15.86	Call for
2"	\$35.81	\$33.81	\$29.56	a quote

Size	1-9	10	0-49	50-99	100 +
1"	\$19.42	\$1	7.66	\$16.03	Call for
2"	\$37.34	\$3	3.66	\$29.82	
A "	¢74.26	¢c	7 0 2	¢60.15	a quote

Use the chart below to determine how many rolls of tape are required. It lists the amount of tape bands that can be cut from a roll for various pipe diameters.

Pipe Diameter	Tape Length	# Bands/Roll
2″	8" Band	135
4″	14" Band	77
6″	21" Band	51
8″	27" Band	40
10″	35" Band	30
12″	41" Band	26



Custom colors available





ucl

MS-900

		- Sar	
Legend	Background Color	Letter Color	Part Number
CARBON DIOXIDE	Gray	White	68501
CARBON DIOXIDE 50 PSI	Gray	White	68502
HELIUM	Brown	White	68503
LAB AIR	Yellow/White	Black	68518
LAB VAC	Black/White	Black	68519
MEDICAL AIR	Yellow	Black	68504
MEDICAL AIR 50 PSI	Yellow	Black	68512
MEDICAL EVAC	Purple	White	68510
MEDICAL VACUUM	White	Black	68506
NITROGEN	Black	White	68507
NITROGEN 160 PSI	Black	White	68514
NITROUS OXIDE	Blue	White	68508
NITROUS OXIDE 50 PSI	Blue	White	68516
OXYGEN	Green	White	68509
OXYGEN 50 PSI	Green	White	68517
WAGD	Purple	White	68511



Legend	Background Color	Part Number
ACETYLENE	Yellow	66501
ACID	Yellow	66502
AIR	Blue	66503
CAUSTIC	Yellow	66504
CHEMICAL FEED	Yellow	66505
CHLORINE	Yellow	66506
CHLORINE LIQUID	Yellow	66507
CHLORINE SOLUTION	Yellow	66508
CLEAN DRY AIR	Blue	66529
COMPRESSED AIR	Yellow	66509
DEIONIZED WATER	Green	66510
DEMINERALIZED WATER	Green	66511
DOMESTIC COLD WATER	Green	66512
DOMESTIC HOT WATER	Yellow	66513
EVACUATION VACUUM	Yellow	66514
GAS	Yellow	66528
HELIUM	Yellow	66527
HYDRAULIC OIL	Yellow	66515
HYDROGEN	Yellow	66516
INSTRUMENT AIR	Blue	66517
INSTRUMENT AIR	Red	66531
LAB AIR	Yellow	66519
LAB GAS	Yellow	66520
LAB VACUUM	Yellow	66521
LUBE OIL	Yellow	66522
NATURAL GAS	Yellow	66524
PLANT AIR	Blue	66518
SAMPLE	Yellow	66525
VACUUM	Yellow	66526
VENT	Yellow	66530

MS-900 Medical Gas Markers

Manufactured per NFPA-99C; CGA C-9-2002 "Standard Industry Color Coding Recommendations for Medical Gases."

- Clearly shows contents (legend) and flow direction on one pressure-sensitive marker for easy installation
- Letters are ¼" high
- Supplied in rolls of 100 labels or individual pieces
- Markers are 3"x 3" and wrap completely around the pipe

PRICE PER INDIVIDUAL MARKER

Style	Size	1-99	100-249	250-499	500 +
ТМ	3" x 3"	\$0.55	\$0.51	\$0.45	call for quote

MS-900 Markers for Tubing & Small-Bore Piping

Identifies tubing or piping less than 1" in diameter.

- Color, legend and flow direction arrows combined on one pressure-sensitive marker
- Markers are 3"x 3" and wrap completely around the pipe for easy installation. Letters are 1/4" high.
- Supplied in individual pieces, or rolls of 100 per roll

 order the exact quantity of labels you need.

STOCK PRICE PER MARKE

Style	Size	1-99	100-249	250-499	500+
ТМ	3" x 3"	\$0.55	\$0.51	\$0.45	call for a quote

Style	Size	1-99	100-249	250-499	500+
ТМ	3" x 3"	\$0.93	\$0.85	\$0.72	call for a quote

TO ORDERSpecify the part number and quantity.Combine total number of stock markers for best price.For large quantities, please call for a quotation. For custommarkers, specify the legend, color and quantity required.



MS-900 Mini-Markers

Use Style "T" mini-markers for labeling ¼" to ¾" process lines, tool connections or utility piping.

- Identify the piping carrying chemicals and gases used in the production of semi-conductors and components
- Easy-to-install, adhesive-backed, permanent markers
- Custom legends, chemical abbreviations and point of connection labels are available
- Style T markers are 1/2" x 21/2" (10 labels per sheet)

STOC				
Style	1 - 249	250 - 499	500 - 999	1,000+
т	\$1.37	\$1.13	\$1.02	call for quote
	OM PRIC			
Style	1 - 249	250 - 499	500 - 999	1,000+
Т	\$1.66	\$1.29	\$1.11	call for quote

I award	0-1	Devet Niemels en
Legend ACETYLENE GAS	Color Yellow	Part Number 95000
ACID	Yellow	95000
ACID WASTE DRAIN	Yellow	95002
AMMONIA	Yellow	95003
AMMONIUM HYDROXIDE	Yellow	95004
ARGON	Blue	95073
ARROW -	Yellow	95005
ARROW	Green	95006
ARROW ➡ ARROW ➡	Blue Red	95007 95008
BORON TRICHLORIDE	Yellow	95009
BREATHING AIR	Blue	95010
CAUSTIC	Yellow	95011
CHEMICAL FEED	Yellow	95012
CHILLED WATER RETURN	Green	95013
CHILLED WATER SUPPLY CHLORINE	Green Yellow	95014 95015
CHLORINE SOLUTION	Yellow	95016
CITY WATER	Green	95017
CLEAN DRY AIR	Blue	95018
COMPRESSED AIR	Blue	95019
CORROSIVE VENT	Yellow	95020
	Green	95021
DEIONIZED WATER RETURN DEIONIZED WATER SUPPLY	Green Green	95022 95023
DEMINERALIZED WATER SOFFLY	Green	95023
DOMESTIC COLD WATER	Green	95025
DOMESTIC HOT WATER	Yellow	95026
ETHYLENE GLYCOL	Yellow	95027
EVACUATION VACUUM	Yellow	95028
FREON GAS	Yellow	95029
HELIUM	Yellow Yellow	95030 95031
HIGH PURITY NITROGEN	Yellow	95032
HYDRAULIC OIL	Yellow	95038
HYDROFLUORIC ACID	Yellow	95033
HYDROGEN	Yellow	95034
HYDROGEN BROMIDE	Yellow	95035
HYDROGEN CHLORIDE HOUSE VACUUM	Yellow Yellow	95036 95037
INDUSTRIAL COLD WATER	Green	95039
INDUSTRIAL HOT WATER	Yellow	95040
INSTRUMENT AIR	Blue	95041
INSTRUMENT NITROGEN	Blue	95042
ISOPROPYL ALCOHOL	Yellow	95043
METHANOL	Yellow Yellow	95044 95045
NATURAL GAS	Yellow	95046
NITROGEN	Blue	95074
NITRIC ACID	Yellow	95047
NITROGEN TRIFLUORIDE	Yellow	95048
NITROUS OXIDE	Yellow	95049
	Blue	95050
OXYGEN OUTSIDE AIR	Yellow Blue	95051 95052
OZONE	Yellow	95052
PHOSPHORIC ACID	Yellow	95054
PLANT AIR	Blue	95055
PROCESS COOLING WATER RET	Green	95056
PROCESS COOLING WATER SUP	Green	95057
PROCESS EXHAUST PROCESS VACUUM	Yellow Yellow	95058 95059
RORETURN	Green	95060
RO SUPPLY	Green	95061
SILANE	Yellow	95063
SOLVENT RECLAIM	Yellow	95075
SOLVENT VENT	Yellow	95064
SULFUR HEXAFLUORIDE	Yellow	95065
SULFURIC ACID ULTRA PURE NITROGEN	Yellow Blue	95066 95072
ULTRA PURE WATER DI RET	Yellow	95072
ULTRA PURE WATER DI SUP	Yellow	95077
ULTRA PURE WATER RET	Green	95067
ULTRA PURE WATER SUP	Green	95068
UTILITY NITROGEN	Blue	95069
	Green	95070
VACUUM WATER	Blue Green	95071 95078
	Green	33078

Legend	Color	Part Number
ACID	Yellow	65101
AIR		65102
BOILER FEEDWATER	Yellow	65140
CHILLED WATER		65106
CHILLED WATER RETURN	Green	65129
CHILLED WATER SUPPLY		65130
CITY WATER	Green	65107
COLD WATER		65108
COMPRESSED AIR	Yellow	65109
CONDENSATE		65110
CONDENSATE RETURN	Yellow	65141
CONDENSER WATER		65111
CONDENSER WATER RETURN	Green	65142
CONDENSER WATER SUPPLY		65143
DEIONIZED WATER	Green	65144
DOMESTIC COLD WATER		65131
DOMESTIC HOT WATER	Yellow	65132
DRAIN	Green	65112
EXHAUST AIR	Yellow	65160
FIRE PROTECTION WATER	Red	65113
FUEL OIL	Yellow	65145
GAS		65114
GLYCOL	Yellow	65146
HEATING	Yellow	65115
HEATING RETURN	Yellow	65133
HEATING SUPPLY	Yellow	65134
HEATING WATER RETURN	Yellow Yellow	65156
HEATING WATER SUPPLY HI PRESS CONDENSATE	Yellow	65157 65147
HI PRESS STEAM	Yellow	65147
HOT WATER	Yellow	65135
HOT WATER RETURN	Yellow	65136
HOT WATER SUPPLY	Yellow	65137
INTAKE AIR	Blue	65161
LO PRESS CONDENSATE	Yellow	65149
LO PRESS STEAM	Yellow	65150
NATURAL GAS	Yellow	65116
NITROGEN	Green	65151
NON POTABLE WATER	Yellow	65138
OIL		65117
OUTSIDE AIR		65162
OXYGEN		65118
POTABLE WATER	Green	65119
RECIRCULATING HOT WATER		65159
RELIEF AIR		65163
RETURN		65120
RETURN	Green	65121
RETURN AIR		65164
ROOF DRAIN	Green	65152
SANITARY DRAIN		
SANITARY SEWER	Green	65153
SPRINKLER WATER		65122
STEAM	Yellow	65123
SUPPLY		65124
SUPPLY	Green	65125
SUPPLY AIR		65165
VACUUM	Yelllow	65126
VENT		65127
WASTEWATER	Yellow	65154
WATER	Green	65128

TO ORDER Specify the part number and quantity. Combine total number of stock rolls for best price. For custom labels specify the legend, color and quantity of rolls needed.





MS-900 Economy Pipe Markers

- Each economy MS-900 adhesive marker is supplied in rolls of 50 identical markers and flow directional arrows
- Markers are 2" x 9" and the directional arrows are 2" x $4\frac{1}{2}$ ". Letter/arrow height is $1\frac{1}{4}$ "
- Perforations between markers ensure easy handling and application
- Use separately or with color banding tape for a complete low-cost marking system [See page 11]

STOCK PRICING PER ROLL

Size	1-4	5-9	10-29	30 +
2" x 9"	\$50.24	\$ 48.67	\$ 42.95	call for a quote

CUSTOM PRICING PER ROLL

Size	1-4	5-9	10-29	30 +
2" x 9"	\$ 67.94	\$ 64.71	\$ 56.07	call for a quote

Note: This product does not meet ASME A13.1-1996 Standard regarding marker size and letter height

MS-900 Adhesive Roll Markers

- Convenient "one-size-fits-all". MS-900 roll markers wrap around all diameters of pipe.
- Easy-to-use adhesive markers wrap around any size pipe. Simply peel the liner from the label and adhere the marker around the pipe.
- Rolls are 61/2" wide and can be cut to the length needed to fit around the pipe
- Letters are 1¹/₄" in height. Legends and flow arrows are printed every six inches.
- Roll size 61/2" x 30'
- Legend is repeated 60 times per roll

Size	1-4	5-9	10-29	30+
6½" x 30'	\$57.57	\$54.48	\$47.59	call for a quote

Size	1-4	5-9	10-29	30+

6¹/_{2"} x 30' \$62.76 \$59.76 \$53.66 call for a quote Note: Longer legends are abbreviated to fit available space. This product does not meet ASME A13.1 Standard regarding marker size

product does not meet ASME A13.1 Standard regarding marker size and letter height.

Legend	Color	Part Number
ACID	Yellow	64001
AIR	Blue	64002
ASBESTOS FREE INSULATION	Blue	64003
BOILER FEEDWATER	Yellow	64004
CAUSTIC	Yellow	64005
CHILLED WATER	Green	64006
CHILLED WATER RETURN	Green	64007
CHILLED WATER SUPPLY	Green	64008
CITY WATER	Green	64009
COLD WATER	Green	64010
COMPRESSED AIR	Blue	64011
COMPRESSED AIR	Yellow	64012
CONDENSATE	Yellow	64013
CONDENSATE RETURN	Yellow	64014
CONDENSER WATER	Green	64015
CONDENSER WATER RETURN	Green	64016
CONDENSER WATER SUPPLY	Green	64017
COOLING WATER RETURN	Green	64018
COOLING WATER SUPPLY	Green	64019
DOMESTIC COLD WATER	Green	64019
DOMESTIC COLD WATER	Yellow	64020
DRAIN		64021
FIRE PROTECTION WATER	Yellow	
	Red	64023
FUEL OIL	Yellow	64024
GAS	Yellow	64025
GLYCOL RETURN	Yellow	64026
	Yellow	64027
	Yellow	64028
HEATING SUPPLY	Yellow	64029
HEATING WATER RETURN	Yellow	64030
HEATING WATER SUPPLY	Yellow	64031
HI PRESS CONDENSATE	Yellow	64032
HI PRESS STEAM	Yellow	64033
HOT WATER	Yellow	64034
HOT WATER RETURN	Yellow	64035
HOT WATER SUPPLY	Yellow	64036
LO PRESS CONDENSATE	Yellow	64037
LO PRESS STEAM	Yellow	64038
MEDIUM PRESS STEAM	Yellow	64039
NATURAL GAS	Yellow	64040
NITROGEN	Green	64041
NON POTABLE WATER	Yellow	64042
OIL	Yellow	64043
OXYGEN	Yellow	64044
POTABLE WATER	Green	64045
RETURN	Yellow	64046
RETURN	Green	64047
ROOF DRAIN	Green	64048
SANITARY DRAIN	Green	64049
SANITARY SEWER	Green	64050
SPRINKLER WATER	Red	64051
STEAM	Yellow	64052
SUPPLY	Yellow	64053
SUPPLY	Green	64054
VACUUM	Yellow	64055
VENT	Yellow	64056
WASTEWATER	Yellow	64057
WATER	Green	64058

Pipe Markers Fire Protection & Fire Sprinkler ID

TO ORDER Specify the part number and quantity. Combine total number of stock for best price. For custom labels/tags specify the legend, color and quantity needed.



MS-970 Coiled Plastic Markers

For indoor environments WITHOUT high heat & harsh chemicals.

- Complies with ASME A13.1 "Scheme for the Identification of Piping Systems"
- Coiled plastic pipe markers are available in six sizes to fit pipe with overall outside diameters of ¼" through 57/8" [including insulation thickness]

тм	¹ /4" - ³ /8"
Α	¹ ⁄2″ – 1″
В	1 ¹ /8" - 2 ¹ /4"
С	2 ³ /8" - 3 ¹ /4"
D	3 ³ /8" - 4 ¹ /2"
E	4 ⁵ /8" - 5 ⁷ /8"
F*	6" - 7 ⁷ /8"
G*	8″ – 10″
Н*	over 10″
*strap	-on

STYLE SIZE

For pipe 6" in diameter and larger, use nylon straps to secure the plastic marker around the pipe (straps included).

LEGEND	COLOR	PART #
FIRE PROTECTION WATER	Red	9826-
FIRE SPRINKLER WATER	Red	9736-

PRICING PER MS-970 STOCK MARKER

Style	1-99	100-249	250-499	500 +
тм	\$2.04	\$1.97	\$1.83	
Α	\$2.42	\$2.30	\$1.98	
В	\$3.16	\$3.03	\$2.59	
С	\$6.11	\$5.93	\$4.67	Call for
D	\$6.40	\$6.23	\$5.13	a quote
E	\$6.76	\$6.54	\$5.41	
F	\$6.76	\$6.54	\$5.41	
G	\$9.66	\$9.25	\$7.85	
н	\$13.23	\$12.92	\$10.69	

MS-900 Self-Adhesive Pipe and Fire Damper Markers

Use MS-900 labels to identify Fire Protection Piping and Fire Damper Access Doors

• Labels easily adhere to access doors and piping

- Markers can be customized to designate the specific system or zone
- Sizes and colors meet the ASME A13.1 Standard

LEGEND	COLOR	SIZE	PART #
FIRE DAMPER ACCESS DOOR	Red	3" x 3"	67000
FIRE/SMOKE DAMPER ACCESS DOOR	Red	3" x 3"	67001

LEGEND	COLOR	1"x 8"	2¼"x 13"	4" x 24"
FIRE DAMPER	Red	91433	92433	93433
FIRE/SMOKE DAMPER	Red	91434	92434	93434
FIRE PROTECTION WATER	Red	91142	92142	93142
FIRE SPRINKLER WATER	Red	91143	92143	93143

with insulation	
A ³ /4" thru 2 ¹ /4" 1" x 8" ³ /4"	
B 2 ¹ /2" thru 7 ⁷ /8" 2 ¹ /4" x 13" 1 ³ /4"	
C 8" thru 10" 4" x 24" 2½"	
D over 10" 4" x 32" 3½"	

STOCK	PRICING	PER MS-900	MARKER	
Style	1-249	250-499	500-999	1,000 +
Α	\$0.61	\$0.48	\$0.43	
В	\$1.40	\$1.32	\$1.12	Call for a quote
С	\$2.86	\$2.70	\$2.35	Call for a quote
D	\$4.27	\$4.17	\$3.99	

PRICE	PER	INDIVID	UAL	MS-900	MARKER

Style	Size	1-99	100-249	250-499	500 +
тм	3" x 3"	\$0.55	\$0.51	\$0.45	Call for a quote

Valve Tag Identification

MSI's valve tags are made of laser-etched red anodized aluminum, rigid engraved plastic or 20-gauge brass tags as noted in 3-8.3 of NFPA Standard #13 for valve identification. The tags can be secured with various fasteners (see page 35 for fasteners).

PRICE PER TAG

2" Round / Square Anodized Aluminum \$3.14 \$2.90 1½" Round Brass \$1.05 \$1.01 call for 2" Round Brass \$1.45 \$1.39 a quote 1½" Round Engraved Plastic \$1.49 \$1.28	SIZE	MATERIAL	1 - 99	100 - 249	250 +
1½" Round Brass \$1.05 \$1.01 call for 2" Round Brass \$1.45 \$1.39 a quote 1½" Round Engraved Plastic \$1.49 \$1.28	1½"	Round / Square Anodized Aluminum	\$2.78	\$2.46	
2" Round Brass \$1.45 \$1.39 a quote 1½" Round Engraved Plastic \$1.49 \$1.28	2"	Round / Square Anodized Aluminum	\$3.14	\$2.90	
1½" Round Engraved Plastic \$1.49 \$1.28	1½"	Round Brass	\$1.05	\$1.01	call for
	2"	Round Brass	\$1.45	\$1.39	a quote
2" Round Engraved Plastic \$2.00 \$1.61	1½"	Round Engraved Plastic	\$1.49	\$1.28	
	2"	Round Engraved Plastic	\$2.00	\$1.61	

Engraved Plastic Tags & Access Door Signs

- Engraving provides high contrast between letter color and background color for easy visibility
- Standard tags are engraved on 1/16" plastic stock with mounting holes or adhesive backing
- Colors: red with white letters; white with black or red letters
- Larger sizes are available; call for a quote

SIZE	UNIT PRICE	SIZE	UNIT PRICE
³ ⁄4" x 2 ¹ ⁄2"	\$2.49	11⁄2" x 4"	\$5.71
1" x 2½"	\$3.45	21⁄2" x 4"	\$6.73
1" x 3"	\$4.79	2" x 6"	\$6.87

MS-900 Self-Adhesive Fire Riser and Sprinkler Labels

- Identify each riser to isolate it for testing/maintenance
- Install labels at manifolds and major changes in direction
- Highly-visible white on red printing provides quick identification for fire departments or in-house personnel
- Mark branch lines from control valve to isolate branch and eliminate the need to shut down the entire main header

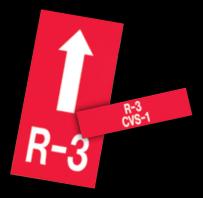
RISER DIAMETER	MARKER SIZE	UNIT PRICE
4" or less	10" x 3"	\$2.48
6" – 8"	12" x 4"	\$3.04
10" – 11"	16" x 6"	\$4.05
11⁄2"	1½" x 6"	\$1.43



TO ORDER Combine quantities for best pricing.



TO ORDER Specify quantity of each tag or signs, legend, letter height, size, colors and whether you need adhesive backing or drilled mounting holes.



TO ORDER Specify riser number, size, and quantity

Pipe Markers Specialty Items

Underground Warning Tape

Stock legend	Color text/ background	part # 3"x1000'	part # 6"x1000'
CAUTION BURIED ELECTRIC LINE BELOW	Black / Red	52201	52208
CAUTION BURIED FUEL LINE BELOW		52202	52209
CAUTION BURIED NATURAL GAS LINE BELOW	Black / Yellow	52203	52210
CAUTION BURIED PIPE LINE BELOW		52204	52211
CAUTION BURIED SEWER LINE BELOW	Black / Green	52205	52212
CAUTION BURIED STEAM LINE BELOW		52207	52213
CAUTION BURIED WATER LINE BELOW	Black / Blue	52206	52214
CAUTION CAUTION CAUTION		51116	NA



Detectable Underground Warning Tape

Color text/ background	part # 3"x1000'	part # 6"x1000
Black/Red	52215	52220
	52216	52221
Black/Green	52226	52227
	52217	52222
Black/Green	52218	52223
	52219	52224
	background Black/Red Black/Yellow Black/Green Black/Yellow Black/Green	background3"x1000'Black/Red52215Black/Yellow52216Black/Green52226Black/Yellow52217Black/Green52218



Price Per Box 25 tacks per box				
Part #	Color	1-9	10-24	25+
35501	Orange	\$20.19	\$19.56	
35502	Red	\$20.19	\$19.56	
35503	White	\$20.19	\$19.56	
35504	Yellow	\$20.19	\$19.56	Call for a quote
35505	Black	\$20.19	\$19.56	
35506	Green	\$20.19	\$19.56	
35507	Light Blue	\$20.19	\$19.56	



TO ORDER Specify the part number and quantity. For custom legends, please call for a quote.

Underground Warning Tape

Color-coded tape guards against costly and dangerous "Dig-ins".

- Designed to be buried above metallic underground piping or cables to warn excavators of utility lines
- Non-adhesive 4 mil. polyethylene tape, surface-printed Available in: 3" or 6" x 1000 ft. rolls
- Custom legends available. Call for a quote.
- Conforms to the APWA Standard

		ROLL	
SIZE	1-2	3-9	10+
3" x 1,000'	\$33.78	\$31.98	call for
6" x 1,000'	\$66.85	\$63.86	a quote

Detectable Underground Warning Tape

Locates buried non-metallic pipes before you dig.

- Printed, 4.5 mil. foil tape allows for any standard metal detector to quickly locate underground services
- Available in: 3" or 6" x 1000 ft. rolls
- Recommended burial depths: 3" tape less than 24" deep; 6"– more than 24" deep

• Custom legends available. Call for a quote.

SIZE	1-2	3-9	10+
3" x 1,000'	\$85.95	\$83.17	call for
6" x 1,000'	\$165.68	\$159.24	a quote

Equipment Locator Tacks

Ideal for marking the location of valves, dampers, booster coils and controllers above acoustical ceiling tiles.

- Simply push tack into ceiling tile or insulation near closest access point
- 7/8" diameter heads can be written on with marking pen
- Available in orange, red, white, yellow, black, green and light blue

Pre-cut Oilboard Stencils and Reusable Plastic Stencils

- Available in several different sizes with larger stencils available upon request
- Standard letter heights: [ASME A13.1 letter sizes included] 1/2", 3/4", 1", 11/4", 11/2", 2", 21/2" and 31/2"
- Reusable stencils are cut from 0.020" plastic and can be reused for multiple projects.

PRICE	PER S	TENCIL			
Letter Height	1-24	25-49	1-24	25-49	50+
1⁄2"	\$8.39	\$8.09	\$10.08	\$9.70	
3⁄4"	\$9.20	\$8.95	\$11.05	\$10.72	
1"	\$9.78	\$9.56	\$11.75	\$11.43	
1¼"	\$10.24	\$9.91	\$12.29	\$11.89	call for a
11⁄2"	\$13.10	\$12.41	\$14.15	\$13.45	quote
2"	\$14.93	\$14.34	\$17.90	\$17.22	quote
2 ½"	\$16.96	\$16.47	\$20.35	\$19.76	
31⁄2"	\$21.71	\$21.48	\$27.14	\$26.40	

12 oz. Spray Stencil Ink

- Permanent, quick-drying, weather-resistant ink
- Provides high-contrast marking on pipes and insulation
- Colors: Black, White, Blue, Red, Yellow and Green

Plenum-Rated Duct Markers

- Metalized self-adhesive labels tested to meet the requirements of E-84-03 "Standard Test Method" for surface burning characteristics of building materials
- Available with black text on metallic grey background
- Designed for use in plenums to help prevent the spread of smoke and gases in the event of a fire

EXHAUST AIR	Metallic Grey	92601	93601
INTAKE AIR	Metallic Grey	92602	93602
OUTSIDE AIR	Metallic Grey	92603	93603
RELIEF AIR	Metallic Grey	92604	93604
RETURN AIR	Metallic Grey	92605	93605
SUPPLY AIR	Metallic Grey	92606	93606
ARROW	Metallic Grey	92607	93607



TO ORDER List stencil legends required, specify character height needed and quantity.



Part #			
61101 + Co	olor	\$10.31	



TO ORDER Specify part number and quantity. Combine all for best price.

STOCK PRICING PER MARKER					
SIZE	1-49	50-99	100-249	250+	
2¼" x 13"	\$2.73	\$2.15	\$1.86	call for	
4" x 24 "	\$5.72	\$5.43	\$5.14	a quote	
2¼" x 6½"	\$1.36	\$1.08	\$0.95	call for	
4" x 12"	\$2.86	\$2.72	\$2.57	a quote	

Cable & Conduit Identification



MS-900 Conduit & MS-970 Coiled Conduit (orange background only)

		-		
	MS-900 Part	Numbers		MS-970
Stock legend	½" x 2 ½"	1" x 8"	2" x 9"	Part Numbers
110 VOLTS	70001	71001	72001	9780-
115 VOLTS	70002	71002	72002	9781-
120 VOLTS	70003	71003	72003	9782-
120/208 VOLTS	70004	71004	72004	9783-
208 VOLTS	70005	71005	72005	9784-
220 VOLTS	70006	71006	72006	9785-
230 VOLTS	70007	71007	72007	9786-
240 VOLTS	70008	71008	72008	9787-
277 VOLTS	70010	71010	72010	9788-
277/480 VOLTS	70011	71011	72011	9789-
440 VOLTS	70012	71012	73011	
480 VOLTS	70014	71014	72014	9790-
600 VOLTS	70016	71016	72016	9791-
4,160 VOLTS	70026	71026	72026	9792-
CONTROL	70027	71027	72027	9793-
DATA	70028	71028	72028	9794-
FIBER OPTIC CABLE	70029	71029	72029	9795-
FIRE ALARM	70030	71030	72030	9796-
LIGHTING	70017	71017	72017	9797-
POWER	70018	71018	72018	9798-
SECURITY	70025	71025	72025	9799-
SINGLE PHASE	70019	71019	72019	9696-
TELEPHONE	70031	71031	72031	9697-
THREE PHASE	70020	71020	72020	9698-

TO ORDER MS-900 - Select part number from chart above. MS-970 - Select part number, but add letter from chart at right that corresponds to pipe diameter

High-Performance Stainless Steel Cable Markers

Use laser etched #316 stainless steel strap-on cable markers for marine, chemical or high heat environments.

- Text is permanently etched into stainless steel
- Tags are strapped to cable using plastic or stainless steel cable ties

Size	1-24	25-99	100-249	250+
³ /8" x 2 ¹ /2"	\$3.83	\$3.70	\$3.56	
1⁄2" x 3"	\$4.15	\$4.01	\$3.87	Call for a quote
³ ⁄4" x 3 ¹ ⁄2"	\$4.46	\$4.31	\$4.14	Call for a quote
1"x 4"	\$4.88	\$4.73	\$4.59	

MS–900 Electrical System ID

Designed for labeling conduit, panel boxes, circuit breakers, cable trays and connections to equipment.

• Black text on orange labels provide a highly-visible warning of potential electrical hazards

Premium MS-900 material insures long-lasting durability

Size	1-49	50-99	100-249	250+
¹ /2" x 2 ¹ /2"	\$1.35	\$1.11	\$1.00	
1" x 8"	\$0.62	\$0.49	\$0.44	Call for a quote
2" X 9"	\$1.04	\$1.01	\$0.92	
NOTE: 1/2" x	21/2" labels a	e supplied/pr	iced ten markers	ner sheet

MS-970 Coiled **Conduit & Cable ID**



Designed to eliminate confusion of tightly packed conduit and cable.

- Markers quickly snap around conduit or cable, clearly identifying voltages or functions
- To indicate diameter of cable or conduit insert style letter after four digit part number

Style	Diameter	1-99	100 - 249	250 - 499	500+
A	1⁄2" - 1 "	\$2.42	\$2.30	\$1.98	
В	1 ¹ /8" - 2 ¹ /4"	\$3.16	\$3.03	\$2.59	Call for
С	2 ³ /8" - 3 ¹ /4"	\$6.11	\$5.93	\$4.67	
D	3 ³ /8" - 4 ¹ /2"	\$6.40	\$6.23	\$5.13	a quote
E	45/8" - 57/8"	\$6.76	\$6.54	\$5.41	

Designed for use in the process chemical industry and for outdoor applications. Five year guarantee is our promise that MS-995 markers will stand up to high heat, harsh chemicals and direct exposure to sunlight.



- Polyester/MS-1000 construction provides proven protection from sunlight and maximum resistance to acids and bases found in process operations
- Sub-surface printing and MS-1000 lamination protects graphics from damaging chemicals and sun fading
- Ideal for chemical process plants, pharmaceutical plants, pulp and paper mills, and upstream and downstream oil and gas facilities
- Precoiled markers install easily by wrapping completely around the pipe and affixing to themselves [not the pipe surface] with a MS-1000 sealing strip

Maxilar[™] Markers MS-995

- Service temperature range from -40° to 250° F
- Eliminates pipe surface preparation before installation
- Complies with ASME A13.1 "Scheme for the Identification of Piping Systems" standard with regard to color, marker size and letter height
- Markers for larger diameter pipe are secured by stainless steel straps
- Markers can be removed and reinstalled for re-insulation or repainting

MS-995



Pipe Diameter	Marker Style	Marker Width	Character Height	Marker Type	
³ /8" - ¹ /2"	тм	3"	1⁄4 "	Wrap Around	
⁵ /8" – 1"	Α	8 "	1⁄2"	Wrap Around	
1 ¹ /8" – 2 ¹ ⁄2"	В	8"	3⁄4"	Wrap Around	
2½ " - 4¾"	D	12"	1¼"	Wrap Around	
5" - 7 ⁷ /8"		12"	1¼"	Wrap Around	
8" – 10"	J	12"	1¼"	Wrap Around	
11" – 12"	K	12"	1¼"	Wrap Around	
13" – 15"	L	12"	1¼"	Wrap Around	
16" – 18"	Ν	12"	1¼"	Wrap Around	
8" and up	м	32"	2½ " - 3½"	Strap-on	

TO ORDER Complete the four digit part number for each legend using the letter indicating the pipe size. Example: BOILER FEED WATER for a 6" outside diameter pipe would have the part number 9941-E.

Combine total quantity of stock markers for best price.

MS-995 Maxilar[™] Markers

Designed for the process chemical industry and outdoor environments.

Styles Available

Coiled polyester/MS-1000 pipe markers are available in ten standard sizes to fit pipes with overall outside diameters of 3/8" through 18" [including insulation thickness].

MS-995 Markers are designed to meet ASME A13.1-1996 "Scheme for the Identification of Piping Systems" except styles J,K,L & N, which do not

meet the ASME A13.1-1996 standard regarding marker size and letter height.

Note: Coiled, wrap-around markers can be custom made for any diameter pipe. Call for a quote.

Style M:

For piping 8" and larger, the $4\frac{1}{2}$ " x 33" marker consists of a MS-1000 laminated legend label applied to a durable chemical & weather resistant carrier. Markers are strapped onto the pipe using stainless steel straps. Meets ASME A13.1

See the Stainless Steel Straps and Locking Tools on page 25

Style	1 - 49	50 - 99	100 - 249	250+
ТМ	\$2.66	\$2.58	\$2.45	
A	\$4.93	\$4.87	\$4.81	
В	\$5.60	\$5.52	\$5.43	
D	\$9.20	\$9.08	\$8.93	
E	\$11.17	\$11.11	\$11.02	call for
J	\$15.44	\$15.33	\$15.18	a quote
К	\$19.29	\$19.14	\$18.93	
L	\$23.27	\$23.11	\$22.97	
N	\$28.73	\$28.57	\$28.45	
M [STRAP-ON]	\$17.81	\$17.71	\$17.54	

Legend	Color	Part
ACID	Yellow	9902
ALUM	Yellow	1006
AMINE	Yellow	1054
AMMONIA	Yellow	1005
BIOCIDE	Yellow	1008
BLACK DYE	Yellow	1009
BLACK LIQUOR	Yellow	9903
BLEACHED STOCK	Yellow	9904
BLUE DYE	Yellow	1010
BOILER BLOWDOWN	Yellow	1011-
BOILER DRAIN	Yellow	1012-
BOILER FEEDWATER	Yellow	
BREATHING AIR	Blue	1102-
BROKE	Yellow	9905
BROWN STOCK	Yellow	9906
BUTADIENE	Yellow	1014
BUTANE	Yellow	1013
BUTENE	Yellow	1055
CALCIUM CARBONATE	Yellow	9942
CATALYST	Yellow	1015
CAUSTIC	Yellow	9907
CAUSTIC SODA	Yellow	9943
CHILLED WATER RETURN	Green	1016
CHILLED WATER SUPPLY	Green	1017-
CHLORINE	Yellow	9908
CHLORINE DIOXIDE	Yellow	9909
CIP RETURN	Yellow	1142-
CIP SUPPLY	Yellow	1143
CITY WATER	Green	1140
CLARIFIED WHITE LIQUOR	Yellow	1018-
CLEAN CONDENSATE	Yellow	1019
CLOUDY WHITE WATER	Yellow	1020
COATED BROKE	Yellow	1021-
COATING SLURRY	Yellow	1056
COLD WATER COMPRESSED AIR	Green	1141-
	Blue	1022
COMPRESSED AIR	Yellow	1057
CONDENSATE	Yellow	9944
CONDENSER WATER RETURN	Green	1023
CONDENSER WATER SUPPLY	Green	1024
COOLING WATER	Green	1025
COOLING WATER RETURN	Green Green	1106
COOLING WATER SUPPLY CONTAMINATED CONDENSATE		1107-
CRUDE OIL	Yellow	1028
DEFOAMER	Yellow Yellow	
		9911-
DEMINERALIZED WATER DILUTION WATER	Green	1027- 9948
DRAIN	Yellow Yellow	1029
DRINKING WATER		1029
	Green	
EFFLUENT ETHYLENE	Yellow Yellow	1031- 1032-
ETHYLENE GLYCOL	Yellow	
		1109-
FEED STOCK	Yellow	1033
FILTERED WATER FILTRATE	Green Yellow	9914 9913
FIRE PROTECTION WATER	Red Yellow	1034
		1035
FLOOR DRAIN	Yellow	1036

FLUSH WATER FOUL CONDENSATE FRESH WATER FUEL GAS FUEL OIL #2 FUEL OIL #6 FUEL OIL GAS GLYCOL **GLYCOL RETURN** GLYCOL SUPPLY GREEN LIQUOR GROUNDWOOD HARDWOOD STOCK HEATING WATER RETU HEATING WATER SUP HEAVY BLACK LIQUOR HEXANE HI PRESS CONDENSA HI PRESS GAS HI PRESS SHOWER WA HI PRESS STEAM HOT GAS HOT WATER HOT WATER RETURN HOT WATER SUPPLY HYDRAULIC OIL HYDROCHLORIC ACID HYDROGEN HYDROGEN PEROXIDE HYDROGEN SULFIDE **IGNITER GAS** INSTRUMENT AIR INSTRUMENT NITROG ISO-BUTANE ISO-BUTYLENE KEROSENE LO PRESS CONDENSA LO PRESS STEAM LUBE OIL LUBE OIL RETURN LUBE OIL SUPPLY MAKEUP WATER MEDIUM PRESS CONDI MEDIUM PRESS STEA METHANOL MILL AIR MILL WATER MTBE NATURAL GAS NITROGEN NON CONDENSABLE NON POTABLE WATER NORMAL BUTANE OFF GAS OVERFLOW OXYGEN PLANT AIR

Legend

	Color	Part#	Legend	Color	Part#
	Yellow	1061-	PLANT WATER	Green	9925-
	Yellow	9949-	POTABLE WATER	Green	9968-
	Green	1037-	PROCESS WATER	Green	1069-
	Yellow	1038-	PROCESS WATER RETURN	Green	1149-
	Yellow	9950-	PROCESS WATER SUPPLY	Green	1150-
	Yellow	1039-	PROPANE	Yellow	9971-
	Yellow	1040-	PULP	Yellow	9962-
	Yellow	1144-	QUENCH WATER	Yellow	1129-
	Yellow	1042-	RAFFINATE	Yellow	1070-
	Yellow	1111-	RAW WATER	Green	9963-
	Yellow	1112-	RED DYE	Yellow	9972-
	Yellow	9915-	REJECTS	Yellow	9927-
	Green	1041-	RELIEF	Yellow	9973-
	Yellow	9916-	RETENTION AID	Yellow	9974-
URN	Yellow	1145-	ROOF DRAIN	Green	9975-
PLY	Yellow	1146-	SALTCAKE	Yellow	9976-
R	Yellow	9951-	SANITARY DRAIN	Green	1131-
	Yellow	1043-	SANITARY SEWER	Green	1130-
TE	Yellow	9947-	SEAL WATER	Green	9928-
	Yellow	1113-	SHOWER WATER	Yellow	9977-
ATER	Yellow	1045-	SIZE	Yellow	9978-
	Yellow	1114-	SOAP	Yellow	9979-
	Yellow	1115-	SODA ASH	Yellow	9980-
	Yellow	1044-	SODIUM CHLORATE	Yellow	9954-
	Yellow	1116-	SODIUM HYDROXIDE	Yellow	9955-
	Yellow	1117-	SOFT WATER	Green	1151-
	Yellow	9917-	SOFTWOOD STOCK	Yellow	9929-
`	Yellow	1046-	STARCH	Yellow	9981-
,	Yellow	1040-	STEAM	Yellow	9983-
E					
E	Yellow	1048-	50# STEAM	Yellow	9986-
	Yellow	1049-	150# STEAM	Yellow	9990-
	Yellow	1050-	STEAM CONDENSATE	Yellow	1152-
	Blue	9918-	STOCK	Green	9930-
GEN	Blue	1118-	STORM DRAIN	Green	1153-
	Yellow	1051-	STORM SEWER	Green	1154-
	Yellow	1052-	STORM WATER	Green	1071-
л тг	Yellow	1062-	STRONG BLACK LIQUOR	Yellow	9959-
ATE	Yellow	9945-	SULFUR DIOXIDE	Yellow	9932-
	Yellow	1120-	SULFURIC ACID	Yellow	9931-
	Yellow	9920-	TALL OIL	Yellow	9995-
	Yellow	1147-		Yellow	9996-
	Yellow	1148-	TOWER WATER RETURN	Green	9997-
	Green	1053-	TOWER WATER SUPPLY	Green	9998-
ENSATE	Yellow	9946-		Green	9999-
M	Yellow	1156-	TURPENTINE	Yellow	1001-
	Yellow	9952-	UNBLEACHED STOCK	Yellow	9960-
	Blue	9921-	UTILITY WATER	Yellow	1072-
	Green	9922-	VACUUM	Yellow	9933-
	Yellow	1063-	VENT	Yellow	9934-
	Yellow	9923-	WASTE OIL	Yellow	1073-
	Blue	9964-	WASTE WATER	Yellow	1002-
GAS	Yellow	9953-	WATER	Green	1159-
R	Yellow	1066-	WEAK BLACK LIQUOR	Yellow	9937-
	Yellow	1067-	WEAK WASH	Yellow	9961-
	Yellow	1068-	WELL WATER	Green	1155-
	Yellow	9965-	WHITE LIQUOR	Yellow	9939-
	Green	1074-	WHITE WATER	Yellow	9940-
	Blue	9924-	YELLOW DYE	Yellow	1003-

Custom MS-995

MS-995 Maxilar[™] Markers

FROM AZ-C-30 TO ATMOSPHERE

Coiled polyester pipe markers are available in ten standard sizes to fit pipes with overall outside diameters of 3/8" through 18" [including insulation thickness].

NOTE: Coiled wrap around markers can be made for any diameter of pipe. Specify pipe diameter when ordering

TOH MIXTURE

Marker Style	Pipe Diameter	Marker Style	Pipe Diameter
тм	³ /8" — ¹ /2"	J	8" – 10"
А	¹ ⁄2" – 1"	К	11" – 12"
В	1 ¹ /8" – 2 ¹ ⁄4"	L	13" – 15"
D	2 ¹ /2" – 4 ³ /4"	N	16" – 18"
E	5" – 7 ⁷ /8"	M*	8" and up

NOTE: Styles J,K,L,N do not meet the ASME A13.1-1966 standard regarding marker size and letter height.

STYLE M: For piping 8" and larger, the 41/2" x 33" marker consists of legend label applied to a durable chemical & weather resistant carrier. Markers are strapped onto the pipe using stainless steel straps. Meets ASME A13.1-1996.



TO ORDER CUSTOM MS-995 MARKERS Fax or e-mail a list of all markers needed Include marker style, color, and legend information. Determine the price per marker by referring to the "Custom Pricing Per Marker" table. Combine total quantity of markers for best price.

Customized MS-995 Maxilar™ Markers

Designed for the process chemical industry to relate P&IDs to the actual piping configuration through the use of specialized markers and tags.

- Reduce time spent to trace piping, especially in emergencies
- Familiarize new personnel with plant piping layouts quickly
- Significantly reduces the possibility of human errors
- Identify processes and improve overall efficiency for maintenance and operations
- Guaranteed for five years; Maxilar[™] Markers eliminate the need for costly relabeling

Choose the options that best suit your needs - include the following:

- Pipe Contents • Line Numbers
- Lines Origins [From] and P&ID Drawing Numbers Destination [To]

Style	1-9	10-49	50-99	100+
ТМ	\$4.84	\$4.22	\$3.66	
А	\$5.96	\$5.91	\$5.36	
В	\$6.54	\$6.49	\$5.93	
D	\$10.72	\$10.66	\$10.06	
E	\$12.10	\$12.01	\$11.52	call for
J	\$16.96	\$16.87	\$16.29	a quote
К	\$20.96	\$20.90	\$20.31	aquote
L	\$25.41	\$25.34	\$25.03	
Ν	\$31.55	\$31.43	\$30.64	
M [STRAP-ON]	\$18.69	\$18.61	\$18.36	

MS-995 High-Temperature Stainless Steel Pipe Marker

Use stainless steel markers on piping that has a surface temperature range from 250° F to 350° F.

- Markers consist of a MS-995 label applied to a flat stainless steel carrier
- Stand-off brackets hold the printed marker away from the heat of the pipe's surface
- Special heat-reducing spacers prevent the heat from affecting the printed legend
- Markers come complete with 2 stainless steel brackets, spacers and 2 stainless steel straps for easy installation

PRICING PE	R MARKER		
Style	1-9	10-49	50+
2¾" x 18"	\$30.82	\$30.08	
4¼" x 36"	\$61.99	\$60.06	call for a quote

Pre-cut Stainless Steel Straps

Part #	Pipe Diam
15710	8" thru 10"
15711	11″ thru 14′
15712	15″ thru 16'

Locking Tool for 35" – 60" Strap

easy to use.

15715

Coil of Strapping

Stainless Steel **Banding Tools** and Mounting **Brackets**

15730 [200']

Locking Clips for Strap

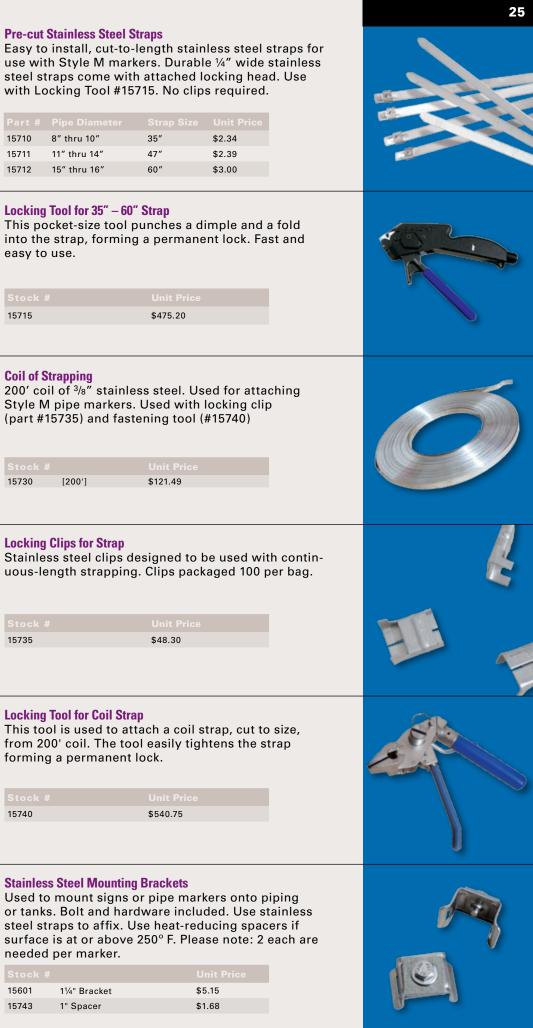
15735

Locking Tool for Coil Strap forming a permanent lock.

15740

needed per marker.

Stock #	
15601	1¼" Brack
15743	1" Spacer



Ammonia Refrigeration

Identification



Stand	ard IIAR Abbreviations			
Part #	Legend	Abbv	State	Pre
3017	BOOSTER DISCHARGE	BD	VAP	LOV
3001	CONDENSER DRAIN	CD	LIQ	HIG
3002	DEFROST CONDENSATE	DC	LIQ/VAP	HIG
3018	ECONOMIZER SUCTION	ES	VAP	LOV
3003	EQUALIZER	EQ	VAP	HIG
3019	FOUL GAS	FG	VAP	LOV
3005	HIGH PRESSURE LIQUID	HPL	LIQ	HIG
3006	HIGH STAGE DISCHARGE	HSD	VAP	HIG
3007	HIGH STAGE SUCTION	HSS	VAP	LOV
3008	HIGH TEMP RECIRCULATED LIQUID	HTRL	LIQ	LOV
3009	HIGH TEMP RECIRCULATED SUCTION	HTRS	LIQ/VAP	LOV
3020	HIGH TEMP SUCTION	HTS	VAP	LOV
3021	HOT GAS	HG	VAP	HIG
3004	HOT GAS DEFROST	HGD	VAP	HIG
3022	LIQUID DRAIN	LD	LIQ	LOV
3023	LIQUID INJECTION COOLING	LIC	LIQ	HIG
3024	LIQUID TRANSFER	LT	LIQ	LOV
3010	LOW STAGE SUCTION	LSS	VAP	LOV
3011	LOW TEMP RECIRCULATED LIQUID	LTRL	LIQ	LOV
3012	LOW TEMP RECIRCULATED SUCTION	LTRS	LIQ/VAP	LOV
3025	LOW TEMP SUCTION	LTS	VAP	LOV
3026	MEDIUM TEMP RECIRCULATED LIQUID	MTRL	LIQ	LOV
3027	MEDIUM TEMP RECIRCULATED SUCTION	MTRS	LIQ/VAP	LOV
3028	MEDIUM TEMP SUCTION	MTS	VAP	LOV
3029	PUMP OUT	РО		
3030	PURGE LINE	PL	VAP	HIG
3013	RELIEF VENT	RV		
3014	RELIEF VENT	RV	VAP	HIG
3015	THERMOSYPHON RETURN	TSR	LIQ/VAP	HIG
3016	THERMOSYPHON SUPPLY	TSS	LIQ	HIG

TO ORDER STOCK ITEMS-Complete the four-digit part number for each legend followed by style letters indicating pipe size. Example: The part number of a marker "HIGH PRESSURE LIQUID" for a 4" outside diameter pipe would be "3005–ABL".

MS-900 Self-Adhesive Ammonia Refrigeration Pipe Markers

Indoor application that is ideal for cold-storage areas where pipe surface temperature is above 35° F.

- Adheres well to pipe and insulation with limited surface preparation
- Fast turn-around time with off-the-shelf delivery on standard legends
- Convenient scored arrow eliminates the need to determine flow direction at time of order

AS-900 SELF ADHESIVE PIPE MARKERS

Style	Pipe Size	Marker Size	1-49	50-99	100-249	250+		
AAL	¾" thru 2 ³ /8"	1" x 12"	\$3.28	\$3.16	\$2.67	call		
ABL	21⁄2" thru 77/8"	2¼ x 16"	\$4.15	\$4.06	\$3.87	for a		
ACL	8" thru 10"	4" x 24"	\$5.40	\$5.26	\$4.87			
ADL	over 10"	4" x 32"	\$6.74	\$6.60	\$6.18	quote		
* includes arrow								

Also available in Spanish or French. Custom legends are available at no extra charge.

Ask for MS-1000 over-laminate for markers that need protection from UV fading and chemicals commonly used in process washdowns. Please call for a quote.



Component Markers

(yellow background only)

- Complete the Ammonia identification package by labeling the process equipment. MS-900 self-adhesive markers meet the IIAR Bulletin #114 requiring 2½" letter heights.
- Custom sizes, legends and pressure designations available.

COMPONENT MARKE

Legend	Size	Part #	Unit Price
COMPRESSOR		65548	
EVAPORATOR	4" x 32"	65549	
HI PRESS RECEIVER		65550	
HI TEMP ACCUMULATOR		65551	
INTERCOOLER		65552	\$7.12
INTERMEDIATE RECIRCULATOR		65553	\$7.12
LO PRESS RECEIVER		65554	
PROCESSING HOT GAS		65555	
PROCESSING RECIRCULATOR		65556	
SUCTION ACCUMULATOR		65557	

MS-995 Maxilar[™] Polyester/ MS-1000 Pipe Markers

Maximum-performance markers stand up to high heat, harsh chemicals and direct exposure to sunlight.

- Polyester/MS-1000 construction provides proven protection from the effects of direct sunlight
- Sub-surface printing and MS-1000 lamination protects graphics from damaging chemicals used in process washdowns
- Service temperature range from -40° F to 250° F
- Eliminates need for pipe surface preparation
- Markers can be removed for re-insulation or re-painting
- Precoiled markers install easily by wrapping completely around pipe and affixing to themselves [not the pipe surface] with a MS-1000 sealing strip.
- Styles AB, AD, & AE MS-995 Maxilar[™] coiled markers are for outdoor piping and for existing facilities where the surface temperature of the pipe is between -40° F and 250° F
- The 2¾" x 18" style AMF and 4½" x 33" style AM markers consist of a legend label applied to a durable chemical & weather resistant carrier. Markers are strapped to larger diameter pipes using stainless steel straps. They are designed for easy installation and high visibility on rooftop or elevated piping.
- For pipe surface temperature 250°F 350°F use stainless steel markers on page 24

Style	Pipe Size	1-49	50- 99	100-249	250 +
AB	³ /4" – 2 ¹ /2"	\$6.45	\$6.21	\$6.04	
AD	2 ³ ⁄4" – 4 ³ ⁄4"	\$10.21	\$10.00	\$9.74	call
AE	5" – 7 ⁷ /8"	\$13.07	\$12.82	\$12.58	for a
AMF	5" – 7 ⁷ /8"	\$10.21	\$10.00	\$9.74	quote
AM	8" and over"	\$17.64	\$17.55	\$17.38	

Styles AB, AD, AE are coiled markers. Styles AMF and AM are strap on. Include insulation in your pipe measurements.



STANDARD IIAR ABBREVIATIONS				STANDARD	
-----------------------------	--	--	--	----------	--

Part #	Legend	Abbv	State	Press
3101	BOOSTER DISCHARGE	BD	VAP	LOW
3102	CONDENSER DRAIN	CD	LIQ	HIGH
3116	DEFROST CONDENSATE	DC	LIQ/VAP	HIGH
3118	ECONOMIZER SUCTION	ES	VAP	LOW
3117	EQUALIZER	EQ	VAP	HIGH
3119	FOUL GAS	FG	VAP	LOW
3104	HIGH PRESSURE LIQUID	HPL	LIQ	HIGH
3105	HIGH STAGE DISCHARGE	HSD	VAP	HIGH
3106	HIGH STAGE SUCTION	HSS	VAP	LOW
3107	HIGH TEMP RECIRCULATED LIQUID	HTRL	LIQ	LOW
3108	HIGH TEMP RECIRCULATED SUCTION	HTRS	LIQ/VAP	LOW
3120	HIGH TEMPERATURE SUCTION	HTS	VAP	LOW
3121	HOT GAS	HG	VAP	HIGH
3103	HOT GAS DEFROST	HGD	VAP	HIGH
3122	LIQUID DRAIN	LD	LIQ	LOW
3123	LIQUID INJECTION COOLING	LIC	LIQ	HIGH
3124	LIQUID TRANSFER	LT	LIQ	LOW
3109	LOW STAGE SUCTION	LSS	VAP	LOW
3110	LOW TEMP RECIRCULATED LIQUID	LTRL	LIQ	LOW
3111	LOW TEMP RECIRCULATED SUCTION	LTRS	LIQ/VAP	LOW
3125	LOW TEMPERATURE SUCTION	LTS	VAP	LOW
3126	MEDIUM TEMP RECIRCULATED LIQUID	MTRL	LIQ	LOW
3127	MEDIUM TEMP RECIRCULATED SUCTION	MTRS	LIQ/VAP	LOW
3128	MEDIUM TEMP SUCTION	MTS	VAP	LOW
3129	PUMP OUT	PO		
3130	PURGE LINE	PL	VAP	HIGH
3112	RELIEF VENT	RV	VAP	HIGH
3113	RELIEF VENT	RV		
3114	THERMOSYPHON RETURN	TSR	LIQ/VAP	HIGH
3115	THERMOSYPHON SUPPLY	TSS	LIQ	HIGH

Ammonia Refrigeration

Identification

1	2	2	3	4	5
			AMMONIA		

Ammonia Refrigeration Marker Layout

Each marker has five information parts

- 1 Ammonia piping abbreviation section
- 2 Physical State: LIQ [Orange] and/or VAP [Blue]
- 3 Ammonia: black letters on yellow background
- Pressure Level: LOW [70 PSIG or less] = Green HIGH [greater than 70 PSIG] = Red
- 5 Directional arrow [printed on marker] scored

SECTION 1 - IIAR Approved Abbreviation	S [Partial List]
Legend	Abbv
Condenser Drain	CD
Defrost Condensate	DC
Hot Gas Defrost	HGD
High Pressure Liquid	HPL
Highstage Discharge	HSD
High Stage Suction	HSS
High Temp Recirculated Liquid	HTRL
High Temp Recirculated Suction	HTRS
Low Temp Recirculated Liquid	LTRL
Low Temp Recirculated Suction	LTRS
Relief Vent	RV
Thermosyphon Return	TSR
Thermosyphon Supply	TSS
SECTION 2 - Physical State Abbreviation	1
Liquid	LIQ
Vapor	VAP
SECTION 3 - Ammonia	
SECTION 4 - Pressure level abbreviation	
Low [70 PSIG and under]	LOW
High [over 70 PSIG]	HIGH
SECTION 5 - Flow Direction Arrow	
Left Pointing Arrow	SCORED
Right Pointing Arrow	SCORED

Laser Etched Stainless Steel Equipment Tags

For use in: Food Processing Plants, Oil and Gas Facilities, Power Generating Stations and Marine and Offshore.

- #316 Stainless Steel
- Standard tags have round corners and mounting holes for ease of installation
- Black text is laser-etched for visibility and durability

IDEAL FOR:

- Equipment subject to frequent washdowns or chemical cleanings
- Nameplates on machinery that continually run at high temperatures
- Valve or instrument identification in highly-corrosive or caustic environments

•	Bar-coded	asset ta	gs
---	-----------	----------	----



Tag Size	Unit Price
1" x 3"	\$6.04
2" x 4"	\$6.41
4" x 6"	\$16.45

TO ORDER Specify tag wording, size, color and quantity of each tag. If this information is available electronically simply email us the file.

MS-215 Max-Tek[™] Valve Tags

The highest-quality tags available for marking valves, instrumentation and equipment.

- Rigid, high-performance 125 mil. tags protect the graphics between two layers of chemically-resistant plastic
- Complete printing flexibility each tag can include multiple lines of text, equipment number, operation and maintenance instructions, safety precautions, or other critical information.
- Service temperature range: -40° F to 200° F
- Background colors: Yellow, Green, Red, Blue, White, Black, Orange
- Legend colors are available in either Black or White
- Each tag comes with stainless steel grommets
- Custom colors are available
- Available in a 30 mil. flexible version for mounting on curved surfaces
- 5-year outdoor life

Tag Size	1-49	50-99	100-249	250 +
2" Round	\$3.78	\$3.69	\$3.62	
2" Square	\$3.78	\$3.69	\$3.62	
2" x 4"	\$5.30	\$5.20	\$5.06	Call for a quote
1½" x 5"	\$6.05	\$5.96	\$5.88	





Ammonia Refrigeration

Identification





FOOD PROCESSING PLANT ENGINE ROOM 3A ORIGINAL REFRIGERATION SYSTEM (1993) ENGINE ROOM 3A (2001)

ENGINEER: XYZ CORPORATE ENGINEERING PSM APPROVED CONTRACTOR: AB&C REFRIGERATION INVENTORY SUMMARY APRIL 27, 2003 (45,000 POUNDS) OF AMMONIA (ENGINE ROOM 3& 3A)

(45,000 POUNDS) OF AMMONIA (ENGINE ROOM 3 & 3A) AN EMEGGENCY STOP BUTTON SHUTS DOWN ALL REFRIGERATION OMPRESSORS AND LIQUID PUMPS. THIS STOP BUTTON DOES NOT TURN NT THE EXHAUST FAN SYSTEM. EXHAUST FAN SYSTEM HAS ONE FAN (EF #9) RATED AT (14.347 CAM) THAT RUNG CONTINUOUSLY.

EMERGENCY TELEPHONE NUMBERS

LOCAL UTILITIES

STATE EMERGENCY RESPONSE COMMITTEE	TYPE	LUBRICANTS	TELEPHONE#
	TYPE	LUBRICANTS	TELEPHONE#
INVIRONMENTAL PROTECTION AGENCY			

TO ORDERTAGS - Fax or e-mail your list of tag legends.Combine all tags for best pricing. Specify the number and
location of stainless steel grommets.INFORMATIONAL SIGNS - Specify quantity, size, color and
customer specific information needed.

Photoluminescent [glow-in-the-dark] MS-215 Max-Tek™ Tags

Used to label valves or equipment that would be hard to find or identify in the event of power failure.

- Low light location tags are constructed of the same durable materials as our other MAX-TEK[™] tags and the printed background glows for up to six hours in darkness.
- Available in two thicknesses:
 1) MS-215 R [125 mil] for rigid mounting applications
 2) MS-215 F [30 mil] for mounting to curved surfaces.
- Tags can be mounted using heavy duty adhesive (page 40) or hung with stainless steel fasteners (page 35)

Size	1-49	50-99	100-249	250+
2" Round	\$4.96	\$4.81	\$4.62	
2" x 2"	\$4.96	\$4.81	\$4.62	call for a
1" x 3"	\$5.96	\$5.69	\$5.41	quote
2" x 4"	\$6.72	\$6.47	\$6.22	

MS-215 Max-Tek[™] PSM Approved Contractor Informational Signs

- Control box for fire departments
- Authorized installation and repair contractors
- King valve locations
- Safety warnings
- System charges
- Use a permanent marker to write in lubricant and inventory information; text is easily removed with isopropyl alcohol when lubricant and/or inventory information changes.

Sign Size	Unit Price
16" x 10"	\$42.90
24" x 16"	\$106.68
36" x 24"	\$253.16

TO ORDER AMMONIA IDENTIFICATION SIGNS -Specify both the part number and quantity desired. FLOW DIAGRAMS - E-mail drawing file and quantity.

MS-215 Max-Tek™ Ammonia Identification Signs

Specifically designed to provide a clear hazard warning for employees in food processing plants, mills and cold-storage facilities.

- Follows the NFPA system to denote the severity of hazard with regard to flammability, reactivity, health and specific chemical characteristics.
- Includes information about physical and health hazards, as well as proper safety and first aid procedures [in accordance with OSHA 29 CFR1910.1200]
- Wall chart sign provides a detailed explanation of ammonia marker layout and abbreviations helpful in training new personnel.
- Colors: Red, Blue, Yellow and Black on a White background.

Part #	Size	Unit Price
65521	24" x 12"	\$68.57
65547	20" x 12"	\$59.66

MS-215 Max-Tek™ Ammonia System Flow Diagrams

Display ammonia system diagrams in each engine room or in process areas near equipment.

- Signs are an excellent training aid
- Available in 3 sizes

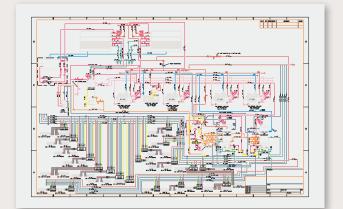
Sign Size	Unit Price
11" x 17"	\$59.38
20" x 24"	\$145.53
24" x 36"	\$303.87

©AMMONIA REFRIGERATION MARKER LAYOUT DETAILS LTRS AMMONIA →
100 1 2 3 4 5
Each warker has five information parts: 1. Annual status determines making 2. Present lines (All Chanud or Without 3. Annual lines (All Chanud or Without 4. Change and the status of the status of the each space data the IN PEORed 8. Oxford of the status of the Status of the 8. Oxford of the status of the Status of the 8. Oxford of the status of the Status of the Status of the 8. Oxford of the status of the Status of the Status of the 8. Oxford of the Status of the Status of the Status of the Status of the 8. Oxford of the Status of
SECTION 1 INVERTICATION ADDRESSATIONS
ECCURT INCIDENT 44 ECCURT INCID A4 ECCURT IN
SECTION 2 PRIVACAL STATE ABBREVIATION USE USE VOID Note long to toth lipsif and report
SECTION 3 AMMONIA
SECTION 4 PRESSARE LEVEL ASSREVATION USE (Section 10 Marc) Value High (Section 10 Marc) Value
SECTION 5 ARROW TO SHOW FLOW DIRECTION
C C

Wall Chart Sign Part # 65547



Ammonia Tank & Vessel Sign Part # 65521





MS–215 Max-Tek™ Tags

Constructed of printed legends sealed between two layers of chemically-resistant plastic. This sealed construction offers excellent resistance to chemicals, abrasion and the fading effects of the sun. Tags are available in two thicknesses: MS-215 R [125 mil] for rigid requirements and MS-215 F [30 mil] flexible. For mounting signs on curved surfaces, we recommend the flexible construction. Use construction adhesive for secure installation (see page 40).

- Highest quality tag available
- For marking valves, instrumentation and equipment
- High-performance tags protect graphics from environmental conditions both indoor and outdoor
- Complete printing flexibility each unique tag can include multiple lines of text, equipment number, operation and maintenance instructions, safety precautions, or other critical information
- Background colors: Yellow, Green, Red, Blue, White, Black or Orange
- Legend Colors: Black or White
- Each rigid tag comes with stainless steel grommets (as required)
- Also available: custom colors and sizes, double sided tags, bar-coding, photoluminescent material, and reflective material

Material: MS-215 Tags

Service Temperature Range: Water Resistance Outdoor Durability UV-Resistance Abrasion Resistance

ge: -40° F to 200° F Excellent Minimum 5 years Excellent Excellent

Chemically-resistant to strong acids and bases

TO ORDER MAX-TEK[™] TAGS OR SIGNS - Specify tag or sign wording, size, color, rigid or flexible, and quantity of each tag. If this information is available electronically, simply e-mail us the file.

PRICE PER TAG

	Size	1 - 49	50 - 99	100 - 249	250 +
	11⁄2" Round	\$3.31	\$3.23	\$3.04	
	1½" Square	\$3.31	\$3.23	\$3.04	
	2" Round	\$3.78	\$3.69	\$3.62	
	2" Square	\$3.78	\$3.69	\$3.62	call for
	1" x 3"	\$4.73	\$4.63	\$4.36	a quote
	2" x 3"	\$5.04	\$4.91	\$4.67	aquote
	2" x 4"	\$5.30	\$5.20	\$5.06	
	3" x 6"	\$7.04	\$6.88	\$6.77	
	4" x 8"	\$10.43	\$10.21	\$10.03	

TO ORDER TAGS & SIGNS - Specify quantity of each tag or sign. Determine legend, letter height, size, colors, whether you need adhesive backing or drilled mounting holes. For quicker delivery e-mail us your list.

Engraved Plastic Equipment Tags & Signs

Bright, durable tags for labeling pumps, fans, air handling units and other equipment.

- Engraving provides high contrast between letter color and background color for easy visibility
- Excellent for in-house maintenance programs; use to verify machinery numbers shown on work orders, reducing costly errors and accidental shutdowns
- Ideal for providing building graphics and door signs
- For indoor applications (for outdoor applications see pages 32 and 40-45, MS-215 Max-Tek[™] Tags & Signs)
- Standard tags are engraved on 1/16" plastic stock with mounting holes or adhesive backing [1/8" thick, 3 ply, or phenolic material is also available]
- Colors available: Black, Green, Red, and Blue with White letters; Yellow, Orange and White with Black letters
- Custom colors available; Yellow with Green letters

Engraved Plastic Valve & Instrument Tags

For color-coding valves or instrumentation.

- Excellent visibility
- Standard tags are engraved on 1/16" plastic
- Colors available: Black, Green, Red, and Blue with White letters; Yellow and White with Black letters
- Standard sizes: 1½", 2", 3", and 4" round, square or triangle shapes

Size	1 - 99	100 - 249	250 +
11⁄2"	\$1.49	\$1.28	
2"	\$2.00	\$1.61	call for
3"	\$4.22	\$3.79	a quote
4"	\$5.62	\$5.50	

CYBEREX SOURCE B

PRICE PER INDIVIDUAL ENGRAVED TAG/SIGN

Size	1 - 10	11 - 49	50 +
³ ⁄4" x 2 ¹ ⁄2"	\$2.49	\$2.25	
1" x 2 ¹ /2"	\$3.45	\$3.15	
1" x 3"	\$4.79	\$4.27	
1½" x 4"	\$5.71	\$5.16	call for
2" x 4"	\$6.73	\$6.09	a quote
2" x 6"	\$6.87	\$6.24	
2" x 8"	\$7.30	\$6.81	
4" x 6"	\$7.93	\$7.58	





TOP	LINE SERVICE		
[NONE]	Numbers Only	FP	Fire Protection
AIR	Air	GAS	
снw	Chilled Water	HTG	Heating
CHWR	Chilled Water Return	HHWR	Heating Hot Water Return
снws	Chilled Water Supply	HHWS	Heating Hot Water Supply
COND	Condensate		
CW	Cold Water	HWR	Hot Water Return
CWR	Cold Water Return	HWS	
cws	Cold Water Supply	HVAC	HVAC
DCW	Domestic Cold Water	PLBG	Plumbing

TO ORDER TAGS - Fax, e-mail or call in your list of tag legends. Combine all tags for best pricing.

Brass Valve Tags

- \bullet 20-gauge brass tags are available from stock in $1^{1\!/_2}\!''$ and 2" diameters and $1^{1\!/_2}\!''$ and 2" squares
- Each tag is stamped and black-filled with 1/4" service indicator on the top line and $\frac{1}{2}$ " numbers below
- Number sequences from 001 thru 999 for all legends are available as stock
- Packaged in sets of 25 consecutive numbers
- Tags can be customized (please call for a quote)

Tag size/shape	1-100	101-250	251+
11⁄2" Round	\$0.93	\$0.91	
11⁄2" Square	\$1.05	\$1.01	call for a
2" Round	\$1.45	\$1.39	quote
2" Square	\$1.45	\$1.39	

Tag size/shape	1-99	100-249	250+
11⁄2" Round	\$0.55	\$0.53	
1½" Square	\$0.55	\$0.53	call for a
2" Round	\$0.87	\$0.85	quote
2" Square	\$0.87	\$0.85	

Note: All top-line legends ordered in sequence of 25 consecutive tags qualify for stock pricing even if they are different than legends shown. For longer number sequences, custom legends or different size tags, call for a quotation.

Valve Tag Fasteners & Accessories

1) Jack Chain

- Durable chain for fastening valve tags
- Packed 50 feet / box to hang approximately 60 tags

Stock number	Price / box
15760 [#16 solid brass]	\$37.28
15761 [304 stainless steel]	\$77.33

2) Bead Chain

• Flexible chain in 41/2" lengths including locking link • 100 lengths per bag

Stock number	Price / bag
15765 [#6 Brass]	\$18.01
15766 [304 stainless steel]	\$29.82

3) "S" Hooks

- Sturdy easy-to-close hooks for attaching valve tags
- 100 hooks per bag
- 1¹/₄" Brass or 1" Stainless Steel

Stock number	Price / bag
15770 [Solid brass]	\$22.31
15767 [304 stainless steel]	\$52.40

4) Lead Meter Seals

- Fast, permanent way to attach valve tags
- Supplied in 10" lengths • 100 lengths per pack

Too lengths per pack				
Stock number	Price / Pack			
15795 [Copper]	\$25.80			
15797 [Stainless Steel]	\$28.94			

5) Zinc Snap Hooks

• Easy open/close snap hooks for valve tags • 100 21/2" hooks per box

100 272	nooks per box	
Stock num	iber	Price / Box
15798		\$26.96

6) 8" Nylon Tag Ties

• Simple, quick way to attach valve tags

Too ties per bag	
Stock number	Price / bag
15785	\$17.17

7) Valve Chart Frame

• Aluminum frame holds 81/2" x 11" valve chart

- Plastic lens included; glass lens available
- Durable and easy to install

Stock number	Price / each	
15790	\$20.85	

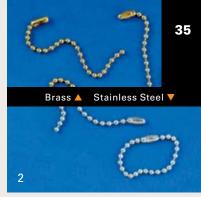
8) Sealing Press -- . .

15747

Iool for sealing lead meter seals				
Stock number	Price / tool			
15796	\$81.22			
9) Stainless Steel Swage Sleeves	5			
• 100 per bag • Type 316 stainless				
Stock number	Price / bag			
Stock number 15746	Price / bag \$129.83			
	•			
15746	\$129.83			

\$94.82

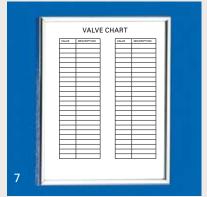


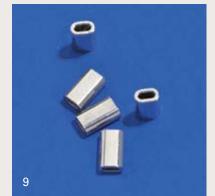


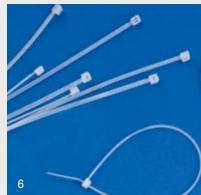


















TO ORDER TAGS - Specify tag size, quantity and legends required. Other sizes available, please call for a quote.

Laser-Etched Stainless Steel Equipment Tags

For use in: Food Processing Plants, Oil and Gas Facilities, Power Generating Stations and Marine and Offshore.

- #316 Stainless Steel
- Standard tags have round corners and mounting holes for ease of installation
- Black Text is laser etched for visibility and durability
- IDEAL FOR:
 Equipment subject to frequent washdowns or chemical cleanings
- Nameplates on machinery that continually run at high temperatures
- Valve or instrument identification in highly-corrosive or caustic environments
- Bar-coded asset tags

PRICE PER TAG Tag Size Unit Price 1" x 3" \$6.04 2" x 4" \$6.41 4" x 6" \$16.45

Stainless Steel Valve Tags

• PRV45783	D
------------	---

Size	1-49	50-99	100-249	250+
11⁄2" Round	\$4.49	\$4.36	\$4.21	
1" x 3" Rectangle	\$6.04	\$5.86	\$5.68	Call for a quote
2" Round	\$5.03	\$4.90	\$4.81	Call for a quote
2" Square	\$5.03	\$4.90	\$4.81	

Control Valve & Sample Point Location Tags

- MS-215 tags are 3" x 6 " and each can be hung or directly affixed to pipe immediately adjacent to sample points or control valves
- Significantly increases amount and legibility of information [ie: valve number, description, function, P&ID number, color coding, even sampling procedures]
- Tags are resistant to chemicals and fading and are for indoor and outdoor use
- Tags can be easily mounted using stainless steel brackets. Tags are bolted to stand-off brackets then fastened to pipe using stainless steel straps. Rigid tags are supplied ready-for-installation with bolts and mounting bracket.

Туре	Unit Price
Rigid – includes bracket	\$26.78

Bar Coded MS-215 Max-Tek™ Tags

Use for asset management or inventory control. Bar code makes capturing and tracking asset data easy and accurate

- Make sure critical maintenance checks or process readings are completed as scheduled and all vital information is transferred correctly to the master data base or maintenance management system.
- Tags are constructed from two layers of highperformance plastic which ensures that the bar code and printing are completely resistant to chemicals and fading
- Tags can be printed directly from data-base files
- Standard colors: Black, Red, Green, White, and Yellow.

NOTE: FASTENERS LISTED ON PAGE 35.

Tag Size	1-49	50-99	100-249	250+
1" x 3"	\$4.73	\$4.63	\$4.36	
2" x 4"	\$5.30	\$5.20	\$5.06	Call for a quote
custom size	s availabl	е		







AIR 213

ALARM PANEL

3RD FLOOR SOUTH

SERVES ROOMS 341-1 - 357-2

AND ROOMS 361-1- 377-2

GWS

101

TO ORDER Choose the appropriate size tag and indicate the color and legend sequence needed. Submit your list via e-mail, on CD, fax or phone.

Anodized Aluminum Tags

Used to tag valves, instruments, small piping, cables or fugitive emission locations. These easy to read tags provide a highly visible contrast between the engraved legend and the colored background.

- Extremely durable, .020" thick tags can be used indoors and outdoors and are especially useful in environments with extreme heat or cold
- Available in 1¹/₂" and 2" round or square, each with one ³/16" mounting hole
- Background colors available: Green, Red, Blue, Gold Black and Natural
- Standard engraved letter height: 1/4"

NOTE: FASTENERS LISTED ON PAGE 35.

Size	1-99	100-249	250+		
11⁄2" Round	\$2.78	\$2.46			
11⁄2" Square	\$2.78	\$2.46	call for		
2" Round	\$3.14	\$2.90	a quote		
2" Square	\$3.14	\$2.90			

Aluminum Equipment Tags

Use for equipment plates to show model name and characteristics specific to a piece of equipment or maintenance instructions and operating procedures.

- Durable for indoor and outdoor use
- Available in 1"x 3", 2"x 4" and 4"x 6" plates
- Come with standard 3/16" mounting holes
- Two side holes for 1" x 3" and 2" x 4" tags; four corner holes for 4" x 6" size
- Engraved legend and black enamel background provides high-contrast for enhanced legibility

Tag Size Unit Price

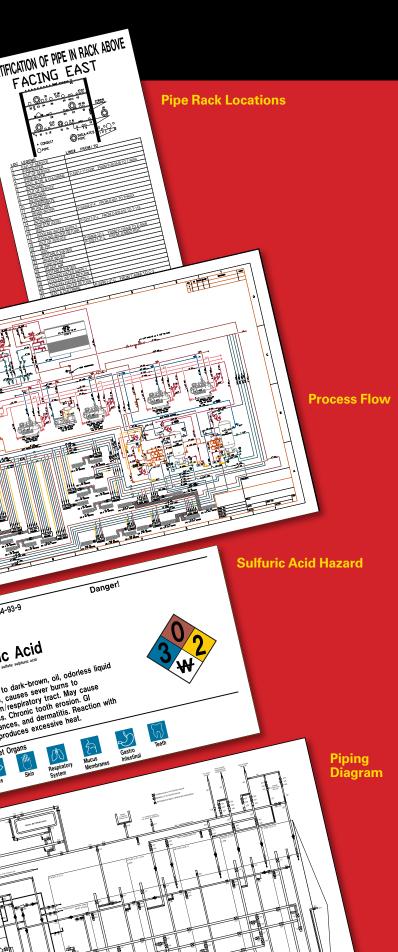
ing oile	•
1" x 3"	\$6.17
2" x 4"	\$8.39
4" x 6"	\$10.77

Signs



Clear and well-placed plant signage is critical for employee safety and operational efficiency. MSI specializes in creating custom, highly-descriptive signage to provide plant personnel with necessary information regarding safety hazards, operating procedures and equipment identification.

Signs



TO ORDER SIGNS - Please call for assistance.

Custom Max-Tek[™] Signs

Use MS-215 Signs to communicate specific information to operators, maintenance or contractor personnel: indicating critical instrument procedures. lockout valve procedures, operating process flow diagrams, or emergency shut down configurations.

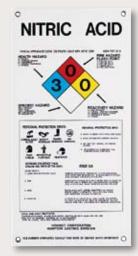
- Signs can be mounted directly in operating units, control rooms or at battery limit locations
- Completely resistant to chemicals and fading
- Available in 2 materials:
- 1) MS-215 F a flexible [0.30"] sign material used for application on flat or curved surfaces. Use our heavy duty adhesives to attach the signs.
- 2) MS-215 R a rigid sign [.125"] material used for hanging or mounting, using screws, bolts or rivets.
- Photoluminescent or reflective material available
- Custom sizes up to 36" x 48" (call for larger sizes)



Construction Adhesive Available in 10.2 oz. tubes

Heavy Duty Adhesive Part # 15769 Silicone Sealant Part # 15756 Adhesive cartridge fits most caulk guns MSDS available.

\$7.07 Per Tube



For Compliance with OSHA Right-to-Know Laws

Specifically designed to provide a clear hazard warning for employees in industrial plants, mills and chemical storage facilities

- Follows the NFPA system to denote the severity of hazard with regard to flammability, reactivity, health and specific chemical characteristics.
- Includes information about physical and health hazards as well as proper safety and first aid procedures [in accordance with OSHA 29 CFR 1910.1200]
- Colors: Red, Blue, Yellow, and Black on a White background
- For custom layouts: forward a copy of the MSDS (Material Safety Data Sheet) and designate the NFPA diamond hazard numbers

MS-215 Max-Tek[™] Tank & Vessel Identification Signs

Use MS-215 flexible signs to name and number each tank or vessel

- Extremely durable signs are designed to be printed with the unique name and number of each tank or vessel
- Flexible sign construction allows for easy installation, conforming to the contours of the tank. Use heavy duty adhesive to attach sign to tank (page 40)
- Background colors available: White, Blue, Red, Black, or Yellow with Black or White letters
- Excellent outdoor life and chemical-resistance

	Sign Size	1-9	10-24	25-49	50+
	6" x 20"	\$44.67	\$42.70	\$38.51	Call for
	12" x 20"	\$68.31	\$64.66	\$59.80	a quote

Size	1	2-3	4-9	10+
24" x 12"	\$81.53	\$74.30	\$67.57	Call for quote

Part #	Legend	Health	Fire	Reactivity	Specific Hazard
65520	ALUM	2	0	0	-
65522	BLACK DYE	1	1	1	-
65523	BLACK LIQUOR	2	0	2	-
65524	BLUE DYE	0	0	0	-
65525	CALCIUM CARBONATE	1	0	1	-
65526	CAUSTIC	3	0	1	-
65527	CHLORINE	3	1	0	₩
65528	DEFOAMER	1	2	0	-
65529	DIESEL FUEL	0	2	0	-
65530	FUEL OIL	0	2	0	-
65531	GASOLINE	1	3	0	-
65532	GREEN LIQUOR	2	0	2	-
65534	HYDROGEN	3	4	0	-
65535	METHANE	1	4	0	-
65536	METHANOL	1	4	0	-
65537	NITRIC ACID	3	0	1	-
65538	NITROGEN	0	0	0	-
65540	PHOSPHORIC ACID	3	0	2	-
65539	POLYMER	0	0	0	-
65541	PROPANE	1	4	0	-
65542	RED DYE	0	1	0	-
65543	SODA ASH	1	0	0	-
65544	SULFURIC ACID	3	0	1	₩
65545	TITANIUM DIOXIDE	0	0	0	-
65546	WHITE LIQUOR	3	0	2	OXY

EA-439 DEMETHANIZER FEED TOWER OVERHEAD CHILLER

42

Signs

TO ORDER Select a part number and quantity required for self-adhesive label or .030 flexible signs. Combine total number of labels or signs for best price. If you need custom signage, please call.

FIRE EXIT		
Size: 6" x 18"	Part # IMO 201	





Size: 6" x 18" Part # IMO 203





Part # IMO 205 Size: 6" x 18"



Part # IMO 206 Size: 6" x 18"





Size: 6" x 18" Part # IMO 208



Size: 6" x 18" Part # IMO 209

1					
	Size	1-9	10-49	50-99	100+
	4" x 12"	\$8.17	\$7.59	\$7.04	Call for
	6" x 18"	\$18.32	\$17.21	\$16.12	a quote

Size	1-9	10-49	50-99	100+
4" x 12"	\$20.29	\$19.50	\$18.34	Call for
6" x 18"	\$39.22	\$38.06	\$37.01	a quote





Size: 6" x 18" Part # IMO 210









Part # IMO 216 Size: 6" x 18"









Size: 6" x 18" Part # IMO 223



EXI

Size: 4" x 12" Part # IMO 226



Size: 4" x 12" Part # IMO 229



Size: 4" x 12" Part # IMO 232



Size: 4" x 12" Part # IMO 235

MS-215 Max-Tek[™] **Photoluminescent Signs for Evacuation and Escape**

- Clearly identify a safe pathway for evacuation in stairwells, basements, hallways, warehouses, below decks on ships or offshore installations
- Illuminate exits or escape routes for personnel
- Glow time is 6 hours and recharges after 30 minutes exposure to sunlight, incandescent or fluorescent lighting
- Meets ASTM E 2072, ISO/CD 15370, and IMO Resolution A.752[18] requirements
- Available in MS-215F outdoor-grade plastic signs or in MS-960 self-adhesive labels

Size: 6" x 18"



Size: 6" x 18" Part # IMO 213



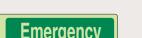






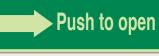




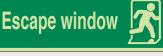


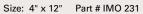


Size: 4" x 12" Part # IMO 225



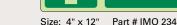






















Part # IMO 212

Part # IMO 215

Size: 6" x 18" Part # IMO 218

Size: 6" x 18" Part # IMO 221

FOR EMERGENCY USE ONLY

Size: 6" x 18" Part # IMO 224

Escape to sea

Smoking

Area

Low-Level Lighting Arrows Part #: IMO 237 Size: 3" x 18" \$19.50 215F Sign

Size: 6" x 18"

Size: 6" x 18"

EXIT



Part # IMO 211



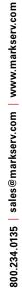
Part # IMO 217



Size: 6" x 18" Part # IMO 220









Size: 4" x 12" Part # IMO 233



Size: 4" x 12" Part # IMO 236

Signs

Safety/Operational Signs MS-215 Max-Tek[™]

When you need the most long-lasting high-performance signs available.

- For the ultimate in outdoor durability; MS-215 Max-Tek[™] signs are designed to shield the printed legends between two layers of high-performance plastic. The sealed sign provides maximum protection against moisture, sunlight, and the effects of harsh chemicals.
- Highly-visible printed legends will remain effective outdoors for years because of the UV-protective layer inherent in the construction
- Stainless steel grommets in each corner are standard to insure maximum life
- Available in magnetic material call for quote

PRICE PER SIGN				
Size	1-9	10-24	25+	
7" x 12"	\$18.38	\$17.25		
10" x 14"	\$36.65	\$35.81	call for a quote	
12" x 20"	\$46.77	\$44.80		

MS-900 Self Adhesive Signs (SAS)

Use MSI's Self-Adhesive Signs in environments that are not subject to washdowns chemicals or UV exposure. MSI's SAS signs comply with OSHA requirements for signage. Also available with magnetic backing. Please call for a quote.

PRICE PER SAS SIGN				
Size	1-9	10-24	25+	
7" x 12"	\$6.89	\$6.64		
10" x 14"	\$11.36	\$10.25	call for a quo	
12" x 20"	\$17.27	\$16.25		



Size 215-R SAS 7"x12" 80000 82000 10"x14" 80001 82001 12"x20"80002 82002

DANGER

CAUSTIC

EYE PROTECTION AND PROTECTIVE CLOTHING REQUIRED

Size 215-R SAS

7"x12" 80006 82006 10"x14" 80007 82007

12"x20"80008 82008

DANGER

CHLORINE

EYE PROTECTION AND PROTECTIVE CLOTHING REQUIRED

7"x12" 80012 82012

10"x14" 80013 82013

12"x20" 80014 82014

DANGER

CONFINED

SPACE

ENTER BY PERMIT ONLY

7"x12" 80018 82018

10"x14" 80019 82019

12"x20"80020 82020

Size 215-R SAS

Size

215-R SAS



Size 215-R SAS 7"x12" 80003 82003 10"x14" 80004 82004 12"x20"80005 82005



Size 215-R SAS 7"x12" 80009 82009 10"x14" 80010 82010 12"x20" 80011 82011



215-R SAS Size 7"x12" 80015 82015 10"x14" 80016 82016 12"x20" 80017 82017

DANGE	R
 do no Ente	

Size 215-R SAS 7"x12" 80021 82021 10"x14" 80022 82022 12"x20" 80023 82023

DANGER				
	Protec Require ND This	D		
Size	215-R	SAS		
7"x12"	80024	82024		
10"x14	80025	82025		
40. 00	80026	82026		

DANGER

EAR AND EYE PROTECTION

REQUIRED

IN THIS AREA

	ANGE	R
	PROTEC	D
BETU	ND THIS	PUINT

SAS 7"x12" 80027 82027 10"x14" 80028 82028 12"x20"80029 82029

Size 215-R SAS

7"x12" 80033 82033

10"x14" 80034 82034

12"x20" 80035 82035



Size 215-R SAS 7"x12" 80030 82030 10"x14" 80031 82031 12"x20" 80032 82032



HARD HATS REQUIRED **BEYOND THIS POINT** Size 215-R SAS

7"x12" 80036 82036 10"x14" 80037 82037 12"x20"80038 82038



(DANGER)

12"x20"80068 82068

STARTS AUTOMATICALLY

Size 215-R SAS

7"x12" 80081 82081

10"x14" 80082 82082

12"x20"80083 82083

Size

Size 215-R SAS 7"x12" 80051 82051 10"x14" 80052 82052 12"x20"80053 82053

DANGER SMOKING IN DESIGNATED AREAS

> 7"x12" 80069 82069 10"x14" 80070 82070 12"x20" 80071 82071

DANGER

HARD HAT

AREA

Size 215-R SAS

7"x12" 80039 82039

10"x14" 80040 82040

12"x20"80041 82041

DANGER

HIGH VOLTAGE

KEEP OUT

Size 215-R SAS

7"x12" 80054 82054

10"x14" 80055 82055

12"x20"80056 82056

Size 215-R SAS 7"x12" 80084 82084 10"x14" 80085 82085 12"x20"80086 82086





Size



7"x12"





Size









TRAFFIC KEEP CLEAR





Size 215-R SAS 7"x12" 80111 82111 10"x14" 80112 82112 12"x20"80113 82113 Size 215-R SAS 7"x12" 80114 82114 10"x14" 80115 82115









10"x14" 80097 82097 12"x20"80098 82098



STATION 12"x20" 80116 82116







10"x14" 80067 82067

Size

215-R SAS

DANGER

HARD HAT

AREA

WATCH OUT FOR FORKLIFT TRAFFIC IN THIS AREA

Size 7"x12"







215-R	SAS
80042	82042
80043	82043
80044	82044

Size

7"x12"

10"x14"

12"x20"



Size 215-R SAS 7"x12" 80057 82057 10"x14" 80058 82058 12"x20"80059 82059



AUTHORIZED PERSONNEL ONLY

215-R SAS 7"x12" 80072 82072 10"x14" 80073 82073 12"x20" 80074 82074



215-R	SAS
80087	82087
80088	82088
80089	82089

215-R	SAS
80117	82117
80118	82118
80119	82119

DANGER
HEARING PROTECTION
REQUIRED
IN THIS AREA

Size 215-R SAS 7"x12" 80045 82045 10"x14" 80046 82046 12"x20"80047 82047



7"x12" 80060 82060 10"x14" 80061 82061 12"x20"80062 82062

	ANGE	R
M	Persona Ctive Equ Ust be Wo N This Ar	JIPMENT ORN
Size	215-R	SAS

7"x12" 80075 82075 10"x14" 80076 82076 12"x20"80077 82077



Size 215-R SAS 7"x12" 80090 82090 10"x14" 80091 82091 12"x20"80092 82092



10"x14" 80106 82106 12"x20"80107 82107



Size 215-R SAS 7"x12" 80048 82048 10"x14" 80049 82049 12"x20"80050 82050



7"x12" 80063 82063 10"x14" 80064 82064 12"x20"80065 82065

DANGER			
EYE PE	FURIC ROTECTIO CTIVE CLO REQUIRED	n and Othing	
Size	215-R	SAS	

7"x12" 80078 82078 10"x14" 80079 82079 12"x20"80080 82080

CAUTION EYE AND EAR PROTECTION MUST BE WORN IN THIS AREA				
Size	215-R	SAS		
7"x12"	80093	82093		
10" 111	1 00004	92004		

12"x20"80095 82095



CUSTOM SIGNS AVAILABLE

Call us and we'll create your custom sign.

Signs

46





TO ORDER

SELF-LAMINATING TAGS - Choose part number for each tag legend and select the type of back legend needed. Example: "DANGER CAUSTIC" with back number 2 would have a part # 40042.

CUSTOM TAGS - Specify legend, colors and quantity required. See custom price table. Combine total number of tags for best price. Other sizes available, call for more information.

Premium Self-Laminating Accident Prevention Tags

- For durability and flexibility, these heavy duty 5¾" x 3" plastic tags are designed with a protective, over-laminating layer.
- Write your message on the tag, remove the liner and press the protective layer onto the tag. The sealed tag provides protection of vital text information against moisture, sunlight, and exposure to chemicals.
- Use for lockout of equipment, to warn of immediate or potential hazards or to convey maintenance instructions and operating procedures.
- Stainless steel grommets are used to ensure maximum life. Tags are supplied with nylon ties.
- Standard (non-self-laminating) tags also available in the part numbers listed. Call for a quote.

PRICE PER TAG				
Size	1-99	100-249	250-499	500+
5¾" x 3"	\$2.36	\$2.13	\$1.89	call for a quote

Size	1-99	100-249	250-499	500+
5¾" x 3"	\$2.56	\$2.18	\$2.01	call for a quote





SIGNED BY.....

0

ANGER



DANGER

DO NOT

ENTER

AUTHORIZED PERSONNEL ONLY SIGNED BY_____ DATE ____

Part # SL4009

0

DANGER

do not Drink

THIS WATER

Part # SL4008

0

DANGER

DO NOT

CLOSE

THIS VALVE

SIGNED BY_____









Part # SL4005









Part # SL4006

Signed By_____ Date_____

Part # SL4004

0

DANGER

SIGNED BY____ Part # SL4007



Part # SL4010





Part # SL4012

Part # SL4011





Part # SL4017

0



Part # SL4016

Part # SL4018







Part # SL4022 Part # SL4023

Part # SL4024

0







VOLTS Signed By_____

Part # SL4029









NOTICE SIGNED BY____











SIGNED BY_____ DATE





















DO NOT USE











Part # SL4028









Part # SL4035

CAUTION WET

CAUTION **KEEP** OUT

Part # SL4040

Part # SL4041

Part # SL4042





Part # SL4013



Part # SL4019



Part # SL4025



Part # SL4031



Part # SL4037



Part # SL4043





Part # SL4020



Part # SL4026



Part # SL4032



Part # SL4038



Part # SL4044



Part # SL4015



Part # SL4021



Part # SL4027



Part # SL4033



Part # SL4039

0	
FIRE EXTINGUISHER MAINTENANCE RECORD	
	l
	l

Turnkey Installation

MSI is a turnkey contractor who has developed a unique methodology for labeling complex piping systems as well as implementing effective safety and equipment signage programs. Our facilities in Milwaukee, Houston, Singapore and Canada provide single-source accountability for all phases of complex labeling and safety signage projects worldwide.

When properly executed, pipe identification does more than merely satisfy regulatory requirements. It aids in routine plant operations, assists new operators in understanding the physical layout of piping systems, and provides vital, time-saving information assistance during emergencies when there is no time to trace lines.

Our products become an integral part of operator training during commissioning and start-up of new projects, providing the essential benefit of instantly identifying the contents of a pipe, direction of flow, origin and destination, as well as it's line number and associated P&ID number.











MSI INSTALLATION TEAMS:

focus solely on labeling pipes, tagging valves and installing signs. Our concentrated approach allows projects to be completed in weeks rather than months.

take a detailed approach to each project. Special attention is paid to pipe racks, equipment and control valves, eliminating the need for client personnel to trace lines on a day-to-day basis and in times of emergency.

are properly equipped and trained to function independently, preventing disruptions with the clients' normal activities.

- have extensive safety training and the latest equipment to ensure that each project is completed safely.
- guarantee the client receives maximum value by applying their wealth of experience to ensure that all process labels, tags and signs are installed correctly and in areas that provide maximum visibility for facility operators.



Our professional sales staff is experienced in developing specifications and recommending product solutions. We produce a wide variety of products affording our customers many options for meeting their labeling requirements. As an installation contractor we offer professional installation services and a single source of accountability from materials selection through installation. Our customers count on MSI for highquality products, professional installation services and prompt delivery worldwide.

TERMS OF SALE:

Net 30 Days F.O.B. Milwaukee, WI

CREDIT TERMS:

All orders are subject to acceptance of Marking Services, Inc. Customers with established credit or well-rated by Dun & Bradstreet are normally on open account. First-time customers are requested to send a bank statement and three references along with the first order, or send a check, or accept C.O.D. shipment, or use your Mastercard, Visa, American Express or Discover.

RETURN POLICY:

Full packages of stock products in resalable condition will be accepted for return within thirty days from date of invoice. All returns must be shipped freight-paid after receipt of written authorization. A 15% restocking charge may apply. Returns of custom and one-of-a-kind printed products will not be accepted.

WARRANTY STATEMENT:

Marking Services, Inc. warrants, for a period of one year, that its products are free from defects in material and workmanship. Marking Services, Inc.'s obligation under this warranty is limited to replacement of the product if Marking Services, Inc.'s examination shall disclose to its satisfaction to have been defective at the time of sale. This is Marking Services, Inc.'s sole warranty. This warranty does not extend to any person or persons acquiring the product from the home buyer. MARKING SERVICES, INC. MAKES NO OTHER WARRANTIES OF ANY KIND WHATSOEVER, EX-PRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANT-ABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE AFORESAID OBLIGATION ARE HEREBY DISCLAIMED BY MARKING SERVICES, INC. Under no circumstances shall Marking Services, Inc. be liable for any loss, damage, cost of repair or consequential damages of any kind in connection with the sale, use or repair of any product purchased from the company.

CORPORATE HEADQUARTERS

800.234.0135 414.973.1331 Fax/800.627.6432 8265 N. Faulkner Road P.O. Box 240027 Milwaukee, Wisconsin 53224

ENGINEERING & INSTALLATION

HEADQUARTERS 800.813.8642 281.424.6710 Fax/877.259.0134 5518 N. Decker Dr. Houston, Texas 77520

EASTERN REGIONAL OFFICE

888.300.6202 302.478.0381 Fax/888.300.6231 Suite 208H Plaza Centre 3505 Silver Side Road Wilmington, Delaware 19810

WESTERN REGIONAL OFFICE

800.689.8233 Fax/800.896.5697 1921 N. Gaffey Street Suite B San Pedro, CA 90731

CANADIAN OFFICE

Marking Services Canada, Ltd. 780.955.9303 Fax/780.955.9322 702-12 Bay #6 Edmonton, Alberta T9E7P7

ASIAN OFFICE

Marking Services Inc (S) PTE LTD 65-6-872-1529 Fax/65-6-872-1669 Pantech Industrial Complex 196 Pandan Loop #07-15 Singapore 128384 sales@markingservices.com.sg

SALES OFFICES:

Dallas 800.378.3574 Fax/817.419.0036

Los Angeles 888.391.0777 Fax/951.246.1535

Virginia 804.687.9203 Fax/800.627.6432

ldaho 414.429.5250 Fax/208.429.1286

sales@markserv.com | www.markserv.com | 1.800.234.0135

Presorted Standard U.S. Postage **PAID** Milwaukee, WI Permit No. 4134