LABELING PRODUCTS & SERVICES CATALOG

MSI

Marking Services Incorporated®

MSI CORE PHILOSOPHY

Logical, thorough, and consistent communication is imperative for the safe and reliable operation of commercial and process facilities. At MSI, we want to help you establish guidelines and specifications to communicate meaningful information to facility personnel in support of safe operations, emergency response, and compliance with regulatory requirements through an effective and durable plant labeling system. MSI wants your facility to be set up with "best practices" for plant labeling products, services, and instant access to critical asset information using mobile technology.

Durable labeling installed properly and effectively is intended to support process safety management and uninterrupted production by providing critical information to plant personnel in a standardized and consistent manner. The objectives of asset management and identification from MSI are designed to deliver the following benefits:

1) Process Safety Management (PSM):
PSM is an integral part of safe, reliable, and effective plant operations. Benefits of enhancing a PSM program with respect to labeling include:
- Enhanced facility safety & productivity
- Improved operator training
- Assistance for maintenance personnel by providing instant access to asset information like operation and maintenance manuals and work procedures direct at the asset
- Reduced risk of equipment downtime
- Aid and support for emergency response personnel

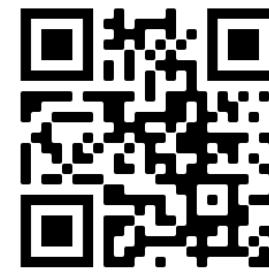## 2) Hazard Reduction and the Prevention of Human Error:
A comprehensive and effective labeling program contributes to the effective functioning of process operations and limits the potential for downtime or injuries due to operations or maintenance errors.

3) Uniformity of Labeling Nomenclature:
A labeling program that is standardized and consistent contributes to the flow of information and feedback among all affected departments including: operations, maintenance, safety, environmental, quality, administration, supply, and management. Information flow regarding piping, equipment, valves, instrumentation, and hazards shall be understood by all parties because of the standard definitions and specific identification included on each label, sign, or tag.

4) Regulatory Compliance:
Industries subject to government oversight or compliance testing can store critical data directly at the asset location and retrieve this data during inspections. Using mobile technology, critical information can be retrieved at the asset without having to dig for information in engineering libraries.

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CONTRACTOR SERVICES

We provide a single source for all mechanical and electrical labeling needs. More than simply creating your labels, you'll benefit from the smart choices we have developed to help manage your largest expense, labor.

From take-off services to quickly installed labeling products, we can help you complete any size labeling challenge efficiently and cost-effectively. Through our value-added services and high-quality products, we significantly raise the level of safety awareness, and reduce your in-place costs.

Material Take-Off Service

Our Material Take-Off service lowers in-place costs and provides added value. This service is designed for a wide range of projects in healthcare, government, public safety, medical, education, and telecommunications facilities. Working with us from the beginning saves project managers time they would otherwise spend creating a list of identification products. As an added value to our Take-Off Service, we will also package your materials per your specification using our Pack-By Service. This allows materials to be packaged in a way that eliminates sorting and saves you time and money during installation.

Submittal Service

We know that part of your contract with customers requires you to provide submittal documents for all the products you supply. As a service to you, we will prepare any and all labeling submittal documents that will meet your customer's requirements.

OWNER SERVICES

Our turnkey asset identification products & services provide you with a single source for all facility identification needs. By organizing the elements of each facility's asset information, we standardize labeling thereby promoting safer work conditions. We help you manage your facilities better; achieving long-term cost savings associated with faster, more efficient plant commission, start-ups, and improved operator training. We have expertise in streamlining labeling and providing custom labeling solutions for major construction projects or existing facilities.

Technical Drafting Services

Our technical drafting services focus on the development of accurate as-built drafting products and services for any industry. From piping and instrumentation diagrams (P&ID's) to facility site plans, our drawings visually communicate valuable asset information and are an essential tool for engineering, maintenance, and health & safety personnel. In the absence of quality information available we utilize 3D laser scanning technology to collect data about a facility's operating environment to use in the development of accurate P&IDs and labeling.

Installation Services

Our turnkey installation process systematically installs permanent asset identification without you devoting personnel time or direct supervision. Our crews are experts at installing identification in a timely, consistent, and safe manner.

Engineering

Our staff of full-time professionals is experienced in the intricacies of developing and implementing a total identification system. Our engineering uses a comprehensive approach to creating an efficient identification program for your facility.

TECHNOLOGY

ATLAS and AIM Mobile Technology take asset identification and the execution of procedures to the next level. Through the use of QR-coded identification our products are now intelligent gateways to critical information. Our technology provides personnel access to critical operational information vital to hazard reduction, prevention of human errors, and training of plant personnel, ensuring that your plant and employees are operating safely and efficiently.

ATLAS

ATLAS is a mobile procedure management application designed to make your operations easier, safer and more efficient. Using our intelligent identification products equipped with QR codes as a secure portal, field personnel are able to easily scan an asset tag in the field with a mobile device and bring up step-by-step liquid procedures.

AIM Mobile Technology

AIM Mobile Technology is a user-friendly asset and document management application built for safer and more efficient operations. AIM allows users the ability to access critical documents and files, as well as perform procedures associated with the asset simply by scanning AIM Identification in the field.

MARKERS

Coiled Pipe Markers

These pipe markers are built with a pre-coiled design, allowing for easy installation by wrapping around the pipe and self-sealing. They can be removed and re-installed for easy access to the pipe surface.

Self-Adhesive Pipe Markers

Printed on premium quality, fade-resistant material, our Self-Adhesive Pipe Markers are used to address multiple labeling needs from line service designations to system color-coding.

Duct Markers

Printed on a highly visible self-adhesive material, our Duct Markers are used to identify airflow/equipment in a ductwork system, as well as to be used in plenums to help prevent the spread of smoke & gases in the event of a fire.

Carrier Pipe Markers

Consisting of a MS-995 pipe label applied to either a rigid curved or stainless steel carrier, these markers are durable indoor & outdoors with excellent resistance to elements like water, UV rays, or chemicals.

ORDER MS-995 Coiled Pipe Markers
- Determine the four-digit part number for each legend
- Use the marker style table at the bottom right corner of page 1 to determine size of marker desired
- EXAMPLE: The marker "ACID" for a 2" diameter pipe would be part number 1202B

Legend	Color	Part #	Legend	Color	Part #	Legend	Color	Part #
#2 FUEL OIL	YEL	1039	FILTERED WATER	GRN	9914	OXYGEN	BLU	1234
#6 FUEL OIL	YEL	1040	FILTRATE	YEL	9913	PLANT AIR	BLU	9924
150# STEAM	GRN	1200	FIRE PROTECTION WATER	RED	1034	PLANT WATER	GRN	9925
50# STEAM	GRN	1201	FLARE	YEL	1035	POTABLE WATER	GRN	9968
ACID	ORG	1202	FLOOR DRAIN	YEL	1036	PROCESS WATER	GRN	1069
ALUM	YEL	1006	FLUSH WATER	YEL	1061	PROCESS WATER RETURN	GRN	1149
AMINE	YEL	1054	FOUL CONDENSATE	YEL	9949	PROCESS WATER SUPPLY	GRN	1150
AMMONIA	ORG	1203	FRESH WATER	GRN	1037	PROPANE	YEL	9971
ASBESTOS FREE INSULA-	BLU	1157	FUEL GAS	YEL	1038	PULP	YEL	9962
BIOCIDE	YEL	1008	FUEL OIL	YEL	9950	QUENCH WATER	YEL	1129
BLACK DYE	YEL	1009	GAS	YEL	1144	RAFFINATE	YEL	1070
BLACK LIQUOR	YEL	9903	GLYCOL	ORG	1214	RAW WATER	GRN	9963
BLEACHED STOCK	YEL	9904	GLYCOL RETURN	ORG	1215	RED DYE	YEL	9972
BLUE DYE	YEL	1010	GLYCOL SUPPLY	ORG	1216	REJECTS	YEL	9927
BOILER BLOWDOWN	GRN	1204	GREEN LIQUOR	YEL	9915	RELIEF	ORG	1235
BOILER DRAIN	GRN	1205	GROUNDWOOD	GRN	1041	RETENTION AID	YEL	9974
BOILER FEEDWATER	GRN	1206	HARDWOOD STOCK	YEL	9916	ROOF DRAIN	GRN	9975
BREATHING AIR	BLU	1102	HEATING WATER RETURN	GRN	1217	SALTCAKE	YEL	9976
BROKE	YEL	9905	HEATING WATER SUPPLY	GRN	1218	SANITARY DRAIN	GRN	1131
BROWN STOCK	YEL	9906	HEAVY BLACK LIQUOR	YEL	9951	SANITARY SEWER	GRN	1130
BUTADIENE	YEL	1014	HEXANE	YEL	1043	SEAL WATER	GRN	9928
BUTANE	YEL	1013	HI PRESS CONDENSATE	GRN	1219	SHOWER WATER	YEL	9977
BUTENE	YEL	1055	HI PRESS GAS	YEL	1113	SIZE	YEL	9978
CALCIUM CARBONATE	YEL	9942	HI PRESS SHOWER WATER	YEL	1045	SOAP	YEL	9979
CATALYST	YEL	1015	HI PRESS STEAM	GRN	1220	SODA ASH	YEL	9980
CAUSTIC	ORG	1207	HOT GAS	YEL	1115	SODIUM CHLORATE	ORG	1236
CAUSTIC SODA	ORG	1208	HOT WATER	GRN	1221	SODIUM HYDROXIDE	ORG	1237
CHILLED WATER RETURN	GRN	1016	HOT WATER RETURN	GRN	1222	SOFT WATER	GRN	1151
CHILLED WATER SUPPLY	GRN	1017	HOT WATER SUPPLY	GRN	1223	SOFTWOOD STOCK	YEL	9929
CHLORINE	ORG	1209	HYDRAULIC OIL	YEL	9917	STARCH	ORG	1238
CHLORINE DIOXIDE	YEL	9909	HYDROCHLORIC ACID	ORG	1224	STEAM	GRN	9938
CIP RETURN	ORG	1210	HYDROGEN	ORG	1225	STEAM CONDENSATE	GRN	1239
CIP SUPPLY	ORG	1211	HYDROGEN PEROXIDE	YEL	1048	STOCK	GRN	9930
CITY WATER	GRN	1140	HYDROGEN SULFIDE	YEL	1049	STORM DRAIN	GRN	1153
CLARIFIED WHITE LIQUOR	YEL	1018	IGNITER GAS	YEL	1050	STORM SEWER	GRN	1154
CLEAN CONDENSATE	YEL	1019	INSTRUMENT AIR	BLU	9918	STORM WATER	GRN	1071
CLOUDY WHITE WATER	YEL	1020	INSTRUMENT NITROGEN	ORG	1226	STRONG BLACK LIQUOR	YEL	9959
COATED BROKE	YEL	1021	ISO-BUTANE	YEL	1051	SULFUR DIOXIDE	ORG	1240
COATING SLURRY	YEL	1056	ISO-BUTYLENE	YEL	1052	SULFURIC ACID	ORG	1241
COLD WATER	GRN	1141	KEROSENE	YEL	1062	TALL OIL	YEL	9995
COMPRESSED AIR	BLU	1022	LO PRESS CONDENSATE	GRN	1227	TITANIUM DIOXIDE	YEL	9996
COMPRESSED AIR	YEL	1057	LO PRESS STEAM	GRN	1228	TOWER WATER RETURN	GRN	9997
CONDENSATE	GRN	1212	LUBE OIL	YEL	9920	TOWER WATER SUPPLY	GRN	9998
CONDENSER WATER	GRN	1023	LUBE OIL RETURN	YEL	1147	TREATED WATER	GRN	9999
CONDENSER WATER	GRN	1024	LUBE OIL SUPPLY	YEL	1148	TURPENTINE	YEL	1001
CONTAMINATED CONDEN-	YEL	1028	MAKE UP WATER	GRN	1053	UNBLEACHED STOCK	YEL	9960
COOLING WATER	GRN	1025	MED PRESS CONDENSATE	YEL	9946	UTILITY WATER	GRN	1242
COOLING WATER RETURN	GRN	1106	MEDIUM PRESS STEAM	GRN	1229	VACUUM	ORG	1243
COOLING WATER SUPPLY	GRN	1107	METHANOL	ORG	1230	VENT	ORG	1244
CRUDE OIL	YEL	1026	MILL AIR	BLU	9921	WASTE OIL	YEL	1073
DEFOAMER	YEL	9911	MILL WATER	GRN	9922	WASTE WATER	YEL	1002
DEMINERALIZED WATER	GRN	1027	MTBE	YEL	1063	WATER	GRN	1159
DILUTION WATER	YEL	9948	NATURAL GAS	YEL	9923	WATER	ORG	1245
DRAIN	ORG	1213	NITROGEN	ORG	1231	WEAK BLACK LIQUOR	YEL	9937
DRINKING WATER	GRN	1030	NON CONDENSABLE GAS	YEL	9953	WEAK WASH	YEL	9961
EFFLUENT	YEL	1031	NON POTABLE WATER	GRN	1232	WELL WATER	GRN	1155
ETHYLENE	YEL	1032	NORMAL BUTANE	YEL	1067	WHITE LIQUOR	YEL	9939
ETHYLENE GLYCOL	YEL	1109	OFF GAS	YEL	1068	WHITE WATER	YEL	9940
FEED STOCK	YEL	1033	OVERFLOW	ORG	1233	YELLOW DYE	YEL	1003

MS-995 Coiled Pipe Markers

MS-995 Coiled Pipe Markers are manufactured for extended life in harsh surroundings involving process chemicals, food processing, pharmaceuticals, water treatment, and marine & offshore environments. They are tested and produced to withstand prolonged exposure to direct sunlight, salt water, harsh process chemicals, acids, caustics, and hydrocarbons.

- Pre-coiled markers install easily by wrapping entirely around the pipe diameter and self-sealing with a lockdown strip
- Installation can be on either bare or insulated pipe and requires no surface preparation for attachment since they bond to themselves, not the pipe surface
- Can be removed and reinstalled
- ASME A13.1-1996 colors available upon request

Custom MS-995 Coiled Pipe Markers

Custom pipe markers are available to meet plant specific needs for color, pipe diameter, and information (including from/to, P&ID numbers, line numbers, pipe contents, flow direction, etc.).

Styles Available

MS-995 Coiled Pipe Markers are available in nine standard sizes to fit pipes with overall outside diameters of ⅜" through 18" (including insulation thickness).

*MS-995 markers comply with ASME A13.1, except styles J, K, L & N which do not comply with the ASME A13.1 standard regarding marker size and letter height.
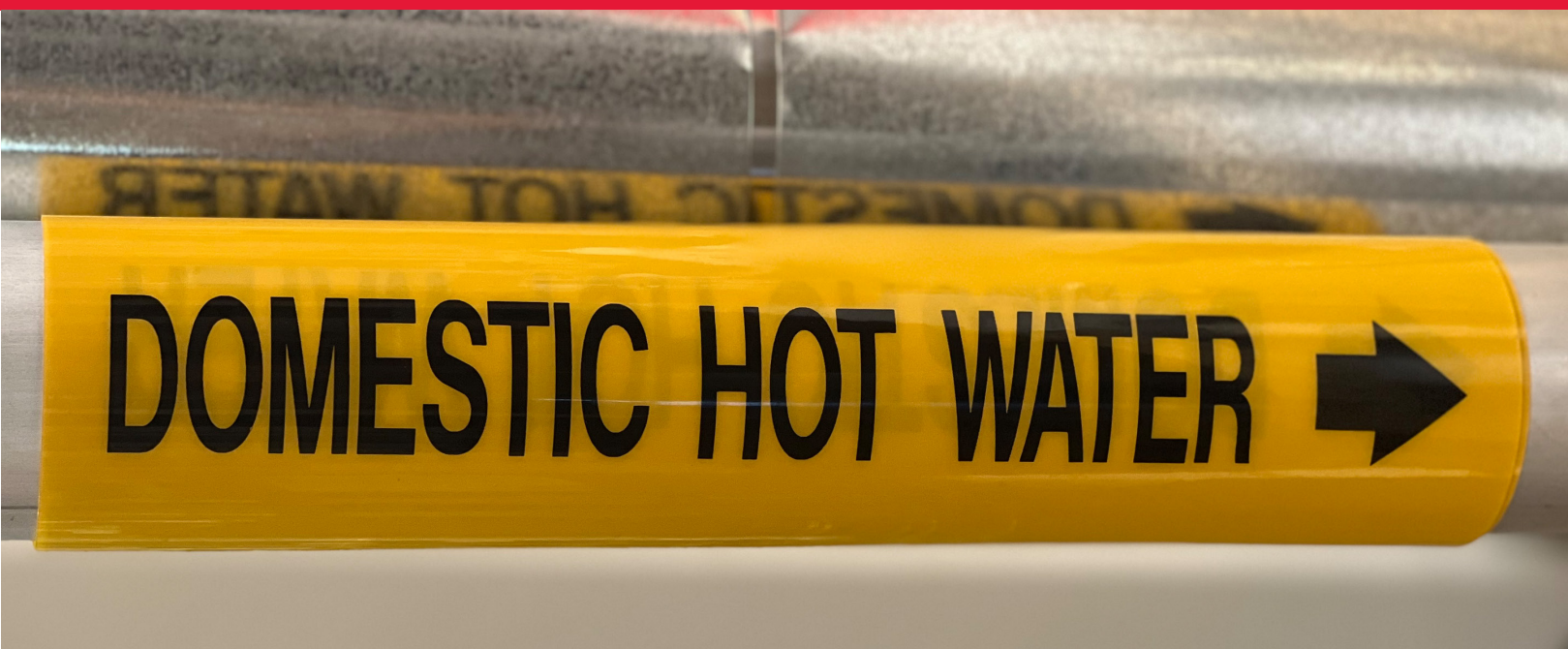
Pipe Diameter (Including Insulation)	Marker Style	Marker Width	Character Height
⅜" – ½"	TM	3"	¼"
½" – 1"	A	8"	½"
1⅛" – 2¼"	B	8"	¾"
2½" – 4¾"	D	12"	1¼"
5" – 7⅞"	E	12"	1¼"
8" – 10"	J*	12"	1¼"
11" – 12"	K*	12"	1¼"
13" – 15"	L*	12"	1¼"
16" – 18"	N*	12"	1¼"

MS-970 Coiled Pipe Markers

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

MS-970 Coiled Pipe Markers are constructed of semi-rigid material and are designed to identify piping in a wide variety of environments, especially in applications where the pipe surface is rough, oily, or wet. They stay in place on pipes due to the memory of the coiling process, and therefore do not rely on adhesives. Complies with ASME A13.1.

Features

- Coiled construction quickly snaps around pipes
- No pipe surface preparation needed
- Self-locking adhesive strip keeps marker in place even on vertical pipes
- Plastic nylon straps are included to secure marker in place on pipes 6" or larger
- Can be removed and reused
- Flow direction arrows are printed on each marker
- ASME A13.1-1996 colors available upon request

Custom MS-970 Coiled Pipe Markers

- 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, and flow direction
- Multiple color combinations available
- Custom sizes and colors available

Pipe Diameter (Including Insulation)	Marker Style	Marker Width	Character Height	Marker Type
⅜" - ½"	TM	3"	¼"	coil-on
½" - 1"	A	8"	½"	coil-on
1⅛" - 2¼"	B	8"	¾"	coil-on
2⅜" - 3¼"	C	12"	1¼"	coil-on
3⅜" - 4½"	D	12"	1¼"	coil-on
4⅝" - 5⅞"	E	12"	1¼"	coil-on
6" - 7⅞"	*F	12"	1¼"	strap-on
8" - 10"	*G	24"	2½"	strap-on
over 10"	*H	32"	3½"	strap-on

*Style F Markers include two 36" nylon straps
*Style G Markers include three 36" nylon straps
*Style H Markers include three 48" nylon straps

 - Additional straps available if needed

ORDER MS-970 Coiled Pipe Markers

- Determine the four-digit part number for each legend
- Use the marker style table at the bottom right corner of page 3 to determine size of marker desired
- EXAMPLE: The marker "ACID" for a 2" diameter pipe would be part number 9800B
- Contact us for custom markers

Legend	Color	Part #	Legend	Color	Part #	Legend	Color	Part #
ACID	ORG	9800	FIRE PROTECTION WATER	RED	9826	OXYGEN	ORG	9690
ACID VENT	ORG	9641	FIRE SPRINKLER WATER	RED	9736	PLANT AIR	BLU	9691
ACID WASTE	ORG	9642	FREON	ORG	9664	POLYMER SOLUTION	YEL	9743
AIR	BLU	9875	FUEL GAS	YEL	9886	POTABLE WATER	GRN	9848
ALUM	YEL	9876	FUEL OIL	YEL	9828	PROCESS WATER	GRN	9853
AMMONIA	ORG	9643	FUEL OIL RETURN	YEL	9737	PROCESS WATER RETURN	GRN	9703
ARGON	ORG	9644	FUEL OIL SUPPLY	YEL	9738	PROCESS WATER SUPPLY	GRN	9704
ASBESTOS FREE INSULATION	BLU	9729	GAS	YEL	9829	PROPANE	YEL	9849
BOILER BLOWDOWN	GRN	9645	GLYCOL RETURN	ORG	9665	PUMPED CONDENSATE	GRN	9693
BOILER FEEDWATER	GRN	9646	GLYCOL SUPPLY	ORG	9666	RAW WATER	GRN	9850
BRINE	ORG	9647	HEATING HOT WATER RETURN	GRN	9667	REFRIGERANT LIQUID	YEL	9706
BYPASS	ORG	9648	HEATING HOT WATER SUPPLY	GRN	9668	REFRIGERANT SUCTION	YEL	9707
CARBON DIOXIDE	ORG	9649	HEATING RETURN	YEL	9832	RETURN	ORG	9722
CAUSTIC	ORG	9650	HEATING SUPPLY	YEL	9833	RETURN	GRN	9851
CHEMICAL FEED	ORG	9651	HEATING WATER RETURN	GRN	9669	ROOF DRAIN	GRN	9872
CHILLED WATER	GRN	9807	HEATING WATER SUPPLY	GRN	9670	SANITARY DRAIN	GRN	9708
CHILLED WATER RETURN	GRN	9808	HI PRESS CONDENSATE	GRN	9671	SANITARY SEWER	GRN	9709
CHILLED WATER SUPPLY	GRN	9809	HI PRESS GAS	YEL	9871	SANITARY VENT	BLU	9723
CHLORINE	ORG	9652	HI PRESS STEAM	GRN	9672	SANITARY WASTE	GRN	9755
CHLORINE SOLUTION	YEL	9731	HI PRESS STEAM	YEL	9835	SEAL WATER	GRN	9711
CIRCULATING WATER	GRN	9811	HOT WATER	GRN	9673	SERVICE AIR	YEL	9746
CITY WATER	GRN	9813	HOT WATER RETURN	GRN	9674	SOFT COLD WATER	GRN	9756
COLD WATER	GRN	9814	HOT WATER SUPPLY	GRN	9675	SOFT WATER	GRN	9712
COLD WATER RETURN	GRN	9866	HYDRAULIC OIL	YEL	9889	SPRINKLER WATER	RED	9854
COLD WATER SUPPLY	GRN	9867	HYDROCHLORIC ACID	YEL	9739	STEAM	GRN	9724
COMPRESSED AIR	YEL	9815	HYDROGEN	ORG	9676	STEAM CONDENSATE	GRN	9725
COMPRESSED AIR	BLU	9732	INDUSTRIAL COLD WATER	GRN	9891	STORM DRAIN	GRN	9873
CONDENSATE	GRN	9653	INDUSTRIAL HOT WATER	GRN	9677	STORM SEWER	GRN	9868
CONDENSATE DRAIN	GRN	9654	INSTRUMENT AIR	BLU	9892	STORM WATER	GRN	9714
CONDENSATE RETURN	GRN	9655	LAB AIR	ORG	9678	SULFURIC ACID	ORG	9726
CONDENSATE SUPPLY	GRN	9656	LAB VACUUM	ORG	9679	SUMP PUMP DISCHARGE	GRN	9744
CONDENSER WATER	GRN	9819	LAB WASTE	ORG	9680	SUPPLY	ORG	9747
CONDENSER WATER RETURN	GRN	9864	LO PRESS CONDENSATE	GRN	9681	SUPPLY	GRN	9856
CONDENSER WATER SUPPLY	GRN	9865	LO PRESS STEAM	GRN	9682	TEMPERED WATER	GRN	9757
COOLING WATER	GRN	9820	LO PRESS STEAM	YEL	9839	TOWER WATER RETURN	GRN	9749
COOLING WATER RETURN	GRN	9882	LUBE OIL	YEL	9896	TOWER WATER SUPPLY	GRN	9750
COOLING WATER SUPPLY	GRN	9883	MAKE UP WATER	GRN	9840	TREATED WATER	GRN	9874
DEIONIZED WATER	GRN	9821	MED PRESS CONDENSATE	GRN	9683	UTILITY WATER	YEL	9751
DOMESTIC COLD WATER	GRN	9822	MED PRESS STEAM	GRN	9684	VACUUM	PUR	9758
DOMESTIC COLD WATER RE-	GRN	9770	MED PRESS STEAM	YEL	9841	VACUUM	ORG	9759
DOMESTIC COLD WATER SUP-	GRN	9771	MEDICAL AIR	BLU	9685	VENT	ORG	9760
DOMESTIC HOT WATER	GRN	9657	MEDICAL VACUUM	WHT	9753	VENT	BLU	9761
DOMESTIC HOT WATER RECIRC	GRN	9658	METHANOL	YEL	9898	WASTE	ORG	9762
DOMESTIC HOT WATER RETURN	GRN	9659	MILL AIR	BLU	9727	WASTEWATER	ORG	9763
DRAIN	ORG	9660	MILL WATER	GRN	9728	WATER	ORG	9764
DRAIN	GRN	9824	NATURAL GAS	YEL	9842	WATER	GRN	9860
DRAIN	YEL	9734	NITROGEN	ORG	9686	WELL WATER	GRN	9721
DRINKING WATER	GRN	9735	NITROUS OXIDE	ORG	9687			
DUAL TEMP RETURN	GRN	9661	NON POTABLE WATER	GRN	9688			
DUAL TEMP SUPPLY	GRN	9662	OIL	YEL	9845			
EXHAUST	BLU	9663	OVERFLOW	ORG	9689			
FILTERED WATER	GRN	9885	OXYGEN	BLU	9700			

MS-900 Self-Adhesive Pipe Markers

For line service identification and system color-coding.

- Complies with ASME A13.1
- Printed on premium quality, fade-resistant material
- Adheres well to pipe and insulation with only limited surface preparation
- Legend markers can be used with arrow tape or separate arrow markers to indicate flow direction (see page 25 for arrow tape)
- Add UV Overlaminate for outdoor use

Custom MS-900 Self-Adhesive Pipe Markers

- No set-up charges or minimum quantity requirement
- Custom colors available
- ASME A13.1-1996 colors available upon request

Marker Style	Pipe Diameter (Including Insulation)	Marker Size	Character Height
A	¾" - 2¼"	1" x 8"	¾"
B	2½" - 7⅞"	2¼" x 13"	1¾"
C	8" - 10"	4" x 24"	2½"
D	Over 10"	4" x 32"	3½"

Note: Arrow markers are half the length of pipe markers.

Legend	Color	Style A	B	C	D
2 PSI GAS	YEL	91100	92100		
2 PSI NATURAL GAS	YEL	91545	92545		
ACETYLENE GAS	YEL	91101	92101		
120° HOT WATER	GRN	91226	92226		
140° HOT WATER	GRN	91227	92227		
160° HOT WATER	GRN	91228	92228		
ACID	ORG	91229	92229		
ACID VENT	ORG	91241	92241	93241	94241
ACID WASTE	ORG	91231	92231		
AIR	YEL	91103	92103		
AIR	BLU	91211	92211		
AMMONIA	ORG	91232	92232	93232	94232
ARGON	ORG	91233	92233		
ARROWS	BLK	91205	92205	93205	94205
ARROWS	BRN	91206	92206	93206	94206
ARROWS	GRY	91207	92207	93207	94207
ARROWS	ORG	91223	92223	93223	94223
ARROWS	PUR	91224	92224	93224	94224
ARROWS	WHT	91225	92225	93225	94225
ARROWS	GRN	91209	92209	93209	94209
ARROWS	RED	91210	92210	93210	94210
ARROWS	BLU	91212	92212	93212	94212
ARROWS	YEL	91208	92208	93208	94208
ASBESTOS FREE INSULATION	BLU	91107	92107		
BOILER BLOWDOWN	GRN	91234	92234		
BOILER FEED	GRN	91235	92235		
BOILER FEEDWATER	GRN	91237	92237	93237	94237
BREATHING AIR	BLU	91401	92401		
CARBON DIOXIDE	ORG	91238	92238		
CAUSTIC	ORG	91239	92239		
CHEMICAL FEED	ORG	91242	92242		
CHILLED WATER	GRN	91114	92114	93114	94114
CHILLED WATER RETURN	GRN	91115	92115	93115	94115
CHILLED WATER SUPPLY	GRN	91116	92116	93116	94116
CHLORINE	ORG	91243	92243		
CHLORINE SOLUTION	ORG	91244	92244		
CIRCULATING WATER	GRN	91118	92118		
CITY WATER	GRN	91119	92119	93119	
CLEAN DRY AIR	BLU	91403	92403		
COLD WATER	GRN	91120	92120		
COLD WATER RETURN	GRN	91121	92121		
COLD WATER SUPPLY	GRN	91122	92122		
COMPRESSED AIR	YEL	91123	92123		
COMPRESSED AIR	BLU	91284	92284		
CONDENSATE	GRN	91245	92245	93245	94245
CONDENSATE DRAIN	GRN	91246	92246		
CONDENSATE RETURN	GRN	91247	92247	93247	94247
CONDENSER WATER	GRN	91128	92128	93128	94128
CONDENSER WATER RETURN	GRN	91129	92129	93129	94129
CONDENSER WATER SUPPLY	GRN	91130	92130	93130	94130
COOLING WATER	GRN	91131	92131	93131	
COOLING WATER RETURN	GRN	91286	92286		
COOLING WATER SUPPLY	GRN	91287	92287		
DEIONIZED WATER	GRN	91132	92132		
DEMINERALIZED WATER	GRN	91214	92214		
DIESEL	YEL	91304	92304		
DISCHARGE	ORG	91248	92248		
DOMESTIC COLD WATER	GRN	91136	92136	93136	
DOMESTIC HOT WATER	GRN	91249	92249	93249	
DOMESTIC HOT WATER RECIRC	GRN	91250	92250		

Legend	Color	Style A	B	C	D
DOMESTIC HOT WATER RE-	GRN	91251	92251		
DOMESTIC HOT WATER SUP-	GRN	91252	92252		
DOMESTIC WATER	GRN	91325	92325		
DRAIN	ORG	91262	92262	93262	
DRAIN	GRN	91137	92137	93137	
DUAL TEMP RETURN	GRN	91263	92263		
DUAL TEMP SUPPLY	GRN	91264	92264		
EVACUATION VACUUM	PUR	91265	92265		
EVACUATION VACUUM	ORG	91268	92268		
EXHAUST	BLU	91269	92269		
EXHAUST AIR	BLU	91270	92270	93270	
FEEDWATER	GRN	91271	92271		
FILTERED WATER	GRN	91253	92253	93253	94253
FIRE PROTECTION WATER	RED	91142	92142	93142	
FIRE SPRINKLER WATER	RED	91143	92143		
FREON	GRN	91144	92144		
FUEL GAS	YEL	91145	92145		
FUEL OIL	YEL	91146	92146		
FUEL OIL RETURN	YEL	91332	92332		
FUEL OIL SUPPLY	YEL	91333	92333		
GAS	YEL	91147	92147		
GASOLINE	YEL	91148	92148		
GLYCOL	ORG	91273	92273	93273	94273
GLYCOL RETURN	ORG	91274	92274		
GLYCOL SUPPLY	ORG	91275	92275		
HALON	RED	91150	92150		
HEATING	YEL	91151	92151		
HEATING HOT WATER RET-	GRN	91276	92276	93276	
HEATING HOT WATER SUP-	GRN	91277	92277	93277	
HEATING RETURN	YEL	91152	92152	93152	
HEATING SUPPLY	YEL	91153	92153	93153	
HEATING WATER RETURN	GRN	91278	92278	93278	
HEATING WATER SUPPLY	GRN	91279	92279	93279	
HI PRESS AIR	YEL	91154	92154		
HI PRESS AIR	BLU	91218	92218		
HI PRESS CONDENSATE	GRN	91280	92280	93280	94280
HI PRESS GAS	YEL	91155	92155		
HI PRESS STEAM	GRN	91307	92307	93307	94307
HOT GAS	YEL	91327	92327		
HOT WATER	GRN	91308	92308	93308	94308
HOT WATER RETURN	GRN	91311	92311	93311	94311
HOT WATER SUPPLY	GRN	91312	92312	93312	94312
HOUSE VACUUM	PUR	91309	92309	93309	
HYDRAULIC FLUID	YEL	91257	92257		
HYDROCHLORIC ACID	ORG	91313	92313		
HYDROGEN	ORG	91323	92323	93323	94323
HYDROGEN PEROXIDE	ORG	91324	92324		
HYDROGEN SULFIDE	YEL	91306	92306		
INDUSTRIAL COLD WATER	GRN	91295	92295		
INDUSTRIAL HOT WATER	GRN	91335	92335		
INDUSTRIAL WASTE	ORG	91336	92336		
INSTRUMENT AIR	GRN	91162	92162	93162	
INSTRUMENT AIR	BLU	91219	92219		
INSTRUMENT NITROGEN	BLU	91406	92406		
LO PRESS AIR	BLU	91339	92339		
LO PRESS CONDENSATE	GRN	91340	92340	93340	94340
LO PRESS GAS	YEL	91164	92164		
LO PRESS STEAM	GRN	91341	92341	93341	94341
LUBE OIL	YEL	91166	92166		
LUBE OIL RETURN	YEL	91407	92407		
LUBE OIL SUPPLY	YEL	91408	92408		
MAKE UP WATER	GRN	91167	92167		
MED PRESS CONDENSATE	GRN	91342	92342	93342	94342
MED PRESS STEAM	GRN	91343	92343	93343	94343
MEDICAL AIR	BLU	91344	92344		
MEDICAL VACUUM	WHT	91411	92411		
MILL AIR	BLU	91260	92260	93260	
MILL WATER	GRN	91261	92261	93261	94261
NATURAL GAS	YEL	91168	92168	93168	
NITROGEN	ORG	91345	92345		

Legend	Color	Style A	B	C	D
NITROGEN	BLK	91169	92169		
NITROUS OXIDE	ORG	91346	92346		
NON POTABLE WATER	GRN	91347	92347	93347	94347
OIL	YEL	91171	92171		
OIL FREE AIR	BLU	91413	92413		
OUTSIDE AIR	BLU	91329	92329	93329	
OXYGEN	BLU	91348	92348		
OXYGEN	ORG	91349	92349		
OXYGEN	GRN	91330	92330		
PLANT AIR	BLU	91350	92350		
PLANT WATER	GRN	91174	92174		
POTABLE WATER	GRN	91175	92175		
POTABLE COLD WATER	GRN	91414	92414		
POTABLE HOT WATER	GRN	91351	92351		
PROCESS WATER	YEL	91176	92176		
PROCESS WATER	GRN	91220	92220		
PROCESS COOLING WATER RET-	GRN	91416	92416	93416	94416
PROCESS COOLING WATER SUP-	GRN	91417	92417	93417	94417
PROCESS VACUUM	ORG	91352	92352		
PROPANE GAS	YEL	91177	92177		
PUMPED CONDENSATE	GRN	91353	92353	93353	
RAINWATER	GRN	91419	92419		
RAW WATER	GRN	91178	92178	93178	94178
RECIRCULATING HOT WATER	GRN	91354	92354		
REFRIGERANT	YEL	91179	92179		
REFRIGERANT LIQUID	YEL	91180	92180		
REFRIGERANT SUCTION	YEL	91181	92181		
RELIEF AIR	BLU	91281	92281	93281	
RETURN AIR	BLU	91282	92282	93282	
RETURN	ORG	91355	92355	93355	
RETURN	GRN	91183	92183	93183	
ROOF DRAIN	GRN	91184	92184	93184	
SANITARY DRAIN	GRN	91236	92236	93236	
SANITARY SEWER	GRN	91185	92185	93185	
SANITARY VENT	BLU	91356	92356		
SANITARY WASTE	GRN	91298	92298		
SEAL WATER	GRN	91267	92267		
SERVICE AIR	BLU	91357	92357		
SLUDGE	ORG	91359	92359		
SODIUM HYDROXIDE	ORG	91360	92360		
SOFT WATER	GRN	91187	92187		
STEAM	GRN	91361	92361	93361	94361
STORM DRAIN	GRN	91299	92299	93299	
STORM SEWER	GRN	91300	92300	93300	
STORM WATER	GRN	91301	92301	93301	
SUCTION	ORG	91362	92362		
SULFURIC ACID	ORG	91364	92364		
SUMP PUMP DISCHARGE	GRN	91365	92365		
SUPPLY	ORG	91366	92366	93366	94366
SUPPLY	GRN	91193	92193	93193	94193
SUPPLY AIR	BLU	91283	92283	93283	
TEMPERED WATER	GRN	91367	92367		
TOLUENE	YEL	91194	92194		
TOWER WATER	GRN	91195	92195	93195	
TOWER WATER RETURN	GRN	91319	92319	93319	
TOWER WATER SUPPLY	GRN	91320	92320	93320	
TREATED WATER	GRN	91196	92196		
ULTRA PURE WATER	GRN	91420	92420		
UTILITY NITROGEN	GRN	91421	92421		
UTILITY WATER	GRN	91422	92422		
VACUUM	ORG	91371	92371	93371	94371
VACUUM	GRN	91197	92197	93197	
VENT	BLU	91372	92372	93372	
VENT	ORG	91373	92373	93373	94373
WAGD	PUR	91432	92432		
WASTE	ORG	91374	92374		
WASTE	YEL	91202	92202		
WASTE WATER	ORG	91375	92375	93375	94375
WATER	GRN	91203	92203	93203	
WATER	YEL	91204	92204	93204	
WELL WATER	GRN	91321	92321		

MS-900 Self-Adhesive Economy Pipe Markers

- Each economy self-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 4½". Letter/arrow height is 1¼"
- Scores between markers and arrows ensure easy handling and application
- Use separately or with color banding tape for complete low-cost marking system.

Legend	Color	Part #
ACID	YEL	65101
AIR	BLU	65102
BOILER FEEDWATER	YEL	65140
CHILLED WATER	GRN	65106
CHILLED WATER RETURN	GRN	65129
CHILLED WATER SUPPLY	GRN	65130
CITY WATER	GRN	65107
COLD WATER	GRN	65108
COMPRESSED AIR	YEL	65109
CONDENSATE	YEL	65110
CONDENSATE RETURN	YEL	65141
CONDENSER WATER	GRN	65111
CONDENSER WATER RETURN	GRN	65142
CONDENSER WATER SUPPLY	GRN	65143
DEIONIZED WATER	GRN	65144
DOMESTIC COLD WATER	GRN	65131
DOMESTIC HOT WATER	YEL	65132
DRAIN	GRN	65112
EXHAUST AIR	YEL	65160
FIRE PROTECTION WATER	RED	65113
FUEL OIL	YEL	65145
GAS	YEL	65114
GLYCOL	YEL	65146
HEATING	YEL	65115
HEATING RETURN	YEL	65133
HEATING SUPPLY	YEL	65134
HEATING WATER RETURN	YEL	65156
HEATING WATER SUPPLY	YEL	65157
HI PRESS CONDENSATE	YEL	65147
HI PRESS STEAM	YEL	65148
HOT WATER	YEL	65135
HOT WATER RETURN	YEL	65136
HOT WATER SUPPLY	YEL	65137
INTAKE AIR	BLU	65161
LO PRESS CONDENSATE	YEL	65149
LO PRESS STEAM	YEL	65150
NATURAL GAS	YEL	65116
NITROGEN	GRN	65151
NON POTABLE WATER	YEL	65138
OIL	YEL	65117
OUTSIDE AIR	BLU	65162
OXYGEN	YEL	65118
POTABLE WATER	GRN	65119
RECIRCULATING HOT WATER	YEL	65159
RELIEF AIR	BLU	65163
RETURN	YEL	65120
RETURN	GRN	65121
RETURN AIR	BLU	65164
ROOF DRAIN	GRN	65152
SANITARY DRAIN	GRN	65158
SANITARY SEWER	GRN	65153
SPRINKLER WATER	RED	65122
STEAM	YEL	65123
SUPPLY	YEL	65124
SUPPLY	GRN	65125
SUPPLY AIR	BLU	65165
VACUUM	YEL	65126
VENT	YEL	65127
WASTEWATER	YEL	65154
WATER	GRN	65128

MS-900 Self-Adhesive Medical Gas Markers

MS-900 Self-Adhesive Medical Gas Markers are an economical and easy way to mark tubing or piping less than 1" in diameter. Manufactured per NFPA-99C; CGA C9-2002.

- Legend and flow direction arrows are combined on one pressure-sensitive marker
- Markers are 3" x 3" and wrap completely around the pipe for easy installation. 4" x 4" & 6" x 6" also available
- Supplied in rolls of 100, or individual pieces for ordering the exact quantity of labels you need
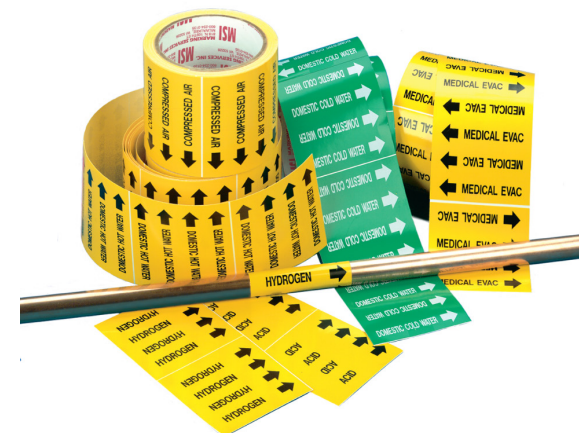
Legend	Background Color	Letter Color	Part #
CARBON DIOXIDE	GRY	WHT	68501
CARBON DIOXIDE 50 PSI	GRY	WHT	68502
HELIUM	BRN	WHT	68503
LAB AIR	YEL&WHT CHECK-	BLK	68518
LAB VAC	BLK&WHT CHECK-	BLK	68519
MEDICAL AIR	YEL	BLK	68504
MEDICAL AIR 50 PSI	YEL	BLK	68512
MEDICAL EVAC	PURP	WHT	68510
MEDICAL VACUUM	WHT	BLK	68506
NITROGEN	BLK	WHT	68507
NITROGEN 160 PSI	BLK	WHT	68514
NITROUS OXIDE	BLU	WHT	68508
NITROUS OXIDE 50 PSI	BLU	WHT	68516
OXYGEN	GRN	WHT	68509
OXYGEN 50 PSI	GRN	WHT	68517
WAGD	PUR	WHT	68511

MS-900 Self-Adhesive Markers for Tubing & Small-Bore Piping

MS-900 Self-Adhesive Tubing & Small-Bore Markers are an economical and easy way to mark tubing or piping less than 1" in diameter. Our tubing and small-bore markers are suitable for line marking identification and system color coding.

- Legend and flow direction arrows are combined on one pressure-sensitive marker
- Supplied in rolls of 100, or individual pieces for ordering the exact quantity of labels you need
- ASME A13.1-1996 colors available upon request

| Legend	Background Color	Part #
ACETYLENE	YEL	66501
ACID	YEL	66502
AIR	BLU	66503
CAUSTIC	YEL	66504
CHEMICAL FEED	YEL	66505
CHLORINE	YEL	66506
CHLORINE LIQUID	YEL	66507
CHLORINE SOLUTION	YEL	66508
CLEAN DRY AIR	BLU	66529
COMPRESSED AIR	YEL	66509
DEIONIZED WATER	GRN	66510
DEMINERALIZED WATER	GRN	66511
DOMESTIC COLD WATER	GRN	66512
DOMESTIC HOT WATER	GRN	66538
EVACUATION VACUUM	YEL	66514
GAS	YEL	66528
HELIUM	YEL	66527
HYDRAULIC OIL	YEL	66515
HYDROGEN	YEL	66516
INSTRUMENT AIR	BLU	66517
LAB AIR	YEL	66519
LAB GAS	YEL	66520
LAB VACUUM	YEL	66521
LUBE OIL	YEL	66522
NATURAL GAS	YEL	66524
PLANT AIR	BLU	66518
SAMPLE	YEL	66525
VACUUM	YEL	66526
VENT	YEL	66530

MS-900 Self-Adhesive Mini Pipe Markers

These self-adhesive mini pipe markers (style "T") are great for labeling ¼" - ¾" process lines, tool connections, or utility piping. Our mini pipe markers are suitable for line marking identification and system color-coding.

Mini pipe markers are made from a durable material with pressure-sensitive adhesive, making them easy to install. Simply clean and dry the pipe, remove the marker from the coated paper backing and place in the desired location.

- Identify 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 ½" x 2½" and sold 10 labels per sheet

Legend	Color	Part #	Legend	Color	Part #
ACETLYENE GAS	YEL	95000	HOUSE VACUUM	YEL	95037
ACID	YEL	95001	INDUSTRIAL COLD WATER	GRN	95039
ACID WASTE DRAIN	YEL	95002	INDUSTRIAL HOT WATER	YEL	95040
AMMONIA	YEL	95003	INSTRUMENT AIR	BLU	95041
AMMONIA HYDROXIDE	YEL	95004	INSTRUMENT NITROGEN	BLU	95042
ARGON	BLU	95073	ISOPROPYL ALCOHOL	YEL	95043
ARROW	YEL	95005	LUBE OIL	YEL	95044
ARROW	GRN	95006	METHANOL	YEL	95045
ARROW	BLU	95007	NATURAL GAS	YEL	95046
ARROW	RED	95008	NITROGEN	BLU	95074
BORON TRICHLORIDE	YEL	95009	NITRIC ACID	YEL	95047
BREATHING AIR	BLU	95010	NITROGEN TRIFLOURIDE	YEL	95048
CAUSTIC	YEL	95011	NITROUS OXIDE	YEL	95049
CHEMICAL FEED	YEL	95012	OIL FREE AIR	BLU	95050
CHILLED WATER RETURN	GRN	95013	OXYGEN	YEL	95051
CHILLED WATER SUPPLY	GRN	95014	OUTSIDE AIR	BLU	95052
CHLORINE	YEL	95015	OZONE	YEL	95053
CHLORINE SOLUTION	YEL	95016	PHOSPHORIC ACID	YEL	95054
CITY WATER	GRN	95017	PLANT AIR	BLU	95055
CLEAN DRY AIR	BLU	95018	PROCESS COOLING WAT	GRN	95056
COMPRESSED AIR	BLU	95019	PROCESS COOLING WAT	GRN	95057
CORROSIVE VENT	YEL	95020	PROCESSED EXHAUST	YEL	95058
DEIONIZED WATER	GRN	95021	PROCESSED VACUUM	YEL	95059
DEIONIZED WATER RETURN	GRN	95022	RO RETURN	GRN	95060
DEIONIZED WATER SUPPLY	GRN	95023	RO SUPPLY	GRN	95061
DEMINERALIZED WATER	GRN	95024	SILANE	YEL	95063
DOMESTIC COLD WATER	GRN	95025	SOLVENT RECLAIM	YEL	95075
DOMESTIC HOT WATER	YEL	95026	SOLVENT VENT	YEL	95064
ETHYLENE GLYCOL	YEL	95027	SULFUR HEXAFLOURIDE	YEL	95065
EVACUATION VACUUM	YEL	95028	SULFURIC ACID	YEL	95066
FREON	YEL	95029	ULTRA PURE NITROGEN	BLU	95072
GAS	YEL	95030	ULTRA PURE WATER DI RET	YEL	95076
HELIUM	YEL	95031	ULTRA PURE WATER DI SUP	YEL	95077
HIGH PURITY NITROGEN	YEL	95032	ULTRA PURE WATER RET	GRN	95067
HYDRAULIC OIL	YEL	95038	ULTRA PURE WATER SUP	GRN	95068
HYDROFLUORIC ACID	YEL	95033	UTILITY NITROGEN	BLU	95069
HYDROGEN	YEL	95034	UTILITY WATER	GRN	95070
HYDROGEN BROMIDE	YEL	95035	VACUUM	BLU	95071
HYDROGEN CHLORIDE	YEL	95036	WATER	GRN	95078

Note: Legends are abbreviated to fit available space
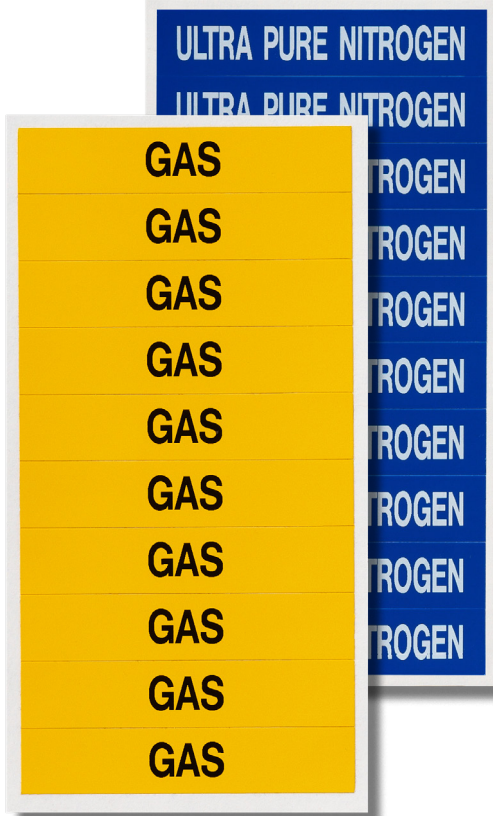
MS-900 Self-Adhesive Duct Markers with Attached Scored Arrow

Used to identify the air flow and equipment in a ductwork system.

- Highly visible color-coded labels make it easy to differentiate between different systems
- Scored arrow markers designate direction of flow
- Markers can be customized to designate the specific system or equipment of origin

Legend	Background Color	Style A	Style B	Style C	Style D
EXHAUST AIR	YEL	63005	63105	63205	63305
INTAKE AIR	BLU	63020	63120	63220	63320
OUTSIDE AIR	BLU	63009	63109	63209	63309
RELIEF AIR	BLU	63011	63111	63211	63311
RETURN AIR	BLU	63012	63112	63212	63312
SUPPLY AIR	BLU	63016	63116	63216	63316

MS-900 Self-Adhesive Plenum Duct Markers

Plenum rated duct markers are metalized self-adhesive labels tested to meet the requirements of E-84-03 "Standard Test Method" for surface burning characteristics of building materials.

- Standard plenum rated duct markers are 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
- Custom colors available

Legend	Background Color	2¼" x 13" Part #	4" x 24" Part #
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

MS-995 Curved Carrier Pipe Markers

MS-995 Curved Carrier Pipe Markers are a strap-on, rigid material pipe marker consisting of a mechanically applied MS-995 pipe label and two slotted nylon feet. The MS-995 strap-on pipe markers may be used in all applications of piping with ¾" and greater outside diameter including insulation. A coated stainless steel banding is recommended.

These carriers are of a universal design, with full length slots on the reverse side to allow for a wide variety of attachment points. The foot assembly may be strapped to the pipe prior to attaching the carrier, or the carrier assembly may be strapped as a unit to the pipe, allowing for maximum installation flexibility.

- UV Overlaminate provides excellent outdoor durability and resistance to a variety of acids, bases, and solvents
- Curved shape increases readability and reduces direct sun exposure
- Designed & tested to withstand up to 150 mph wind velocity for one hour
- Complies with ANSI 13.1
- See accessories section for mounting options

Pipe Diameter	Part #	Marker Size	Carrier Size
¾" - 1⅞"	CAR995MJ	1½" x 9"	2.2" x 10"
2" - 7⅞"	CAR995MF	2¼" x 16"	3½" x 17"
8" or greater	CAR995M	4" x 32"	5" x 33"

MS-995 High-Temperature Stainless Steel Markers

MS-995 Stainless Steel Pipe Markers are for use on piping that has a surface temperature range up to 350°F.

- Markers consist of MS-995 label mechanically applied to a flat stainless steel carrier
- Includes stand-off brackets with heat-reducing spacers to hold the printed pipe marker away from the heat of the pipe's surface
- See accessories section for mounting options
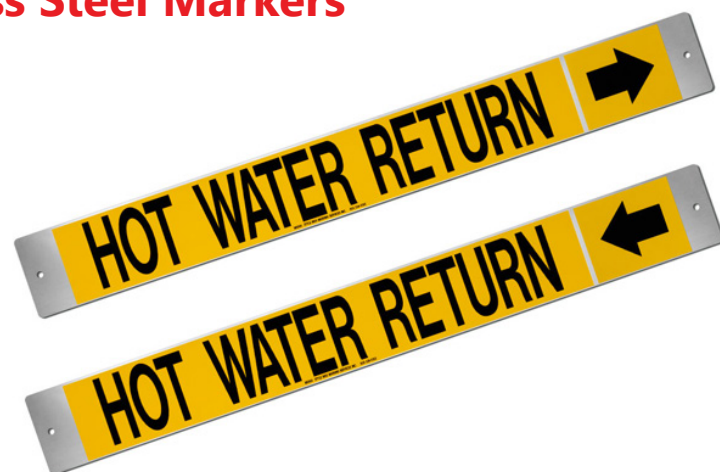
Metal Stencils

Pre-cut stencils are available for an economical way to mark piping. A variety of letter heights are available to comply with ASME A13.1 recommendations.

- Durable metal material
- Can be reused
- Customizable text

Plastic Reusable Stencils

- Can be reused
- Customizable text
- Available in several different sizes

12 oz. Spray Stencil Ink

- Permanent, quick-drying, weather resistant ink
- Provides high-contrast marking on pipes and insulation

Part #	Color
61101	Black
61101WHT	White
61101BLU	Blue
61101RED	Red
61101YEL	Yellow
61101GRN	Green
61101ORG	Orange

Ceiling Locator Tacks

Ceiling Locator Tacks are ideal for marking the location of dampers, booster coils, and controllers above acoustical ceiling tiles. Simply push equipment locator tacks into ceiling tile or insulation near closest access point.

- ⅞" ceiling tacks
- Come in packs of 25
- Serrated ceiling markers with and without removable retention disk fastener available
- Multiple colors available

TAGS

1 **Valve Tags**
Easily communicate the coding of valves, equipment, and instrumentation. Available in multiple materials such as MS-215, engraved plastic, brass, stainless steel, and aluminum.

2 **Equipment Tags**
Available in MS-215 flexible or rigid plastic, engraved plastic, stainless steel, or enameled aluminum. These tags are designed for labeling pumps, fans, air handling units & other critical equipment.

3 **Accident Prevention Tags**
Our Accident Prevention Tags draw attention to potentially dangerous or abnormal situations. They can be used for tagging equipment to convey specific characteristics, maintenance instructions, procedures, or warnings.

Engraved Plastic Valve Tags
- Engraved legend clearly shows against contrasting background, so the tags are easy to read
- Standard tags are engraved on ¹⁄₁₆″ plastic with mounting holes or adhesive backing [⅛″ thick, 3 ply also available]
- For indoor and outdoor applications
- Custom colors, sizes, and legends available
- Comes with one standard top hole

Brass Valve Tags
Brass valve tags are an effective choice for labeling valves and systems.

- Available in sequential or one-off numeric legends
- Comes with one standard top hole
- Custom sizes and legends available

Anodized Aluminum Valve Tags
Easy to read anodized aluminum valve tags provide a highly visible contrast between the engraved legend and the colored background.

- Use to tag valves, instruments, small piping, cables, or fugitive emission locations
- .032" thick tags are available in 1½″ and 2″ round or square, each with one ³⁄₁₆″ mounting hole
- Background colors available: Green, Red, Blue, Gold, Black, Orange, and Natural
- Custom sizes and legends available

Stainless Steel Valve Tags
Designed to withstand high temperatures, and corrosive or caustic substances. Provides maximum resistance to the effects of weathering and chemicals. Stainless steel valve tags and signs are available in a variety of sizes with or without holes. Type 316 stainless steel is ideal for the highly corrosive environments of process and petrochemical facilities. Tags have blackened text making it easy to read. These durable tags have text permanently engraved and are made to withstand significant handling and abrasive environments and remain completely legible.

MS-215 Valve Tags

These high-performance tags protect the graphics from environmental conditions, making them the recommended choice for harsh environments. The tags can be secured with a variety of fasteners. Reflective and photoluminescent material are available upon request.

- Rigid material protects against abrasion
- Comes with one standard top hole
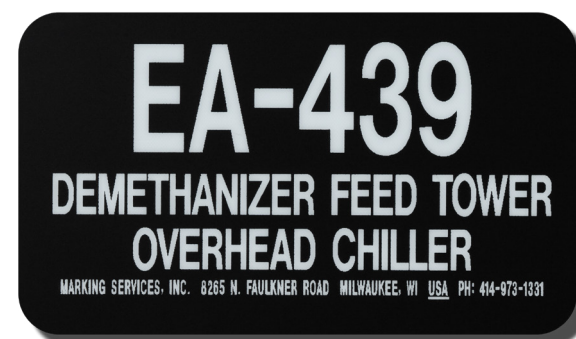- Custom colors, sizes, and legends available

Enameled Aluminum Equipment Tags

Enameled Aluminum makes aesthetically pleasing and small equipment tags. Standard uses include in-house maintenance programs, machinery numbering, building graphics, and door signs.

- Available in both black and white enamel aluminum
- White enamel is recommended for indoor use only
- Black enamel can be used indoors/outdoors
- Custom colors, sizes, and legends available

Engraved Plastic Equipment Tags

- Engraved legend provides high contrast between letter color and background color for easy visibility
- Excellent for in-house maintenance programs, building graphics and door signs
- For indoor and outdoor applications
- Standard tags are engraved on ¹⁄₁₆" plastic with mounting holes or adhesive backing [⅛" thick, 3 ply also available]
- Custom colors, sizes, and legends available

MS-215 Equipment Tags

- High-performance tags provide excellent UV and chemical resistance
- Flexible or rigid material available
- Complete printing flexibility – each unique tag can include multiple lines of text, equipment numbers, operation and maintenance instructions, safety precautions, or other critical asset information
- Available with adhesive or grommets
- Custom colors, sizes, and legends available

Stainless Steel Equipment Tags

Stainless Steel Equipment Tags are designed to withstand frequent wash downs or chemical cleanings, machinery that runs at high temperatures, and highly corrosive or caustic environments. This makes them an excellent choice for industries with harsh operating environments such as ammonia facilities, offshore rigs, and power generation. The black text is engraved for visibility as well as durability.

- Can be used indoors/outdoors
- Black engraved text
- Custom sizes and legends available

Accident Prevention Tags

Used to tag equipment for lockout during maintenance, convey characteristics specific to a piece of equipment, or detail maintenance instructions and operating procedures.

- Highly visible printed legends will remain effective both indoors and outdoors (24-month outdoor use recommended)
- Excellent protection against moisture and the effects of harsh chemical environments
- Each accident prevention tag is 5¾" x 3" standard size (custom sizes available upon request)
- Stainless steel grommets are used to increase tear resistance during use
- Come with 8" nylon ties for easy installation

ORDERING ACCIDENT PREVENTION TAGS
- Determine the four-digit part number
- To order self-laminating, add SL before the part number
- To determine which back, add 1 or 2 to the end of the part number
- EXAMPLE: To order a self-laminating ACID tag with side 1, order part #SL40021. A regular ACID tag with side 2 would be part #40022.

DANGER DO NOT REMOVE THIS TAG — TO DO SO WITHOUT AUTHORITY WILL RESULT IN IMMEDIATE DISCIPLINARY ACTION. THIS TAG IS HERE FOR A PURPOSE. SEE OTHER SIDE
Back 1

DANGER DO NOT REMOVE THIS TAG — SEE OTHER SIDE
Back 2

Self-laminating tags

DANGER ACID — Part #4002	DANGER AMMONIA — Part #4003	DANGER CAUSTIC — Part #4004	DANGER CONTAINS ASBESTOS FIBERS AVOID CREATING DUST CANCER AND LUNG DISEASE HAZARD — Part #4005	DANGER DEFECTIVE EQUIPMENT DO NOT USE — Part #4006	DANGER DO NOT CLOSE THIS VALVE — Part #4007
DANGER DO NOT DRINK THIS WATER — Part #4008	DANGER DO NOT ENTER AUTHORIZED PERSONNEL ONLY — Part #4009	DANGER DO NOT OPEN — Part #4010	DANGER DO NOT OPEN THIS VALVE — Part #4011	DANGER DO NOT OPERATE — Part #4012	DANGER DO NOT OPERATE MEN WORKING — Part #4013
DANGER DO NOT OPERATE EQUIPMENT LOCKED OUT — Part #4014	DANGER DO NOT OPERATE MAINTENANCE DEPARTMENT — Part #4016	DANGER DO NOT OPERATE MEN WORKING ON EQUIPMENT — Part #4017	DANGER DO NOT OPERATE OPERATIONS DEPARTMENT — Part #4018	DANGER DO NOT OPERATE THIS EQUIPMENT — Part #4019	DANGER DO NOT OPERATE THIS SWITCH — Part #4020

DANGER DO NOT OPERATE WITHOUT SAFETY GLASSES — Part #4021	DANGER DO NOT OPERATE WITHOUT SAFETY GLASSES AND HEARING PROTECTION — Part #4022	DANGER DO NOT START — Part #4023	DANGER DO NOT START EQUIPMENT LOCKED OUT — Part #4024	DANGER ELECTRICAL HAZARD — Part #4025	DANGER DO NOT ENERGIZE EQUIPMENT LOCKED OUT — Part #4026
DANGER EQUIPMENT LOCKED OUT — Part #4027	DANGER FLAMMABLE GAS NO SMOKING — Part #4028	DANGER HIGH VOLTAGE — Part #4029	DANGER VOLTS — Part #4030	DANGER MEN WORKING ON EQUIPMENT — Part #4031	DANGER OUT OF ORDER — Part #4032
DANGER OUT OF SERVICE — Part #4033	DANGER THIS EQUIPMENT STARTS AUTOMATICALLY — Part #4034	DANGER UNSAFE DO NOT USE — Part #4035	CAUTION — Part #4036	CAUTION DEFECTIVE EQUIPMENT DO NOT USE — Part #4037	CAUTION DO NOT OPERATE WITHOUT SAFETY GLASSES AND HEARING PROTECTION — Part #4038
CAUTION DO NOT OPERATE WITHOUT SAFETY GLASSES — Part #4039	CAUTION KEEP OUT — Part #4040	CAUTION WET PAINT — Part #4041	NOTICE — Part #4042	NOTICE OUT OF ORDER — Part #4043	NOTICE NON POTABLE WATER DO NOT DRINK — Part #4044
FIRE EXTINGUISHER MAINTENANCE RECORD — Part #4045	DANGER DO NOT OPERATE ELECTRICAL DEPARTMENT — Part #4015	DANGER — Part #4001			

Accident Prevention Tags are available with custom QR codes.

DANGER [QR code] SIGNED BY / DATE

SIGNS

1 **Equipment Signs**
Our Equipment Signs are offered in a variety of different materials for different industries. We have options to conform to regulatory & international guidelines, or completely custom options to meet your needs.

2 **GHS Signs**
Communicate health & safety, chemical, and environment information to facility personnel. With excellent resistance to environmental conditions these signs are perfect for both indoor or outdoor applications.

3 **Operational & Safety Signs**
Provides plant personnel with necessary information regarding hazard identification, operating procedures, and equipment identification. Available in a variety of materials & sizes.

Stainless Steel Signs
Stainless Steel Signs are typically used in harsh environments. They are ideal for: nameplates on machinery that continually run at high temperatures, equipment or instrument identification in highly-corrosive or caustic environments.

- Type 316 Stainless Steel
- Standard signs have round corners and mounting holes for ease of installation (adhesive available)
- Black Text is laser engraved for visibility and durability
- Available with QR codes
- Custom sizes and legends available

CIRCULATING PUMP HWP-4
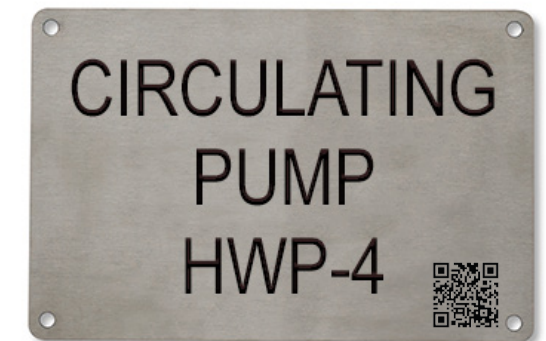
MS-215 Rigid & Flexible Signs
MS-215 Signs can be used in a variety of ways including naming and numbering tanks, vessels, or pieces of equipment.

- Flexible or rigid material available
- For mounting signs on curved surfaces, we recommend the flexible construction
- Excellent outdoor life and chemical resistance
- Available with QR codes
- Multiple mounting options available including adhesive or grommets
- Custom sizes, colors, and legends available

HYDRAULIC OIL HYD. OIL 1001

Anodized Aluminum Signs
Anodized Aluminum Signs identify critical equipment in both indoor & outdoor environments. They can also be used to show maintenance instructions, operating procedures, characteristics of a piece of equipment, as well as warn of potential danger.

- Engraved legend provides excellent contrast
- Custom sizes, colors, and legends available

EA-439
DEMETHANIZER FEED TOWER
OVERHEAD CHILLER
MARKING SERVICES, INC.   8285 N. FAULKNER ROAD MILWAUKEE, WI USA PH: 414-973-1331
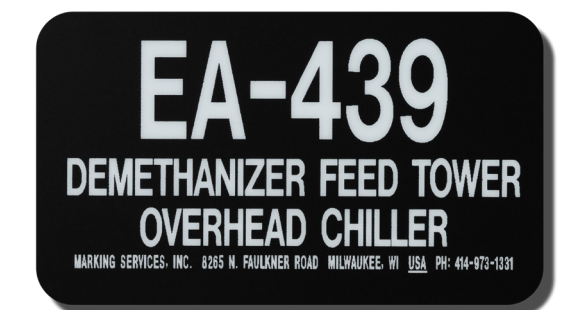
Enameled Aluminum Signs

Enameled Aluminum Signs identify critical equipment in both indoor & outdoor environments. They can also be used to show maintenance instructions, operating procedures, characteristics of a piece of equipment, as well as warn of potential danger.

- Highly visible contrast between the legend and the background
- Comes with standard ³⁄₁₆" mounting holes (adhesive available)
- Custom sizes, colors, and legends available

MS-215 GHS Signs

GHS Signs communicate information about possible health & safety situations, chemicals, and environments to facility personnel.

- Perfect for indoor or outdoor environments
- Flexible or rigid material available
- Excellent resistance to harsh environments
- Custom sizes, colors, and legends available

Engraved Plastic Signs

These bright and durable engraved plastic signs can be used for in-house maintenance programs, machinery numbering, building graphics, and door signs.

- Engraving provides high contrast between letter color and background color for easy visibility
- For indoor or outdoor applications
- Standard signs are engraved on ¹⁄₁₆" plastic with mounting holes or adhesive backing [⅛" thick, 3 ply is also available]
- Excellent resistance to harsh environments
- Custom sizes, colors, and legends available
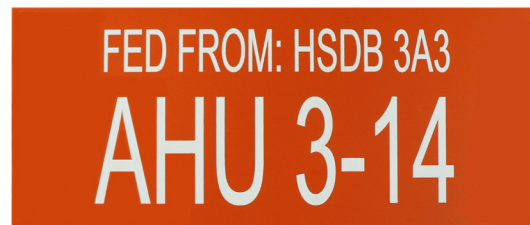
Operational & Safety Signs

Operational & Safety Signs provide plant personnel with necessary information regarding hazard identification, operating procedures, and equipment identification. A variety of pre-set legends are available. Material options are either MS-215 rigid plastic or MS-900 self-adhesive material.

- High-performance MS-215 Rigid Signs are the ideal choice for outdoor and harsh environments. (Available with grommets or adhesive)
- MS-900 Self-Adhesive Signs are ideal for environments not subject to washdown chemicals or UV exposure
- Custom material and sign options available

Sign	Size	215R	900
DANGER ACID — EYE PROTECTION AND PROTECTIVE CLOTHING REQUIRED	7"x12"	80000	82000
	10"x14"	80001	82001
	12"x20"	80002	82002
DANGER AUTHORIZED PERSONNEL ONLY	7"x12"	80003	82003
	10"x14"	80004	82004
	12"x20"	80005	82005
DANGER CAUSTIC — EYE PROTECTION AND PROTECTIVE CLOTHING REQUIRED	7"x12"	80006	82006
	10"x14"	80007	82007
	12"x20"	80008	82008
DANGER CHEMICAL UNLOADING AREA — AUTHORIZED PERSONNEL ONLY	7"x12"	80009	82009
	10"x14"	80010	82010
	12"x20"	80011	82011
DANGER CHLORINE — EYE PROTECTION AND PROTECTIVE CLOTHING REQUIRED	7"x12"	80012	82012
	10"x14"	80013	82013
	12"x20"	80014	82014
DANGER CONFINED SPACE — AUTHORIZED PERSONNEL ONLY	7"x12"	80015	82015
	10"x14"	80016	82016
	12"x20"	80017	82017
DANGER CONFINED SPACE — ENTER BY PERMIT ONLY	7"x12"	80018	82018
	10"x14"	80019	82019
	12"x20"	80020	82020
DANGER DO NOT ENTER	7"x12"	80021	82021
	10"x14"	80022	82022
	12"x20"	80023	82023
DANGER EAR PROTECTION REQUIRED BEYOND THIS POINT	7"x12"	80024	82024
	10"x14"	80025	82025
	12"x20"	80026	82026
DANGER EYE PROTECTION REQUIRED BEYOND THIS POINT	7"x12"	80027	82027
	10"x14"	80028	82028
	12"x20"	80029	82029
DANGER EAR AND EYE PROTECTION REQUIRED IN THIS AREA	7"x12"	80030	82030
	10"x14"	80031	82031
	12"x20"	80032	82032
DANGER FLAMMABLE MATERIAL — NO MATCHES OR OPEN FLAMES	7"x12"	80033	82033
	10"x14"	80034	82034
	12"x20"	80035	82035
DANGER HARD HATS REQUIRED BEYOND THIS POINT	7"x12"	80036	82036
	10"x14"	80037	82037
	12"x20"	80038	82038
DANGER HARD HAT AREA	7"x12"	80039	82039
	10"x14"	80040	82040
	12"x20"	80041	82041
DANGER HAZARDOUS AREA — AUTHORIZED PERSONNEL ONLY	7"x12"	80042	82042
	10"x14"	80043	82043
	12"x20"	80044	82044
DANGER HEARING PROTECTION REQUIRED IN THIS AREA	7"x12"	80045	82045
	10"x14"	80046	82046
	12"x20"	80047	82047
DANGER HIGH PRESSURE GAS LINE	7"x12"	80048	82048
	10"x14"	80049	82049
	12"x20"	80050	82050
DANGER HIGH VOLTAGE	7"x12"	80051	82051
	10"x14"	80052	82052
	12"x20"	80053	82053
DANGER HIGH VOLTAGE KEEP OUT	7"x12"	80054	82054
	10"x14"	80055	82055
	12"x20"	80056	82056
DANGER KEEP OUT	7"x12"	80057	82057
	10"x14"	80058	82058
	12"x20"	80059	82059
DANGER NITROGEN STORAGE AREA	7"x12"	80060	82060
	10"x14"	80061	82061
	12"x20"	80062	82062
DANGER NO SMOKING	7"x12"	80063	82063
	10"x14"	80064	82064
	12"x20"	80065	82065
DANGER NO SMOKING BEYOND THIS POINT	7"x12"	80066	82066
	10"x14"	80067	82067
	12"x20"	80068	82068
DANGER SMOKING IN DESIGNATED AREAS	7"x12"	80069	82069
	10"x14"	80070	82070
	12"x20"	80071	82071
DANGER PROPANE GAS — AUTHORIZED PERSONNEL ONLY	7"x12"	80072	82072
	10"x14"	80073	82073
	12"x20"	80074	82074
DANGER PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN IN THIS AREA	7"x12"	80075	82075
	10"x14"	80076	82076
	12"x20"	80077	82077
DANGER SULFURIC ACID — EYE PROTECTION AND PROTECTIVE CLOTHING REQUIRED	7"x12"	80078	82078
	10"x14"	80079	82079
	12"x20"	80080	82080
DANGER THIS EQUIPMENT STARTS AUTOMATICALLY	7"x12"	80081	82081
	10"x14"	80082	82082
	12"x20"	80083	82083
DANGER WATCH OUT FOR FORKLIFT TRAFFIC IN THIS AREA	7"x12"	80084	82084
	10"x14"	80085	82085
	12"x20"	80086	82086
DANGER WEAR FACE SHIELDS AND GLOVES WHEN UNLOADING CHEMICALS	7"x12"	80087	82087
	10"x14"	80088	82088
	12"x20"	80089	82089
CAUTION AUTHORIZED PERSONNEL ONLY	7"x12"	80090	82090
	10"x14"	80091	82091
	12"x20"	80092	82092
CAUTION EYE AND EAR PROTECTION MUST BE WORN IN THIS AREA	7"x12"	80093	82093
	10"x14"	80094	82094
	12"x20"	80095	82095
CAUTION FORKLIFT TRAFFIC KEEP CLEAR	7"x12"	80096	82096
	10"x14"	80097	82097
	12"x20"	80098	82098
CAUTION HARD HAT AREA	7"x12"	80099	82099
	10"x14"	80100	82100
	12"x20"	80101	82101
CAUTION SAFETY SHOES MUST BE WORN IN THIS AREA	7"x12"	80102	82102
	10"x14"	80103	82103
	12"x20"	80104	82104
NOTICE AUTHORIZED PERSONNEL ONLY	7"x12"	80105	82105
	10"x14"	80106	82106
	12"x20"	80107	82107
NOTICE HARD HATS MUST BE WORN IN THIS AREA	7"x12"	80108	82108
	10"x14"	80109	82109
	12"x20"	80110	82110
NOTICE WHEEL CHOCKS REQUIRED FOR LOADING AND UNLOADING	7"x12"	80111	82111
	10"x14"	80112	82112
	12"x20"	80113	82113
EMERGENCY EYE WASH STATION	7"x12"	80114	82114
	10"x14"	80115	82115
	12"x20"	80116	82116
EMERGENCY SAFETY SHOWER	7"x12"	80117	82117
	10"x14"	80118	82118
	12"x20"	80119	82119

Sign examples shown:

B-1 / M2.2B / 235216 / CONDENSING

DANGER — HARD HATS REQUIRED BEYOND THIS POINT

Ammonia, Anhydrous: 99.80 - 99.98 %
DANGER
(GHS label with hazard statements, precautionary statements, first aid measures, disposal information)
SEE THE S.D.S FOR MORE INFORMATION

FED FROM: HSDB 3A3
AHU 3-14

TAPE

1 Underground Warning Tape
Underground Warning Tape guards against potentially dangerous or costly scenarios while digging. Available in either detectable or non-detectable options.

2 Arrow & Banding Tape
MS-900 Self-Adhesive Arrow Tape is designed to indicate the direction of flow when used with our MS-900 Self-Adhesive Pipe Markers (page 5).

3 Safety Tape
Designed to alert people of potentially dangerous areas or situations. This highly visible tape keeps your personnel safe.

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" x 1000 ft. or 6" x 1000 ft. rolls
- Custom legends available

Legend	Text/Background Color	3" Part #	6" Part #
CAUTION BURIED ELECTRICAL LINE BELOW	BLK/RED	52201	52208
CAUTION BURIED FUEL LINE BELOW	BLK/YEL	52202	52209
CAUTION BURIED NATURAL GAS LINE BEL.OW	BLK/YEL	52203	52210
CAUTION BURIED PIPE LINE BELOW	BLK/YEL	52204	52211
CAUTION BURIED SEWER LINE BELOW	BLK/GRN	52205	52212
CAUTION BURIED STEAM LINE BELOW	BLK/YEL	52207	52213
CAUTION BURIED WATER LINE BELOW	BLK/BLU	52206	52214
CAUTION CAUTION CAUTION	BLK/YEL	51116	NA

Detectable Underground Warning Tape

Detectable Underground Warning Tape locates buried non-metallic pipes before you dig.

- Printed 4.5 mil foil lets you use any standard metal detector to quickly locate underground services
- Available in: 3" x 1000 ft. roll and 6" x 1000 ft. roll
- Recommended burial depths: 3" tape – Less than 24" deep; 6"– More than 24" deep
- Custom legends available

Legend	Text/Background Color	3" Part #	6" Part #
CAUTION BURIED ELECTRIC LINE BELOW	BLK/RED	52215	52220
CAUTION BURIED GAS LINE BELOW	BLK/YEL	52216	52221
CAUTION BURIED OXYGEN LINE BELOW	BLK/GRN	52226	52227
CAUTION BURIED PIPE LINE BELOW	BLK/YEL	52217	52222
CAUTION BURIED SEWER LINE BELOW	BLK/GRN	52218	52223
CAUTION BURIED WATER LINE BELOW	BLK/BLU	52219	52224

MS-900 Self-Adhesive Banding Tape

MS-900 Self-Adhesive Banding Tape is used when engineering specifications or customer preference require pipe color coding.

- Add UV Overlaminate for outdoor use
- Complies with MIL-SPEC 101B
- Standard sizes: 1" and 2" wide by 50 yds long
- Also available in 3", 4", and 6" wide rolls
- Self-adhesive

Color	1" x 50yd Part #	2" x 50yd Part #
YEL	96101	96201
GRN	96102	96202
RED	96103	96203
BLU	96104	96204
BRN	96015	96205
WHT	96106	96206
BLK	96107	96207
GRY	96108	96208
ORG	96109	96209
PUR	96110	96210

MS-900 Arrow Tape

Designed to indicate direction of flow when used with MS-900 pipe markers (page 5)

- Standard roll sizes are 1", 2", and 4" wide by 30 yds long
- Complies with ASME A13.1 requirement to show flow direction
- Custom sizes and colors available
- Self-adhesive

Use this chart to determine how many rolls of tape are required.

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

Size	Yellow w/ Black	Green w/ White	Red w/ White	Blue w/ White	Green w/ Black	Orange w/ Black	White w/ Black
1" x 30 yds	95101	95102	95103	95104	95105	95106	95107
2" x 30 yds	95201	95202	95203	95204	95205	95206	95207
4" x 30 yds	95401	95402	95403	95404	95405	95406	95407

"Caution Do Not Enter" Tape

- Highly visible
- Black text on yellow background
- Available in 3" x 1000 ft

CAUTION DO NOT EN

ELECTRICAL

1 **Arc Flash Labels**
These labels provide electricians and staff with information to maintain plant & worker safety. Completely customizable for your specific application.

2 **Nameplates**
Our Nameplates are offered in a variety of different materials for different electrical labeling needs. We have options to conform to regulatory & international guidelines, or completely custom options to meet your needs.

3 **Switch & Cover Plates**
Our Switch & Cover Plates provide the ideal option for marking all of your controls, circuits, and cover plates. Completely customizable to provide critical electrical information based on your specifications.

4 **Conduit & Cable Markers**
Providing you labeling options for all electrical connections, whether it is a tightly packed conduit and cable or a control panel.

5 **Cable Tray Markers**
These markers are designed to allow you to label and identify junctions, branches, and trays leading to equipment.

MS-900 Arc Flash Labels

MS-900 Self-Adhesive Arc Flash Labels are designed to mark switchboards, panel boards, industrial control panels, meter socket enclosures, and motor control centers that require either examination, adjustment, servicing, or maintenance while energized.

- The labels are made of premium grade material with an acrylic pressure-sensitive adhesive
- Labels can be preprinted with custom information provided by the customer. Customer must provide PDF artwork created to size.
- Labels comply with NFPA 70E, NEC Section 110 and OSHA safety requirements
- Add UV Overlaminate for outdoor use

MS-478 Self-Adhesive Arc Flash Labels

These premium labels are custom printed with the information and safety header for your specific application. All labels include a safety header and alert symbol. Other information can include incident energy (cal/cm2), hazard category, PPE required and boundary distances. These labels comply with the NFPA, NEC, and OSHA requirements.

- Made of pre-printed 2 mil. thick polyester
- Add UV Overlaminate for outdoor use
- Labels can be pre-printed with custom information provided by the customer. Customer must provide PDF artwork created to size
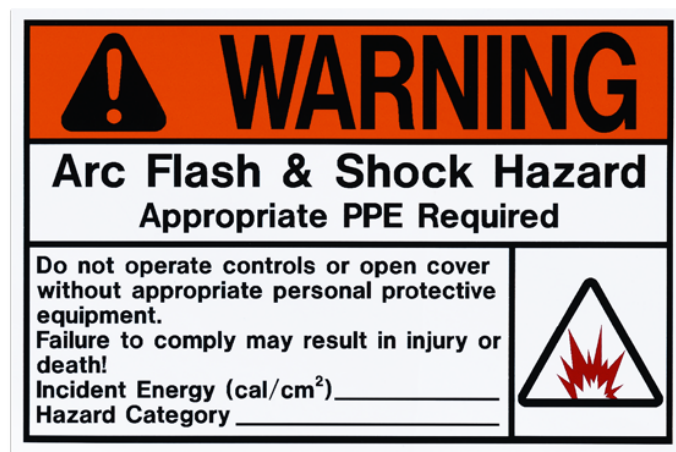
MS-215 Nameplates

- High-performance nameplates provide excellent UV and chemical resistance
- Flexible or rigid material available
- Complete printing flexibility – each unique nameplate can include multiple lines of text, equipment number, operation and maintenance instructions, safety precautions, or other critical asset information
- Available with adhesive or grommets
- Custom colors, sizes, and legends available

Engraved Plastic Nameplates

- Engraved legend provides high contrast between letter color and background color for easy visibility
- Excellent for in-house maintenance programs, building graphics, and door signs
- For indoor and outdoor applications
- Standard nameplates are engraved on 1/16" plastic with mounting holes or adhesive backing [1/8" thick, 3 ply also available]
- Custom colors, sizes, and legends available

Stainless Steel Nameplates

Stainless Steel Nameplates are designed to withstand frequent wash downs or chemical cleanings, machinery that runs at high temperatures, and highly corrosive or caustic environments. This makes them an excellent choice for electrical labeling in harsh operating environments such as ammonia facilities, offshore rigs, and power generation. The black text is engraved for visibility as well as durability.

- Can be used indoors and outdoors
- Black engraved text
- Custom sizes and legends available
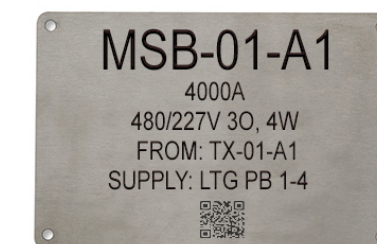
MS-478 Nameplates

MS-478 Nameplates are ideal for recording equipment information and settings with easy-to-read legends.

- Made from 2 mil. thick polyester
- Add UV Overlaminate for outdoor use
- Custom colors, sizes, and legends available
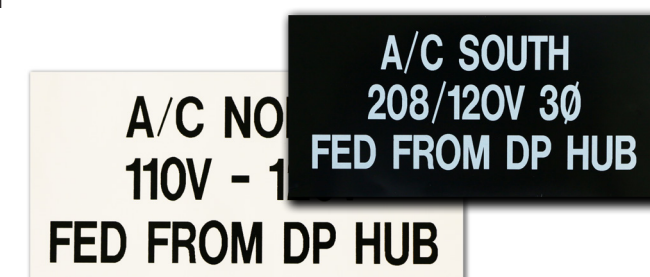
Plastic and Stainless Steel Switch & Cover Plates

Plastic and Stainless Steel Switch & Cover Plates can be engraved and color filled providing the ideal option for identifying important circuits such as those connected to emergency backup power. Customized switch plates take the mystery out of your switches by identifying critical electrical information based on your specifications.

• Multiple lines of text available
• Engraving allows for a wide variety of font choices
• Text height optional (height based on number of characters and available space)
• No minimum quantity
• For stainless steel engraved plates, our service leaves a tactile finish to the cover plates. In the event of a fire, plate identification is still legible
• We can supply plates or work with your existing ones

Rotary Switch Plates

Mark all of your controls with these switch plates for smooth, mistake-free operations. Available in all standard switch configurations. Plates are made from ¹⁄₁₆" engraved plastic.

MS-970 Coiled Data Conduit & Cable Markers

Ideal for data centers, MS-970 Coiled Data Conduit & Cable Markers are designed to efficiently and effectively mark, organize, and control the complex conduit found in data transmission, telecommunications, fiber optics, CATV, and electrical systems.

• Semi-rigid coiled markers wrap completely around conduit and remain secure without the use of adhesives
• They can be produced with or without text and with multiple color bands in a variety of custom widths
• Available in a wide variety of colors and color combinations to accommodate any project specification

Style	Conduit Diameter	Marker Width	Pieces per Stick
A	½" - 1"	2"	4
B	1⅛" - 2¼"	2"	4
C	2⅜" - 3¼"	2"	6
D	3⅜" - 4½"	2"	6
E	4⅝" - 5⅞"	2"	6

MS-995 Coiled Data Conduit & Cable Markers

MS-995 Coiled Data Conduit & Cable Markers are an excellent choice in harsh indoor or outdoor environments. These coils use color and/or text to communicate important information regarding service, end-user, or origin of conduit.

• Coils are sized to fit completely around the circumference of the conduit and adhere to themselves
• Constructed of a polyester film with UV Overlaminate, these markers provide maximum protection from UV and chemical exposure

Style	Conduit Diameter	Marker Width
A	Up to 1"	2"
B	1" - 2"	2"
D	2½" - 4"	2"
E	4½" - 6"	2"

Stainless Steel Conduit & Cable Markers

Engraved Type 316 Stainless Steel Conduit & Cable markers are designed for the highly corrosive environments of pharmaceutical manufacturing, petrochemical facilities as well as other harsh environments. Cable markers are strapped on to cable using stainless steel or nylon strapping.

MS-900 Self-Adhesive Conduit & Cable Markers

MS-900 Self-Adhesive Conduit & Cable Markers are designed for labeling conduit, panel boxes, circuit breakers, and connections to equipment.

- Black text on orange labels provide a highly visible warning of potential electrical hazards
- MS-900 self-adhesive material insures a durable, long lasting indoor marker
- Custom legends and colors available
- NOTE: ½" x 2½" labels are supplied/priced ten markers per sheet

120 VOLTS

110 VOLTS

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*Use column 5 and the sizing chart for MS-970 markers.

Stock Legend	MS-900 ½" x 2½"	MS-900 1" x 8"	MS-900 2" x 9"	MS-970 Part #'s
13,200 VOLTS	70027	71027	72027	
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	72012	
480 VOLTS	70014	71014	72014	9790-
600 VOLTS	70016	71016	72016	9791-
4160 VOLTS	70026	71026	72026	9792-
CONTROL	70028	71028	72028	9793-
DATA	70021	71021	72021	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-

Self-Laminating Wire Markers

Self-laminating wrap around wire and terminal markers are premium outdoor grade clear material with an acrylic pressure-sensitive adhesive. They are used to provide branch circuit or feeder numbers for power and lighting circuits and system color-coding.

- Can be pre-printed in custom colors including clear
- Text height based on wire size
- Markers come in sheets
- Quantity of markers per sheet dependent on size

DIS202-WIT-004-01

G-IN24 Generator G-4 G-4: First Out

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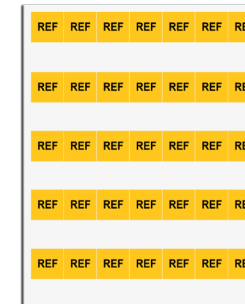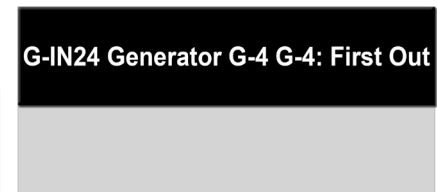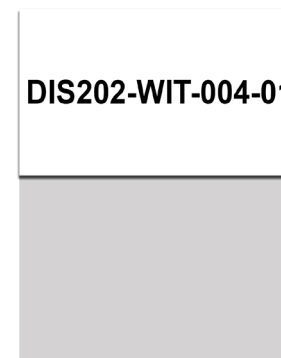
Heat Shrink Wire Markers

Wire and terminal markers are designed to provide branch circuit or feeder numbers for power and lighting circuits and system color-coding.

- Installation can be done with any heat gun
- Standard marker color is black on white
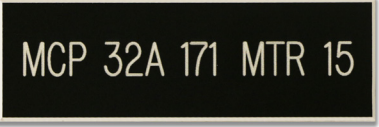- Custom colors and legends available

MSI-3108-015

MS-970 Coiled Conduit & Cable Markers

MS-970 Coiled Conduit & Cable Markers are designed to eliminate the confusion of tightly packed conduit and cable. The coiled design allows them to quickly snap around conduit or cable, clearly identifying voltages or functions. The durable material allows for maximum life in an indoor environment.

- Indoor use only
- No adhesive necessary

THREE PHASE

120/208 VOLTS

Style	Diameter
A	½" - 1"
B	1⅛" - 2¼"
C	2⅜" - 3¼"
D	3⅜" - 4½"
E	4⅝" - 5⅞"

Use this chart for MS-970 Part #'s

ORDER MS-970 Pipe Markers

- Determine the four-digit part number for each legend
- Use the marker style table above to determine appropriate size and add corresponding letter to end of part #
- EXAMPLE: The marker "110 Volts" for 2" diameter would be part number 9780B
- Contact us for custom markers

See our full
Electrical Identification
product offerings

MS-264 Engraved Plastic Cable Markers

Ideal for labeling electrical cables in control panels, these markers display engraved legends that are easily legible. They are designed with a matte finish, beveled edges, and notches for secure installation using standard 50lb cable ties.

- Engraved plastic material has excellent resistance to harsh environments
- Can replace phenolic material
- Custom sizes, colors, and legends available
- Electrically non-conductive engraved plastic available

MCP 32A 171 MTR 15

MS-215 Cable Tray Markers

These cable tray markers are constructed of printed graphics sealed between layers of chemical resistant plastic. The durable material provides excellent resistance to harsh environments.

- Flexible or rigid material available
- Excellent resistance to UV exposure, abrasion, water, and harsh chemicals
- Flexible material is able to be mounted on curved surfaces
- Custom sizes, colors, and legends available

COMMUNICATION CABLE ONLY

MS-478 Cable Tray Markers

MS-478 Cable Tray Markers are the ideal solution for identifying smooth sided cable trays. Add UV Overlaminate for maximum protection against UV exposure and chemicals.

- Self-adhesive
- Easy installation with minimal surface preparation
- Custom sizes, colors, and legends available

CAB-015-200

MS-900 Self-Adhesive Cable Tray Markers

These markers are designed to allow you to label and identify junctions, branches, and trays leading to equipment. The self-adhesive material conforms to the shape of your tray and is easily applied with minimal preparation. Add UV Overlaminate for maximum protection against UV exposure and chemicals.

- Excellent option for indoor labeling
- Custom sizes, colors, and legends available

AL3-050-215

FIRE PROTECTION

1   **Fire ID Pipe Markers**
These markers are used to identify the fire protection piping. The coiled design allows for easy installation by wrapping around the pipe and self-sealing.

2   **Fire ID Labels & Signs**
Fire ID labels provide crucial information for access doors, fire risers & sprinklers to assist personnel in emergency response.

MS-970 Coiled Pipe Markers

MS-970 Coiled Pipe Markers are constructed of semi-rigid material and are designed to identify piping in a wide variety of environments, especially in applications where the pipe surface is rough, oily, or wet. They stay in place on pipes due to the memory of the coiling process and do not rely on adhesives. Complies with ASME A13.1.

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

Pipe Diameter	Marker Style	Marker Width	Character Height	Marker Type
¼" - ⅜"	TM	3"	¼"	coiled
½" - 1"	A	8"	½"	coiled
1⅛" - 2¼"	B	8"	¾"	coiled
2⅜" - 3¼"	C	12"	1¼"	coiled
3⅜" - 4½"	D	12"	1¼"	coiled
4⅝" - 5⅞"	E	12"	1¼"	coiled
6" - 7⅞"	F	12"	1¼"	strap-on
8" - 10"	G	24"	2½"	strap-on
over 10"	H	34"	3½"	strap-on

Legend	Color	Part #
FIRE PROTECTION WATER	RED	9826
FIRE SPRINKLER WATER	RED	9736

MS-900 Self-Adhesive Fire Damper & Access Door Labels

Use MS-900 labels to identify the fire protection piping and fire damper access doors.

- Self-adhesive labels simply adhere to the surface with minimal preparation
- Labels can be customized to designate the specific system or zone
- Sizes and colors comply with the NFPA Standard

FIRE PROTECTION WATER

FIRE/SMOKE DAMPER

Legend	Size	Color	Part #
FIRE DAMPER ACCESS DOOR	3" x 3"	RED	67000
FIRE/SMOKE DAMPER ACCESS DOOR	3" x 3"	RED	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

MS-900 Self-Adhesive Fire Riser & Sprinkler Labels

- Identifies each riser to isolate for testing/maintenance
- 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
- Self-adhesive

R-3

R-3 CVS-1

R-3 CVS-1
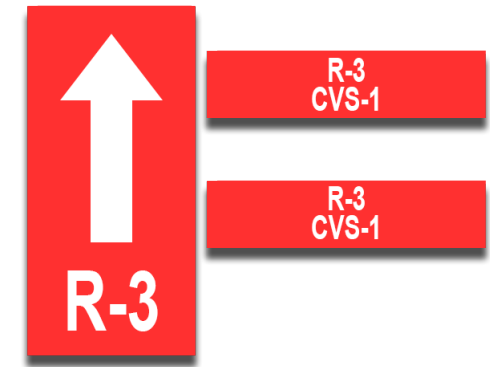
Engraved Plastic Access Door Signs

- Engraving provides high contrast between letter color and background color for easy visibility
- Standard tags are engraved on ¹⁄₁₆" plastic with mounting holes or adhesive backing
- Custom sizes, colors, and legends available

FIRE/SMOKE

White Enameled Aluminum Fire ID Signs

Aluminum fire ID signs identify critical equipment and locations. The enamel background makes an easy to read and aesthetically pleasing equipment sign.

- Variety of mounting options available
- Custom sizes, colors, and legends available
- For indoor or outdoor use

SPRINKLER VALVE

STANDPIPE

FDC

See our full **Fire Protection Identification** product offerings

SOLAR

1

Solar Placards
Solar Placards are designed to withstand the harshest environments. Available in engraved plastic, MS-900 self-adhesive, or MS-215 material, they can be completely customized to meet project specifications.

2

Solar Sitemaps
Used to map out the equipment and layout of a solar site. These highly customized sitemaps are made with the exact specifications provided to us.

3

Solar Wire Markers
Used for labeling wires and terminals. These are an excellent choice for color-coding, identifying, and differentiating wires on a site.

4

Solar Labels & Signs
Available in multiple materials, our Solar Labels & Signs have a variety of pre-set or custom options. From job site information to warnings, these signs and labels are an excellent choice for any photovoltaic labeling.

MS-215 Rigid Solar Placards

MS-215 Rigid Solar Placards are the ideal choice for photovoltaic labeling on your next solar project. They are constructed of printed graphics sealed between layers of chemical resistant plastic. The top layer is a durable thermoplastic that provides excellent resistance to process chemicals, protection from abrasion, and functions as a UV filter to prevent fading of printing and graphics.

- Excellent outdoor life and chemical resistance
- Available with QR codes
- Adhesive mounting
- Custom sizes, colors, and legends available

⚠ **WARNING:** ⚠
DUAL POWER SUPPLY
SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

MS-215 Rigid "Warning" Solar Placards

MS-215 Rigid "Warning" Solar Placards are the ideal choice for photovoltaic labeling on your next solar project. They are constructed of printed graphics sealed between layers of chemical resistant plastic. The top layer is a durable thermoplastic that provides excellent resistance to process chemicals, protection from high impact, and functions as a UV filter to prevent fading of printing and graphics.

- Fixed "Warning" header

⚠ **WARNING**
ELECTRICAL SHOCK HAZARD
THE DIRECT CURRENT CIRCUIT CONDUCTORS OF THIS PHOTOVOLTAIC POWER SYSTEM ARE UNGROUNDED BUT MAY BE ENERGIZED WITH RESPECT TO GROUND DUE TO LEAKAGE PATHS AND/OR GROUND FAULTS.
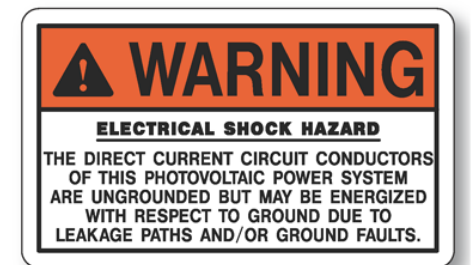
Engraved Plastic Solar Placards

These durable placards are an excellent choice for PV labeling. The engraved legend provides excellent contrast against the background of the placard. Placards come with adhesive backing, and surface preparation is recommended before application.

- Excellent outdoor life and abrasion resistance
- Adhesive mounting
- Custom sizes, colors, and legends available

PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

Engraved Plastic "Warning" Solar Placards

These durable placards are an excellent choice for PV labeling. The engraved legend provides excellent contrast against the background of the sign. Placards can be used indoor or outdoor and come with adhesive backing. Surface preparation is recommended before application.

- Fixed "Warning" header

⚠ **WARNING!**
ELECTRIC SHOCK HAZARD.
DO NOT TOUCH TERMINALS.
TERMINALS ON BOTH THE LINE
AND LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION.
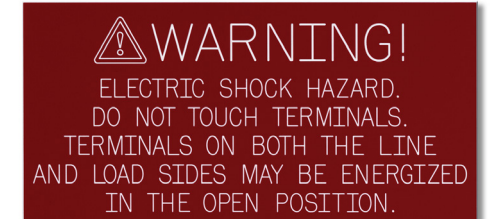
MS-215 Solar Sitemaps

Used to map out the equipment and layout of a solar site. These highly customizable sitemaps are extremely durable and can be made to exact specifications.

- Excellent outdoor life and chemical resistance
- Available with QR codes
- Manufactured with a customer provided PDF
- Custom sizes and colors available
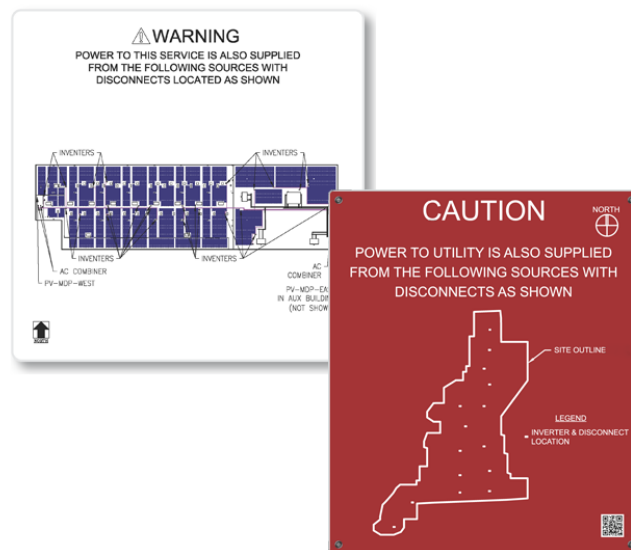
Engraved Plastic Solar Sitemaps

Used to map out the equipment and layout of a solar site. These highly customizable sitemaps are extremely durable and can be made to exact specifications. The engraved design provides a durable option for long-term use.

- Engraved legend provides excellent contrast against the background of the sitemap
- Excellent outdoor life and abrasion resistance
- Custom sizes and colors available

MS-900 Self-Adhesive Solar Sitemaps

Used to map out the equipment and layout of a solar site. These highly customizable sitemaps are extremely durable and can be made to exact specifications.

- UV Overlaminate included for outdoor use
- Excellent resistance to UV exposure
- Easy installation with minimal surface preparation
- Custom sizes and colors available
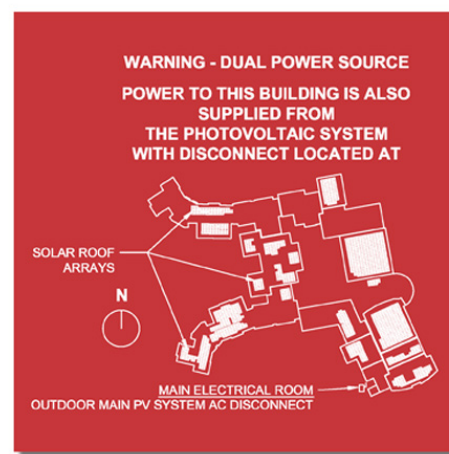
Self-Laminating Solar Wire Markers

Self-laminating wrap around wire and terminal markers are made from premium outdoor grade clear material with an acrylic pressure-sensitive adhesive. They are used to provide branch circuit or feeder numbers for power and lighting circuits and system color-coding.

- Can be pre-printed in custom colors including clear
- Text height based on wire size
- Markers come in sheets
- Quantity of markers per sheet depends on size
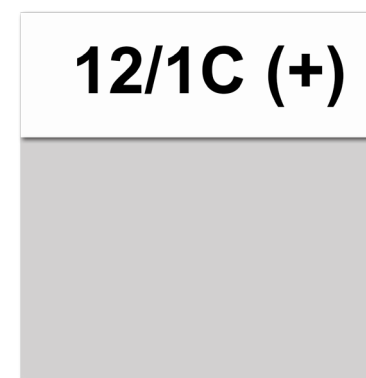
Heat Shrink Solar Wire Markers

Wire and terminal markers are designed to provide branch circuit or feeder numbers for power and lighting circuits and system color-coding.

- Installation can be done with any heat gun
- Standard marker color is black on white
- Custom colors and legends available
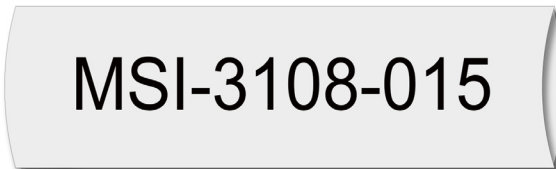
See our full
Solor Energy Identification
product offerings

MS-900 Self-Adhesive Solar Labels

MS-900 Self-Adhesive Solar Labels with UV Overlaminate are an excellent choice for photovoltaic labeling. The self-adhesive design allows for easy installation with limited surface preparation, the UV Overlaminate gives great outdoor durability and extended life.

- Self-adhesive
- UV Overlaminate included for outdoor durability
- Custom size, colors, and legends available
- NEC compliant

WARNING: PHOTOVOLTAIC POWER SOURCE

MS-900 "Warning" Self-Adhesive Solar Labels

Available in a variety of pre-set or custom options with a fixed "Warning" header. They can be easily installed with minimal surface preparation. Labels come with standard UV Overlaminate, protecting them from UV exposure and making them a durable option for outdoor labeling needs.

- Self-adhesive
- UV Overlaminate included
- Variety of pre-set legends
- Custom size, colors, and legends available
- NEC compliant

⚠ WARNING ⚡

ELECTRICAL SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

Aluminum Solar Signs

These custom signs are ideal for keeping a job site safe and informed. Each sign comes coated with our high-performance proprietary and environmentally friendly Rugged-Kote surface treatment, making them a capable outdoor sign. Signs come standard with 4 corner holes, allowing them to be easily attached to fences or gates with a fastener. Other mounting options available upon request.

- Rugged-Kote included on all signs
- Excellent resistance to UV exposure
- Easy installation
- Custom size, colors, and legends available

DANGER

HIGH VOLTAGE

KEEP OUT

PHOTOVOLTAIC ARRAY

AUTHORIZED PERSONNEL ONLY

AMMONIA

1 **Ammonia Pipe Markers**
Available in our MS-900 or MS-995 material, these IIAR compliant markers are ideal for cold storage areas, or any other ammonia environment.

2 **Component Markers**
Available in MS-215 or MS-900 material, these durable Component Markers are an IIAR compliant solution to label your ammonia equipment.

3 **Ammonia Signage**
Made with our MS-215 material these charts and signs are designed to withstand harsh ammonia environments and keep your personnel safe and informed.

Ammonia Refrigeration Marker Layout

1	2	2	3 AMMONIA	4	5

Each marker has five information parts
1. Ammonia piping abbreviation section
2. Physical State: LIQ (Orange or Yellow) and/or VAP (Blue)
3. Ammonia: black letters on Orange or Yellow background
4. Pressure Level: LOW (70 PSIG or less) = Green
   HIGH (greater than 70 PSIG) = Red
5. Directional arrow (printed on marker) - scored

MS-995 Coiled & Carrier Ammonia Markers

These maximum performance pipe markers can stand up to high heat, harsh chemicals, and direct exposure to sunlight, which makes them an excellent choice for an ammonia environment.

- Construction provides proven protection from effects of direct sunlight
- Pipe markers can be removed or reinstalled
- Pre-coiled pipe markers install easily by wrapping completely around pipe and affixing to themselves [not the pipe surface] with a sealing strip, eliminating the need for surface preparation
- Available in Yellow and Safety Orange per the revised IIAR Bulletin 114
- The MF, MJ, and M markers consist of a legend label applied to a durable carrier. Markers are attached to larger diameter pipes using stainless steel straps. They are designed for easy installation and high visibility on rooftop or elevated piping. Locking tool for coil straps available for purchase (see accessories & mounting options section).

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

Outside Diameter (Including Insulation)	Marker Style	Marker Width (around pipe)	Marker Length (along pipe)
Up to 1¼"	A	5"	8"
¾" - 2"	B	9"	8"
2" - 2½"	C	12"	12"
2¾" - 4¾"	D	17"	12"
5" - 7⅞"	E	26"	12"

Outside Diameter (Including Insulation)	Marker Style	Carrier Size	Label Height
¾" - 1⅞"	MJ	2.2" x 10"	1½" x 9"
2" - 7⅞"	MF	3½" x 17"	2½" x 16"
8" and up	M	5" x 33"	4½" x 32"

*Use this chart for carrier markers

MS-900 Self-Adhesive Ammonia Pipe Markers

The premium self-adhesive material allows these markers to be easily installed with minimal surface preparation. The scored arrow conveniently eliminates the need to determine direction of flow prior to ordering. Follows the revised IIAR Bulletin 114.

- Add UV Overlaminate for outdoor use
- Custom legends, sizes, and bands available

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

Outside Diameter (Including Insulation)	Marker Style (Orange)
<1¼"	A1
1½" - 2"	A2
2¼" - 7⅞"	A3
8" - 10"	A4
>10"	A5

Outside Diameter (Including Insulation)	Marker Style (Yellow)
¾" - 2⅜"	AAL
2½" - 7⅞"	ABL
8" - 10"	ACL
>10"	ADL

MS-900 Self-Adhesive Component Markers

IIAR compliant component markers include black letters on a yellow or orange background with a high-or low-pressure band.

- Add UV Overlaminate for outdoor use
- Easy installation with minimal surface preparation

MS-215 Component Markers

IIAR compliant component markers include black letters on a yellow or orange background with a high or low pressure band. Available in flexible or rigid material with adhesive or magnetic backing.

- Excellent resistance to: UV exposure, chemicals, water, and abrasion
- Can be used on a variety of surfaces including curved
- Custom sizes and legends available

MS-215 Rigid Auxiliary/Principal Door Signs

Auxiliary/Principal Door Signs are placed at all entrances to machinery rooms. These signs are specifically designed to provide a clear hazard warning for employees in food processing plants, mills, and cold storage facilities.

- Designed with MS-215 rigid material to withstand harsh environments
- Follow ANSI/IIAR 2-2008 standards (including Addendum A) for the identification of piping, valves, and components
- Custom sizes, colors, and legends available

Legend	Part #
3,3,0	65507
3,1,0	65508

CAUTION
AMMONIA
R-717

Size	Part #
6"x10"	65405
7"x12"	65505

REFRIGERATION MACHINERY ROOM
AUTHORIZED PERSONNEL ONLY

Size	Part #
6"x10"	65402
7"x12"	65502

REFRIGERATION MACHINERY ROOM SHUT DOWN
EMERGENCY USE ONLY
BREAK GLASS TO PUSH BUTTON

Size	Part #
6"x10"	65403
7"x12"	65503

CAUTION
EYE AND EAR PROTECTION REQUIRED IN THIS AREA

Size	Part #
6"x10"	65404
7"x12"	65504

REFRIGERATION MACHINERY ROOM VENTILATION
EMERGENCY USE ONLY

Size	Part #
6"x10"	65406
7"x12"	65506

⚠ WARNING
WHEN ALARMS ARE ACTIVATED AMMONIA HAS BEEN DETECTED
1. LEAVE ROOM IMMEDIATELY
2. DO NOT ENTER EXCEPT BY TRAINED & AUTHORIZED PERSONNEL
3. DO NOT ENTER WITHOUT PERSONAL PROTECTIVE EQUIPMENT

Size	Part #
6"x10"	65401
7"x12"	65501

See our full
Ammonia Identification
product offerings

MS-215 Rigid Ammonia Wall Charts

These PSM approved ammonia wall charts can be used as authorized by installation and repair contractors. They convey information regarding emergency contacts, shut down procedures, safety warnings, and system changes.

- Custom sliders can be requested for frequent text and content changes
- Designed with MS-215 rigid material to withstand harsh environments
- Multiple mounting options available
- Orange and yellow options available

MS-215 Rigid Refrigeration Contractor Signs

PSM approved contractor signs are used to convey contractor contact info, chemicals, and other information like design pressures and total system charge in lbs. The signs are placed directly on the containers or areas where potentially dangerous chemicals are used.

- Custom sliders can be requested for frequent text and content changes
- Designed with MS-215 rigid material to withstand harsh environments
- Multiple mounting options available

MS-215 Ammonia Tank & Vessel Signs

These signs are designed to name and number each tank and vessel. Available in both rigid and flexible materials. The flexible material easily conforms to curved surfaces and is mounted using our heavy-duty adhesive.

- MS-215 material provides excellent resistance to harsh environments
- Multiple mounting options available
- Customizable
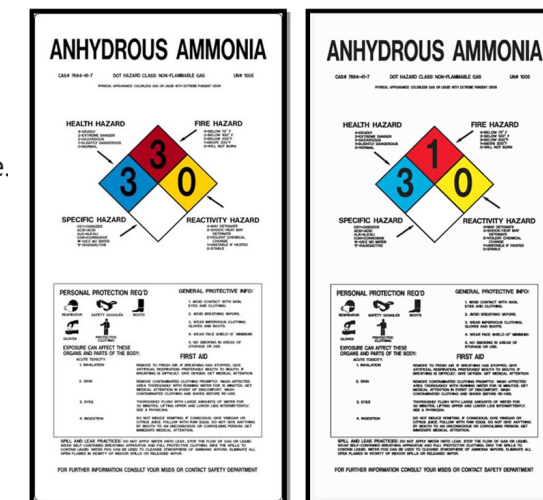
MARINE & OFFSHORE

1 Pipe Markers
Designed to withstand direct sunlight, saltwater, and chemicals, our premium coiled and carrier pipe markers are the ideal choice for a marine & offshore environment.

2 Safety Signs & Operation Boards
These signs and boards provide critical information regarding hazard identification, operating procedures, equipment identification, and evacuation & escape procedures.

3 IMO & Egress Signs
Specifies important safety and operational information to on-board personnel in a direct manner to provide faster user response time. Our IMO & Egress Signs are photoluminescent and provide critical information for personnel in the event of an emergency where low-light visibility is needed.

4 Equipment Signs & Tags
Equipment Signs & Tags are an integral part of any safety system that aims to reduce the risk related to spills, accidents, and injuries from improper use within the installation.

Specializing in regulatory compliance solutions for global standards (US Coast Guard, NORSOK, Mexico NORMS, Brazil NR, etc.), we have established a standardized signage system that communicates effective safety information to people who travel and work on-board ships and other marine installations.

We have the capability to do offshore gap analysis surveys to ensure that your installation is operationally ready.

MS-995 Coiled & Carrier Marine & Offshore Pipe Markers

MS-995 Pipe Markers are maximum performance pipe markers that stand up to high heat, harsh chemicals, and direct exposure to sunlight, which makes them an excellent choice for a marine & offshore environment.

• Specifies content, to and from information, and directional flow
• Color-coded for easy identification
• Construction provides proven protection from effects of direct sunlight
• Service temperature range from -40° F to 250° F
• Eliminates need for pipe surface preparation
• Can be removed and reinstalled
• High temperature and oversized markers are also available
• 5+ years expected outdoor durability

MS-995 Pre-Coiled Pipe Marker
MS-995 Pre-Coiled Pipe Markers install easily by wrapping completely around pipe and affixing to themselves [not the pipe surface] with a sealing strip. Recommended use on insulated pipes.

MS-995 Carrier Pipe Marker
These markers consist of a legend label applied to a durable carrier. Markers are attached to larger diameter pipes using coated stainless steel straps (see accessories & mounting options section). They are designed for easy installation and high visibility on elevated piping. Recommended use on non-insulated pipes.

PROCESS LIQUID
FROM 97-MBD61254 TO NBD 61260
MS995   STYLE MBJ   MARKING SERVICES INC.   CUSTOMER.SUPPORT@MARKSERV.COM

DIESEL
6"-11-P35-13A-V   FROM 1113-C TO UNIT 70

Safety Signs and Operation Boards are imperative to convey mandatory warning and prohibition messages to ensure safe work practices. Designed with MS-215R, MS-215F, or Aluminum Composite material, they can be magnetic backed, magnetic receptive, or dry erase. We offer operation board packages specific for jack up, drillshops, semi subs, etc.
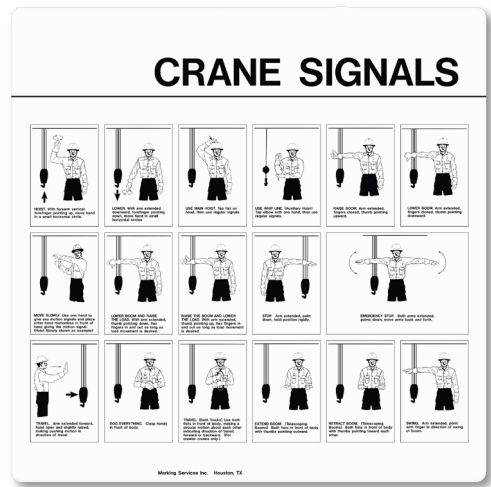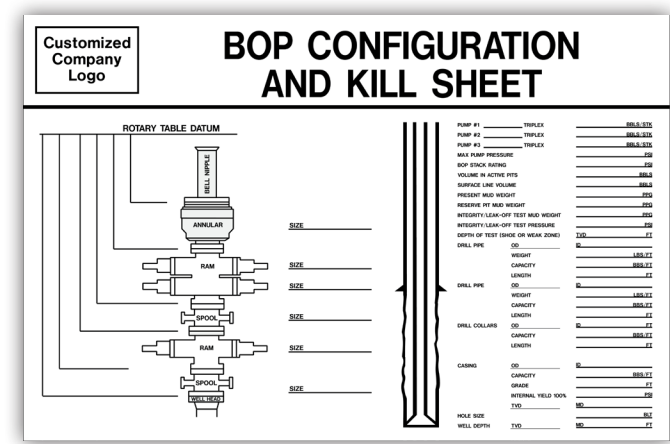
- Signs can be customized with logo or specific data
- Indoor or outdoor usage
- Material can vary
- Custom sizes available
- Dual language sliders/solutions available

Compartment Boards
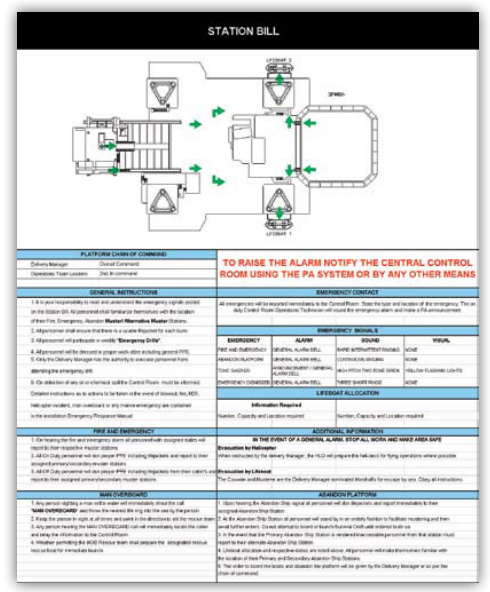
Regulatory Signs

Custom Operation Boards

Instructional Boards
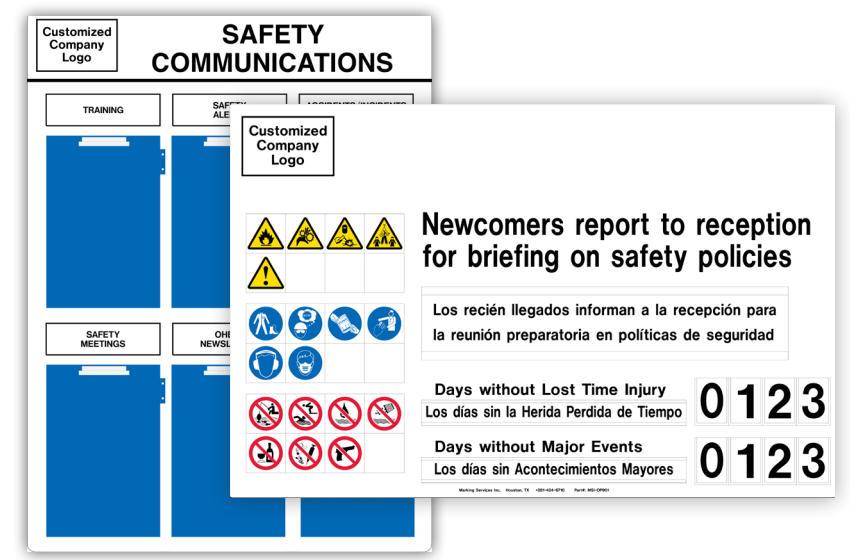
Communication Boards

Safety Signs

MS-215 Photoluminescent IMO & Egress Signs

Based on Fire Control and Life Saving Plans, we will develop the bill of materials to ensure your facility meets regulatory requirements. Designed with our MS-215 photoluminescent material, these durable signs are used to ensure visibility in the case of a power outage.

- Comply with IMO/SOLAS requirements
- Excellent outdoor life and chemical resistance

MS-215 Rigid & Flexible Equipment Signs

MS-215 Signs can be used in a variety of ways including naming and numbering tanks, vessels, or pieces of equipment.

- Excellent outdoor life and chemical resistance
- Available with QR codes
- Multiple mounting options available including adhesive, grommets, or strapping
- Custom sizes, colors, and legends available

60-T-001A
FIRE WATER STORAGE TANK
P10002-50-PR-PD-0004

60-P-001A
FIRE WATER ELECTRIC DRIVEN PUMP
P00002-60-PR-PD-0002

MS-215 Carrier Equipment Tags

- Excellent outdoor life and chemical resistance
- Available with QR codes
- Designed for easy installation and high visibility
- Curved design is ideal for utilization on curved surfaces
- Custom sizes, colors, and legends available
- See page 16 for stainless steel, MS-215, and other tag options

LCV-210604A
AUTOMATIC TRAP ON COMPRESSOR
P&ID A554-K-PRG-IM-GEN-PSO-003
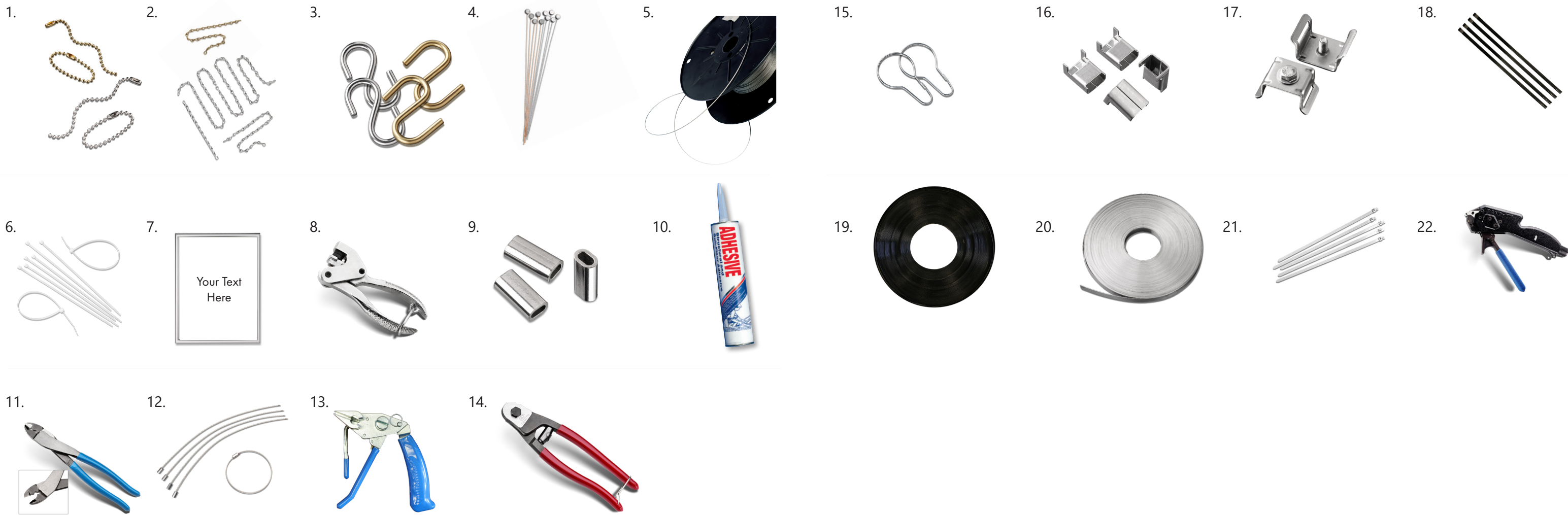
FIRE PLAN

CO$_2$

Stainless Steel T-Card Box with Muster Board

Located at lifeboat and life raft muster stations, designed to provide assembly points and designate personnel to muster in case of an emergency.

LIFEBOAT 1

T-CARD BOX 72 SLOTS

See our full **Marine & Offshore** Identification product offerings

1.

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Your Text Here

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14.
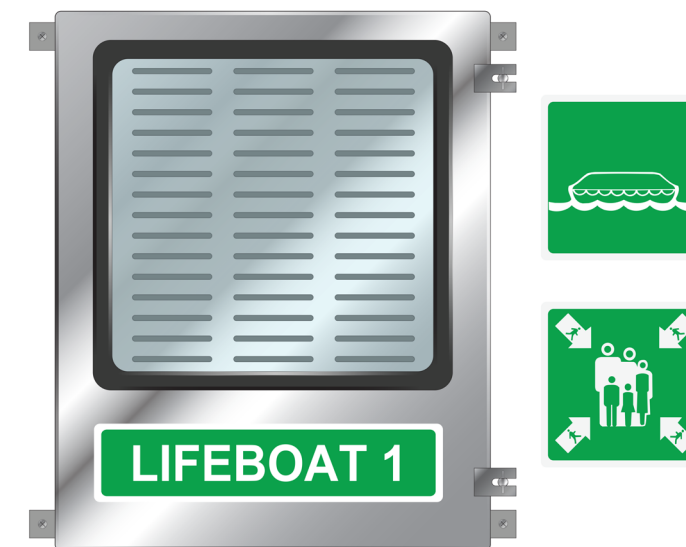
1. Bead Chain (Brass & Stainless Steel)
- Flexible chain in 4½" lengths including locking link
- 100 lengths per bag
- Brass Part #15765
- Stainless Steel Part #15766

2. Jack Chain (Brass & Stainless Steel)
- Durable chain for fastening valve tags
- Packed 50 feet / box to hang approximately 60 tags
- Brass Part #15760
- Stainless Steel Part #15761

3. "S" Hooks (Brass & Stainless Steel)
- Sturdy, easy to close hooks for attaching valve tags
- 100 hooks per bag
- Brass Part #15770
- Stainless Steel Part #15767

4. Lead Meter Seals
- Fast, permanent way to attach valve tags
- Supplied in 10" lengths
- 100 lengths per pack
- Copper Part #15795
- Stainless Steel Part #15797

5. Stainless Steel Braided Wire
- 100' roll
- Type 316 stainless steel
- Part #15747

6. 8" Nylon Tag Ties
- Simple, quick way to attach valve tags
- 100 ties per bag
- Part #15785

7. Valve Chart Frame
- Aluminum frame holds 8½" x 11" valve chart
- Durable and easy to install
- Part #15790 - Plastic Lens
- Part #15791 - Glass Lens

8. Sealing Press
- Tool for sealing lead meter seals
- Part #15796

9. Stainless Steel Swage Sleeves
- 100 per bag
- Type 316 stainless steel
- Part #15746

10. Construction Adhesive
- 10.2 oz tube
- Fits most caulk guns
- Heavy Duty Part #15769

11. Crimp Tool
- Crimping tool for 10" wire crimp combo
- Part #15749

12. 10" Wire/Crimp Combo
- 10" wire with crimp
- Part #15750

13. Locking Tool for Coil Strap
- Use to tighten and lock stainless steel banding during installation
- Part #15716

14. Cable Wire Cutter
- Use during the installation of markers, valve tags and signs
- Part #15748

15. Zinc Snap Hook Fasteners
- 2.5", 100 per box
- Open and close snap hooks
- Part #15798

16. Locking Clips for Strap
- Stainless steel clips designed to be used with coiled strapping
- Packaged 100 per bag
- $3/8$" size for uncoated strap use (Part #15734)
- ¼" size for coated strap use (Part #15728)

17. Stainless Steel Mounting Brackets - High Heat
- Used to mount signs or pipe markers onto piping or tanks
- Bolt and hardware included
- Use stainless steel straps to affix
- Part #15607

18. Pre-Cut Coated Stainless Steel Straps
- Cut-to-length stainless steel straps for use with carrier style markers
- Durable ¼" wide
- Use with locking tool #15716

Part #	Pipe Diameter	Size
15703	Up to 2 ½"	16"
15700	3" - 4 ¾"	24"
15701	5" - 8"	33"
157014	9" - 12"	46"
157016	13" - 18"	65"

19. Coated Coil of Strapping
- 100' coil of ¼" steel
- Used for attaching carrier pipe markers
- Locking Clip #15728 and Locking Tool #15716 available for ease on installation
- Part #15727

20. Coil of Strapping
- 100' coil of $3/8$" steel
- Used for attaching carrier pipe markers
- Locking Clip #15734 & Locking Tool #15716 available for ease of installation
- Part #15729

21. Pre-Cut Stainless Steel Strapping
- Cut-to-length, ¼" wide
- Comes with attached locking head, no clips required
- Use with locking tool part #15715

Part #	Pipe Diameter	Size
15704	Up to 2 ½"	10"
15707	3" - 4 ¾"	16.5"
15710	5" - 8"	35"
15711	9" - 12"	47"
157712	13" - 18"	60"

22. Locking Tool for Coil Strap
- Use to tighten and lock pre-cut stainless steel strapping
- Part #15715

CORPORATE HEADQUARTERS
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Milwaukee, Wisconsin 53224
800.234.0135
414.973.1331
sales@markserv.com
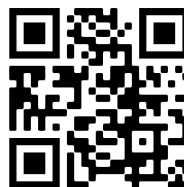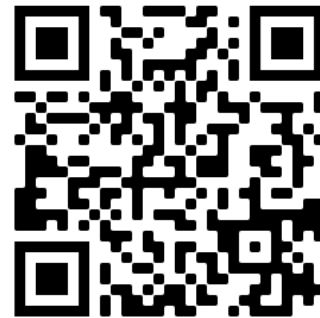
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