

Маркеры и компоненты для аммиачных труб IIR

Технические характеристики

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IIAR Ammonia Refrigeration Pipe Markers

The International Institute of Ammonia Refrigeration (IIAR) standardizes pipe labeling for Ammonia Refrigeration Piping and System Components.



Ammonia piping abbreviation
*See chart below

Physical state of the refrigerant:
Liquid (LIQ)
black or white on yellow
Vapor (VAP)
black or white on sky blue
Both (LIQ and VAP)
both in colors listed above

Marker body
AMMONIA in black letters on orange background

Pressure level of the refrigerant:
HIGH
black or white on red
LOW
black or white on green
HIGH and LOW
both in colors listed above

Ammonia piping abbreviations

Abbr.	System	Abbr.	System
BD	Booster Discharge	LTRL	Low Temp. Recirculated Liquid
CD	Condenser	LTS*	Low Temp. Suction
DC	Defrost Condensate	LTRS	Low Temp. Recirculated Suction
EQ*	Equalizer	LIC	Liquid Injection Cooling
ES	Economizer Suction	LSS	Low Stage Suction
HGD	Hot Gas Defrost	PO*	Pump Out
HPL	High Pressure Liquid	PU*	Purge
HSD	High Stage Discharge	RV	Relief Vent
HSS	High Stage Suction	TSR	Thermosyphon Return
HTS*	High Temp. Suction	TSS	Thermosyphon Supply
HTRL	High Temp. Recirculated Liquid	*Not currently covered in the IIAR standard	
HTRS	High Temp. Recirculated Suction		

Orange vs. Yellow

Orange was adopted by the International Institute of Ammonia Refrigeration (IIAR) for ammonia markers, instead of yellow, because it meets the ANSI A13.1 (2007) revised standard for toxic and corrosive fluids. Yellow will continue to be available for established facilities needing replacements.



IIAR Marker Styles

Brady offers a variety of ammonia pipe markers that comply with the IIAR's established guidelines, including self-adhesive markers, snap-around marker styles and high performance pipe markers recommended for harsh environments.



IIAR B-689 High Performance Wrap-Around Marker Styles and Sizes

Style Code	Outside Diameter	Letter Height	Marker Size
Style: I	1.5 in. to 2.378 in.	0.75 in.	9 in. x 8 in. (uncoiled)
Style: II	2.5 in. to 7.875 in.	1.25 in.	26 in. x 12 in. (uncoiled)



IIAR B-681 / B-883 HPHV Marker Styles and Sizes

Style Code	Outside Diameter	Letter Height	Marker Size
Style: HPHV	8 in. or larger	3.5 in.	4 in. x 24 in. (includes 2 mounting clips)



B-946 Self-Sticking Marker Styles and Sizes

Style Code	Style Example	Outside Diameter	Letter Height	Marker Size
Style: 1HV	HEATING RETURN	8 in. or greater	3.5 in.	One 4 in. x 24 in. marker per card
Style: 1	HEATING RETURN	2.5 in. to 7.875 in.	2 in.	One 2.25 in. x 14 in. marker per card
Style: 4	FIRE AUTO SPRINKLERS	0.75 in. to 2.378 in.	0.75 in.	Four 1.125 in. x 7 in. markers per card*

* Use in conjunction with 1 in. arrow tape to meet the 8 in. marking required by ANSI standards.

Orange IIAR Pipe Markers

					B-689 Wrap-Around		B-681/B-883	B-946 Self-Sticking Vinyl		
	IIAR Abbr.	Physical	Legend	Pressure	Style I	Style II	Style HPHV	Style 1	Style 1HV	Style 4
Orange Markers	(blank)	LIQ	Ammonia	High	145793	145830	145953	145866	145894	145924
	(blank)	LIQ	Ammonia	Low	145789	145823	145946	145859	145888	145917
	(blank)	LIQVAP	Ammonia	High	145787	145820	145943	145856	145885	145914
	(blank)	LIQVAP	Ammonia	Low	145783	145817	145940	145852	145882	145911
	(blank)	VAP	Ammonia	High	145778	145814	145937	145850	145876	145907
	(blank)	VAP	Ammonia	Low	145771	145809	145932	145845	145873	145903
	BD	VAP	Ammonia	Low	145772	145799	145926	145839	145868	145897
	CD	LIQ	Ammonia	High	145795	145825	145948	145861	145890	145919
	DC	LIQ	Ammonia	High	145796	145826	145949	145862	145891	145920
	EQ	LIQVAP	Ammonia	Low	145784	145818	145941	145853	145883	145912
	ES	VAP	Ammonia	Low	145773	145800	145927	145840	145869	145898
	HGD	VAP	Ammonia	High	145780	145811	145934	145847	145878	145904
	HG	VAP	Ammonia	High	145779	145810	145933	145846	145877	145908
	HPL	LIQ	Ammonia	High	145797	145827	145950	145863	145896	145921
	HSD	VAP	Ammonia	High	145781	145812	145935	145848	145879	145905
	HSS	VAP	Ammonia	Low	145774	145802	145928	145841	145870	145899
	HTRL	LIQ	Ammonia	Low	145791	145821	145944	145857	145886	145915
	HTRS	LIQVAP	Ammonia	Low	145785	145815	145938	145851	145880	145909
	HTS	VAP	Ammonia	Low	145775	145805	145929	145842	145871	145900
	LIC	LIQ	Ammonia	High	145798	145828	145951	145864	145892	145922
	LSS	VAP	Ammonia	Low	145776	145807	145930	145843	145872	145901
	LTRL	LIQ	Ammonia	Low	145788	145822	145945	145858	145887	145916
	LTRS	LIQVAP	Ammonia	Low	145782	145816	145939	145854	145881	145910
	LTS	VAP	Ammonia	Low	145770	145808	145931	145844	145874	145902
	PO	LIQ	Ammonia	Low	145790	145824	145947	145860	145889	145918
	PU	LIQ	Ammonia	High	145794	145831	145954	145867	145895	145925
	PV	VAP	Ammonia	High	145777	145813	145936	145849	145875	145906
	TSR	LIQVAP	Ammonia	High	145786	145819	145942	145855	145884	145913
	TSS	LIQ	Ammonia	High	145792	145829	145952	145865	145893	145923

Yellow IIAR Pipe Markers

For established facilities needing replacements.

					B-689 Wrap-Around		B-681/B-883	B-946 Self-Sticking Vinyl		
	IIAR Abbr.	Physical	Legend	Pressure	Style I	Style II	Style HPHV	Style 1	Style 1HV	Style 4
Yellow Markers	(blank)	LIQ	Ammonia	High	58000	58006	59939	90462	90460	90461
	(blank)	LIQ	Ammonia	Low	58003	58009	59942	90465	90463	90464
	(blank)	LIQVAP	Ammonia	High	58002	58008	59941	90474	90472	90473
	(blank)	LIQVAP	Ammonia	Low	58005	58011	59944	90477	90475	90476
	(blank)	VAP	Ammonia	High	58001	58007	59940	90468	90466	90467
	(blank)	VAP	Ammonia	Low	58004	58010	59943	90471	90469	90470
	BD	VAP	Ammonia	Low	57960	57980	59919	90440	90400	90420
	CD	LIQ	Ammonia	High	57961	57981	59920	90441	90401	90421
	DC	LIQ	Ammonia	High	57962	57982	59921	90442	90402	90422
	EQ	LIQVAP	Ammonia	Low	58014	58017	59982	90486	90484	90485
	ES	VAP	Ammonia	Low	57963	57983	59922	90443	90403	90423
	HGD	VAP	Ammonia	High	57965	57985	59924	90445	90405	90425
	HG	VAP	Ammonia	High	57964	57984	59923	90444	90404	90424
	HPL	LIQ	Ammonia	High	57966	57986	59925	90446	90406	90426
	HSD	VAP	Ammonia	High	57967	57987	59926	90447	90407	90427
	HSS	VAP	Ammonia	Low	57968	57988	59927	90448	90408	90428
	HTRL	LIQ	Ammonia	Low	57969	57989	59928	90449	90409	90429
	HTRS	LIQVAP	Ammonia	Low	57970	57990	59929	90450	90410	90430
	HTS	VAP	Ammonia	Low	57971	57991	59930	90451	90411	90431
	LIC	LIQ	Ammonia	High	57972	57992	59931	90452	90412	90432
	LSS	VAP	Ammonia	Low	57973	57993	59932	90453	90413	90433
	LTRL	LIQ	Ammonia	Low	57974	57994	59933	90454	90414	90434
	LTRS	LIQVAP	Ammonia	Low	57975	57995	59934	90455	90415	90435
	LTS	VAP	Ammonia	Low	57976	57996	59935	90456	90416	90436
	PO	LIQ	Ammonia	Low	58012	58015	59980	90480	90478	90479
	PU	LIQ	Ammonia	High	58013	58016	59981	90483	90481	90482
	PV	VAP	Ammonia	High	57977	57997	59936	90457	90417	90437
	TSR	LIQVAP	Ammonia	High	57978	57998	59937	90458	90418	90438
	TSS	LIQ	Ammonia	High	57979	57999	59938	90459	90419	90439

IIAR Component Markers

Legend	Pressure	Yellow Style 1HV	Orange Style 1HV
ACCUMULATOR	Low	90340	145832
COMPRESSOR	High	90341	145836
EVAPORATOR	Low	90350	145833
HEAT EXCHANGER	Low	90343	145834
OIL SEPARATOR	High	90349	145837
RECEIVER	High	90345	145838
RECIRCULATOR	Low	90346	145835

ACCUMULATOR

COMPRESSOR

EVAPORATOR

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