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## Body Markings: How to Identify Lead-free† Milwaukee & Hammond Valve Products

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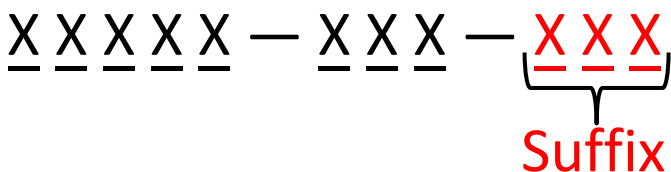
Currently, there are no standardized regulatory requirements dictating how manufactures are to mark or identify “Lead-free†” products. Milwaukee & Hammond Valve has taken several approaches to identify our lead-free† product offerings. The most notable identification is the “white” painted hand wheel on multi-turn products and “white” plastic grip on ball valves. The multi-turn valves have a metal identification plate displaying the Ultra-Pure® trademark name along with the appropriate Ultra-Pure model number. The ball valve grips display the Ultra-Pure trademark name, which is screen printed in blue.

The bronze swing check valves (i.e. UP509 / UP904) have a “white” identification label applied to the top of the cap, which carries the Ultra-Pure trademark name and Ultra-Pure model numbers printed in “blue”. The Ultra-Pure brass swing check and Ultra-Pure bronze lift check valves do not have an identification label; these products are handled a bit differently through body markings only, which will be covered in the next segment.

Early in the development process of the Ultra-Pure product line, Milwaukee Valve identified a need to cross-verify material content of lead-free† components. Therefore, the decision was made to either stamp or cast a suffix codes in lead-free† component parts. The stamped or casted codes relate back to the last three characters of a component part number (see illustration 1). The three character suffix translates to our internal master material specification list, which calls out what base material is used to make the component. The process of adding the code is exclusive to the lead-free product line only, you will not find these codes on our standard brass and bronze products. The proceeding pages provide examples of component parts where the three digit suffix codes are used along with translation of the code to the actual material specification.



Moving forward Milwaukee and Hammond Valve will be adding an additional method to help industry professionals within the supply chain to identify our lead-free† plumbing products. In addition to the three character material code, the bronze products produced in our Prairie du Sac, Wisconsin facility will include casting “LF” into the body. The brass products will have the letters “LF” etched into the body. As we work through our current inventories of lead-free† products you may begin to see this new addition lead-free† identification marking. At this point in time, the bronze lift check valves, which are a vendor sourced product, will not carry the “LF” designation.

### Illustration 1

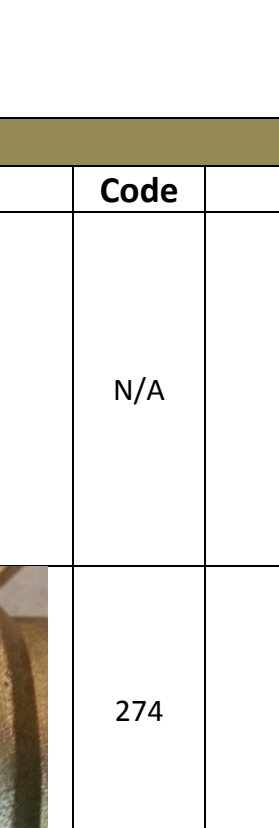
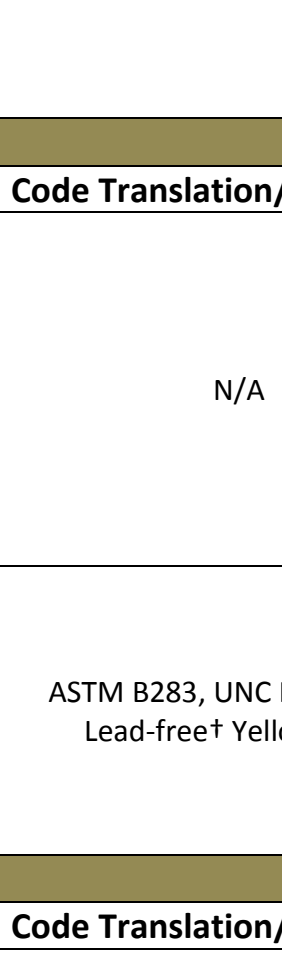


†Lead free refers to not more than 0.25% weighted average lead content in relation to wetted surface of pipe, pipe fittings, fittings, and fixtures in systems delivering water for human consumption.

**Model No. UPBA-475B / UP8901**


Marking	Code	Code Translation/Description
	N/A	N/A
	274	ASTM B283, UNC No. C27450 Lead-free† Yellow Brass

**Model No. UPBA-100 / UP8501**

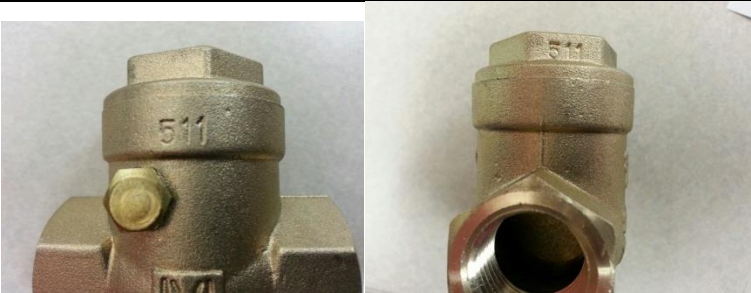
Marking	Code	Code Translation/Description
	N/A	N/A
	121, C21, C021, or C121	ASTM B584, UNC No. C89833 Lead-free† Copper Bismuth Alloy (Sand Casting)

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**Model No. UP509 / UP904**

Marking	Code	Code Translation/Description
	121, C21, C021, or C121	ASTM B584, UNC No. C89833 Lead-free† Copper Bismuth Alloy (Sand Casting)
	214	ASTM B584, UNC No. C89833 Lead-free† Copper Bismuth Alloy (Bar)

**Model No. UP967/UP968**

Marking	Code	Code Translation/Description
	274	ASTM B283, UNC. No. C27450
	511	ASTM B283, UNC No. C69300 Lead-free† ECO Brass
	471	ASTM B283, UNC No. C46400


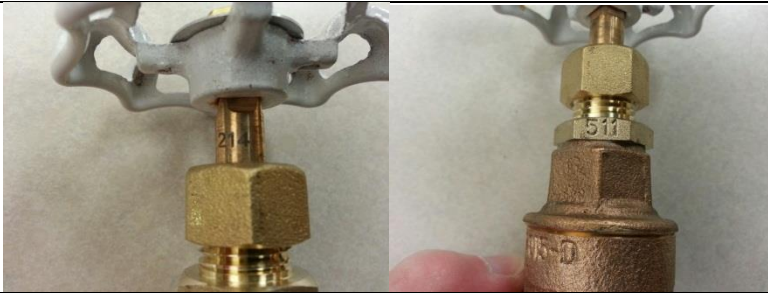
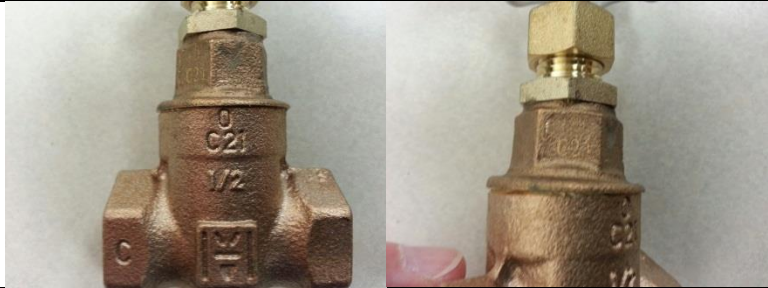

**Model No. UP969**

Marking	Code	Code Translation/Description
	274	ASTM B283, UNC. No. C27450


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**Model No. UP105 / UP645**

Marking	Code	Code Translation/Description
	N/A	N/A
	214	ASTM B584, UNC No. C89833 Lead-free† Copper Bismuth Alloy (Bar)
	511	ASTM B283, UNC No. C69300 Lead-free† ECO Brass
	121, C21, C021, or C121	ASTM B584, UNC No. C89833 Lead-free† Copper Bismuth Alloy (Sand Casting)

**Model No. UP548T / UP943\***



Marking	Code	Code Translation/Description
	1, 121, C21, C021, or C121	ASTM B584, UNC No. C89833 Lead-free† Copper Bismuth Alloy (Sand Casting)  *The only instance where a three character code is not used is on the lift checks, depending on space limitations. Some instances the last of character of the suffix, is casted in the body and/or the disc holder.

**Model No. UP667/UP668**



Marking	Code	Code Translation/Description
	274	ASTM B283, UNC. No. C27450
	511	ASTM B283, UNC No. C69300 Lead-free† ECO Brass
	471	ASTM B283, UNC No. C46400

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**Model No. UPBA-150 / UP8511**

Marking	Code	Code Translation/Description
	N/A	N/A
	121, C21, C021, or C121	ASTM B584, UNC No.C89833 Lead-free† Copper Bismuth Alloy (Sand Casting)

**Model No. UPBA-485 / UP8911**

Marking	Code	Code Translation/Description
	N/A	N/A
	274	ASTM B283, UNC No. C27450 Lead-free† Yellow Brass

**Model No. Silent Check Valves (1400/1800 Series)**

Marking	Code	Code Translation/Description
	N/A	Note: Only valves with stainless trim meet Lead-free† requirements.

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