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FOREWORD FOR U.S. ADOPTION

This American National Standard is an adoption of IEC 60974-8 edition 1, *Arc welding equipment—Part 8: Gas consoles for welding and plasma cutting systems*, and was developed and approved in accordance with procedures set forth by the American National Standards Institute. It is the intention that this American National Standard be a standalone document, replacing the use of IEC 60974-8 in the U.S. As such, any reference in this standard to an IEC 60974 part is understood to mean a reference to the equivalent ANSI/NEMA/IEC 60974 part, where it exists.

ANSI/NEMA/IEC 60974-8-2009 (R2020) is a reaffirmation of ANSI/NEMA/IEC 60974-8-2009. No substantive changes were made to the document during this reaffirmation.

This standard contains all the original text as-is from IEC 60974-8, edition 1, in addition to a number of U.S. Differences to the IEC standard that were identified by Accredited Standards Committee W1, *Requirements for Apparatus Designed for Use in Arc Welding, Plasma Arc Cutting, and Allied Processes*. Each U.S. Difference is found both in a compilation of U.S. Differences following this foreword, and inserted in the appropriate place(s) in the standard relating to the difference. Each insertion is in red text and is marked on its left by three lines (two thin, one thick). Each U.S. Difference is identified with the following format:

[Clause/Subclause Number]DV.[Number of Difference for the Given Clause/Subclause]

Following this format, the example 17.1DV.3 signifies that it is the third U.S. Difference to subclause 17.1.

Suggestions for the improvement of this standard are welcome and should be submitted to the Secretariat of Accredited Standards Committee W1 as follows:

Khaled Masri, ASC W1 Secretary  
c/o National Electrical Manufacturers Association  
1300 North 17th Street, Suite 900  
Rosslyn, VA 22209  
Fax 703-841-3226  
Email khaled.masri@nema.org

This standard was processed and approved by the Accredited Standards Committee W1. Committee approval does not necessarily imply that all Committee members voted for its approval. At the time this standard was approved, Accredited Standards Committee W1 consisted of the following members:

Greg Corban, Chair  
Mike Madsen, Vice-Chair  
Khaled Masri, Secretary

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FOREWORD

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International Standard IEC 60974-8 has been prepared by IEC technical committee 26: Electric welding.

This standard is to be used in conjunction with IEC 60974-1.

The text of this standard is based on the following documents:

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Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.
The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

**Foreword**

- Modify the foreword by adding the following:
  The numbering system in this standard uses a space instead of a comma to indicate thousands and uses a comma instead of a period to indicate a decimal point. For example, 1,000 means 1,000 and 1,01 means 1.01.
ARC WELDING EQUIPMENT –

Part 8: Gas consoles for welding and plasma cutting systems

GlobalDV.1 Throughout this document, replace the phrase "this part of IEC 60974" to "this part of ANSI/NEMA/IEC 60974"

1 Scope

This part of IEC 60974 specifies safety and performance requirements for gas consoles intended to be used with combustible gases or oxygen. These gas consoles are designed to supply gases for use in arc welding, plasma cutting, gouging and allied processes in non-explosive atmospheres.

The gas console can be external or internal to the power source enclosure. In the latter case, this standard also applies to the power source.