



ANSI/IEC 60974-8-2008

**American National Standard
for Arc Welding Equipment**

**Part 8: Gas Consoles for
Welding and Plasma
Cutting Systems**



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*Arc Welding Equipment—
Part 8: Gas Consoles for Welding and Plasma Cutting Systems*

Published by

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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/IEC 60974 part, where it exists.

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:

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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:

John Freudenberg, Chairman
Wayne Hoffman, Vice Chairman
Greg Winchester, Secretary

<i>Organization Represented</i>	<i>Name of Representative</i>
American Welding Society	Andrew Davis – principal Dick Holdren – alternate
CenterLine (Windsor) Limited	David Beneteau
CSA International	Andrew Krumins
ESAB Welding and Cutting	Charles Aimar
Hypertherm Inc.	Tony Zeller – principal Bill Lynn – alternate
Lincoln Electric Company	Frank Stupczy – principal Gary Mikitin – alternate
Miller Electric Manufacturing Company	David Werba – principal Terry Christianson-Plato – alternate Mike Madsen – alternate
Northeast Product Safety Society	John Freudenberg
Wayne Hoffman – Consultant / U.S. Technical Advisor, IEC TC 26	Wayne Hoffman

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ARC WELDING EQUIPMENT –

Part 8: Gas consoles for welding and plasma cutting systems

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:

FDIS	Report on voting
26/272/FDIS	26/279/RVD

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.

ForewordDV.1 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/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.