

# Conduit Purging Device and Method

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## DESCRIPTION

This invention is a welding conduit purging device. The device is comprised of a gas supply for supplying gas to an interior volume of a conduit assembly at a constant rate; and a vent for venting the gas from the interior volume at a rate that maintains the gas in the interior volume within a pressure range to hold a weld bead in a weld region in equilibrium during formation of a weld to join two conduit portions. The vent has an extended axial configuration and a tubular shape, and defines an opening including holes and/or slots.

## FEATURES AND BENEFITS

- Improves gas separation
- Removes reactive gasses from weld regions
- Solves issues with welding an open-ended conduit to a conduit having a closed end

## APPLICATIONS

- Welding for Aerospace

## FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-14960-1, please contact:

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