

MSS SP-79-2004

Socket Welding Reducer Inserts

**COMPLIMENT
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Standard Practice
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FOREWORD

This document establishes a Standard Practice for Socket Welding Reducer Inserts produced for a number of years by various manufacturers to varying dimensions although basically similar in principle. Users should note reducers furnished from existing stocks may have slightly different dimensions than shown in Table 3.

SOCKET WELDING REDUCER INSERTS

0. **PURPOSE**

To provide a Standard Practice establishing requirements for insert type fittings, which effectively, after welded installation, creates a socket welded reduced end fitting, such as a Tee, 90 degree Ell, Cross, 45 degree Ell, Coupling, etc.

1. **SCOPE**

1.1 **General** This Standard Practice covers ratings, dimensions, tolerances, finish, marking and material requirements for socket welding reducer inserts for use with ASME B16.11, Class 3000 and 6000 socket welding fittings. Dimensions for these reducer inserts are shown in Table 3.

1.1.1 **Fitting Sizes/Pipe Correlation** Fittings covered by this Standard Practice are shown in Table 1, by class, size range and correlation to the schedule number or wall designation of pipe for calculation of ratings.

1.1.2 **Partial Compliance Fittings** Fittings with special dimensions and fittings made from non-standard materials may be designed and manufactured by agreement between the manufacturer and the purchaser, provided they are marked in accordance with the requirements for partial compliance fittings of 5.1.1 (e).

1.2 **Service Conditions** Criteria for selection of fitting type and materials suitable for particular fluid type and materials suitable for particular fluid service are not within the scope of this Standard Practice.

1.3 **Welding** Except for the CAUTIONARY NOTE (Section 12) and the GAP RECOMMENDATIONS (Figure 1 and Figure 2), installation welding requirements are not within the scope of this Standard Practice. Installation welding shall be done in accordance with the applicable piping system into which the fittings are to be installed.

2. **REFERENCES**

2.1 **Referenced Standards** Standards and specifications adopted by this Standard Practice are shown in Annex A, which is part of this Standard Practice. It is not considered practical to identify the specific edition of each standard and specification in the individual references. Instead, the specific edition reference is identified in Annex A. A fitting made in conformance and conforming to this Standard Practice in all other respects will be considered to be in conformance to the Standard Practice, even though the edition reference may be changed in a subsequent addendum to or revision of the Standard Practice.

2.2 **Codes of Regulations** A fitting used under the jurisdiction of the ASME Boiler and Pressure Vessel Code, the ASME Code for Pressure Piping, or a governmental regulation is subject to any limitation of that code or regulation. This includes any maximum temperature limitation, or rule governing the use of material at low temperature, or provisions for operation at a pressure exceeding the pressure ratings in this Standard Practice.