



## Welding ring with collar. Metric dimensions (ID) PN 16, PED

### Introduction

This standard for a welding ring with collar is based on strength calculations carried out on a complete flange connection with loose flange, welding ring with collar, gasket and screw joint. The standard for a welding ring with collar is included as a part of the SSG standard for pipe classes.

The standard observes the values for the highest permitted pressure ( $P_c$ ) and temperature ( $T_c$ ) for the pressure classes PN 10-40 in accordance with the European harmonised flange standard EN 1092-1:2001, table 17, material group 14E0, see example section 2.3.1.

The standard satisfies the appropriate sections of the most important safety requirements in the European pressure vessel directive PED, 97/23/EC, implemented in Sweden through Arbetsmiljöverkets (*The Work Environment Authority*) requirement AFS 1999:4. The components in the standard are designed in accordance with the harmonised standard for metallic industrial piping, EN 13480.

The Notified Body 0409 Inspecta Sweden AB has verified the strength calculations in relation to PED requirements and EN 13480, and issued a statement of conformity, no. 04-130896-00.

The material in the welding ring with collar observes EN 1092-1:2001, table 5a and the European harmonised material standard.

#### Note:

Calculations of the welding ring with collar have been based on the material 1.4307 as per the EN standard.

If material with lower strength values is selected the welding ring with collar CANNOT be used as per the standard.

The welding ring with collar in this standard is not included as its own type in the present European flange standard EN 1092-1:2001.

Dimensional information for welding ring with collar see section 3.

Welding ring with collar is designed for a loose flange as per SSG 7372E.