DIN 509:2022-12 (E)

Technical product documentation - Relief grooves - Types, dimensions and tolerances

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Dimensions 5
4.1 General 5
4.2 Type E relief grooves 5
4.3 Type F relief grooves 6
4.4 Type G relief grooves 6
4.5 Type H relief grooves 7
4.6 Upper and lower tolerances for relief grooves 7

5 Design of the surface 8

6 Designation 8

7 Machining allowances 8

8 Presentation in drawings 9

Annex A (informative) Dimensioning in accordance with geometrical product specifications (ISO GPS) 11

A.1 General 11
A.2 Dimensioning type F according to valid ISO GPS rules 11

Bibliography 13

Figures Figure 1 -- Relief groove for cylindrical surfaces intended for subsequent machining with machining allowance 6

Figure 2 -- Relief groove for cylindrical and planar surfaces intended for subsequent machining with machining allowance 6

Figure 3 -- Relief groove with smaller included angle with machining allowance 7

Figure 4 -- Relief groove with greater included angle with machining allowance 7

Figure 5 -- Dimensions for machining allowances, type F relief grooves 9

Figure 6 -- Simplified presentation of a type F relief groove 10

Figure A.1 -- Dimensioning using ISO GPS rules for a type F relief groove with a linear profile and position specifiers 12

Figure A.2 -- Dimensioning using ISO GPS rules for a type F relief groove with a surface profile 12

Tables Table 1 -- Dimensions for relief grooves 8

Table 2 -- Allocation of dimensions of relief grooves and machining allowances 9