INTERNATIONAL **STANDARD**

ISO 9448-6

> Second edition 2013-12-15

Tools for pressing — Guide bushes —

Part 6:

Form E, gliding bushes, flanged, type 1

Outillage de presse — Bagues de guidage —

By pagues pagues of the full o Partie 6: Forme E, bagues a collerette à brider pour guidage lisse, type







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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

This second edition results from the reinstatement of ISO 9448-6:1991, which was withdrawn in 2006 and with which it is technically identical.

ISO 9448 consists of the following parts, under the general title *Tools for pressing — Guide bushes*:

- Part 1: Forms
- Part 2: Form A, gliding bushes, plain, type 1
- Part 3: Form B, ball cage bushes, plain, type 1
- Part 4: Form C, gliding bushes, headed, type 1
- Part 5: Form D, ball cage bushes, headed, type 1
- Part 6: Form E, gliding bushes, flanged, type 1
- Part 7: Form F, ball cage bushes, flanged, type 1
- Part 8: Form G, gliding bushes, stepped, type 1
- Part 9: Form B, ball cage bushes, plain, type 2
- Part 10: Form E, gliding bushes, flanged, type 2
- Part 11: Form F, ball cage bushes, flanged, type 2

Tools for pressing — Guide bushes —

Part 6:

Form E, gliding bushes, flanged, type 1

1 Scope

This part of ISO 9448 specifies the main dimensions and tolerances, in millimetres, of guide bushes of form E, flanged gliding bushes, type 1, intended for use in press tools and to be mounted in the clamp plate with transition fit and fixed to the plate by means of guide clamps.

It gives guidance on the materials, and specifies the hardness and the designation of bushes in accordance with this part of ISO 9448.

2 Dimensions

The dimensions of type 1 flanged gliding bushes (form E) shall conform to the indications of <u>Figure 1</u> and <u>Table 1</u>.

Details not stated, such as chamfers, radii, lubrication grooves, are left to the manufacturer's discretion.

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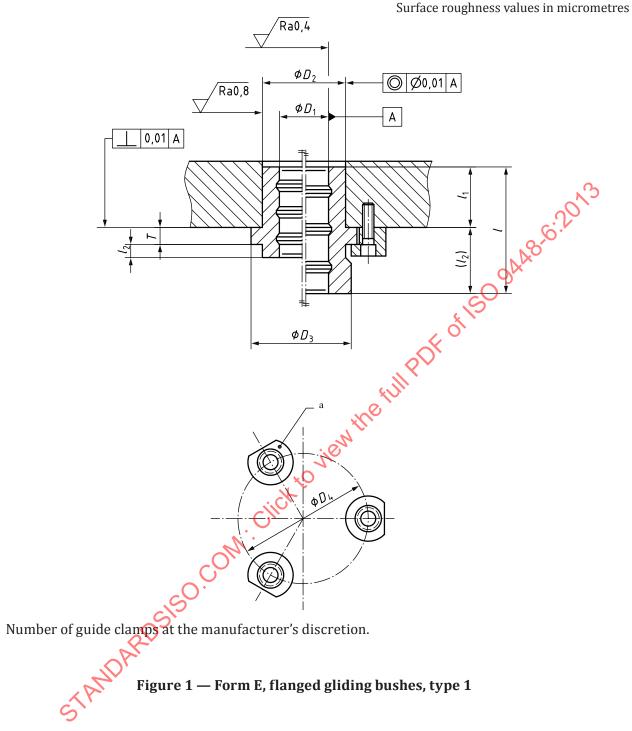


Figure 1 — Form E, flanged gliding bushes, type 1

Table 1

_	nom.	12		16		20		25		32		40		50		
D_1	tol.	G6								G5						
D ₂ k5 ^a		22		28		32		40		48		58		70		
D_3		30		36		40		48		56		66		80		
D_4		47		53		57		65		73		83		97		
T ± 0,1		6,3		6,3		6,3		6,3		6,3		6,3		6,3		
l_1 nom.	nom.	1	(12)	l	(12)	l	(l ₂)	l	(12)	1	(l ₂)	l	(l ₂)	l	(12)	
		30	10										0/2			
20		45	25									6				
		35	10	35	10	37	12	37	12			6				
25		50	25	57	32	45	20	61	36		OX					
	-2,0 -2,5					61	36	81	56	CC)					
		42	10	42	10	44	12	57	25 5	44	12					
32				64	32	68	36	82	50	77	45					
								Ó	À .	95	63					
	-3 -4			50	10	52	12	52	12	72	32	55	15			
40						76	36	80	40	96	56	85	45			
							11.					111	71			
						.62	12	62	12	65	15	82	32	68	18	
50					_v O	7		90	40	95	45	113	63	100	50	
					4									130	80	
63					~			75	12	78	15	78	15	99	36	
			1	••						108	45	113	50	134	71	
80			0/2									95	15	98	18	
)									130	50	143	63	
100	-3 -5	\mathcal{S}												118	18	
	-5													163	63	

To prevent incorrect assembly of the upper and lower plates of the die set in relation to each other, the following values of D_1 are recommended: 11, 15, 19, 24, 30, 38 and 48.

3 Material

The material is left to the manufacturer's discretion and the hardness shall be 60 $^{+2}_{0}$ HRC.

4 Designation

A guide bush in accordance with this part of ISO 9448 shall be designated by:

- a) "Guide bush";
- b) a reference to this part of ISO 9448, i.e ISO 9448-6;
- c) its form;

Intended to fit into a hole having a tolerance of H7.

ISO 9448-6:2013(E)

- its guiding diameter, D_1 , in millimetres;
- its length, l_1 , in millimetres.
- its length, *l*, in millimetres. f)

EXAMPLE A guide bush of form E, flanged gliding bush, type 1 of guiding diameter D_1 = 12 mm, of length l_1 = 20 mm and of length l = 30 mm is designated as follows:

Guide bush ISO 9448-6 E - 12 × 20 × 30

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