

Tools for pressing — Gas springs —

Part 2: Specification of accessories

ICS 25.120.10

National foreword

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 10 and a back cover.

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Tools for pressing — Gas springs —
Part 2:
Specification of accessories

Outils de presse — Ressorts à gaz —

Partie 2: Spécifications des accessoires



Reference number
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Foreword

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ISO 11901-2 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

This second edition cancels and replaces the first edition (ISO 11901-2:1995), which has been technically revised.

ISO 11901 consists of the following parts, under the general title *Tools for pressing — Gas springs*:

- *Part 1: General specifications*
- *Part 2: Specification of accessories*

Introduction

The attention of the user of ISO 11901 is drawn to the fact that gas springs will have to conform to the user's national regulations.

Tools for pressing — Gas springs —

Part 2: Specification of accessories

1 Scope

This part of ISO 11901 specifies the dimensions, in millimetres, of mounting base plates, of two-part mounting clamps, of flange mounts and of front end supports intended for use in press tools together with gas springs in accordance with ISO 11901-1.

It also gives information concerning materials and specifies the designation of the mounting accessories in accordance with this part of ISO 11901.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 630, *Structural steels — Plates, wide flats, bars, sections and profiles*

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 11901-1, *Tools for pressing — Gas springs — Part 1: General specifications*

3 Dimensions

3.1 Type A1 — Mounting base plates with two holes to clamp the gas spring

See Figure 1 and Table 1.

General tolerance: ISO 2768-m

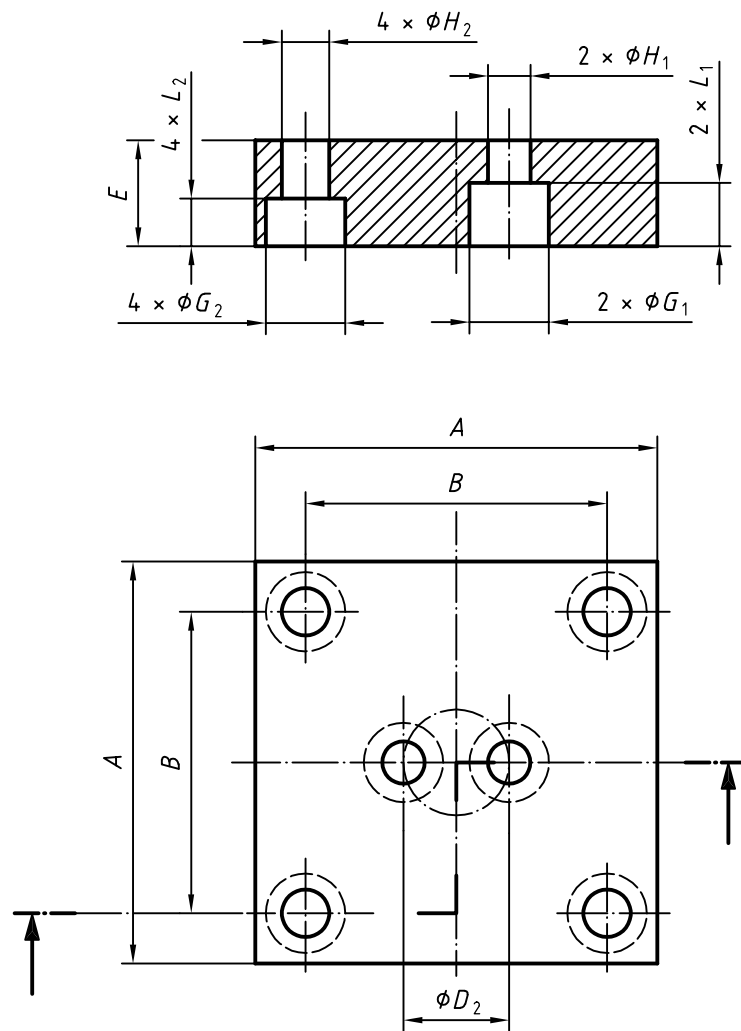


Figure 1 — Mounting base plates — Type A1

Table 1 — Dimensions of mounting base plates — Type A1

Mount for gas spring type	A	B	D_2	E $\begin{matrix} 0 \\ -0,1 \end{matrix}$	G_1	G_2	H_1	H_2	L_1	L_2
5 000	70	50	20	20	15	15	9	9	14	12
7 500	75	56,5	20	20	15	15	9	9	14	12

3.2 Type A2 — Mounting base plates with four holes to clamp the gas spring

See Figure 2 and Table 2.

General tolerance: ISO 2768-m

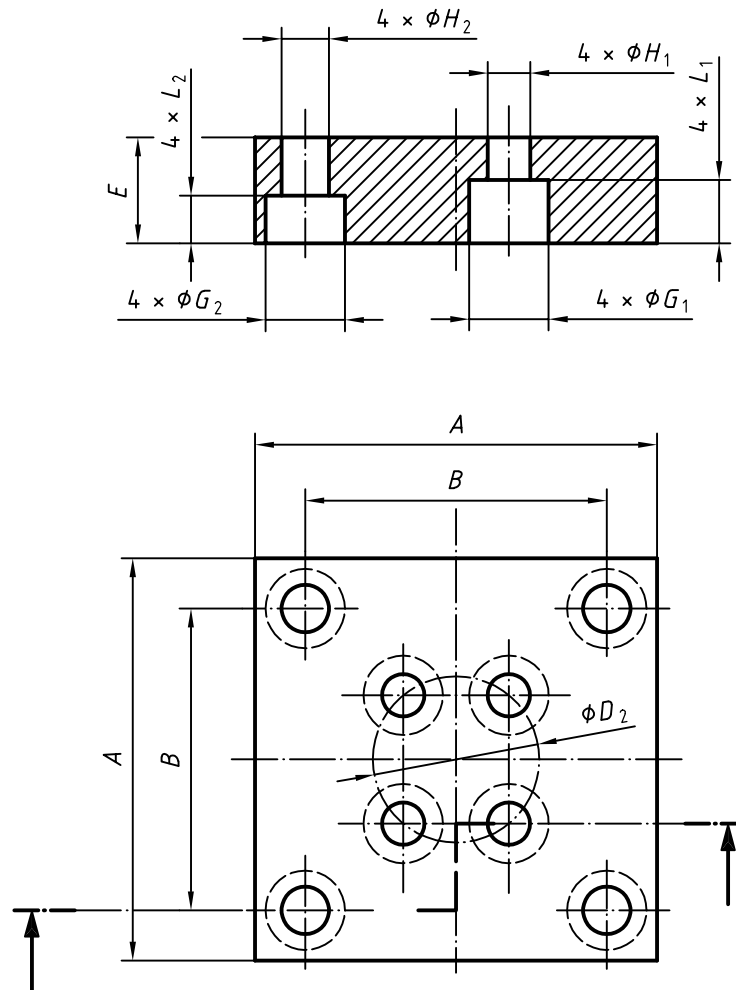


Figure 2 — Mounting base plates — Type A2

Table 2 — Dimensions of mounting base plates — Type A2

Mount for gas spring type	A	B	D ₂	E 0 -0,1	G ₁	G ₂	H ₁	H ₂	L ₁	L ₂
15 000	100	73,5	40	20	15	18	9	11	14	12
30 000	120	92	60	20	15	20	9	13,5	14	13
50 000	140	109,5	80	20	18	20	11	13,5	15	13
75 000	190	138	100	25	18	26	11	17,5	15	17
100 000	210	170	120	25	20	26	13,5	17,5	13	17

3.3 Type B — Two part mounting clamps

See Figure 3 and Table 3.

General tolerance: ISO 2768-m

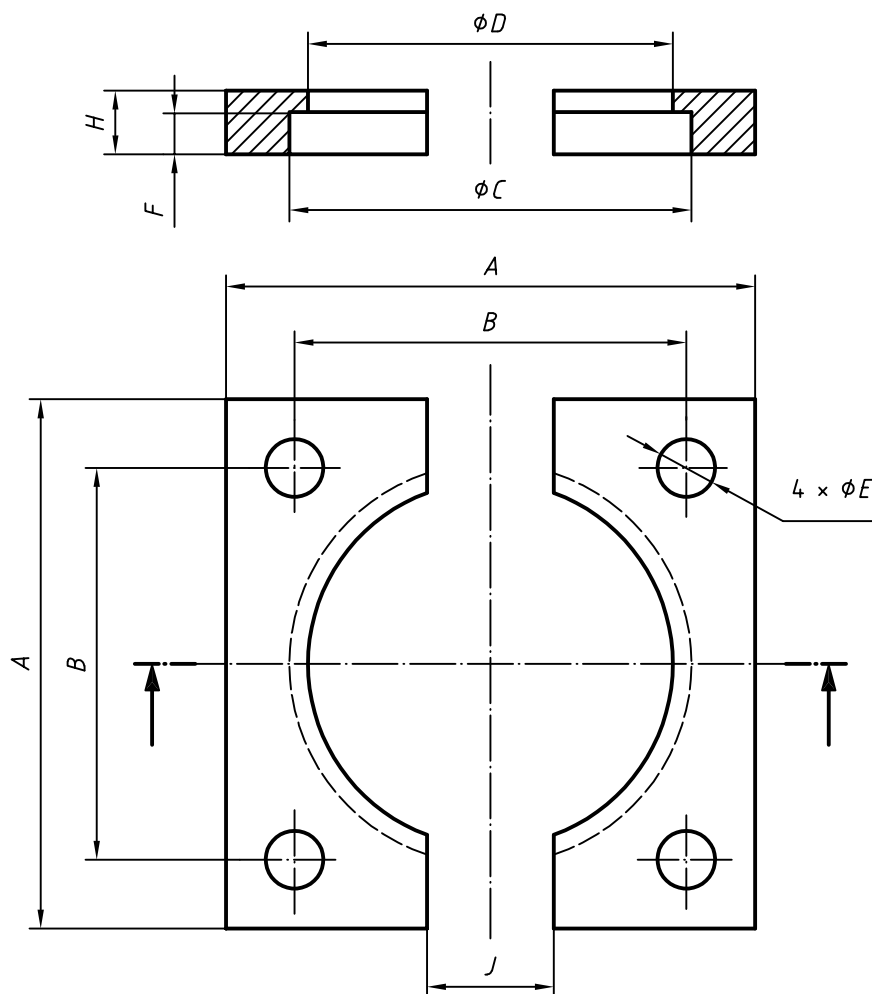


Figure 3 — Two part mounting clamps — Type B

Table 3 — Dimensions of two part mounting clamps — Type B

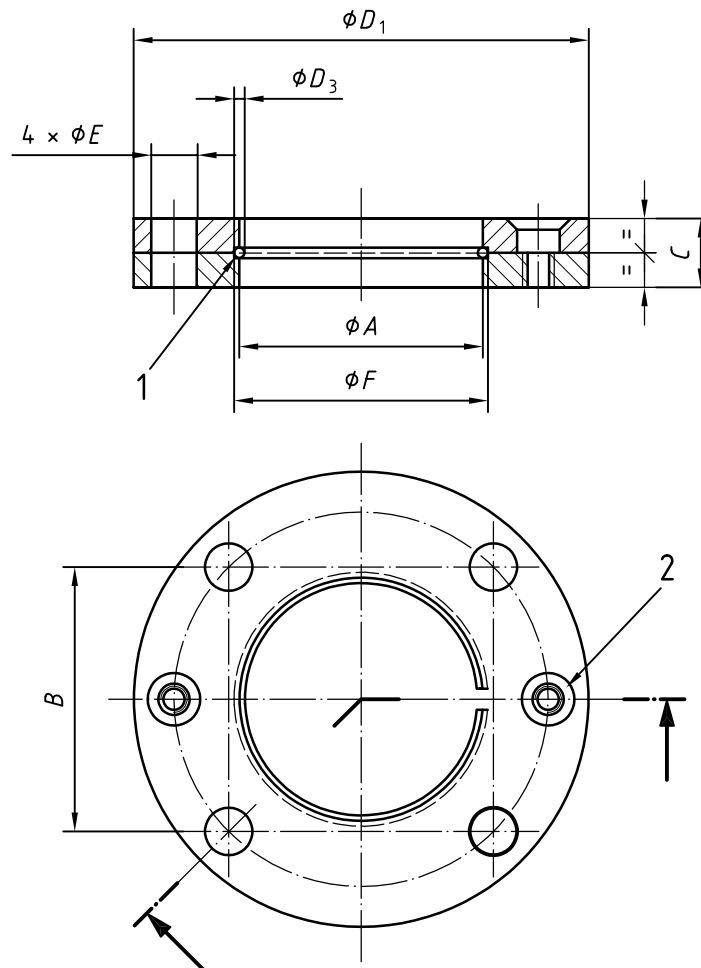
Mount for gas spring type	A	B	C	D	E	F 0 -0,1	H 0 -0,1	J
1 500	50	35	32,5	28,5	6,6	4	7	5
2 500	55	40	38,5	34,5	6,6	4	7	5
5 000	70	50	45,5	40,5	9	4	7	20
7 500	75	56,5	50,5	44,5	9	8	12	24
15 000	100	73,5	75,5	68,5	11	8	12	24
30 000	120	92	95,5	88,5	13,5	8	12	24
50 000	140	109,5	120,5	113,5	13,5	8	12	24
75 000	190	138	150,5	143,5	17,5	8	12	24
100 000	210	170	195,5	188	17,5	8	13	24

3.4 Type C — Flange mounts

3.4.1 Type C1 — Cylindrical flange mounts

See Figure 4 and Table 4.

General tolerance: ISO 2768-m



The two flange halves shall be held together with assembly screws.

Key

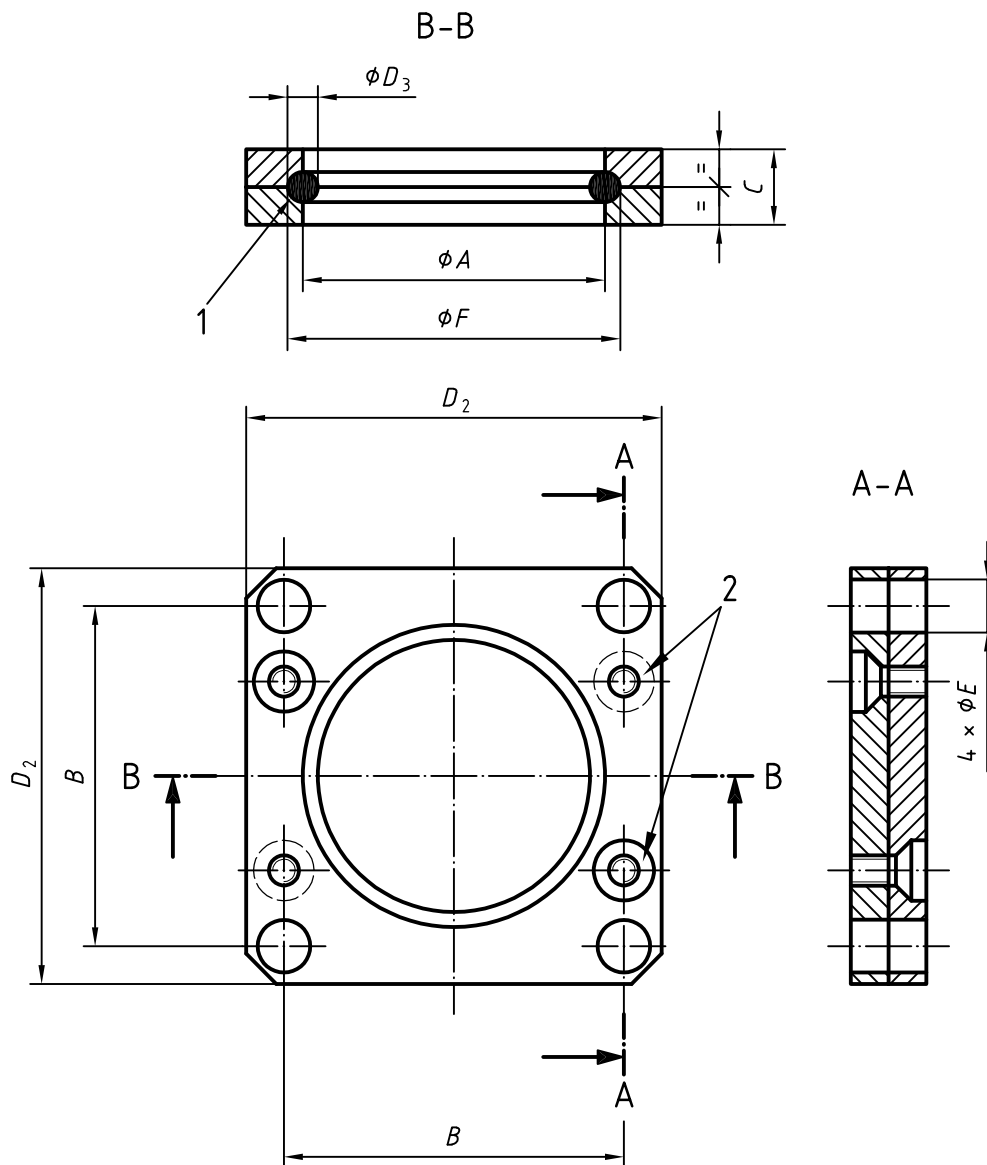
- 1 plain ring
- 2 assembly screws

Figure 4 — Cylindrical flange mounts — Type C1

3.4.2 Type C2 — Square flange mounts

See Figure 5 and Table 4.

General tolerance: ISO 2768-m



The two flange halves are to be held together with assembly screws.

Key

- 1 plain ring
- 2 assembly screws

Figure 5 — Square flange mounts — Type C2

3.4.3 Mounting of the flange mounts types C1 and C2 on gas springs

See Figure 6 and Table 4.

General tolerance: ISO 2768-m

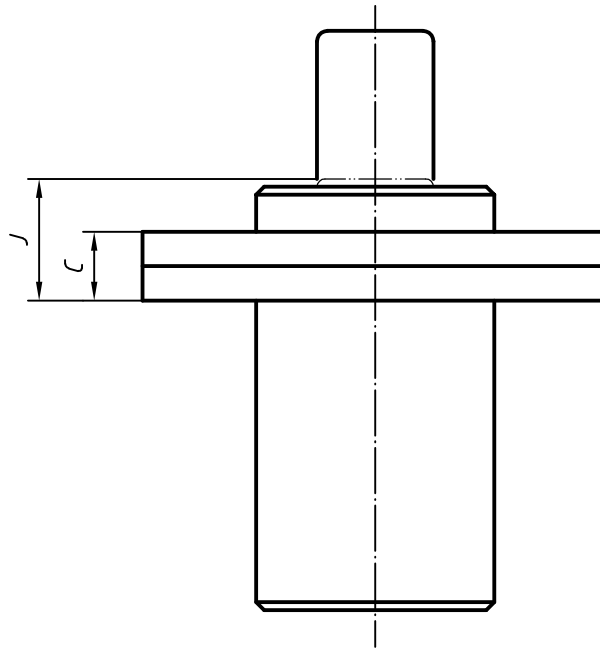


Figure 6 — Mounting of a flange mount

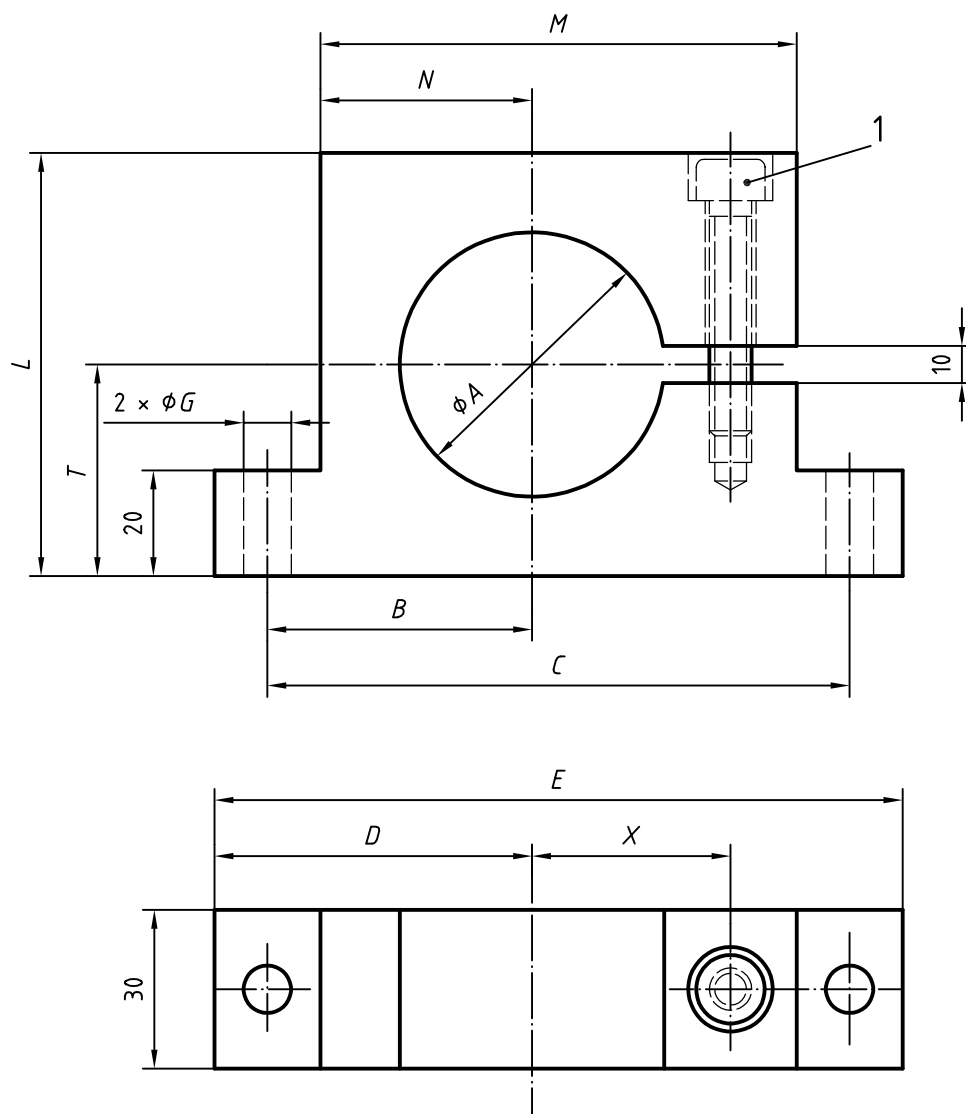
Table 4 — Dimensions of flange mounts — Types C1 and C2

Mount for gas spring	A $\pm 0,1$	B	C	D_1	D_2	D_3 h10	E	F $+0,1$ $-0,3$	J	Reference of mount type
1 500	32,5	35	9	60	-	2	6,6	34	17	C1
2 500	38,5	40	9	68	52	2	6,6	40	17	C1 and C2
5 000	45,5	50	13	86	64	2	9	47	23	C1 and C2
7 500	50,5	56,5	13	95	70	4	9	54	24	C1 and C2
15 000	75,5	73,5	16	122	90	5	11	80	29	C1 and C2
30 000	95,5	92	18	150	110	5	13,5	100	33	C1 and C2
50 000	120,5	109,5	21	175	130	5	13,5	125	36	C1 and C2
75 000	150,5	138	27	220	162	5	17,5	155	41	C1 and C2
100 000	195,5	170	27	290	210	5	17,5	200	47	C1 and C2

3.5 Type D — Front end supports

See Figure 7 and Table 5.

General tolerance: ISO 2768-m



Key

1 screw

Figure 7 — Front end supports — Type D

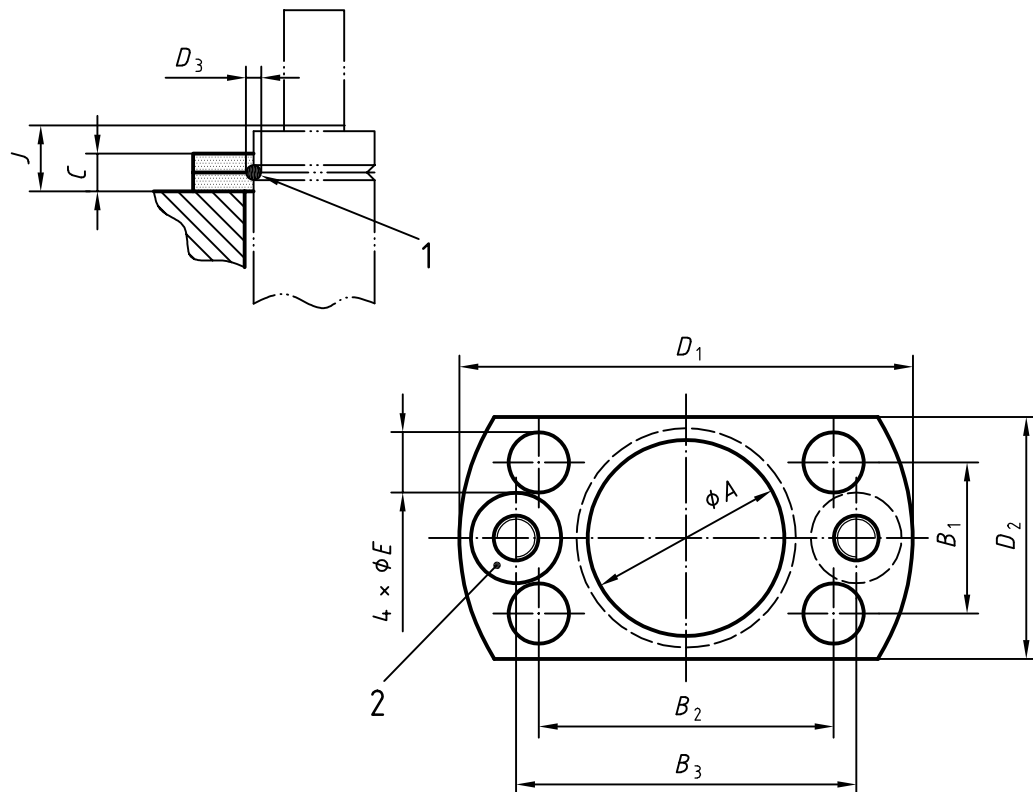
Table 5 — Dimensions of front end supports — Type D

Mount for gas spring	A $\pm 0,1$	B	C	D	E	G	L	M	N	Screw	T	X
7 500	50	50	110	60	130	9	80	90	40	M8	40	37,5
15 000	75	63,5	137	75	160	11	105	115	52,5	M10	52,5	50
30 000	95	80	170	92,5	195	13,5	125	145	67,5	M12	62,5	62,5
50 000	120	92,5	195	105	220	13,5	148	165	77,5	M12	74	73,7
75 000	150	110	230	125	260	13,5	200	200	95	M12	100	90

3.6 Type E — Rectangular flange mounts

See Figure 8 and Table 6.

General tolerance: ISO 2768-m



The two flange halves are to be held together with assembly screws.

Key

- 1 plain ring
- 2 assembly screws

Figure 8 — Rectangular flange mounts — Type E

Table 6 — Dimensions of rectangular flange mounts — Type E

Mount for gas spring	A	B ₁	B ₂	B ₃	C	D ₁	D ₂	D ₃	E	J
	± 0,1							h10		
900	19,5	12	30	32	9	44	25	2	6,6	21,5
2 000	25,5	18	34	38	9	50	30	2	6,6	21,5

4 Material

The material shall be steel E 355C, in accordance with ISO 630, or any material with equivalent mechanical characteristics.

5 Designation

A mounting accessory in accordance with this part of ISO 11901 shall be designated by:

- a) "Mounting base plate" or "Two-part mounting clamp" or "Flange mount" or "Front end support";
- b) reference to this part of ISO 11901, i.e. ISO 11901-2;
- c) type of mounting accessory;
- d) type of the gas spring.

EXAMPLE A mounting base plate type A1 for a gas spring of type of 5 000 is designated as follows:

Mounting base plate ISO 11901-2 - A1 - 5 000

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