INTERNATIONAL STANDARD

ISO 11901-2

Third edition
2018-10

Tools for pressing — Gas springs —

Part 2: Specification of accessories

Outillage de presse — Ressorts à gaz —

Partie 2: Spécifications des accessoires

Reference number
ISO 11901-2:2018(E)

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Published in Switzerland

Contents

Page

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 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

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

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This third edition cancels and replaces the second edition (ISO 11901-2:2004), which has been technically revised. The main changes compared to the previous edition are as follows:

— addition of accessories for gas spring according to ISO 11901-3 and ISO 11901-4;

— change of the designation of accessories.

A list of all parts in the ISO 11901 series can be found on the ISO website.

Tools for pressing — Gas springs —

Part 2: Specification of accessories

1 Scope

This document specifies the dimensions in millimetres, of mounting base plates, of two-part mounting clamps, of flange mounts and front end supports intended for use in press tool together with gas springs in accordance with ISO 11901-1, ISO 11901-3 and ISO 11901-4.

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

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 630-1, *Structural steels — Part 1: General technical delivery conditions for hot-rolled products*

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

3 Terms and definitions

No terms and definition are listed in this document

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Dimensions

4.1 General

All dimensions are indicated in millimetres.

In Figures 1 to 9, general tolerances shall be class m in accordance with ISO 2768-1.

4.2 Type A — Mounting base plates

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

Mounting base plates with two holes to clamp the gas spring of type A1 shall conform to the indications of Figure 1 and Table 1.

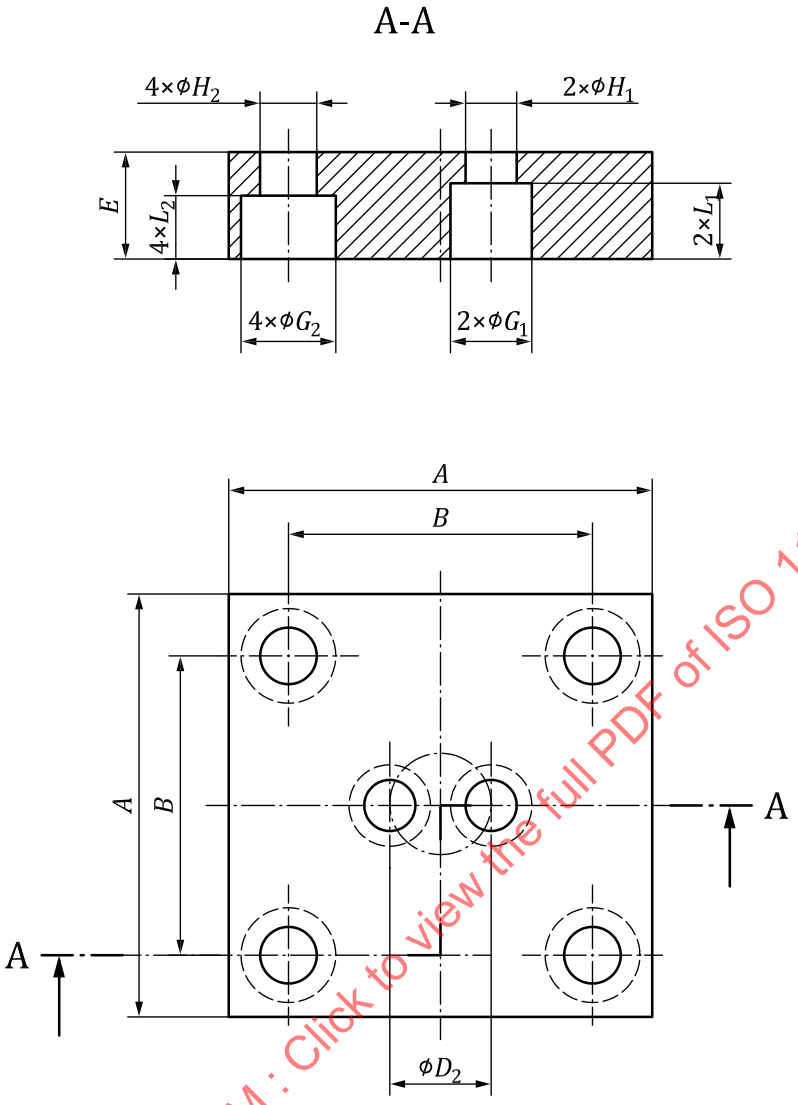


Figure 1 — Mounting base plates – Type A1

Table 1 — Dimensions of mounting base plates – Type A1

Mount for gas spring cylinder diameter ±0,3	*A*	*B*	D_2	*E* 0 −0,1	G_1	G_2	H_1	H_2	L_1	L_2
45	70	50	20	20	15	15	9	9	14	12
50	75	56,5	20	20	15	15	9	9	14	12
63	100	73,5	20	20	15	18	9	11	14	12

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

Mounting base plates with four holes to clamp the gas spring of type A2 shall conform to the indications of Figure 2 and Table 2.

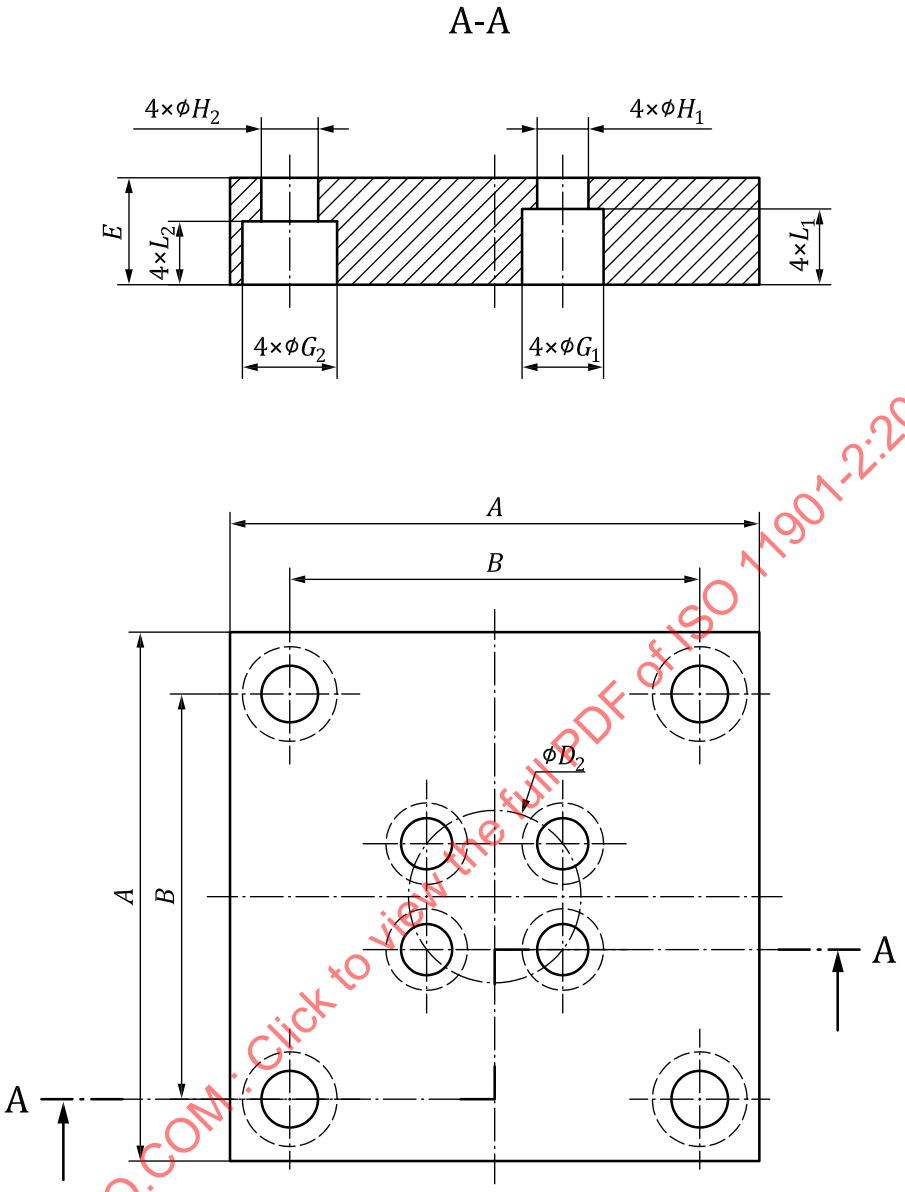


Figure 2 — Mounting base plates – Type A2

Table 2 — Dimensions of mounting base plates – Type A2

Mount for gas spring cylinder diameter ±0,3	*A*	*B*	D_2	*E* 0 −0,1	G_1	G_2	H_1	H_2	L_1	L_2
75	100	73,5	40	20	15	18	9	11	14	12
95	120	92	60	20	15	20	9	13,5	14	13
120	140	109,5	80	20	18	20	11	13,5	15	13
150	190	138	100	25	18	26	11	17,5	15	17
195	210	170	120	25	20	26	13,5	17,5	13	17

4.3 Type B — Two-part mounting clamps

Two-part mounting clamps of type B shall conform to the indications of Figure 3 and Table 3.

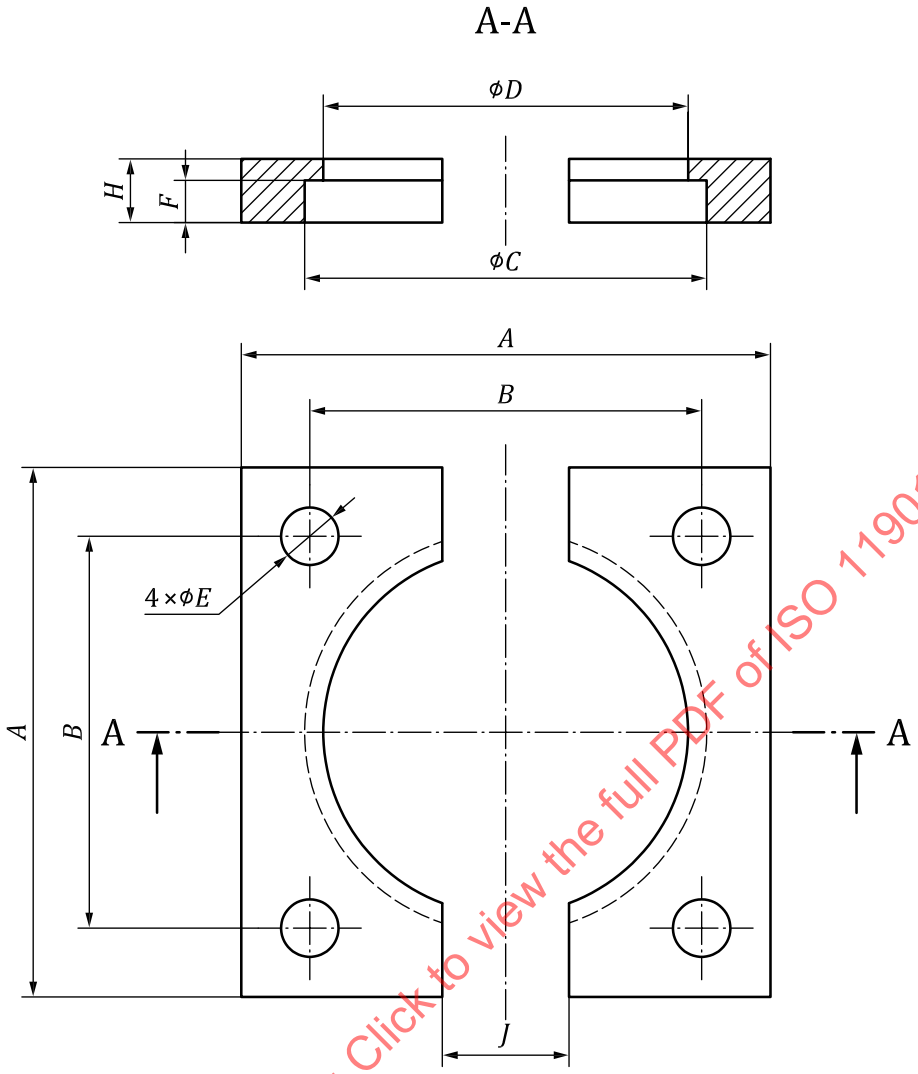


Figure 3 — Two-part mounting clamps – Type B

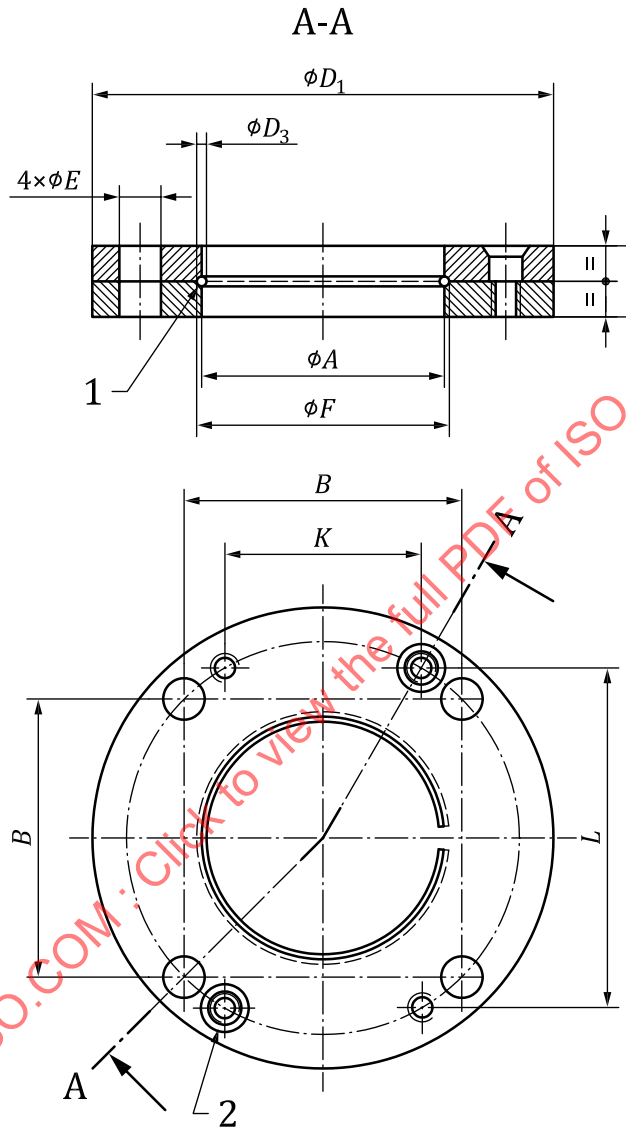
Table 3 — Dimensions of two-part mounting clamps – Type B

Mount for gas spring cylinder diameter ±0,3	*A*	*B*	*C*	*D*	*E*	*F* 0 −0,1	*H* 0 −0,1	*J*
32	50	35	32,5	28,5	6,6	4	7	12
38	55	40	38,5	34,5	6,6	4	7	12
45	70	50	45,5	40,5	9	4	7	20
50	75	56,5	50,5	44,5	9	8	12	24
63	100	73,5	64	57	11	8	12	24
75	100	73,5	75,5	68,5	11	8	12	24
95	120	92	95,5	88,5	13,5	8	12	24
120	140	109,5	120,5	113,5	13,5	8	12	24
150	190	138	150,5	143,5	17,5	8	12	24
195	210	170	195,5	188	17,5	8	13	24

4.4 Type C — Flange mounts

4.4.1 Type C1 — Cylindrical flange mounts

Cylindrical flange mounts of type C1 shall conform to the indications of Figure 4 and Table 4.



Key

1 plain ring

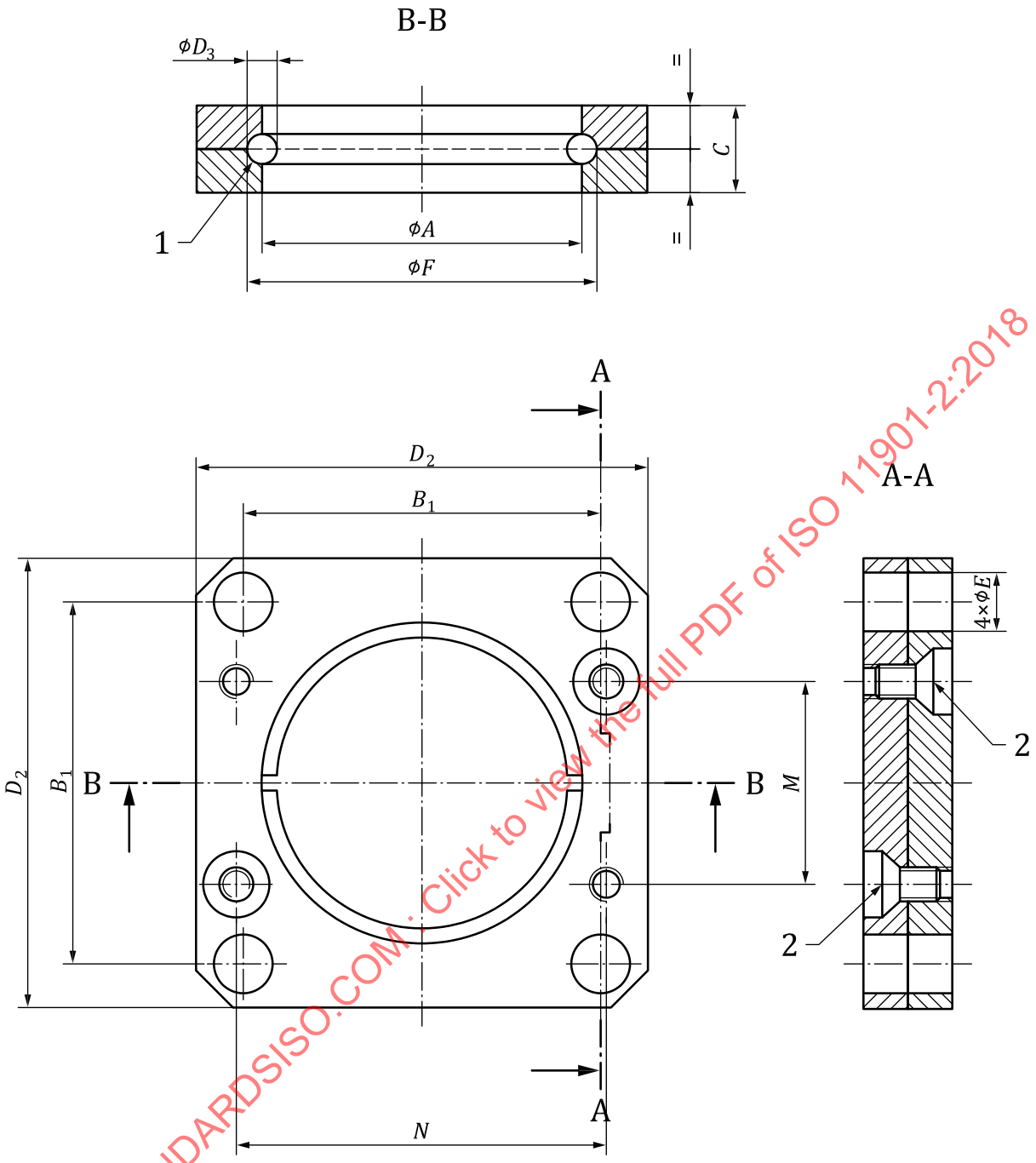
2 assembly screws

NOTE The two flange halves are held together with assembly screws.

Figure 4 — Cylindrical flange mounts – Type C1

4.4.2 Type C2 — Square flange mounts

Square flange mounts of type C2 shall conform to the indications of Figure 5 and Table 4.



Key

1 plain ring

2 assembly screws

NOTE The two flange halves are held together with assembly screws.

Figure 5 — Square flange mounts – Type C2

4.4.3 Mounting of the flange mounts types C1 and C2 on gas spring

Mounting of the flange mounts types C1 and C2 on gas spring shall conform to the indications of Figure 6 and Table 4.

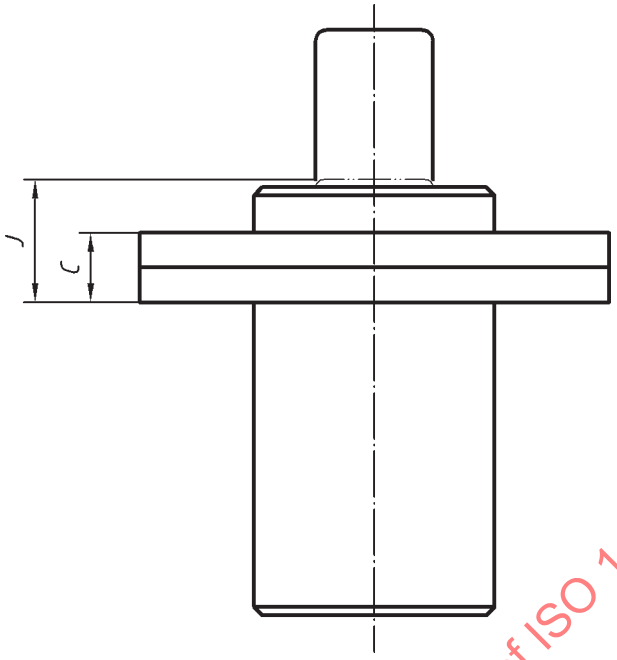


Figure 6 — Mounting of flange mount

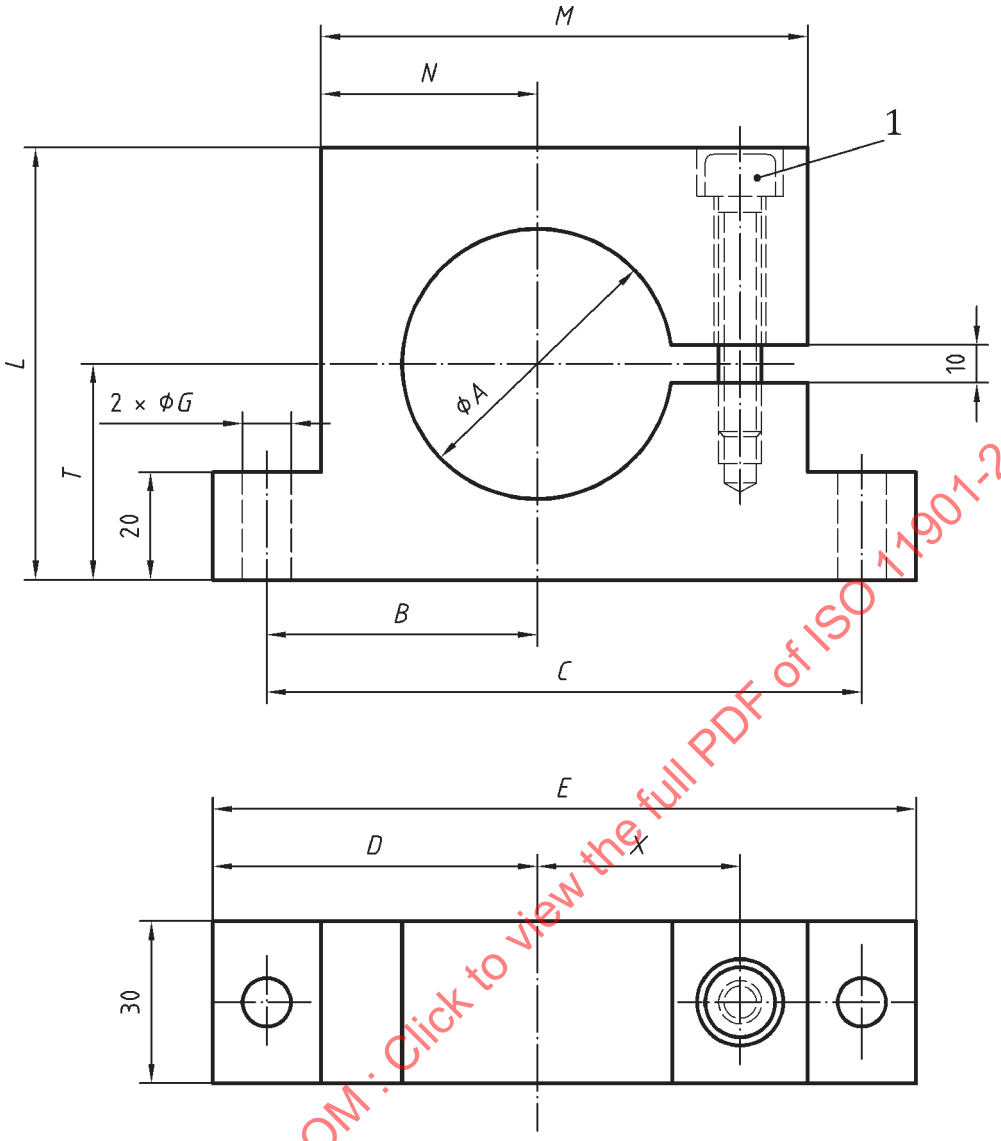
Table 4 — Dimensions of flange mounts — Types C1 and C2

Mount for gas spring cylinder diameter ±0,3	*A* ±0,1	*B*	B_1	*C*	D_1	D_2	D_3 h10	*E*	*F* +0,1 −0,3	*J*	*K* ±1	*L* ±1	*M* ±1	*N* ±1	Reference of mount type
32	32,5	35	35	9	60	45	2	6,6	34	17	19	44	20	36	C1 and C2
38	38,5	40	40	9	68	52	2	6,6	40	17	25	50,8	24	42	C1 and C2
45	45,5	50	50	13	86	64	2	9	47	23	31,5	63,3	29,2	51,2	C1 and C2
50	50,5	56,5	56,5	13	95	70	4	9	54	24	38,3	70,2	35,5	55,4	C1 and C2
63	63,5	73,5	64	16	122	80	4	11	67	27	53	89,5	40,5	67	C1 and C2
75	75,5	73,5	73,5	16	122	90	5	11	80	29	53	89,5	47,7	76,3	C1 and C2
95	95,5	92	92	18	150	110	5	13,5	100	33	70,5	109,2	64	93,9	C1 and C2
120	120,5	109,5	109,5	21	175	130	5	13,5	125	36	88	127,6	82	113	C1 and C2
150	150,5	138	138	27	220	162	5	17,5	155	41	112	159,6	105	144,3	C1 and C2
195	195,5	170	170	27	290	210	5	17,5	200	47	144	192,5	140	184,9	C1 and C2

4.5 Type D — Front end supports

4.5.1 Type D1

Front end supports of type D1 shall conform to the indications of Figure 7 and Table 5.



Key

1 screw

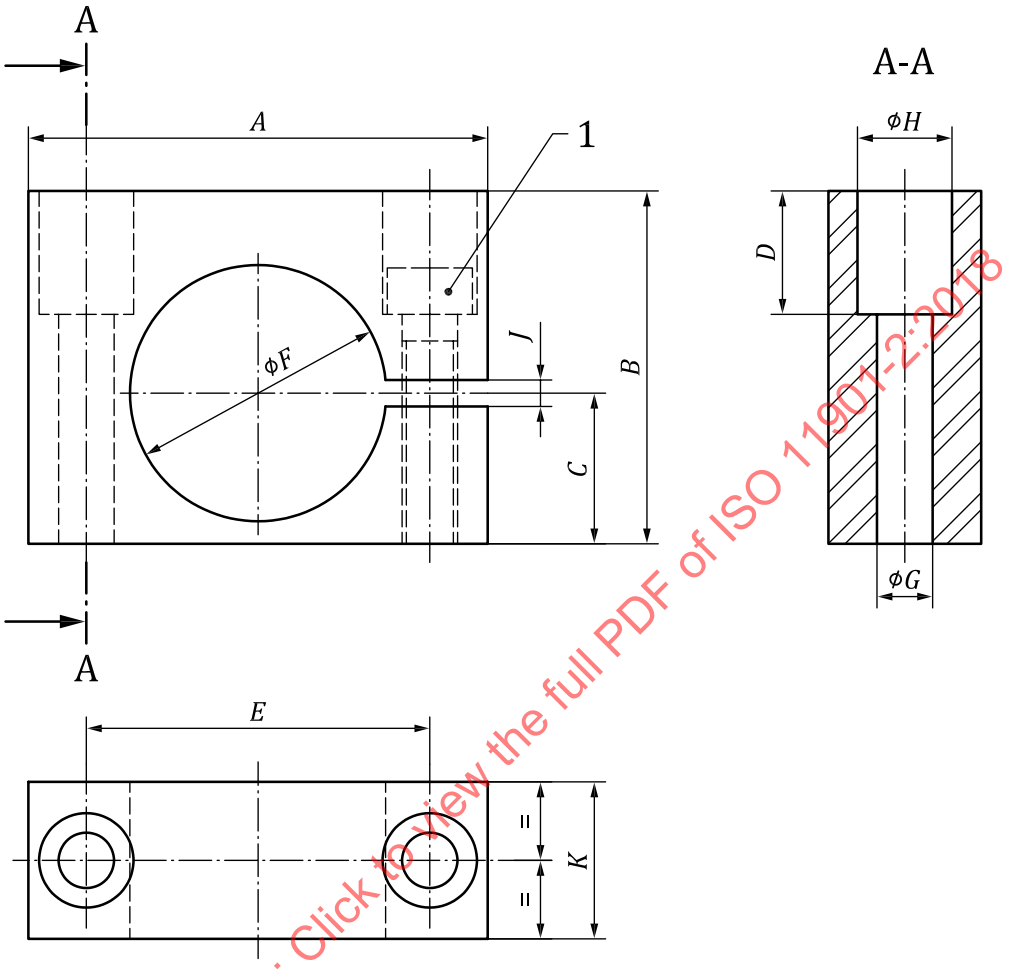
Figure 7 — Front end supports – Type D1

Table 5 — Dimensions of front end supports – Type D1

Mount for gas spring cylinder diameter ±0,3	*A* ±0,1	*B*	*C*	*D*	*E*	*G*	*L*	*M*	*N*	Screw	*T*	*X*
50	50	50	110	60	130	9	80	90	40	M8	40	37,5
75	75	63,5	137	75	160	11	105	115	52,5	M10	52,5	50
95	95	80	170	92,5	195	13,5	125	145	67,5	M12	62,5	62,5
120	120	92,5	195	105	220	13,5	148	165	77,5	M12	74	73,7
150	150	110	230	125	260	13,5	200	200	95	M12	100	90

4.5.2 Type D2

Front end supports of type D2 shall conform to the indications of Figure 8 and Table 6.



Key

1 screw

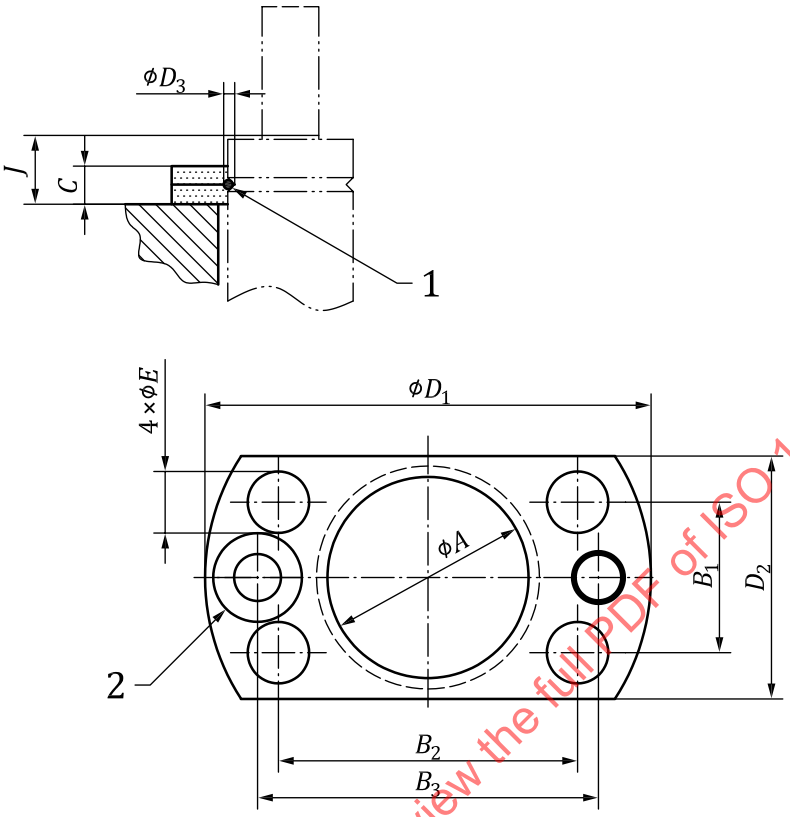
Figure 8 — Front end supports – Type D2

Table 6 — Dimensions of front end supports – Type D2

Mount for gas spring cylinder diameter ±0,3	*A*	*B*	*C*	*D*	*E*	*F* +0,1	*G*	*H*	*J*	*K*
32	68	48	20,9	10	50	32,5	9	15	4	20
38	74	54	23,9	16	54	38,5	9	15	4	20
45	80	60	27,5	22	60	45,5	9	15	4	20
50	90	70	30	25	68	50,5	11	18	5	30
63	108	82	36,5	27	84	63,5	11	18	5	30
75	125	94	42	32	100	75,5	13,5	20	5	30
95	140	115	52,5	33	115	95,5	13,5	20	5	30
120	170	140	65	58	145	120,5	13,5	20	7	30
150	200	170	80	68	175	150,5	13,5	20	7	30

4.6 Type E — Rectangular flange mounts

Rectangular flange mounts of type E shall conform to the indications of Figure 9 and Table 7.



Key

1 plain ring

2 assembly screws

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

Figure 9 — Rectangular flange mounts – Type E

Table 7 — Dimensions of rectangular flange mounts – Type E

Mount for gas spring cylinder diameter ±0,3	A ±0,1	B_1	B_2	B_3	C	D_1	D_2	D_3 h10	E	J
19	19,5	12	30	32	9	44	25	2	6,6	21,5
25	25,5	18	34	38	9	50	30	2	6,6	21,5

5 Material

The material shall be steel E 355C, defined in ISO 630-1, or any material with equivalent mechanical characteristics.