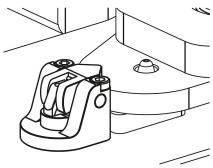


Item description/product images





Description

Product description:

Rotary lever clamps are highly suited for use in cramped conditions. Due to the compactness of the rotary lever clamps, they can be used in a variety of ways in clamping fixtures with little use of space and thus often enable flexible solutions.

Material:

Housing aluminium. Piston steel.

Version:

Piston hardened.

Note:

By the rotary lever clamps, the clamping lever is connected to the piston rod. The air supply for the rotary lever clamps is via drilled channels.

The clamping lever moves towards the workpiece with a linear stroke and clamps it. When releasing, the clamping lever retracts so far that the workpiece can be removed vertically. The single stroke of a rotary lever clamp depends on the clamping lever selection.

The clamping elements must be checked regularly for dirt and cleaned if necessary. When selecting the installation position, it must be ensured that no swarf nests can form in the swivel area of the lever of the rotary lever clamp.

The flange surface of the rotary lever clamp should be adapted to the height of the workpiece during installation and a horizontal positioning of the clamping point should be available.

By positioning the rotary lever clamp correctly, workpiece tolerances can be optimally compensated for despite the short clamping lever.

High forces can be generated with the rotary lever clamps. It must be ensured that the workpieces and clamping fixtures are designed for these loads.

Rotary lever clamps can be fitted with individual tension levers. The clamping force of a rotary lever clamp is dependent on the lever length.

The tension lever for the rotary lever clamp is not supplied.

Follow safety instructions.

Type of operation:

Drilled channels.

Technical data:

Max. operating pressure: 6 bar.

Assembly:

See mounting contour.

Advantages:

- No lateral forces during clamping.
- Low mounting dimensions.
- Wide selection of levers.
- Collision-free accessibility to the workpiece.
- Lineless pressure supply.



Item description/product images

On request:

Larger piston diameters, longer strokes and with position control.

Supplied with:

Supplied with 4 DIN EN ISO 4762 cap screws, grade 8.8.

Accessory:

Tension levers for rotary lever clamps K1857.

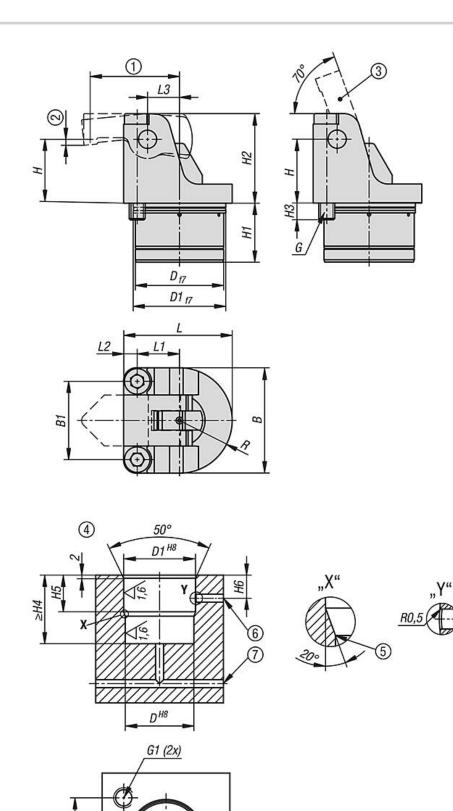
Drawing reference:

- 1) Tension lever length (see K1857)
- 2) Travel (see K1857)
- 3) See accessories
- 4) Mounting contour
- 5) Rounded edges
- 6) Loosen
- 7) Clamping





Drawings



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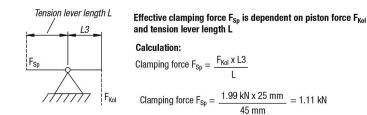
B1





Drawings

Calculating the effective clamping force with pneumatic rotary lever clamps:



Example:

Rotary lever clamp cylinder size 40 Operating pressure 6 bar Piston force F_{Kol} at 6 bar = 1.99 kN Dimension L3 acc. to table = 25 mm Tension lever length L = 45 mm Resulting effective clamping force F_{Sp} = 1.11 kN

Overview of items

K1870.321304

K1870.401304

Rotary lever clamps, pneumatic, double-acting

32

40

38

47

21

28

14,5

18,5

68

82

Order No.	Piston Ø	(Connec [.]	tion	В	B1	D	D1	G	G1	Н	H1	H2	H3
oraci no.	113101110	type			D	ы	U	DI	u	ui			112	110
K1870.121304	12	drilled channels			27	19,5	20	21	M4x25	M4x8	15	22	21	7
K1870.161304	16	drilled channels			34	25	27	28	M5x35	M5x11	20	24	28	10,5
K1870.201304	20	drilled channels			40	30	34	35	M6x40	M6x10	25	27,5	35	9
K1870.251304	25	drilled channels		52	38,5	43	44	M8x50	M8x12	31,25	32	43,75	11,5	
K1870.321304	32	drilled channels			66	49	57	58	M10x65	M10x1	6 40	37	56	15,5
K1870.401304	40	drilled channels			78	59	71	72	M12x80	M12x1	8 50	46	70	17,5
Order No.	Piston Ø	H4	H4 H5 H6		H6 L			L2	L3	R	Piston force at 6 bar		Effective piston area	
											(kN)	(cm ²)		
K1870.121304	12	22,5	12	9,5	27	9,75		3,75	7,5	13,5	0,14	2,27		
K1870.161304	16	24,5	13	10	35	13,5		4,5	10	17	0,27	4,52		
K1870.201304	20	28	15	11	41,5	16,5		5	12,5	20	0,42	7,06		
K1870.251304	25	33	19	13	53,5	20,75		6,75	15,63	26	0,68	11,34		

26,5

33,5

8,5

9,5

20

25

33

39

1,27

1,99

21,23

33,18