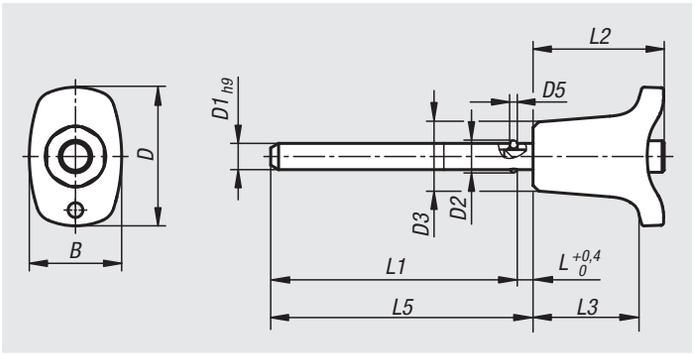
Ball lock pins

stainless steel, with headend lock



Material:
Grip thermoplastic.
Push button 1.4305 stainless steel.
Pin 1.4305 stainless steel.
Balls 1.4125 stainless steel.
Spring 1.4310 stainless steel wire.

Version:
Grip black.
Stainless steel bright.

Sample order:
nlm 03420-10-002605050
(include length L5 e.g. 050 for L5 = 50 mm)

Note:
Ball lock pins are used for easy fastening or joining of components.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. When the push button is released, the balls lock the connection securely.

Shear force double shear (F) = S · τ aB max.

The values given for the shear force are the theoretical breaking load.
These are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been calculated in accordance with DIN 50141. Each user must determine individually whether the ball lock pin is suitable for the respective application.

Different materials in which the ball lock pins are used, weather conditions and wear can influence the determined values.

Advantages:
Wide connections possible.
The pin length does not need to be coordinated with the component width.

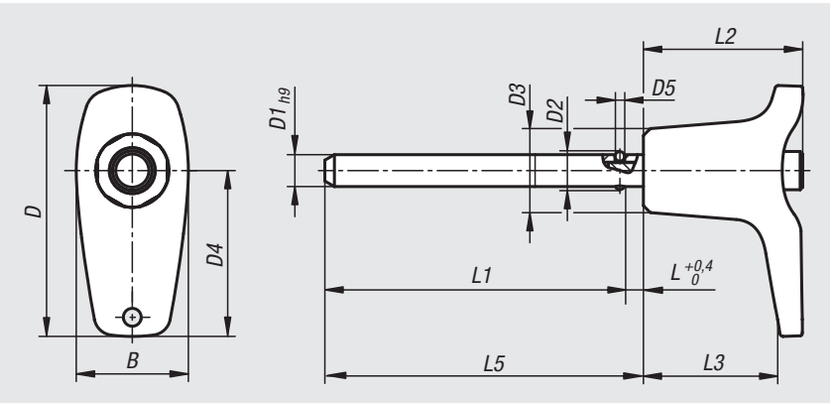
On request:
Other pin lengths.

Accessories:
Adapter bushes for ball lock pins with head lock 03425
Safety spiral cable 03199
Retaining cable with eyelet 03199
Key ring 03199

Order No.	B	D	D1	D2	D3	D5	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
03420-10-002605* **	17,6	26,4	5	5,5	13,2	1,5	3	47/97/147	25	20,2	50/100/150	5	10
03420-10-002606* **	17,6	26,4	6	6,85	13,2	2	3	47/97/147	25	20,2	50/100/150	6	14
03420-10-003308* **	23	33,2	8	9,5	17,3	3	3,5	96,5/146,5/196,5	33	26,1	100/150/200	8	26
03420-10-003310* **	23	33,2	10	12	17,3	4	3,5	96,5/146,5/196,5	33	26,1	100/150/200	10	40
03420-10-004612* **	33	45,9	12	14,5	26,3	4,5	3,5	146,5/196,5/246,5	39,5	31,3	150/200/250	12	57
03420-10-004616* **	33	45,9	16	19	26,3	6,5	4	146/196/246	39,5	31,3	150/200/250	16	100

Ball lock pins with L-grip

stainless steel, with head-end lock



Material:
Grip thermoplastic.
Push button 1.4305 stainless steel.
Pin 1.4305 stainless steel.
Balls 1.4125 stainless steel.
Spring 1.4310 stainless steel wire.

Version:
Grip black.
Stainless steel bright.

Sample order:
nlm 03420-10-102605050
(include length L5 e.g. 050 for L5 = 50 mm)

Note:
Ball lock pins are used for easy fastening or joining of components. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. When the push button is released, the balls lock the connection securely.

Shear force double shear (F) = S · τ aB max.

The values given for the shear force are the theoretical breaking load. These are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been calculated in accordance with DIN 50141. Each user must determine individually whether the ball lock pin is suitable for the respective application.

Different materials in which the ball lock pins are used, weather conditions and wear can influence the determined values.

Advantages:
Wide connections possible.
The pin length does not need to be coordinated with the component width.

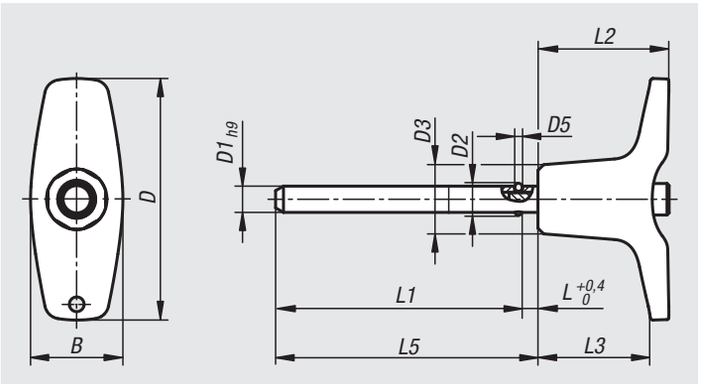
On request:
Other pin lengths.

Accessories:
Adapter bushes for ball lock pins with head lock 03425
Safety spiral cable 03199
Retaining cable with eyelet 03199
Key ring 03199

Order No.	B	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
03420-10-102605* **	17,6	39,3	5	5,5	13,2	26	1,5	3	47/97/147	25	19,2	50/100/150	5	10
03420-10-102606* **	17,6	39,3	6	6,85	13,2	26	2	3	47/97/147	25	19,2	50/100/150	6	14
03420-10-103508* **	23	52,2	8	9,5	17,3	35,4	3	3,5	96,5/146,5/196,5	33	24,2	100/150/200	8	26
03420-10-103510* **	23	52,2	10	12	17,3	35,4	4	3,5	96,5/146,5/196,5	33	24,2	100/150/200	10	40
03420-10-104712* **	33	70,2	12	14,5	26,3	47	4,5	3,5	146,5/196,5/246,5	39,5	28,4	150/200/250	12	57
03420-10-104716* **	33	70,2	16	19	26,3	47	6,5	4	146/196/246	39,5	28,4	150/200/250	16	100

Ball lock pins with T-grip

stainless steel, with head-end lock



Material:
Grip thermoplastic.
Push button 1.4305 stainless steel.
Pin 1.4305 stainless steel.
Balls 1.4125 stainless steel.
Spring 1.4310 stainless steel wire.

Version:
Grip black.
Stainless steel bright.

Sample order:
nlm 03420-10-204605050
(include length L5 e.g. 050 for L5 = 50 mm)

Note:
Ball lock pins are used for easy fastening or joining of components.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. When the push button is released, the balls lock the connection securely.

Shear force double shear (F) = S · τ aB max.

The values given for the shear force are the theoretical breaking load. These are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been calculated in accordance with DIN 50141. Each user must determine individually whether the ball lock pin is suitable for the respective application.

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Advantages:
Wide connections possible.
The pin length does not need to be coordinated with the component width.

On request:
Other pin lengths.

Accessories:
Adapter bushes for ball lock pins with head lock 03425
Safety spiral cable 03199
Retaining cable with eyelet 03199
Key ring 03199

Order No.	B	D	D1	D2	D3	D5	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
03420-10-204605* **	17,6	46	5	5,5	13,2	1,5	3	47/97/147	25	19,4	50/100/150	5	10
03420-10-204606* **	17,6	46	6	6,85	13,2	2	3	47/97/147	25	19,4	50/100/150	6	14
03420-10-206308* **	23	62,9	8	9,5	17,3	3	3,5	96,5/146,5/196,5	33	24,4	100/150/200	8	26
03420-10-206310* **	23	62,9	10	12	17,3	4	3,5	96,5/146,5/196,5	33	24,4	100/150/200	10	40
03420-10-208212* **	33	81,8	12	14,5	26,3	4,5	3,5	146,5/196,5/246,5	39,5	28,8	150/200/250	12	57
03420-10-208216* **	33	81,8	16	19	26,3	6,5	4	146/196/246	39,5	28,8	150/200/250	16	100