

Spring plungers, indexing plungers, ball lock pins



Spring plungers

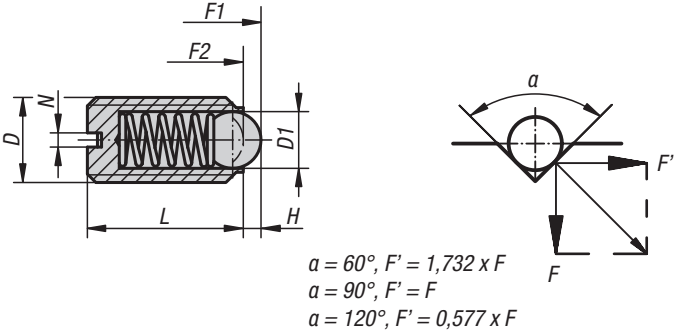
with slot and ball, steel



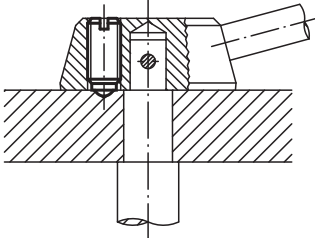
Material:
Sleeve steel grade 5.8.
Ball steel.
Spring grade D steel wire.

Version:
Black oxidised. Ball hardened.

Sample order:
K0309.203



handle indexing



Spring plungers

with slot and ball, steel

KIPP Spring plungers with slot and ball, standard spring

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.03	M3	1,5	7	0,4	0,4	1,5	3
K0309.04	M4	2,5	9	0,8	0,6	4	10
K0309.05	M5	3	12	0,9	0,8	6	11
K0309.06	M6	3,5	14	1	1	9	13
K0309.08	M8	5	16	1,5	1,2	15	30
K0309.10	M10	6	19	2	1,6	20	35
K0309.12	M12	8	22	2,5	2	30	55
K0309.16	M16	10	24	3,5	2,5	65	125
K0309.20	M20	12	30	4,5	2,5	80	160

KIPP Spring plungers with slot and ball, reinforced spring

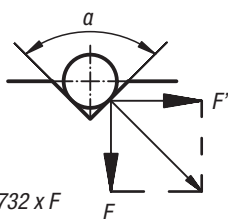
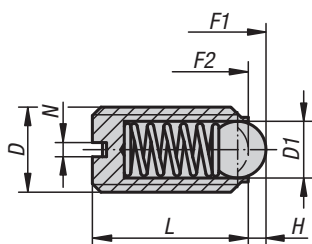
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.203	M3	1,5	7	0,4	0,4	5	7
K0309.204	M4	2,5	9	0,8	0,6	12	22
K0309.205	M5	3	12	0,9	0,8	19	30
K0309.206	M6	3,5	14	1	1	28	40
K0309.208	M8	5	16	1,5	1,2	47	73
K0309.210	M10	6	19	2	1,6	66	100
K0309.212	M12	8	22	2,5	2	66	120
K0309.216	M16	10	24	3,5	2,5	90	180
K0309.220	M20	12	30	4,5	2,5	115	240

KIPP Spring plungers with slot and ball, long version, standard spring

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.404	M4	2,5	16	0,8	0,6	4	10
K0309.405	M5	3	20	0,9	0,8	6	11
K0309.406	M6	3,5	25	1	1	9	13
K0309.408	M8	5	30	1,5	1,2	15	30
K0309.410	M10	6	35	2	1,6	20	35
K0309.412	M12	8	40	2,5	2	30	55
K0309.416	M16	10	45	3,5	2,5	65	125

Spring plungers

with slot and ball, stainless steel



$$\begin{aligned} \alpha = 60^\circ, F' &= 1,732 \times F \\ \alpha = 90^\circ, F' &= F \\ \alpha = 120^\circ, F' &= 0,577 \times F \end{aligned}$$

Material:

Sleeve 1.4305.

Ball 1.4034.

Spring 1.4310.

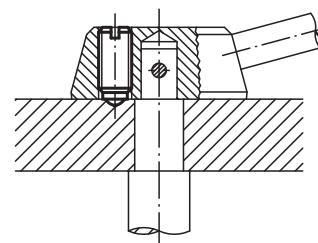
Version:

Bright. Ball hardened.

Sample order:

K0310.203

handle indexing



Spring plungers

with slot and ball, stainless steel

KIPP Spring plungers with slot and ball, standard spring

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.03	M3	1,5	7	0,4	0,4	1,5	3
K0310.04	M4	2,5	9	0,8	0,6	4	10
K0310.05	M5	3	12	0,9	0,8	6	11
K0310.06	M6	3,5	14	1	1	9	13
K0310.08	M8	5	16	1,5	1,2	15	30
K0310.10	M10	6	19	2	1,6	20	35
K0310.12	M12	8	22	2,5	2	30	55
K0310.16	M16	10	24	3,5	2,5	65	125
K0310.20	M20	12	30	4,5	2,5	80	160

KIPP Spring plungers with slot and ball, reinforced spring

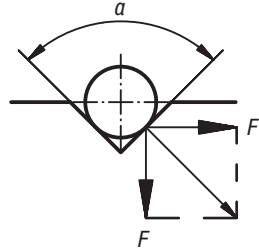
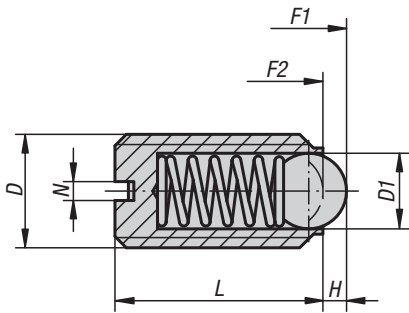
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.203	M3	1,5	7	0,4	0,4	5	7
K0310.204	M4	2,5	9	0,8	0,6	12	22
K0310.205	M5	3	12	0,9	0,8	19	30
K0310.206	M6	3,5	14	1	1	28	40
K0310.208	M8	5	16	1,5	1,2	47	73
K0310.210	M10	6	19	2	1,6	66	100
K0310.212	M12	8	22	2,5	2	66	120
K0310.216	M16	10	24	3,5	2,5	90	180
K0310.220	M20	12	30	4,5	2,5	115	240

KIPP Spring plungers with slot and ball, long version, standard spring

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.404	M4	2,5	16	0,8	0,6	4	10
K0310.405	M5	3	20	0,9	0,8	6	11
K0310.406	M6	3,5	25	1	1	9	13
K0310.408	M8	5	30	1,5	1,2	15	30
K0310.410	M10	6	35	2	1,6	20	35
K0310.412	M12	8	40	2,5	2	30	55
K0310.416	M16	10	45	3,5	2,5	65	125

Spring plungers

with slot and POM ball, plastic



$$a = 60^\circ, F' = 1,732 \times F$$

$$a = 90^\circ, F' = F$$

$$a = 120^\circ, F' = 0,577 \times F$$



Material:
Sleeve plastic.
Ball POM.
Spring 1.4310 wire.

Version:
Ball, white.

Sample order:
K0311.10

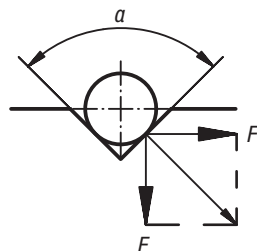
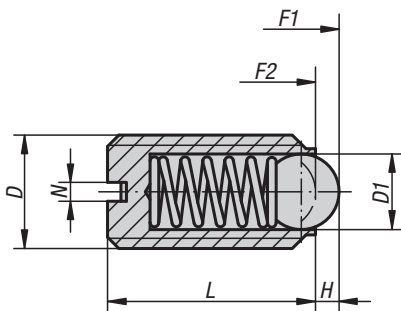
Note:
Spring plungers are used for indexing and positioning.
They can also be used as ejectors.

KIPP Spring plungers with slot and POM ball, plastic

Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0311.06	M6	3,5	1	14	1	9	13
K0311.08	M8	5	1,5	16	1,2	15	30
K0311.10	M10	6	2	19	1,6	20	40

Spring plungers

with slot and stainless steel ball, plastic



$$a = 60^\circ, F' = 1,732 \times F$$

$$a = 90^\circ, F' = F$$

$$a = 120^\circ, F' = 0,577 \times F$$



Material:
Sleeve plastic.
Ball 1.4034 stainless steel.
Spring 1.4310.

Version:
Ball, hardened.

Sample order:
K0312.10

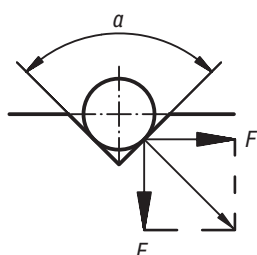
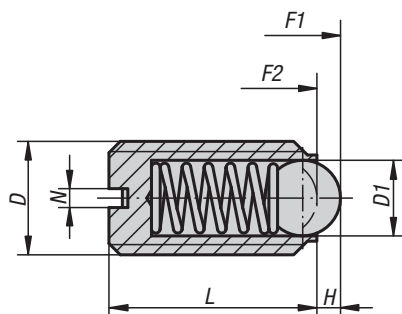
Note:
Spring plungers are used for indexing and positioning.
They can also be used as ejectors.

KIPP Spring plungers with slot and stainless steel ball, plastic

Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0312.06	M6	3,5	1	14	1	9	13
K0312.08	M8	5	1,5	16	1,2	15	30
K0312.10	M10	6	2	19	1,6	20	40

Spring plungers

with slot and ceramic ball, stainless steel



$$\alpha = 60^\circ, F' = 1,732 \times F$$

$$\alpha = 90^\circ, F' = F$$

$$\alpha = 120^\circ, F' = 0,577 \times F$$

Material:

Sleeve 1.4305.

Ceramic ball Si_3N_4 .

Spring 1.4310.

Version:

Bright.

Sample order:

K0609.05

Note:

The combination of excellent material properties is a special feature of silicon nitride (Si_3N_4). These include high resilience and stability, excellent wear properties and good chemical resistance.

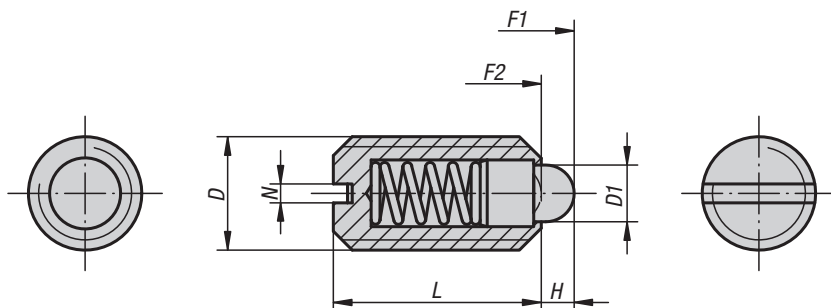


KIPP Spring plungers with slot and ceramic ball, stainless steel

Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0609.05	M5	3	0,9	12	0,8	6	11
K0609.06	M6	3,5	1	14	1	9	13
K0609.08	M8	5	1,5	16	1,2	15	30
K0609.10	M10	6	2	19	1,6	20	35
K0609.12	M12	8	2,5	22	2	30	55
K0609.16	M16	10	3,5	24	2,5	65	125

Spring plungers

with slot and thrust pin, steel



Material:

Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel wire grade D.

Version:

Black oxidised.
Thrust pin hardened.

Sample order:

K0313.10

KIPP Spring plungers with slot and thrust pin, standard spring force

Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.04	M4	1,8	1,5	9	0,6	6	20
K0313.05	M5	2,4	2	12	0,8	6	20
K0313.06	M6	2,7	2	14	1	7	20
K0313.08	M8	4	2	16	1,2	15	30
K0313.10	M10	4,5	2,5	19	1,6	20	35
K0313.12	M12	6	3,5	22	2	30	55
K0313.16	M16	8,5	4,5	24	2,5	45	100
K0313.20	M20	10	6,5	30	2,5	60	120

KIPP Spring plungers with slot and thrust pin, light spring force

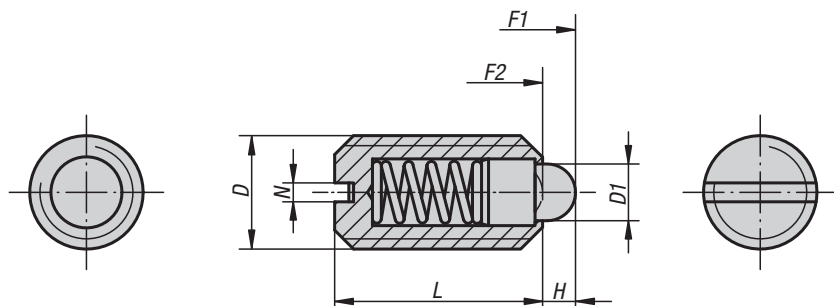
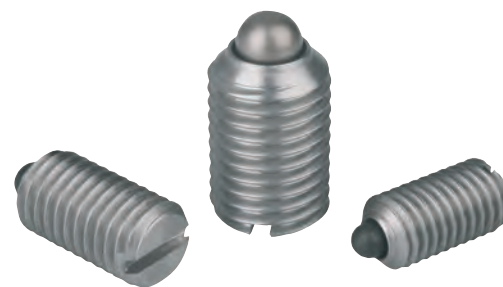
Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.104	M4	1,8	1,5	9	0,6	3	10
K0313.105	M5	2,4	2	12	0,8	3	10
K0313.106	M6	2,7	2	14	1	4	10
K0313.108	M8	4	2	16	1,2	7	15
K0313.110	M10	4,5	2,5	19	1,6	9	16
K0313.112	M12	6	3,5	22	2	14	26
K0313.116	M16	8,5	4,5	24	2,5	22	50
K0313.120	M20	10	6,5	30	2,5	30	60

KIPP Spring plungers with slot and thrust pin, reinforced spring force

Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.205	M5	2,4	2	12	0,8	9	25
K0313.206	M6	2,7	2	14	1	11	25
K0313.208	M8	4	2	16	1,2	22	43
K0313.210	M10	4,5	2,5	19	1,6	20	54
K0313.212	M12	6	3,5	22	2	36	94
K0313.216	M16	8,5	4,5	24	2,5	60	110

Spring plungers

with slot and thrust pin, stainless steel



Material:
Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

Version:
Bright.
Thrust pin hardened.

Sample order:
K0314.10

KIPP Spring plungers with slot and thrust pin, standard spring force

Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.04	M4	1,8	1,5	9	0,6	6	20
K0314.05	M5	2,4	2	12	0,8	6	20
K0314.06	M6	2,7	2	14	1	7	20
K0314.08	M8	4	2	16	1,2	15	30
K0314.10	M10	4,5	2,5	19	1,6	20	35
K0314.12	M12	6	3,5	22	2	30	55
K0314.16	M16	8,5	4,5	24	2,5	45	100
K0314.20	M20	10	6,5	30	2,5	60	120

KIPP Spring plungers with slot and thrust pin, light spring force

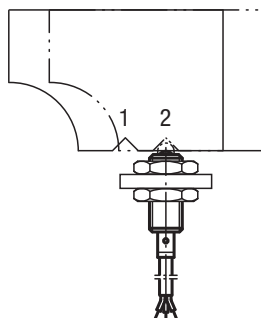
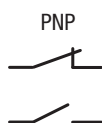
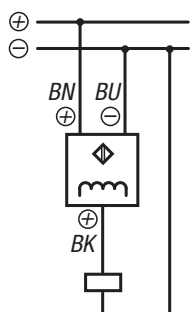
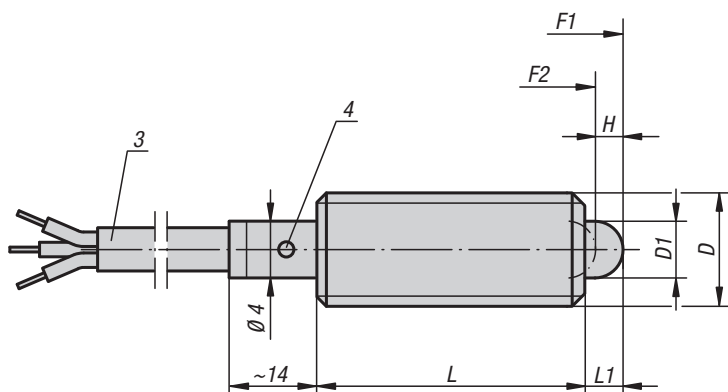
Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.104	M4	1,8	1,5	9	0,6	3	10
K0314.105	M5	2,4	2	12	0,8	3	10
K0314.106	M6	2,7	2	14	1	4	10
K0314.108	M8	4	2	16	1,2	7	15
K0314.110	M10	4,5	2,5	19	1,6	9	16
K0314.112	M12	6	3,5	22	2	14	26
K0314.116	M16	8,5	4,5	24	2,5	22	50
K0314.120	M20	10	6,5	30	2,5	30	60

KIPP Spring plungers with slot and thrust pin, reinforced spring force

Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.205	M5	2,4	2	12	0,8	9	25
K0314.206	M6	2,7	2	14	1	11	25
K0314.208	M8	4	2	16	1,2	22	43
K0314.210	M10	4,5	2,5	19	1,6	20	54
K0314.212	M12	6	3,5	22	2	36	94
K0314.216	M16	8,5	4,5	24	2,5	60	110

Spring plungers

with status sensor



Material:

Sleeve, thrust pin and spring steel.
Inductive proximity switch.

Version:

Black oxidised.
Thrust pin hardened.

Sample order:

K0656.5081

Note:

An electrical control signal can be sent via the built-in end switch.

Voltage: $U = 10 - 30 \text{ V DC}$

Current: $I_{\text{max.}} = 200 \text{ mA}$

Temperature range: $-25 \text{ }^\circ\text{C} - +70 \text{ }^\circ\text{C}$

Protection class: IP 67

Safety:

Spring plungers with status sensor are not suitable for personal protection.

Drawing reference:

3) cable $\varnothing 3.5 \text{ mm}$; length ca. 2 m

4) LED-indicator

BN = brown

BK = black

BU = blue

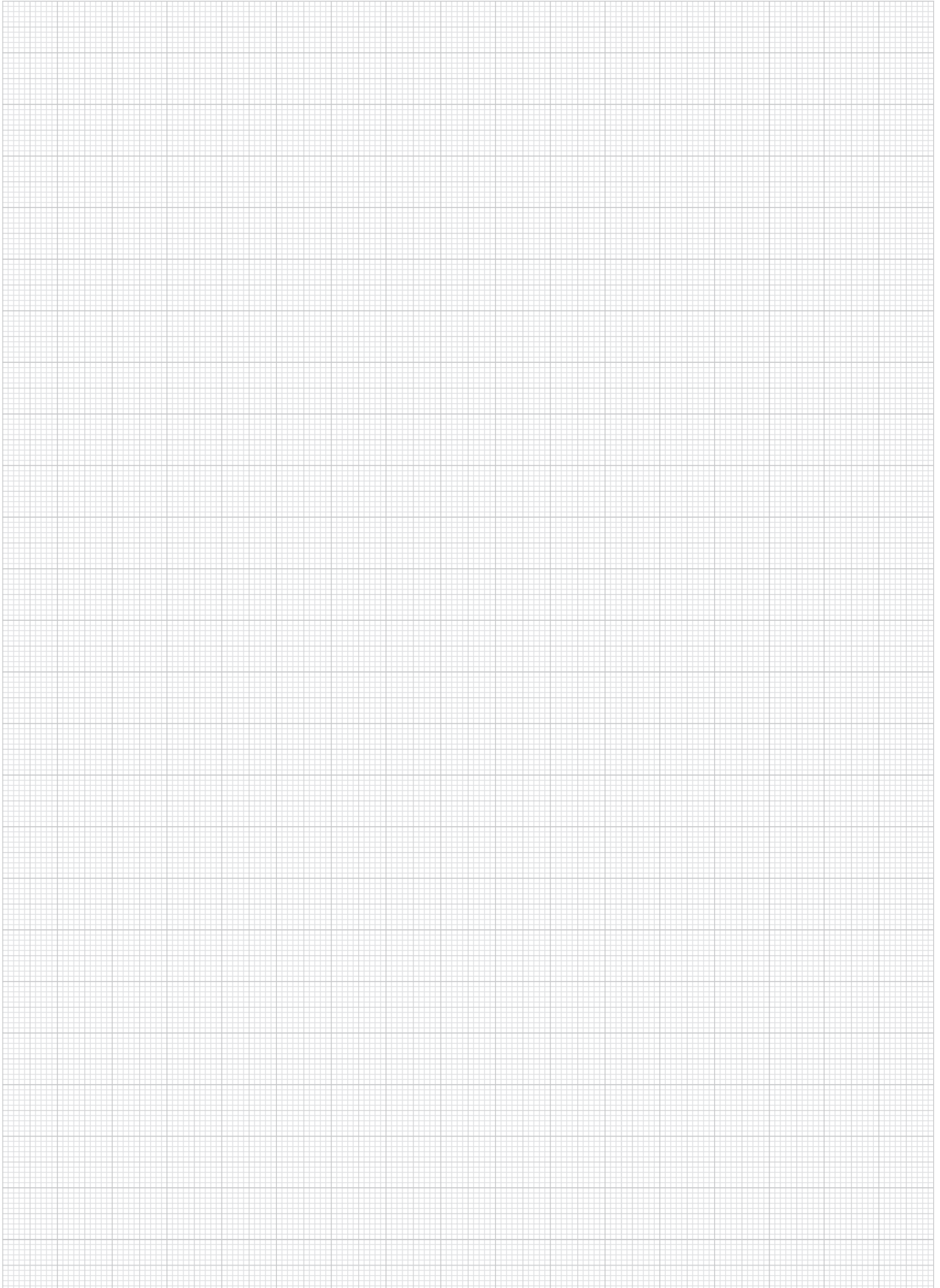
Example of position feedback:

Pos. 1: slide engaged

Pos. 2: slide disengaged

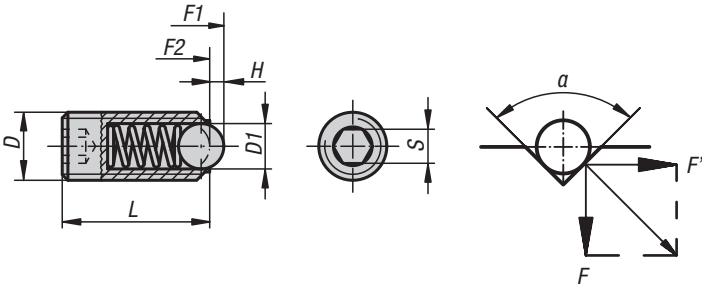
KIPP Spring plungers with status sensor

Order No.	Version 2	D	D1	H	L	L1	Switching contact from stroke H1	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0656.5061	normally closed	M6	2,7	2	27	3	1,2 - 1,6	7	20
K0656.5081	normally closed	M8	4	2	29	3	1,2 - 1,8	15	30
K0656.5101	normally closed	M10	4,5	3	36	4	2,2 - 2,8	26	44
K0656.5062	normally open	M6	2,7	2	27	3	1,2 - 1,6	7	20
K0656.5082	normally open	M8	4	2	29	3	1,2 - 1,8	15	30
K0656.5102	normally open	M10	4,5	3	36	4	2,2 - 2,8	26	44



Spring plungers

with hexagon socket and ball, steel

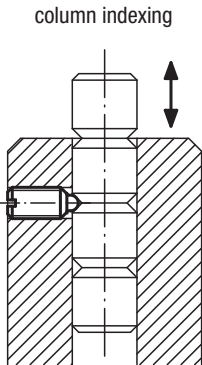


$\alpha = 60^\circ, F' = 1,732 \times F$
 $\alpha = 90^\circ, F' = F$
 $\alpha = 120^\circ, F' = 0,577 \times F$

Material:
Sleeve steel grade 5.8.
Ball steel.
Spring grade D steel wire.

Version:
Black oxidised. Ball hardened.

Sample order:
K0315.210



Spring plungers

with hexagon socket and ball, steel

KIPP Spring plungers with hexagon socket and ball, standard spring

Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.03	M3	1,5	0,4	9	1,5	1,5	3
K0315.04	M4	2,5	0,8	10	2	4	10
K0315.05	M5	3	0,9	14	2,5	6	11
K0315.06	M6	3,5	1	15	3	9	13
K0315.08	M8	5	1,5	18	4	15	30
K0315.10	M10	6	2	23	5	20	35
K0315.12	M12	8	2,5	26	6	30	55
K0315.16	M16	10	3,5	33	8	65	125
K0315.20	M20	12	4,5	43	10	80	160
K0315.24	M24	15	5,5	48	12	90	180

KIPP Spring plungers with hexagon socket and ball, reinforced spring

Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.203	M3	1,5	0,4	9	1,5	5	7
K0315.204	M4	2,5	0,8	10	2	12	22
K0315.205	M5	3	0,9	14	2,5	19	30
K0315.206	M6	3,5	1	15	3	28	40
K0315.208	M8	5	1,5	18	4	47	73
K0315.210	M10	6	2	23	5	66	100
K0315.212	M12	8	2,5	26	6	66	120
K0315.216	M16	10	3,5	33	8	90	180
K0315.220	M20	12	4,5	43	10	115	240
K0315.224	M24	15	5,5	48	12	130	270

KIPP Spring plungers with hexagon socket and ball, long version, standard spring

Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.404	M4	2,5	0,8	16	2	4	10
K0315.405	M5	3	0,9	20	2,5	6	11
K0315.406	M6	3,5	1	25	3	9	13
K0315.408	M8	5	1,5	30	4	15	30
K0315.410	M10	6	2	35	5	20	35
K0315.412	M12	8	2,5	40	6	30	55
K0315.416	M16	10	3,5	45	8	65	125

Spring plungers

with hexagon socket and ball, stainless steel



Material:

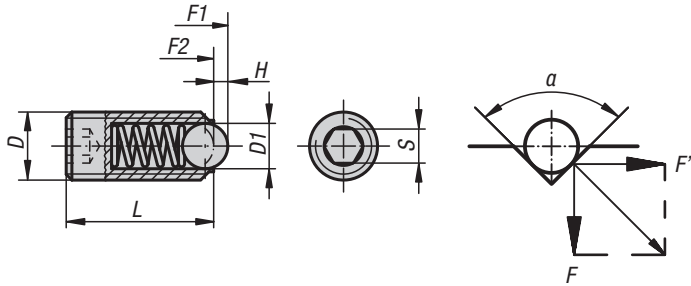
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

Version:

Bright. Ball hardened.

Sample order:

K0316.210

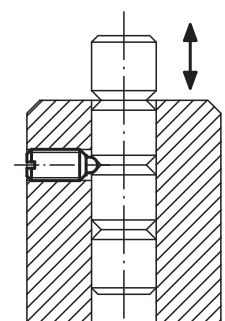


$$a = 60^\circ, F' = 1,732 \times F$$

$$a = 90^\circ, F' = F$$

$$a = 120^\circ, F' = 0,577 \times F$$

column indexing



Spring plungers

with hexagon socket and ball, stainless steel



KIPP Spring plungers with hexagon socket and ball, standard spring

Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.03	M3	1,5	0,4	9	1,5	1,5	3
K0316.04	M4	2,5	0,8	10	2	4	10
K0316.05	M5	3	0,9	14	2,5	6	11
K0316.06	M6	3,5	1	15	3	9	13
K0316.08	M8	5	1,5	18	4	15	30
K0316.10	M10	6	2	23	5	20	35
K0316.12	M12	8	2,5	26	6	30	55
K0316.16	M16	10	3,5	33	8	65	125
K0316.20	M20	12	4,5	43	10	80	160
K0316.24	M24	15	5,5	48	12	90	180

KIPP Spring plungers with hexagon socket and ball, reinforced spring

Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.203	M3	1,5	0,4	9	1,5	5	7
K0316.204	M4	2,5	0,8	10	2	12	22
K0316.205	M5	3	0,9	14	2,5	19	30
K0316.206	M6	3,5	1	15	3	28	40
K0316.208	M8	5	1,5	18	4	47	73
K0316.210	M10	6	2	23	5	66	100
K0316.212	M12	8	2,5	26	6	66	120
K0316.216	M16	10	3,5	33	8	90	180
K0316.220	M20	12	4,5	43	10	115	240
K0316.224	M24	15	5,5	48	12	130	270

KIPP Spring plungers with hexagon socket and ball, long version, standard spring

Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.404	M4	2,5	0,8	16	2	4	10
K0316.405	M5	3	0,9	20	2,5	6	11
K0316.406	M6	3,5	1	25	3	9	13
K0316.408	M8	5	1,5	30	4	15	30
K0316.410	M10	6	2	35	5	20	35
K0316.412	M12	8	2,5	40	6	30	55
K0316.416	M16	10	3,5	45	8	65	125



Spring plungers

with hexagon socket and ceramic ball, stainless steel



Material:

Sleeve 1.4305.
Ceramic ball Si_3N_4 .
Spring 1.4310.

Version:

Bright.

Sample order:

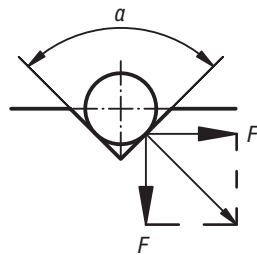
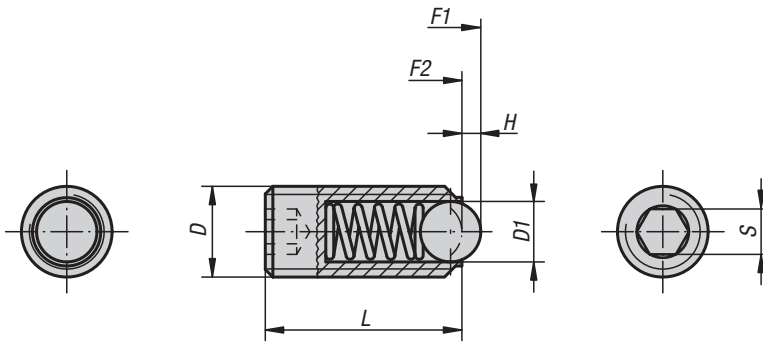
K0610.05

Note:

The combination of excellent material properties is a special feature of silicon nitride (Si_3N_4). These include high resilience and stability, excellent wear properties and good chemical resistance.

Advantages:

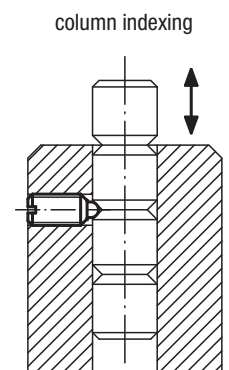
High temperature resistance.



$$a = 60^\circ, F' = 1,732 \times F$$

$$a = 90^\circ, F' = F$$

$$a = 120^\circ, F' = 0,577 \times F$$

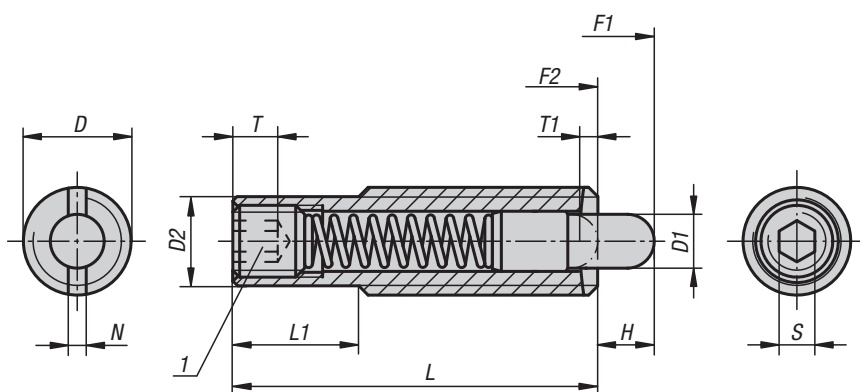


KIPP Spring plungers with hexagon socket and ceramic ball, stainless steel

Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0610.05	M5	3	0,9	14	2,5	6	11
K0610.06	M6	3,5	1	15	3	9	13
K0610.08	M8	5	1,5	18	4	15	30
K0610.10	M10	6	2	23	5	20	35
K0610.12	M12	8	2,5	26	6	30	55
K0610.16	M16	10	3,5	33	8	65	125

Spring plungers

with hexagon socket and thrust pin, long version



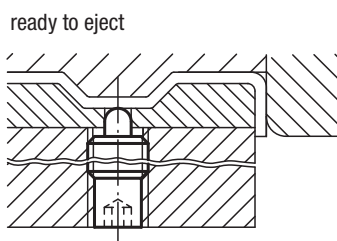
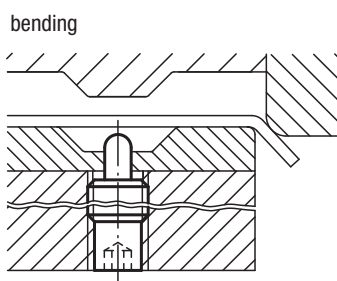
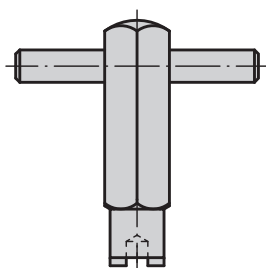
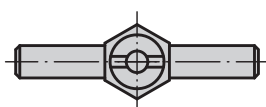
Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel wire grade D.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0657.616X60

Note:
These spring plungers are chiefly used as ejectors and spring stops in machine construction.

Drawing reference:
1) grub screw glued in



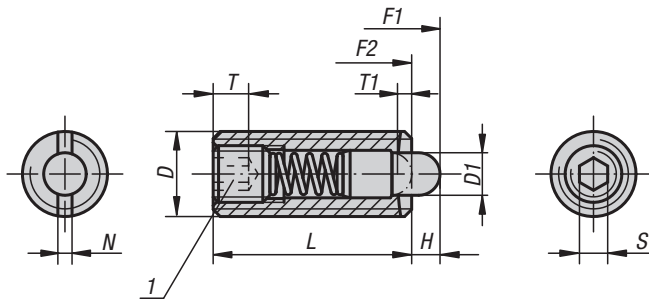
KIPP Spring thrust pin with hexagon socket and thrust pin, long version

Order No.	D	D1	D2	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0657.608X30	M8	3,5	6,2	30	10	6	2	1,4	1,2	2,5	8	20	K0317.908
K0657.608X40	M8	3,5	6,2	40	20	8	2	1,4	1,2	2,5	10	28	K0317.908
K0657.608X50	M8	3,5	6,2	50	30	10	2	1,4	1,2	2,5	12	38	K0317.908
K0657.608X60	M8	3,5	6,2	60	40	15	2	1,4	1,2	2,5	15	45	K0317.908
K0657.610X40	M10	4	8	40	10	8	2	1,4	1,6	3	12	30	K0317.910
K0657.610X50	M10	4	8	50	20	10	2	1,4	1,6	3	16	46	K0317.910
K0657.610X60	M10	4	8	60	30	15	2	1,4	1,6	3	20	55	K0317.910
K0657.610X80	M10	4	8	80	50	20	2	1,4	1,6	3	25	65	K0317.910
K0657.612X50	M12	6	9,6	50	20	10	3	2	2	4	20	50	K0317.912
K0657.612X60	M12	6	9,6	60	30	15	3	2	2	4	25	76	K0317.912
K0657.612X80	M12	6	9,6	80	50	20	3	2	2	4	35	102	K0317.912
K0657.612X100	M12	6	9,6	100	70	25	3	2	2	4	40	102	K0317.912
K0657.616X60	M16	7,5	13,4	60	30	12	6	2,5	2,5	5	30	64	K0317.916
K0657.616X80	M16	7,5	13,4	80	50	20	6	2,5	2,5	5	30	110	K0317.916
K0657.616X100	M16	7,5	13,4	100	70	30	6	2,5	2,5	5	30	120	K0317.916
K0657.616X120	M16	7,5	13,4	120	90	40	6	2,5	2,5	5	20	130	K0317.916



Spring plungers

with hexagon socket and thrust pin, steel



Material:

Sleeve steel grade 5.8.
 Thrust pin steel.
 Spring steel wire grade D.

Version:

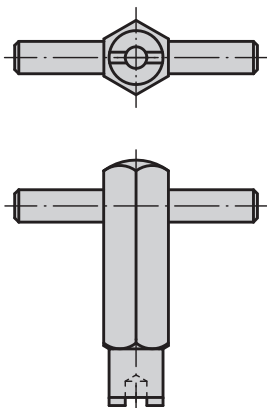
Black oxidised.
 Thrust pin hardened.

Sample order:

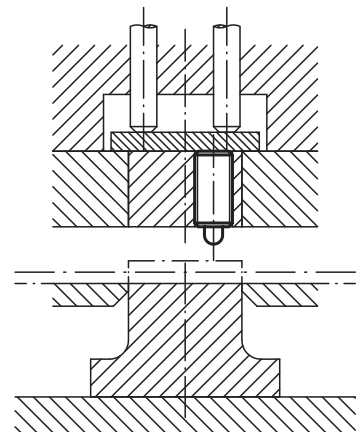
K0317.16

Drawing reference:

1) grub screw glued in



application example



Spring plungers

with hexagon socket and thrust pin, steel

KIPP Spring plungers with hexagon socket and thrust pin, standard spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0317.03	M3	1	1,5	10	1,5	1	0,4	0,7	0,5	3	K0317.903
K0317.04	M4	1,5	1,5	15	2	0,6	0,6	1,3	5	16	K0317.904
K0317.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	6	20	K0317.905
K0317.06	M6	2,7	2,5	20	2,5	1	1	2	7	20	K0317.906
K0317.08	M8	3,5	3	22	3	1,4	1,2	2,5	9	35	K0317.908
K0317.10	M10	4	3	22	3,5	1,4	1,6	3	9	35	K0317.910
K0317.12	M12	6	4	28	5	2	2	4	12	55	K0317.912
K0317.16	M16	7,5	5	32	6	2,5	2,5	5	45	100	K0317.916
K0317.20	M20	10	7	40	8	3	2,5	6	60	120	-
K0317.24	M24	12	10	52	10	3	2,5	8	80	160	-

KIPP Spring plungers with hexagon socket and thrust pin, light spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0317.104	M4	1,5	1,5	15	2	0,6	0,6	1,3	2	7	K0317.904
K0317.105	M5	2,4	2,3	18	2	0,8	0,8	1,5	3	10	K0317.905
K0317.106	M6	2,7	2,5	20	2,5	1	1	2	3	9	K0317.906
K0317.108	M8	3,5	3	22	3	1,4	1,2	2,5	4	16	K0317.908
K0317.110	M10	4	3	22	3,5	1,4	1,6	3	4	16	K0317.910
K0317.112	M12	6	4	28	5	2	2	4	5	27	K0317.912
K0317.116	M16	7,5	5	32	6	2,5	2,5	5	20	45	K0317.916

KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0317.205	M5	2,4	2,3	18	2	0,8	0,8	1,5	11	29	K0317.905
K0317.206	M6	2,7	2,5	20	2,5	1	1	2	14	37	K0317.906
K0317.208	M8	3,5	3	22	3	1,4	1,2	2,5	22	65	K0317.908
K0317.210	M10	4	3	22	3,5	1,4	1,6	3	19	70	K0317.910
K0317.212	M12	6	4	28	5	2	2	4	25	85	K0317.912
K0317.216	M16	7,5	5	32	6	2,5	2,5	5	60	150	K0317.916
K0317.220	M20	10	7	40	8	3	2,5	6	75	190	-
K0317.224	M24	12	10	52	10	3	2,5	8	95	240	-



Spring plungers

with hexagon socket and flattened thrust pin, steel



Material:

Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel wire grade D.

Version:

Black oxidised.
Thrust pin hardened.

Sample order:

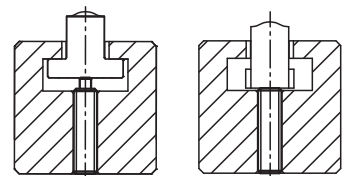
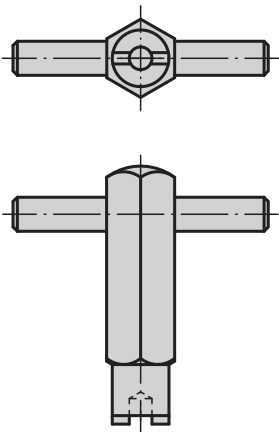
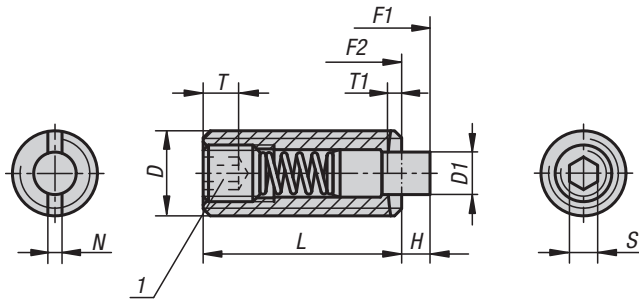
K1370.16

Note:

These spring plungers are chiefly used as ejectors and spring stops in machine construction. The thrust pin is actuated in the axial direction.

Drawing reference:

1) grub screw glued in

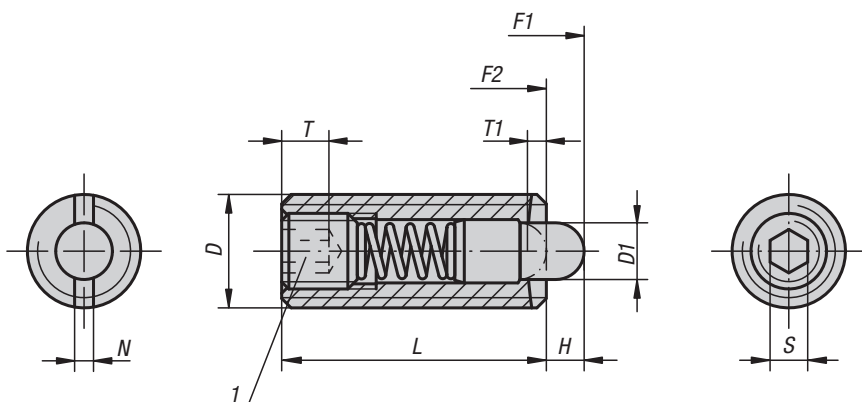


KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K1370.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	6	20	K0317.905
K1370.06	M6	2,7	2,5	20	2,5	1	1	2	7	20	K0317.906
K1370.08	M8	3,5	3	22	3	1,4	1,2	2,5	9	35	K0317.908
K1370.10	M10	4	3	22	3,5	1,4	1,6	3	9	35	K0317.910
K1370.12	M12	6	4	28	5	2	2	4	12	55	K0317.912
K1370.16	M16	7,5	5	32	6	2,5	2,5	5	45	100	K0317.916
K1370.20	M20	10	7	40	8	3	2,5	6	60	120	-

Spring plungers

with hexagon socket and POM thrust pin, steel

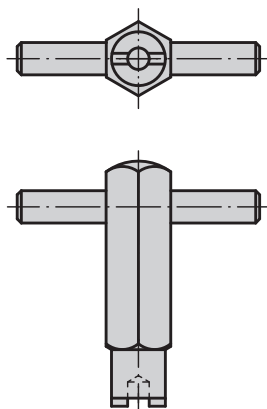


Material:
Sleeve steel grade 5.8.
Thrust pin POM.
Spring grade D steel wire.

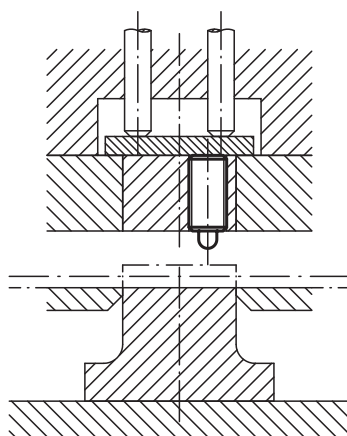
Version:
Black oxidised.

Sample order:
K0318.16

Drawing reference:
1) grub screw glued in



application example



KIPP Spring plungers with hexagon socket and thrust pin, standard spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0318.03	M3	1	1,5	10	1,5	1	0,4	0,7	0,5	3	K0317.903
K0318.04	M4	1,5	1,5	15	2	0,6	0,6	1,3	5	16	K0317.904
K0318.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	6	20	K0317.905
K0318.06	M6	2,7	2,5	20	2,5	1	1	2	7	20	K0317.906
K0318.08	M8	3,5	3	22	3	1,4	1,2	2,5	9	35	K0317.908
K0318.10	M10	4	3	22	3,5	1,4	1,6	3	9	35	K0317.910
K0318.12	M12	6	4	28	5	2	2	4	12	55	K0317.912
K0318.16	M16	7,5	5	32	6	2,5	2,5	5	45	100	K0317.916

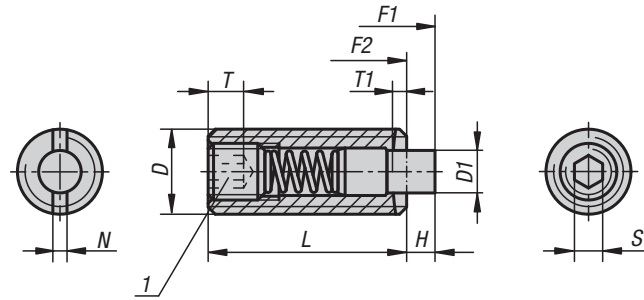
KIPP Spring plungers with hexagon socket and thrust pin, light spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0318.104	M4	1,5	1,5	15	2	0,6	0,6	1,3	2	7	K0317.904
K0318.105	M5	2,4	2,3	18	2	0,8	0,8	1,5	3	10	K0317.905
K0318.106	M6	2,7	2,5	20	2,5	1	1	2	3	9	K0317.906
K0318.108	M8	3,5	3	22	3	1,4	1,2	2,5	4	16	K0317.908
K0318.110	M10	4	3	22	3,5	1,4	1,6	3	4	16	K0317.910
K0318.112	M12	6	4	28	5	2	2	4	5	27	K0317.912
K0318.116	M16	7,5	5	32	6	2,5	2,5	5	20	45	K0317.916



Spring plungers

with hexagon socket and flattened POM thrust pin, steel



Material:

Sleeve steel grade 5.8.
Thrust pin POM.
Spring grade D steel wire.

Version:

Black oxidised.

Sample order:

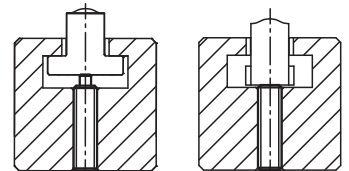
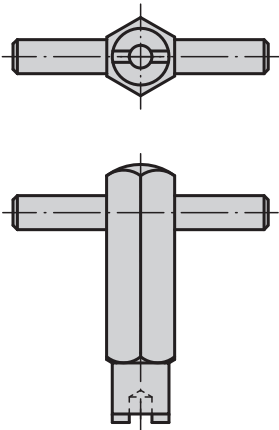
K1372.16

Note:

These spring plungers are chiefly used as ejectors and spring stops in machine construction. The thrust pin is actuated in the axial direction.

Drawing reference:

1) grub screw glued in

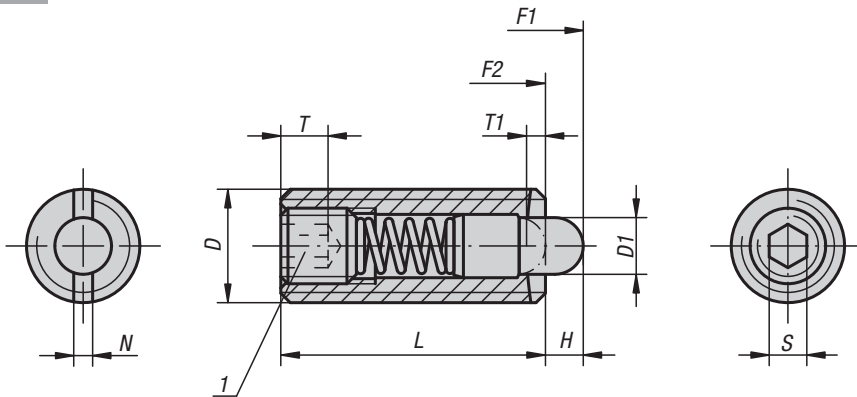


KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K1372.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	6	20	K0317.905
K1372.06	M6	2,7	2,5	20	2,5	1	1	2	7	20	K0317.906
K1372.08	M8	3,5	3	22	3	1,4	1,2	2,5	9	35	K0317.908
K1372.10	M10	4	3	22	3,5	1,4	1,6	3	9	35	K0317.910
K1372.12	M12	6	4	28	5	2	2	4	12	55	K0317.912
K1372.16	M16	7,5	5	32	6	2,5	2,5	5	45	100	K0317.916

Spring plungers

with hexagon socket and thrust pin, stainless steel



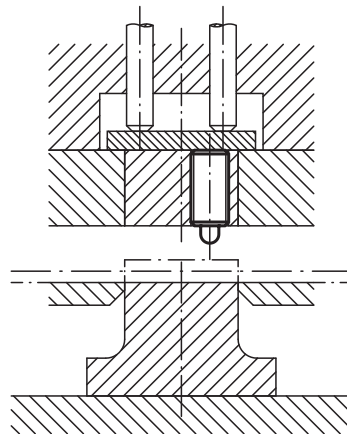
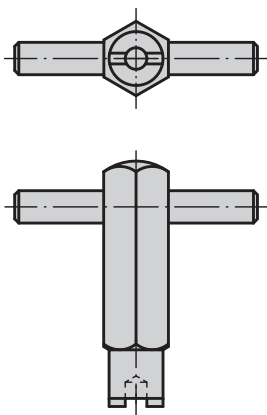
Material:
Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

Version:
Bright.
Thrust pin hardened.

Sample order:
K0319.16

Drawing reference:
1) grub screw glued in

application example



KIPP Spring plungers with hexagon socket and thrust pin, standard spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0319.03	M3	1	1,5	10	1,5	1	0,4	0,7	0,4	2,5	K0317.903
K0319.04	M4	1,5	1,5	15	2	0,6	0,6	1,3	5	16	K0317.904
K0319.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	5	17	K0317.905
K0319.06	M6	2,7	2,5	20	2,5	1	1	2	6	17	K0317.906
K0319.08	M8	3,5	3	22	3	1,4	1,2	2,5	7	29	K0317.908
K0319.10	M10	4	3	22	3,5	1,4	1,6	3	8	31	K0317.910
K0319.12	M12	6	4	28	5	2	2	4	10	47	K0317.912
K0319.16	M16	7,5	5	32	6	2,5	2,5	5	38	85	K0317.916

KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0319.205	M5	2,4	2,3	18	2	0,8	0,8	1,5	9	26	K0317.905
K0319.206	M6	2,7	2,5	20	2,5	1	1	2	11	35	K0317.906
K0319.208	M8	3,5	3	22	3	1,4	1,2	2,5	15	48	K0317.908
K0319.210	M10	4	3	22	3,5	1,4	1,6	3	15	58	K0317.910
K0319.212	M12	6	4	28	5	2	2	4	19	74	K0317.912



Spring plungers

with hexagon socket and flattened thrust pin, stainless steel



Material:

Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

Version:

Bright.
Thrust pin hardened.

Sample order:

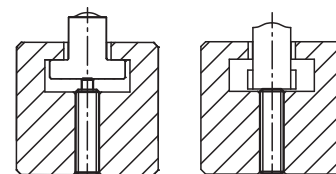
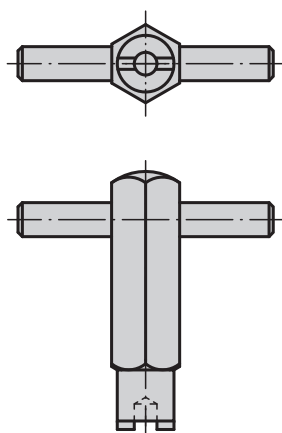
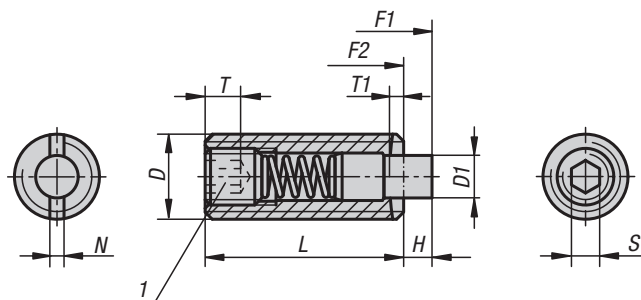
K1379.16

Note:

These spring plungers are chiefly used as ejectors and spring stops in machine construction. The thrust pin is actuated in the axial direction.

Drawing reference:

1) grub screw glued in



KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K1379.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	5	17	K0317.905
K1379.06	M6	2,7	2,5	20	2,5	1	1	2	6	17	K0317.906
K1379.08	M8	3,5	3	22	3	1,4	1,2	2,5	7	29	K0317.908
K1379.10	M10	4	3	22	3,5	1,4	1,6	3	8	31	K0317.910
K1379.12	M12	6	4	28	5	2	2	4	10	47	K0317.912
K1379.16	M16	7,5	5	32	6	2,5	2,5	5	38	85	K0317.916

Spring plungers

with hexagon socket and POM thrust pin, stainless steel

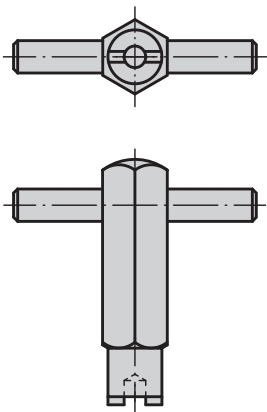
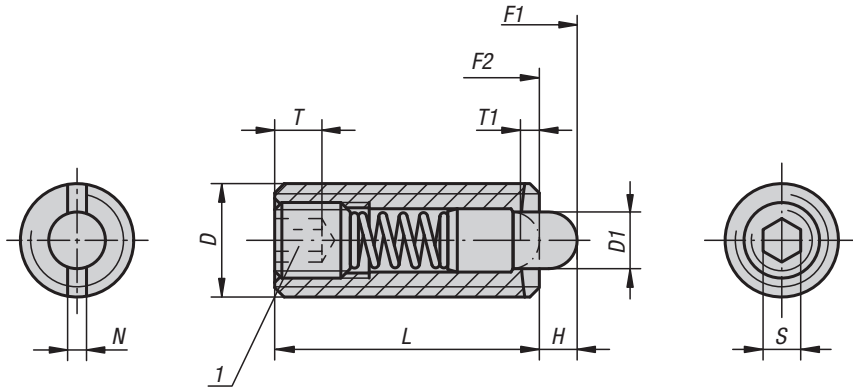


Material:
Sleeve 1.4305.
Thrust pin POM.
Spring 1.4310.

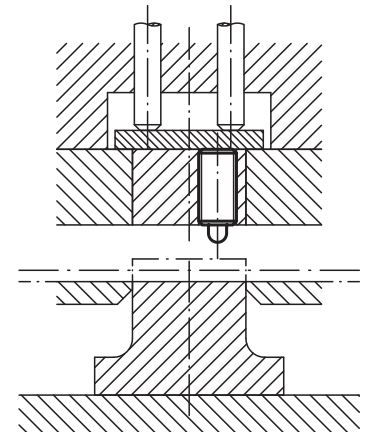
Version:
Bright.

Sample order:
K0320.16

Drawing reference:
1) grub screw glued in



application example



KIPP Spring plungers with hexagon socket and POM thrust pin, stainless steel

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0320.03	M3	1	1,5	10	1,5	1	0,4	0,7	0,5	3	K0317.903
K0320.04	M4	1,5	1,5	15	2	0,6	0,6	1,3	5	16	K0317.904
K0320.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	5	17	K0317.905
K0320.06	M6	2,7	2,5	20	2,5	1	1	2	6	17	K0317.906
K0320.08	M8	3,5	3	22	3	1,4	1,2	2,5	7	29	K0317.908
K0320.10	M10	4	3	22	3,5	1,4	1,6	3	8	31	K0317.910
K0320.12	M12	6	4	28	5	2	2	4	10	47	K0317.912
K0320.16	M16	7,5	5	32	6	2,5	2,5	5	38	85	K0317.916

Spring plungers

with hexagon socket and flattened POM thrust pin, stainless steel



Material:

Sleeve 1.4305.
Thrust pin POM.
Spring 1.4310.

Version:

Bright.

Sample order:

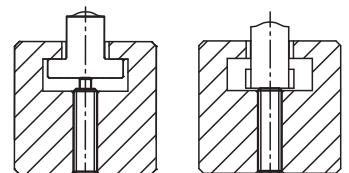
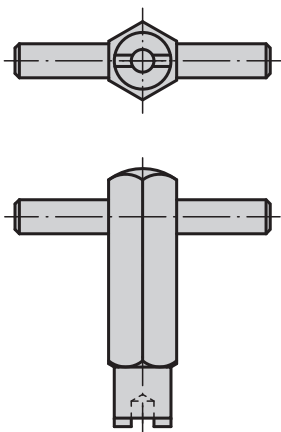
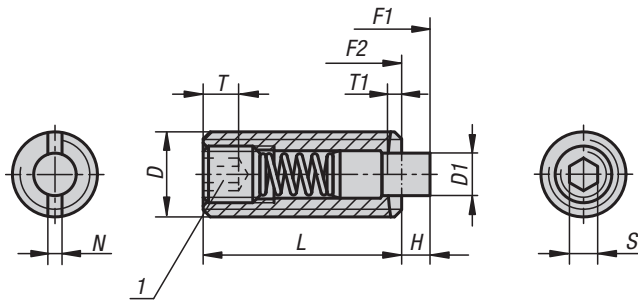
K1381.16

Note:

These spring plungers are chiefly used as ejectors and spring stops in machine construction. The thrust pin is actuated in the axial direction.

Drawing reference:

1) grub screw glued in



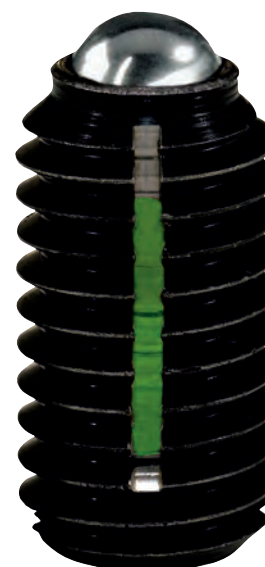
KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force

Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K1381.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	5	17	K0317.905
K1381.06	M6	2,7	2,5	20	2,5	1	1	2	6	17	K0317.906
K1381.08	M8	3,5	3	22	3	1,4	1,2	2,5	7	29	K0317.908
K1381.10	M10	4	3	22	3,5	1,4	1,6	3	8	31	K0317.910
K1381.12	M12	6	4	28	5	2	2	4	10	47	K0317.912
K1381.16	M16	7,5	5	32	6	2,5	2,5	5	38	85	K0317.916

Spring plungers with LONG-LOK thread lock



**LONG-LOK,
the most advanced
thread locking
mechanism**



With the following crucial advantages:

1. Vibration resistant.

The integrated LONG-LOK thread lock secures spring plungers rationally and economically. No loosening or falling out after impacts, knocks or vibrations.

2. Extremely high loosening torque.

The elastic nylon insert is squeezed like a wedge between the internal and external threads. The nylon locking system pushes the play between the threads to one side causing surface pressure on the thread flanks. The resulting loosening torque is higher than that by most conventional mechanical methods.

3. Secure in every position.

The LONG-LOK thread lock requires neither initial tension nor any defined position. This is ideal for the positioning of the spring plungers.

4. Saves assembly time and stocking space.

The LONG-LOK thread lock is integrated into spring plungers. There are no additional components. No circlips, no spring washers, no locking nuts. As a result, assembly and stocking costs are reduced considerably.

5. For repeated use.

When using the LONG-LOK thread lock for the first time, it requires a slightly higher screw-in torque. After third or fourth use, the last reached value remains nearly constant.

6. Problem solver from M3 to M16.

Light-weight or heavy-weight: name your requirements! We will supply you with the suitable spring plungers with integrated LONG-LOK thread lock.



Spring plungers

with slot and ball, LONG-LOCK secured, steel



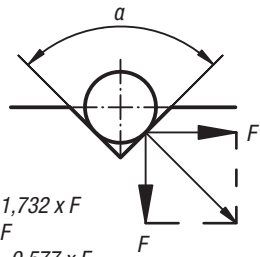
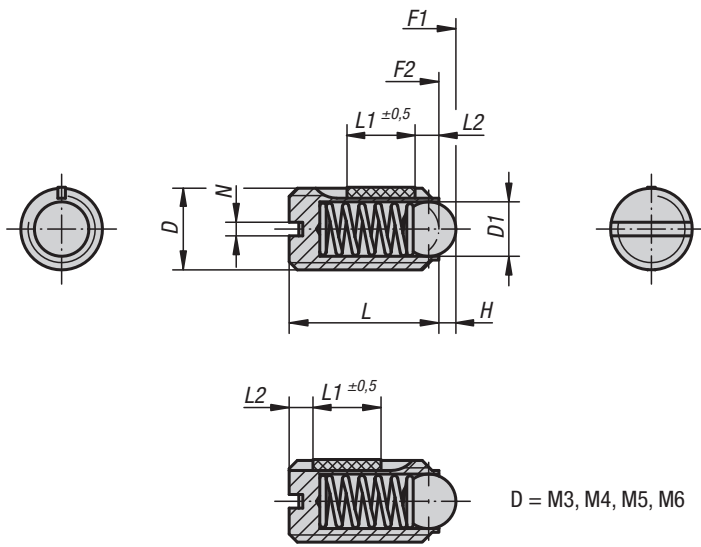
Material:
Sleeve steel grade 5.8.
Ball steel.
Spring steel wire grade D.

LONG-LOCK thread lock Nylon.

Version:
Black oxidised. Ball hardened.

Sample order:
K0321.12

Drawing reference:
L2 = approx. 2x thread pitch



KIPP Spring plungers with slot and ball, standard spring, LONG-LOCK secured

Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0321.03	M3	1,5	0,4	7	4	0,4	1,5	3	0,1	0,07
K0321.04	M4	2,5	0,8	9	5	0,6	4	10	0,18	0,12
K0321.05	M5	3	0,9	12	6	0,8	6	11	0,12	0,08
K0321.06	M6	3,5	1	14	7	1	9	13	0,43	0,21
K0321.08	M8	5	1,5	16	8	1,2	15	30	1,09	0,37
K0321.10	M10	6	2	19	9	1,6	20	35	1,36	0,62
K0321.12	M12	8	2,5	22	10	2	30	55	2,03	1,36
K0321.16	M16	10	3,5	24	14	2,5	65	125	3,95	2,95

KIPP Spring plungers with slot and ball, reinforced spring, LONG-LOCK secured

Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0321.203	M3	1,5	0,4	7	4	0,4	5	7	0,1	0,07
K0321.204	M4	2,5	0,8	9	5	0,6	12	22	0,18	0,12
K0321.205	M5	3	0,9	12	6	0,8	19	30	0,12	0,08
K0321.206	M6	3,5	1	14	7	1	28	40	0,43	0,21
K0321.208	M8	5	1,5	16	8	1,2	47	73	1,09	0,37
K0321.210	M10	6	2	19	9	1,6	66	100	1,36	0,62
K0321.212	M12	8	2,5	22	10	2	66	120	2,03	1,36
K0321.216	M16	10	3,5	24	14	2,5	90	180	3,95	2,95

Spring plungers

with slot and ball, LONG-LOK secured, stainless steel



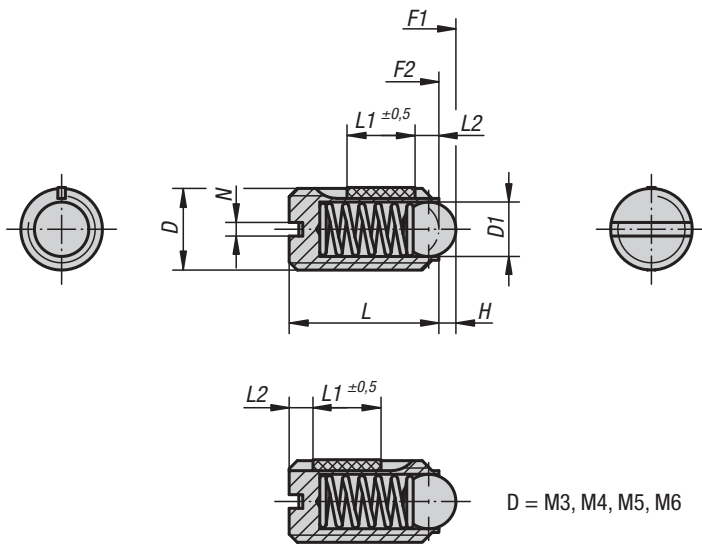
Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

LONG-LOK thread lock, Nylon.

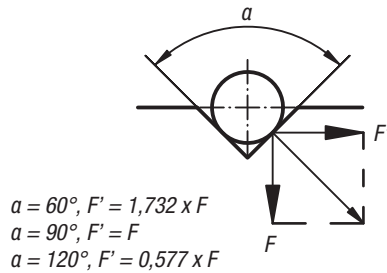
Version:
Bright. Ball hardened.

Sample order:
K0322.12

Drawing reference:
L2 = approx. 2x thread pitch



D = M3, M4, M5, M6



KIPP Spring plungers with slot and ball, standard spring, LONG-LOK secured

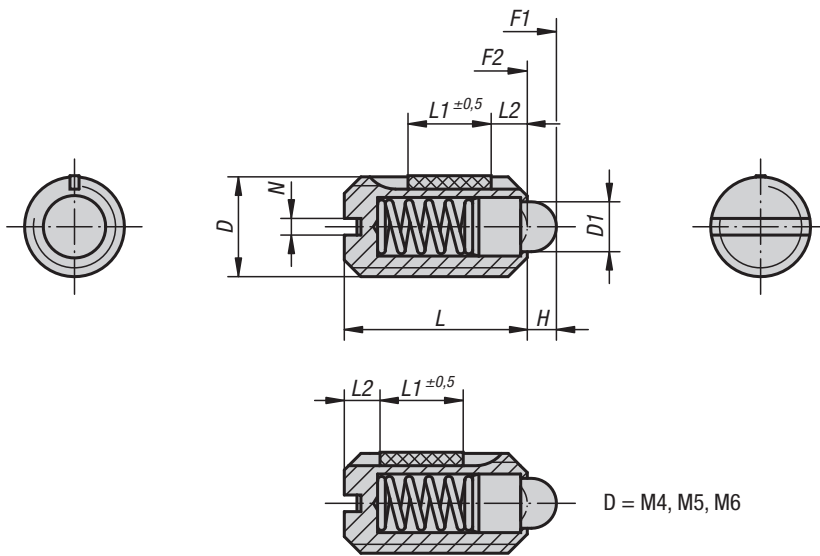
Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0322.03	M3	1,5	0,4	7	4	0,4	1,5	3	0,1	0,07
K0322.04	M4	2,5	0,8	9	5	0,6	4	10	0,18	0,12
K0322.05	M5	3	0,9	12	6	0,8	6	11	0,12	0,08
K0322.06	M6	3,5	1	14	7	1	9	13	0,43	0,21
K0322.08	M8	5	1,5	16	8	1,2	15	30	1,09	0,37
K0322.10	M10	6	2	19	9	1,6	20	35	1,36	0,62
K0322.12	M12	8	2,5	22	10	2	30	55	2,03	1,36
K0322.16	M16	10	3,5	24	14	2,5	65	125	3,95	2,95

KIPP Spring plungers with slot and ball, reinforced spring, LONG-LOK secured

Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0322.203	M3	1,5	0,4	7	4	0,4	5	7	0,1	0,07
K0322.204	M4	2,5	0,8	9	5	0,6	12	22	0,18	0,12
K0322.205	M5	3	0,9	12	6	0,8	19	30	0,12	0,08
K0322.206	M6	3,5	1	14	7	1	28	40	0,43	0,21
K0322.208	M8	5	1,5	16	8	1,2	47	73	1,09	0,37
K0322.210	M10	6	2	19	9	1,6	66	100	1,36	0,62
K0322.212	M12	8	2,5	22	10	2	66	120	2,03	1,36
K0322.216	M16	10	3,5	24	14	2,5	90	180	3,95	2,95

Spring plungers

with slot and thrust pin, LONG-LOK secured, steel



Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring grade D steel wire.

LONG-LOK thread lock Nylon.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0323.10

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with slot and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0323.04	M4	1,8	1,5	9	5	0,6	6	20	0,18	0,12
K0323.05	M5	2,4	2	12	6	0,8	6	20	0,12	0,08
K0323.06	M6	2,7	2	14	7	1	7	20	0,44	0,21
K0323.08	M8	4	2	16	8	1,2	15	30	1,1	0,38
K0323.10	M10	4,5	2,5	19	9	1,6	20	35	1,36	0,62
K0323.12	M12	6	3,5	22	10	2	30	55	2,11	1,41
K0323.16	M16	8,5	4,5	24	14	2,5	45	100	3,95	3,05

KIPP Spring plungers with slot and thrust pin, light spring force, LONG-LOK secured

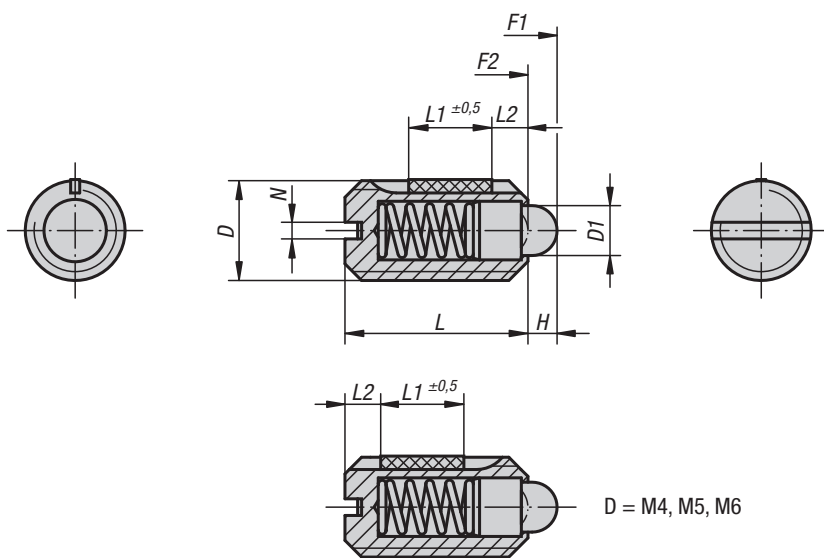
Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0323.104	M4	1,8	1,5	9	5	0,6	3	10	0,18	0,12
K0323.105	M5	2,4	2	12	6	0,8	3	10	0,12	0,08
K0323.106	M6	2,7	2	14	7	1	4	10	0,44	0,21
K0323.108	M8	4	2	16	8	1,2	7	15	1,1	0,38
K0323.110	M10	4,5	2,5	19	9	1,6	9	16	1,36	0,62
K0323.112	M12	6	3,5	22	10	2	14	26	2,11	1,41
K0323.116	M16	8,5	4,5	24	14	2,5	22	50	3,95	3,05

KIPP Spring plungers with slot and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0323.205	M5	2,4	2	12	6	0,8	9	25	0,12	0,08
K0323.206	M6	2,7	2	14	7	1	11	25	0,44	0,21
K0323.208	M8	4	2	16	8	1,2	22	43	1,1	0,38
K0323.210	M10	4,5	2,5	19	9	1,6	20	54	1,36	0,62
K0323.212	M12	6	3,5	22	10	2	36	94	2,11	1,41
K0323.216	M16	8,5	4,5	24	14	2,5	60	110	3,99	3,05

Spring plungers

with slot and thrust pin, LONG-LOK secured, stainless steel



Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

LONG-LOK thread lock, Nylon.

Version:
Bright.
Thrust pin hardened.

Sample order:
K0324.10

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with slot and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0324.04	M4	1,8	1,5	9	5	0,6	6	20	0,18	0,12
K0324.05	M5	2,4	2	12	6	0,8	6	20	0,12	0,08
K0324.06	M6	2,7	2	14	7	1	7	20	0,44	0,21
K0324.08	M8	4	2	16	8	1,2	15	30	1,1	0,38
K0324.10	M10	4,5	2,5	19	9	1,6	20	35	1,36	0,62
K0324.12	M12	6	3,5	22	10	2	30	55	2,11	1,41
K0324.16	M16	8,5	4,5	24	14	2,5	45	100	3,95	3,05

KIPP Spring plungers with slot and thrust pin, light spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0324.104	M4	1,8	1,5	9	5	0,6	3	10	0,18	0,12
K0324.105	M5	2,4	2	12	6	0,8	3	10	0,12	0,08
K0324.106	M6	2,7	2	14	7	1	4	10	0,44	0,21
K0324.108	M8	4	2	16	8	1,2	7	15	1,1	0,38
K0324.110	M10	4,5	2,5	19	9	1,6	9	16	1,36	0,62
K0324.112	M12	6	3,5	22	10	2	14	26	2,11	1,41
K0324.116	M16	8,5	4,5	24	14	2,5	22	50	3,95	3,05

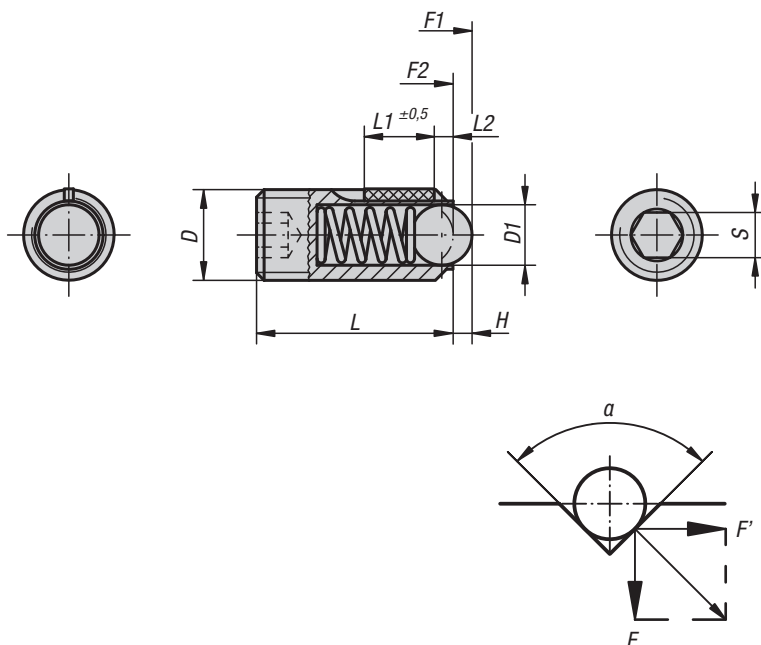
KIPP Spring plungers with slot and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0324.205	M5	2,4	2	12	6	0,8	9	25	0,12	0,08
K0324.206	M6	2,7	2	14	7	1	11	25	0,44	0,21
K0324.208	M8	4	2	16	8	1,2	22	43	1,1	0,38
K0324.210	M10	4,5	2,5	19	9	1,6	20	54	1,36	0,62
K0324.212	M12	6	3,5	22	10	2	36	94	2,11	1,41
K0324.216	M16	8,5	4,5	24	14	2,5	60	110	3,99	3,05



Spring plungers

with hexagon socket and ball, LONG-LOK secured, steel



$$a = 60^\circ, F' = 1,732 \times F$$

$$a = 90^\circ, F' = F$$

$$a = 120^\circ, F' = 0,577 \times F$$

Material:

Sleeve steel grade 5.8.
Ball steel.
Spring grade D steel wire.

LONG-LOK thread lock Nylon.

Version:

Black oxidised. Ball hardened.

Sample order:

K0325.08

Drawing reference:

L2 = approx. 2x thread pitch

KIPP Spring plungers with hexagon socket and ball, standard spring, LONG-LOK secured

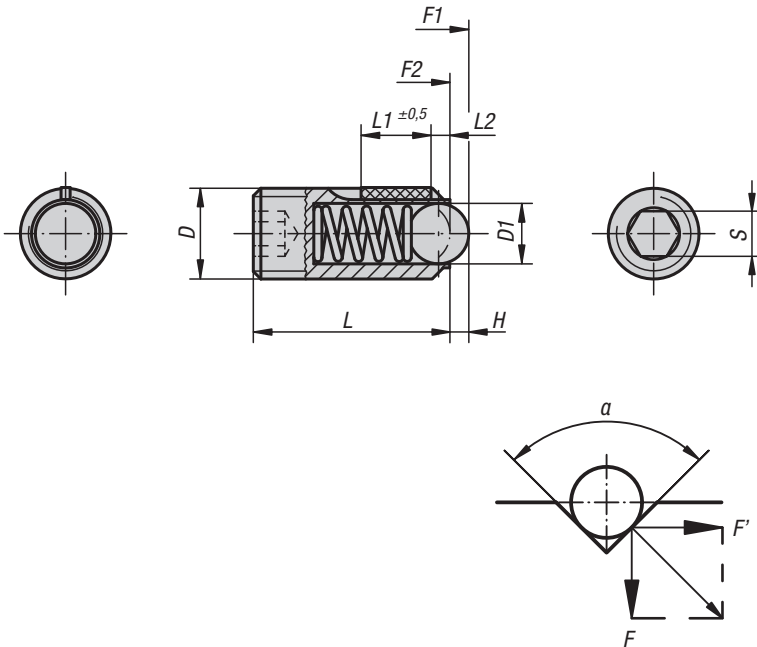
Order No.	D	D1	H	L	L1	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0325.03	M3	1,5	0,4	9	4	1,5	1,5	3	0,1	0,07
K0325.04	M4	2,5	0,8	10	5	2	4	10	0,18	0,12
K0325.05	M5	3	0,9	14	6	2,5	6	11	0,12	0,08
K0325.06	M6	3,5	1	15	7	3	9	13	0,44	0,21
K0325.08	M8	5	1,5	18	8	4	15	30	1,1	0,38
K0325.10	M10	6	2	23	9	5	20	35	1,3	0,6
K0325.12	M12	8	2,5	26	10	6	30	55	2	1,3
K0325.16	M16	10	3,5	33	14	8	65	125	3,9	3

KIPP Spring plungers with hexagon socket and ball, reinforced spring, LONG-LOK secured

Order No.	D	D1	H	L	L1	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0325.203	M3	1,5	0,4	9	4	1,5	5	7	0,1	0,07
K0325.204	M4	2,5	0,8	10	5	2	12	22	0,18	0,12
K0325.205	M5	3	0,9	14	6	2,5	19	30	0,12	0,08
K0325.206	M6	3,5	1	15	7	3	28	40	0,44	0,21
K0325.208	M8	5	1,5	18	8	4	47	73	1,1	0,38
K0325.210	M10	6	2	23	9	5	66	100	1,3	0,6
K0325.212	M12	8	2,5	26	10	6	66	120	2	1,3
K0325.216	M16	10	3,5	33	14	8	90	180	3,9	3

Spring plungers

with hexagon socket and ball, LONG-LOK secured stainless steel



$$a = 60^\circ, F' = 1,732 \times F$$

$$a = 90^\circ, F' = F$$

$$a = 120^\circ, F' = 0,577 \times F$$



Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

LONG-LOK thread lock, Nylon.

Version:
Bright. Ball hardened.

Sample order:
K0326.08

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with hexagon socket and ball, standard spring, LONG-LOK secured

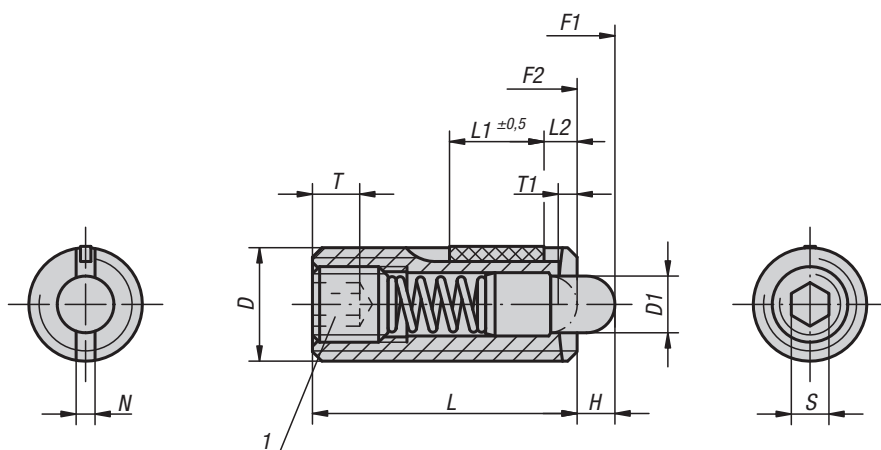
Order No.	D	D1	H	L	L1	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0326.03	M3	1,5	0,4	9	4	1,5	1,5	3	0,1	0,07
K0326.04	M4	2,5	0,8	10	5	2	4	10	0,18	0,12
K0326.05	M5	3	0,9	14	6	2,5	6	11	0,12	0,08
K0326.06	M6	3,5	1	15	7	3	9	13	0,44	0,21
K0326.08	M8	5	1,5	18	8	4	15	30	1,1	0,38
K0326.10	M10	6	2	23	9	5	20	35	1,3	0,6
K0326.12	M12	8	2,5	26	10	6	30	55	2	1,3
K0326.16	M16	10	3,5	33	14	8	65	125	3,9	3

KIPP Spring plungers with hexagon socket and ball, reinforced spring, LONG-LOK secured

Order No.	D	D1	H	L	L1	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0326.203	M3	1,5	0,4	9	4	1,5	5	7	0,1	0,07
K0326.204	M4	2,5	0,8	10	5	2	12	22	0,18	0,12
K0326.205	M5	3	0,9	14	6	2,5	19	30	0,12	0,08
K0326.206	M6	3,5	1	15	7	3	28	40	0,44	0,21
K0326.208	M8	5	1,5	18	8	4	47	73	1,1	0,38
K0326.210	M10	6	2	23	9	5	66	100	1,3	0,6
K0326.212	M12	8	2,5	26	10	6	66	120	2	1,3
K0326.216	M16	10	3,5	33	14	8	90	180	3,9	3

Spring plungers

with hexagon socket and thrust pin, LONG-LOK secured, steel



Material:

Sleeve steel grade 5.8.
Thrust pin steel.
Spring grade D steel wire.

LONG-LOK thread lock nylon.

Version:

Black oxidised.
Thrust pin hardened.

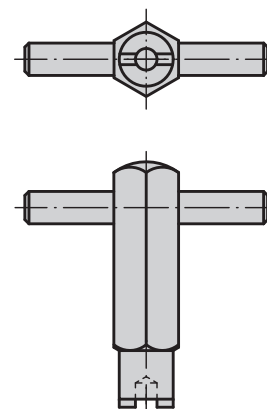
Sample order:

K0327.12

Drawing reference:

L2 = ca. two full threads

1) grub screw glued-in



Spring plungers

with hexagon socket and thrust pin, LONG-LOK secured, steel

KIPP Spring plungers with hexagon socket and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0327.05	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K0327.06	M6	2,7	2,5	20	7	2,5	1	1	2	7	20	0,45	0,22	K0317.906
K0327.08	M8	3,5	3	22	8	3	1,4	1,2	2,5	9	35	1,05	0,37	K0317.908
K0327.10	M10	4	3	22	9	3,5	1,4	1,6	3	9	35	1,3	0,6	K0317.910
K0327.12	M12	6	4	28	10	5	2	2	4	12	55	2	1,3	K0317.912
K0327.16	M16	7,5	5	32	14	6	2,5	2,5	5	45	100	3,9	3	K0317.916

KIPP Spring plungers with hexagon socket and thrust pin, light spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0327.105	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	3	10	0,12	0,08	K0317.905
K0327.106	M6	2,7	2,5	20	7	2,5	1	1	2	3	9	0,45	0,22	K0317.906
K0327.108	M8	3,5	3	22	8	3	1,4	1,2	2,5	4	16	1,05	0,37	K0317.908
K0327.110	M10	4	3	22	9	3,5	1,4	1,6	3	4	16	1,3	0,6	K0317.910
K0327.112	M12	6	4	28	10	5	2	2	4	5	27	2	1,3	K0317.912
K0327.116	M16	7,5	5	32	14	6	2,5	2,5	5	20	45	3,9	3	K0317.916

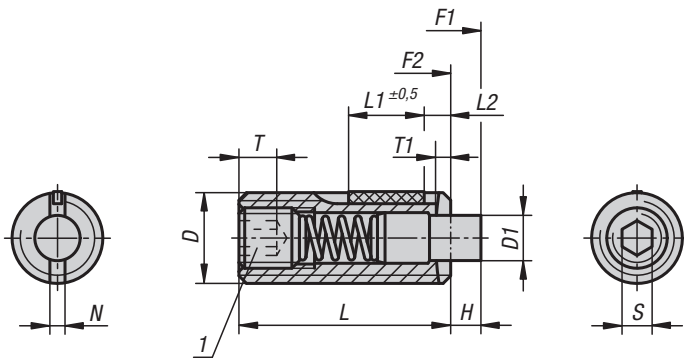
KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0327.205	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	11	29	0,12	0,08	K0317.905
K0327.206	M6	2,7	2,5	20	7	2,5	1	1	2	14	37	0,45	0,22	K0317.906
K0327.208	M8	3,5	3	22	8	3	1,4	1,2	2,5	22	65	1,05	0,37	K0317.908
K0327.210	M10	4	3	22	9	3,5	1,4	1,6	3	19	70	1,3	0,6	K0317.910
K0327.212	M12	6	4	28	10	5	2	2	4	25	85	2	1,3	K0317.912
K0327.216	M16	7,5	5	32	14	6	2,5	2,5	5	60	150	3,9	3	K0317.916



Spring plungers

with hexagon socket and flattened thrust pin, steel, LONG-LOK secured



Material:

Sleeve steel grade 5.8.
Thrust pin steel.
Spring grade D steel wire.

LONG-LOK thread lock nylon.

Version:

Black oxidised.
Thrust pin hardened.

Sample order:

K1371.16

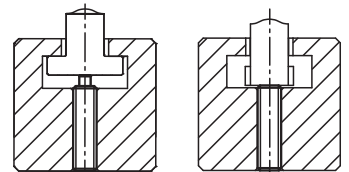
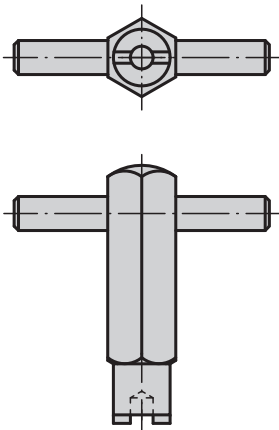
Note:

These spring plungers are chiefly used as ejectors and spring stops in machine construction. The thrust pin is actuated in the axial direction.

Drawing reference:

L2 = ca. two full threads

1) grub screw glued-in

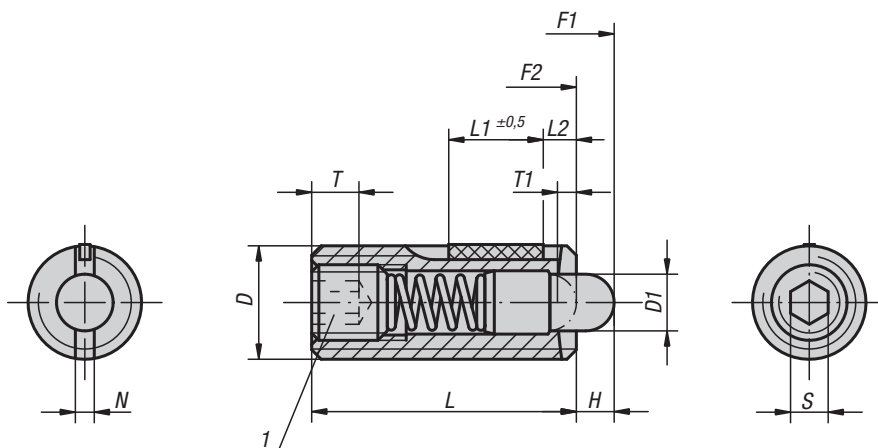


KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K1371.05	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K1371.06	M6	2,7	2,5	20	7	2,5	1	1	2	7	20	0,45	0,22	K0317.906
K1371.08	M8	3,5	3	22	8	3	1,4	1,2	2,5	9	35	1,05	0,37	K0317.908
K1371.10	M10	4	3	22	9	3,5	1,4	1,6	3	9	35	1,3	0,6	K0317.910
K1371.12	M12	6	4	28	10	5	2	2	4	12	55	2	1,3	K0317.912
K1371.16	M16	7,5	5	32	14	6	2,5	2,5	5	45	100	3,9	3	K0317.916

Spring plungers

with hexagon socket and POM thrust pin, LONG-LOK secured, steel



Material:

Sleeve steel grade 5.8.
Thrust pin POM.
Spring grade D steel wire.

LONG-LOK thread lock Nylon.

Version:

Black oxidised.

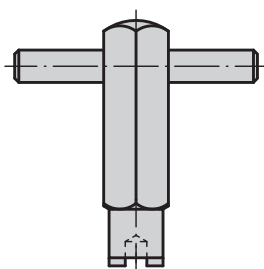
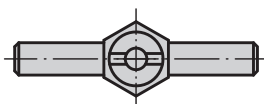
Sample order:

K0328.12

Drawing reference:

L2 = ca. two full threads

1) grub screw glued-in



KIPP Spring plungers with hexagon socket and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0328.05	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K0328.06	M6	2,7	2,5	20	7	2,5	1	1	2	7	20	0,45	0,22	K0317.906
K0328.08	M8	3,5	3	22	8	3	1,4	1,2	2,5	9	35	1,05	0,37	K0317.908
K0328.10	M10	4	3	22	9	3,5	1,4	1,6	3	9	35	1,3	0,6	K0317.910
K0328.12	M12	6	4	28	10	5	2	2	4	12	55	2	1,3	K0317.912
K0328.16	M16	7,5	5	32	14	6	2,5	2,5	5	45	100	3,9	3	K0317.916

KIPP Spring plungers with hexagon socket and thrust pin, light spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0328.105	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	3	10	0,12	0,08	K0317.905
K0328.106	M6	2,7	2,5	20	7	2,5	1	1	2	3	9	0,45	0,22	K0317.906
K0328.108	M8	3,5	3	22	8	3	1,4	1,2	2,5	4	16	1,05	0,37	K0317.908
K0328.110	M10	4	3	22	9	3,5	1,4	1,6	3	4	16	1,3	0,6	K0317.910
K0328.112	M12	6	4	28	10	5	2	2	4	5	27	2	1,3	K0317.912
K0328.116	M16	7,5	5	32	14	6	2,5	2,5	5	20	45	3,9	3	K0317.916



Spring plungers

with hexagon socket and flattened POM thrust pin, steel, LONG-LOK secured



Material:

Sleeve steel grade 5.8.
Thrust pin POM.
Spring grade D steel wire.

LONG-LOK thread lock Nylon.

Version:

Black oxidised.

Sample order:

K1373.16

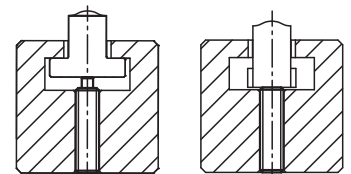
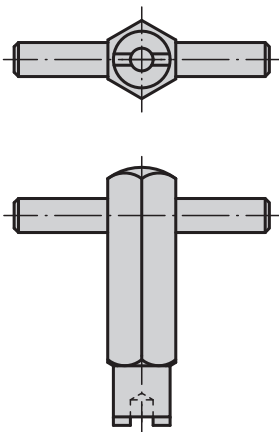
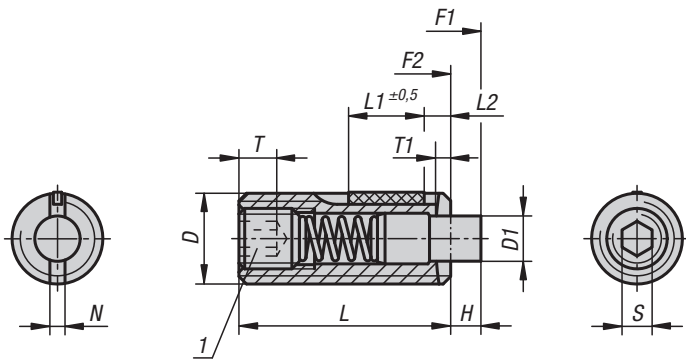
Note:

These spring plungers are chiefly used as ejectors and spring stops in machine construction. The thrust pin is actuated in the axial direction.

Drawing reference:

L2 = ca. two full threads

1) grub screw glued-in



KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K1373.05	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K1373.06	M6	2,7	2,5	20	7	2,5	1	1	2	7	20	0,45	0,22	K0317.906
K1373.08	M8	3,5	3	22	8	3	1,4	1,2	2,5	9	35	1,05	0,37	K0317.908
K1373.10	M10	4	3	22	9	3,5	1,4	1,6	3	9	35	1,3	0,6	K0317.910
K1373.12	M12	6	4	28	10	5	2	2	4	12	55	2	1,3	K0317.912
K1373.16	M16	7,5	5	32	14	6	2,5	2,5	5	45	100	3,9	3	K0317.916

Spring plungers

with hexagon socket and thrust pin, LONG-LOK secured, stainless steel



Material:

Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

LONG-LOK thread lock Nylon.

Version:

Bright.
Thrust pin hardened.

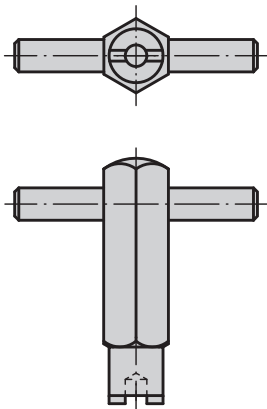
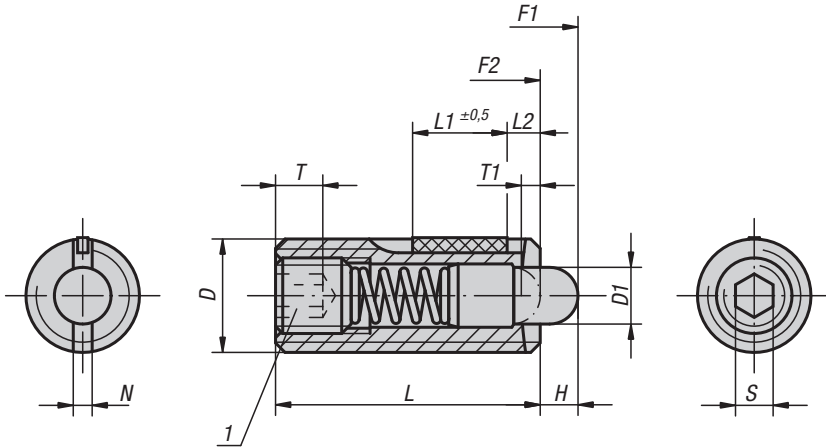
Sample order:

K0329.12

Drawing reference:

L2 = ca. two full threads

1) grub screw glued-in



KIPP Spring plungers with hexagon socket and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0329.05	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	5	17	0,12	0,08	K0317.905
K0329.06	M6	2,7	2,5	20	7	2,5	1	1	2	6	17	0,45	0,22	K0317.906
K0329.08	M8	3,5	3	22	8	3	1,4	1,2	2,5	7	29	1,05	0,37	K0317.908
K0329.10	M10	4	3	22	9	3,5	1,4	1,6	3	8	31	1,3	0,6	K0317.910
K0329.12	M12	6	4	28	10	5	2	2	4	10	47	2	1,3	K0317.912
K0329.16	M16	7,5	5	32	14	6	2,5	2,5	5	38	85	3,9	3	K0317.916

KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0329.205	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	9	26	0,12	0,08	K0317.905
K0329.206	M6	2,7	2,5	20	7	2,5	1	1	2	11	35	0,45	0,22	K0317.906
K0329.208	M8	3,5	3	22	8	3	1,4	1,2	2,5	15	48	1,05	0,37	K0317.908
K0329.210	M10	4	3	22	9	3,5	1,4	1,6	3	15	58	1,3	0,6	K0317.910
K0329.212	M12	6	4	28	10	5	2	2	4	19	74	2	1,3	K0317.912



Spring plungers

with hexagon socket and flattened thrust pin, stainless steel, LONG-LOK secured



Material:

Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

LONG-LOK thread lock Nylon.

Version:

Bright.
Thrust pin hardened.

Sample order:

K1380.16

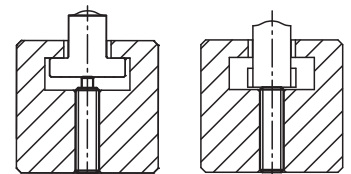
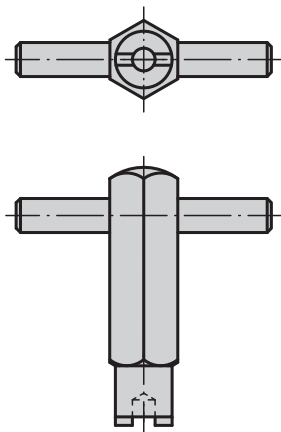
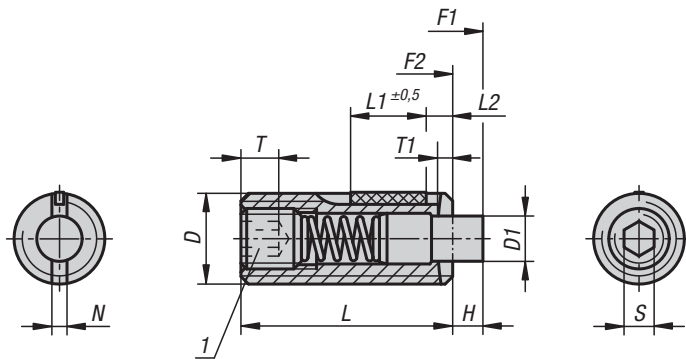
Note:

These spring plungers are chiefly used as ejectors and spring stops in machine construction. The thrust pin is actuated in the axial direction.

Drawing reference:

L2 = ca. two full threads

1) grub screw glued-in



KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K1380.05	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	5	17	0,12	0,08	K0317.905
K1380.06	M6	2,7	2,5	20	7	2,5	1	1	2	6	17	0,45	0,22	K0317.906
K1380.08	M8	3,5	3	22	8	3	1,4	1,2	2,5	7	29	1,05	0,37	K0317.908
K1380.10	M10	4	3	22	9	3,5	1,4	1,6	3	8	31	1,3	0,6	K0317.910
K1380.12	M12	6	4	28	10	5	2	2	4	10	47	2	1,3	K0317.912
K1380.16	M16	7,5	5	32	14	6	2,5	2,5	5	38	85	3,9	3	K0317.916

Spring plungers

with hexagon socket and POM thrust pin, LONG-LOK secured, stainless steel



Material:
Sleeve 1.4305.
Thrust pin POM.
Spring 1.4310 wire

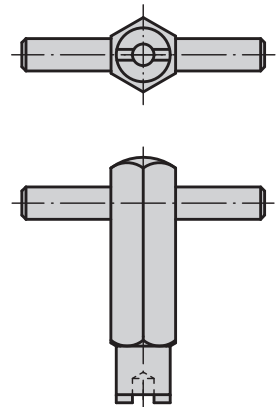
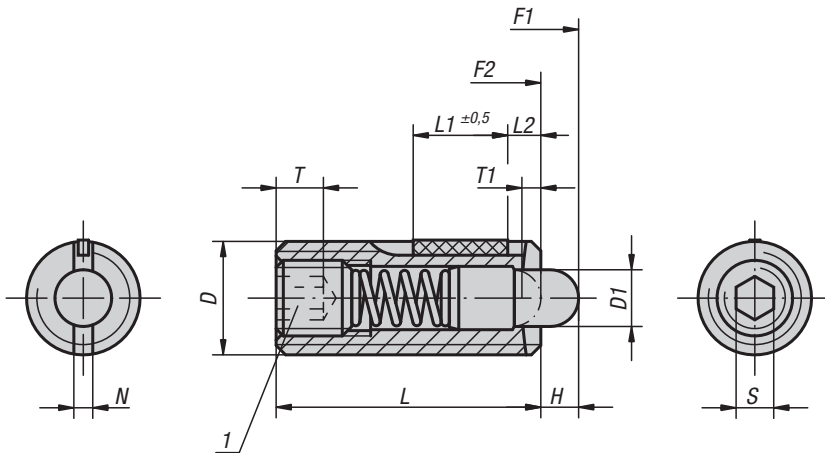
LONG-LOK thread lock Nylon.

Version:
Bright.

Sample order:
K0330.12

Drawing reference:
L2 = ca. two full threads

1) grub screw glued-in

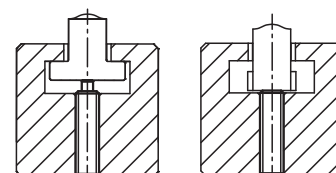
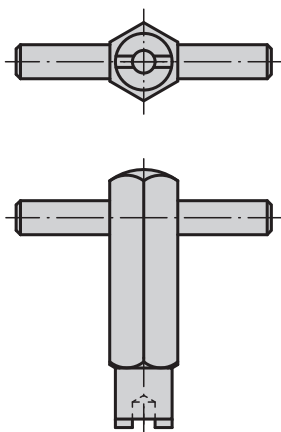
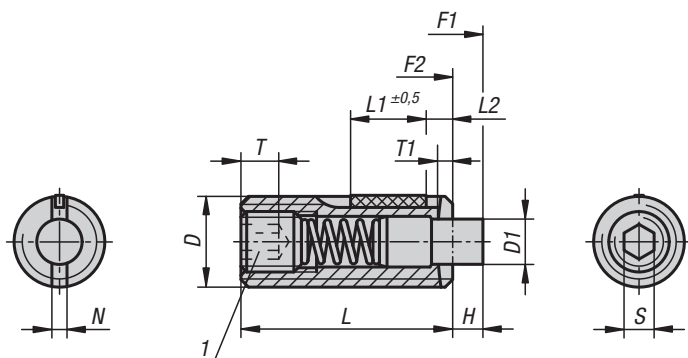


KIPP Spring plungers with hexagon socket and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0330.05	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	5	17	0,12	0,08	K0317.905
K0330.06	M6	2,7	2,5	20	7	2,5	1	1	2	6	17	0,45	0,22	K0317.906
K0330.08	M8	3,5	3	22	8	3	1,4	1,2	2,5	7	29	1,05	0,37	K0317.908
K0330.10	M10	4	3	22	9	3,5	1,4	1,6	3	8	31	1,3	0,6	K0317.910
K0330.12	M12	6	4	28	10	5	2	2	4	10	47	2	1,3	K0317.912
K0330.16	M16	7,5	5	32	14	6	2,5	2,5	5	38	85	3,9	3	K0317.916

Spring plungers

with hexagon socket and flattened POM thrust pin, stainless steel, LONG-LOK secured



Material:

Sleeve 1.4305.
Thrust pin POM.
Spring 1.4310 wire

LONG-LOK thread lock Nylon.

Version:

Bright.

Sample order:

K1382.16

Note:

These spring plungers are chiefly used as ejectors and spring stops in machine construction. The thrust pin is actuated in the axial direction.

Drawing reference:

L2 = ca. two full threads

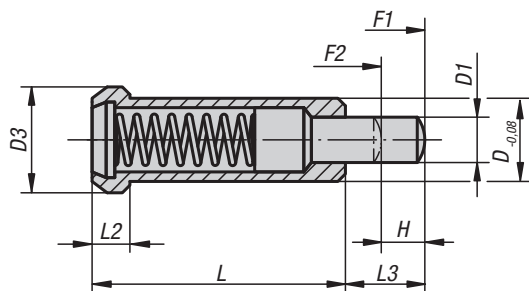
1) grub screw glued-in

KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K1382.05	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	5	17	0,12	0,08	K0317.905
K1382.06	M6	2,7	2,5	20	7	2,5	1	1	2	6	17	0,45	0,22	K0317.906
K1382.08	M8	3,5	3	22	8	3	1,4	1,2	2,5	7	29	1,05	0,37	K0317.908
K1382.10	M10	4	3	22	9	3,5	1,4	1,6	3	8	31	1,3	0,6	K0317.910
K1382.12	M12	6	4	28	10	5	2	2	4	10	47	2	1,3	K0317.912
K1382.16	M16	7,5	5	32	14	6	2,5	2,5	5	38	85	3,9	3	K0317.916

Spring plungers

with head



Material:

Steel.

Version:

Black oxidised.

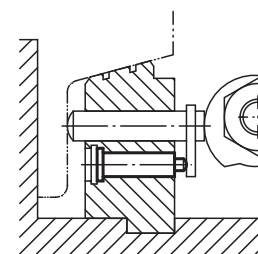
Thrust pin hardened.

Sample order:

K0331.10

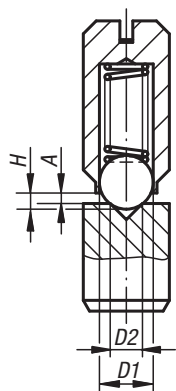
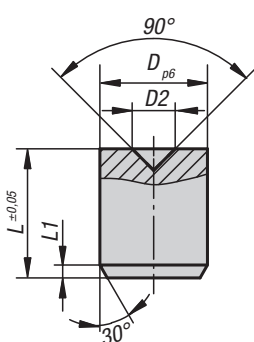
Note:

These spring plungers are chiefly used as ejectors and spring stops in machine construction.



KIPP Spring plungers with head

Order No.	D	D1	D3	H	L	L2	L3	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0331.06	6	2,95	8	3,5	20	3,2	6	10	22
K0331.08	8	3,95	10	4,5	24	3,2	8	30	90
K0331.10	10	5,95	13	5,5	30	4	10	42	110
K0331.12	12	7,95	16	6,5	36	5	12	50	130



Material:
Steel.

Version:
Bright, hardened.

Sample order:
K0332.05020

Note:
If abrasion-resistant and exact locking is necessary, locators can be used together with spring plungers, especially with strong spring force.

$$A = H - \left(\frac{D1 + D2}{2} - \frac{\sqrt{2}}{2} \times D1 \right)$$

KIPP Locators

Order No.	Suitable for spring plungers with ØD	D	D1	D2	H	L	L1
K0332.04015	- / M4	4	see relevant products for dimensions	1,5	see relevant products for dimensions	5	0,5
K0332.05020	Ø4 / M5	5	see relevant products for dimensions	2	see relevant products for dimensions	6	0,5
K0332.06020	Ø5 / M6	6	see relevant products for dimensions	2	see relevant products for dimensions	8	0,7
K0332.08030	Ø6 / M8	8	see relevant products for dimensions	3	see relevant products for dimensions	10	1
K0332.10040	Ø8 / M10	10	see relevant products for dimensions	4	see relevant products for dimensions	12	1,2
K0332.12060	Ø10 / M12	12	see relevant products for dimensions	6	see relevant products for dimensions	14	1,5
K0332.16080	Ø12 / M16	16	see relevant products for dimensions	8	see relevant products for dimensions	18	2

Spring plungers

smooth version, stainless steel



Material:

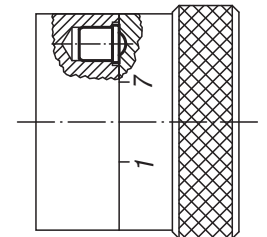
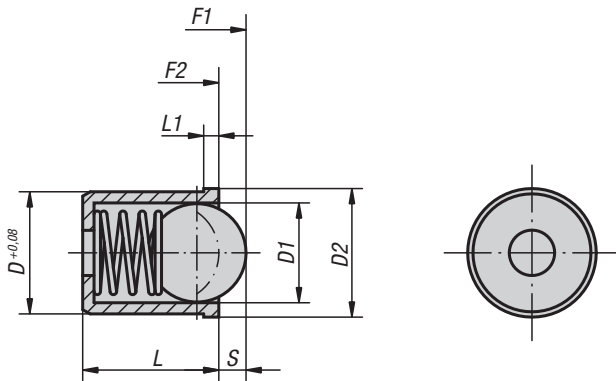
Sleeve and spring stainless steel.
Ball stainless steel or POM.

Version:

Sleeve bright.
Steel ball hardened and bright.

Sample order:

K0333.05

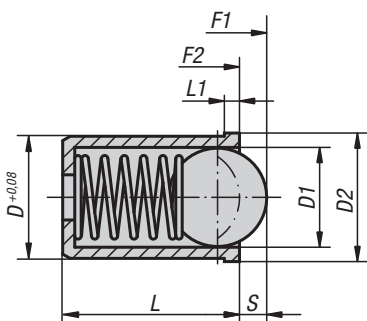


KIPP Spring plungers smooth version, stainless steel

Order No.	Component material	D	D1	D2	L	L1	Travel S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0333.02	stainless steel	2	1,5	2,5	3	0,6	0,4	1,2	2,5
K0333.03	stainless steel	3	2,5	3,5	4	0,8	0,65	1,7	3,4
K0333.04	stainless steel	4	3	4,6	5	1	0,8	3	7
K0333.05	stainless steel	5	4	5,6	6	1	1	4	7
K0333.06	stainless steel	6	5	6,5	7	1	1,5	6	12
K0333.08	stainless steel	8	6,5	8,5	9	1	1,8	6	12
K0333.10	stainless steel	10	8	12	13,5	2,5	2,7	10	20
K0333.12	stainless steel	12	10	14	16	2,5	3,5	15	25
K0333.304	POM	4	3	4,6	5	1	0,6	3	7
K0333.305	POM	5	4	5,6	6	1	0,8	4	7
K0333.306	POM	6	5	6,5	7	1	1,3	6	12
K0333.308	POM	8	6,5	8,5	9	1	1,6	6	12
K0333.310	POM	10	8	12	13,5	2,5	2,6	10	20
K0333.312	POM	12	10	14	16	2,5	3,3	15	25

Spring plungers

smooth version, extended, stainless steel



Material:

Sleeve and spring stainless steel.
Ball stainless steel or POM.

Version:

Sleeve bright.
Steel ball hardened and bright.

Sample order:

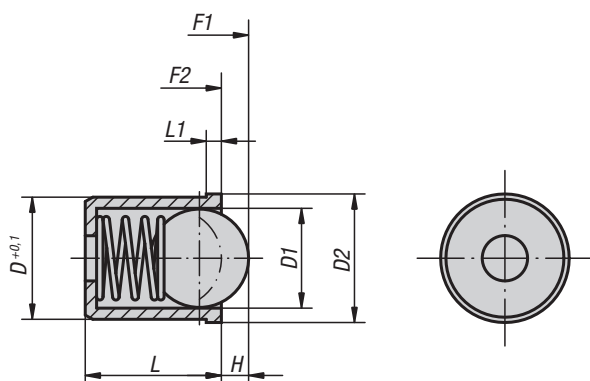
K0333.104

KIPP Spring plungers smooth version, extended, stainless steel

Order No.	Component material	D	D1	D2	L	L1	Travel S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0333.104	stainless steel	4	3	4,6	9	1	0,8	12	22
K0333.105	stainless steel	5	4	5,6	12	1	1	19	30
K0333.106	stainless steel	6	5	6,5	14	1	1,5	22	40
K0333.108	stainless steel	8	6	8,5	16	1	1,8	42	73
K0333.110	stainless steel	10	8	12	22	2,5	2,7	54	100
K0333.112	stainless steel	12	10	14	24	2,5	3,5	54	122
K0333.404	POM	4	3	4,6	9	1	0,6	12	22
K0333.405	POM	5	4	5,6	12	1	0,8	19	30
K0333.406	POM	6	5	6,5	14	1	1,3	22	40
K0333.408	POM	8	6	8,5	16	1	1,6	42	73
K0333.410	POM	10	8	12	22	2,5	2,6	54	100
K0333.412	POM	12	10	14	24	2,5	3,3	54	122

Spring plungers

smooth version, plastic



Material:

Sleeve thermoplastic.
Spring stainless steel.
Ball stainless steel or POM.

Version:

Sleeve black.
Ball hardened, bright.

Sample order:

K0334.05

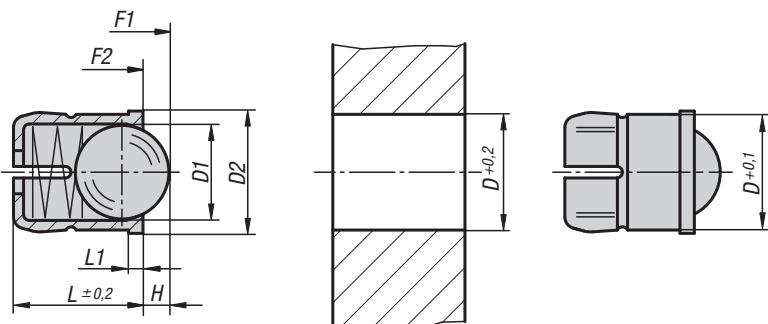


KIPP Spring plungers smooth version, plastic

Order No.	Component material	D	D1	D2	H	L	L1	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0334.04	stainless steel	4	3	4,6	0,7	5	1	3	7
K0334.05	stainless steel	5	4	5,6	1	6	1	4	7
K0334.06	stainless steel	6	5	6,5	1,5	7	1	6	12
K0334.08	stainless steel	8	6,5	8,5	1,8	9	1	6	12
K0334.10	stainless steel	10	8	12	2,7	13,5	2,5	10	20
K0334.12	stainless steel	12	10	14	3,5	16	2,5	15	25
K0334.204	POM	4	3	4,6	0,7	5	1	3	7
K0334.205	POM	5	4	5,6	1	6	1	4	7
K0334.206	POM	6	5	6,5	1,5	7	1	6	12
K0334.208	POM	8	6,5	8,5	1,8	9	1	6	12
K0334.210	POM	10	8	12	2,7	13,5	2,5	10	20
K0334.212	POM	12	10	14	3,5	16	2,5	15	25

Spring plungers

smooth version, self-clamping, plastic


Material:

Sleeve thermoplastic.
Spring stainless steel.
Ball stainless steel or POM.

Version:

Sleeve black.
Ball hardened, bright.

Sample order:

K1171.04

Note:

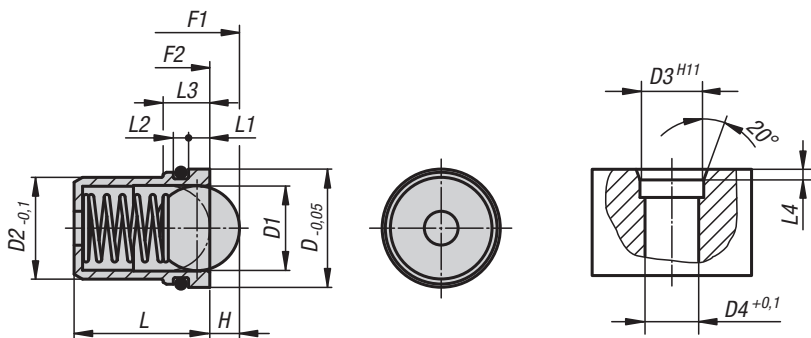
The self-locking function of the spring plunger enables simple assembly and secure overhead installation.

KIPP Spring plungers, smooth version, self-locking, plastic

Order No.	Component material	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1171.04	stainless steel	4	3	4,6	5	1	0,8	3	6,5
K1171.05	stainless steel	5	4	5,6	6	1	1	6	9,4
K1171.06	stainless steel	6	5	6,5	7	1	1,6	6,2	12,6
K1171.08	stainless steel	8	6,5	8,5	9	1	1,9	10	20,4
K1171.10	stainless steel	10	8	11	13,5	1,5	2,4	11,9	22,3
K1171.204	POM	4	3	4,6	5	1	0,8	3	6,5
K1171.205	POM	5	4	5,6	6	1	1	6	9,4
K1171.206	POM	6	5	6,5	7	1	1,6	6,2	12,6
K1171.208	POM	8	6,5	8,5	9	1	1,9	10	20,4
K1171.210	POM	10	8	11	13,5	1,5	2,4	11,9	22,3

Spring plungers

with detent ring



Material:

Sleeve, spring and ball stainless steel.
O-ring NBR.

Version:

Sleeve bright.
Ball hardened, bright.
O-ring black.

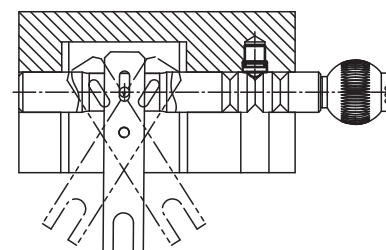
Sample order:

K0582.05

Note:

These spring plungers with O-ring are suitable for overhead installation or for installing in difficult to access positions.

They can be pressed into the location hole by hand or using simple assembly tools. The O-ring holds the plunger in place and prevents it falling out. Other components can be easily installed without the need for further assembly aids.

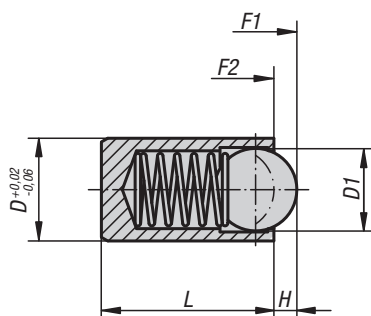


KIPP Spring plungers with detent ring

Order No.	D	D1	D2	D3	D4	H	L	L1	L2	L3	L4	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0582.05	4,95	3	4	5	4,1	0,8	5	1	0,7	2,3	0,7	3	7
K0582.06	5,95	4	5	6	5,1	1	6	1	0,7	2,3	0,7	4	7
K0582.08	7,95	5	6	8	6,1	1,5	7	1,5	1,2	3,7	1	6	12
K0582.10	9,95	6,5	8	10	8,1	1,8	9	2	1,2	4,2	1,5	6	12
K0582.12	11,95	8	10	12	10,1	2,7	13,5	2,5	1,8	5,3	2	10	20
K0582.14	13,95	10	12	14	12,1	3,5	16	2,5	1,8	5,5	2	15	25

Spring plungers

smooth version without collar, stainless steel



Material:

Sleeve and spring stainless steel.
Ball stainless steel or POM.

Version:

Ball hardened, bright.

Sample order:

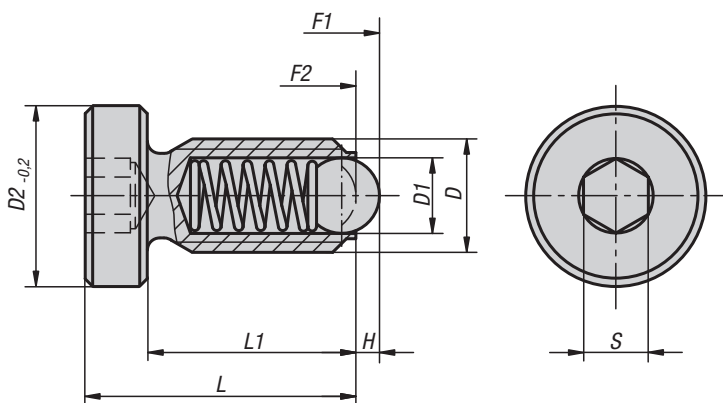
K0335.208

KIPP Spring plungers smooth version, without collar, stainless steel

Order No.	Component material	D	D1	H	L	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0335.203	stainless steel	3	2	0,65	7	5	7
K0335.204	stainless steel	4	3	0,8	9	12	22
K0335.205	stainless steel	5	4	1	12	19	30
K0335.206	stainless steel	6	5	1,5	14	22	40
K0335.208	stainless steel	8	6	1,8	16	42	73
K0335.210	stainless steel	10	8	2,7	22	54	100
K0335.212	stainless steel	12	10	3,2	24	54	122
K0335.304	POM	4	3	0,6	9	12	22
K0335.305	POM	5	4	0,9	12	19	30
K0335.306	POM	6	5	1,3	14	22	40
K0335.308	POM	8	6	1,7	16	42	73
K0335.310	POM	10	8	2,6	22	54	100
K0335.312	POM	12	10	3,1	24	54	122

Spring plungers

with head



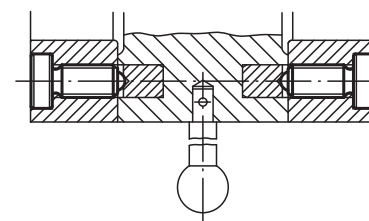
Material:
Steel or stainless steel.

Version:
Steel black oxidised.
Stainless steel bright.
Ball steel or stainless steel, hardened, bright.

Sample order:
K0336.10

KIPP Spring plungers with head

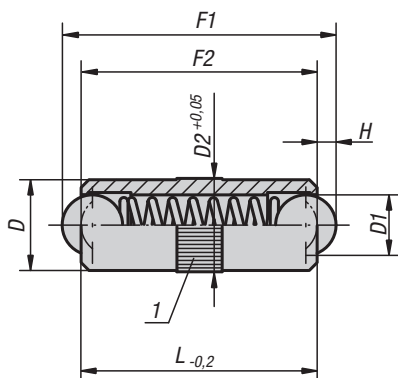
Order No. steel	Order No. stainless steel	D	D1	D2	H	L	L1	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0336.04	K0336.041	M4	2,5	7	0,8	13	10	2	4	10
K0336.05	K0336.051	M5	3	8,5	0,9	17	13	2,5	6	11
K0336.06	K0336.061	M6	3,5	10	1	16	12	3	9	13
K0336.08	K0336.081	M8	5	13	1,5	21	16	4	15	30
K0336.10	K0336.101	M10	6	16	2	26	20	5	20	35
K0336.12	K0336.121	M12	8	18	2,5	32	25	6	30	55



K0337

Spring plungers

smooth version, double-sided



Material:
Sleeve brass.
Ball and spring stainless steel.

Version:
Balls hardened, bright.

Sample order:
K0337.05

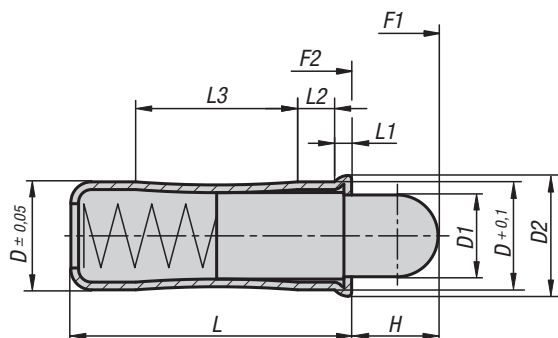
KIPP Spring plungers smooth version, double-sided

Order No.	D	D1	D2	L	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0337.025	2,5	2	2,55	6	0,65	1,5	2,8
K0337.03	3	2,5	3,05	8	0,8	2,5	6
K0337.04	4	3	4,05	10	0,9	3	7
K0337.05	5	4	5,05	12	1,2	4	8
K0337.06	6	5	6,05	16	1,6	6	10
K0337.08	8	6	8,05	20	2	8	12
K0337.10	10	8	10,05	24	2,9	10	16

Drawing reference:
1) knurl

Spring plungers

smooth version



Material:

Sleeve and spring stainless steel.
Pin stainless steel or POM.

Version:

Pins, white POM, temperature-resistant to +50°C.

Sample order:

K1172.08

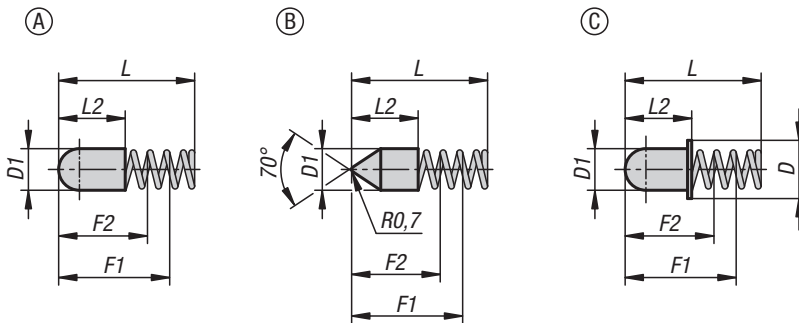
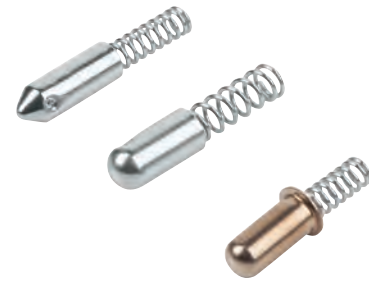
Note:

Smooth version to press-in.

A H7 tolerance is recommended for the receiving hole with diameter D.

KIPP Spring plungers, smooth version

Order No.	Component material	D	D1	D2	L	L1	L2	L3	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1172.04	stainless steel	4	2,8	4,6	10,7	0,9	1,8	5,6	2,7	3	8,2
K1172.05	stainless steel	5	3,8	5,6	12	0,9	2,1	6	4	3,3	9
K1172.06	stainless steel	6	4,8	6,5	15	1	2,3	8,2	5,5	6,1	12
K1172.08	stainless steel	8	6,2	8,5	18	1,1	2,9	9,5	6,5	10,7	17
K1172.10	stainless steel	10	8	11	26	1,5	4,2	14,3	8	16,2	29
K1172.204	POM	4	2,8	4,6	10,7	0,9	1,8	5,6	2,7	3	8,2
K1172.205	POM	5	3,8	5,6	12	0,9	2,1	6	4	3,3	9
K1172.206	POM	6	4,8	6,5	15	1	2,3	8,2	5,5	6,1	12
K1172.208	POM	8	6,2	8,5	18	1,1	2,9	9,5	6,5	10,7	17
K1172.210	POM	10	8	11	26	1,5	4,2	14,3	8	16,2	29



Material:

Sleeve, steel or 1.4303 stainless steel.
Spring, 1.4310 stainless steel wire.

Version:

Sleeve, steel nickel-plated, stainless steel bright.
Spring, bright.

Sample order:

K1277.112216

Note:

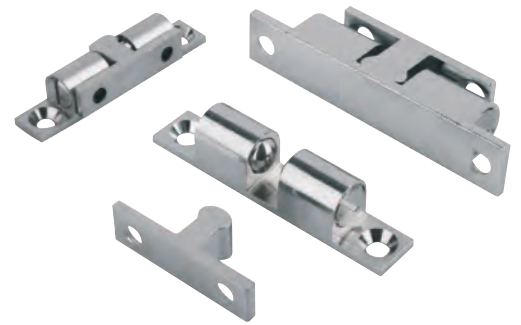
Spring sleeves are mainly used as indexing and positioning elements.

KIPP Spring sleeves

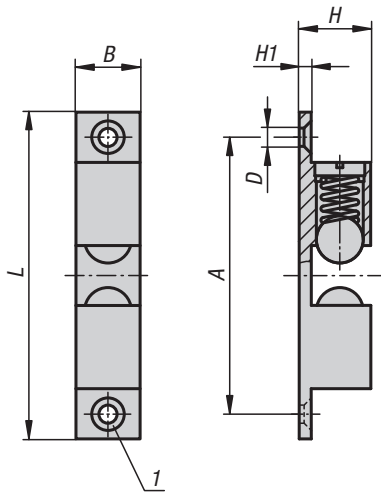
Order No.	Main material	Form	D	D1	L	L2	L by F1	L by F2	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Spring stiffness N/mm
K1277.112216	steel	A	-	2,2	16	7,8	12	10,5	2,2	3	0,53
K1277.112608	steel	A	-	2,6	8	3,8	6,5	5,2	1,1	2	0,7
K1277.113012	steel	A	-	3	12	6	9	8,7	6,2	6,8	2
K1277.113016	steel	A	-	3	16	8,5	13	10,7	4,8	8,4	1,6
K1277.113412	steel	A	-	3,4	12	6	9	7,8	5	7	1,69
K1277.113415	steel	A	-	3,4	15	7,3	12	8,2	5,9	13,3	1,95
K1277.114014	steel	A	-	4	14	8	12	9	5	12,3	2,45
K1277.115016	steel	A	-	5	16	8	13	10,4	8	15	2,7
K1277.123016	stainless steel	A	-	3	16	8	13	10,6	4,8	8,6	1,6
K1277.213011	steel	B	-	3	11	5	9	6,7	1,6	3,4	0,78
K1277.213016	steel	B	-	3	16	8,5	13	10,7	4,8	8,4	1,6
K1277.323013	stainless steel	C	4,1	3	13	7	10	8,9	5,3	7,2	1,75



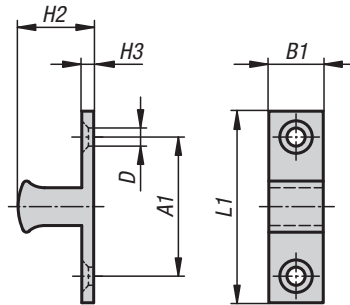
Double ball catches



housing



latch bracket



Material, version:

Housing and latch chrome plated brass.
Balls and springs stainless steel.

Sample order:

K0583.50

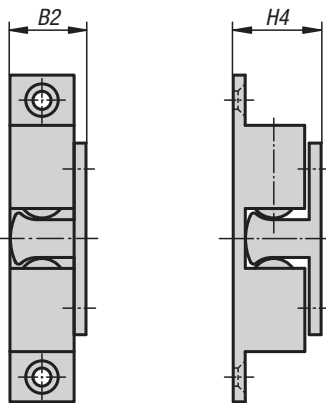
Note:

Quick catch for various applications such as holding doors, hatches, screens etc. closed. The double ball catch consists of a housing and a latch bracket that engages between the two balls. The latch bracket can engage from the front or the side. The engagement pressure is adjustable.

Drawing reference:

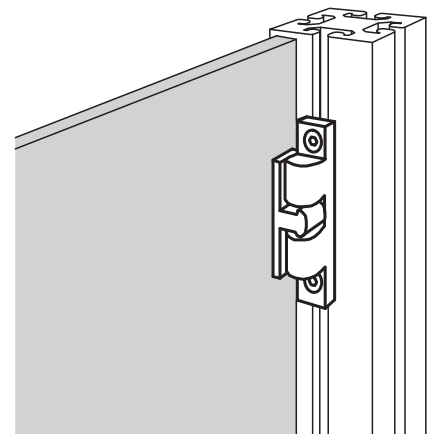
1) counterbore DIN 74-A

catch



from side

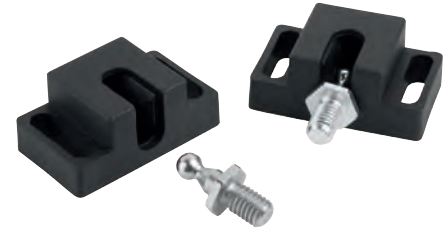
from front



KIPP Double ball catches

Order No.	A	A1	B	B1	B2	D	H	H1	H2	H3	H4	L	L1	Clamping force ca. N
K0583.50	39,8	19,8	8,8	7,6	10,8	3,8	10,6	2	11,2	2	13,2	49	28,8	35±5
K0583.60	50	23,5	11	9	13,5	4,8	13,2	2,4	13,5	2,2	15,5	60	35	30±7
K0583.70	58	30	13	12	15,2	4,8	15	2,4	15,7	2,2	18,1	68,4	40,2	25±5

Ball catch

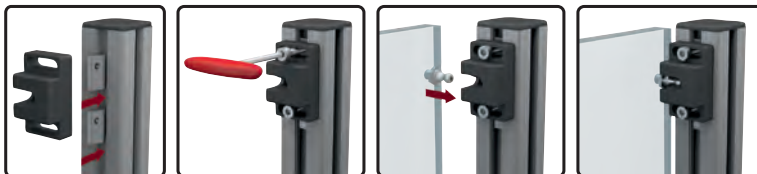
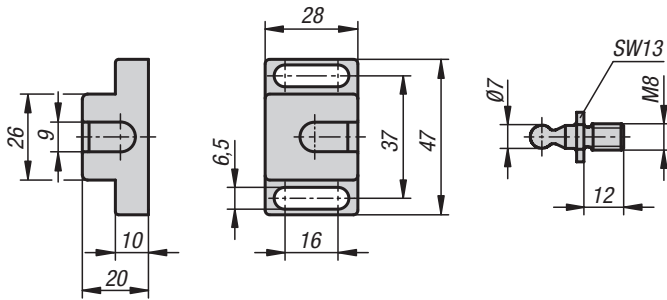


Material:
Fibreglass reinforced polyamide.
Ball pins, steel or stainless steel 1.4301.

Version:
black.

Sample order:
K1294.400

Note:
Quick lock for swing and sliding doors. The elongated holes enable flexible positioning on aluminium profiles and panel elements.

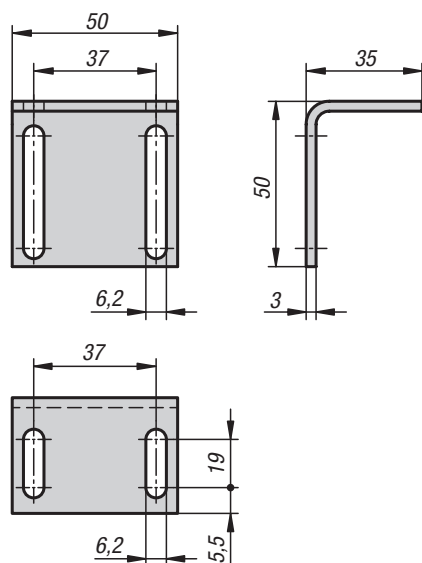


KIPP Ball catch

Order No.	Component material	Retaining force F1 N
K1294.400	steel	40
K1294.401	stainless steel	40
K1294.500	steel	50
K1294.501	stainless steel	50

Angle brackets

for ball catch



Material:

Steel.

Version:

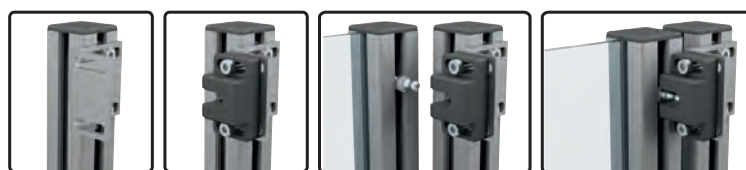
Electro zinc-plated.

Sample order:

K1294.9503550

Note:

These angle brackets enable the ball catch to be flexibly positioned.

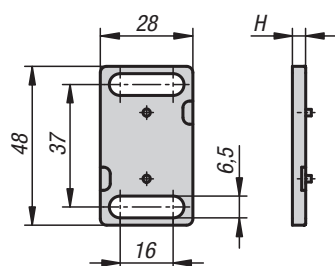


KIPP Angle brackets for ball catch

Order No.	Dimensions
K1294.9503550	see drawing

Riser plates

for ball catch



Material:

Polyamide fibreglass reinforced.

Version:

black.

Sample order:

K1294.94

Note:

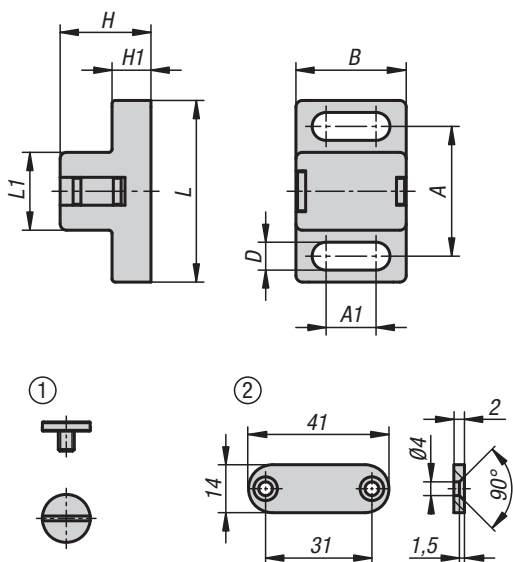
These riser plates enable the height of the ball catch to be increased.



KIPP Riser plates for ball catch

Order No.	H
K1294.94	4

Magnetic catches



Material:

Polyamide fibreglass reinforced
DIN 921 pan head screw, steel.
Retaining plate, steel.

Version:

Black.
Pan head screw and retaining plate electro zinc-plated.

Sample order:

K1295.17281

Note:

Magnetic catch for swing and sliding doors. The elongated holes enable flexible positioning on aluminium profiles and panel elements.

Drawing reference:

- 1) Pan head screw
- 2) Retaining plate



KIPP Magnetic catches

Order No.	A	A1	B	D	H	H1	L	L1	Retaining force F1 N	Retaining force F2 N	Counterpart
K1295.17281	20	7,7	17	4,3	14	6	28	12	5	3	M4x5 pan head screw
K1295.28401	30	13,5	28	6,3	20	10	40	19	20	10	M5x6 pan head screw
K1295.28402	30	13,5	28	6,3	20	10	40	19	20	10	M5x6 pan head screw and 14x41x2 retaining plate

Angle bracket for magnetic lock

**Material:**

Steel.

Version:

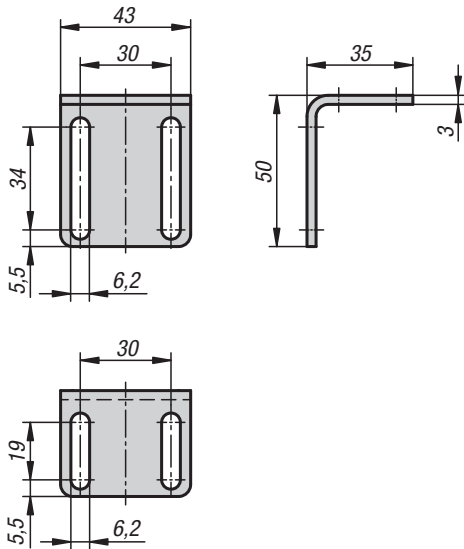
Electro zinc-plated.

Sample order:

K1295.9503543

Note:

These angle brackets enable the magnetic catch to be flexibly positioned.



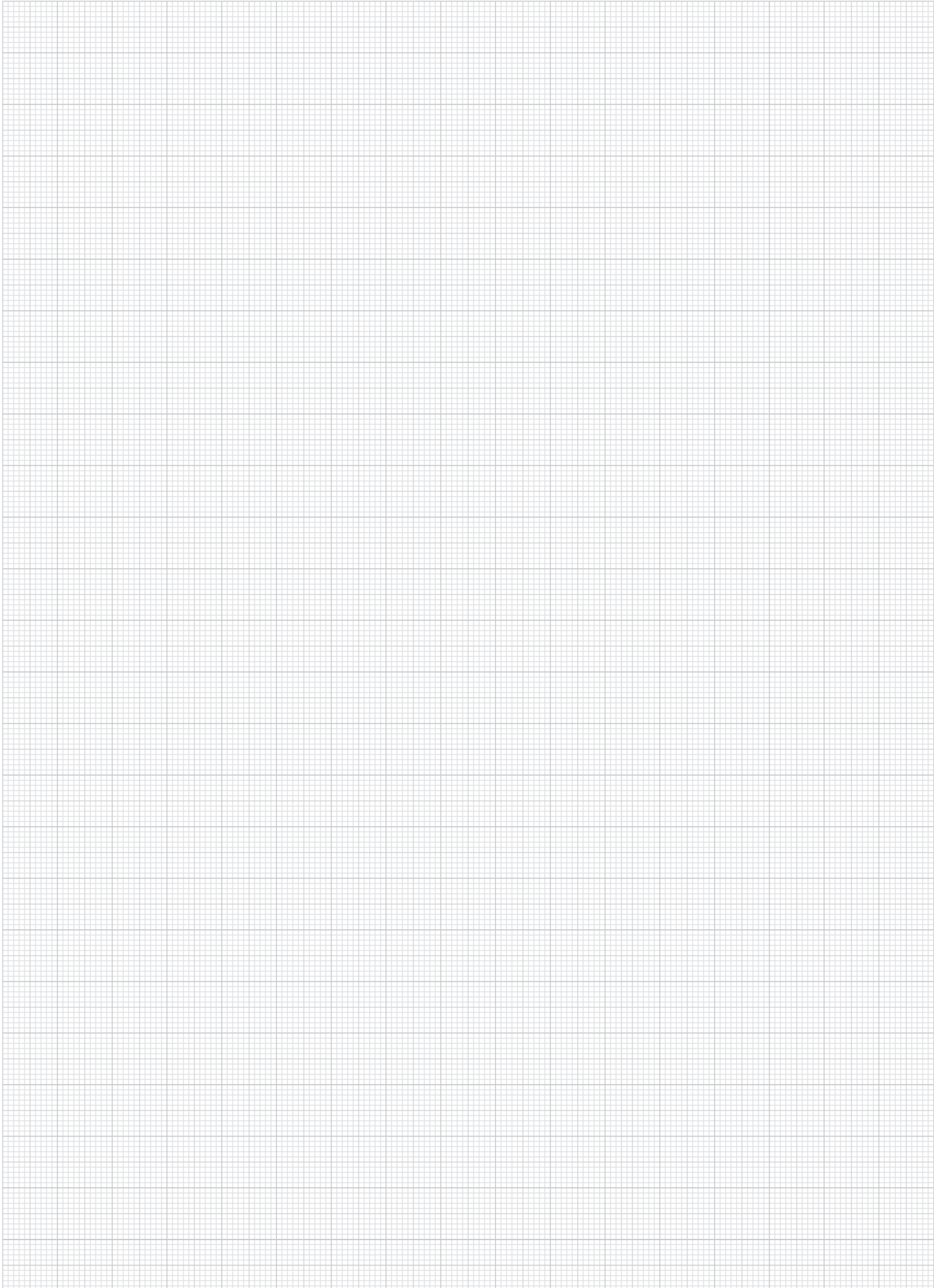
KIPP Angle bracket for magnetic lock

Order No.

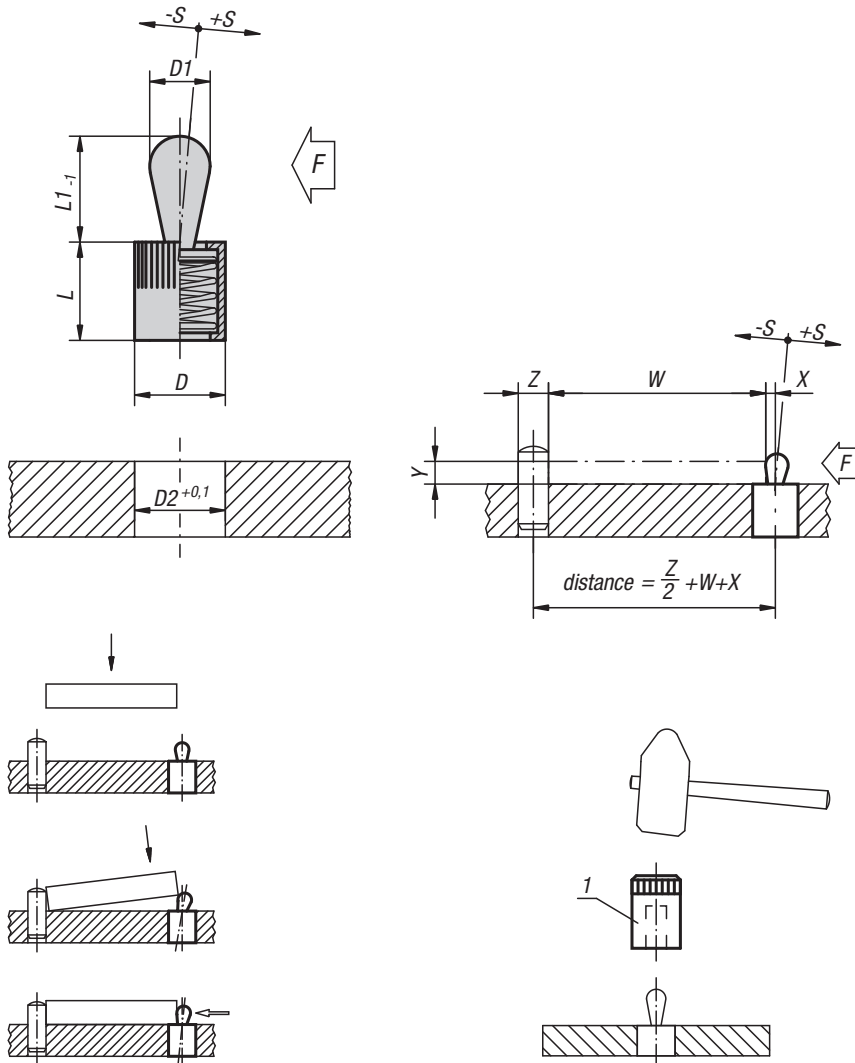
Dimensions

K1295.9503543

see drawing



Lateral spring plungers



Material:
Sleeve aluminium.
Spring steel.
Thrust pin steel or POM.

Version:
Steel thrust pin hardened and electro zinc-plated.
Sleeve blue electro zinc-plated.

Sample order:
K0368.72064

Note:
Lateral spring plungers are for positioning, clamping, holding and securing workpieces and parts for engraving, labelling, drilling, reaming, tapping, honing, grinding, welding, soldering, assembling, mounting etc. Suitable eccentric adjustment bush see K0369. W and Z are customer specified.

Drawing reference:
1) assembly tool

KIPP Lateral spring plungers without seal, thrust pin and spring steel

Order No.	D	D1	L	L1	D2	±S	F ca.N	X if Y = 1	X if Y = 2	X if Y = 3	X if Y = 4.5	X if Y = 6	X if Y = 8	Order No. assembly tool
K0368.21034	6	3	7	4	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.21036	6	3	7	4	6	0,5	20	0,8	1	1	1	1	1	K0369.03
K0368.21038	6	3	7	4	6	0,5	40	0,8	1	1	1	1	1	K0369.03
K0368.21054	10	5	11	6,7	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.21056	10	5	11	6,7	10	0,8	50	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.21058	10	5	11	6,7	10	0,8	100	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.21064	10	6	11	10,7	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.21066	10	6	11	10,7	10	1	75	-	-	-	1,7	1,9	1,9	K0369.05
K0368.21068	10	6	11	10,7	10	1	100	-	-	-	1,7	1,9	1,9	K0369.05
K0368.21084	12	8	13	13,9	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.21086	12	8	13	13,9	12	1,3	100	-	-	-	-	2,5	2,7	K0369.08
K0368.21088	12	8	13	13,9	12	1,3	150	-	-	-	-	2,5	2,7	K0369.08
K0368.21104	16	10	17	16,7	16	1,6	100	-	-	-	-	-	3,1	K0369.10
K0368.21106	16	10	17	16,7	16	1,6	150	-	-	-	-	-	3,1	K0369.10
K0368.21108	16	10	17	16,7	16	1,6	200	-	-	-	-	-	3,1	K0369.10

KIPP Lateral spring plungers with seal, thrust pin and spring steel

Order No.	D	D1	L	L1	D2	±S	F ca.N	X if Y = 1	X if Y = 2	X if Y = 3	X if Y = 4.5	X if Y = 6	X if Y = 8	Order No. assembly tool
K0368.22034	6	3	7	4	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.22036	6	3	7	4	6	0,5	20	0,8	1	1	1	1	1	K0369.03
K0368.22038	6	3	7	4	6	0,5	40	0,8	1	1	1	1	1	K0369.03
K0368.22054	10	5	12	6	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.22056	10	5	12	6	10	0,8	50	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.22058	10	5	12	6	10	0,8	100	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.22064	10	6	12	10	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.22066	10	6	12	10	10	1	75	-	-	-	1,7	1,9	1,9	K0369.05
K0368.22068	10	6	12	10	10	1	100	-	-	-	1,7	1,9	1,9	K0369.05
K0368.22084	12	8	14	13	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.22086	12	8	14	13	12	1,3	100	-	-	-	-	2,5	2,7	K0369.08
K0368.22088	12	8	14	13	12	1,3	150	-	-	-	-	2,5	2,7	K0369.08
K0368.22104	16	10	18	16	16	1,6	100	-	-	-	-	-	3,1	K0369.10
K0368.22106	16	10	18	16	16	1,6	150	-	-	-	-	-	3,1	K0369.10
K0368.22108	16	10	18	16	16	1,6	200	-	-	-	-	-	3,1	K0369.10

KIPP Lateral spring plungers without seal, thrust pin POM, spring steel

Order No.	D	D1	L	L1	D2	±S	F ca.N	X if Y = 1	X if Y = 2	X if Y = 3	X if Y = 4.5	X if Y = 6	X if Y = 8	Order No. assembly tool
K0368.71034	6	3	7	4	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.71054	10	5	11	6,7	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.71064	10	6	11	10,7	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.71084	12	8	13	13,9	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.71104	16	10	17	16,7	16	1,6	100	-	-	-	-	-	3,1	K0369.10

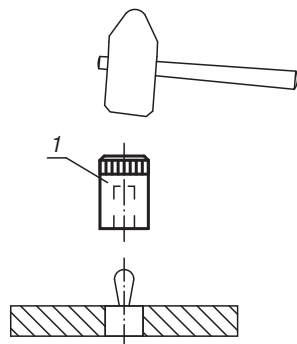
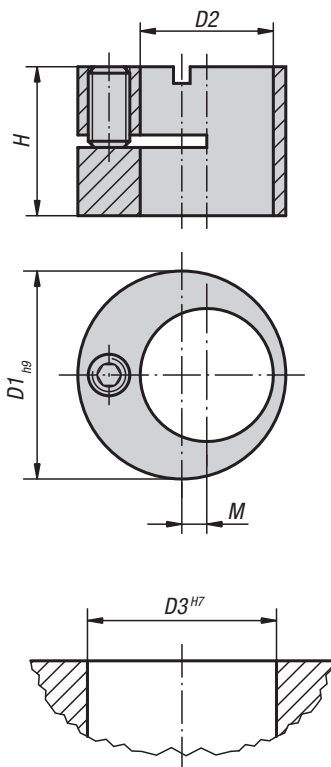
KIPP Lateral spring plungers with seal, thrust pin POM, spring steel

Order No.	D	D1	L	L1	D2	±S	F ca.N	X if Y = 1	X if Y = 2	X if Y = 3	X if Y = 4.5	X if Y = 6	X if Y = 8	Order No. assembly tool
K0368.72034	6	3	7	4	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.72054	10	5	12	6	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.72064	10	6	12	10	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.72084	12	8	14	13	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.72104	16	10	18	16	16	1,6	100	-	-	-	-	-	3,1	K0369.10



Offset bushes and assembly tool

for lateral spring plungers



Material:
Steel.

Version:
Black oxidised.

Sample order:
K0369.180

Note:
Offset bushes enable lateral spring plungers to be precisely positioned with regard to the workpiece.

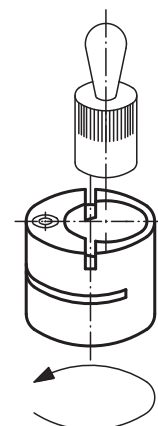
Drawing reference:
1) assembly tool

KIPP Assembly tools

Order No.	Suitable for lateral spring plungers with D =
K0369.03	6
K0369.05	10
K0369.08	12
K0369.10	16

KIPP Offset bushes for lateral spring plungers

Order No.	D1	D2	D3	H	M	Suitable for lateral spring plungers with D =
K0369.120	12	6	12	9,9	2	6
K0369.160	16	10	16	11,9	2	10
K0369.180	18	12	18	13,9	2	12
K0369.250	25	16	25	17,9	3	16



Eccentric bushes

with centre bore



Material:
Stainless steel 1.4305.

Version:
Bright.

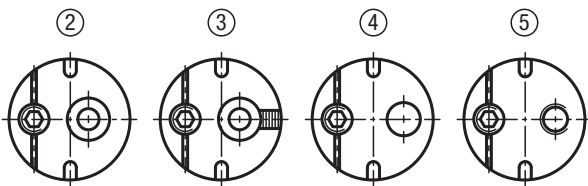
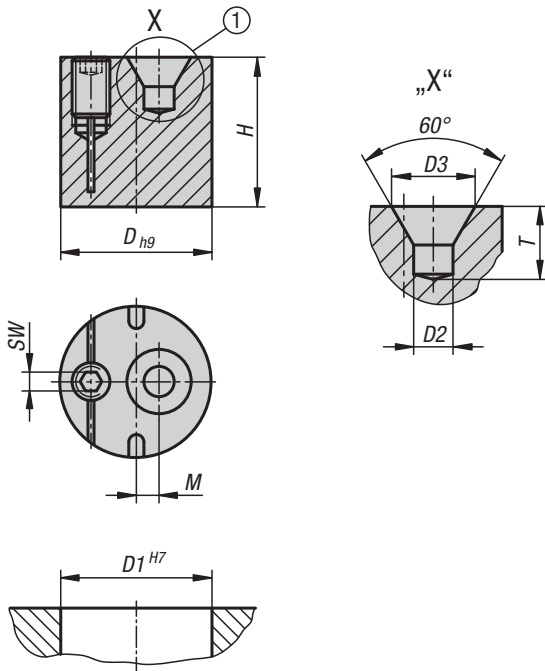
Sample order:
K1292.121

Note:
For H7 holes. Turning the grub screw creates a surface pressure. Use a face pin spanner to turn the bush to the desired position and lock it in place with the grub screw.

Application:
These eccentric bushes can be used as e.g. stops or tolerance compensators.

- 1) DIN 332-1 centre bore, Form A
- 2) Basic form with centring
- 3) With scale groove for visual stop
- 4) Through hole
- 5) Tapped hole

- Advantages:**
- Easy handling
 - Grub screw clamping
 - Minimal installation space
 - Arbitrary mounting position
 - Customised application
 - Versatile use

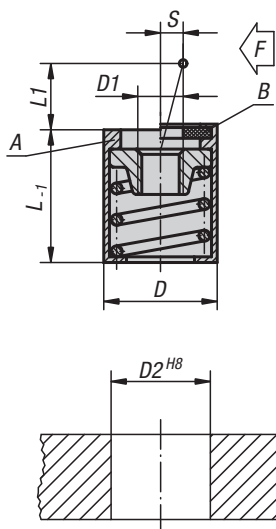


KIPP Eccentric bushes with centre bore

Order No.	D	D1	D2	D3	H	M	SW	T	Tightening torque Nm
K1292.101	10	10	1	2,12	9,8	2,25	2	1,9	1,5
K1292.121	12	12	1,6	3,35	11,8	2	2	2,9	1,5
K1292.141	15	15	2,5	5,3	14,8	2,25	2,5	4,6	2
K1292.161	18	18	4	8,5	15,8	2,25	2,5	7,4	2
K1292.201	20	20	4	8,5	19,8	3	3	7,4	5

Lateral spring plungers

without thrust pin



Material:

Sleeve aluminium.
Receiving washer steel.
Spring steel.

Version:

Sleeve blue electro zinc-plated.
Washer, hardened and burnished.

Sample order:

K0370.31058

Note:

The thrust pin can be made to suit the required circumstances and screwed into the tapped hole in the locating washer.

The required lateral thrust (F) can be achieved through the stroke (S) and length (L1).

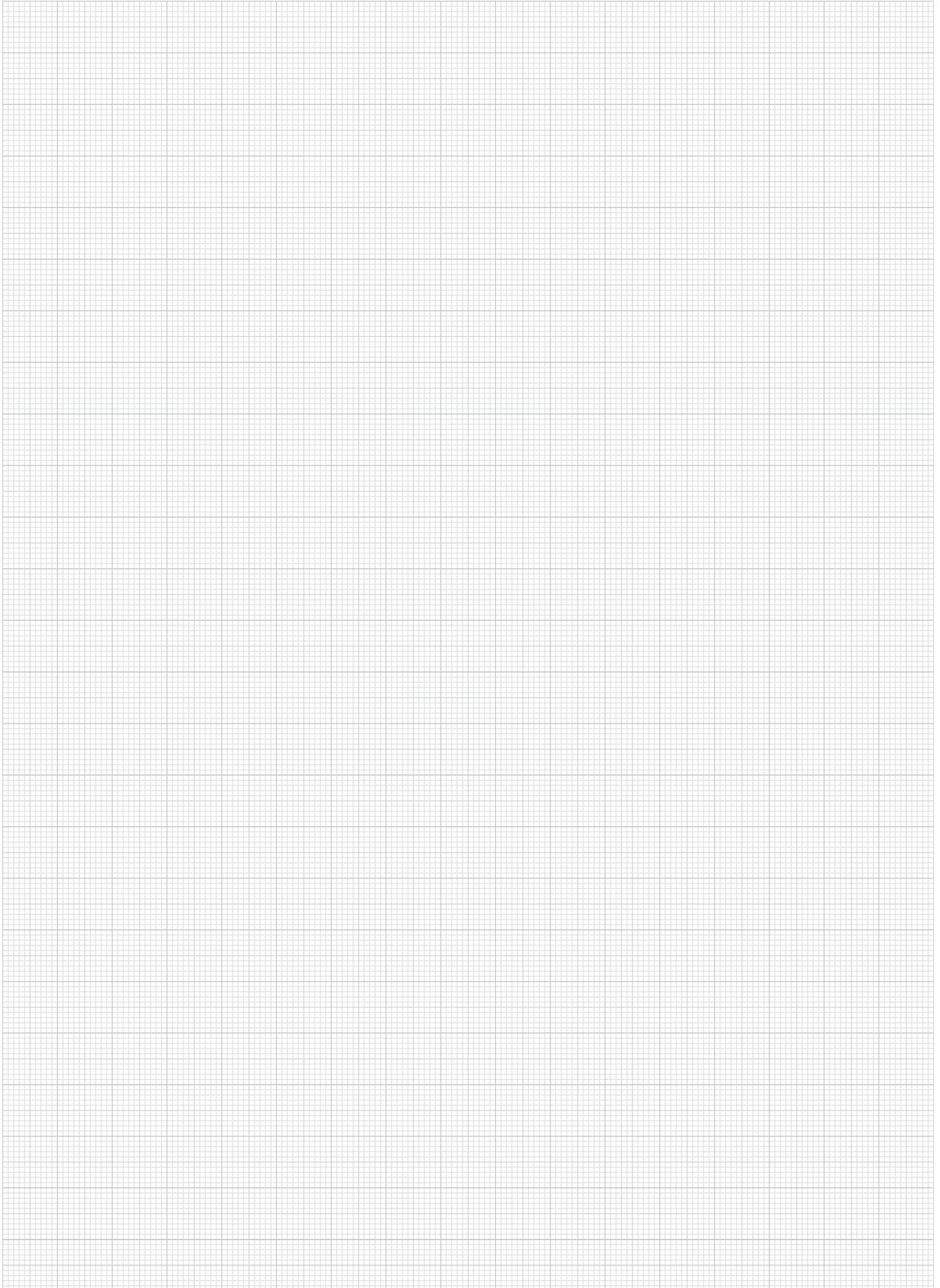
Form B has a seal to keep swarf and dirt out.

KIPP Lateral spring plungers without thrust pin, Form A, without seal

Order No.	Form	D	D1	D2	L	L1	S	F ca.N
K0370.31054	A	10	M4	10	12	4	1,6	20
K0370.31056	A	10	M4	10	12	4	1,6	50
K0370.31058	A	10	M4	10	12	4	1,6	100
K0370.31064	A	10	M4	10	12	7,5	2	40
K0370.31066	A	10	M4	10	12	7,5	2	75
K0370.31068	A	10	M4	10	12	7,5	2	100
K0370.31104	A	16	M6	16	18	11,5	3,2	100
K0370.31106	A	16	M6	16	18	11,5	3,2	150
K0370.31108	A	16	M6	16	18	11,5	3,2	200

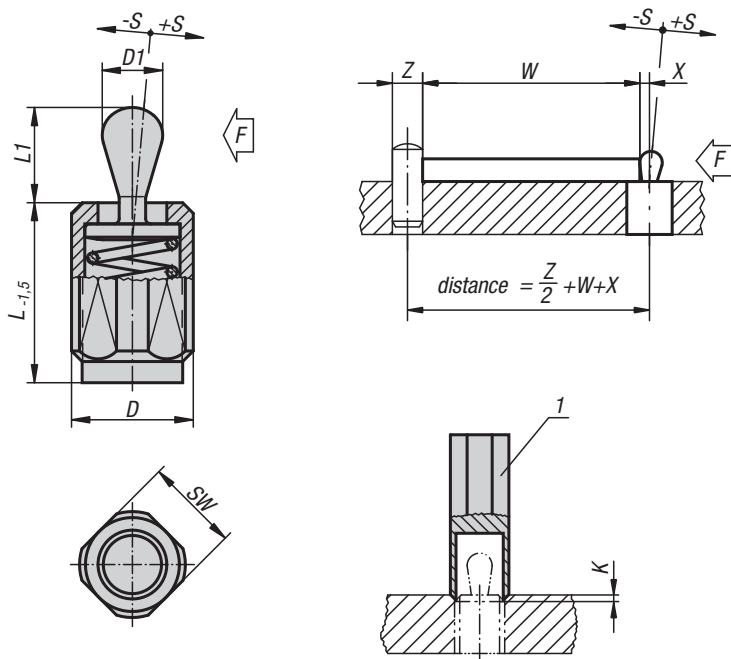
KIPP Lateral spring plungers without thrust pins, Form B, with seal

Order No.	Form	D	D1	D2	L	L1	S	F ca.N
K0370.32054	B	10	M4	10	12	4	1,6	20
K0370.32056	B	10	M4	10	12	4	1,6	50
K0370.32058	B	10	M4	10	12	4	1,6	100
K0370.32064	B	10	M4	10	12	7,5	2	40
K0370.32066	B	10	M4	10	12	7,5	2	75
K0370.32068	B	10	M4	10	12	7,5	2	100
K0370.32104	B	16	M6	16	18	11,5	3,2	100
K0370.32106	B	16	M6	16	18	11,5	3,2	150
K0370.32108	B	16	M6	16	18	11,5	3,2	200



Lateral spring plungers

with threaded sleeve



Material:

Steel.

Version:

Thrust pin steel, hardened and electro zinc-plated.
Sleeve blue electro zinc-plated.

Sample order:

K0371.1020X12

Note:

Lateral spring plungers with threaded sleeve can be individually adjusted to suit the the part being held. The threaded sleeve is also suitable for screwing into thin sheet metal as it can be fastened with one or two nuts. W and Z are customer specified.

Drawing reference:

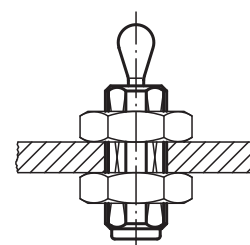
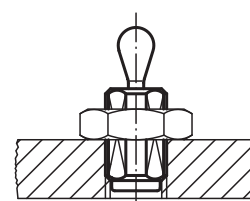
1) assembly tool

KIPP Lateral spring plungers without seal

Order No.	D	D1	K	L	L1	±S	SW	X	F ca.N	Order No. assembly tool
K0371.1020X12	M12	5	2x60°	11,5	6,7	0,8	10	1,6	20	K0371.06
K0371.1020X20	M12	5	2x60°	19	6,7	0,8	10	1,6	20	K0371.06
K0371.1020X27	M12	5	2x60°	26,5	6,7	0,8	10	1,6	20	K0371.06
K0371.1050X12	M12	5	2x60°	11,5	6,7	0,8	10	1,6	50	K0371.06
K0371.1050X20	M12	5	2x60°	19	6,7	0,8	10	1,6	50	K0371.06
K0371.1050X27	M12	5	2x60°	26,5	6,7	0,8	10	1,6	50	K0371.06
K0371.1100X12	M12	5	2x60°	11,5	6,7	0,8	10	1,6	100	K0371.06
K0371.1100X20	M12	5	2x60°	19	6,7	0,8	10	1,6	100	K0371.06
K0371.1100X27	M12	5	2x60°	26,5	6,7	0,8	10	1,6	100	K0371.06
K0371.1040X12	M12	6	2x60°	11,5	10,7	1	10	1,8	40	K0371.06
K0371.1040X20	M12	6	2x60°	19	10,7	1	10	1,8	40	K0371.06
K0371.1040X27	M12	6	2x60°	26,5	10,7	1	10	1,8	40	K0371.06
K0371.1075X12	M12	6	2x60°	11,5	10,7	1	10	1,8	75	K0371.06
K0371.1075X20	M12	6	2x60°	19	10,7	1	10	1,8	75	K0371.06
K0371.1075X27	M12	6	2x60°	26,5	10,7	1	10	1,8	75	K0371.06
K0371.1150X12	M12	6	2x60°	11,5	10,7	1	10	1,8	100	K0371.06
K0371.1150X20	M12	6	2x60°	19	10,7	1	10	1,8	100	K0371.06
K0371.1150X27	M12	6	2x60°	26,5	10,7	1	10	1,8	100	K0371.06
K0371.1100X16	M18X1,5	10	2,5x60°	18	16,7	1,6	16	3,2	100	K0371.10
K0371.1100X29	M18X1,5	10	2,5x60°	31,5	16,7	1,6	16	3,2	100	K0371.10
K0371.1100X43	M18X1,5	10	2,5x60°	45	16,7	1,6	16	3,2	100	K0371.10
K0371.1200X16	M18X1,5	10	2,5x60°	18	16,7	1,6	16	3,2	150	K0371.10
K0371.1200X29	M18X1,5	10	2,5x60°	31,5	16,7	1,6	16	3,2	150	K0371.10
K0371.1200X43	M18X1,5	10	2,5x60°	45	16,7	1,6	16	3,2	150	K0371.10
K0371.1300X16	M18X1,5	10	2,5x60°	18	16,7	1,6	16	3,2	200	K0371.10
K0371.1300X29	M18X1,5	10	2,5x60°	31,5	16,7	1,6	16	3,2	200	K0371.10
K0371.1300X43	M18X1,5	10	2,5x60°	45	16,7	1,6	16	3,2	200	K0371.10

Lateral spring plungers

with threaded sleeve



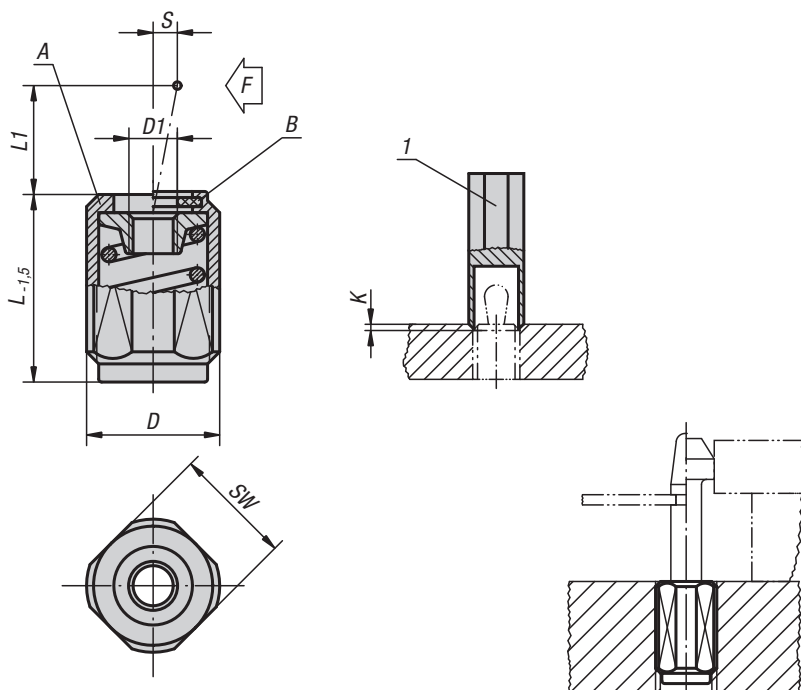
KIPP Lateral spring plungers with seal

Order No.	D	D1	K	L	L1	±S	SW	X	F ca.N	Order No. assembly tool
K0371.3020X12	M12	5	2x60°	11,5	6	0,8	10	1,6	20	K0371.06
K0371.3020X20	M12	5	2x60°	19	6	0,8	10	1,6	20	K0371.06
K0371.3020X27	M12	5	2x60°	26,5	6	0,8	10	1,6	20	K0371.06
K0371.3050X12	M12	5	2x60°	11,5	6	0,8	10	1,6	50	K0371.06
K0371.3050X20	M12	5	2x60°	19	6	0,8	10	1,6	50	K0371.06
K0371.3050X27	M12	5	2x60°	26,5	6	0,8	10	1,6	50	K0371.06
K0371.3100X12	M12	5	2x60°	11,5	6	0,8	10	1,6	100	K0371.06
K0371.3100X20	M12	5	2x60°	19	6	0,8	10	1,6	100	K0371.06
K0371.3100X27	M12	5	2x60°	26,5	6	0,8	10	1,6	100	K0371.06
K0371.3040X12	M12	6	2x60°	11,5	10	1	10	1,8	40	K0371.06
K0371.3040X20	M12	6	2x60°	19	10	1	10	1,8	40	K0371.06
K0371.3040X27	M12	6	2x60°	26,5	10	1	10	1,8	40	K0371.06
K0371.3075X12	M12	6	2x60°	11,5	10	1	10	1,8	75	K0371.06
K0371.3075X20	M12	6	2x60°	19	10	1	10	1,8	75	K0371.06
K0371.3075X27	M12	6	2x60°	26,5	10	1	10	1,8	75	K0371.06
K0371.3150X12	M12	6	2x60°	11,5	10	1	10	1,8	100	K0371.06
K0371.3150X20	M12	6	2x60°	19	10	1	10	1,8	100	K0371.06
K0371.3150X27	M12	6	2x60°	26,5	10	1	10	1,8	100	K0371.06
K0371.3100X16	M18X1,5	10	2,5x60°	18	16	1,6	16	3,2	100	K0371.10
K0371.3100X29	M18X1,5	10	2,5x60°	31,5	16	1,6	16	3,2	100	K0371.10
K0371.3100X43	M18X1,5	10	2,5x60°	45	16	1,6	16	3,2	100	K0371.10
K0371.3200X16	M18X1,5	10	2,5x60°	18	16	1,6	16	3,2	150	K0371.10
K0371.3200X29	M18X1,5	10	2,5x60°	31,5	16	1,6	16	3,2	150	K0371.10
K0371.3200X43	M18X1,5	10	2,5x60°	45	16	1,6	16	3,2	150	K0371.10
K0371.3300X16	M18X1,5	10	2,5x60°	18	16	1,6	16	3,2	200	K0371.10
K0371.3300X29	M18X1,5	10	2,5x60°	31,5	16	1,6	16	3,2	200	K0371.10
K0371.3300X43	M18X1,5	10	2,5x60°	45	16	1,6	16	3,2	200	K0371.10



Lateral spring plungers

with threaded sleeve, without thrust pin



Material:

Steel.

Version:

Sleeve blue electro zinc-plated.
Washer, hardened and burnished.

Sample order:

K0372.1100X20

Note:

The thrust pin can be made to suit the required circumstances and screwed into the tapped hole in the locating washer.

The required lateral thrust (F) can be achieved through the stroke (S) and length (L1).

Form B has a seal to keep swarf and dirt out.

Drawing reference:

Form A: without seal

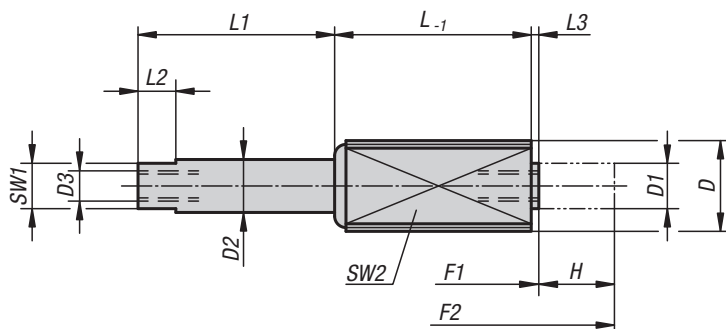
Form B: with seal

1) assembly tool

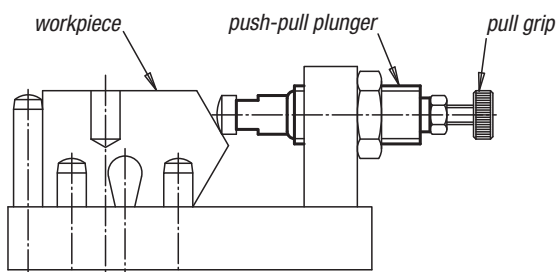
KIPP Lateral spring plungers with threaded sleeve, without thrust pin

Order No. A	Order No. B	L	L1	D	D1	±S	F ca.N	SW	K	Order No. assembly tool
K0372.1020X12	K0372.2020X12	11,5	4	M12	M4	1,6	20	10	2x60°	K0371.06
K0372.1020X20	K0372.2020X20	19	4	M12	M4	1,6	20	10	2x60°	K0371.06
K0372.1020X27	K0372.2020X27	26,5	4	M12	M4	1,6	20	10	2x60°	K0371.06
K0372.1040X12	K0372.2040X12	11,5	7,5	M12	M4	2	40	10	2x60°	K0371.06
K0372.1040X20	K0372.2040X20	19	7,5	M12	M4	2	40	10	2x60°	K0371.06
K0372.1040X27	K0372.2040X27	26,5	7,5	M12	M4	2	40	10	2x60°	K0371.06
K0372.1050X12	K0372.2050X12	11,5	4	M12	M4	1,6	50	10	2x60°	K0371.06
K0372.1050X20	K0372.2050X20	19	4	M12	M4	1,6	50	10	2x60°	K0371.06
K0372.1050X27	K0372.2050X27	26,5	4	M12	M4	1,6	50	10	2x60°	K0371.06
K0372.1075X12	K0372.2075X12	11,5	7,5	M12	M4	2	75	10	2x60°	K0371.06
K0372.1075X20	K0372.2075X20	19	7,5	M12	M4	2	75	10	2x60°	K0371.06
K0372.1075X27	K0372.2075X27	26,5	7,5	M12	M4	2	75	10	2x60°	K0371.06
K0372.1100X12	K0372.2100X12	11,5	4	M12	M4	1,6	100	10	2x60°	K0371.06
K0372.1100X20	K0372.2100X20	19	4	M12	M4	1,6	100	10	2x60°	K0371.06
K0372.1100X27	K0372.2100X27	26,5	4	M12	M4	1,6	100	10	2x60°	K0371.06
K0372.1150X12	K0372.2150X12	11,5	7,5	M12	M4	2	100	10	2x60°	K0371.06
K0372.1150X20	K0372.2150X20	19	7,5	M12	M4	2	100	10	2x60°	K0371.06
K0372.1150X27	K0372.2150X27	26,5	7,5	M12	M4	2	100	10	2x60°	K0371.06
K0372.1100X16	K0372.2100X16	18	11,5	M18X1,5	M6	3,2	100	16	2,5x60°	K0371.10
K0372.1100X29	K0372.2100X29	31,5	11,5	M18X1,5	M6	3,2	100	16	2,5x60°	K0371.10
K0372.1100X43	K0372.2100X43	45	11,5	M18X1,5	M6	3,2	100	16	2,5x60°	K0371.10
K0372.1200X16	K0372.2200X16	18	11,5	M18X1,5	M6	3,2	150	16	2,5x60°	K0371.10
K0372.1200X29	K0372.2200X29	31,5	11,5	M18X1,5	M6	3,2	150	16	2,5x60°	K0371.10
K0372.1200X43	K0372.2200X43	45	11,5	M18X1,5	M6	3,2	150	16	2,5x60°	K0371.10
K0372.1300X16	K0372.2300X16	18	11,5	M18X1,5	M6	3,2	200	16	2,5x60°	K0371.10
K0372.1300X29	K0372.2300X29	31,5	11,5	M18X1,5	M6	3,2	200	16	2,5x60°	K0371.10
K0372.1300X43	K0372.2300X43	45	11,5	M18X1,5	M6	3,2	200	16	2,5x60°	K0371.10

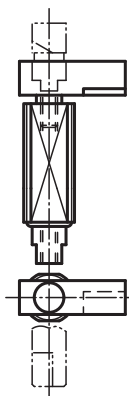
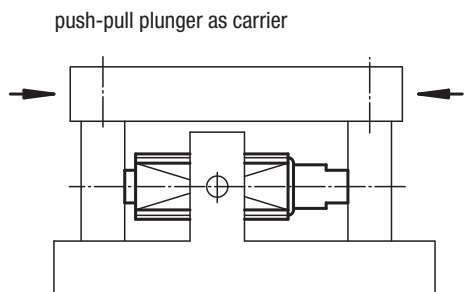
Spring plungers push-pull



push-pull plunger



pull plunger as lock



Material:
Steel.

Version:
Sleeve blue electro zinc-plated.
Spring pins black oxidised.

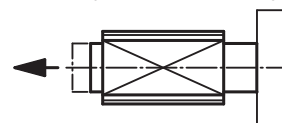
Sample order:
K0373.1202004

Note:
The tapped hole in both ends of the spring pin allow various inserts to be attached e.g. prisms, thrust pins, self-aligning pads, knobs, grips etc.

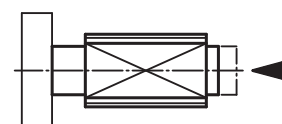
Assembly:
LOCTITE threadlocker K0655.243.... is recommended for gluing the threaded sleeve in position.

Application:

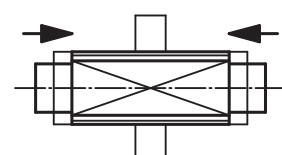
As push plunger:
The spring force pushes the object.



As pull plunger:
The spring force pulls the object.



As push-pull plunger:
In this case the internal pin has a fixed position. The threaded sleeve acts as carrier. The spring force pushes or pulls the object in both directions.

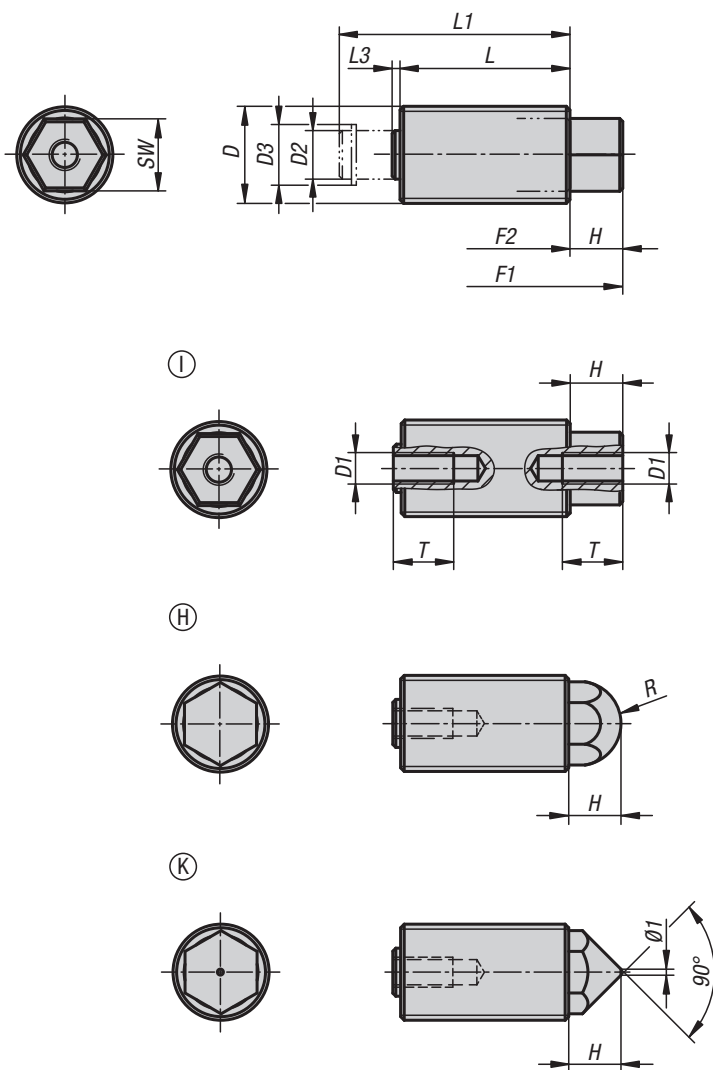


KIPP Push-Pull spring plungers

Order No.	D	D1	D2	D3	H	L	L1	L2	L3	SW1	SW2	Spring force square initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0373.1202004	M12	6	7	M4x8	3,5	11	4,5	5	1	6	10	5	20
K0373.1202006	M12	6	7	M4x8	6	18,5	7	5	1	6	10	5	20
K0373.1202010	M12	6	7	M4x8	10	26	11	5	1	6	10	5	20
K0373.1206003	M12	6	7	M4x8	3	11	4,5	5	1	6	10	12	40
K0373.1206005	M12	6	7	M4x8	5	18,5	7	5	1	6	10	12	40
K0373.1206008	M12	6	7	M4x8	8	26	11	5	1	6	10	12	40
K0373.1212503	M12	6	7	M4x8	3	11	4,5	5	1	6	10	20	100
K0373.1212505	M12	6	7	M4x8	5	18,5	7	5	1	6	10	20	100
K0373.1212508	M12	6	7	M4x8	8	26	11	5	1	6	10	20	100
K0373.1815004	M18x1,5	10	11	M6x12	4	17	6	6	2,5	9	16	50	150
K0373.1815007	M18x1,5	10	11	M6x12	7	29,5	11,5	6	2,5	9	16	50	150
K0373.1815013	M18x1,5	10	11	M6x12	12,5	45,5	16	6	2,5	9	16	50	150

Spring plungers push-pull

with rotation lock



Material:
Steel.

Version:
Threaded sleeve trivalent blue passivated.
Screw case hardened and black oxidised.
Spring strength - standard or intensified.

Sample order:
K0997.1112

Note:
The push-pull spring plungers, also called two-way spring plungers are used to engage, position or clamp various components. The hexagonal tapped pin which cannot rotate can be used for traction or thrust.

KIPP Push-Pull spring plungers with rotation lock

Order No.	Form	Spring strength	D	D1	D2	D3	F1 N	F2 N	H	L	L1	L3	R	SW	T min.
K0977.1112	I	standard	M12x1,5	M4	5,5	6,78	16	38	6,12	20	27,5	1,38	-	8	8
K0977.1116	I	standard	M16x1,5	M5	8	10	25	71	8,7	28	38	1,3	-	11	10
K0977.1120	I	standard	M20x1,5	M6	10	12,2	40	140	10,3	34	47	2,7	-	14	12
K0977.1212	I	intensified	M12x1,5	M4	5,5	6,78	20	60	6,12	20	27,5	1,38	-	8	8
K0977.1216	I	intensified	M16x1,5	M5	8	10	35	103	8,7	28	38	1,3	-	11	10
K0977.1220	I	intensified	M20x1,5	M6	10	12,2	60	175	10,3	34	47	2,7	-	14	12
K0977.2112	H	standard	M12x1,5	M4	5,5	6,78	16	38	6,12	20	27,5	1,38	5,5	8	8
K0977.2116	H	standard	M16x1,5	M5	8	10	25	71	8,7	28	38	1,3	7	11	10
K0977.2120	H	standard	M20x1,5	M6	10	12,2	40	140	10,3	34	47	2,7	9	14	12
K0977.2212	H	intensified	M12x1,5	M4	5,5	6,78	20	60	6,12	20	27,5	1,38	5,5	8	8
K0977.2216	H	intensified	M16x1,5	M5	8	10	35	103	8,7	28	38	1,3	7	11	10
K0977.2220	H	intensified	M20x1,5	M6	10	12,2	60	175	10,3	34	47	2,7	9	14	12
K0977.3112	K	standard	M12x1,5	M4	5,5	6,78	16	38	6,12	20	27,5	1,38	-	8	8
K0977.3116	K	standard	M16x1,5	M5	8	10	25	71	8,7	28	38	1,3	-	11	10
K0977.3120	K	standard	M20x1,5	M6	10	12,2	40	140	10,3	34	47	2,7	-	14	12
K0977.3212	K	intensified	M12x1,5	M4	5,5	6,78	20	60	6,12	20	27,5	1,38	-	8	8
K0977.3216	K	intensified	M16x1,5	M5	8	10	35	103	8,7	28	38	1,3	-	11	10
K0977.3220	K	intensified	M20x1,5	M6	10	12,2	60	175	10,3	34	47	2,7	-	14	12

Lateral spring plungers



Material:
 Body mild steel.
 Ball steel or stainless steel hardened or POM.
 Spring stainless steel or plastic.

Version:
 Body black oxidised.
 Ball bright.

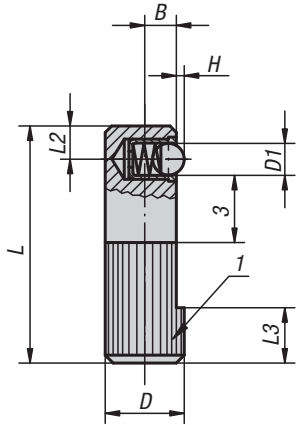
Sample order:
 K0374.410

Note:
 The lateral spring plunger must be pressed into the hole to at least depth L3. These plungers are for positioning and holding small parts in fixtures. If mechanical machining of the workpiece is to be carried out, other clamps may be necessary. When the fixture is not in use it should be ensured that plastic springs are not under stress.

Spring force refers to a mean value.

Drawing reference:

- 1) knurl
- 2) light holding

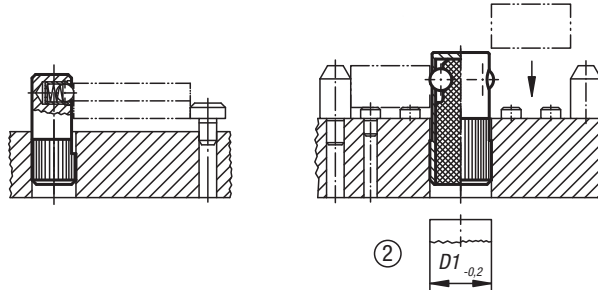
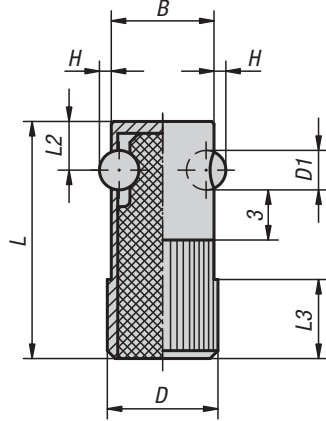
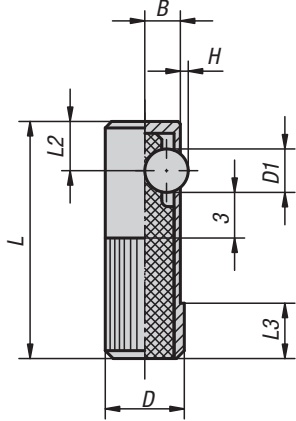


Form A
 stainless steel ball,
 one side

Form B
 POM ball,
 one side

Form C
 steel ball, one side
 plastic spring

Form D
 steel ball, both sides
 plastic spring

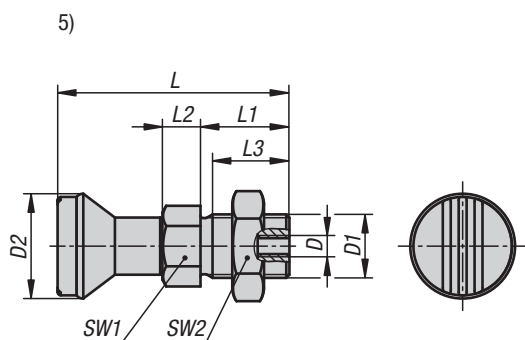
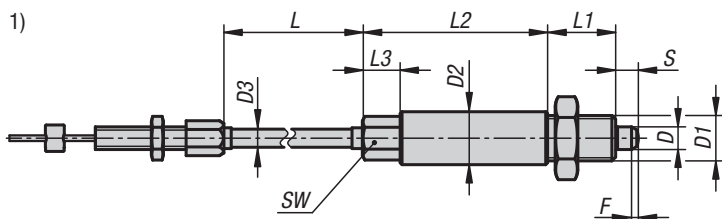


KIPP Lateral spring plungers

Order No.	Form	B	D	D1	H	L	L2	L3	Receiving hole H8	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0374.008	A	3,2	8	3	0,7	25	3,6	6	8	2,5	6,5
K0374.010	A	4	10	4	1,0	30	4,2	7	10	4,5	9
K0374.012	A	5	12	5	1,5	35	4,8	9	12	6,5	13
K0374.014	A	5,4	14	6,5	1,8	40	5,8	10	14	8	18
K0374.108	B	3,2	8	3	0,7	25	3,6	6	8	2,5	6,5
K0374.110	B	4	10	4	1,0	30	4,2	7	10	4,5	9
K0374.112	B	5	12	5	1,5	35	4,8	9	12	6,5	13
K0374.114	B	5,4	14	6,5	1,8	40	5,8	10	14	8	18
K0374.410	C	4,5	10	5,5	1	30	7	8	10	60	170
K0374.412	C	5,5	12	6,5	1,5	35	8	9	12	80	260
K0374.414	C	6,5	14	8	2	40	9	10	14	120	480
K0374.616	D	15	16	5,5	1,5	35	7	11	16	110	220
K0374.618	D	17	18	6,5	1,8	40	8	12	18	120	330
K0374.622	D	21	22	8	2,5	45	9	15	22	130	540

Indexing plunger, stainless steel

with remote actuation



Indexing plungers are used where it is necessary to prevent changes of position due to lateral forces. Some examples of this are for length, height and position locking in machine, furniture and special vehicle construction.

Indexing plungers with remote actuation are used where inaccessible assembly spaces are making it difficult to operate, or where remote actuation is required for ergonomic or safety reasons.

The indexing plunger is connected to the operator side by a Bowden cable. The combination of indexing plunger and actuating element forms a complete system which can be used for many types of application.

As an alternative to the actuating element, the supplied screw nipple ($\text{\O}5 \times 7 \text{ mm}$) can be used to integrate an individual actuating element into the system.

The Bowden cable is available in various lengths. To ensure an exact fit in the application concerned, the Bowden cable can be shortened as required when installing.

Corrosion protection is provided by selecting a suitable material for coating application. The wire cable or cable casing can be replaced easily if required.

Material:

Indexing plunger and actuating element, stainless steel.
Mushroom grip in thermoplastic.
Wire cable in stainless steel.
Cable casing made of steel wire with inner and outer plastic sheathing.
End sleeves, adjusting screws and screw nipples made of brass.

Version:

Indexing pin, hardened, ground and bright.
Bowden cable casing, black.
Mushroom grip, thermoplastic dark grey.
Plastic cover, thermoplastic in black, grey, red or yellow.

Sample order:

K1502.02206X1000 (include length L)

Note for ordering:

Indexing plungers with remote actuation and actuating element must be ordered separately.

Indexing plunger, stainless steel

with remote actuation



Note:

When installing the Bowden cables, the following points should be noted:

The length of the free end of the cable can change due to the layout angle, bending radius and load factors. So, after laying the Bowden cable, the length of the counter-bearing (casing) must be adjusted using the adjusting screw supplied. The adjusting screw is also used to set the pretension in the Bowden cable system.

When laying the cable, particular care must be taken to ensure that the bending radius is not below the minimum value, which in this case is $R = 65 \text{ mm}$. A radius which is too narrow can lead to increased wear and higher friction.

Also avoid letting the bending radius briefly go below the minimum value when installing, as this can cause damage to the casing. Also, the casing is designed only to support pressure forces. If pulled too sharply, the inner coil will be stretched and permanently damaged.

On request:

Special versions.

Supplied with:

Indexing plunger with remote actuation:
Indexing plunger with preassembled cable, casing, end sleeve, adjusting screw M6 x 34 mm and screw nipple $\varnothing 5 \times 7 \text{ mm}$.

Actuating element:

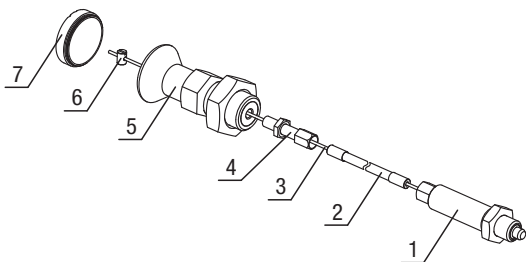
Actuating element with plastic cover.

Accessories:

Hexagon nuts K0700.
Mounting brackets K0638.
Spacer rings K0665.
Positioning bushes K1290.
Actuating element K1502.12420.

Drawing reference:

- 1) Indexing plunger
- 2) Bowden cable casing
- 3) Bowden cable
- 4) Adjusting screw
- 5) Actuating element
- 6) Screw nipple
- 7) Cover



KIPP Indexing plunger, stainless steel with remote actuation

Order No.	D	D1	D2	D3	L	L1	L2	L3	Travel S	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1502.02206X	6	M12x1,5	14	5	1000/3000/5000	18	49	10	6	10	1,8	6	14
K1502.02308X	8	M16x1,5	19	5	1000/3000/5000	23	59	10	8	13	2,3	15	35
K1502.02410X	10	M20x1,5	23	5	1000/3000/5000	24	65	10	10	16	2,8	15	34
K1502.02412X	12	M20x1,5	23	5	1000/3000/5000	26	65	10	12	16	2,8	15	39

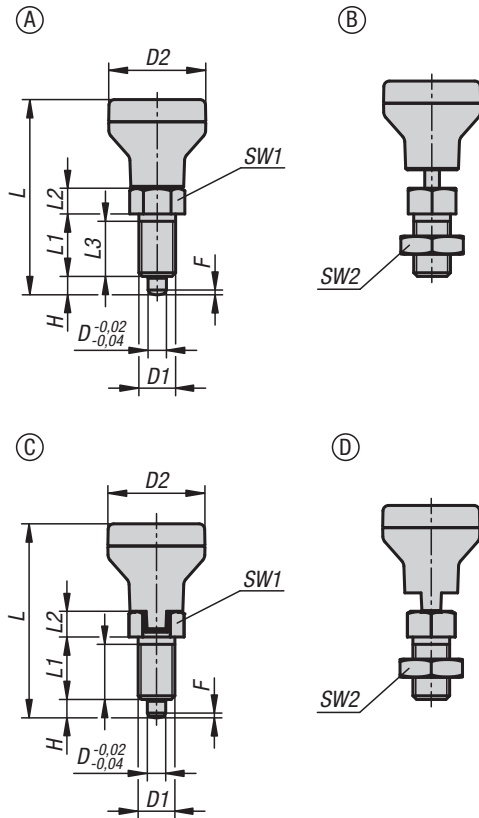
KIPP Actuating elements

Order No.	Colour Cap	Internal thread D	D1	D2	L	L1	L2	L3	SW1	SW2
K1502.12420	black grey RAL 7021	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124205	light grey RAL 7035	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124206	traffic red RAL 3020	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124207	rape yellow RAL 1021	M6	M20x1,5	33	73	28	12	25	22	30



Indexing plunger

with status sensor



Indexing plungers are used where it is necessary to prevent changes of position due to lateral forces. Some examples of this are for length, height and position locking in machines, equipment, furniture and special vehicle construction.

For indexing plungers with status sensor, the actuation status can be detected and processed electronically.

The actuation status is transferred wirelessly by Bluetooth to a mobile terminal or the K1494 gateway. The combination of indexing plunger with status sensor and gateway allows the signal to be processed in a machine control system, for example.

Power to the indexing plunger is supplied from an integrated button cell which can be replaced when necessary.

Material:

Steel version:

Threaded sleeve and indexing pin free-cutting steel.

Stainless-steel version:

Indexing pin hardened:

Threaded sleeve 1.4305.

Indexing pin 1.4034.

Indexing pin not hardened:

Threaded sleeve 1.4305.

Indexing pin 1.4305.

Mushroom knob and cover thermoplastic.

Version:

Steel version:

Threaded sleeve, black oxidised.

Indexing pin hardened, ground and black oxidised.

Stainless-steel version:

Indexing pin hardened, ground and bright. Threaded sleeve bright.

Indexing pin not hardened, ground and bright.

Mushroom knob dark grey.

Cover translucent grey.

Sample order:

K1495.1206

Application:

Indexing plungers with status sensor allow actuation-dependent process control. It is also possible to ensure that the indexing pin is in the desired actuation status.

Advantages:

Wireless transfer of actuation status.

Laborious cable connections no longer necessary.

Intelligent battery management allows long running time

No interfering edges.

Indexing plunger

with status sensor



Accessories:
K1494 Gateway

Safety:
Indexing plungers with status sensor are not suitable for personnel safety functions.

Drawing reference:
Form A: non-lockout type, without locknut
Form B: non-lockout type, with locknut
Form C: lockout type, without locknut
Form D: lockout type, with locknut



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	H	L	L1	L2	L3	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1495.1105	K1495.2105	K1495.3105	K1495.4105	5	M10x1	35	5	57	17	7	15	13	-/17/-/17	1,3	5	12
K1495.1206	K1495.2206	K1495.3206	K1495.4206	6	M12x1,5	35	6	62	20	8	17	14	-/19/-/19	1,8	6	14
K1495.1308	K1495.2308	K1495.3308	K1495.4308	8	M16x1,5	35	8	76	26	10	23	19	-/24/-/24	2,3	15	35
K1495.1410	K1495.2410	K1495.3410	K1495.4410	10	M20x1,5	35	10	82	28	12	25	22	-/30/-/30	2,8	15	34
K1495.1412	K1495.2412	K1495.3412	K1495.4412	12	M20x1,5	35	12	86	28	14	25	22	-/30/-/30	2,8	15	39

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	H	L	L1	L2	L3	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1495.01105	K1495.02105	K1495.03105	K1495.04105	5	M10x1	35	5	57	17	7	15	13	-/17/-/17	1,3	5	12
K1495.01206	K1495.02206	K1495.03206	K1495.04206	6	M12x1,5	35	6	62	20	8	17	14	-/19/-/19	1,8	6	14
K1495.01308	K1495.02308	K1495.03308	K1495.04308	8	M16x1,5	35	8	76	26	10	23	19	-/24/-/24	2,3	15	35
K1495.01410	K1495.02410	K1495.03410	K1495.04410	10	M20x1,5	35	10	82	28	12	25	22	-/30/-/30	2,8	15	34
K1495.01412	K1495.02412	K1495.03412	K1495.04412	12	M20x1,5	35	12	86	28	14	25	22	-/30/-/30	2,8	15	39

KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	H	L	L1	L2	L3	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1495.11105	K1495.12105	K1495.13105	K1495.14105	5	M10x1	35	5	57	17	7	15	13	-/17/-/17	1,3	5	12
K1495.11206	K1495.12206	K1495.13206	K1495.14206	6	M12x1,5	35	6	62	20	8	17	14	-/19/-/19	1,8	6	14
K1495.11308	K1495.12308	K1495.13308	K1495.14308	8	M16x1,5	35	8	76	26	10	23	19	-/24/-/24	2,3	15	35
K1495.11410	K1495.12410	K1495.13410	K1495.14410	10	M20x1,5	35	10	82	28	12	25	22	-/30/-/30	2,8	15	34
K1495.11412	K1495.12412	K1495.13412	K1495.14412	12	M20x1,5	35	12	86	28	14	25	22	-/30/-/30	2,8	15	39



Gateway

for indexing plunger with status sensor



The gateway forms the interface between the indexing plunger with status sensor and the machine control. It receives the wireless signal from the indexing plunger and supplies a binary output signal that can be read by the machine control.

The operating statuses of up to 6 indexing plungers can be transmitted in this way. A mobile terminal can be linked to the gateway for additional visualisation.

The integrated control panel with buttons and LEDs can be used to connect/disconnect the indexing plungers, and also monitor the wireless link, the actuation status, and the level of battery charge.

Material:

Housing polycarbonate.

Version:

Housing top part light grey.
Housing lower part anthracite grey.

Sample order:

K1494.01

Application:

The gateway is used to integrate indexing plungers with status sensors into machines and systems. With the link between gateway and machine control, the actuation statuses of the indexing plungers can be displayed, checked, and used for process control.

Assembly:

On mounting rails as defined in IEC 60715.

Advantages:

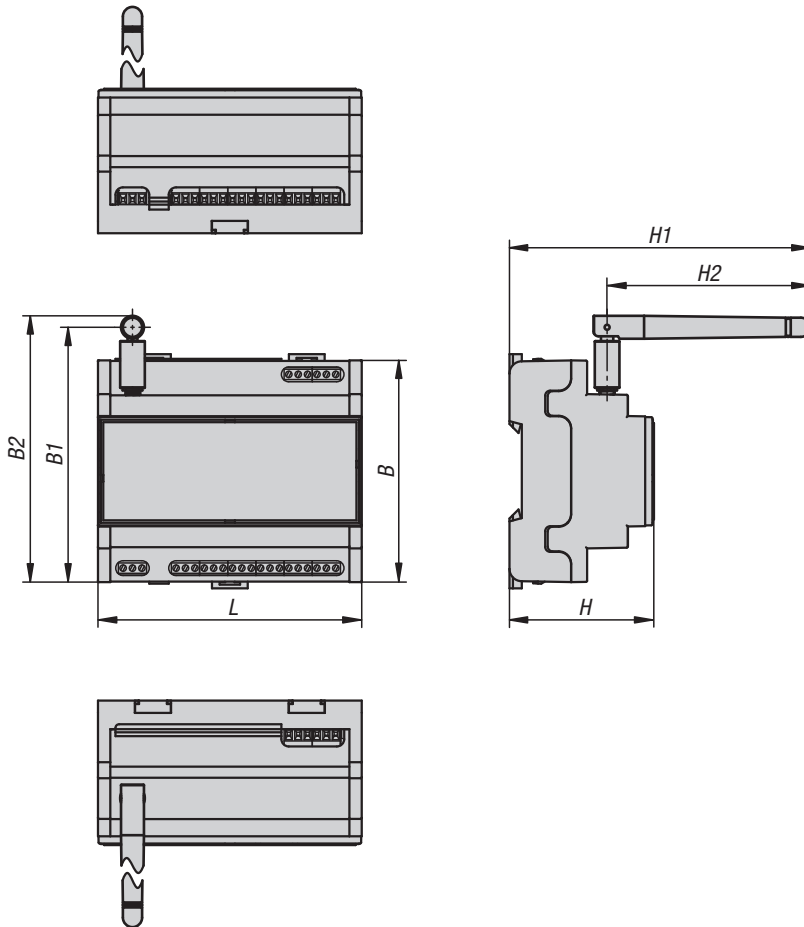
Actuation-dependent process control.
Universal output signal.
Simple installation.

On request:

Further output signals, interfaces

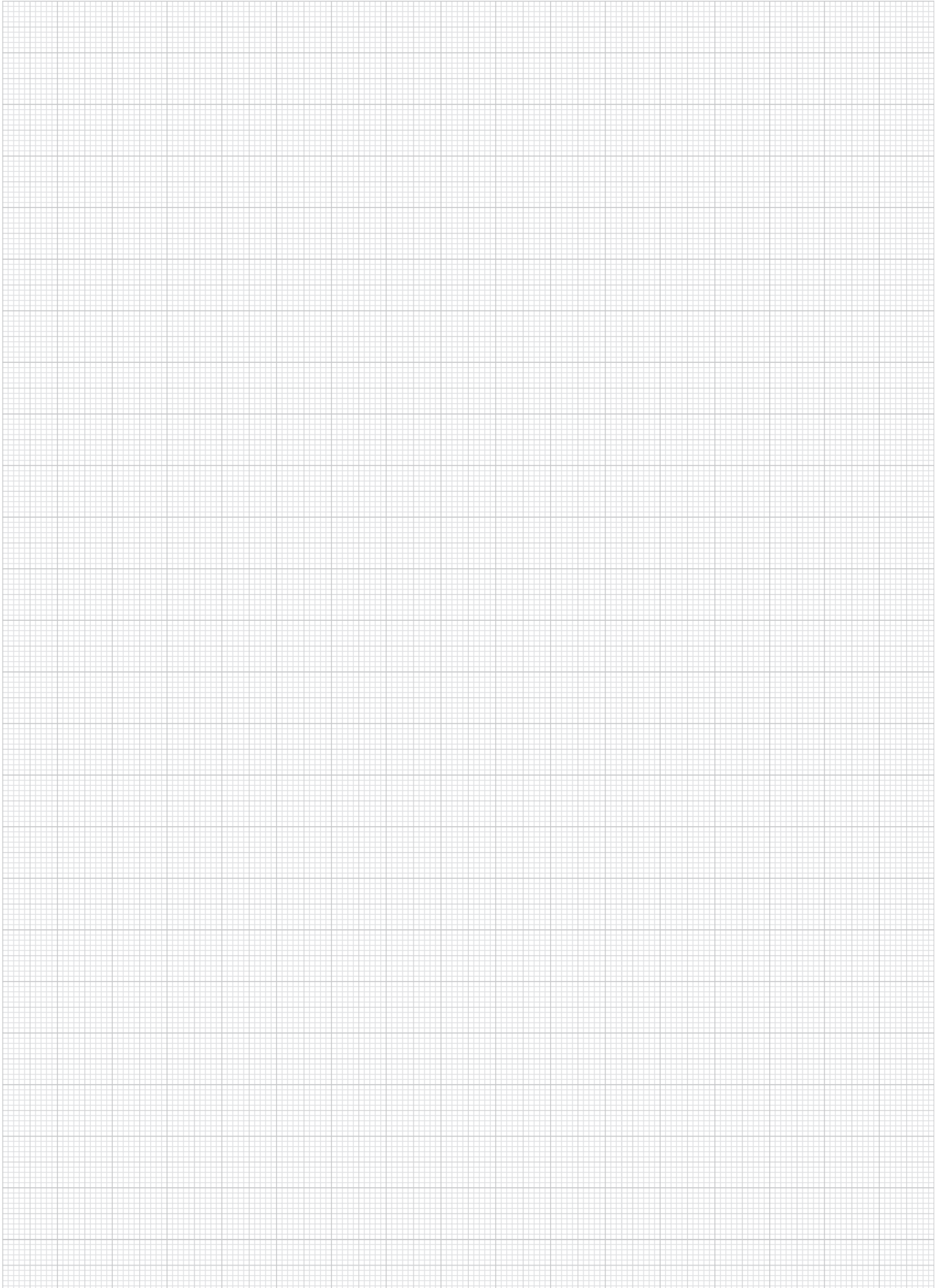
Accessories:

Indexing plunger with status sensor K1495



KIPP Gateway for indexing plunger with status sensor

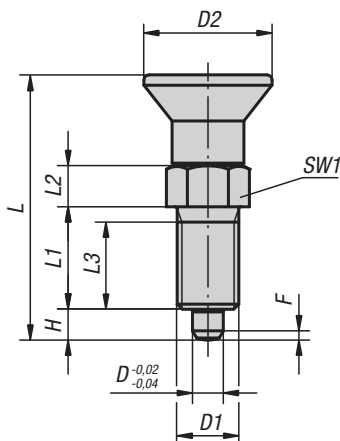
Order No.	Output signal	B	B1	B2	H	H1	H2	L
K1494.01	Relais	90	103,4	108	58,5	122	82,5	107



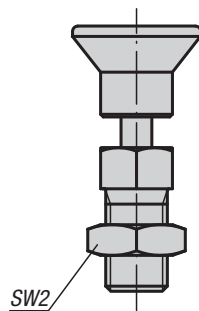
Indexing plungers



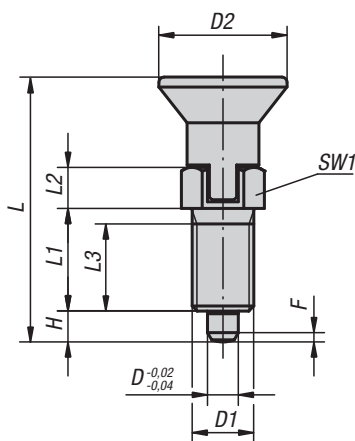
Form A
non-lockout type
without locknut



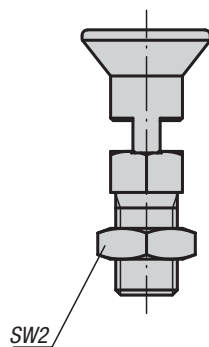
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:

Steel version:
Grub screw and indexing pin steel.

Stainless steel version:
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom grip black grey thermoplastic.

Version:

Steel version:
Threaded sleeve, black oxidised.
Indexing pin hardened, ground and black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright. Threaded sleeve, bright.
Indexing pin not hardened, ground and bright.

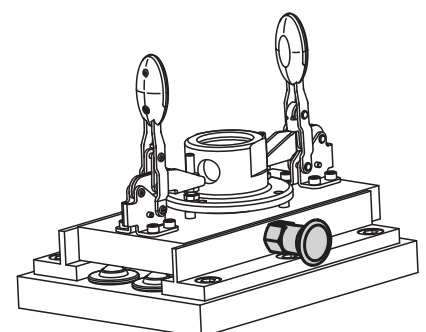
Sample order:
K0338.04206

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications where the plunger remains disengaged over a long period and the pin should be prevented from springing back.

On request:
Special versions.

Accessories:
Spacer rings K0665



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.1903	K0338.2903	K0338.3903	K0338.4903	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.1004	K0338.2004	K0338.3004	K0338.4004	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.1105	K0338.2105	K0338.3105	K0338.4105	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.1206	K0338.2206	K0338.3206	K0338.4206	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.1308	K0338.2308	K0338.3308	K0338.4308	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.1410	K0338.2410	K0338.3410	K0338.4410	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.1412	K0338.2412	K0338.3412	K0338.4412	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.1516	K0338.2516	K0338.3516	K0338.4516	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.01903	K0338.02903	K0338.03903	K0338.04903	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.01004	K0338.02004	K0338.03004	K0338.04004	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.01105	K0338.02105	K0338.03105	K0338.04105	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.01206	K0338.02206	K0338.03206	K0338.04206	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.01308	K0338.02308	K0338.03308	K0338.04308	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.01410	K0338.02410	K0338.03410	K0338.04410	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.01412	K0338.02412	K0338.03412	K0338.04412	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.01516	K0338.02516	K0338.03516	K0338.04516	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin not hardened

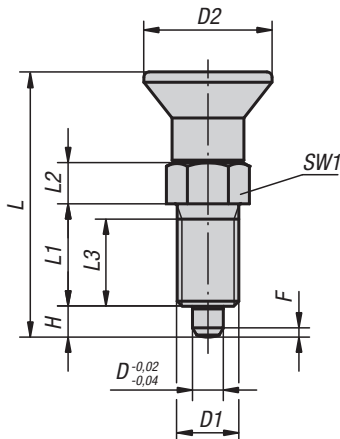
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.11903	K0338.12903	K0338.13903	K0338.14903	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.11004	K0338.12004	K0338.13004	K0338.14004	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.11105	K0338.12105	K0338.13105	K0338.14105	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.11206	K0338.12206	K0338.13206	K0338.14206	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.11308	K0338.12308	K0338.13308	K0338.14308	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.11410	K0338.12410	K0338.13410	K0338.14410	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.11412	K0338.12412	K0338.13412	K0338.14412	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.11516	K0338.12516	K0338.13516	K0338.14516	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46



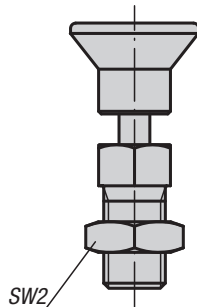
Indexing plungers



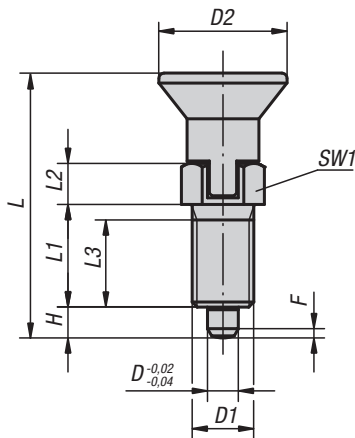
Form A
non-lockout type
without locknut



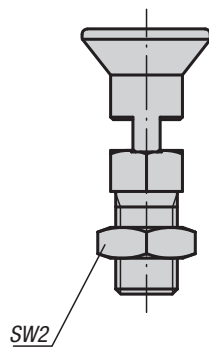
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:

Steel version
Indexing pin hardened:
grade 5.8.

Stainless steel version
Indexing pin hardened:
Threaded sleeve 1.4305
Indexing pin 1.4034

Indexing pin not hardened:
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob red thermoplastic.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0338.0420684

Note:

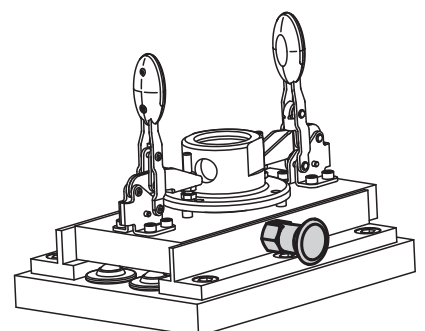
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications where the plunger remains disengaged over a long period and the pin should be prevented from springing back.

On request:

Special versions.

Accessories:

Spacer rings K0665



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.190384	K0338.290384	K0338.390384	K0338.490384	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.100484	K0338.200484	K0338.300484	K0338.400484	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.110584	K0338.210584	K0338.310584	K0338.410584	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.120684	K0338.220684	K0338.320684	K0338.420684	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.130884	K0338.230884	K0338.330884	K0338.430884	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.141084	K0338.241084	K0338.341084	K0338.441084	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.141284	K0338.241284	K0338.341284	K0338.441284	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.151684	K0338.251684	K0338.351684	K0338.451684	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.0190384	K0338.0290384	K0338.0390384	K0338.0490384	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.0100484	K0338.0200484	K0338.0300484	K0338.0400484	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.0110584	K0338.0210584	K0338.0310584	K0338.0410584	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.0120684	K0338.0220684	K0338.0320684	K0338.0420684	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.0130884	K0338.0230884	K0338.0330884	K0338.0430884	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.0141084	K0338.0241084	K0338.0341084	K0338.0441084	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.0141284	K0338.0241284	K0338.0341284	K0338.0441284	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.0151684	K0338.0251684	K0338.0351684	K0338.0451684	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.1190384	K0338.1290384	K0338.1390384	K0338.1490384	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.1100484	K0338.1200484	K0338.1300484	K0338.1400484	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.1110584	K0338.1210584	K0338.1310584	K0338.1410584	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.1120684	K0338.1220684	K0338.1320684	K0338.1420684	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.1130884	K0338.1230884	K0338.1330884	K0338.1430884	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.1141084	K0338.1241084	K0338.1341084	K0338.1441084	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.1141284	K0338.1241284	K0338.1341284	K0338.1441284	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.1151684	K0338.1251684	K0338.1351684	K0338.1451684	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

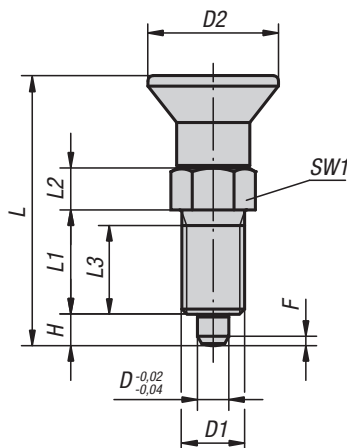


Indexing plungers

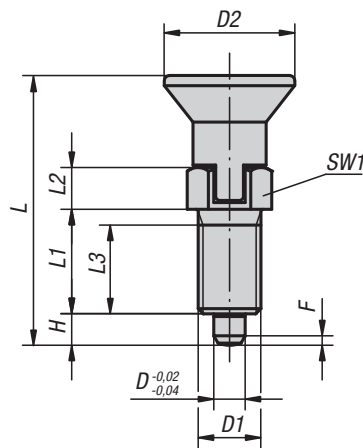
with thread lock



Form AP
non-lockout type
without locknut



Form CP
lockout type
without locknut



Material:

Steel version:

Indexing pin hardened:

Threaded sleeve and indexing pin free-cutting steel

Stainless steel version:

Indexing pin hardened:

Threaded sleeve 1.4305

Indexing pin 1.4034.

Mushroom knob black grey thermoplastic.

Thread lock blue polyamide.

Version:

Steel version:

indexing pin hardened, ground and black oxidised.

Stainless steel version:

indexing pin hardened, ground and bright.

Sample order:

K1096.091206

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form CP is recommended for applications where the plunger remains disengaged over a long period and the pin should be prevented from springing back.

The screw lock allows the plunger to be screwed in to the exact depth required, no spacer ring is required. The screw lock is a spotted-on polyamide coating that grips the screw flank.

On request:

Special versions.

Indexing plungers

with thread lock



KIPP Indexing plungers, with thread lock, steel, indexing pin hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1096.91903	K1096.93903	3	M6x0,75	14	31,5	12	5	10	3,5	8	0,8	4,5	10
K1096.91004	K1096.93004	4	M8x1	18	38,5	15	6	13	4	10	1	6	12
K1096.91105	K1096.93105	5	M10x1	21	43,5	17	7	15	5	13	1,3	5	12
K1096.91206	K1096.93206	6	M12x1,5	25	51,7	20	8	17	6	14	1,8	6	14
K1096.91308	K1096.93308	8	M16x1,5	33	68	26	10	23	8	19	2,3	15	35
K1096.91410	K1096.93410	10	M20x1,5	33	74	28	12	25	10	22	2,8	15	34
K1096.91412	K1096.93412	12	M20x1,5	33	78	28	14	25	12	22	2,8	15	39
K1096.91516	K1096.93516	16	M24x2	40	96	32	18	28	16	27	3,2	20	46

KIPP Indexing plungers, with thread lock, stainless steel, indexing pin hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1096.091903	K1096.093903	3	M6x0,75	14	31,5	12	5	10	3,5	8	0,8	4,5	10
K1096.091004	K1096.093004	4	M8x1	18	38,5	15	6	13	4	10	1	6	12
K1096.091105	K1096.093105	5	M10x1	21	43,5	17	7	15	5	13	1,3	5	12
K1096.091206	K1096.093206	6	M12x1,5	25	51,7	20	8	17	6	14	1,8	6	14
K1096.091308	K1096.093308	8	M16x1,5	33	68	26	10	23	8	19	2,3	15	35
K1096.091410	K1096.093410	10	M20x1,5	33	74	28	12	25	10	22	2,8	15	34
K1096.091412	K1096.093412	12	M20x1,5	33	78	28	14	25	12	22	2,8	15	39
K1096.091516	K1096.093516	16	M24x2	40	96	32	18	28	16	27	3,2	20	46

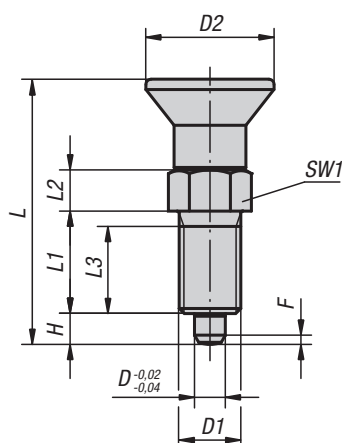


Indexing plungers

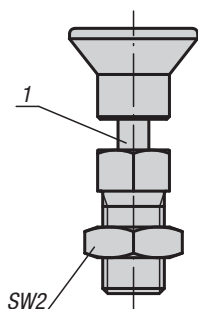
with locked mark



Form A
non-lockout type
without locknut



Form B
non-lockout type
with locknut



Material:

Indexing pin steel.
Threaded sleeve 1.0718.
Mushroom knob black grey thermoplastic.
Lock mark aluminium.

Version:

Indexing pin steel, hardened, ground and black oxidised.
Threaded sleeve black oxidised.
Lock mark red anodised.

Sample order:

K1149.71105

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the plunger has been manually disengaged.

When the lock mark is visible the plunger is either completely disengaged or only partly in the index position.

On request:

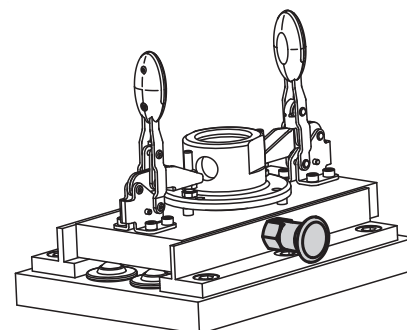
Special versions.

Accessories:

Spacer rings K0665

Drawing reference:

1) marking ring

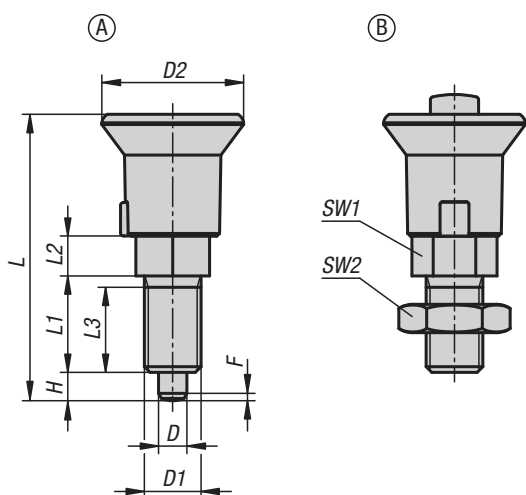


KIPP Indexing plungers with locked mark

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1149.71105	K1149.72105	5	M10x1	21	43,5	17	7	15	5	13	-17	1,3	5	12
K1149.71206	K1149.72206	6	M12x1,5	25	51,7	20	8	17	6	14	-19	1,8	6	14
K1149.71308	K1149.72308	8	M16x1,5	33	68	26	10	23	8	19	-24	2,3	15	35

Indexing plungers

with lock



Material:

Steel version:
threaded sleeve and indexing pin, steel.

Stainless steel version:
indexing pin not hardened.
Threaded sleeve and indexing pin 1.4305.

Mushroom grip, black grey thermoplastic.
Release button, red thermoplastic.

Version:

Steel version:
threaded sleeve, black oxidised.
Indexing pin hardened, ground and black oxidised.

Stainless steel version:
threaded sleeve, bright.
Indexing pin not hardened, ground and bright.

Sample order:

K1213.11051

Note:

Indexing plungers are used where any change in locking position due to lateral forces should be prevented.
The locking mechanism is activated by pressing the push button.
The red release button enables the indexed position to be changed.

Drawing reference:

Form A: without locknut
Form B: with locknut



KIPP Indexing plunger with locking mechanism

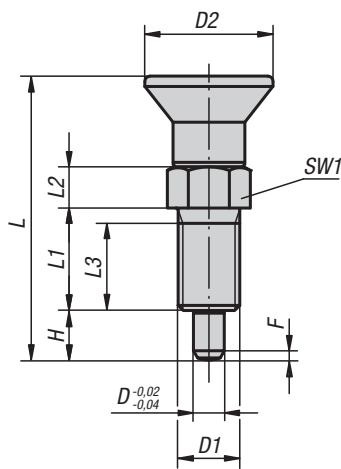
Order No. Form A	Order No. Form B	Main material	Surface finish body	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	return force N
K1213.11051	K1213.21051	steel	hardened	5	M10x1	25	50,5	17	7	15	5	13	-/17	1,3	8-12
K1213.12061	K1213.22061	steel	hardened	6	M12x1,5	25	55,5	20	8	17	6	14	-/19	1,8	4-12
K1213.13081	K1213.23081	steel	hardened	8	M16x1,5	33	76	26	10	23	8	19	-/24	2,3	10-20
K1213.14101	K1213.24101	steel	hardened	10	M20x1,5	33	82	28	12	25	10	22	-/30	2,8	3-23
K1213.111051	K1213.121051	stainless steel	not hardened	5	M10x1	25	50,5	17	7	15	5	13	-/17	1,3	8-12
K1213.112061	K1213.122061	stainless steel	not hardened	6	M12x1,5	25	55,5	20	8	17	6	14	-/19	1,8	4-12
K1213.113081	K1213.123081	stainless steel	not hardened	8	M16x1,5	33	76	26	10	23	8	19	-/24	2,3	10-20
K1213.114101	K1213.124101	stainless steel	not hardened	10	M20x1,5	33	82	28	12	25	10	22	-/30	2,8	3-23

Indexing plungers

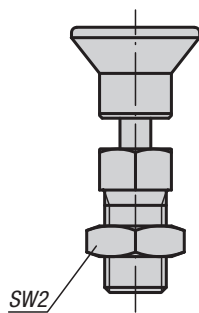
with extended indexing pin



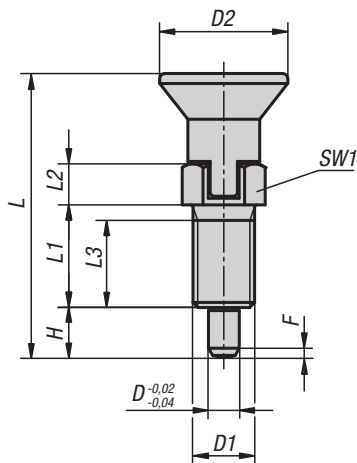
Form A
non-lockout type
without locknut



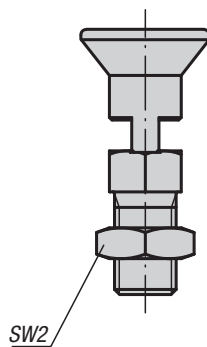
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:

Steel version
Indexing pin hardened:
grade 5.8.

Stainless steel version
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black-grey thermoplastic.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0630.21903

Note:

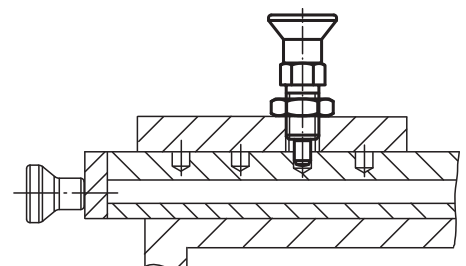
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

On request:

Special versions.

Accessories:

Spacer rings K0665



KIPP Indexing plungers with extended indexing pins, steel, indexing pins hardened

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.21903	K0630.22903	3	M6x0,75	14	33	12	5	10	5	8	-/10	0,8	4,5	12
K0630.21004	K0630.22004	4	M8x1	18	40,5	15	6	13	6	10	-/13	1	6	15
K0630.21105	K0630.22105	5	M10x1	21	46,5	17	7	15	8	13	-/17	1,3	5	16
K0630.21206	K0630.22206	6	M12x1,5	25	54,7	20	8	17	9	14	-/19	1,8	6	18
K0630.21308	K0630.22308	8	M16x1,5	33	72	26	10	23	12	19	-/24	2,3	15	45
K0630.21410	K0630.22410	10	M20x1,5	33	79	28	12	25	15	22	-/30	2,8	15	43
K0630.21412	K0630.22412	12	M20x1,5	33	84	28	14	25	18	22	-/30	2,8	15	51
K0630.21516	K0630.22516	16	M24x2	40	104	32	18	28	24	27	-/36	3,2	20	60

Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.23105	K0630.24105	5	M10x1	21	49,5	17	10	15	8	13	-/17	1,3	5	16
K0630.23206	K0630.24206	6	M12x1,5	25	57,7	20	11	17	9	14	-/19	1,8	6	18
K0630.23308	K0630.24308	8	M16x1,5	33	76	26	14	23	12	19	-/24	2,3	15	45

KIPP Indexing plungers with extended indexing pins, stainless steel, indexing pins hardened

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.201903	K0630.202903	3	M6x0,75	14	33	12	5	10	5	8	-/10	0,8	4,5	12
K0630.201004	K0630.202004	4	M8x1	18	40,5	15	6	13	6	10	-/13	1	6	15
K0630.201105	K0630.202105	5	M10x1	21	46,5	17	7	15	8	13	-/17	1,3	5	16
K0630.201206	K0630.202206	6	M12x1,5	25	54,7	20	8	17	9	14	-/19	1,8	6	18
K0630.201308	K0630.202308	8	M16x1,5	33	72	26	10	23	12	19	-/24	2,3	15	45
K0630.201410	K0630.202410	10	M20x1,5	33	79	28	12	25	15	22	-/30	2,8	15	43
K0630.201412	K0630.202412	12	M20x1,5	33	84	28	14	25	18	22	-/30	2,8	15	51
K0630.201516	K0630.202516	16	M24x2	40	104	32	18	28	24	27	-/36	3,2	20	60

Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.203105	K0630.204105	5	M10x1	21	49,5	17	10	15	8	13	-/17	1,3	5	16
K0630.203206	K0630.204206	6	M12x1,5	25	57,7	20	11	17	9	14	-/19	1,8	6	18
K0630.203308	K0630.204308	8	M16x1,5	33	76	26	14	23	12	19	-/24	2,3	15	45

KIPP Indexing plungers with extended indexing pins, stainless steel, indexing pins not hardened

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.211903	K0630.212903	3	M6x0,75	14	33	12	5	10	5	8	-/10	0,8	4,5	12
K0630.211004	K0630.212004	4	M8x1	18	40,5	15	6	13	6	10	-/13	1	6	15
K0630.211105	K0630.212105	5	M10x1	21	46,5	17	7	15	8	13	-/17	1,3	5	16
K0630.211206	K0630.212206	6	M12x1,5	25	54,7	20	8	17	9	14	-/19	1,8	6	18
K0630.211308	K0630.212308	8	M16x1,5	33	72	26	10	23	12	19	-/24	2,3	15	45
K0630.211410	K0630.212410	10	M20x1,5	33	79	28	12	25	15	22	-/30	2,8	15	43
K0630.211412	K0630.212412	12	M20x1,5	33	84	28	14	25	18	22	-/30	2,8	15	51
K0630.211516	K0630.212516	16	M24x2	40	104	32	18	28	24	27	-/36	3,2	20	60

Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.213105	K0630.214105	5	M10x1	21	49,5	17	10	15	8	13	-/17	1,3	5	16
K0630.213206	K0630.214206	6	M12x1,5	25	57,7	20	11	17	9	14	-/19	1,8	6	18
K0630.213308	K0630.214308	8	M16x1,5	33	76	26	14	23	12	19	-/24	2,3	15	45

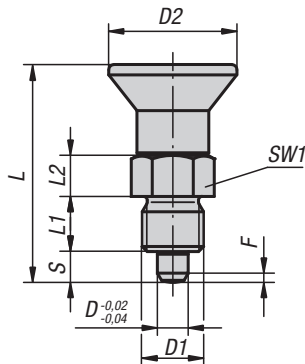


Indexing plungers

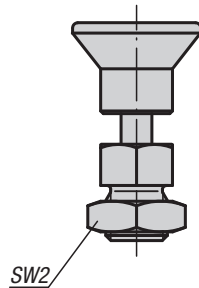
short version



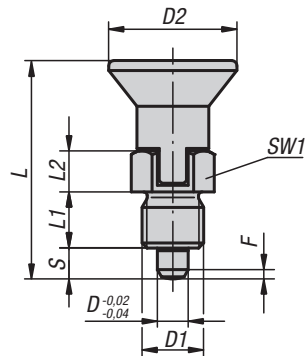
Form A
non-lockout type
without locknut



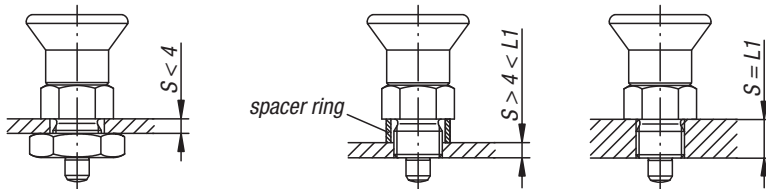
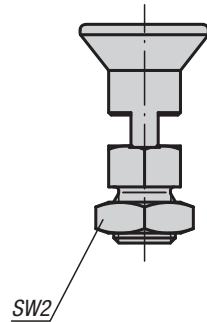
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:

Steel version
Indexing pin hardened:
grade 5.8

Stainless steel version
Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black-grey thermoplastic.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin not hardened, ground, bright.

Sample order:

K0631.16206

Note:

Indexing plungers are used to prevent any change in position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications in which the pin is disengaged over extended periods and should be prevented from springing back.

On request:

Special versions.

Accessories:

Spacer rings K0665

KIPP Indexing plungers, short version, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	Travel S	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.5903	K0631.6903	K0631.7903	K0631.8903	3	M6x0,75	14	25,5	6	5	3,5	8	-/10/-/10	0,8	4	10
K0631.5004	K0631.6004	K0631.7004	K0631.8004	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.5105	K0631.6105	K0631.7105	K0631.8105	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.5206	K0631.6206	K0631.7206	K0631.8206	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.5308	K0631.6308	K0631.7308	K0631.8308	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.5410	K0631.6410	K0631.7410	K0631.8410	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32

KIPP Indexing plungers, short version, stainless steel, indexing pin not hardened

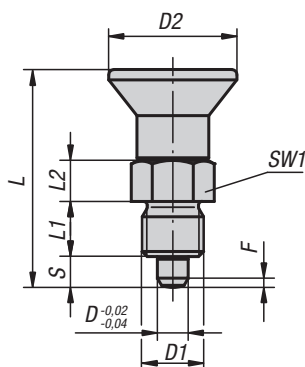
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	Travel S	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.15903	K0631.16903	K0631.17903	K0631.18903	3	M6x0,75	14	25,5	6	5	3,5	8	-/10/-/10	0,8	4	10
K0631.15004	K0631.16004	K0631.17004	K0631.18004	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.15105	K0631.16105	K0631.17105	K0631.18105	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.15206	K0631.16206	K0631.17206	K0631.18206	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.15308	K0631.16308	K0631.17308	K0631.18308	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.15410	K0631.16410	K0631.17410	K0631.18410	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32

Indexing plungers

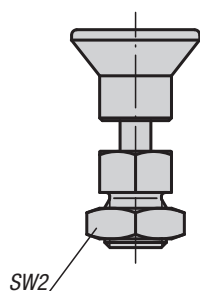
short version



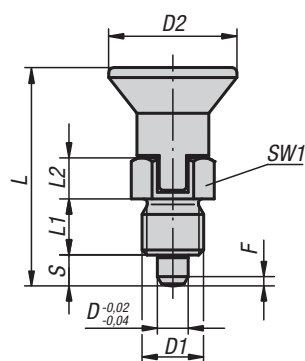
Form A
non-lockout type
without locknut



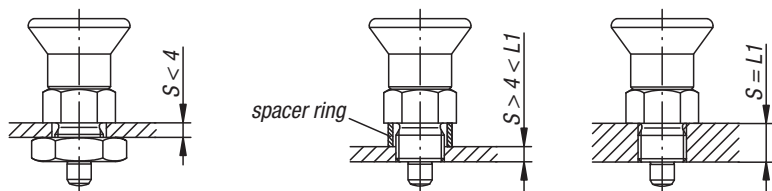
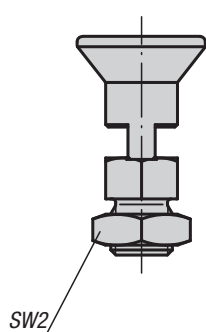
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:

Steel version:
Indexing pin hardened:
steel grade 5.8.

Stainless steel version,
Indexing pin not hardened
Threaded sleeve and indexing pin 1.4305.

Mushroom knob red thermoplastic

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin not hardened, ground, bright.

Sample order:

K0631.1620684

Note:

Indexing plungers are used to prevent any change in position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications in which the pin is disengaged over extended periods and should be prevented from springing back.

On request:

Special versions.

Accessories:

Spacer rings K0665

KIPP Indexing plungers, short version, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	Travel S	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.590384	K0631.690384	K0631.790384	K0631.890384	3	M6x0,75	14	25,5	6	5	3,5	8	-/10-/10	0,8	4	10
K0631.500484	K0631.600484	K0631.700484	K0631.800484	4	M8x1	18	29,5	6	6	4	10	-/13-/13	1	4	12
K0631.510584	K0631.610584	K0631.710584	K0631.810584	5	M10x1	21	34,5	8	7	5	13	-/17-/17	1,3	5	12
K0631.520684	K0631.620684	K0631.720684	K0631.820684	6	M12x1,5	25	41,7	10	8	6	14	-/19-/19	1,8	6	14
K0631.530884	K0631.630884	K0631.730884	K0631.830884	8	M16x1,5	33	54	12	10	8	19	-/24-/24	2,3	14	28
K0631.541084	K0631.641084	K0631.741084	K0631.841084	10	M20x1,5	33	61	15	12	10	22	-/30-/30	2,8	15	32

KIPP Indexing plungers, short version, stainless steel, indexing pin not hardened

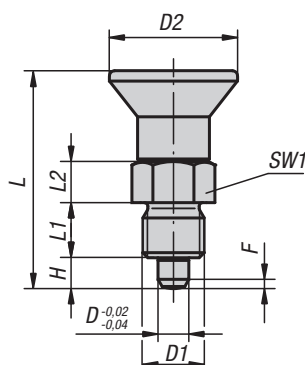
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	Travel S	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.1590384	K0631.1690384	K0631.1790384	K0631.1890384	3	M6x0,75	14	25,5	6	5	3,5	8	-/10-/10	0,8	4	10
K0631.1500484	K0631.1600484	K0631.1700484	K0631.1800484	4	M8x1	18	29,5	6	6	4	10	-/13-/13	1	4	12
K0631.1510584	K0631.1610584	K0631.1710584	K0631.1810584	5	M10x1	21	34,5	8	7	5	13	-/17-/17	1,3	5	12
K0631.1520684	K0631.1620684	K0631.1720684	K0631.1820684	6	M12x1,5	25	41,7	10	8	6	14	-/19-/19	1,8	6	14
K0631.1530884	K0631.1630884	K0631.1730884	K0631.1830884	8	M16x1,5	33	54	12	10	8	19	-/24-/24	2,3	14	28
K0631.1541084	K0631.1641084	K0631.1741084	K0631.1841084	10	M20x1,5	33	61	15	12	10	22	-/30-/30	2,8	15	32

Indexing plungers

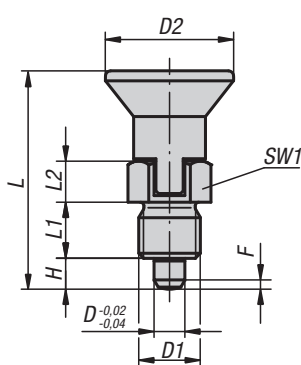
short version, with thread lock



Form AP
non-lockout type
without locknut



Form CP
lockout type
without locknut



Material:

Steel version:

Indexing pin hardened:

Threaded sleeve and indexing pin steel.

Stainless steel version:

Indexing pin not hardened:

Threaded sleeve and indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Thread lock blue polyamide.

Version:

Steel version:

Indexing pin hardened, ground, black oxidised.

Stainless steel version:

Indexing pin not hardened, ground, bright.

Sample order:

K1097.95903

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form CP is recommended for applications where the plunger remains disengaged over a long period and the pin should be prevented from springing back. The screw lock allows the plunger to be screwed in to the exact depth required, no spacer ring is required. The screw lock is a spotted-on polyamide coating that grips the screw flank.

On request:

Special versions.

Accessories:

Spacer rings K0665

Indexing plungers

short version, with thread lock



KIPP Indexing plungers, short version, with thread lock, steel, indexing pin hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	H	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1097.95903	K1097.97903	3	M6x0,75	14	25,5	6	6	3,5	8	0,8	4	10
K1097.95004	K1097.97004	4	M8x1	18	29,5	6	6	4	10	1	4	12
K1097.95105	K1097.97105	5	M10x1	21	34,5	8	7	5	13	1,3	5	12
K1097.95206	K1097.97206	6	M12x1,5	25	41,7	10	8	6	14	1,8	6	14
K1097.95308	K1097.97308	8	M16x1,5	33	54	12	10	8	19	2,3	14	28
K1097.95410	K1097.97410	10	M20x1,5	33	61	15	12	10	22	2,8	15	32

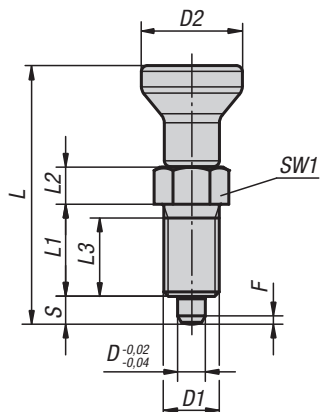
KIPP Indexing plungers, short version, with thread lock, stainless steel, indexing pin not hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	H	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1097.195903	K1097.197903	3	M6x0,75	14	25,5	6	6	3,5	8	0,8	4	10
K1097.195004	K1097.197004	4	M8x1	18	29,5	6	6	4	10	1	4	12
K1097.195105	K1097.197105	5	M10x1	21	34,5	8	7	5	13	1,3	5	12
K1097.195206	K1097.197206	6	M12x1,5	25	41,7	10	8	6	14	1,8	6	14
K1097.195308	K1097.197308	8	M16x1,5	33	54	12	10	8	19	2,3	14	28
K1097.195410	K1097.197410	10	M20x1,5	33	61	15	12	10	22	2,8	15	32

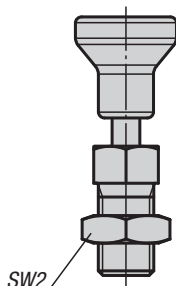
Indexing plungers stainless steel



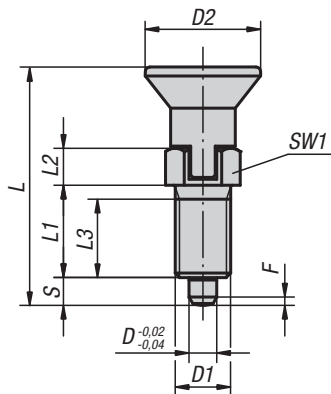
Form A
non-lockout type
without locknut



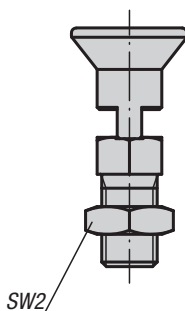
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:

Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob 1.4305, electropolished.

Version:

Bright.
Indexing pin ground.

Sample order:

K0632.001004

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications in which the pin is disengaged over extended periods and should be prevented from springing back.

On request:

Special versions.

Accessories:

Spacer rings K0665

KIPP Indexing plungers stainless steel, indexing pin hardened

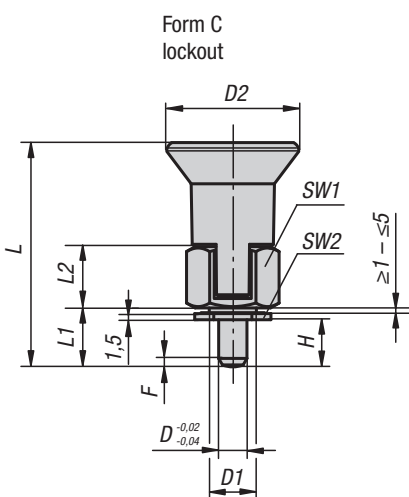
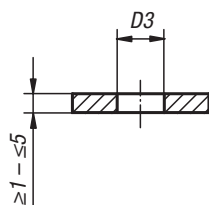
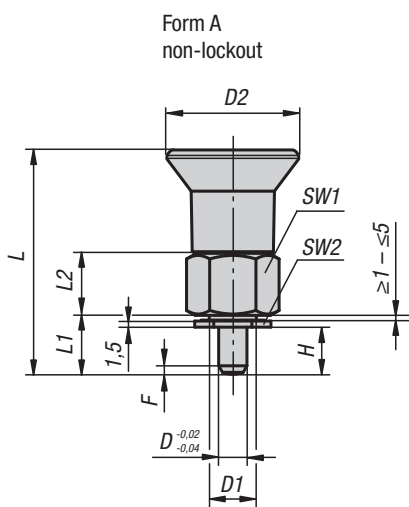
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	Travel S	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0632.001903	K0632.002903	K0632.003903	K0632.004903	3	M6x0,75	14	34,5/34,5/31,5/31,5	12	5	10	3,5	8	-/10-/10	0,8	4,5	10
K0632.001004	K0632.002004	K0632.003004	K0632.004004	4	M8x1	18	43/43/38,5/38,5	15	6	13	4	10	-/13-/13	1	6	12
K0632.001105	K0632.002105	K0632.003105	K0632.004105	5	M10x1	21	50/50/43,5/43,5	17	7	15	5	13	-/17-/17	1,3	5	12
K0632.001206	K0632.002206	K0632.003206	K0632.004206	6	M12x1,5	25	59/59/51,7/51,7	20	8	17	6	14	-/19-/19	1,8	6	14
K0632.001308	K0632.002308	K0632.003308	K0632.004308	8	M16x1,5	33	77/77/68/68	26	10	23	8	19	-/24-/24	2,3	15	35
K0632.001410	K0632.002410	K0632.003410	K0632.004410	10	M20x1,5	33	83/83/74/74	28	12	25	10	22	-/30-/30	2,8	15	34
K0632.001412	K0632.002412	K0632.003412	K0632.004412	12	M20x1,5	33	87/87/78/78	28	14	25	12	22	-/30-/30	2,8	15	39
K0632.001516	K0632.002516	K0632.003516	K0632.004516	16	M24x2	40	106/106/96/96	32	18	28	16	27	-/36-/36	3,2	20	46

KIPP Indexing plungers stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	Travel S	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0632.111903	K0632.112903	K0632.113903	K0632.114903	3	M6x0,75	14	34,5/34,5/31,5/31,5	12	5	10	3,5	8	-/10-/10	0,8	4,5	10
K0632.111004	K0632.112004	K0632.113004	K0632.114004	4	M8x1	18	43/43/38,5/38,5	15	6	13	4	10	-/13-/13	1	6	12
K0632.111105	K0632.112105	K0632.113105	K0632.114105	5	M10x1	21	50/50/43,5/43,5	17	7	15	5	13	-/17-/17	1,3	5	12
K0632.111206	K0632.112206	K0632.113206	K0632.114206	6	M12x1,5	25	59/59/51,7/51,7	20	8	17	6	14	-/19-/19	1,8	6	14
K0632.111308	K0632.112308	K0632.113308	K0632.114308	8	M16x1,5	33	77/77/68/68	26	10	23	8	19	-/24-/24	2,3	15	35
K0632.111410	K0632.112410	K0632.113410	K0632.114410	10	M20x1,5	33	83/83/74/74	28	12	25	10	22	-/30-/30	2,8	15	34
K0632.111412	K0632.112412	K0632.113412	K0632.114412	12	M20x1,5	33	87/87/78/78	28	14	25	12	22	-/30-/30	2,8	15	39
K0632.111516	K0632.112516	K0632.113516	K0632.114516	16	M24x2	40	106/106/96/96	32	18	28	16	27	-/36-/36	3,2	20	46

Indexing plungers

for thin-walled parts



Material:

Steel version
Indexing pin hardened:
grade 5.8

Stainless steel version
Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black-grey thermoplastic.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin not hardened, ground, bright.

Sample order:

K0735.31105 (indexing plunger)
K0631.91416 (double-ended ring spanner)

Note:

These indexing plungers have been specially designed for assembly in thin-walled parts. Indexing plungers are used where any change in locking position due to lateral forces should be prevented. A new locking position can be set only after the pin has been manually disengaged. Form C is recommended for applications where the locking pin should remain disengaged for an extended period and be prevented from springing back.

Accessories:

A double-ended ring spanner can be supplied as an accessory to tighten the nut.



KIPP Indexing plungers for thin-walled parts, steel, indexing pin hardened

Order No.	Form	D	D1	D2	D3	L	L1	L2	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Article number double-ended ring spanner
K0735.31105	A	5	M10x1	28	10	46,5	11,5	13	5-9	17	14	1,3	6	15	K0631.91416
K0735.31206	A	6	M10x1	28	10	47,5	12,5	13	6-10	17	14	1,8	7	19	K0631.91416
K0735.33105	C	5	M10x1	28	10	46,5	11,5	13	5-9	17	14	1,3	6	15	K0631.91416
K0735.33206	C	6	M10x1	28	10	47,5	12,5	13	6-10	17	14	1,8	7	19	K0631.91416

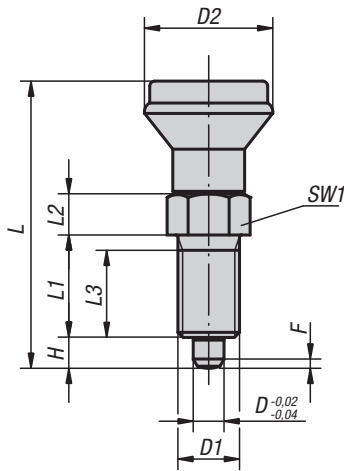
KIPP Indexing plungers for thin-walled parts, stainless steel, indexing pin not hardened

Order No.	Form	D	D1	D2	D3	L	L1	L2	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Article number double-ended ring spanner
K0735.311105	A	5	M10x1	28	10	46,5	11,5	13	5-9	17	14	1,3	6	15	K0631.91416
K0735.311206	A	6	M10x1	28	10	47,5	12,5	13	6-10	17	14	1,8	7	19	K0631.91416
K0735.313105	C	5	M10x1	28	10	46,5	11,5	13	5-9	17	14	1,3	6	15	K0631.91416
K0735.313206	C	6	M10x1	28	10	47,5	12,5	13	6-10	17	14	1,8	7	19	K0631.91416

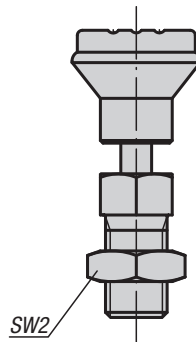
Indexing plungers



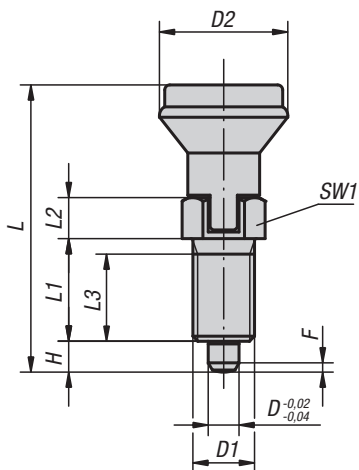
Form A
non-lockout type
without locknut



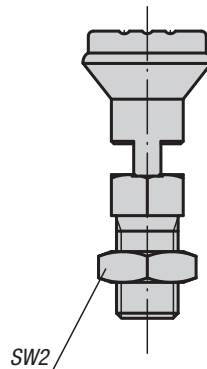
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:

Steel version
Indexing pin hardened:
grade 5.8.

Stainless steel version
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black-grey thermoplastic.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0339.04206

Note:

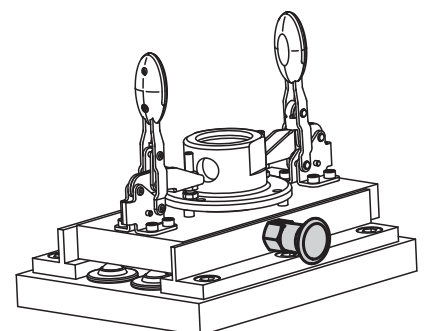
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications in which the pin is disengaged over extended periods and should be prevented from springing back.

On request:

Special versions.

Accessories:

Spacer rings K0665



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0339.1105	K0339.2105	K0339.3105	K0339.4105	5	M10x1	21	47	17	7	15	5	13	-/17-/17	1,3	5	12
K0339.1206	K0339.2206	K0339.3206	K0339.4206	6	M12x1,5	25	56	20	8	17	6	14	-/19-/19	1,8	6	14
K0339.1308	K0339.2308	K0339.3308	K0339.4308	8	M16x1,5	33	74	26	10	23	8	19	-/24-/24	2,3	15	35
K0339.1410	K0339.2410	K0339.3410	K0339.4410	10	M20x1,5	33	80	28	12	25	10	22	-/30-/30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0339.01105	K0339.02105	K0339.03105	K0339.04105	5	M10x1	21	47	17	7	15	5	13	-/17-/17	1,3	5	12
K0339.01206	K0339.02206	K0339.03206	K0339.04206	6	M12x1,5	25	56	20	8	17	6	14	-/19-/19	1,8	6	14
K0339.01308	K0339.02308	K0339.03308	K0339.04308	8	M16x1,5	33	74	26	10	23	8	19	-/24-/24	2,3	15	35
K0339.01410	K0339.02410	K0339.03410	K0339.04410	10	M20x1,5	33	80	28	12	25	10	22	-/30-/30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin not hardened

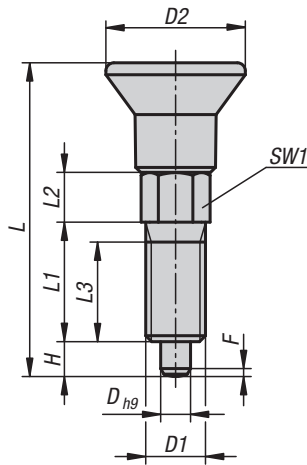
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0339.11105	K0339.12105	K0339.13105	K0339.14105	5	M10x1	21	47	17	7	15	5	13	-/17-/17	1,3	5	12
K0339.11206	K0339.12206	K0339.13206	K0339.14206	6	M12x1,5	25	56	20	8	17	6	14	-/19-/19	1,8	6	14
K0339.11308	K0339.12308	K0339.13308	K0339.14308	8	M16x1,5	33	74	26	10	23	8	19	-/24-/24	2,3	15	35
K0339.11410	K0339.12410	K0339.13410	K0339.14410	10	M20x1,5	33	80	28	12	25	10	22	-/30-/30	2,8	15	34



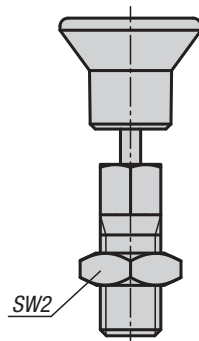
Indexing plungers



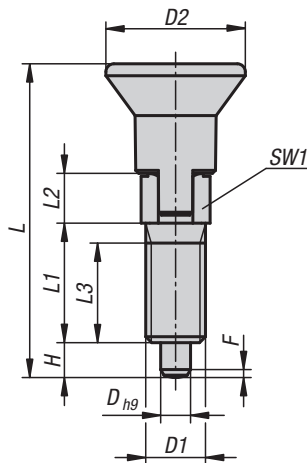
Form A
non-lockout type
without locknut



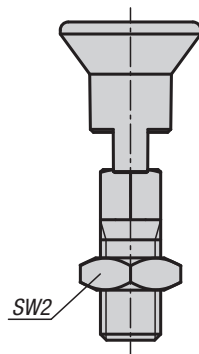
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:

Steel version:
Threaded sleeve 1.0718.
Indexing pin 1.4305.

Stainless steel version:
Threaded sleeve and indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:

Steel version:
Indexing pin hardened.
Threaded sleeve trivalent blue passivated.
Indexing pin bright.

Stainless steel version:
Indexing pin not hardened.
Steel parts bright.

Sample order:
K0747.01903060

Note:

This article is a cost-efficient alternative to the existing indexing plungers. It is suitable for applications which require less precision.
The max. tightening torque should be observed when assembling.

On request:

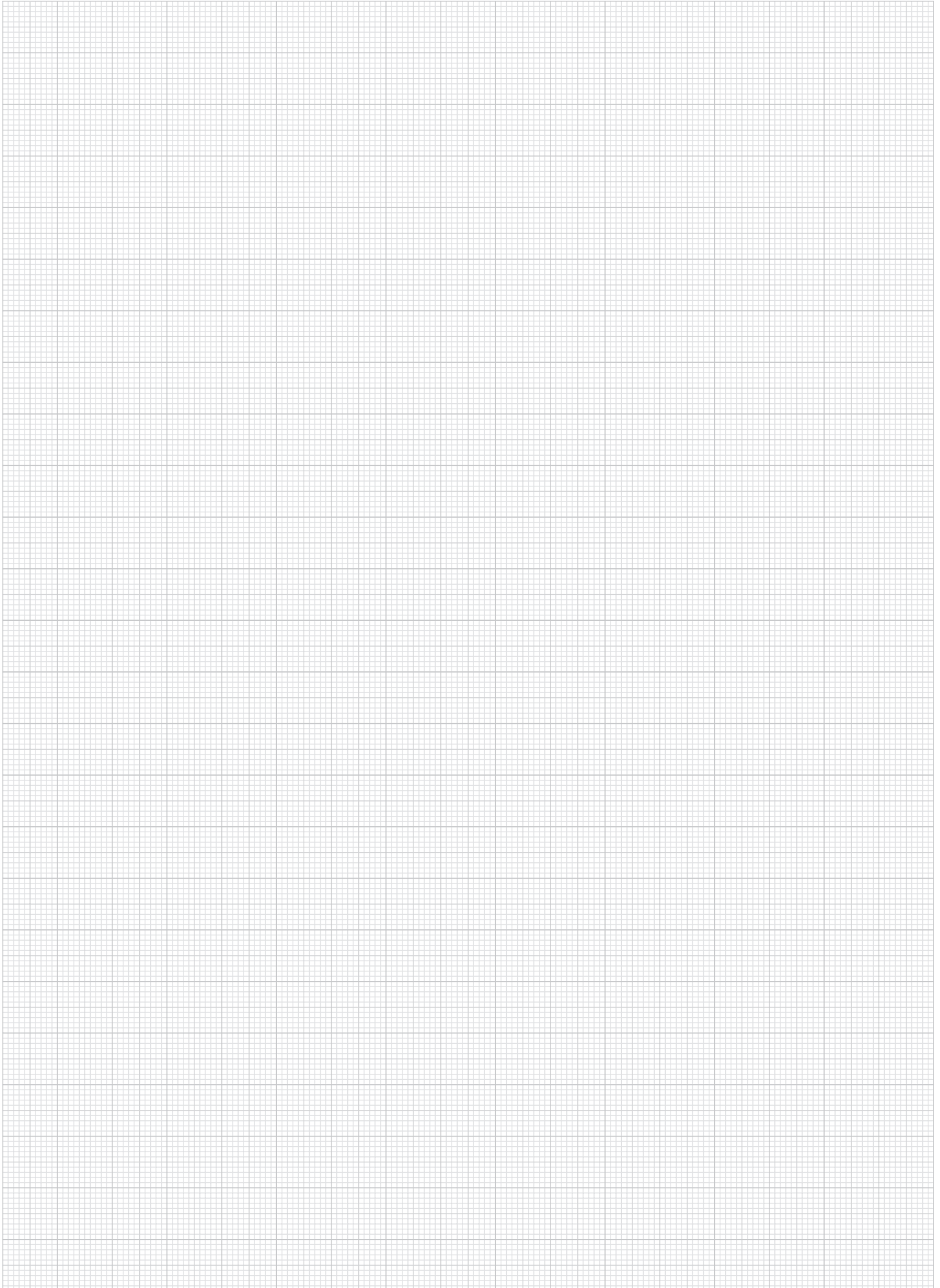
Special versions and fine thread

KIPP Indexing plungers, steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0747.01903060	K0747.02903060	K0747.03903060	K0747.04903060	3	M6	14	31,5	12	5	10	3,5	6	-/10/-/10	0,8	4	10	2
K0747.01004060	K0747.02004060	K0747.03004060	K0747.04004060	4	M6	14	36	15	6	13	4	6	-/10/-/10	1	6	12	2
K0747.01105080	K0747.02105080	K0747.03105080	K0747.04105080	5	M8	14	40	17	7	15	5	8	-/13/-/13	1,3	6	12	7
K0747.01206100	K0747.02206100	K0747.03206100	K0747.04206100	6	M10	18	47,5	20	8	17	6	10	-/17/-/17	1,8	8	15	15
K0747.01308120	K0747.02308120	K0747.03308120	K0747.04308120	8	M12	25	61,7	26	10	23	8	12	-/19/-/19	2,3	8	19	20

KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0747.11903060	K0747.12903060	K0747.13903060	K0747.14903060	3	M6	14	31,5	12	5	10	3,5	6	-/10/-/10	0,8	4	10	2
K0747.11004060	K0747.12004060	K0747.13004060	K0747.14004060	4	M6	14	36	15	6	13	4	6	-/10/-/10	1	6	12	2
K0747.11105080	K0747.12105080	K0747.13105080	K0747.14105080	5	M8	14	40	17	7	15	5	8	-/13/-/13	1,3	6	12	7
K0747.11206100	K0747.12206100	K0747.13206100	K0747.14206100	6	M10	18	47,5	20	8	17	6	10	-/17/-/17	1,8	8	15	15
K0747.11308120	K0747.12308120	K0747.13308120	K0747.14308120	8	M12	25	61,7	26	10	23	8	12	-/19/-/19	2,3	8	19	20



Indexing plungers

with thread lock



Material:

Steel version:

Indexing pin not hardened:

Threaded sleeve 1.0718.

Indexing pin 1.4305.

Stainless steel version:

Indexing pin not hardened:

Threaded sleeve and indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Thread lock blue polyamide.

Version:

Steel version:

Indexing pin hardened.

Threaded sleeve trivalent blue passivated.

Indexing pin bright.

Stainless steel version:

Indexing pin not hardened.

Steel parts bright.

Sample order:

K1098.091903060

Note:

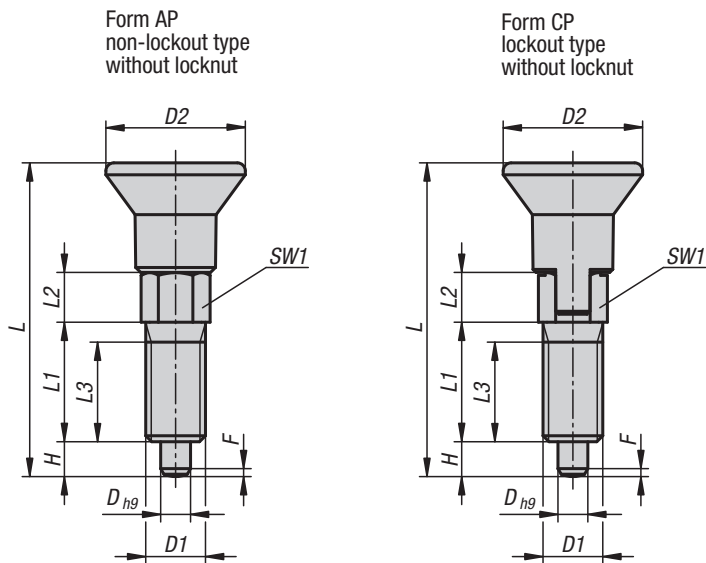
This article is a cost-effective alternative to the existing indexing plungers. It is suitable for applications which require less precision.

The screw lock allows the thread to be screwed in to the exact depth required, no spacer ring is required.

The screw lock is a spotted-on polyamide coating that grips the screw flank. Screw-in and screw-out torques are reference values only.

On request:

Special versions and fine thread



Indexing plungers

with thread lock



KIPP Indexing plungers, with thread lock, steel, indexing pin not hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1098.091903060	K1098.093903060	3	M6	14	31,5	12	5	10	3,5	6	0,8	4	10
K1098.091004060	K1098.093004060	4	M6	14	36	15	6	13	4	6	1	6	12
K1098.091105080	K1098.093105080	5	M8	14	40	17	7	15	5	8	1,3	6	12
K1098.091206100	K1098.093206100	6	M10	18	47,5	20	8	17	6	10	1,8	8	15
K1098.091308120	K1098.093308120	8	M12	25	61,7	26	10	23	8	12	2,3	8	19

KIPP Indexing plungers, with thread lock, stainless steel, indexing pin not hardened

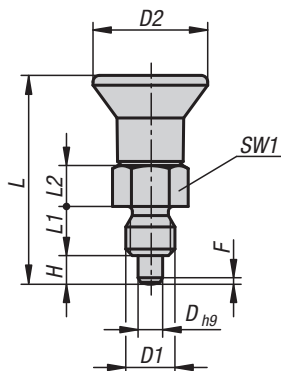
Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1098.191903060	K1098.193903060	3	M6	14	31,5	12	5	10	3,5	6	0,8	4	10
K1098.191004060	K1098.193004060	4	M6	14	36	15	6	13	4	6	1	6	12
K1098.191105080	K1098.193105080	5	M8	14	40	17	7	15	5	8	1,3	6	12
K1098.191206100	K1098.193206100	6	M10	18	47,5	20	8	17	6	10	1,8	8	15
K1098.191308120	K1098.193308120	8	M12	25	61,7	26	10	23	8	12	2,3	8	19

Indexing plungers

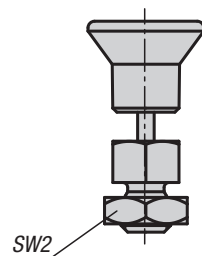
short version



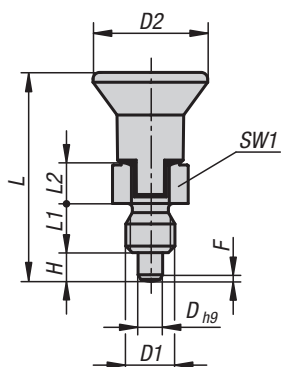
Form A
non-lockout type
without locknut



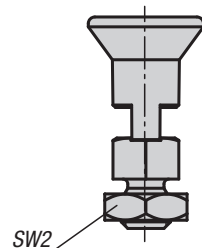
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:

Steel version:
Indexing pin not hardened.
Threaded sleeve 1.0718.
Indexing pin 1.4305.

Stainless steel version:
Indexing pin not hardened.
Threaded sleeve and indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:

Steel version:
Indexing pin hardened.
Threaded sleeve trivalent blue passivated.
Indexing pin bright.

Stainless steel version:
Indexing pin not hardened.
Steel parts bright.

Sample order:
K0748.01903060

Note:
This article is a cost-efficient alternative to the existing indexing plungers. It is suitable for applications which require less precision.
The max. tightening torque should be observed when assembling.

On request:
Special versions.

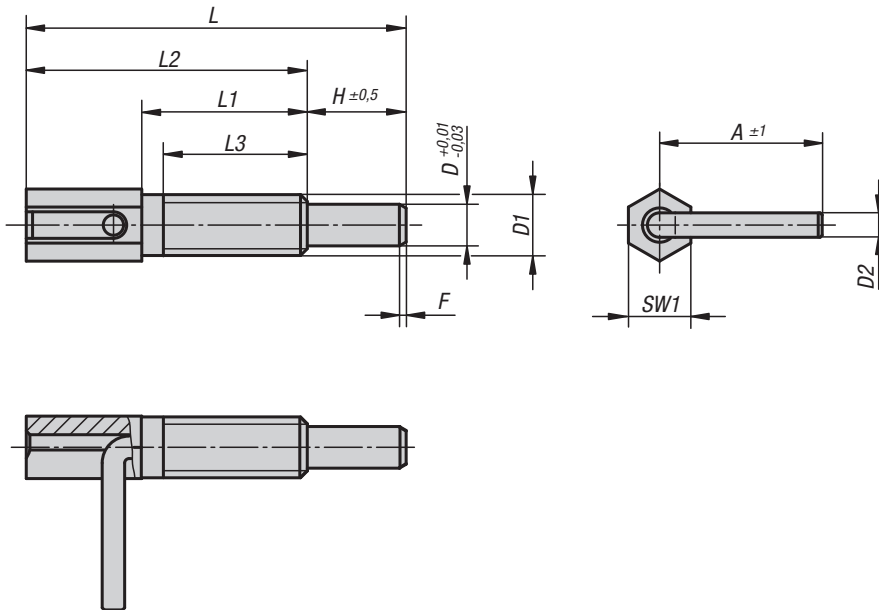
KIPP Indexing plungers short version, steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0748.01903060	K0748.02903060	K0748.03903060	K0748.04903060	3	M6	14	25,5	6	5	3,5	8	-/10/-/10	0,8	3,5	8	2
K0748.01004080	K0748.02004080	K0748.03004080	K0748.04004080	4	M8	18	29,5	6	6	4	10	-/13/-/13	1	3,5	9	2
K0748.01105100	K0748.02105100	K0748.03105100	K0748.04105100	5	M10	21	34,5	8	7	5	13	-/17/-/17	1,3	6	12	7
K0748.01206120	K0748.02206120	K0748.03206120	K0748.04206120	6	M12	25	41,7	10	8	6	14	-/19/-/19	1,8	6	12	15
K0748.01308160	K0748.02308160	K0748.03308160	K0748.04308160	8	M16	33	54	12	10	8	19	-/24/-/24	2,3	6	13	20

KIPP Indexing plungers, short version, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0748.11903060	K0748.12903060	K0748.13903060	K0748.14903060	3	M6	14	25,5	6	5	3,5	8	-/10/-/10	0,8	3,5	8	2
K0748.11004080	K0748.12004080	K0748.13004080	K0748.14004080	4	M8	18	29,5	6	6	4	10	-/13/-/13	1	3,5	9	2
K0748.11105100	K0748.12105100	K0748.13105100	K0748.14105100	5	M10	21	34,5	8	7	5	13	-/17/-/17	1,3	6	12	7
K0748.11206120	K0748.12206120	K0748.13206120	K0748.14206120	6	M12	25	41,7	10	8	6	14	-/19/-/19	1,8	6	12	15
K0748.11308160	K0748.12308160	K0748.13308160	K0748.14308160	8	M16	33	54	12	10	8	19	-/24/-/24	2,3	6	13	20

Indexing plungers



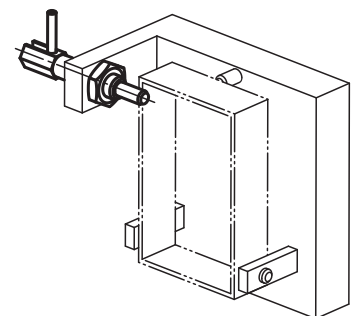
Material:
Steel grade 5.8.

Version:
Trivalent blue passivated.

Sample order:
K0340.1206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

On request:
Special versions.



KIPP Indexing plungers

Order No.	A	D	D1	D2	H	L	L1	L2	L3	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0340.1104	16	4	M6	2,3	9,5	41,5	20	32	17	6	0,7	3	10	1,6
K0340.1905	19	5	M8	3	12	54	27	42	24	8	0,9	3,5	13,5	4,5
K0340.1206	23,5	6	M10	3,5	14	65	33,5	51	30	10	1,1	4	16	10
K0340.1308	31	8	M12	4,7	19	73	31,8	54	28	12	1,3	4	22	13
K0340.1410	33	10	M16	4,7	25	102,5	50,5	77,5	44,5	16	1,6	4	23	42

Indexing plungers

**Material:**

Steel version

Indexing pin hardened:
grade 5.8.

Stainless steel version

Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:

Threaded sleeve 1.4305.
Indexing pin 1.4305.**Version:**

Steel version:

Indexing pin hardened, ground, black oxidised.

Stainless steel version:

Indexing pin hardened, ground and bright.

Indexing pin not hardened, ground and bright.

Sample order:

K0341.02308

Note:

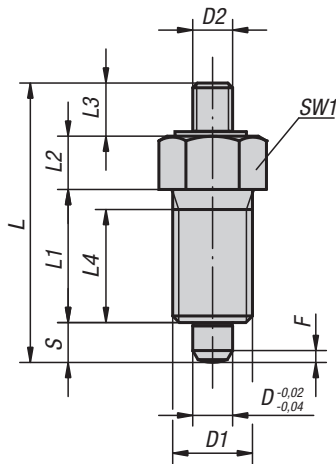
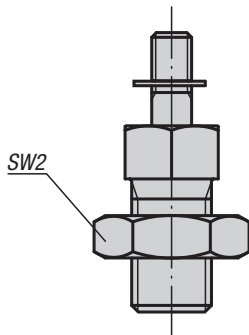
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged. Special grips can be fitted on the projecting threaded pin. This pin is also suitable for automatic actuation e.g. programme controlled pneumatic cylinder or by remote control using bowden cables.

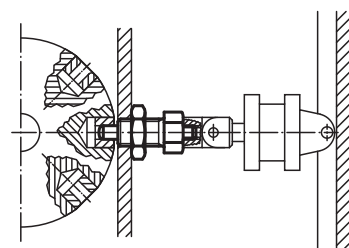
On request:

Special versions.

Accessories:

Spacer rings K0665

Form E
with threaded pin
without locknutForm F
with threaded pin
with locknut



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form E	Order No. Form F	D	D1	D2	L	L1	L2	L3	L4	Travel S	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0341.1903	K0341.2903	3	M6x0,75	M2	24	12	5	3,5	10	3,5	8	- / 10	0,8	4,5	10
K0341.1004	K0341.2004	4	M8x1	M3	32	15	6	7	13	4	10	- / 13	1	6	12
K0341.1105	K0341.2105	5	M10x1	M4	37	17	7	8	15	5	13	- / 17	1,3	5	12
K0341.1206	K0341.2206	6	M12x1,5	M6	42	20	8	8	17	6	14	- / 19	1,8	6	14
K0341.1308	K0341.2308	8	M16x1,5	M8	56	26	10	12	23	8	19	- / 24	2,3	15	35
K0341.1410	K0341.2410	10	M20x1,5	M8	62	28	12	12	25	10	22	- / 30	2,8	15	34
K0341.1412	K0341.2412	12	M20x1,5	M8	66	28	14	12	25	12	22	- / 30	2,8	15	39
K0341.1516	K0341.2516	16	M24x2	M10	80	32	18	14	28	16	27	- / 36	3,2	20	46

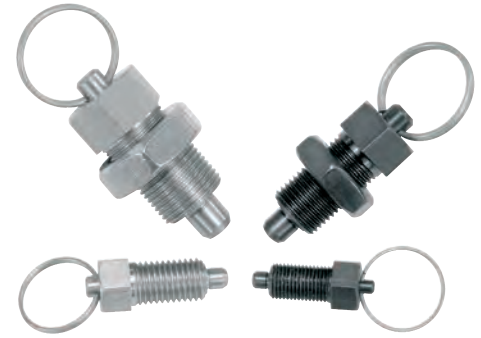
KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form E	Order No. Form F	D	D1	D2	L	L1	L2	L3	L4	Travel S	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0341.01903	K0341.02903	3	M6x0,75	M2	24	12	5	3,5	10	3,5	8	- / 10	0,8	4,5	10
K0341.01004	K0341.02004	4	M8x1	M3	32	15	6	7	13	4	10	- / 13	1	6	12
K0341.01105	K0341.02105	5	M10x1	M4	37	17	7	8	15	5	13	- / 17	1,3	5	12
K0341.01206	K0341.02206	6	M12x1,5	M6	42	20	8	8	17	6	14	- / 19	1,8	6	14
K0341.01308	K0341.02308	8	M16x1,5	M8	56	26	10	12	23	8	19	- / 24	2,3	15	35
K0341.01410	K0341.02410	10	M20x1,5	M8	62	28	12	12	25	10	22	- / 30	2,8	15	34
K0341.01412	K0341.02412	12	M20x1,5	M8	66	28	14	12	25	12	22	- / 30	2,8	15	39
K0341.01516	K0341.02516	16	M24x2	M10	80	32	18	14	28	16	27	- / 36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form E	Order No. Form F	D	D1	D2	L	L1	L2	L3	L4	Travel S	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0341.11903	K0341.12903	3	M6x0,75	M2	24	12	5	3,5	10	3,5	8	- / 10	0,8	4,5	10
K0341.11004	K0341.12004	4	M8x1	M3	32	15	6	7	13	4	10	- / 13	1	6	12
K0341.11105	K0341.12105	5	M10x1	M4	37	17	7	8	15	5	13	- / 17	1,3	5	12
K0341.11206	K0341.12206	6	M12x1,5	M6	42	20	8	8	17	6	14	- / 19	1,8	6	14
K0341.11308	K0341.12308	8	M16x1,5	M8	56	26	10	12	23	8	19	- / 24	2,3	15	35
K0341.11410	K0341.12410	10	M20x1,5	M8	62	28	12	12	25	10	22	- / 30	2,8	15	34
K0341.11412	K0341.12412	12	M20x1,5	M8	66	28	14	12	25	12	22	- / 30	2,8	15	39
K0341.11516	K0341.12516	16	M24x2	M10	80	32	18	14	28	16	27	- / 36	3,2	20	46

Indexing plungers

**Material:**

Steel version
Indexing pin hardened:
grade 5.8.

Stainless steel version
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Key ring 1.4310, bright.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0342.03308

Note:

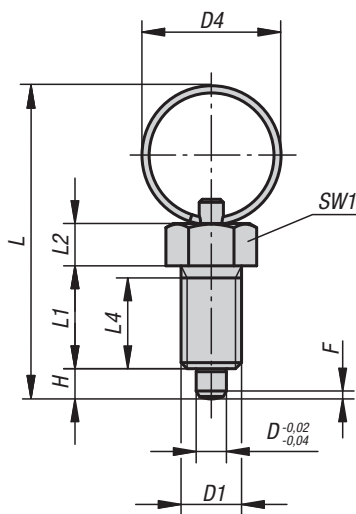
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged. The key ring is also suitable for automatic actuation of the indexing plunger by e.g. program-controlled pneumatic cylinder or by remote control using bowden cables.

On request:

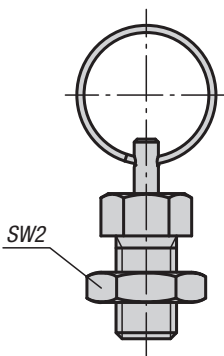
Special versions.

Accessories:

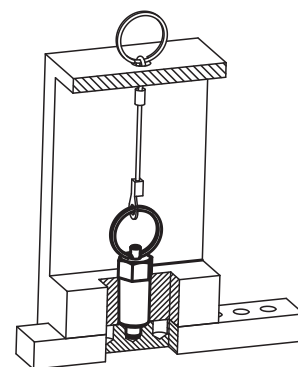
Spacer rings K0665



Form R
without locknut



Form S
with locknut



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form R	Order No. Form S	D	D1	D4	L	L1	L2	L4	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0342.3004	K0342.4004	4	M8x1	15	40	15	6	13	4	10	- / 13	1	6	12
K0342.3105	K0342.4105	5	M10x1	23	52	17	7	15	5	13	- / 17	1,3	5	12
K0342.3206	K0342.4206	6	M12x1,5	23	57	20	8	17	6	14	- / 19	1,8	6	14
K0342.3308	K0342.4308	8	M16x1,5	28	72	26	10	23	8	19	- / 24	2,3	15	35
K0342.3410	K0342.4410	10	M20x1,5	28	78	28	12	25	10	22	- / 30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form R	Order No. Form S	D	D1	D4	L	L1	L2	L4	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0342.03004	K0342.04004	4	M8x1	15	40	15	6	13	4	10	- / 13	1	6	12
K0342.03105	K0342.04105	5	M10x1	23	52	17	7	15	5	13	- / 17	1,3	5	12
K0342.03206	K0342.04206	6	M12x1,5	23	57	20	8	17	6	14	- / 19	1,8	6	14
K0342.03308	K0342.04308	8	M16x1,5	28	72	26	10	23	8	19	- / 24	2,3	15	35
K0342.03410	K0342.04410	10	M20x1,5	28	78	28	12	25	10	22	- / 30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin not hardened

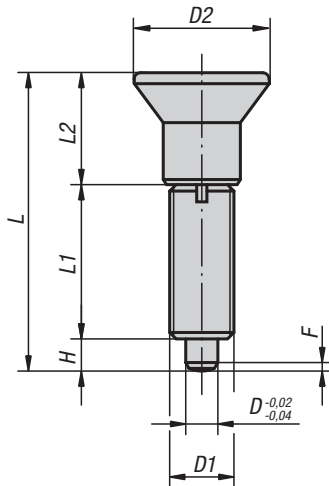
Order No. Form R	Order No. Form S	D	D1	D4	L	L1	L2	L4	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0342.13004	K0342.14004	4	M8x1	15	40	15	6	13	4	10	- / 13	1	6	12
K0342.13105	K0342.14105	5	M10x1	23	52	17	7	15	5	13	- / 17	1,3	5	12
K0342.13206	K0342.14206	6	M12x1,5	23	57	20	8	17	6	14	- / 19	1,8	6	14
K0342.13308	K0342.14308	8	M16x1,5	28	72	26	10	23	8	19	- / 24	2,3	15	35
K0342.13410	K0342.14410	10	M20x1,5	28	78	28	12	25	10	22	- / 30	2,8	15	34

Indexing plungers

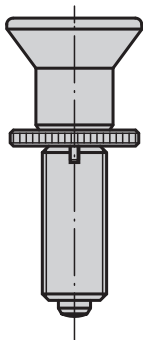
without collar



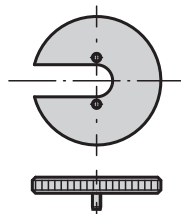
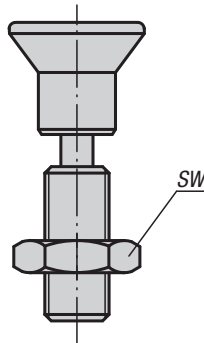
Form G
without locknut



Indexing plunger
with screw-in washer



Form H
with locknut



Material:

Steel version
Indexing pin hardened:
grade 5.8.

Stainless steel version
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black-grey thermoplastic.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0343.02206

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

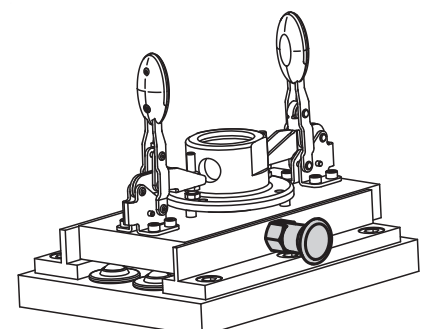
A washer is available to aid by screwing in the indexing plungers. The washer slides beneath the mushroom knob so that the carrier pins engage in the slot.

On request:

Special versions.

Accessories:

Spacer rings K0665



Indexing plungers

without collar



KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0343.1903	K0343.2903	3	M6x0,75	14	31,5	17	11	3,5	- / 10	0,8	4,5	10	K0344.99
K0343.1004	K0343.2004	4	M8x1	18	38,5	21	13,5	4	- / 13	1,3	6	12	K0344.90
K0343.1105	K0343.2105	5	M10x1	21	43,5	24	14,5	5	- / 17	1,3	5	12	K0344.91
K0343.1206	K0343.2206	6	M12x1,5	25	51,7	28	17,7	6	- / 19	1,8	6	14	K0344.92
K0343.1308	K0343.2308	8	M16x1,5	33	68	36	24	8	- / 24	2,3	15	35	K0344.93
K0343.1410	K0343.2410	10	M20x1,5	33	74	40	24	10	- / 30	2,8	15	34	K0344.94
K0343.1412	K0343.2412	12	M20x1,5	33	78	42	24	12	- / 30	2,8	15	39	K0344.94
K0343.1516	K0343.2516	16	M24x2	40	96	50	30	16	- / 36	3,2	20	46	K0344.95

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0343.01903	K0343.02903	3	M6x0,75	14	31,5	17	11	3,5	- / 10	0,8	4,5	10	K0344.99
K0343.01004	K0343.02004	4	M8x1	18	38,5	21	13,5	4	- / 13	1,3	6	12	K0344.90
K0343.01105	K0343.02105	5	M10x1	21	43,5	24	14,5	5	- / 17	1,3	5	12	K0344.91
K0343.01206	K0343.02206	6	M12x1,5	25	51,7	28	17,7	6	- / 19	1,8	6	14	K0344.92
K0343.01308	K0343.02308	8	M16x1,5	33	68	36	24	8	- / 24	2,3	15	35	K0344.93
K0343.01410	K0343.02410	10	M20x1,5	33	74	40	24	10	- / 30	2,8	15	34	K0344.94
K0343.01412	K0343.02412	12	M20x1,5	33	78	42	24	12	- / 30	2,8	15	39	K0344.94
K0343.01516	K0343.02516	16	M24x2	40	96	50	30	16	- / 36	3,2	20	46	K0344.95

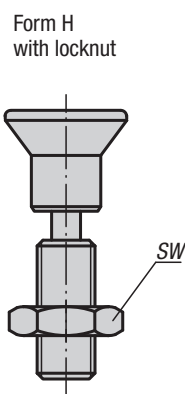
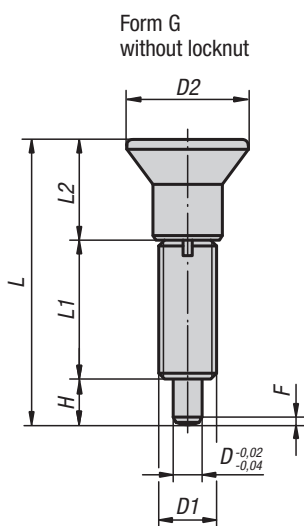
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0343.11903	K0343.12903	3	M6x0,75	14	31,5	17	11	3,5	- / 10	0,8	4,5	10	K0344.99
K0343.11004	K0343.12004	4	M8x1	18	38,5	21	13,5	4	- / 13	1,3	6	12	K0344.90
K0343.11105	K0343.12105	5	M10x1	21	43,5	24	14,5	5	- / 17	1,3	5	12	K0344.91
K0343.11206	K0343.12206	6	M12x1,5	25	51,7	28	17,7	6	- / 19	1,8	6	14	K0344.92
K0343.11308	K0343.12308	8	M16x1,5	33	68	36	24	8	- / 24	2,3	15	35	K0344.93
K0343.11410	K0343.12410	10	M20x1,5	33	74	40	24	10	- / 30	2,8	15	34	K0344.94
K0343.11412	K0343.12412	12	M20x1,5	33	78	42	24	12	- / 30	2,8	15	39	K0344.94
K0343.11516	K0343.12516	16	M24x2	40	96	50	30	16	- / 36	3,2	20	46	K0344.95

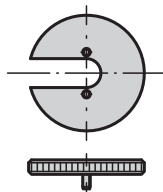
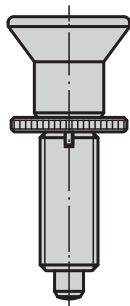


Indexing plungers

without collar with extended indexing pin



Indexing plunger
with screw-in washer



Material:

Steel version
Indexing pin hardened:
grade 5.8.

Stainless steel version
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black-grey thermoplastic.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0633.21004

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

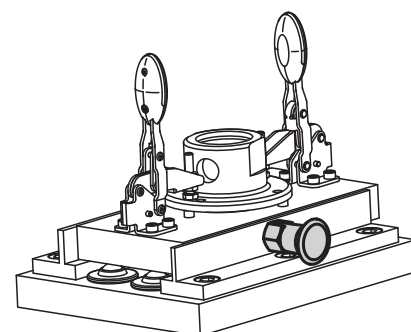
A washer is available to aid by screwing in the indexing plungers. The washer slides beneath the mushroom knob so that the carrier pins engage in the slot.

On request:

Special versions.

Accessories:

Spacer rings K0665



Indexing plungers

without collar with extended indexing pin

KIPP Indexing plungers without collar with extended indexing pin, steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0633.21903	K0633.22903	3	M6x0,75	14	33	17	11	5	- / 10	0,8	4,5	12	K0344.99
K0633.21004	K0633.22004	4	M8x1	18	40,5	21	13,5	6	- / 13	1	6	15	K0344.90
K0633.21105	K0633.22105	5	M10x1	21	46,5	24	14,5	8	- / 17	1,3	5	16	K0344.91
K0633.21206	K0633.22206	6	M12x1,5	25	54,7	28	17,7	9	- / 19	1,8	6	18	K0344.92
K0633.21308	K0633.22308	8	M16x1,5	33	72	36	24	12	- / 24	2,3	15	45	K0344.93
K0633.21410	K0633.22410	10	M20x1,5	33	79	40	24	15	- / 30	2,8	15	43	K0344.94
K0633.21412	K0633.22412	12	M20x1,5	33	84	42	24	18	- / 30	2,8	15	51	K0344.94
K0633.21516	K0633.22516	16	M24x2	40	104	50	30	24	- / 36	3,2	20	60	K0344.95

KIPP Indexing plungers without collar with extended indexing pin, stainless steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0633.201903	K0633.202903	3	M6x0,75	14	33	17	11	5	- / 10	0,8	4,5	12	K0344.99
K0633.201004	K0633.202004	4	M8x1	18	40,5	21	13,5	6	- / 13	1	6	15	K0344.90
K0633.201105	K0633.202105	5	M10x1	21	46,5	24	14,5	8	- / 17	1,3	5	16	K0344.91
K0633.201206	K0633.202206	6	M12x1,5	25	54,7	28	17,7	9	- / 19	1,8	6	18	K0344.92
K0633.201308	K0633.202308	8	M16x1,5	33	72	36	24	12	- / 24	2,3	15	45	K0344.93
K0633.201410	K0633.202410	10	M20x1,5	33	79	40	24	15	- / 30	2,8	15	43	K0344.94
K0633.201412	K0633.202412	12	M20x1,5	33	84	42	24	18	- / 30	2,8	15	51	K0344.94
K0633.201516	K0633.202516	16	M24x2	40	104	50	30	24	- / 36	3,2	20	60	K0344.95

KIPP Indexing plungers without collar with extended indexing pin, stainless steel, indexing pin not hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0633.211903	K0633.212903	3	M6x0,75	14	33	17	11	5	- / 10	0,8	4,5	12	K0344.99
K0633.211004	K0633.212004	4	M8x1	18	40,5	21	13,5	6	- / 13	1	6	15	K0344.90
K0633.211105	K0633.212105	5	M10x1	21	46,5	24	14,5	8	- / 17	1,3	5	16	K0344.91
K0633.211206	K0633.212206	6	M12x1,5	25	54,7	28	17,7	9	- / 19	1,8	6	18	K0344.92
K0633.211308	K0633.212308	8	M16x1,5	33	72	36	24	12	- / 24	2,3	15	45	K0344.93
K0633.211410	K0633.212410	10	M20x1,5	33	79	40	24	15	- / 30	2,8	15	43	K0344.94
K0633.211412	K0633.212412	12	M20x1,5	33	84	42	24	18	- / 30	2,8	15	51	K0344.94
K0633.211516	K0633.212516	16	M24x2	40	104	50	30	24	- / 36	3,2	20	60	K0344.95

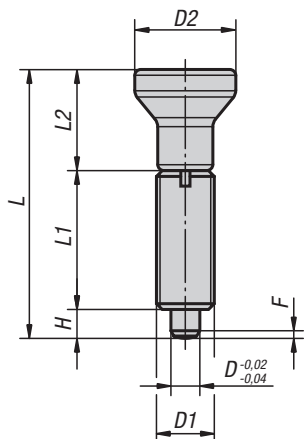


Indexing plungers

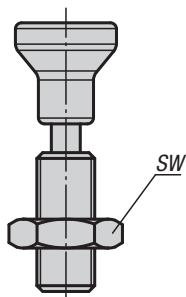
stainless steel without collar



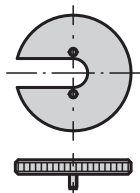
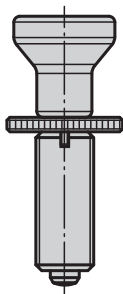
Form G
without locknut



Form H
with locknut



Indexing plunger
with screw-in washer



Material:

Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob 1.4305, electropolished.

Version:

Bright.
Indexing pin ground.

Sample order:

K0634.001004

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

A screw-in washer can be supplied to help screw the indexing plungers in. The washer slides beneath the disengaged mushroom knob so that the follower pins engage in the slot.

On request:

Special versions.

Accessories:

Spacer rings K0665

KIPP Indexing plungers stainless steel without collar, indexing pin hardened

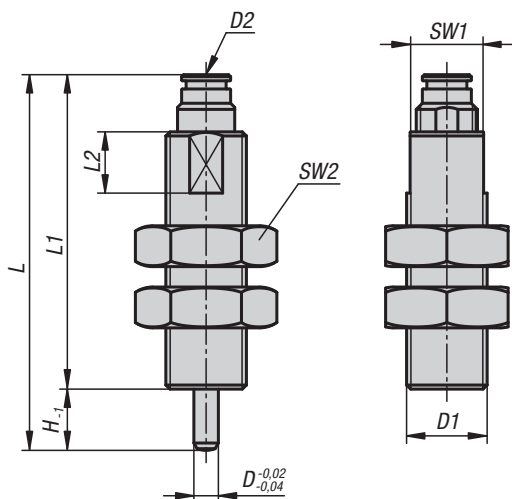
Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0634.001903	K0634.002903	3	M6x0,75	14	34,5	17	14	3,5	-/10	0,8	4,5	10	K0344.99
K0634.001004	K0634.002004	4	M8x1	18	43	21	18	4	-/13	1	6	12	K0344.90
K0634.001105	K0634.002105	5	M10x1	21	50	24	21	5	-/17	1,3	5	12	K0344.91
K0634.001206	K0634.002206	6	M12x1,5	25	59	28	25	6	-/19	1,8	6	14	K0344.92
K0634.001308	K0634.002308	8	M16x1,5	33	77	36	33	8	-/24	2,3	15	35	K0344.93
K0634.001410	K0634.002410	10	M20x1,5	33	83	40	33	10	-/30	2,8	15	34	K0344.94
K0634.001412	K0634.002412	12	M20x1,5	33	87	42	33	12	-/30	2,8	15	39	K0344.94
K0634.001516	K0634.002516	16	M24x2	40	106	50	40	16	-/36	3,2	20	46	K0344.95

KIPP Indexing plungers stainless steel without collar, indexing pin not hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0634.111903	K0634.112903	3	M6x0,75	14	34,5	17	14	3,5	-/10	0,8	4,5	10	K0344.99
K0634.111004	K0634.112004	4	M8x1	18	43	21	18	4	-/13	1	6	12	K0344.90
K0634.111105	K0634.112105	5	M10x1	21	50	24	21	5	-/17	1,3	5	12	K0344.91
K0634.111206	K0634.112206	6	M12x1,5	25	59	28	25	6	-/19	1,8	6	14	K0344.92
K0634.111308	K0634.112308	8	M16x1,5	33	77	36	33	8	-/24	2,3	15	35	K0344.93
K0634.111410	K0634.112410	10	M20x1,5	33	83	40	33	10	-/30	2,8	15	34	K0344.94
K0634.111412	K0634.112412	12	M20x1,5	33	87	42	33	12	-/30	2,8	15	39	K0344.94
K0634.111516	K0634.112516	16	M24x2	40	106	50	40	16	-/36	3,2	20	46	K0344.95

Indexing plungers

pneumatic



Material:

Steel version:
threaded sleeve and thrust pin, free-cutting steel.
hexagon nuts, steel, grade 04.

Stainless steel version:
threaded sleeve 1.4305
thrust pin 1.4034
hexagon nuts, A2 stainless steel.

Version:

Steel version:
threaded sleeve, black oxidised
thrust pin hardened, black oxidised and ground
hexagon nuts, black oxidised

Stainless steel version:
threaded sleeve, bright
thrust pin, hardened, ground and bright
hexagon nuts, bright

Sample order:

K1116.1206010

Note:

The indexing plungers are operated by applying compressed air.
The spring-loaded reset occurs by disconnecting the air supply.

Pneumatic cylinder:

Single-acting piston rod cylinder.

Materials:
cylinder tube, nickel-plated brass,
piston rod, stainless steel
seals, NBR, PU.

Operating medium:
filtered and dried air, oiled or not oiled.
Application temperature: -20 °C to +80 °C.



KIPP Indexing plungers, pneumatic

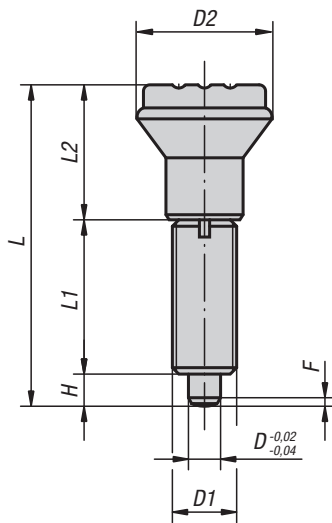
Order No. steel	Order No. stainless steel	D	D1	D2	H	L	L1	L2	SW1	SW2	Operating pressure bar	Piston force at 6 bar (N)	Spring retraction force ca. N
K1116.1308010	K1116.01308010	8	M20x1,5	M5	10	77	67	15	18	30	2 - 6	39,6-35,3	11,6-5,1
K1116.1206010	K1116.01206010	6	M20x1,5	M5	10	80	70	15	18	30	2 - 6	38,7-35,1	9,9-6
K1116.1308015	K1116.01308015	8	M20x1,5	M5	15	89	74	15	18	30	2 - 6	39,6-33,1	11,6-5,1
K1116.1206015	K1116.01206015	6	M20x1,5	M5	15	92	77	15	18	30	2 - 6	38,7-32,9	11,8-6

Indexing plungers

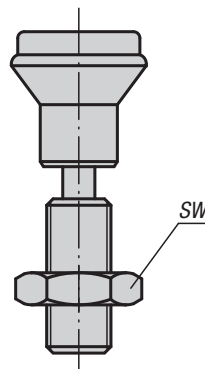
without collar



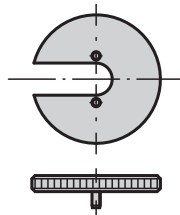
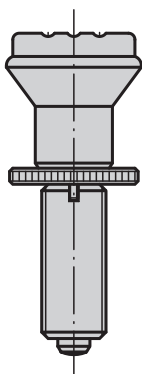
Form G
without locknut



Form H
with locknut



Indexing plunger
with screw-in washer



Material:

Steel version

Indexing pin hardened:
grade 5.8.

Stainless steel version

Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:

Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black-grey thermoplastic.

Version:

Steel version:

Indexing pin hardened, ground, black oxidised.

Stainless steel version:

Indexing pin hardened, ground and bright.

Indexing pin not hardened, ground and bright.

Sample order:

K0344.02206

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

A screw-in washer can be supplied to help screw in the indexing plungers. The washer is slid beneath the disengaged mushroom knob so that the carrier pins engage in the slot.

On request:

Special versions.

Accessories:

Spacer rings K0665

Indexing plungers

without collar



KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0344.1105	K0344.2105	5	M10x1	21	47	24	18	5	-/17	1,3	5	12	K0344.91
K0344.1206	K0344.2206	6	M12x1,5	25	56	28	22	6	-/19	1,8	6	14	K0344.92
K0344.1308	K0344.2308	8	M16x1,5	33	74	36	30	8	-/24	2,3	15	35	K0344.93
K0344.1410	K0344.2410	10	M20x1,5	33	80	40	30	10	-/30	2,8	15	34	K0344.94

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0344.01105	K0344.02105	5	M10x1	21	47	24	18	5	-/17	1,3	5	12	K0344.91
K0344.01206	K0344.02206	6	M12x1,5	25	56	28	22	6	-/19	1,8	6	14	K0344.92
K0344.01308	K0344.02308	8	M16x1,5	33	74	36	30	8	-/24	2,3	15	35	K0344.93
K0344.01410	K0344.02410	10	M20x1,5	33	80	40	30	10	-/30	2,8	15	34	K0344.94

KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0344.11105	K0344.12105	5	M10x1	21	47	24	18	5	-/17	1,3	5	12	K0344.91
K0344.11206	K0344.12206	6	M12x1,5	25	56	28	22	6	-/19	1,8	6	14	K0344.92
K0344.11308	K0344.12308	8	M16x1,5	33	74	36	30	8	-/24	2,3	15	35	K0344.93
K0344.11410	K0344.12410	10	M20x1,5	33	80	40	30	10	-/30	2,8	15	34	K0344.94



Indexing plungers

without collar

**Material:**

Steel version
Indexing pin hardened:
grade 5.8.

Stainless steel version
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0345.01206

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged.

Special grips can be fitted on the projecting threaded pin. This pin is also suitable for automatic actuation by e.g. program controlled pneumatic cylinder or by remote control using bowden cables.

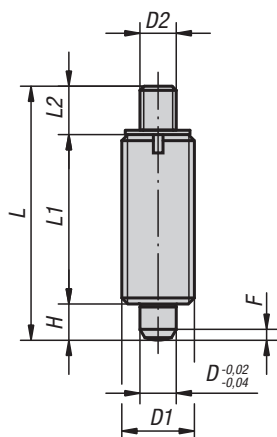
A washer is available to aid screwing in the indexing plungers. The washer is placed on the threaded sleeve so that the carrier pins engage in the slot.

On request:

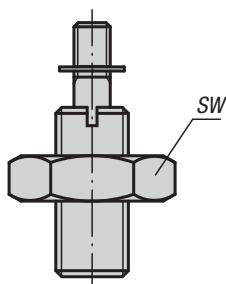
Special versions.

Accessories:

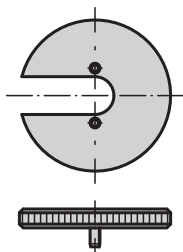
Spacer rings K0665



Form J
with threaded pin
without locknut



Form K
with threaded pin
with locknut



Indexing plungers

without collar



KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form J	Order No. Form K	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0345.1903	K0345.2903	3	M6x0,75	M2	24	17	3,5	3,5	-/10	0,8	4,5	10	K0344.99
K0345.1004	K0345.2004	4	M8x1	M3	32	21	7	4	-/13	1	6	12	K0344.90
K0345.1105	K0345.2105	5	M10x1	M4	37	24	8	5	-/17	1,3	5	12	K0344.91
K0345.1206	K0345.2206	6	M12x1,5	M6	42	28	8	6	-/19	1,8	6	14	K0344.92
K0345.1308	K0345.2308	8	M16x1,5	M8	56	36	12	8	-/24	2,3	15	35	K0344.93
K0345.1410	K0345.2410	10	M20x1,5	M8	62	40	12	10	-/30	2,8	15	34	K0344.94
K0345.1412	K0345.2412	12	M20x1,5	M8	66	42	12	12	-/30	2,8	15	39	K0344.94
K0345.1516	K0345.2516	16	M24x2	M10	80	50	14	16	-/36	3,2	20	46	K0344.95

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form J	Order No. Form K	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0345.01903	K0345.02903	3	M6x0,75	M2	24	17	3,5	3,5	-/10	0,8	4,5	10	K0344.99
K0345.01004	K0345.02004	4	M8x1	M3	32	21	7	4	-/13	1	6	12	K0344.90
K0345.01105	K0345.02105	5	M10x1	M4	37	24	8	5	-/17	1,3	5	12	K0344.91
K0345.01206	K0345.02206	6	M12x1,5	M6	42	28	8	6	-/19	1,8	6	14	K0344.92
K0345.01308	K0345.02308	8	M16x1,5	M8	56	36	12	8	-/24	2,3	15	35	K0344.93
K0345.01410	K0345.02410	10	M20x1,5	M8	62	40	12	10	-/30	2,8	15	34	K0344.94
K0345.01412	K0345.02412	12	M20x1,5	M8	66	42	12	12	-/30	2,8	15	39	K0344.94
K0345.01516	K0345.02516	16	M24x2	M10	80	50	14	16	-/36	3,2	20	46	K0344.95

KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form J	Order No. Form K	D	D1	D2	L	L1	L2	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0345.11903	K0345.12903	3	M6x0,75	M2	24	17	3,5	3,5	-/10	0,8	4,5	10	K0344.99
K0345.11004	K0345.12004	4	M8x1	M3	32	21	7	4	-/13	1	6	12	K0344.90
K0345.11105	K0345.12105	5	M10x1	M4	37	24	8	5	-/17	1,3	5	12	K0344.91
K0345.11206	K0345.12206	6	M12x1,5	M6	42	28	8	6	-/19	1,8	6	14	K0344.92
K0345.11308	K0345.12308	8	M16x1,5	M8	56	36	12	8	-/24	2,3	15	35	K0344.93
K0345.11410	K0345.12410	10	M20x1,5	M8	62	40	12	10	-/30	2,8	15	34	K0344.94
K0345.11412	K0345.12412	12	M20x1,5	M8	66	42	12	12	-/30	2,8	15	39	K0344.94
K0345.11516	K0345.12516	16	M24x2	M10	80	50	14	16	-/36	3,2	20	46	K0344.95



Indexing plungers

without collar

**Material:**

Steel version
Indexing pin hardened:
grade 5.8.

Stainless steel version
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Key ring 1.4310, bright.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0635.03206

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged.

The key ring is also suitable for actuation of the indexing plungers e.g. automatically (program-controlled) with the aid of a pneumatic cylinder or remote control with bowden cables.

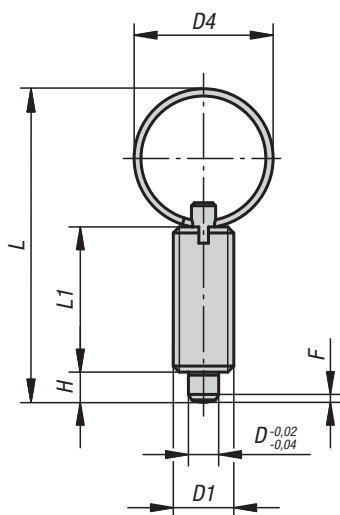
A screw-in washer can be supplied to help screw in the indexing plungers. The washer is fitted onto the threaded sleeve so that the carrier pins engage in the slot.

On request:

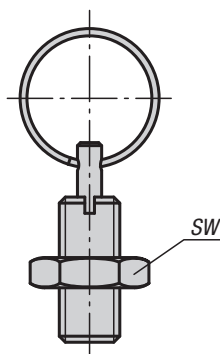
Special versions.

Accessories:

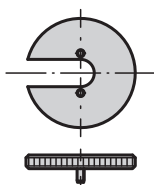
Spacer rings K0665



Form T
without locknut



Form U
with locknut



Indexing plungers

without collar



KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form T	Order No. Form U	D	D1	D4	L	L1	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0635.3004	K0635.4004	4	M8x1	15	40	21	4	-13	1	6	12	K0344.90
K0635.3105	K0635.4105	5	M10x1	23	52	24	5	-17	1,3	5	12	K0344.91
K0635.3206	K0635.4206	6	M12x1,5	23	57	28	6	-19	1,8	6	14	K0344.92
K0635.3308	K0635.4308	8	M16x1,5	28	72	36	8	-24	2,3	15	35	K0344.93
K0635.3410	K0635.4410	10	M20x1,5	28	78	40	10	-30	2,8	15	34	K0344.94

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form T	Order No. Form U	D	D1	D4	L	L1	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0635.03004	K0635.04004	4	M8x1	15	40	21	4	-13	1	6	12	K0344.90
K0635.03105	K0635.04105	5	M10x1	23	52	24	5	-17	1,3	5	12	K0344.91
K0635.03206	K0635.04206	6	M12x1,5	23	57	28	6	-19	1,8	6	14	K0344.92
K0635.03308	K0635.04308	8	M16x1,5	28	72	36	8	-24	2,3	15	35	K0344.93
K0635.03410	K0635.04410	10	M20x1,5	28	78	40	10	-30	2,8	15	34	K0344.94

KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form T	Order No. Form U	D	D1	D4	L	L1	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0635.13004	K0635.14004	4	M8x1	15	40	21	4	-13	1	6	12	K0344.90
K0635.13105	K0635.14105	5	M10x1	23	52	24	5	-17	1,3	5	12	K0344.91
K0635.13206	K0635.14206	6	M12x1,5	23	57	28	6	-19	1,8	6	14	K0344.92
K0635.13308	K0635.14308	8	M16x1,5	28	72	36	8	-24	2,3	15	35	K0344.93
K0635.13410	K0635.14410	10	M20x1,5	28	78	40	10	-30	2,8	15	34	K0344.94



Indexing plungers

without collar

**Material:**

Steel version:
Indexing pin hardened:
Sleeve 1.0403 weldable.
Indexing pin grade 5.8.

Stainless steel version:
Indexing pin hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4034.

Indexing pin not hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0346.01206

Note:

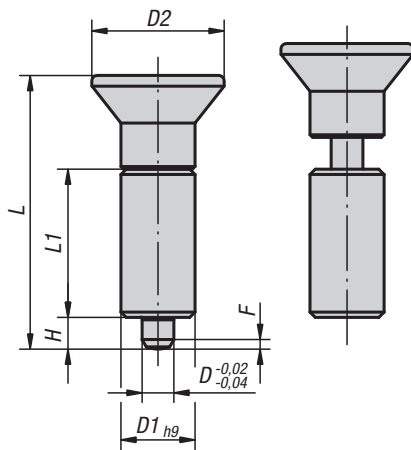
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

Form M is recommended for applications in where the indexing plungers should remain disengaged over extended periods and the pin prevented from springing back.

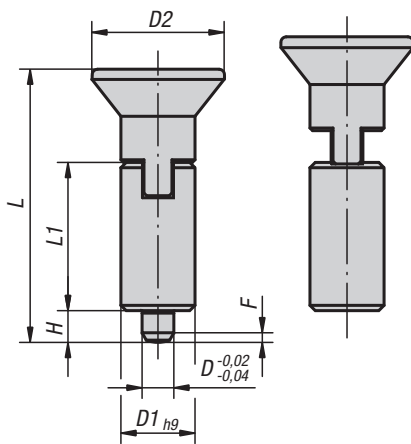
To weld the indexing plungers we recommend inert gas-shielded welding with TIG welding equipment.

On request:

Special versions.



Form L
without locking slot



Form M
with locking slot

Indexing plungers

without collar



KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	H	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0346.1004	K0346.2004	4	10	18	38,5	21	4	1	6	12
K0346.1105	K0346.2105	5	12	21	43,5	24	5	1,3	5	12
K0346.1206	K0346.2206	6	14	25	51,7	28	6	1,8	6	14
K0346.1308	K0346.2308	8	18	33	68	36	8	2,3	15	35
K0346.1410	K0346.2410	10	22	33	74	40	10	2,8	15	34

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	H	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0346.01004	K0346.02004	4	10	18	38,5	21	4	1	6	12
K0346.01105	K0346.02105	5	12	21	43,5	24	5	1,3	5	12
K0346.01206	K0346.02206	6	14	25	51,7	28	6	1,8	6	14
K0346.01308	K0346.02308	8	18	33	68	36	8	2,3	15	35
K0346.01410	K0346.02410	10	22	33	74	40	10	2,8	15	34

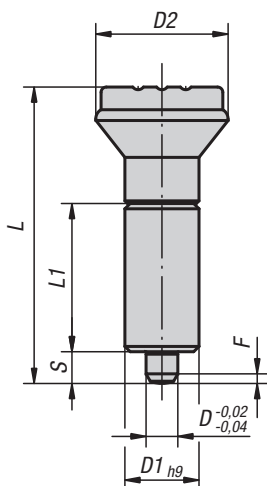
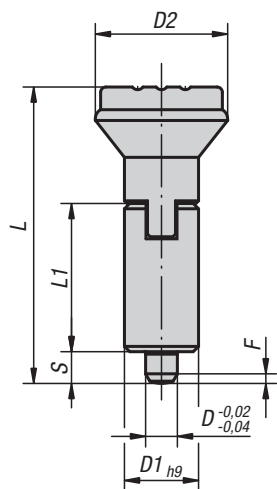
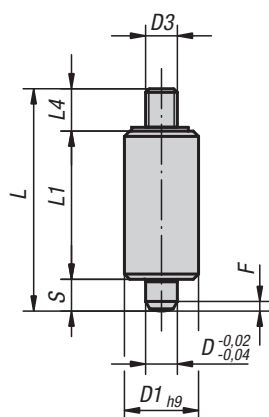
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	H	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0346.11004	K0346.12004	4	10	18	38,5	21	4	1	6	12
K0346.11105	K0346.12105	5	12	21	43,5	24	5	1,3	5	12
K0346.11206	K0346.12206	6	14	25	51,7	28	6	1,8	6	14
K0346.11308	K0346.12308	8	18	33	68	36	8	2,3	15	35
K0346.11410	K0346.12410	10	22	33	74	40	10	2,8	15	34



Indexing plungers

without collar

Form L
without locking slotForm M
with locking slotForm N
with threaded pin**Material:**

Steel version:
Indexing pin hardened:
Sleeve 1.0403 weldable.
Indexing pin grade 5.8.

Stainless steel version:
Indexing pin hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4034.

Indexing pin not hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0347.02206

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

Form M is recommended for applications where the indexing plungers should remain disengaged over an extended period and the pin prevented from springing back.

Special grips can be fitted on the projecting threaded pin of Form N. This pin is also suitable for actuating the indexing plunger e.g. automatically (program-controlled) with the aid of a pneumatic cylinder or remote controlled with bowden cables.

To weld the indexing plungers we recommend inert gas shielded welding with TIG welding equipment.

On request:

Special versions.

Indexing plungers

without collar



KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form L	Order No. Form M	Order No. Form N	D	D1	D2	D3	L	L1	L4	Travel S	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0347.1105	K0347.2105	K0347.3105	5	12	21/21/-	-/-M4	47/47/37	24	-/-8	5	1,3	5	12
K0347.1206	K0347.2206	K0347.3206	6	14	25/25/-	-/-M6	56/56/43	28	-/-9	6	1,8	6	14
K0347.1308	K0347.2308	K0347.3308	8	18	33/33/-	-/-M8	74/74/56	36	-/-12	8	2,3	15	35
K0347.1410	K0347.2410	K0347.3410	10	22	33/33/-	-/-M8	80/80/62	40	-/-12	10	2,8	15	34

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form L	Order No. Form M	Order No. Form N	D	D1	D2	D3	L	L1	L4	Travel S	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0347.01105	K0347.02105	K0347.03105	5	12	21/21/-	-/-M4	47/47/37	24	-/-8	5	1,3	5	12
K0347.01206	K0347.02206	K0347.03206	6	14	25/25/-	-/-M6	56/56/43	28	-/-9	6	1,8	6	14
K0347.01308	K0347.02308	K0347.03308	8	18	33/33/-	-/-M8	74/74/56	36	-/-12	8	2,3	15	35
K0347.01410	K0347.02410	K0347.03410	10	22	33/33/-	-/-M8	80/80/62	40	-/-12	10	2,8	15	34

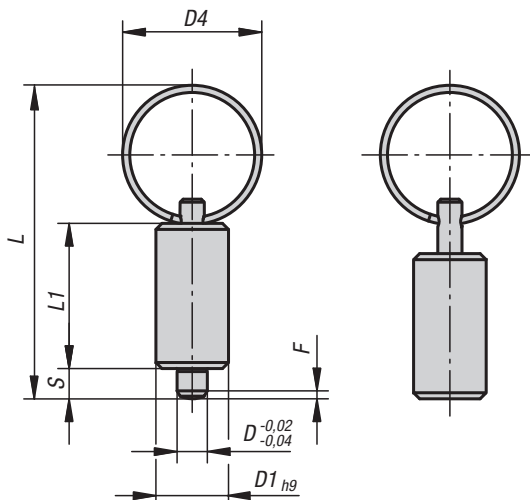
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form L	Order No. Form M	Order No. Form N	D	D1	D2	D3	L	L1	L4	Travel S	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0347.11105	K0347.12105	K0347.13105	5	12	21/21/-	-/-M4	47/47/37	24	-/-8	5	1,3	5	12
K0347.11206	K0347.12206	K0347.13206	6	14	25/25/-	-/-M6	56/56/43	28	-/-9	6	1,8	6	14
K0347.11308	K0347.12308	K0347.13308	8	18	33/33/-	-/-M8	74/74/56	36	-/-12	8	2,3	15	35
K0347.11410	K0347.12410	K0347.13410	10	22	33/33/-	-/-M8	80/80/62	40	-/-12	10	2,8	15	34



Indexing plungers

without collar



Material:

Steel version:
Indexing pin hardened.
Sleeve 1.0403 weldable.
Indexing pin grade 5.8.

Stainless steel version:
Indexing pin hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4034.

Indexing pin not hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4305.

Key ring 1.4310, bright.

Version:

Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:

K0636.4206

Note:

Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged.

The key ring is also suitable for actuating the indexing plungers e.g. automatically (program-controlled) with the aid of a pneumatic cylinder or remote controlled with bowden cables.

To weld the indexing plungers we recommend inert gas shielded welding with TIG welding equipment.

On request:

Special versions.

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No.	Main material	Surface finish body	D	D1	D4	L	L1	Travel S	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0636.4004	steel	hardened	4	10	15	40	21	4	1	6	12
K0636.4105	steel	hardened	5	12	23	52	24	5	1,3	5	12
K0636.4206	steel	hardened	6	14	23	57	28	6	1,8	6	14
K0636.4308	steel	hardened	8	18	28	72	36	8	2,3	15	35
K0636.4410	steel	hardened	10	22	28	78	40	10	2,8	15	34

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

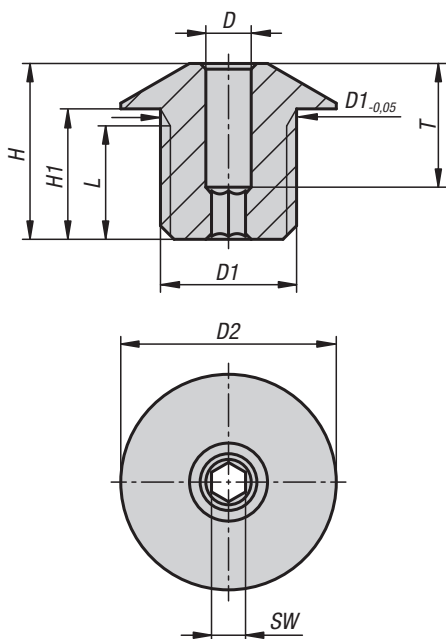
Order No.	Main material	Surface finish body	D	D1	D4	L	L1	Travel S	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0636.04004	stainless steel	hardened	4	10	15	40	21	4	1	6	12
K0636.04105	stainless steel	hardened	5	12	23	52	24	5	1,3	5	12
K0636.04206	stainless steel	hardened	6	14	23	57	28	6	1,8	6	14
K0636.04308	stainless steel	hardened	8	18	28	72	36	8	2,3	15	35
K0636.04410	stainless steel	hardened	10	22	28	78	40	10	2,8	15	34

KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No.	Main material	Surface finish body	D	D1	D4	L	L1	Travel S	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0636.14004	stainless steel	not hardened	4	10	15	40	21	4	1	6	12
K0636.14105	stainless steel	not hardened	5	12	23	52	24	5	1,3	5	12
K0636.14206	stainless steel	not hardened	6	14	23	57	28	6	1,8	6	14
K0636.14308	stainless steel	not hardened	8	18	28	72	36	8	2,3	15	35
K0636.14410	stainless steel	not hardened	10	22	28	78	40	10	2,8	15	34

Positioning bushes

for indexing plunger



Material:

Steel or stainless steel 1.4112.

Version:

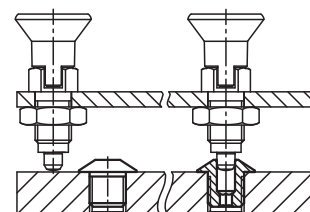
Black oxidised, hardened and ground.
Stainless steel version bright.

Sample order:

K1290.04

Note:

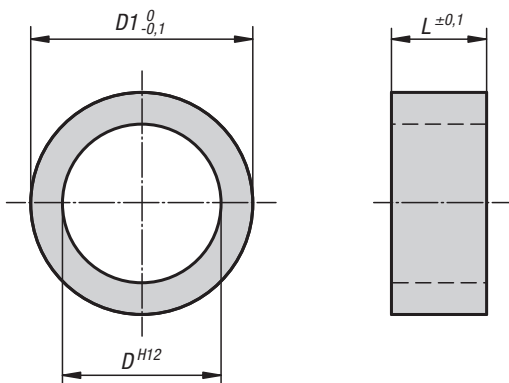
Positioning bushes suitable for indexing plunger.
Matched with mounting brackets K0638.



KIPP Positioning bushes for indexing plunger

Order No.	Main material	D	D1	D2	H	H1	L	SW	T
K1290.04	steel	4	M12x1,5	19	15,5	11,5	10	3	11
K1290.05	steel	5	M12x1,5	19	15,5	11,5	10	4	10
K1290.06	steel	6	M12x1,5	19	15,5	11,5	10	4	10
K1290.08	steel	8	M16x1,5	26	19,5	14,5	13	6	12
K1290.10	steel	10	M16x1,5	26	19,5	14,5	13	6	12
K1290.104	stainless steel	4	M12x1,5	19	15,5	11,5	10	3	11
K1290.105	stainless steel	5	M12x1,5	19	15,5	11,5	10	4	10
K1290.106	stainless steel	6	M12x1,5	19	15,5	11,5	10	4	10
K1290.108	stainless steel	8	M16x1,5	26	19,5	14,5	13	6	12
K1290.110	stainless steel	10	M16x1,5	26	19,5	14,5	13	6	12

Spacer rings



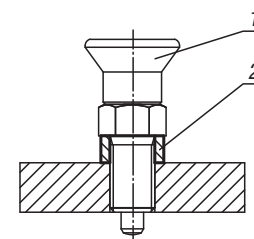
Material:
Stainless steel

Version:
Bright.

Sample order:
K0665.90811021

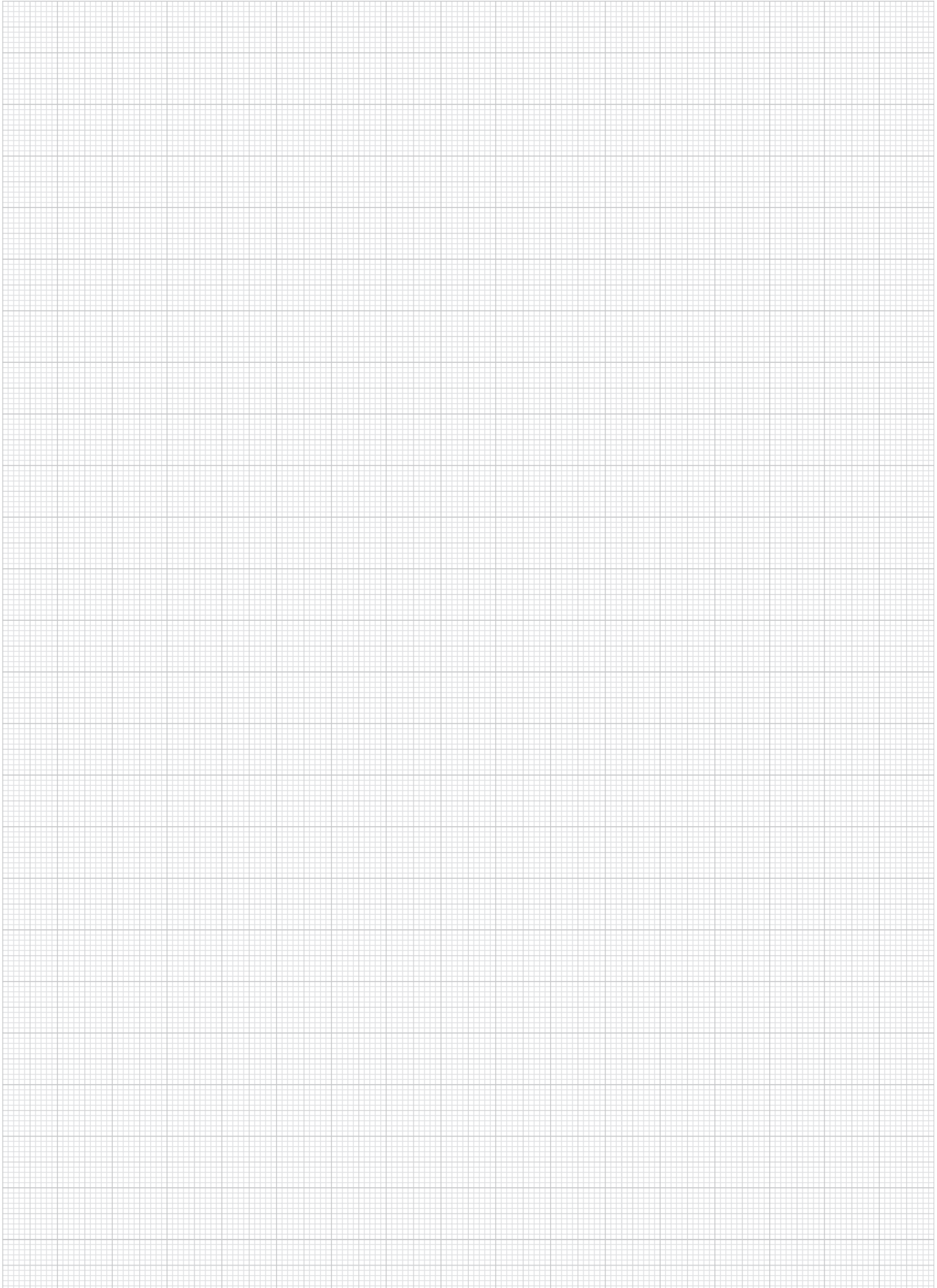
Note:
Spacer rings are used to adjust the indexing plunger thread length to suit the application wall thickness.

Drawing reference:
1) Indexing plunger
2) Spacer ring



KIPP Spacer rings

Order No.	D	D1	L
K0665.90811021	8	11	2
K0665.90811031	8	11	3
K0665.90811041	8	11	4
K0665.90811061	8	11	6
K0665.90811081	8	11	8
K0665.91014021	10	14	2
K0665.91014031	10	14	3
K0665.91014041	10	14	4
K0665.91014061	10	14	6
K0665.91014081	10	14	8
K0665.91215021	12	15	2
K0665.91215041	12	15	4
K0665.91215051	12	15	5
K0665.91215061	12	15	6
K0665.91215081	12	15	8
K0665.91217021	12	17	2
K0665.91217041	12	17	4
K0665.91217051	12	17	5
K0665.91217061	12	17	6
K0665.91217081	12	17	8
K0665.91621041	16	21	4
K0665.91621051	16	21	5
K0665.91621061	16	21	6
K0665.91621081	16	21	8
K0665.91621101	16	21	10

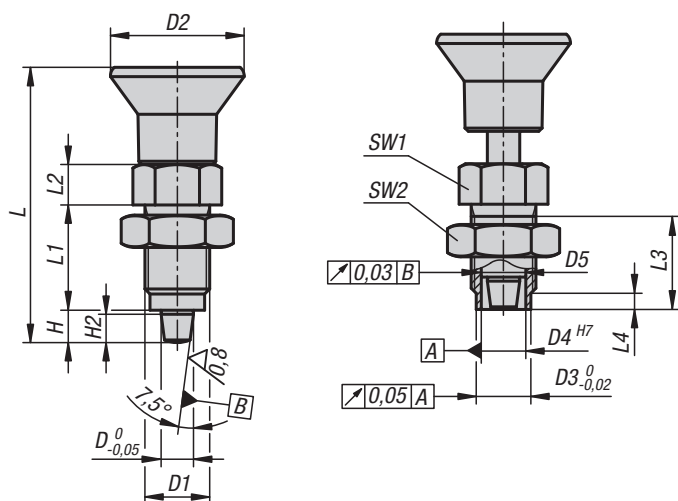


Indexing plungers - Premium

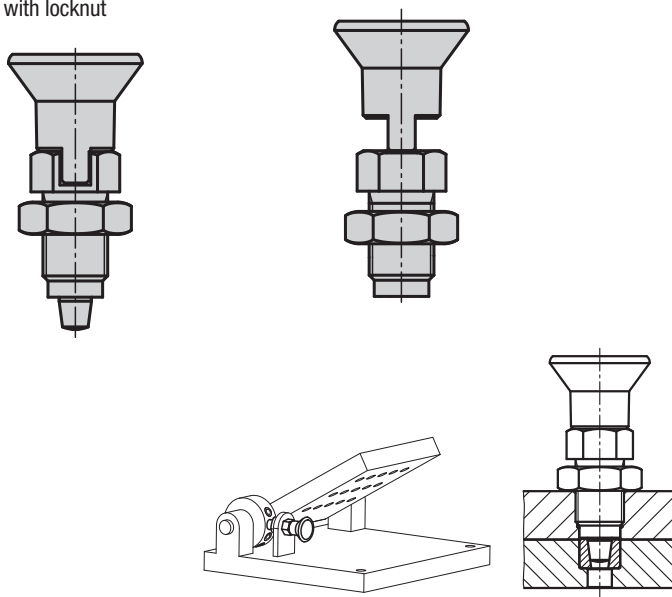
with tapered pin



Form B
non-lockout type
with locknut



Form D
lockout type
with locknut



Material:

Steel version:

indexing pin hardened: grade 5.8

Stainless steel version:

indexing pin hardened: threaded sleeve 1.4305,

indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:

Steel version:

indexing pin hardened, ground and black oxidised.

Stainless steel version:

indexing pin hardened, ground and bright.

Sample order:

K0736.52206

Note:

Premium indexing plungers are characterized by more stringent manufacturing requirements for the indexing plungers and the threaded sleeve. In addition, a centring locator that can be used to increase the positioning accuracy is provided on the threaded sleeve. These indexing plungers are used when it is necessary to prevent shifting of the locked position by transverse forces and greater positioning accuracy is required. A new locking position can only be set after the pin has been manually disengaged. When high lateral forces are to be expected, the centring locator should be used.

Assembly:

When using the threaded sleeve centring, it is recommended the receiving reamed hole be machined before tapping.

The conical contact surface is aligned by the threaded sleeve and locking nut.

On request:

Special versions and spacer rings.

Accessories:

Matching tapered bush K0736.

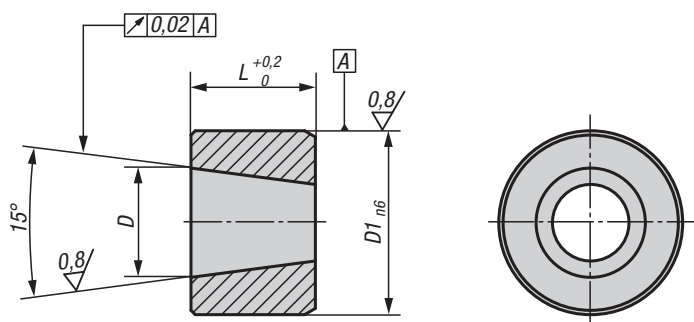
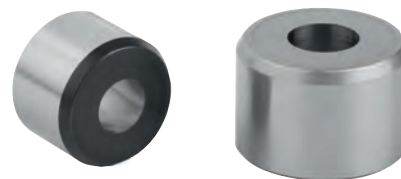
KIPP Premium indexing plungers with tapered pin, steel, indexing pin hardened

Order No. Form B	Order No. Form D	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	H2	SW1	SW2	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.52105	K0736.54105	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	4	13	17	5	12
K0736.52206	K0736.54206	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	5	14	19	6	14
K0736.52308	K0736.54308	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	7	19	24	15	35
K0736.52410	K0736.54410	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	9	22	30	15	34

KIPP Premium indexing plungers with tapered pin, stainless steel, indexing pin hardened

Order No. Form B	Order No. Form D	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	H2	SW1	SW2	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.502105	K0736.504105	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	4	13	17	5	12
K0736.502206	K0736.504206	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	5	14	19	6	14
K0736.502308	K0736.504308	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	7	19	24	15	35
K0736.502410	K0736.504410	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	9	22	30	15	34

Bushes tapered



Material:

Steel or 1.4034 stainless steel.

Version:

Steel version:

black oxidised, hardened and ground.

Stainless steel version:

bright, hardened and ground.

Sample order:

K0736.9106

Note:

Matching bushes for premium indexing plungers with tapered pin K0736.

Assembly:

To increase the coaxial alignment accuracy, the holes for the bush and the premium indexing plunger can be machined simultaneously.

KIPP Tapered bushes

Order No.	Main material	D	D1	L
K0736.9105	steel	5	8	6
K0736.9106	steel	6	10	7
K0736.9108	steel	8	13,5	9,5
K0736.9110	steel	10	17	11,5
K0736.91005	stainless steel	5	8	6
K0736.91006	stainless steel	6	10	7
K0736.91008	stainless steel	8	13,5	9,5
K0736.91010	stainless steel	10	17	11,5

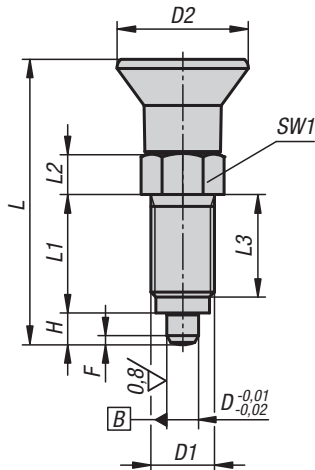


Indexing plungers - Premium

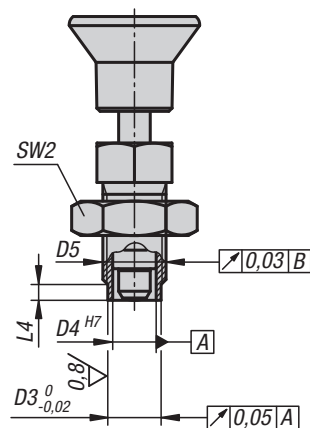
with cylindrical pin



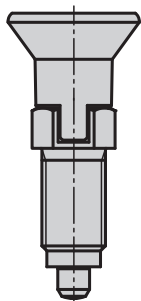
Form A
non-lockout type
without locknut



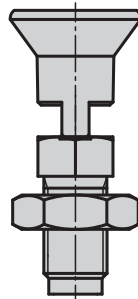
Form B
non-lockout type
with locknut



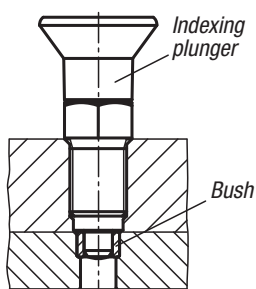
Form C
lockout type
without locknut



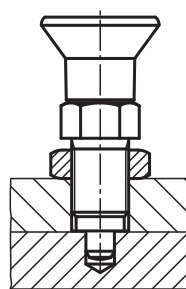
Form D
lockout type
with locknut



Fixation
with bush:



Fixation
without bush:



Material:

Steel version:
indexing pin hardened: grade 5.8

Stainless steel version:
indexing pin hardened: threaded sleeve 1.4305, indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:

Steel version:
indexing pin hardened, ground and black oxidised.

Stainless steel version:
indexing pin hardened, ground and bright.

Sample order:

K0736.41206

Note:

Premium indexing plungers are characterized by more stringent manufacturing requirements for the indexing plungers and threaded sleeve. In addition, a centring locator that can be used to increase the positioning accuracy is provided on the threaded sleeve. These indexing plungers are used when it is necessary to prevent shifting of the locked position by transverse forces and greater positioning accuracy is required. A new locking position can only be set after the pin has been manually disengaged. When high lateral forces are to be expected, the centring locator should be used.

Assembly:

When using the threaded sleeve centring, it is recommended the receiving reamed hole be machined before tapping.

On request:

Special versions and spacer rings.

Accessories:

Matching cylindrical bush K0736.
Locknut K0700....

Indexing plungers - Premium

with cylindrical pin

KIPP Premium indexing plungers with cylindrical pin, steel, indexing pin hardened

Order No. Form A	Order No. Form B	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.41105	K0736.42105	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	13	-/17	1,3	5	12
K0736.41206	K0736.42206	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	14	-/19	1,8	6	14
K0736.41308	K0736.42308	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	19	-/24	2,3	15	35
K0736.41410	K0736.42410	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	22	-/30	2,8	15	34

Order No. Form C	Order No. Form D	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.43105	K0736.44105	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	13	-/17	1,3	5	12
K0736.43206	K0736.44206	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	14	-/19	1,8	6	14
K0736.43308	K0736.44308	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	19	-/24	2,3	15	35
K0736.43410	K0736.44410	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	22	-/30	2,8	15	34

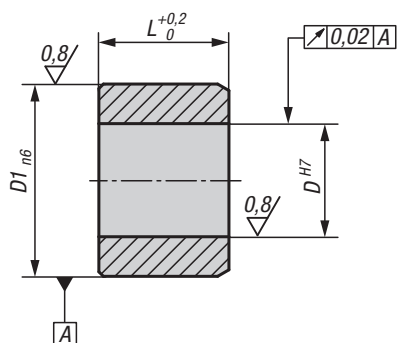
KIPP Premium indexing plungers with cylindrical pin, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.401105	K0736.402105	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	13	-/17	1,3	5	12
K0736.401206	K0736.402206	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	14	-/19	1,8	6	14
K0736.401308	K0736.402308	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	19	-/24	2,3	15	35
K0736.401410	K0736.402410	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	22	-/30	2,8	15	34

Order No. Form C	Order No. Form D	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.403105	K0736.404105	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	13	-/17	1,3	5	12
K0736.403206	K0736.404206	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	14	-/19	1,8	6	14
K0736.403308	K0736.404308	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	19	-/24	2,3	15	35
K0736.403410	K0736.404410	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	22	-/30	2,8	15	34



Bushes cylindrical



Material:

Steel or 1.4034 stainless steel.

Version:

Steel version:
black oxidised, hardened and ground.
Stainless steel version:
bright, hardened and ground.

Sample order:

K0736.9005

Note:

Matching bushes for premium indexing plungers with cylindrical pin K0736.

Assembly:

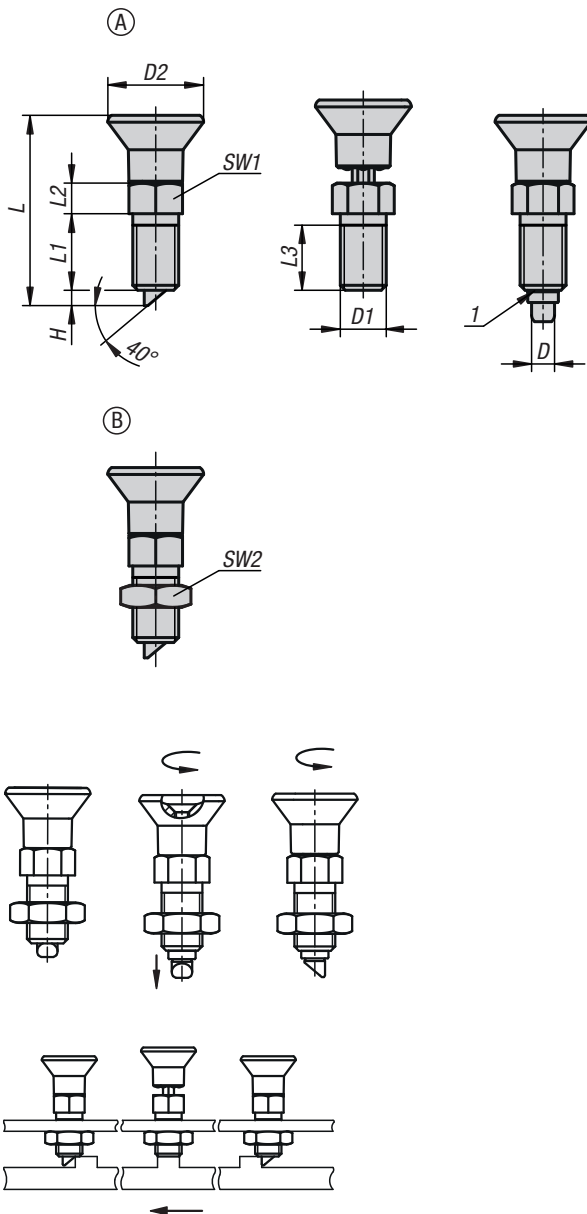
To increase the coaxial alignment accuracy, the hole for the bush and the premium indexing plunger can be machined simultaneously.

KIPP Cylindrical bushes

Order No.	Main material	D	D1	L
K0736.9005	steel	5	8	6
K0736.9006	steel	6	10	7
K0736.9008	steel	8	13,5	9,5
K0736.9010	steel	10	17	11,5
K0736.90005	stainless steel	5	8	6
K0736.90006	stainless steel	6	10	7
K0736.90008	stainless steel	8	13,5	9,5
K0736.90010	stainless steel	10	17	11,5

Indexing plungers

with rotation lock and lead-in chamfer



Material:

Steel version:

indexing pin hardened: grade 5.8

Stainless steel version:

indexing pin hardened: threaded sleeve 1.4305, indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:

Steel version:

indexing pin hardened, ground and black oxidised.

Stainless steel version:

indexing pin hardened, ground and bright.

Sample order:

K1300.12060

Note:

Indexing plungers are used where any change in locking position due to lateral forces should be prevented. The rotation lock ensures that the position of the pin in relation to the sleeve cannot be changed. The point angle enables the pin to retract automatically through a lateral force from one side. Loosening the screw as far as the marking on the plunger enables the point angle to be rotated in 60° increments.

Assembly:

The screw can be loosened using a hex. key.

On request:

Special versions.

Accessories:

Spacer rings K0665

Drawing reference:

Form A: without locknut

Form B: with locknut

1) marking ring



KIPP Indexing plunger with rotation lock and lead-in chamfer, steel, indexing pin hardened

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1300.12061	K1300.22061	6	M12x1,5	25	49,7	20	8	17	4	14	-/19	8	14
K1300.12060	K1300.22060	6	M12	25	49,7	20	8	17	4	14	-/19	8	14
K1300.13081	K1300.23081	8	M16x1,5	33	66	26	10	23	6	19	-/24	20	35
K1300.13080	K1300.23080	8	M16	33	66	26	10	23	6	19	-/24	20	35

KIPP Indexing plunger with rotation lock and lead-in chamfer, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1300.012061	K1300.022061	6	M12x1,5	25	49,7	20	8	17	4	14	-/19	8	14
K1300.012060	K1300.022060	6	M12	25	49,7	20	8	17	4	14	-/19	8	14
K1300.013081	K1300.023081	8	M16x1,5	33	66	26	10	23	6	19	-/24	20	35
K1300.013080	K1300.023080	8	M16	33	66	26	10	23	6	19	-/24	20	35

Indexing plungers

with T-grip



Material:
Steel version:
Indexing pin hardened:
pin 1.0718
threaded sleeve 1.0718.

Stainless steel version:
Indexing pin hardened:
pin 1.4305
threaded sleeve 1.4305.

T-grip thermoplastic, black grey or traffic red RAL 3020.

Version:
Steel version:
indexing pin hardened, ground and black oxidised.
Threaded sleeve black oxidised

Stainless steel version:
indexing pin hardened, ground and bright.
Threaded sleeve bright.

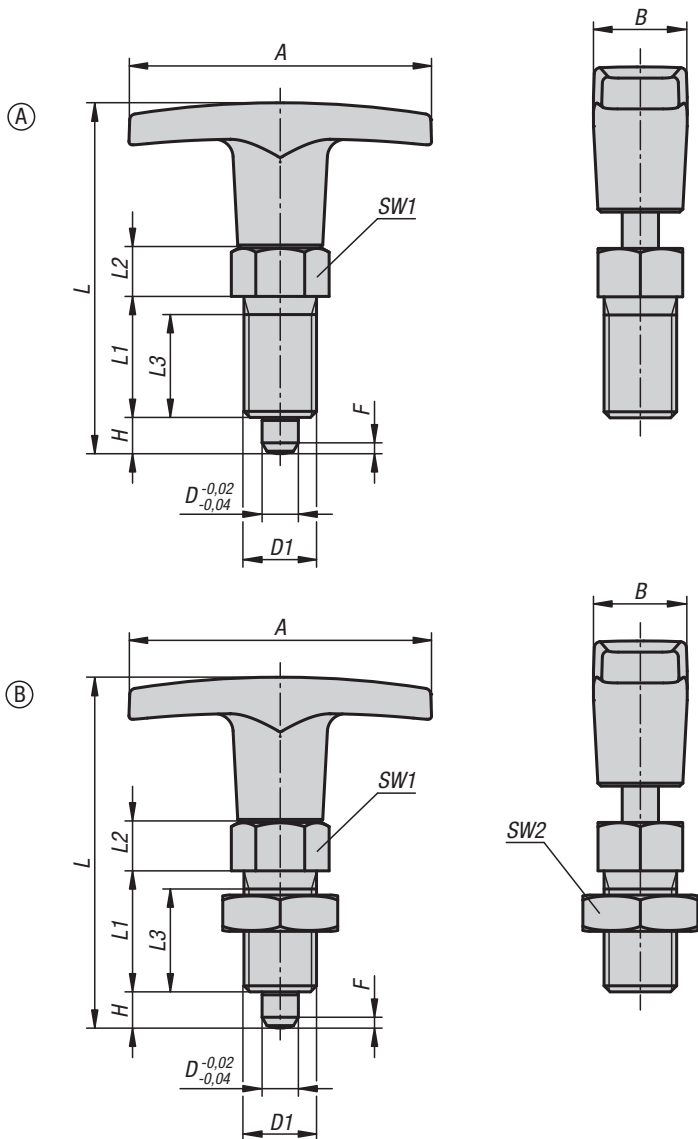
Sample order:
K1124.5308

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. The ergonomic T-grip enables easy handling and low effort.

On request:
Special versions.

Accessories:
Spacer rings K0665

Drawing reference:
Form A: without locknut
Form B: with locknut



KIPP Indexing plungers, steel, indexing pin hardened

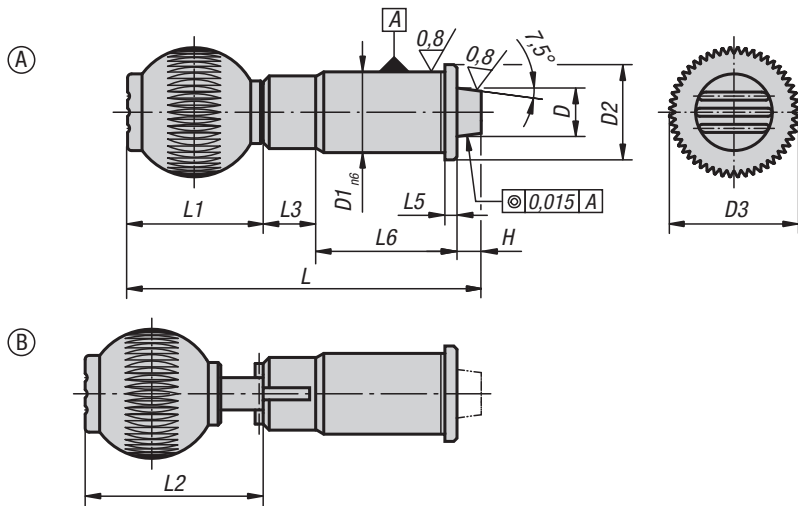
Order No. Form A	Order No. Form B	Component colour	A	B	D	D1	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1124.5206	K1124.6206	black grey RAL 7021	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.5308	K1124.6308	black grey RAL 7021	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.5410	K1124.6410	black grey RAL 7021	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34
K1124.520684	K1124.620684	red	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.530884	K1124.630884	red	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.541084	K1124.641084	red	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Component colour	A	B	D	D1	L	L1	L2	L3	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1124.05206	K1124.06206	black grey RAL 7021	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.05308	K1124.06308	black grey RAL 7021	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.05410	K1124.06410	black grey RAL 7021	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34
K1124.0520684	K1124.0620684	red	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.0530884	K1124.0630884	red	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.0541084	K1124.0641084	red	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34

Indexing plungers - Precision

with tapered pin



Material:

Steel.
Grip ball thermoplastic.

Version:

Hardened and ground.
Grip ball black grey.

Sample order:

K0359.020

Note:

The indexing plungers with bushes are a perfect combination for rapid positioning and fixating. The precise design of both the indexing plunger and the bush guarantees high repeat accuracy when assembling two elements.

For technical information see assembly and installation instructions.

Drawing reference:

Form A: standard

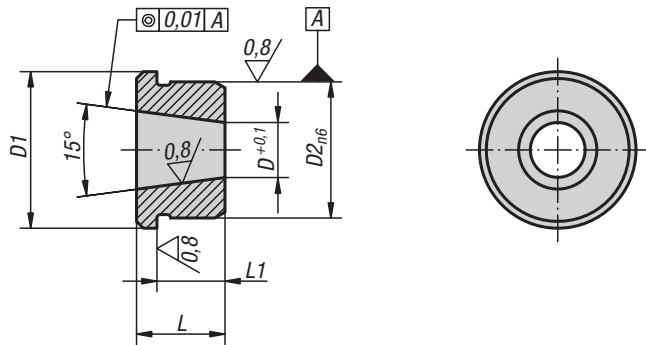
Form B: lockable



KIPP Precision indexing plungers with tapered pin

Order No. Form A	Order No. Form B	D	D1	D2	D3	H	L	L1	L2	L3	L5	L6	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Internal thread grip ball
K0359.010	K0359.110	10	16	19	25	6	75	25	-/30,5	13	2,5	31	19	29	M6
K0359.012	K0359.112	12	20	23	32	6	87	33	-/40,5	13	3	35	22	35	M8
K0359.016	K0359.116	16	25	28	40	6	102,5	41,5	-/49	13	3	42	30	50	M10
K0359.020	K0359.120	20	30	33	40	6	110,5	41,5	-/49	13	3	50	46	63	M10
K0359.025	K0359.125	25	38	42	50	6	130	51	-/58,5	13	3	60	39	73	M10

Bushes tapered



Material:
Steel.

Version:
Hardened and ground.

Sample order:
K0360.20

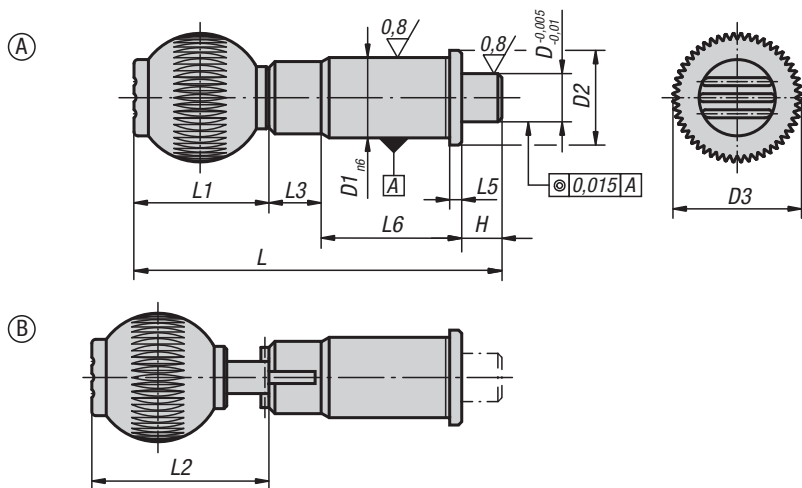
Note:
Bushes for precision indexing plungers K0359.

KIPP Tapered bushes

Order No.	D	D1	D2	L	L1
K0360.10	7,1	19	16	11	8,5
K0360.12	8,28	23	20	13	10
K0360.16	11,52	28	25	17	14
K0360.20	15,49	33	30	16	13
K0360.25	19,7	42	38	19	16

Indexing plungers - Precision

with cylindrical pin



Material:

Steel.
Grip ball thermoplastic.

Version:

Hardened and ground.
Grip ball black grey.

Sample order:

K0361.020

Note:

The indexing plungers with bushes are a perfect combination for rapid positioning and fixing. The precise design of both the indexing plungers and the bush guarantees high repeating accuracy when assembling two elements.

Technical Information see assembly and installation instructions.

Drawing reference:

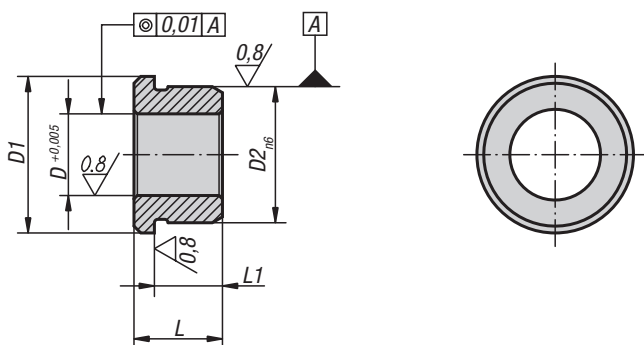
Form A: standard
Form B: lockable



KIPP Precision indexing plungers with cylindrical pin

Order No. Form A	Order No. Form B	D	D1	D2	D3	H	L	L1	L2	L3	L5	L6	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Internal thread grip ball
K0361.010	K0361.110	10	16	19	25	10	79	25	-/36,5	13	2,5	31	15	30	M6
K0361.012	K0361.112	12	20	23	32	10	91	33	-/44,5	13	3	35	15	35	M8
K0361.016	K0361.116	16	25	28	40	10	106,5	41,5	-/53	13	3	42	20	50	M10
K0361.020	K0361.120	20	30	33	40	10	114,5	41,5	-/53	13	3	50	36	63	M10
K0361.025	K0361.125	25	38	42	50	10	134	51	-/62,5	13	3	60	20	73	M10

Bushes cylindrical

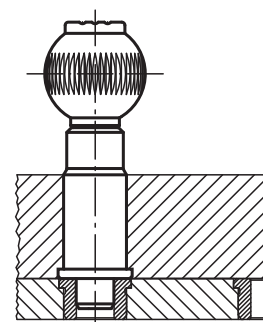


Material:
Steel.

Version:
Hardened and ground.

Sample order:
K0362.20

Note:
Bushes for precision indexing plungers K0361.



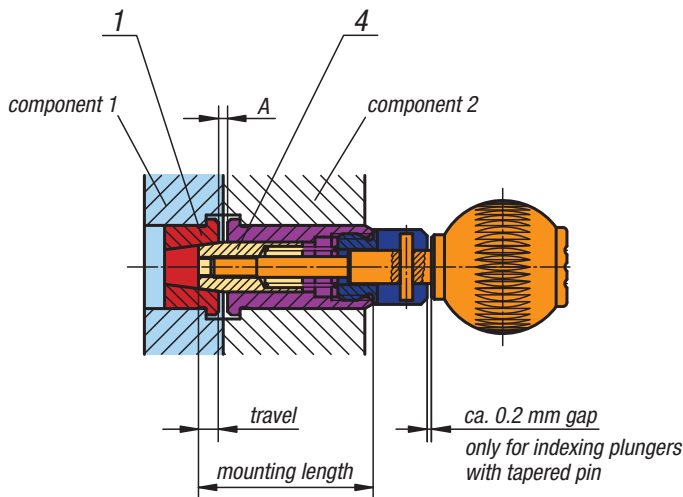
KIPP Cylindrical bushes

Order No.	D	D1	D2	L	L1
K0362.10	10	19	16	11	8,5
K0362.12	12	23	20	13	10
K0362.16	16	28	25	17	14
K0362.20	20	33	30	16	13
K0362.25	25	42	38	19	16

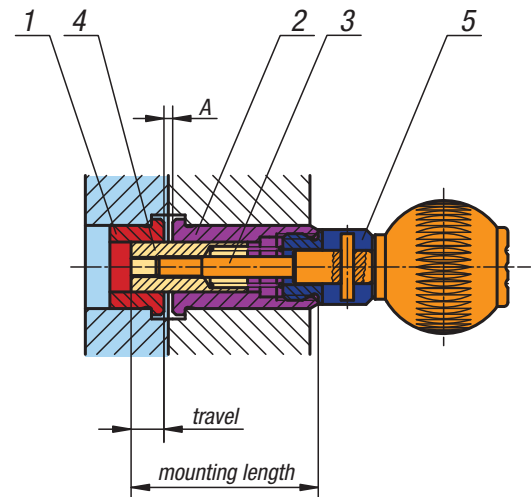
Assembly and installation instructions for precision indexing plungers



**Precision indexing plungers
with tapered indexing pin**



**Precision indexing plungers
with cylindrical indexing pin**



Assembly instructions:

1. Fit tapered or cylindrical bush (1) into "component 1".
2. Mount sleeve (2) into "component 2".
3. Determine mounting length (actual dimension). Mounting length = A + travel + length of sleeve 2. Models with tapered pin should have a 0.2 mm gap.
4. Glue screw (3) and centring pin (4) together with anaerobic adhesive. We recommend Loctite 638.
5. Screw centring pin with nut (4) and handle into the mounted sleeve (2). If necessary glue together with anaerobic adhesive.
6. Check whether the product is operational. Keep to the index travel length given in the catalogue.

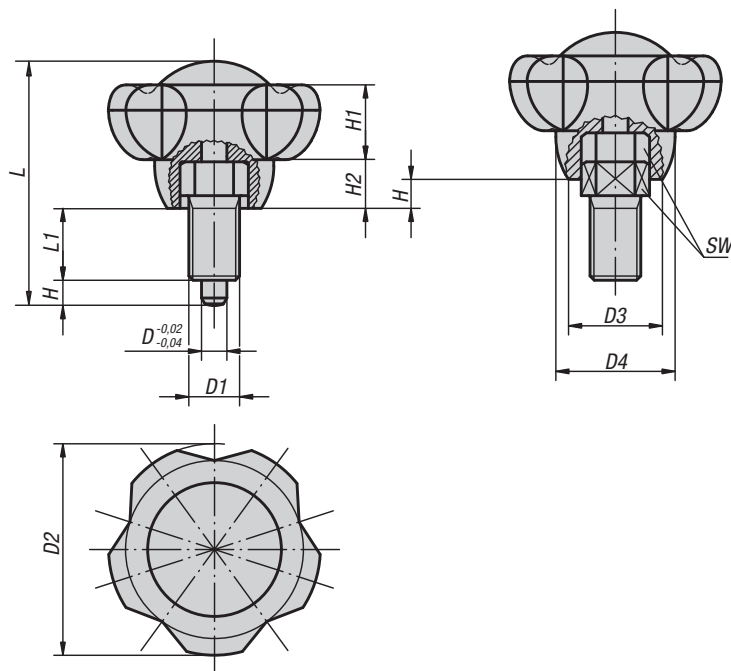
Note:

The precision indexing plunger is only ready for operation after the stated adhesive hardening time. When gluing the components, ensure that no adhesive comes into contact with movable parts.



Indexing plungers

with five lobe grip



These indexing plungers enable indexing and clamping with a single component. Especially useful for telescopic adjustments, enabling them to be positioned and clamped quickly, precisely and simply.

Material:

Thermoplastic.
Indexing pin and screw steel 5.8.

Version:

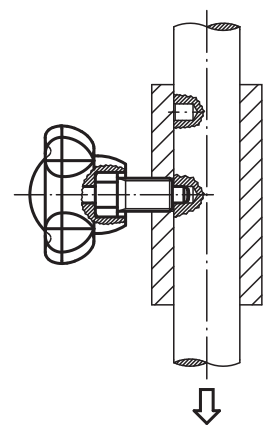
Lower grip black-grey.
Indexing pin and screw black oxidised.
Indexing pin hardened and ground.

Sample order:

K0245.11056 (cap colour traffic red)

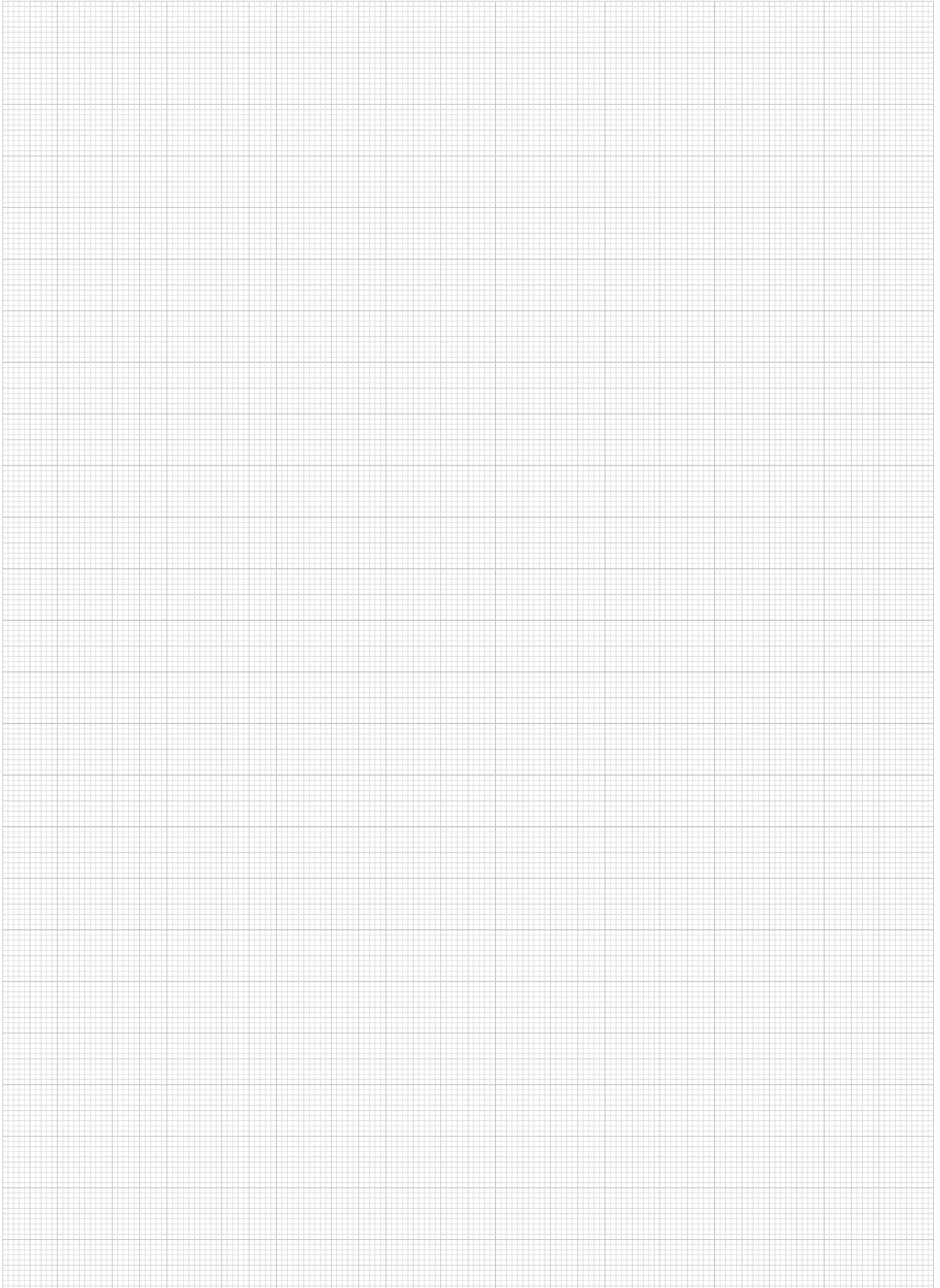
Note:

Δ Add the desired cap colour here.
No colour code is required for black grey caps.

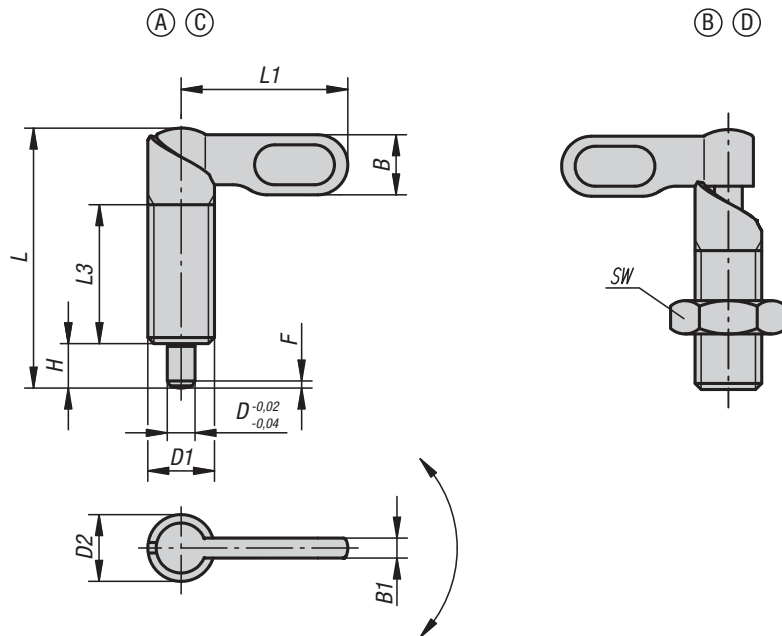


KIPP Indexing plungers with five lobe grip

Order No.	D	D1	D2	D3	D4	H	H1	H2	L	L1	SW
K0245.1105Δ	5	M10x1	50	22,2	28,2	5	17,8	11,5	52,8	13	13
K0245.1206Δ	6	M12x1,5	50	22,2	28,2	6	17,8	11,5	57,8	17	14
K0245.1308Δ	8	M16x1,5	63	28	35,5	8	22,5	14,5	74	22	19
K0245.1410Δ	10	M20x1,5	63	28	35,5	10	22,5	14,5	78	24	22



Cam-action indexing plungers



Material:
Steel grade 5.8.

Version:
Black oxidised.
Pin hardened and ground.

Sample order:
K0348.040616

Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin and a notch ensures that the handle remains in this position.

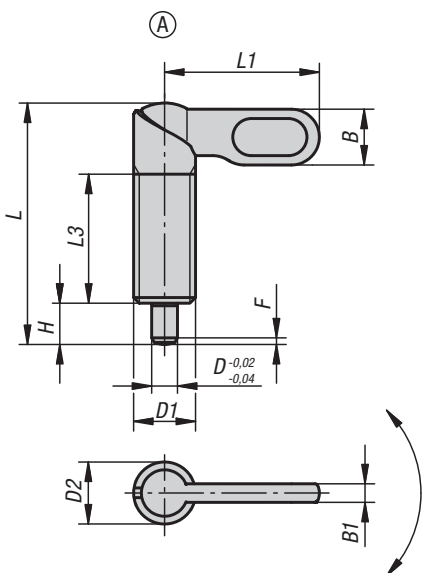
Drawing reference:
Form A: grip uncoated without nut
Form C: grip powder-coated without nut
Form B: grip uncoated with nut
Form D: grip powder-coated with nut

KIPP Cam-action indexing plungers

Order No. Form A	Order No. Form C	Order No. Form B	Order No. Form D	D	D1	D2	L	L1	L3	B	B1	H	SW	Fx30° initial pressure F1 approx. N	Spring force final pressure F2 approx. N	
K0348.040410	K0348.060410	K0348.050410	K0348.070410	4	M10	10	38	25	20	9	3	6	-/-/17/17	1	8	14
K0348.040510	K0348.060510	K0348.050510	K0348.070510	5	M10	10	38	25	20	9	3	6	-/-/17/17	1,3	8	14
K0348.040610	K0348.060610	K0348.050610	K0348.070610	6	M10	10	38	25	20	9	3	6	-/-/17/17	1,8	8	14
K0348.0404101	K0348.0604101	K0348.0504101	K0348.0704101	4	M10x1	10	38	25	20	9	3	6	-/-/17/17	1	8	14
K0348.0405101	K0348.0605101	K0348.0505101	K0348.0705101	5	M10x1	10	38	25	20	9	3	6	-/-/17/17	1,3	8	14
K0348.0406101	K0348.0606101	K0348.0506101	K0348.0706101	6	M10x1	10	38	25	20	9	3	6	-/-/17/17	1,8	8	14
K0348.040512	K0348.060512	K0348.050512	K0348.070512	5	M12	12	46,8	30	25	10,8	3,6	8	-/-/19/19	1,3	8	15
K0348.040612	K0348.060612	K0348.050612	K0348.070612	6	M12	12	46,8	30	25	10,8	3,6	8	-/-/19/19	1,8	8	15
K0348.040812	K0348.060812	K0348.050812	K0348.070812	8	M12	12	46,8	30	25	10,8	3,6	8	-/-/19/19	2,3	8	15
K0348.0405121	K0348.0605121	K0348.0505121	K0348.0705121	5	M12x1,5	12	46,8	30	25	10,8	3,6	8	-/-/19/19	1,3	8	15
K0348.0406121	K0348.0606121	K0348.0506121	K0348.0706121	6	M12x1,5	12	46,8	30	25	10,8	3,6	8	-/-/19/19	1,8	8	15
K0348.0408121	K0348.0608121	K0348.0508121	K0348.0708121	8	M12x1,5	12	46,8	30	25	10,8	3,6	8	-/-/19/19	2,3	8	15
K0348.040616	K0348.060616	K0348.050616	K0348.070616	6	M16	16	60,4	40	32	14,4	4,8	10	-/-/24/24	1,8	15	35
K0348.040816	K0348.060816	K0348.050816	K0348.070816	8	M16	16	60,4	40	32	14,4	4,8	10	-/-/24/24	2,3	15	35
K0348.041016	K0348.061016	K0348.051016	K0348.071016	10	M16	16	60,4	40	32	14,4	4,8	10	-/-/24/24	2,8	15	35
K0348.0406161	K0348.0606161	K0348.0506161	K0348.0706161	6	M16x1,5	16	60,4	40	32	14,4	4,8	10	-/-/24/24	1,8	15	35
K0348.0408161	K0348.0608161	K0348.0508161	K0348.0708161	8	M16x1,5	16	60,4	40	32	14,4	4,8	10	-/-/24/24	2,3	15	35
K0348.0410161	K0348.0610161	K0348.0510161	K0348.0710161	10	M16x1,5	16	60,4	40	32	14,4	4,8	10	-/-/24/24	2,8	15	35
K0348.040820	K0348.060820	K0348.050820	K0348.070820	8	M20	20	70	50	35	18	6	12	-/-/30/30	2,3	20	60
K0348.041020	K0348.061020	K0348.051020	K0348.071020	10	M20	20	70	50	35	18	6	12	-/-/30/30	2,8	20	60
K0348.041220	K0348.061220	K0348.051220	K0348.071220	12	M20	20	70	50	35	18	6	12	-/-/30/30	3	20	60
K0348.0408201	K0348.0608201	K0348.0508201	K0348.0708201	8	M20x1,5	20	70	50	35	18	6	12	-/-/30/30	2,3	20	60
K0348.0410201	K0348.0610201	K0348.0510201	K0348.0710201	10	M20x1,5	20	70	50	35	18	6	12	-/-/30/30	2,8	20	60
K0348.0412201	K0348.0612201	K0348.0512201	K0348.0712201	12	M20x1,5	20	70	50	35	18	6	12	-/-/30/30	3	20	60

Cam-action indexing plungers

stainless steel



Material:
Stainless steel 1.4305.

Version:
Bright.
Indexing pin ground, not hardened.

Sample order:
K0637.1040616

Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin. A notch ensures that the handle remains in this position.

KIPP Cam-action indexing plungers stainless steel

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L3	B	B1	H	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0637.1040410	K0637.1050410	4	M10	10	38	25	20	9	3	6	-17	1	8	14
K0637.1040510	K0637.1050510	5	M10	10	38	25	20	9	3	6	-17	1,3	8	14
K0637.1040610	K0637.1050610	6	M10	10	38	25	20	9	3	6	-17	1,8	8	14
K0637.10404101	K0637.10504101	4	M10x1	10	38	25	20	9	3	6	-17	1	8	14
K0637.10405101	K0637.10505101	5	M10x1	10	38	25	20	9	3	6	-17	1,3	8	14
K0637.10406101	K0637.10506101	6	M10x1	10	38	25	20	9	3	6	-17	1,8	8	14
K0637.1040512	K0637.1050512	5	M12	12	46,8	30	25	10,8	3,6	8	-19	1,3	8	15
K0637.1040612	K0637.1050612	6	M12	12	46,8	30	25	10,8	3,6	8	-19	1,8	8	15
K0637.1040812	K0637.1050812	8	M12	12	46,8	30	25	10,8	3,6	8	-19	2,3	8	15
K0637.10405121	K0637.10505121	5	M12x1,5	12	46,8	30	25	10,8	3,6	8	-19	1,3	8	15
K0637.10406121	K0637.10506121	6	M12x1,5	12	46,8	30	25	10,8	3,6	8	-19	1,8	8	15
K0637.10408121	K0637.10508121	8	M12x1,5	12	46,8	30	25	10,8	3,6	8	-19	2,3	8	15
K0637.1040616	K0637.1050616	6	M16	16	60,4	40	32	14,4	4,8	10	-24	1,8	15	35
K0637.1040816	K0637.1050816	8	M16	16	60,4	40	32	14,4	4,8	10	-24	2,3	15	35
K0637.1041016	K0637.1051016	10	M16	16	60,4	40	32	14,4	4,8	10	-24	2,8	15	35
K0637.10406161	K0637.10506161	6	M16x1,5	16	60,4	40	32	14,4	4,8	10	-24	1,8	15	35
K0637.10408161	K0637.10508161	8	M16x1,5	16	60,4	40	32	14,4	4,8	10	-24	2,3	15	35
K0637.10410161	K0637.10510161	10	M16x1,5	16	60,4	40	32	14,4	4,8	10	-24	2,8	15	35
K0637.1040820	K0637.1050820	8	M20	20	70	50	35	18	6	12	-30	2,3	20	60
K0637.1041020	K0637.1051020	10	M20	20	70	50	35	18	6	12	-30	2,8	20	60
K0637.1041220	K0637.1051220	12	M20	20	70	50	35	18	6	12	-30	3	20	60
K0637.10408201	K0637.10508201	8	M20x1,5	20	70	50	35	18	6	12	-30	2,3	20	60
K0637.10410201	K0637.10510201	10	M20x1,5	20	70	50	35	18	6	12	-30	2,8	20	60
K0637.10412201	K0637.10512201	12	M20x1,5	20	70	50	35	18	6	12	-30	3	20	60



Cam-action indexing plungers

with stop



Material:

Steel grade 5.8.

Version:

Black oxidised.
Pin hardened and ground.

Sample order:

K1284.1040616

Note:

Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.

A notch ensures that the handle remains in this position.

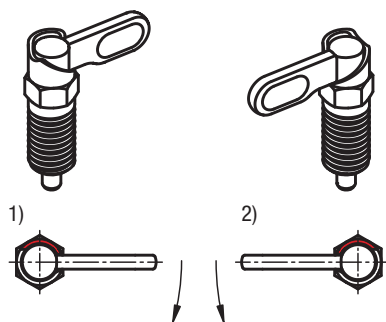
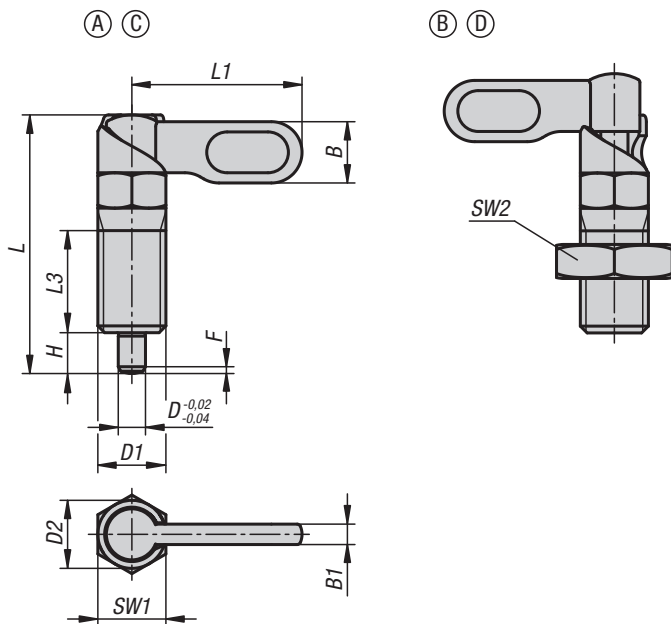
A stop prevents the handle being rotated through more than 180° ensuring that the pin remains retracted.

Selecting which side the stop is on defines the rotation direction of the plunger.

Drawing reference:

- Form A: grip uncoated without nut
- Form C: grip powder-coated without nut
- Form B: grip uncoated with nut
- Form D: grip powder-coated with nut

- 1) stop left
- 2) stop right



KIPP Cam action indexing plunger with stop

Order No. Form A	Order No. Form C	Version 2	D	D1	D2	L	L1	L3	B	B1	H	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1284.1040410	K1284.1060410	left	4	M10	10	38	25	15	9	3	6	10	1	8	14
K1284.1040510	K1284.1060510	left	5	M10	10	38	25	15	9	3	6	10	1,3	8	14
K1284.1040610	K1284.1060610	left	6	M10	10	38	25	15	9	3	6	10	1,8	8	14
K1284.1040512	K1284.1060512	left	5	M12	12	47,8	30	19	10,8	3,6	8	12	1,3	8	15
K1284.1040612	K1284.1060612	left	6	M12	12	47,8	30	19	10,8	3,6	8	12	1,8	8	15
K1284.1040812	K1284.1060812	left	8	M12	12	47,8	30	19	10,8	3,6	8	12	2,3	8	15
K1284.1040616	K1284.1060616	left	6	M16	16	60,4	40	26	14,4	4,8	10	16	1,8	15	35
K1284.1040816	K1284.1060816	left	8	M16	16	60,4	40	26	14,4	4,8	10	16	2,3	15	35
K1284.1041016	K1284.1061016	left	10	M16	16	60,4	40	26	14,4	4,8	10	16	2,8	15	35
K1284.10408201	K1284.10608201	left	8	M20x1,5	20	70	50	30	18	6	12	20	2,3	20	60
K1284.10410201	K1284.10610201	left	10	M20x1,5	20	70	50	30	18	6	12	20	2,8	20	60
K1284.10412201	K1284.10612201	left	12	M20x1,5	20	70	50	30	18	6	12	20	3	20	60

Order No. Form A	Order No. Form C	Version 2	D	D1	D2	L	L1	L3	B	B1	H	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1284.2040410	K1284.2060410	right	4	M10	10	38	25	15	9	3	6	10	1	8	14
K1284.2040510	K1284.2060510	right	5	M10	10	38	25	15	9	3	6	10	1,3	8	14
K1284.2040610	K1284.2060610	right	6	M10	10	38	25	15	9	3	6	10	1,8	8	14
K1284.2040512	K1284.2060512	right	5	M12	12	47,8	30	19	10,8	3,6	8	12	1,3	8	15
K1284.2040612	K1284.2060612	right	6	M12	12	47,8	30	19	10,8	3,6	8	12	1,8	8	15
K1284.2040812	K1284.2060812	right	8	M12	12	47,8	30	19	10,8	3,6	8	12	2,3	8	15
K1284.2040616	K1284.2060616	right	6	M16	16	60,4	40	26	14,4	4,8	10	16	1,8	15	35
K1284.2040816	K1284.2060816	right	8	M16	16	60,4	40	26	14,4	4,8	10	16	2,3	15	35
K1284.2041016	K1284.2061016	right	10	M16	16	60,4	40	26	14,4	4,8	10	16	2,8	15	35
K1284.20408201	K1284.20608201	right	8	M20x1,5	20	70	50	30	18	6	12	20	2,3	20	60
K1284.20410201	K1284.20610201	right	10	M20x1,5	20	70	50	30	18	6	12	20	2,8	20	60
K1284.20412201	K1284.20612201	right	12	M20x1,5	20	70	50	30	18	6	12	20	3	20	60

Order No. Form B	Order No. Form D	Version 2	D	D1	D2	L	L1	L3	B	B1	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1284.1050410	K1284.1070410	left	4	M10	10	38	25	15	9	3	6	10	17	1	8	14
K1284.1050510	K1284.1070510	left	5	M10	10	38	25	15	9	3	6	10	17	1,3	8	14
K1284.1050610	K1284.1070610	left	6	M10	10	38	25	15	9	3	6	10	17	1,8	8	14
K1284.1050512	K1284.1070512	left	5	M12	12	47,8	30	19	10,8	3,6	8	12	19	1,3	8	15
K1284.1050612	K1284.1070612	left	6	M12	12	47,8	30	19	10,8	3,6	8	12	19	1,8	8	15
K1284.1050812	K1284.1070812	left	8	M12	12	47,8	30	19	10,8	3,6	8	12	19	2,3	8	15
K1284.1050616	K1284.1070616	left	6	M16	16	60,4	40	26	14,4	4,8	10	16	24	1,8	15	35
K1284.1050816	K1284.1070816	left	8	M16	16	60,4	40	26	14,4	4,8	10	16	24	2,3	15	35
K1284.1051016	K1284.1071016	left	10	M16	16	60,4	40	26	14,4	4,8	10	16	24	2,8	15	35
K1284.10508201	K1284.10708201	left	8	M20x1,5	20	70	50	30	18	6	12	20	30	2,3	20	60
K1284.10510201	K1284.10710201	left	10	M20x1,5	20	70	50	30	18	6	12	20	30	2,8	20	60
K1284.10512201	K1284.10712201	left	12	M20x1,5	20	70	50	30	18	6	12	20	30	3	20	60
K1284.2050410	K1284.2070410	right	4	M10	10	38	25	15	9	3	6	10	17	1	8	14
K1284.2050510	K1284.2070510	right	5	M10	10	38	25	15	9	3	6	10	17	1,3	8	14
K1284.2050610	K1284.2070610	right	6	M10	10	38	25	15	9	3	6	10	17	1,8	8	14
K1284.2050512	K1284.2070512	right	5	M12	12	47,8	30	19	10,8	3,6	8	12	19	1,3	8	15
K1284.2050612	K1284.2070612	right	6	M12	12	47,8	30	19	10,8	3,6	8	12	19	1,8	8	15
K1284.2050812	K1284.2070812	right	8	M12	12	47,8	30	19	10,8	3,6	8	12	19	2,3	8	15
K1284.2050616	K1284.2070616	right	6	M16	16	60,4	40	26	14,4	4,8	10	16	24	1,8	15	35
K1284.2050816	K1284.2070816	right	8	M16	16	60,4	40	26	14,4	4,8	10	16	24	2,3	15	35
K1284.2051016	K1284.2071016	right	10	M16	16	60,4	40	26	14,4	4,8	10	16	24	2,8	15	35
K1284.20508201	K1284.20708201	right	8	M20x1,5	20	70	50	30	18	6	12	20	30	2,3	20	60
K1284.20510201	K1284.20710201	right	10	M20x1,5	20	70	50	30	18	6	12	20	30	2,8	20	60
K1284.20512201	K1284.20712201	right	12	M20x1,5	20	70	50	30	18	6	12	20	30	3	20	60



Cam-action indexing plungers

with stop, stainless steel



Material:

Stainless steel 1.4305.

Version:

Bright.

Indexing pin ground, not hardened.

Sample order:

K1285.1040616

Note:

Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.

A notch ensures that the handle remains in this position.

A stop prevents the handle being rotated through more than 180° ensuring that the pin remains retracted.

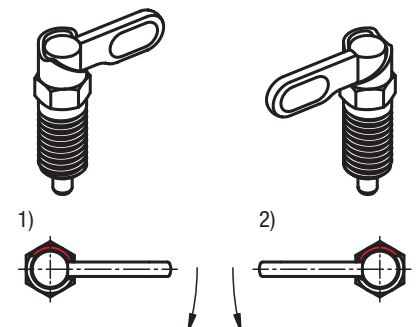
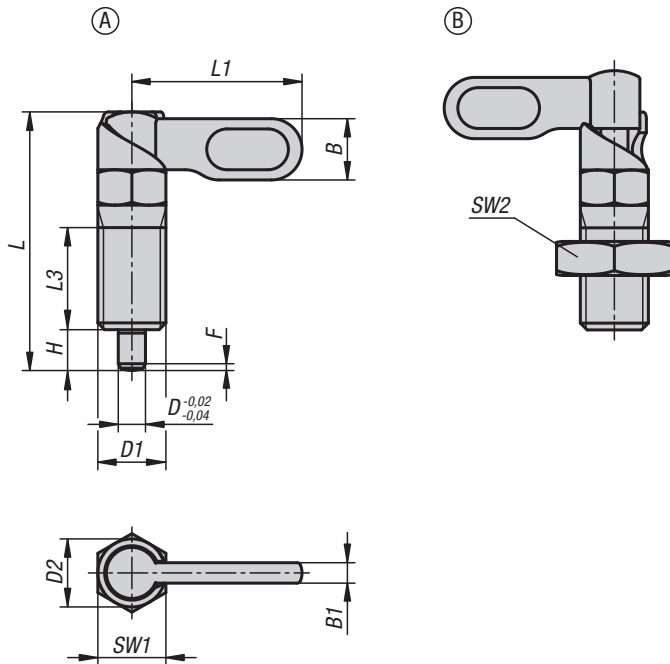
Selecting which side the stop is on defines the rotation direction of the plunger.

Drawing reference:

Form A: grip uncoated without nut

Form B: grip uncoated with nut

- 1) stop left
- 2) stop right



Cam-action indexing plungers

with stop, stainless steel



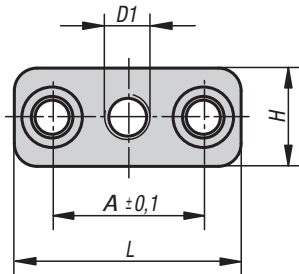
KIPP Cam action indexing plunger, stainless steel, with stop

Order No. Form A	Order No. Form B	Version 2	D	D1	D2	L	L1	L3	B	B1	H	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1285.1040410	K1285.1050410	left	4	M10	10	38	25	15	9	3	6	10	-17	1	8	14
K1285.1040510	K1285.1050510	left	5	M10	10	38	25	15	9	3	6	10	-17	1,3	8	14
K1285.1040610	K1285.1050610	left	6	M10	10	38	25	15	9	3	6	10	-17	1,8	8	14
K1285.1040512	K1285.1050512	left	5	M12	12	47,8	30	19	10,8	3,6	8	12	-19	1,3	8	15
K1285.1040612	K1285.1050612	left	6	M12	12	47,8	30	19	10,8	3,6	8	12	-19	1,8	8	15
K1285.1040812	K1285.1050812	left	8	M12	12	47,8	30	19	10,8	3,6	8	12	-19	2,3	8	15
K1285.1040616	K1285.1050616	left	6	M16	16	60,4	40	26	14,4	4,8	10	16	-24	1,8	15	35
K1285.1040816	K1285.1050816	left	8	M16	16	60,4	40	26	14,4	4,8	10	16	-24	2,3	15	35
K1285.1041016	K1285.1051016	left	10	M16	16	60,4	40	26	14,4	4,8	10	16	-24	2,8	15	35
K1285.10408201	K1285.10508201	left	8	M20x1,5	20	70	50	30	18	6	12	20	-30	2,3	20	60
K1285.10410201	K1285.10510201	left	10	M20x1,5	20	70	50	30	18	6	12	20	-30	2,8	20	60
K1285.10412201	K1285.10512201	left	12	M20x1,5	20	70	50	30	18	6	12	20	-30	3	20	60
K1285.2040410	K1285.2050410	right	4	M10	10	38	25	15	9	3	6	10	-17	1	8	14
K1285.2040510	K1285.2050510	right	5	M10	10	38	25	15	9	3	6	10	-17	1,3	8	14
K1285.2040610	K1285.2050610	right	6	M10	10	38	25	15	9	3	6	10	-17	1,8	8	14
K1285.2040512	K1285.2050512	right	5	M12	12	47,8	30	19	10,8	3,6	8	12	-19	1,3	8	15
K1285.2040612	K1285.2050612	right	6	M12	12	47,8	30	19	10,8	3,6	8	12	-19	1,8	8	15
K1285.2040812	K1285.2050812	right	8	M12	12	47,8	30	19	10,8	3,6	8	12	-19	2,3	8	15
K1285.2040616	K1285.2050616	right	6	M16	16	60,4	40	26	14,4	4,8	10	16	-24	1,8	15	35
K1285.2040816	K1285.2050816	right	8	M16	16	60,4	40	26	14,4	4,8	10	16	-24	2,3	15	35
K1285.2041016	K1285.2051016	right	10	M16	16	60,4	40	26	14,4	4,8	10	16	-24	2,8	15	35
K1285.20408201	K1285.20508201	right	8	M20x1,5	20	70	50	30	18	6	12	20	-30	2,3	20	60
K1285.20410201	K1285.20510201	right	10	M20x1,5	20	70	50	30	18	6	12	20	-30	2,8	20	60
K1285.20412201	K1285.20512201	right	12	M20x1,5	20	70	50	30	18	6	12	20	-30	3	20	60

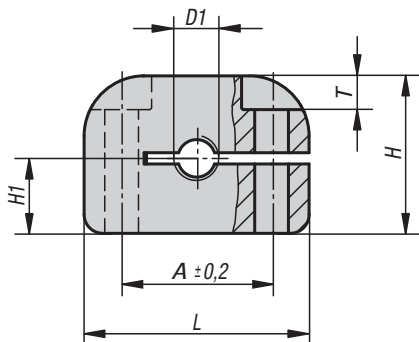
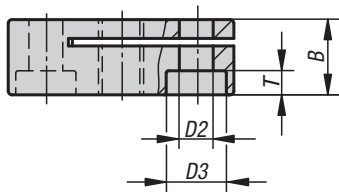


Mounting brackets

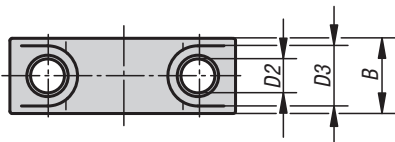
aluminium



Form A
Fastening holes
parallel to thread



Form B
Fastening holes
perpendicular to thread

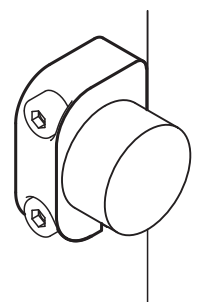
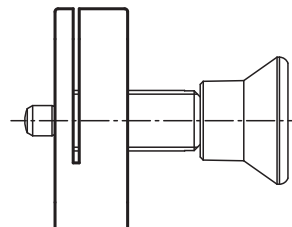
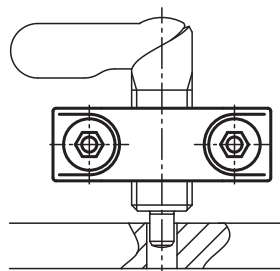


Material:
Aluminium 3.2163

Version:
black.

Sample order:
K0638.308

Note:
These mounting brackets are an assembly aid for cam-action and other indexing plungers and expand the application field. They can also be used with other elements that have a suitable thread.
Fastened using DIN 912 / ISO 4762 cap screws.



Mounting brackets

aluminium



KIPP Mounting bracket aluminium

Order No.	Form	D1	D2	D3	A	B	H	H1	L	T
K0638.306	A	M6	4,5	8	20	10	13	-	30	3,2
K0638.3061	A	M6x0,75	4,5	8	20	10	13	-	30	3,2
K0638.308	A	M8	4,5	8	20	10	13	-	30	3,2
K0638.3081	A	M8x1	4,5	8	20	10	13	-	30	3,2
K0638.310	A	M10	5,5	10	24	12	18	-	37	3,9
K0638.3101	A	M10x1	5,5	10	24	12	18	-	37	3,9
K0638.312	A	M12	5,5	10	24	12	18	-	37	3,9
K0638.3121	A	M12x1,5	5,5	10	24	12	18	-	37	3,9
K0638.316	A	M16	5,5	10	32	15	25	-	46	3,9
K0638.3161	A	M16x1,5	5,5	10	32	15	25	-	46	3,9
K0638.320	A	M20	5,5	10	32	15	25	-	46	3,9
K0638.3201	A	M20x1,5	5,5	10	32	15	25	-	46	3,9
K0638.406	B	M6	4,5	8	20	10	21	10	30	4,5
K0638.4061	B	M6x0,75	4,5	8	20	10	21	10	30	4,5
K0638.408	B	M8	4,5	8	20	10	21	10	30	4,5
K0638.4081	B	M8x1	4,5	8	20	10	21	10	30	4,5
K0638.410	B	M10	5,5	10	24	12	26	13	36	5,5
K0638.4101	B	M10x1	5,5	10	24	12	26	13	36	5,5
K0638.412	B	M12	5,5	10	24	12	26	13	36	5,5
K0638.4121	B	M12x1,5	5,5	10	24	12	26	13	36	5,5
K0638.416	B	M16	5,5	10	32	15	29	17	46	5,5
K0638.4161	B	M16x1,5	5,5	10	32	15	29	17	46	5,5
K0638.420	B	M20	5,5	10	32	15	29	17	46	5,5
K0638.4201	B	M20x1,5	5,5	10	32	15	29	17	46	5,5



Mounting brackets

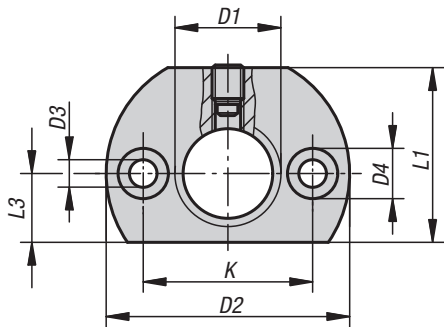


Material:
Steel.

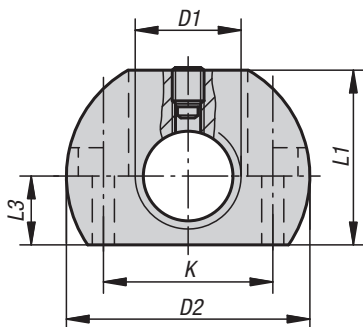
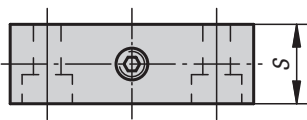
Version:
Black oxidised.

Sample order:
K0638.116

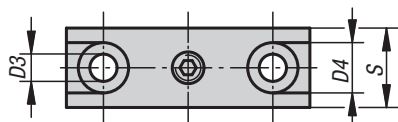
Note:
These mounting brackets are assembly aids for cam-action indexing plungers and extend their application field. They can also be used with other indexing plungers or other elements that have a suitable thread. Fastened using cap screws.



Form A
fastening holes parallel
to indexing plunger



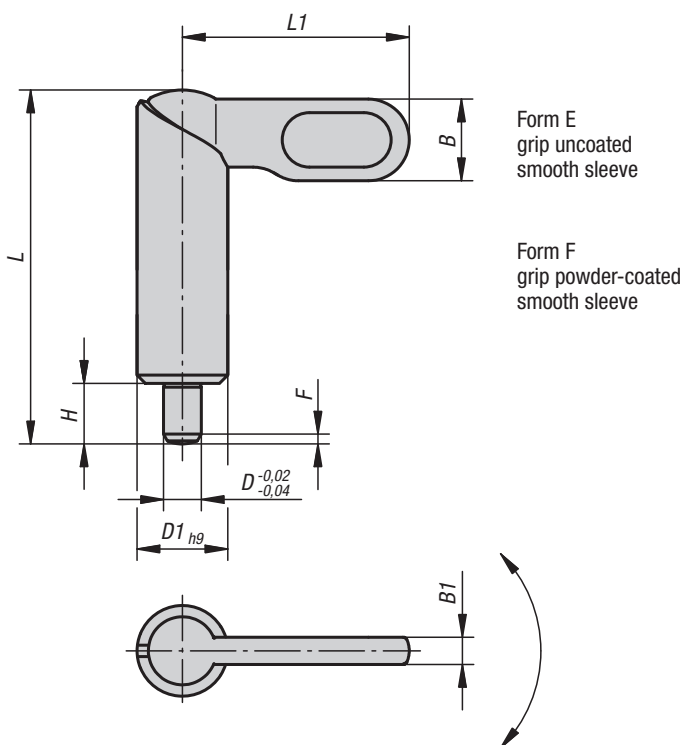
Form B
fastening holes perpendicular
to indexing plunger



KIPP Mounting brackets

Order No.	Form	D1	D2	D3	D4	K	L1	L3	S
K0638.112	A	M12	36	5,5	10	24	25	10	12
K0638.1121	A	M12x1,5	36	5,5	10	24	25	10	12
K0638.116	A	M16	46	5,5	10	32	33	13	15
K0638.1161	A	M16x1,5	46	5,5	10	32	33	13	15
K0638.120	A	M20	46	5,5	10	32	33	13	15
K0638.1201	A	M20x1,5	46	5,5	10	32	33	13	15
K0638.212	B	M12	36	5,5	10	24	25	10	12
K0638.2121	B	M12x1,5	36	5,5	10	24	25	10	12
K0638.216	B	M16	46	5,5	10	32	33	13	15
K0638.2161	B	M16x1,5	46	5,5	10	32	33	13	15
K0638.220	B	M20	46	5,5	10	32	33	13	15
K0638.2201	B	M20x1,5	46	5,5	10	32	33	13	15

Cam-action indexing plungers



Material:

Handle 1.0503.
Pin steel grade 5.8.
Sleeve 1.0403 weldable.

Version:

Black oxidised.
Pin hardened and ground.

Sample order:

K0639.091220

Note:

Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin. A notch ensures that the handle remains in this position. To weld the plungers we recommend inert gas shielded welding with TIG welding equipment.

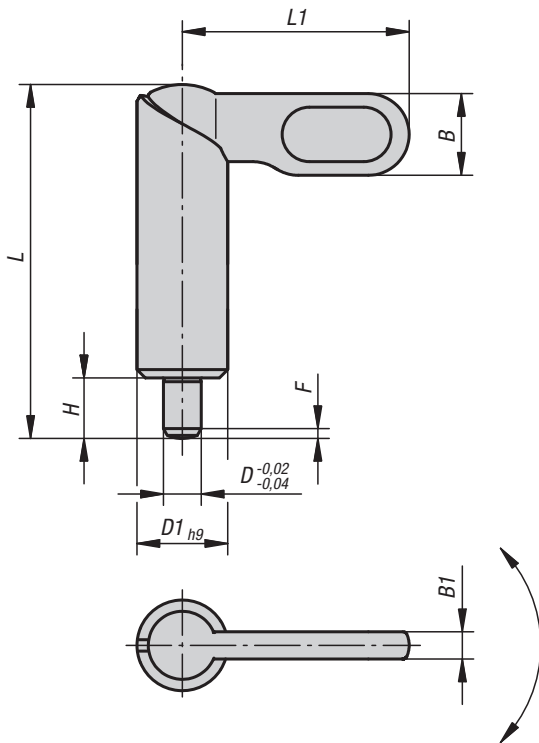
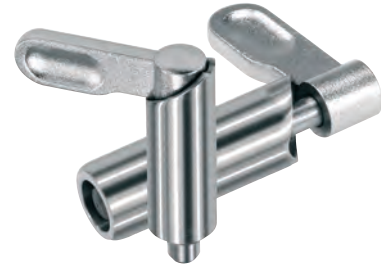
KIPP Cam-action indexing plungers

Order No. Form E	Order No. Form F	D	D1	L	L1	B	B1	H	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0639.080410	K0639.090410	4	10	38	25	9	3	6	1	8	14
K0639.080510	K0639.090510	5	10	38	25	9	3	6	1,3	8	14
K0639.080610	K0639.090610	6	10	38	25	9	3	6	1,8	8	14
K0639.080512	K0639.090512	5	12	46,8	30	10,8	3,6	8	1,3	8	15
K0639.080612	K0639.090612	6	12	46,8	30	10,8	3,6	8	1,8	8	15
K0639.080812	K0639.090812	8	12	46,8	30	10,8	3,6	8	2,3	8	15
K0639.080616	K0639.090616	6	16	60,4	40	14,4	4,8	10	1,8	15	35
K0639.080816	K0639.090816	8	16	60,4	40	14,4	4,8	10	2,3	15	35
K0639.081016	K0639.091016	10	16	60,4	40	14,4	4,8	10	2,8	15	35
K0639.080820	K0639.090820	8	20	70	50	18	6	12	2,3	20	60
K0639.081020	K0639.091020	10	20	70	50	18	6	12	2,8	20	60
K0639.081220	K0639.091220	12	20	70	50	18	6	12	3	20	60



Cam-action indexing plungers

stainless steel



Form E
grip uncoated
smooth sleeve

Material:

Handle stainless steel 1.4308.
Indexing pin stainless steel 1.4305.
Sleeve weldable stainless steel 1.4301.

Version:

Bright.
Indexing pin ground, not hardened.

Sample order:

K0640.1081220

Note:

Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin. A notch ensures that the handle remains in this position.

To weld the plungers we recommend inert gas shielded welding with TIG welding equipment.

KIPP Cam-action indexing plungers stainless steel

Order No.	Form	D	D1	L	L1	B	B1	H	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0640.1080410	E	4	10	38	25	9	3	6	1	8	14
K0640.1080510	E	5	10	38	25	9	3	6	1,3	8	14
K0640.1080610	E	6	10	38	25	9	3	6	1,8	8	14
K0640.1080512	E	5	12	46,8	30	10,8	3,6	8	1,3	8	15
K0640.1080612	E	6	12	46,8	30	10,8	3,6	8	1,8	8	15
K0640.1080812	E	8	12	46,8	30	10,8	3,6	8	2,3	8	15
K0640.1080616	E	6	16	60,4	40	14,4	4,8	10	1,8	15	35
K0640.1080816	E	8	16	60,4	40	14,4	4,8	10	2,3	15	35
K0640.1081016	E	10	16	60,4	40	14,4	4,8	10	2,8	15	35
K0640.1080820	E	8	20	70	50	18	6	12	2,3	20	60
K0640.1081020	E	10	20	70	50	18	6	12	2,8	20	60
K0640.1081220	E	12	20	70	50	18	6	12	3	20	60

Barrel slide bolts



Material:

Housing die-cast zinc.
Grip, underlay and slot tabs thermoplastic PA.
Bolt stainless steel.

Version:

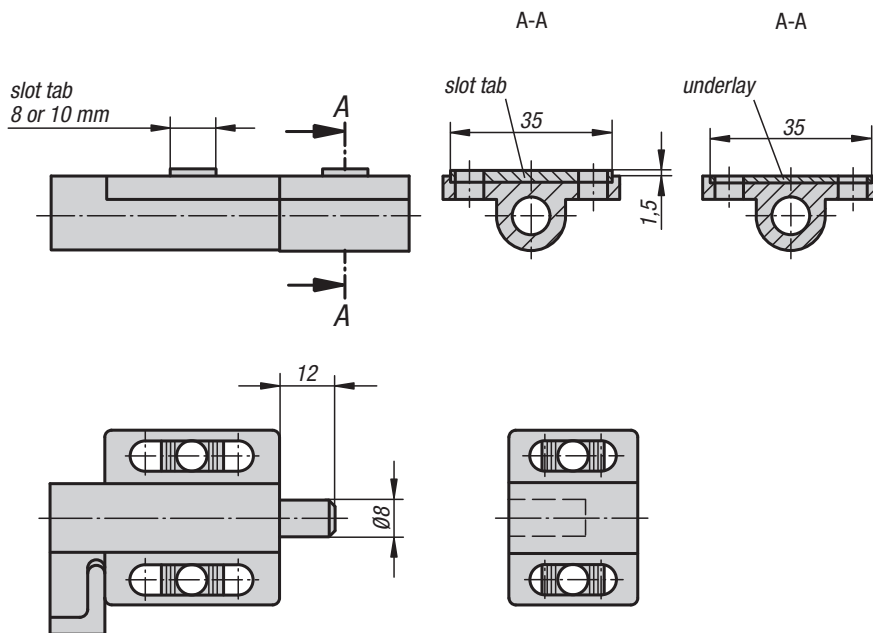
Housing painted silver.
Grip, underlay and slot tabs black.
Bolt bright.

Sample order:

K0349.38038028

Note:

Spring loaded bolt.
Supplied with:
- 2 underlays for mounting on level surfaces.
- 2 of each tabs for mounting on profiles with 8 or 10 mm slots.

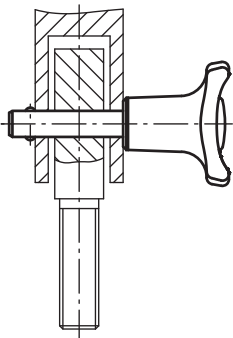
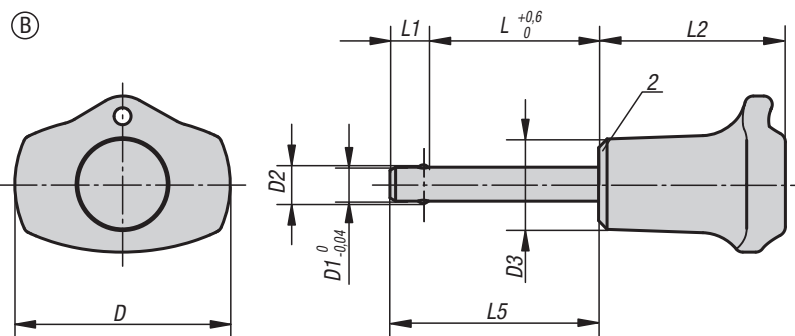
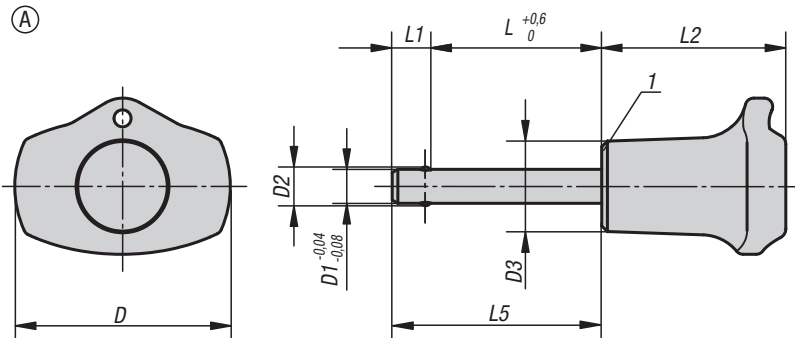


KIPP Barrel slide bolts

Order No.	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0349.38038028	5	15

Ball lock pins

self-locking



Material:

Grip and push button thermoplastic.
Metal parts stainless steel.

Version:

Grip black.
Push button traffic red.
Steel parts bright.

Sample order:

K0363.3806050
(include length L e.g. 050 for L = 50 mm.)

Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. Form A is suitable for applications where high demands and precision are required.

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

Features:

Form A:
Pin ground, metal collar, high axial pull-out force
Form B:
Pin h9, plastic collar, low axial pull-out force

Accessories:

Bushes for ball lock pins K0724
Safety spiral cable K0367
Retaining cable with loop K0367
Key ring K0367

Drawing reference:

1) Metal collar
2) Plastic collar

KIPP Ball lock pins, self-locking, Form A, metal collar

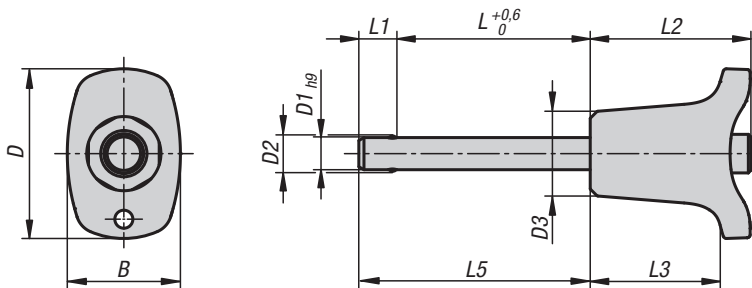
Order No.	D	D1	D2	D3	L	L1	L2	L5	Receiving hole H11	Shearing force double shear max.kN
K0363.3805***	38	5	5,5	16	10/15/20/25/30	6	32,5	16/21/26/31/36	5	15
K0363.3806***	38	6	6,85	16	10/15/20/25/30/35/40/45/50	7	32,5	17/22/27/32/37/42/47/52/57	6	22
K0363.3808***	38	8	9,5	16	20/25/30/35/40/45/50	8	32,5	28/33/38/43/48/53/58	8	38
K0363.4710***	47	10	12	23	20/25/30/35/40/45/50/60	9	40	29/34/39/44/49/54/59/69	10	60
K0363.4712***	47	12	14,5	23	25/30/35/40/45/50/60/70/80	10	40	35/40/45/50/55/60/70/80/90	12	86
K0363.4716***	47	16	19	23	30/35/40/45/50/60/70/80	13	40	43/48/53/58/63/73/83/93	16	153

KIPP Ball lock pins, self-locking, Form B, plastic collar

Order No.	D	D1	D2	D3	L	L1	L2	L5	Receiving hole H11	Shearing force double shear max.kN
K0363.13805***	38	5	5,5	16	15/20/25/30	5,9	33	20,9/25,9/30,9/35,9	5	15
K0363.13806***	38	6	6,85	16	30/40/50	6,8	33	36,8/46,8/56,8	6	22
K0363.13808***	38	8	9,5	16	30/40/50	7,8	33	37,8/47,8/57,8	8	38

Ball lock pins

self-locking



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 or traffic red RAL 3020.
 Stainless steel bright.

Sample order:

K0792.002606050
 (include length L e.g. 050 for L = 50 mm.)

Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

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

Accessories:

Bushes for ball lock pins K0724
 Safety spiral cable K0367
 Retaining cable with loop K0367
 Key ring K0367

KIPP Ball lock pins self-locking

Order No. black	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K0792.002605***	17,6	26,4	5	5,5	13,2	10/15/20/25/30	5,9	25	20,2	15,9/20,9/25,9/30,9/35,9	5	15
K0792.002606***	17,6	26,4	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	20,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	22
K0792.003308***	23	33,2	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	26,1	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	38
K0792.003310***	23	33,2	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	26,1	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	60
K0792.004612***	33	45,9	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	31,3	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	86
K0792.004616***	33	45,9	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	31,3	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	153

Order No. red	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K0792.00842605***	17,6	26,4	5	5,5	13,2	10/15/20/25/30	5,9	25	20,2	15,9/20,9/25,9/30,9/35,9	5	15
K0792.00842606***	17,6	26,4	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	20,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	22
K0792.00843308***	23	33,2	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	26,1	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	38
K0792.00843310***	23	33,2	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	26,1	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	60
K0792.00844612***	33	45,9	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	31,3	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	86
K0792.00844616***	33	45,9	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	31,3	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	153



Ball lock pins

with high shear strength



Material:

Grip thermoplastic.
 Push button 1.4305 stainless steel.
 Pin 1.4542 stainless steel.
 Balls 1.4125 stainless steel.
 Spring 1.4310 stainless steel wire.

Version:

Grip black or traffic red RAL 3020.
 Stainless steel bright.

Sample order:

K0792.012606050
 (include length L e.g. 050 for L = 50 mm.)

Note:

Ball lock pins are used for quick and easy fastening and joining of components.
 The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces.
 Release the button to lock the balls and secure the connection.

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

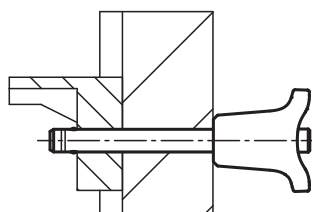
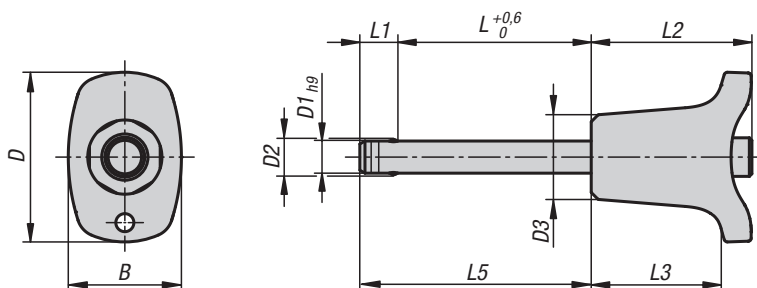
Ball lock pins with higher shear resistance have an identification groove on the pin.

Advantages:

Higher loading in comparison to standard ball lock pins.
 The pins made from 1.4542 stainless steel is hardened, has a higher shear resistance and is extremely durable.

Accessories:

Bushes for ball lock pins K0724
 Safety spiral cable K0367
 Retaining cable with loop K0367
 Key ring K0367



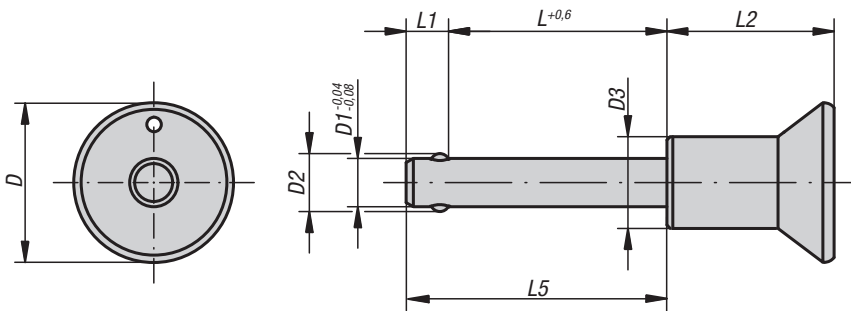
KIPP Ball lock pins with high shear strength

Order No. black	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.012605***	17,6	26,4	5	5,5	13,2	10/15/20/25/30	5,9	25	20,2	15,9/20,9/25,9/30,9/35,9	5	24
K0792.012606***	17,6	26,4	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	20,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	35
K0792.013308***	23	33,2	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	26,1	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	63
K0792.013310***	23	33,2	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	26,1	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	100
K0792.014612***	33	45,9	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	31,3	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	144
K0792.014616***	33	45,9	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	31,3	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	257

Order No. red	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.01842605***	17,6	26,4	5	5,5	13,2	10/15/20/25/30	5,9	25	20,2	15,9/20,9/25,9/30,9/35,9	5	24
K0792.01842606***	17,6	26,4	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	20,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	35
K0792.01843308***	23	33,2	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	26,1	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	63
K0792.01843310***	23	33,2	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	26,1	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	100
K0792.01844612***	33	45,9	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	31,3	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	144
K0792.01844616***	33	45,9	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	31,3	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	257

Ball lock pins

self-locking stainless steel



Material:

Metal parts stainless steel.

Version:

Bright.

Sample order:

K0364.3110030

(include length L e.g. 030 for L = 30 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces.

The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

Corrosion resistant.

Option for connecting retaining cable.

Application temperature max. +250 °C.

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

Accessories:

Bushes for ball lock pins K0724

Safety spiral cable K0367

Retaining cable with loop K0367

Key ring K0367

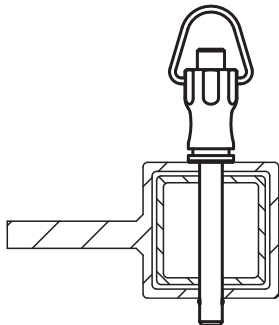
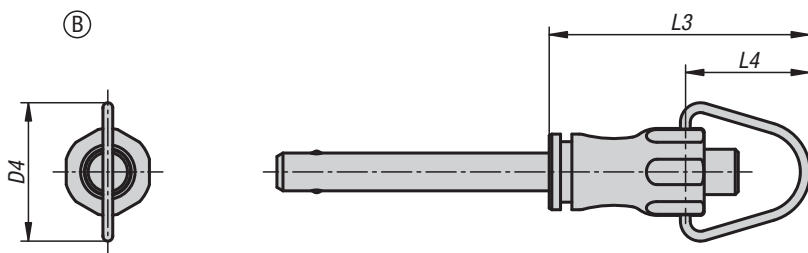
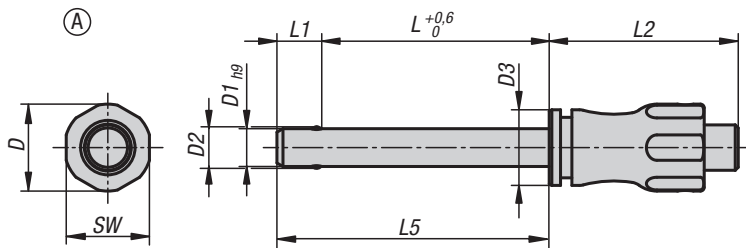


KIPP Ball lock pins self-locking stainless steel

Order No.	D	D1	D2	D3	L	L1	L2	L5	Receiving hole H11	Shearing force double shear max.kN
K0364.2305***	25	5	5,5	14	10/15/20/25/30	6	26,5	16/21/26/31/36	5	15
K0364.2306***	25	6	6,85	14	10/15/20/25/30/35/40/45/50	7	26,5	17/22/27/32/37/42/47/52/57	6	22
K0364.2308***	25	8	9,5	14	20/25/30/35/40/45/50	8	26,5	28/33/38/43/48/53/58	8	38
K0364.3110***	33	10	12	19	20/25/30/35/40/45/50/60	9	34,6	29/34/39/44/49/54/59/69	10	60
K0364.3112***	33	12	14,5	19	25/30/35/40/45/50/60/70/80	10	34,6	35/40/45/50/55/60/70/80/90	12	86
K0364.3116***	33	16	19	20	30/35/40/45/50/60/70/80	13,3	34,6	43,3/48,3/53,3/58,3/63,3/73,3/83,3/93,3	16	153

Ball lock pins

self-locking, stainless steel



Material:

Grip and push button 1.4305 stainless steel.

Pin 1.4305 stainless steel.

Balls 1.4125 stainless steel.

Spring and hanger 1.4310 stainless steel wire.

Version:

Bright.

Sample order:

K0790.001508050

(include length L e.g. 050 for L = 50 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of components.

The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

Accessories:

Bushes for ball lock pins K0724

Safety spiral cable K0367

Retaining cable with loop K0367

Key ring K0367

KIPP Ball lock pins self-locking, in stainless steel Form A

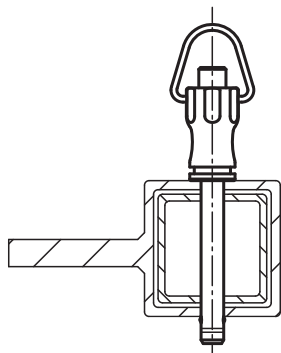
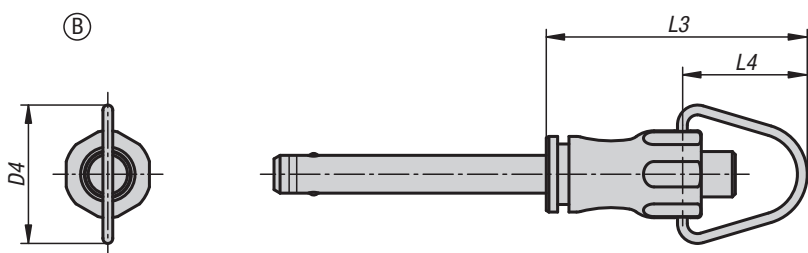
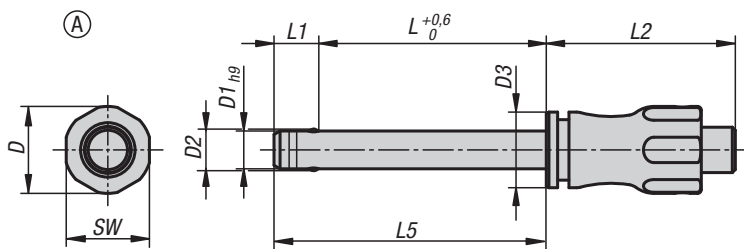
Order No. Form A	D	D1	D2	D3	L	L1	L2	L5	SW	Receiving hole H11	Shearing force double shear max.kN
K0790.001205***	11,5	5	5,5	10	10/15/20/25/30	5,9	25	15,9/20,9/25,9/30,9/35,9	11	5	15
K0790.001206***	11,5	6	6,85	10	10/15/20/25/30/35/40/45/50	6,8	25	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	11	6	22
K0790.001508***	15,5	8	9,5	13,5	20/25/30/35/40/45/50	7,8	33	27,8/32,8/37,8/42,8/47,8/52,8/57,8	15	8	38
K0790.001510***	15,5	10	12	13,5	20/25/30/35/40/45/50/60	8,9	33	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	15	10	60
K0790.002112***	22	12	14,5	20	25/30/35/40/45/50/60/70/80	9,9	39,5	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	21	12	86
K0790.002116***	22	16	19	20	30/35/40/45/50/60/70/80	13,1	39,5	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	21	16	153

KIPP Ball lock pins self-locking, in stainless steel Form B

Order No. Form B	D	D1	D2	D3	D4	L	L1	L2	L3	L4	L5	SW	Receiving hole H11	Shearing force double shear max.kN
K0790.101205***	11,5	5	5,5	10	18,3	10/15/20/25/30	5,9	25	34,6	16,6	15,9/20,9/25,9/30,9/35,9	11	5	15
K0790.101206***	11,5	6	6,85	10	18,3	10/15/20/25/30/35/40/45/50	6,8	25	34,6	16,6	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	11	6	22
K0790.101508***	15,5	8	9,5	13,5	24	20/25/30/35/40/45/50	7,8	33	46,7	22,7	27,8/32,8/37,8/42,8/47,8/52,8/57,8	15	8	38
K0790.101510***	15,5	10	12	13,5	24	20/25/30/35/40/45/50/60	8,9	33	46,7	22,7	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	15	10	60
K0790.102112***	22	12	14,5	20	33	25/30/35/40/45/50/60/70/80	9,9	39,5	59,3	30,3	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	21	12	86
K0790.102116***	22	16	19	20	33	30/35/40/45/50/60/70/80	13,1	39,5	59,3	30,3	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	21	16	153

Ball lock pins, stainless steel

with high shear strength



Material:

Grip and push button 1.4305 stainless steel.
Pin 1.4542 stainless steel.
Balls 1.4125 stainless steel.
Spring and hanger 1.4310 stainless steel wire.

Version:

Bright.

Sample order:

K0790.011508050
(include length L e.g. 050 for L = 50 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of components.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces.
Release the button to lock the balls and secure the connection.

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

Ball lock pins with higher shear resistance have an identification groove on the pin.

Advantages:

Higher loading in comparison to standard ball lock pins.
The pins made from 1.4542 stainless steel is hardened, has a higher shear resistance and is extremely durable.

Accessories:

- Adapter bushes for ball lock pins K0724.
- For Form B:
- Safety spiral cable K0367
- Retaining cable with eyelet K0367
- Key ring K0367

KIPP Ball lock pins, stainless steel, with high shear strength, Form A

Order No. Form A	D	D1	D2	D3	L	L1	L2	L5	SW	Receiver hole H11	Shearing force double shear max.kN
K0790.011205***	11,5	5	5,5	10	10/15/20/25/30	5,9	25	15,9/20,9/25,9/30,9/35,9	11	5	24
K0790.011206***	11,5	6	6,85	10	10/15/20/25/30/35/40/45/50	6,8	25	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	11	6	35
K0790.011508***	15,5	8	9,5	13,5	20/25/30/35/40/45/50	7,8	33	27,8/32,8/37,8/42,8/47,8/52,8/57,8	15	8	63
K0790.011510***	15,5	10	12	13,5	20/25/30/35/40/45/50/60	8,9	33	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	15	10	100
K0790.012112***	22	12	14,5	20	25/30/35/40/45/50/60/70/80	9,9	39,5	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	21	12	144
K0790.012116***	22	16	19	20	30/35/40/45/50/60/70/80	13,1	39,5	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	21	16	257

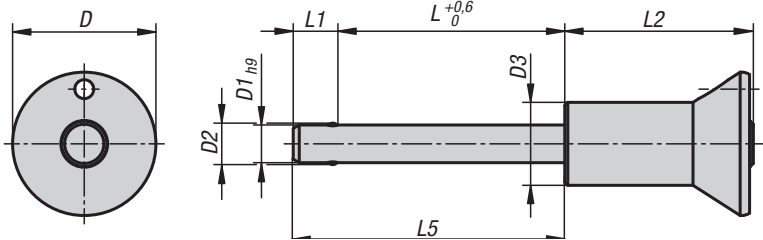
KIPP Ball lock pins, stainless steel, with high shear strength, Form B

Order No. Form B	D	D1	D2	D3	D4	L	L1	L2	L3	L4	L5	SW	Receiver hole H11	Shearing force double shear max.kN
K0790.111205***	11,5	5	5,5	10	18,3	10/15/20/25/30	5,9	25	34,6	16,6	15,9/20,9/25,9/30,9/35,9	11	5	24
K0790.111206***	11,5	6	6,85	10	18,3	10/15/20/25/30/35/40/45/50	6,8	25	34,6	16,6	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	11	6	35
K0790.111508***	15,5	8	9,5	13,5	24	20/25/30/35/40/45/50	7,8	33	46,7	22,7	27,8/32,8/37,8/42,8/47,8/52,8/57,8	15	8	63
K0790.111510***	15,5	10	12	13,5	24	20/25/30/35/40/45/50/60	8,9	33	46,7	22,7	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	15	10	100
K0790.112112***	22	12	14,5	20	33	25/30/35/40/45/50/60/70/80	9,9	39,5	59,3	30,3	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	21	12	144
K0790.112116***	22	16	19	20	33	30/35/40/45/50/60/70/80	13,1	39,5	59,3	30,3	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	21	16	257



Ball lock pins with mushroom grip

self-locking, stainless steel



Material:

Mushroom knob and push button stainless steel 1.4305.

Pin stainless steel 1.4305.

Balls stainless steel 1.4125.

Compression spring stainless steel 1.4310.

Version:

Bright.

Sample order:

K0791.02510050

(include length L e.g. 050 for L = 50 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of components.

The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

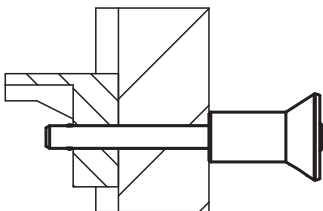
Accessories:

Bushes for ball lock pins K0724

Safety spiral cable K0367

Retaining cable with loop K0367

Key ring K0367

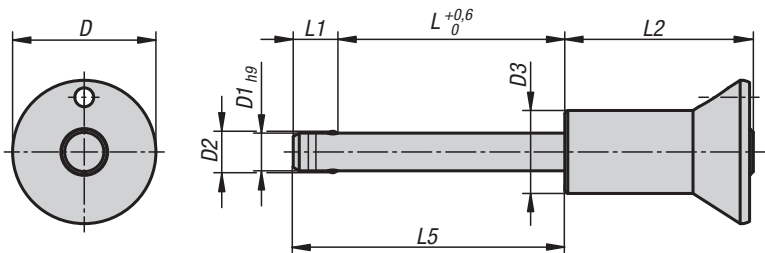


KIPP Ball lock pins with mushroom grip, self-locking, stainless steel

Order No.	D	D1	D2	D3	L	L1	L2	L5	Receiving hole H11	Shearing force double shear max.kN
K0791.01905***	19	5	5,5	11	10/15/20/25/30	5,9	25	15,9/20,9/25,9/30,9/35,9	5	15
K0791.01906***	19	6	6,85	11	10/15/20/25/30/35/40/45/50	6,8	25	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	22
K0791.02508***	25	8	9,5	14	20/25/30/35/40/45/50	7,8	33	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	38
K0791.02510***	25	10	12	14	20/25/30/35/40/45/50/60	8,9	33	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	60
K0791.03512***	35	12	14,5	22	25/30/35/40/45/50/60/70/80	9,9	39,5	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	86
K0791.03516***	35	16	19	22	30/35/40/45/50/60/70/80	13,1	39,5	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	153

Ball lock pins with mushroom grip, stainless steel

with high shear strength



Material:

Mushroom knob and push button stainless steel 1.4305.
 Pin stainless steel 1.4542.
 Balls stainless steel 1.4125.
 Compression spring stainless steel 1.4310.

Version:

Bright.

Sample order:

K0791.12510050
 (include length L e.g. 050 for L = 50 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of components. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

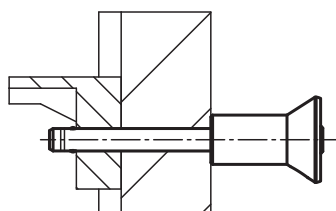
Ball lock pins with higher shear resistance have an identification groove on the pin.

Advantages:

Higher loading in comparison to standard ball lock pins. The pins made from 1.4542 stainless steel is hardened, has a higher shear resistance and is extremely durable.

Accessories:

- Bushes for ball lock pins K0724
- Safety spiral cable K0367
- Retaining cable with loop K0367
- Key ring K0367

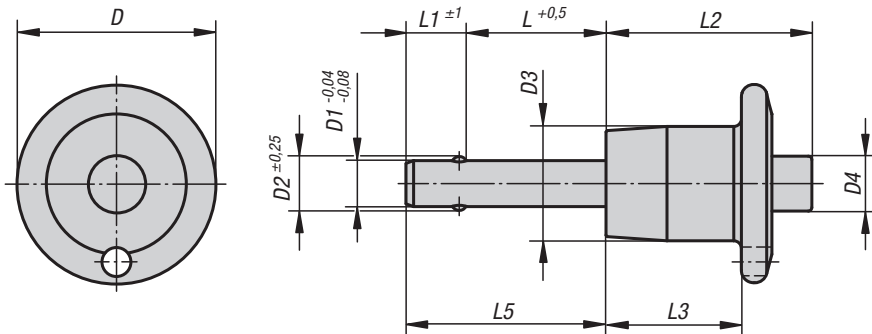


KIPP Ball lock pins with mushroom grip, stainless steel, with high shear strength

Order No.	D	D1	D2	D3	L	L1	L2	L5	Receiver hole H11	Shearing force double shear max.kN
K0791.11905***	19	5	5,5	11	10/15/20/25/30	5,9	25	15,9/20,9/25,9/30,9/35,9	5	24
K0791.11906***	19	6	6,85	11	10/15/20/25/30/35/40/45/50	6,8	25	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	35
K0791.12508***	25	8	9,5	14	20/25/30/35/40/45/50	7,8	33	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	63
K0791.12510***	25	10	12	14	20/25/30/35/40/45/50/60	8,9	33	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	100
K0791.13512***	35	12	14,5	22	25/30/35/40/45/50/60/70/80	9,9	39,5	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	144
K0791.13516***	35	16	19	22	30/35/40/45/50/60/70/80	13,1	39,5	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	257

Ball lock pins

with mushroom knob, self-locking, stainless steel



Material:

Pin stainless steel 1.4542.
Mushroom knob and push button stainless steel 1.4305.
Balls stainless steel 1.4125.
Compression spring stainless steel.

Version:

All stainless steel parts passivated.
Pin hardened to min. 40 HRC.
Balls hardened to 58 +4 HRC.

Sample order:

K0641.02105030
(include length L e.g. 030 for L = 30 mm.)

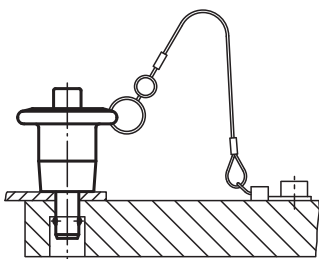
Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

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

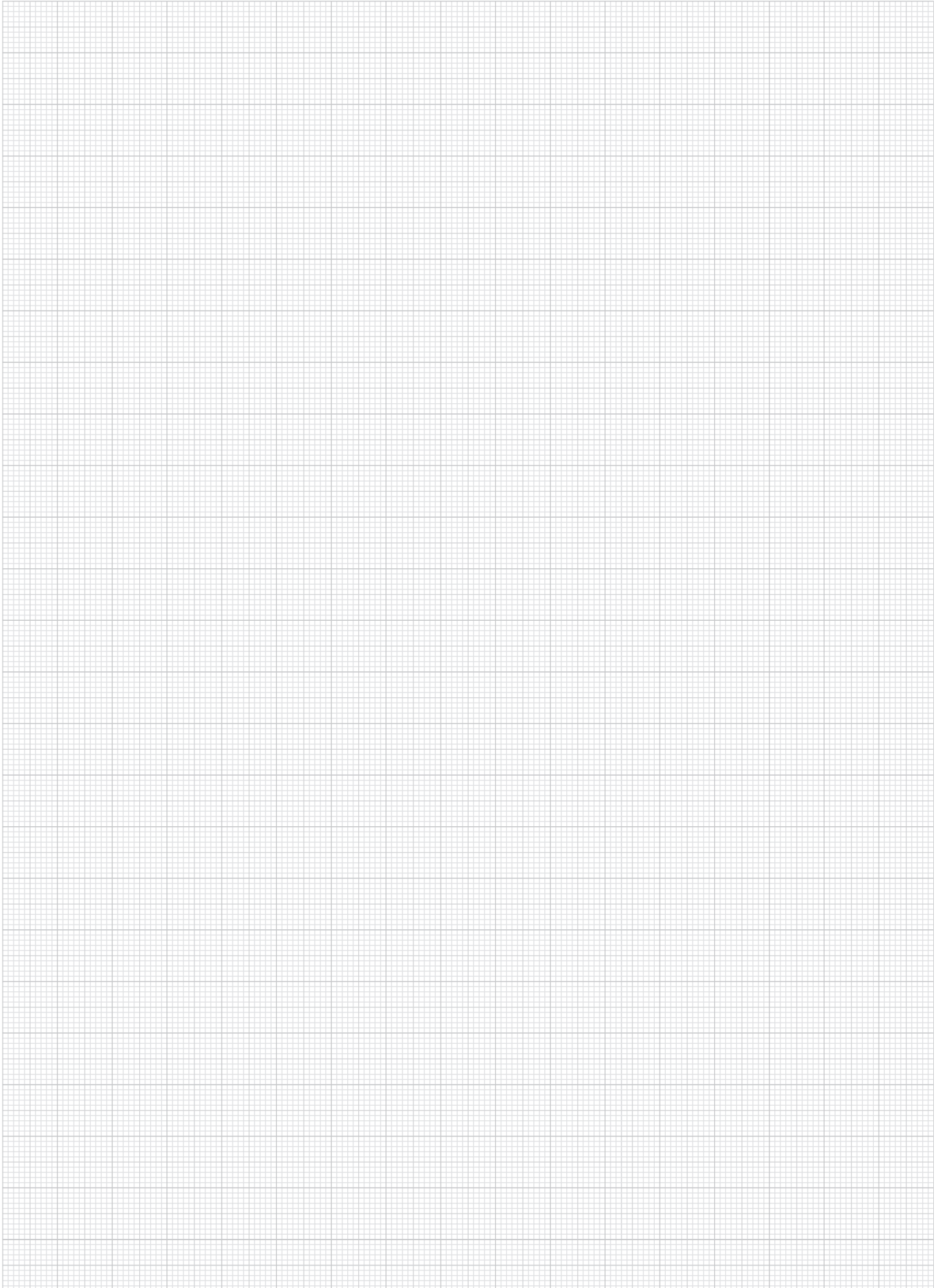
Accessories:

Bushes for ball lock pins K0724
Safety spiral cable K0367
Retaining cable with loop K0367
Key ring K0367



KIPP Ball lock pins with mushroom knob, self-locking, stainless steel

Order No.	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K0641.02105***	20,6	5	5,54	11,9	5,8	10/15/20/25/30/35/40/50/60/70	6	23,4	16	16/21/26/31/36/41/46/56/66/76	5	24,4
K0641.02106***	20,6	6	6,99	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	7	23,4	16	17/22/27/32/37/42/47/57/67/77/87	6	35,64
K0641.02108***	20,6	8	9,42	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	8	23,4	16	18/23/28/33/38/43/48/58/68/78/88	8	63,8
K0641.02510***	25,4	10	11,86	14,2	7,4	15/20/25/30/35/40/50/60/70/80/90/100	9	25,7	17,8	24/29/34/39/44/49/59/69/79/89/99/109	10	100,1
K0641.03512***	34,7	12	14,45	18,3	10,7	20/25/30/35/40/50/60/70/80/90/100	10	32,3	21,6	30/35/40/45/50/60/70/80/90/100/110	12	144,06



Ball lock pins with mushroom grip, stainless steel

with high shear strength, adjustable



Material:

Mushroom grip, locknut, adjusting nut and push button, 1.4305 stainless steel.

Pin, 1.4542 stainless steel.

Balls, 1.4125 stainless steel.

Compression spring, 1.4310 stainless steel.

Version:

Bright.

Sample order:

K1299.12510050

Note:

Ball lock pins are used for quick and easy fastening and joining of components.

The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces.

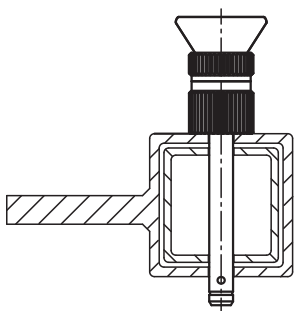
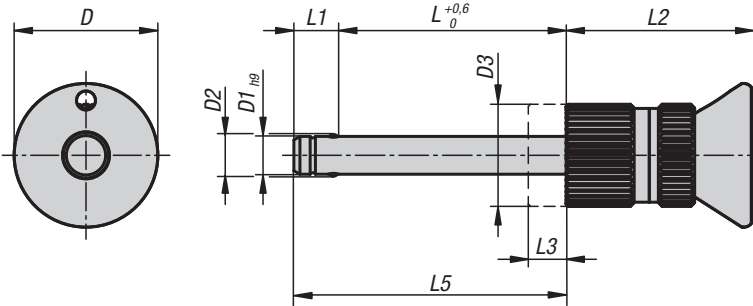
Release the button to lock the balls and secure the connection.

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

Ball lock pins with higher shear resistance have an identification groove on the pin.

Advantages:

- Higher loading in comparison to standard ball lock pins.
- The length range is infinitely adjustable using the locknut and adjustment nut. This enables play-free positioning on the workpiece.
- The pins made from 1.4542 stainless steel are hardened, have a higher shear resistance and are extremely durable.



Ball lock pins with mushroom grip, stainless steel

with high shear strength, adjustable



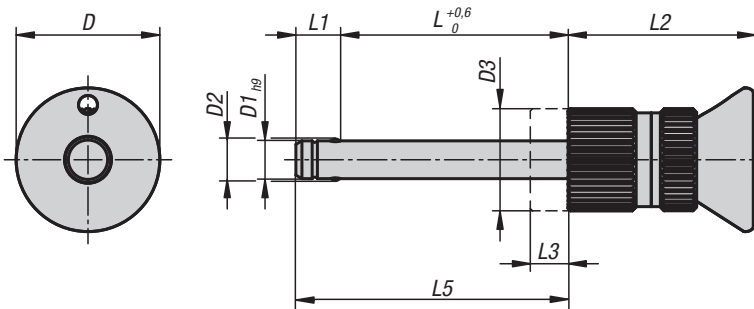
KIPP Ball lock pins with mushroom grip, stainless steel, with high shear strength, adjustable

Order No.	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K1299.11905010	19	5	5,5	13,5	2-10	5,9	25	8	7,9-15,9	5	24
K1299.11905015	19	5	5,5	13,5	7-15	5,9	25	8	12,9-20,9	5	24
K1299.11905020	19	5	5,5	13,5	12-20	5,9	25	8	17,9-25,9	5	24
K1299.11905025	19	5	5,5	13,5	17-25	5,9	25	8	22,9-30,9	5	24
K1299.11905030	19	5	5,5	13,5	22-30	5,9	25	8	27,9-35,9	5	24
K1299.11906010	19	6	6,85	13,5	2-10	6,8	25	8	8,8-16,8	6	35
K1299.11906015	19	6	6,85	13,5	7-15	6,8	25	8	13,8-21,8	6	35
K1299.11906020	19	6	6,85	13,5	12-20	6,8	25	8	18,8-26,8	6	35
K1299.11906025	19	6	6,85	13,5	17-25	6,8	25	8	23,8-31,8	6	35
K1299.11906030	19	6	6,85	13,5	22-30	6,8	25	8	28,8-36,8	6	35
K1299.11906035	19	6	6,85	13,5	27-35	6,8	25	8	33,8-41,8	6	35
K1299.11906040	19	6	6,85	13,5	32-40	6,8	25	8	38,8-46,8	6	35
K1299.11906045	19	6	6,85	13,5	37-45	6,8	25	8	43,8-51,8	6	35
K1299.11906050	19	6	6,85	13,5	42-50	6,8	25	8	48,8-56,8	6	35
K1299.12508020	25	8	9,5	17	10-20	7,8	33	10	17,8-27,8	8	63
K1299.12508025	25	8	9,5	17	15-25	7,8	33	10	22,8-32,8	8	63
K1299.12508030	25	8	9,5	17	20-30	7,8	33	10	27,8-37,8	8	63
K1299.12508035	25	8	9,5	17	25-35	7,8	33	10	32,8-42,8	8	63
K1299.12508040	25	8	9,5	17	30-40	7,8	33	10	37,8-47,8	8	63
K1299.12508045	25	8	9,5	17	35-45	7,8	33	10	42,8-52,8	8	63
K1299.12508050	25	8	9,5	17	40-50	7,8	33	10	47,8-57,8	8	63
K1299.12510020	25	10	12	17	10-20	8,9	33	10	18,9-28,9	10	100
K1299.12510025	25	10	12	17	15-25	8,9	33	10	23,9-33,9	10	100
K1299.12510030	25	10	12	17	20-30	8,9	33	10	28,9-38,9	10	100
K1299.12510035	25	10	12	17	25-35	8,9	33	10	33,9-43,9	10	100
K1299.12510040	25	10	12	17	30-40	8,9	33	10	38,9-48,9	10	100
K1299.12510045	25	10	12	17	35-45	8,9	33	10	43,9-53,9	10	100
K1299.12510050	25	10	12	17	40-50	8,9	33	10	48,9-58,9	10	100
K1299.12510060	25	10	12	17	50-60	8,9	33	10	58,9-68,9	10	100
K1299.13512025	35	12	14,5	26	13-25	9,9	39,5	12	22,9-34,9	12	144
K1299.13512030	35	12	14,5	26	18-30	9,9	39,5	12	27,9-39,9	12	144
K1299.13512035	35	12	14,5	26	13-35	9,9	39,5	12	22,9-44,9	12	144
K1299.13512040	35	12	14,5	26	28-30	9,9	39,5	12	37,9-39,9	12	144
K1299.13512045	35	12	14,5	26	33-45	9,9	39,5	12	42,9-54,9	12	144
K1299.13512050	35	12	14,5	26	38-50	9,9	39,5	12	47,9-59,9	12	144
K1299.13512060	35	12	14,5	26	48-60	9,9	39,5	12	57,9-69,9	12	144
K1299.13512070	35	12	14,5	26	58-70	9,9	39,5	12	67,9-79,9	12	144
K1299.13512080	35	12	14,5	26	68-80	9,9	39,5	12	77,9-89,9	12	144
K1299.13516030	35	16	19	26	18-30	13,1	39,5	12	31,1-43,1	16	257
K1299.13516035	35	16	19	26	23-35	13,1	39,5	12	36,1-48,1	16	257
K1299.13516040	35	16	19	26	28-40	13,1	39,5	12	41,1-53,1	16	257
K1299.13516045	35	16	19	26	33-45	13,1	39,5	12	46,1-58,1	16	257
K1299.13516050	35	16	19	26	38-50	13,1	39,5	12	51,1-63,1	16	257
K1299.13516060	35	16	19	26	48-60	13,1	39,5	12	61,1-73,1	16	257
K1299.13516070	35	16	19	26	58-70	13,1	39,5	12	71,1-83,1	16	257
K1299.13516080	35	16	19	26	68-80	13,1	39,5	12	81,1-93,1	16	257



Ball lock pins with mushroom grip

self-locking, stainless steel, adjustable



Material:

Mushroom grip, locknut, adjusting nut and push button, 1.4305 stainless steel.

Pin, 1.4305 stainless steel.

Balls, 1.4125 stainless steel.

Compression spring, 1.4310 stainless steel.

Version:

Bright.

Sample order:

K1299.02510050

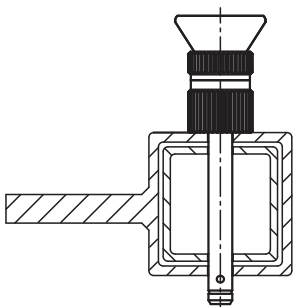
Note:

Ball lock pins are used for easy fastening or joining of components or workpieces.

The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

The length range is infinitely adjustable using the locknut and adjusting nut. This enables play-free positioning on the workpiece.

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



Ball lock pins with mushroom grip

self-locking, stainless steel, adjustable

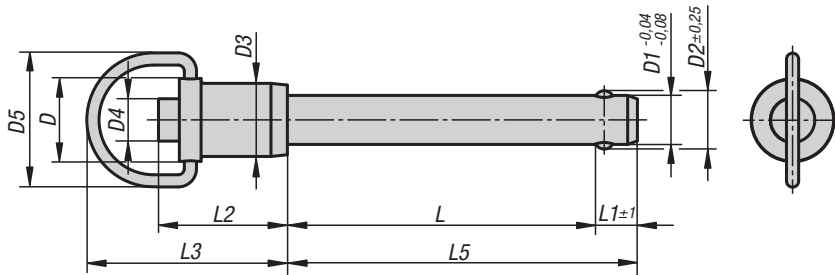
KIPP Ball lock pins with mushroom grip, self-locking, stainless steel, adjustable

Order No.	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K1299.01905010	19	5	5,5	13,5	2-10	5,9	25	8	7,9-15,9	5	15
K1299.01905015	19	5	5,5	13,5	7-15	5,9	25	8	12,9-20,9	5	15
K1299.01905020	19	5	5,5	13,5	12-20	5,9	25	8	17,9-25,9	5	15
K1299.01905025	19	5	5,5	13,5	17-25	5,9	25	8	22,9-30,9	5	15
K1299.01905030	19	5	5,5	13,5	22-30	5,9	25	8	27,9-35,9	5	15
K1299.01906010	19	6	6,85	13,5	2-10	6,8	25	8	8,8-16,8	6	22
K1299.01906015	19	6	6,85	13,5	7-15	6,8	25	8	13,8-21,8	6	22
K1299.01906020	19	6	6,85	13,5	12-20	6,8	25	8	18,8-26,8	6	22
K1299.01906025	19	6	6,85	13,5	17-25	6,8	25	8	23,8-31,8	6	22
K1299.01906030	19	6	6,85	13,5	22-30	6,8	25	8	28,8-36,8	6	22
K1299.01906035	19	6	6,85	13,5	27-35	6,8	25	8	33,8-41,8	6	22
K1299.01906040	19	6	6,85	13,5	32-40	6,8	25	8	38,8-46,8	6	22
K1299.01906045	19	6	6,85	13,5	37-45	6,8	25	8	43,8-51,8	6	22
K1299.01906050	19	6	6,85	13,5	42-50	6,8	25	8	48,8-56,8	6	22
K1299.02508020	25	8	9,5	17	10-20	7,8	33	10	17,8-27,8	8	38
K1299.02508025	25	8	9,5	17	15-25	7,8	33	10	22,8-32,8	8	38
K1299.02508030	25	8	9,5	17	20-30	7,8	33	10	27,8-37,8	8	38
K1299.02508035	25	8	9,5	17	25-35	7,8	33	10	32,8-42,8	8	38
K1299.02508040	25	8	9,5	17	30-40	7,8	33	10	37,8-47,8	8	38
K1299.02508045	25	8	9,5	17	35-45	7,8	33	10	42,8-52,8	8	38
K1299.02508050	25	8	9,5	17	40-50	7,8	33	10	47,8-57,8	8	38
K1299.02510020	25	10	12	17	10-20	8,9	33	10	18,9-28,9	10	60
K1299.02510025	25	10	12	17	15-25	8,9	33	10	23,9-33,9	10	60
K1299.02510030	25	10	12	17	20-30	8,9	33	10	28,9-38,9	10	60
K1299.02510035	25	10	12	17	25-35	8,9	33	10	33,9-43,9	10	60
K1299.02510040	25	10	12	17	30-40	8,9	33	10	38,9-48,9	10	60
K1299.02510045	25	10	12	17	35-45	8,9	33	10	43,9-53,9	10	60
K1299.02510050	25	10	12	17	40-50	8,9	33	10	48,9-58,9	10	60
K1299.02510060	25	10	12	17	50-60	8,9	33	10	58,9-68,9	10	60
K1299.03512025	35	12	14,5	26	13-25	9,9	39,5	12	22,9-34,9	12	86
K1299.03512030	35	12	14,5	26	18-30	9,9	39,5	12	27,9-39,9	12	86
K1299.03512035	35	12	14,5	26	23-35	9,9	39,5	12	32,9-44,9	12	86
K1299.03512040	35	12	14,5	26	28-40	9,9	39,5	12	37,9-49,9	12	86
K1299.03512045	35	12	14,5	26	33-45	9,9	39,5	12	42,9-54,9	12	86
K1299.03512050	35	12	14,5	26	38-50	9,9	39,5	12	47,9-59,9	12	86
K1299.03512060	35	12	14,5	26	48-60	9,9	39,5	12	57,9-69,9	12	86
K1299.03512070	35	12	14,5	26	58-70	9,9	39,5	12	67,9-79,9	12	86
K1299.03512080	35	12	14,5	26	68-80	9,9	39,5	12	77,9-89,9	12	86
K1299.03516030	35	16	19	26	18-30	13,1	39,5	12	31,1-43,1	16	153
K1299.03516035	35	16	19	26	23-35	13,1	39,5	12	36,1-48,1	16	153
K1299.03516040	35	16	19	26	28-40	13,1	39,5	12	41,1-53,1	16	153
K1299.03516045	35	16	19	26	33-45	13,1	39,5	12	46,1-58,1	16	153
K1299.03516050	35	16	19	26	38-50	13,1	39,5	12	51,1-63,1	16	153
K1299.03516060	35	16	19	26	48-60	13,1	39,5	12	61,1-73,1	16	153
K1299.03516070	35	16	19	26	58-70	13,1	39,5	12	71,1-83,1	16	153
K1299.03516080	35	16	19	26	68-80	13,1	39,5	12	81,1-93,1	16	153



Ball lock pins

with grip ring, self-locking, stainless steel



Material:

Pin stainless steel 1.4542.
 Head and push button stainless steel 1.4305.
 Balls stainless steel 1.4125.
 Spring stainless steel.
 Grip ring and key ring stainless steel.

Version:

All stainless steel parts passivated.
 Pin, hardened to min. 40 HRC.
 Balls hardened to 58 +4 HRC.

Sample order:

K0746.01505030
 (Include length L e.g. 030 for L = 30 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. The ball lock pins can be provided with a retaining cable if required.

The hardened, high-tensile stainless steel pin permits extreme loads with low wear. The high corrosion and acid resistance allow use in the foodstuff, chemical and petrochemical industries and as aerospace construction elements.

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

Accessories:

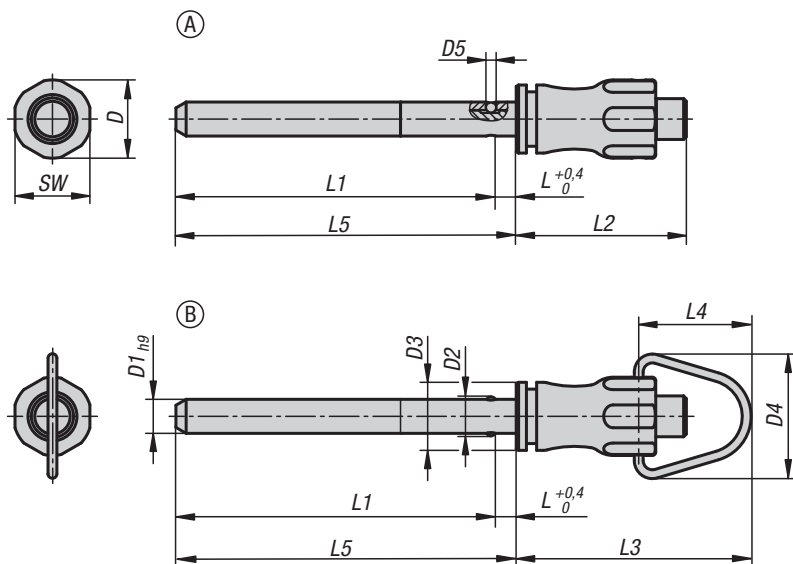
Safety spiral cable K0367.10200
 Retaining cable with loop K0367.
 Key ring K0367.15/19/23
 Bushing for ball lock pins K0724....

KIPP Ball lock pins with grip ring, self-locking, stainless steel

Order No.	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0746.01505***	15	5	5,54	11,9	5,8	29,5	10/15/20/25/30/35/40/45/50/60/70/80/90/100	6	23,4	36,8	16	5	24,4
K0746.01506***	15	6	6,99	11,9	5,8	29,5	10/15/20/25/30/35/40/45/50/60/70/80/90/100	7	23,4	36,8	17	6	35,64
K0746.01508***	15	8	9,42	11,9	5,8	29,5	10/15/20/25/30/35/40/45/50/60/70/80/90/100	8	23,4	36,8	18	8	63,8
K0746.01710***	16,5	10	11,86	14,2	7,4	29,5	15/20/25/30/35/40/45/50/60/70/80/90/100	9	25,7	38,6	24	10	100,1
K0746.02112***	20,6	12	14,45	18,3	10,7	36,3	20/25/30/35/40/45/50/60/70/80/90/100	10	32,3	47,8	30	12	144,06
K0746.02716***	26,9	16	19	23,9	13,7	43,7	25/30/35/40/45/50/60/70/80/90/100	14	41,9	65,3	39	16	257,18

Ball lock pins

stainless steel, with headend lock



Material:

Grip and push button 1.4305 stainless steel.
 Pin 1.4305 stainless steel.
 Balls 1.4125 stainless steel.
 Spring and hanger 1.4310 stainless steel wire.

Version:

Bright.

Sample order:

K1414.001205050
 (include length L5, e.g. 050 for L5 = 50 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of components.
 The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

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 K1416.
 For Form B:
 Safety spiral cable K0367
 Retaining cable with eyelet K0367
 Key ring K0367



KIPP Ball lock pins stainless steel, with head-end lock, Form A

Order No.	Form	D	D1	D2	D3	D5	L	L1	L2	L5	SW	Receiver hole H11	Shearing force double shear max.kN
K1414.001205***	A	11,5	5	5,5	10	1,5	3	47/97/147	25	50/100/150	11	5	10
K1414.001206***	A	11,5	6	6,85	10	2	3	47/97/147	25	50/100/150	11	6	14
K1414.001508***	A	15,5	8	9,5	13,5	3	3,5	96,5/146,5/196,5	33	100/150/200	15	8	26
K1414.001510***	A	15,5	10	12	13,5	4	3,5	96,5/146,5/196,5	33	100/150/200	15	10	40
K1414.002112***	A	22	12	14,5	20	4,5	3,5	146,5/196,5/246,5	39,5	150/200/250	21	12	57
K1414.002116***	A	22	16	19	20	6,5	4	146/196/246	39,5	150/200/250	21	16	100

KIPP Ball lock pins, stainless steel, with head-end lock, Form B

Order No.	Form	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	L5	SW	Receiver hole H11	Shearing force double shear max.kN
K1414.101205***	B	11,5	5	5,5	10	18,3	1,5	3	47/97/147	25	34,6	16,6	50/100/150	11	5	10
K1414.101206***	B	11,5	6	6,85	10	18,3	2	3	47/97/147	25	34,6	16,6	50/100/150	11	6	14
K1414.101508***	B	15,5	8	9,5	13,5	24	3	3,5	96,5/146,5/196,5	33	46,7	22,7	100/150/200	15	8	26
K1414.101510***	B	15,5	10	12	13,5	24	4	3,5	96,5/146,5/196,5	33	46,7	22,7	100/150/200	15	10	40
K1414.102112***	B	22	12	14,5	20	33	4,5	3,5	146,5/196,5/246,5	39,5	59,3	30,3	150/200/250	21	12	57
K1414.102116***	B	22	16	19	20	33	6,5	4	146/196/246	39,5	59,3	30,3	150/200/250	21	16	100



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:

K1415.002605050
 (include length L5, e.g. 050 for L5 = 50 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of components. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

Advantages:

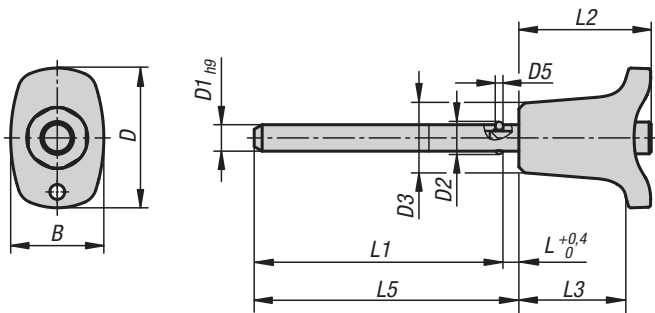
Wide connections possible.
 The pin length does not need to be coordinated with the component width.

On request:

Other pin lengths.

Accessories:

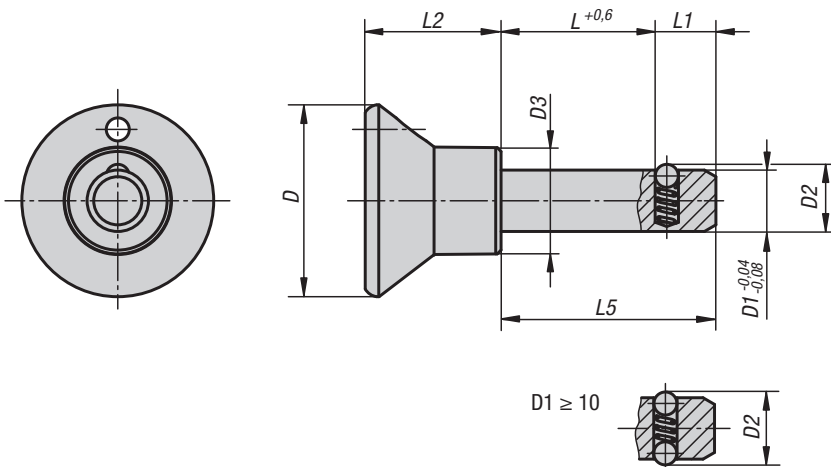
Adapter bushes for ball lock pins with head lock K1416.
 Safety spiral cable K0367
 Retaining cable with eyelet K0367
 Key ring K0367



KIPP Ball lock pins stainless steel, with head-end lock

Order No.	B	D	D1	D2	D3	D5	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K1415.0026***	17,6	26,4	5	5,5	13,2	1,5	3	47/97/147	25	20,2	50/100/150	5	10
K1415.0026***	17,6	26,4	6	6,85	13,2	2	3	47/97/147	25	20,2	50/100/150	6	14
K1415.0033***	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
K1415.0033***	23	33,2	10	12	17,3	4	3,5	96,5/146,5/196,5	33	26,1	100/150/200	10	40
K1415.0046***	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
K1415.0046***	33	45,9	16	19	26,3	6,5	4	146/196/246	39,5	31,3	150/200/250	16	100

Locking pins



Material:

Grip thermoplastic.
Steel parts stainless steel.

Version:

Grip black.
Stainless steel bright.

Sample order:

K0365.2508020
(include length L e.g. 020 for L = 20 mm)

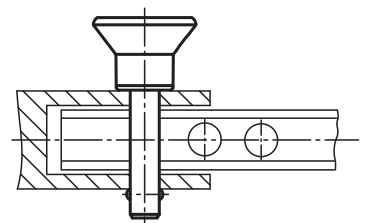
Note:

Locking pins are used for quick and easy fixating and joining of parts and workpieces.

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

Accessories:

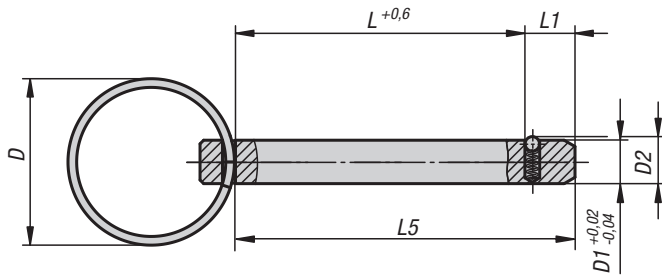
- Bushes for ball lock pins K0724
- Safety spiral cable K0367
- Retaining cable with loop K0367
- Key ring K0367



KIPP Locking pins

Order No.	D	D1	D2	D3	L	L1	L2	L5	Receiving hole H11	Shearing force double shear max.kN
K0365.2506***	25	6	6,5	14	10/15/20/25/30/40/50	7	17,7	17/22/27/32/37/47/57	6	22
K0365.2508***	25	8	8,75	14	15/20/25/30/40/50	8	17,7	23/28/33/38/48/58	8	38
K0365.3310***	33	10	12	19	15/20/25/30/40/50	9	24	24/29/34/39/49/59	10	60
K0365.3312***	33	12	14,5	19	20/30/40/50	10	24	30/40/50/60	12	86

Locking pins with key ring



Material:

Pin steel.
Key ring stainless steel.

Version:

Pins electro zinc-plated.
Key ring bright.

Sample order:

K0365.102306020

Note:

Locking pins are used for quick and easy fixating and joining of parts and workpieces.

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

The locking pins with key ring represent a cost-effective alternative to other locking pins.

KIPP Locking pins with key ring

Order No.	D	D1	D2	L	L1	L5	Shearing force double shear max.kN
K0365.102306015	23	6	6,5	15	7	22	22
K0365.102306020	23	6	6,5	20	7	27	22
K0365.102306030	23	6	6,5	30	7	37	22
K0365.102306040	23	6	6,5	40	7	47	22
K0365.102808030	28	8	8,8	30	8	38	38
K0365.102808040	28	8	8,8	40	8	48	38
K0365.102808050	28	8	8,8	50	8	58	38

Locking pins

with magnetic axial lock



Material:

Grip thermoplastic.
Steel parts 1.4305 stainless steel.
Magnet NdFeB.

Version:

Grip black.
Stainless steel bright.

Sample order:

K1216.3306030
(include length L e.g. 030 for L = 30 mm.)

Note:

The locking pins with magnetic axial lock are used for fast and easy fixating and joining of parts and workpieces. Magnets integrated into the grip ensure axial positioning and hold the locking pin in the inserted position.

Smooth surfaces and a perpendicular insertion bore have a positive effect on the retaining forces.

Optional retainer systems can be used to make the locking pins captive.

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

On request:

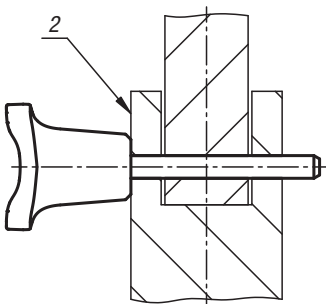
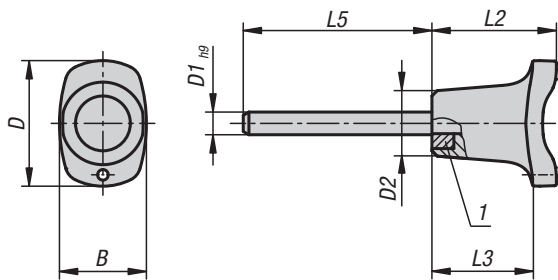
Other pin lengths.

Accessories:

Safety spiral cable K0367....
Retaining cable with loop K0367....
Key ring K0367....
Ball chains K1125....

Drawing reference:

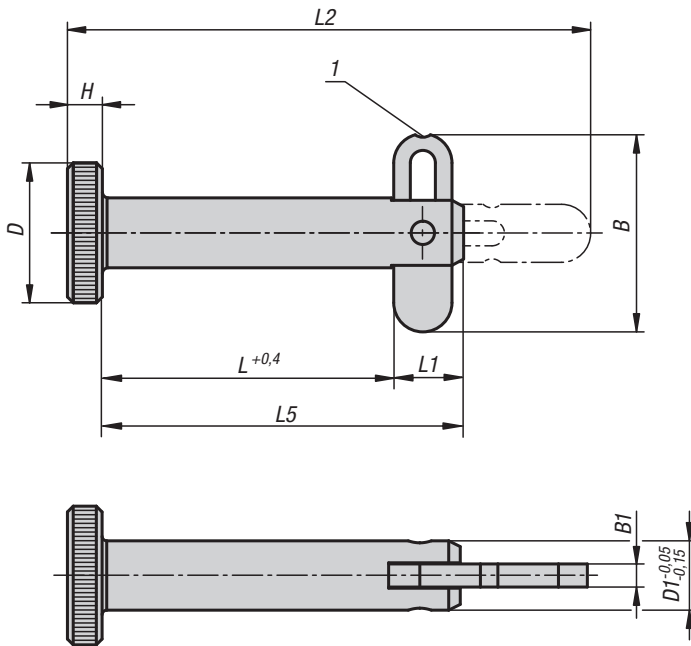
1) Magnet
2) Steel part/workpiece



KIPP Locking pin with magnetic axial lock

Order No.	B	D	D1	D2	L2	L3	L5	Receiving hole	Shearing force double shear max.kN	Clamping force ca. N
K1216.3306***	23	33,2	6	17,3	33	26,1	15/30/40/50/60/70/80	6	22	43
K1216.3308***	23	33,2	8	17,3	33	26,1	15/30/40/50/60/70/80	8	38	43
K1216.4610***	33	45,9	10	26,3	39,5	31,3	15/30/40/50/60/70/80	10	60	74
K1216.4612***	33	45,9	12	26,3	39,5	31,3	30/40/50/60/70/80	12	86	74

Locking pins with folding latch



Material:

Steel electro zinc-plated.

Sample order:

K0776.06025

Note:

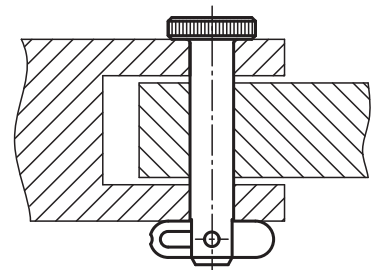
Locking pins with folding latch are not only used for fast and easy fixing but also for permanent joining of movable parts and workpieces.

The wide folding latch lets you secure the parts to be joined over a large cross section. It can also work under pressure in the axial direction.

Indexing slots in the folding latch allow definite "Closed" and "Open" positions.

Drawing reference:

1) locking slot



KIPP Locking pins with folding latch

Order No.	B	B1	D	D1	H	L	L1	L2	L5	Receiving hole H11	Shearing force double shear max.kN	Extraction force F N
K0776.06025	16,9	2	12	6	3	25	6	45	31	6	12	190
K0776.06040	16,9	2	12	6	3	40	6	60	46	6	12	190
K0776.06050	16,9	2	12	6	3	50	6	70	56	6	12	190
K0776.08025	16,9	2	16	8	4	25	6	46	31	8	21	270
K0776.08040	16,9	2	16	8	4	40	6	61	46	8	21	270
K0776.08050	16,9	2	16	8	4	50	6	71	56	8	21	270

Locking pins with axial lock



Material:
Steel.

Version:
Electro zinc-plated.

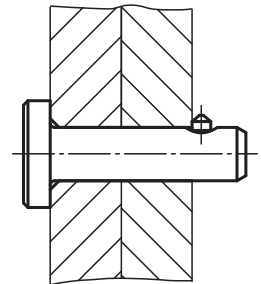
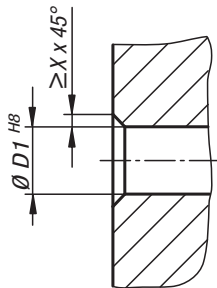
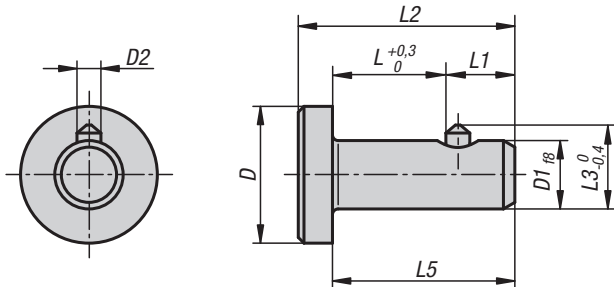
Sample order:
K0772.1206016

Note:
Locking pins are used for quick and easy fixating and joining of parts and workpieces.

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

Assembly:
Observe the assembly aid dimension X in the workpiece.

Drawing reference:
Chamfer for counterpart Xmin. x 45°

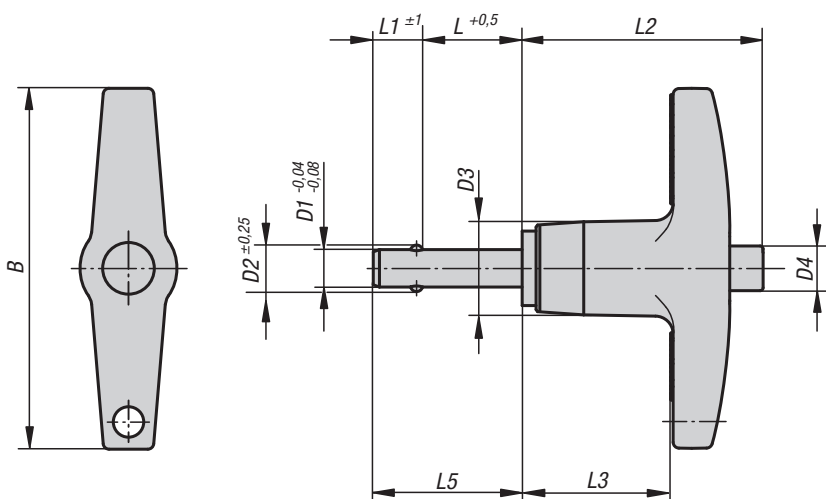


KIPP Locking pins with axial lock

Order No.	D	D1	D2	L	L1	L2	L3	L5	X	Shearing force double shear max.kN
K0772.1206010	12	6	2,1	10	6	19	7,4	16	1,1	12
K0772.1206012	12	6	2,1	12	6	21	7,4	18	1,1	12
K0772.1206016	12	6	2,1	16	6	25	7,4	22	1,1	12
K0772.1206020	12	6	2,1	20	6	29	7,4	26	1,1	12
K0772.1608012	16	8	2,1	12	6	22	9,4	18	1,1	22
K0772.1608016	16	8	2,1	16	6	26	9,4	22	1,1	22
K0772.1608020	16	8	2,1	20	6	30	9,4	26	1,1	22
K0772.1608025	16	8	2,1	25	6	35	9,4	31	1,1	22
K0772.2010012	20	10	2,8	12	8	24	11,8	20	1,2	35
K0772.2010016	20	10	2,8	16	8	28	11,8	24	1,2	35
K0772.2010020	20	10	2,8	20	8	32	11,8	28	1,2	35
K0772.2010025	20	10	2,8	25	8	37	11,8	33	1,2	35
K0772.2412016	24	12	2,8	16	8	29	13,8	24	1,2	51
K0772.2412020	24	12	2,8	20	8	33	13,8	28	1,2	51
K0772.2412025	24	12	2,8	25	8	38	13,8	33	1,2	51
K0772.2412030	24	12	2,8	30	8	43	13,8	38	1,2	51

Ball lock pins

with T-grip, self-locking



Material:

Pin 1.4542 stainless steel.
Grip die-cast aluminium EN-AC 46000.
Push button aluminium EN-AW 2024 T4.
Balls 1.4125 stainless steel.
Spring stainless steel wire.

Version:

All stainless steel parts passivated.
Pin hardened to min. 40 HRC.
Grip black anodised.
Push button blue anodised.
Balls hardened to 58 +4 HRC.

Sample order:

K0366.24605030
(include length L e.g. 030 for L = 30 mm.)

Note:

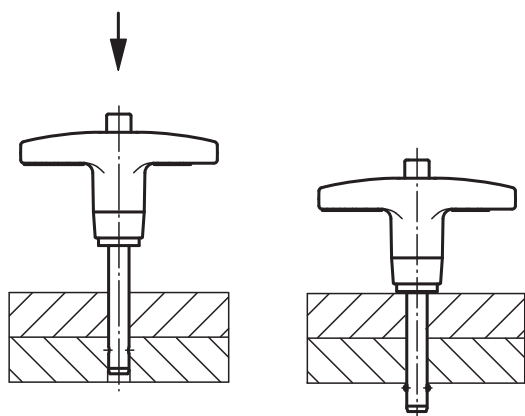
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. The ball lock pins can be provided with a retaining cable if required.

The hardened, high-tensile stainless steel pin permits extreme loads with low wear.

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

Accessories:

Bushes for ball lock pins K0724
Safety spiral cable K0367
Retaining cable with loop K0367
Key ring K0367



KIPP Ball lock pins with T-grip, self-locking

Order No.	B	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K0366.24605***	46	5	5,54	11,9	5,8	10/15/20/25/30/35/40/50/60/70	6	30,7	19,3	16/21/26/31/36/41/46/56/66/76	5	24,4
K0366.24606***	46	6	6,99	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	7	30,7	19,3	17/22/27/32/37/42/47/57/67/77/87	6	35,64
K0366.24608***	46	8	9,42	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	8	30,7	19,3	18/23/28/33/38/43/48/58/68/78/88	8	63,8
K0366.25110***	50,8	10	11,86	14,2	7,4	15/20/25/30/35/40/50/60/70/80/90/100	9	34,8	22,1	24/29/34/39/44/49/59/69/79/89/99/109	10	100,1
K0366.25812***	57,2	12	14,45	18,3	10,7	20/25/30/35/40/50/60/70/80/90/100	10	40,6	25,4	30/35/40/45/50/60/70/80/90/100/110	12	144,06
K0366.27816***	78	16	19	23,9	13,7	25/30/35/40/50/60/70/80/90/100	14	45	28,2	39/44/49/54/64/74/84/94/104/114	16	257,18

Ball lock pins

with T-grip, self-locking



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 or traffic red RAL 3020.
 Stainless steel bright.

Sample order:

K0792.204606050
 (include length L e.g. 050 for L = 50 mm.)

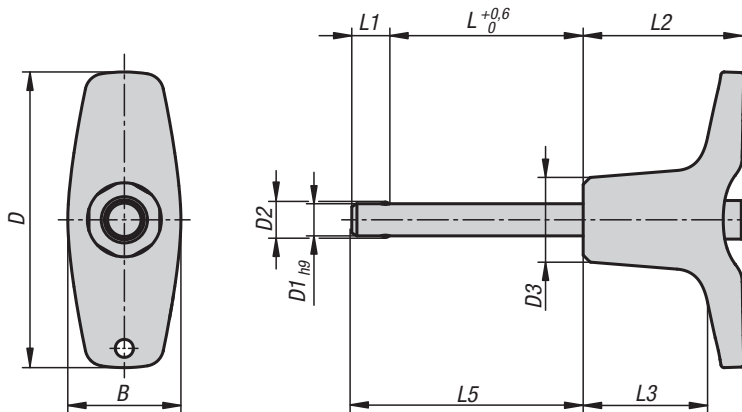
Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

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

Accessories:

Bushes for ball lock pins K0724
 Safety spiral cable K0367
 Retaining cable with loop K0367
 Key ring K0367



KIPP Ball lock pins with T-grip, self-locking

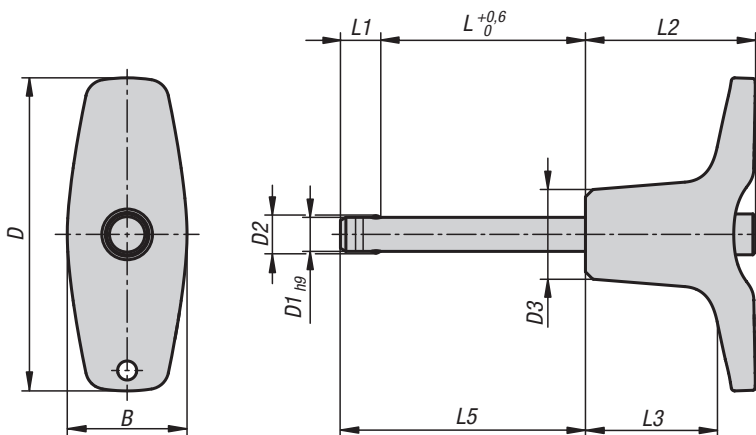
Order No. black	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.204605***	17,6	46	5	5,5	13,2	10/15/20/25/30	5,9	25	19,4	15,9/20,9/25,9/30,9/35,9	5	15
K0792.204606***	17,6	46	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	19,4	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	22
K0792.206308***	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	38
K0792.206310***	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	60
K0792.208212***	33	81,8	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	28,8	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	86
K0792.208216***	33	81,8	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	28,8	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	153

Order No. red	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.20844605***	17,6	46	5	5,5	13,2	10/15/20/25/30	5,9	25	19,4	15,9/20,9/25,9/30,9/35,9	5	15
K0792.20844606***	17,6	46	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	19,4	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	22
K0792.20846308***	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	38
K0792.20846310***	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	28,9/33,9/38,9/44,9/48,9/54,9/58,9/68,9	10	60
K0792.20848212***	33	81,8	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	28,8	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	86
K0792.20848216***	33	81,8	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	28,8	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	153



Ball lock pins with T-grip

with high shear strength



Material:

Grip thermoplastic.
 Push button 1.4305 stainless steel.
 Pin 1.4542 stainless steel.
 Balls 1.4125 stainless steel.
 Spring 1.4310 stainless steel wire.

Version:

Grip black or traffic red RAL 3020.
 Stainless steel bright.

Sample order:

K0792.214606050
 (include length L e.g. 050 for L = 50 mm.)

Note:

Ball lock pins are used for quick and easy fastening and joining of components.

The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

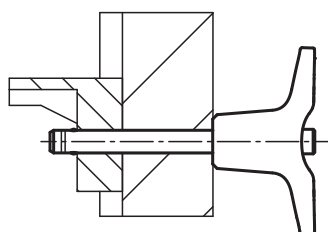
Ball lock pins with higher shear resistance have an identification groove on the pin.

Advantages:

Higher loading in comparison to standard ball lock pins. The pins made from 1.4542 stainless steel is hardened, has a higher shear resistance and is extremely durable.

Accessories:

Bushes for ball lock pins K0724
 Safety spiral cable K0367
 Retaining cable with loop K0367
 Key ring K0367



KIPP Ball lock pins with T-grip with high shear strength

Order No. black	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.214605***	17,6	46	5	5,5	13,2	10/15/20/25/30	5,9	25	19,4	15,9/20,9/25,9/30,9/35,9	5	24
K0792.214606***	17,6	46	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	19,4	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	35
K0792.216308***	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	63
K0792.216310***	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	100
K0792.218212***	33	81,8	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	28,8	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	144
K0792.218216***	33	81,8	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	28,8	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	257

Order No. red	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.21844605***	17,6	46	5	5,5	13,2	10/15/20/25/30	5,9	25	19,4	15,9/20,9/25,9/30,9/35,9	5	24
K0792.21844606***	17,6	46	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	19,4	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	35
K0792.21846308***	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	63
K0792.21846310***	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	100
K0792.21848212***	33	81,8	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	28,8	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	144
K0792.21848216***	33	81,8	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	28,8	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	257

Ball lock pins

with T-grip, self-locking



Material:

Grip die-cast zinc.
Steel parts 1.4305 stainless steel.

Version:

Grip black.
Stainless steel bright.

Sample order:

K0793.204606050
(include length L e.g. 050 for L = 50 mm.)

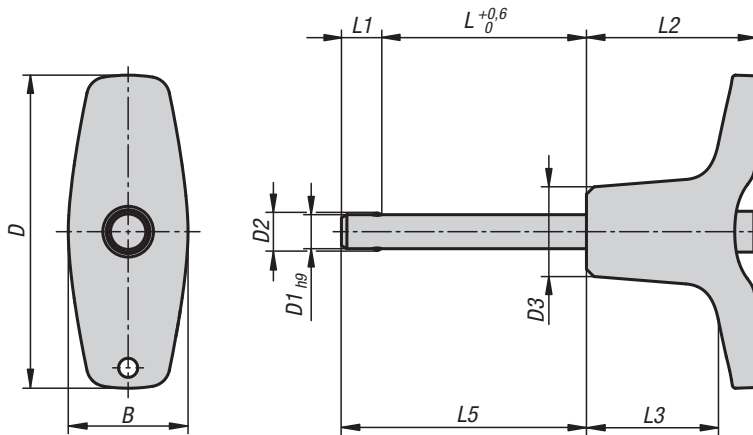
Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

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

Accessories:

- Bushes for ball lock pins K0724
- Safety spiral cable K0367
- Retaining cable with loop K0367
- Key ring K0367



KIPP Ball lock pins with T-grip, self-locking

Order No.	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K0793.204605***	17,6	46	5	5,5	13,2	10/15/20/25/30	5,9	25	19,4	15,9/20,9/25,9/30,9/35,9	5	15
K0793.204606***	17,6	46	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	19,4	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	22
K0793.206308***	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	38
K0793.206310***	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	60
K0793.208212***	33	81,8	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	28,8	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	86
K0793.208216***	33	81,8	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	28,8	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	153



Ball lock pins with T-grip

with high shear strength



Material:

Grip die-cast zinc.
 Push button 1.4305 stainless steel.
 Pin stainless steel 1.4542.
 Balls 1.4125 stainless steel.
 Spring 1.4310 stainless steel.

Version:

Grip black.
 Stainless steel bright.

Sample order:

K0793.214606050
 (include length L e.g. 050 for L = 50 mm.)

Note:

Ball lock pins are used for quick and easy fastening and joining of components. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

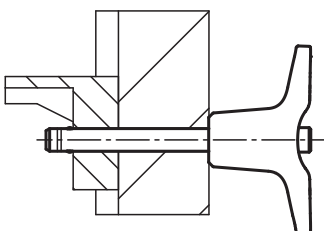
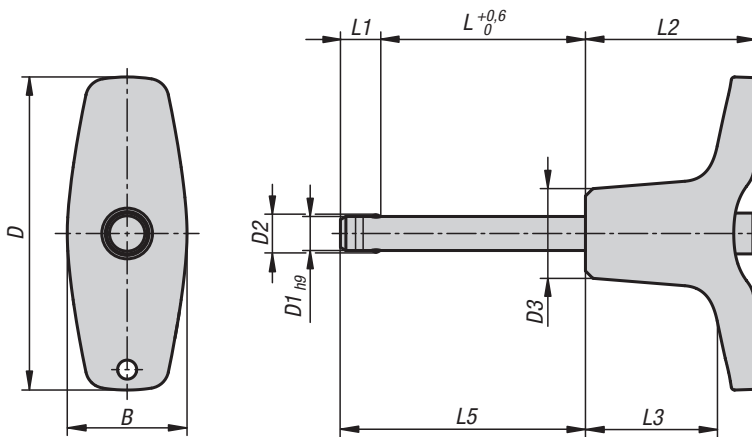
Ball lock pins with higher shear resistance have an identification groove on the pin.

Advantages:

Higher loading in comparison to standard ball lock pins.
 The pins made from 1.4542 stainless steel is hardened, has a higher shear resistance and is extremely durable.

Accessories:

Bushes for ball lock pins K0724
 Safety spiral cable K0367
 Retaining cable with loop K0367
 Key ring K0367

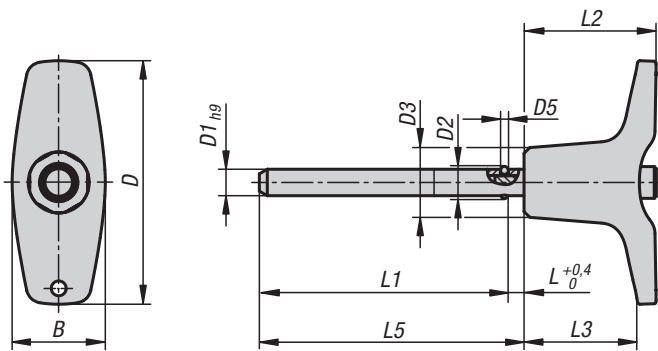


KIPP Ball lock pins with T-grip with high shear strength

Order No.	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0793.214605***	17,6	46	5	5,5	13,2	10/15/20/25/30	5,9	25	19,4	15,9/20,9/25,9/30,9/35,9	5	24
K0793.214606***	17,6	46	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	19,4	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	35
K0793.216308***	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	63
K0793.216310***	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	100
K0793.218212***	33	81,8	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	28,8	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	144
K0793.218216***	33	81,8	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	28,8	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	257

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:

K1415.204605050
 (include length L e.g. 050 for L = 50 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of components.
 The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

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 K1416.
 Safety spiral cable K0367
 Retaining cable with eyelet K0367
 Key ring K0367

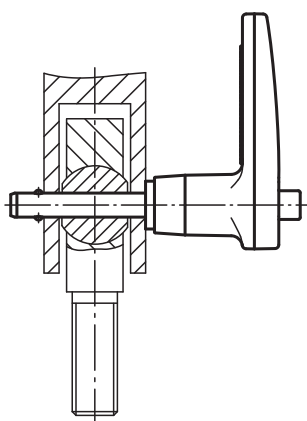
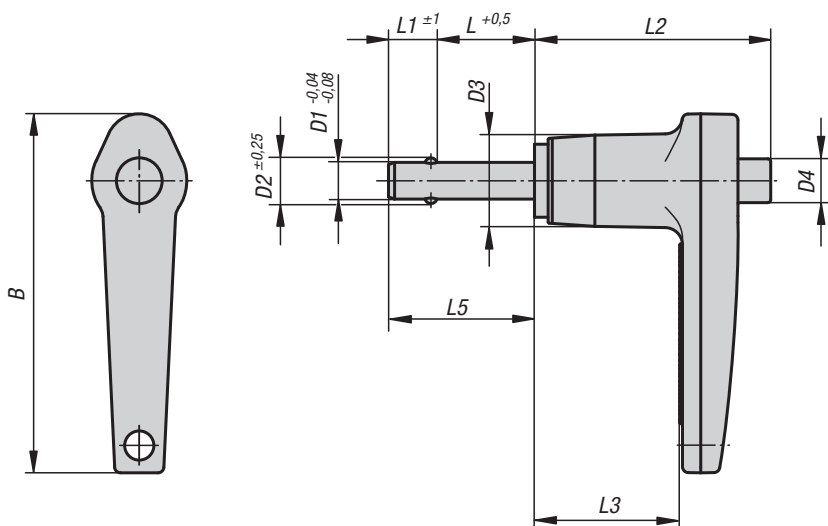


KIPP Ball lock pins with T-grip stainless steel, with head-end lock

Order No.	B	D	D1	D2	D3	D5	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K1415.2046***	17,6	46	5	5,5	13,2	1,5	3	47/97/147	25	19,4	50/100/150	5	10
K1415.2046***	17,6	46	6	6,85	13,2	2	3	47/97/147	25	19,4	50/100/150	6	14
K1415.2063***	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
K1415.2063***	23	62,9	10	12	17,3	4	3,5	96,5/146,5/196,5	33	24,4	100/150/200	10	40
K1415.2082***	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
K1415.2082***	33	81,8	16	19	26,3	6,5	4	146/196/246	39,5	28,8	150/200/250	16	100

Ball lock pins

with L-grip, self-locking



Material:

Pin 1.4542 stainless steel.
Grip die-cast aluminium EN-AC 46000.
Push button aluminium EN-AW 2024 T4.
Balls 1.4125 stainless steel.
Spring stainless steel wire.

Version:

All stainless steel parts passivated.
Pin hardened to min. 40 HRC.
Grip black anodised.
Push button blue anodised.
Balls hardened to 58 +4 HRC.

Sample order:

K0642.14405030
(include length L e.g. 030 for L = 30 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. The ball lock pins can be provided with a retaining cable if required.

The hardened, high-tensile stainless steel pin permits extreme loads with low wear.

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

Accessories:

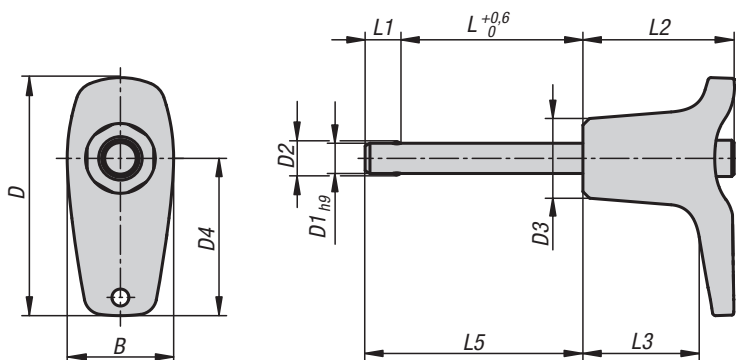
Safety spiral cable K0367.10200
Retaining cable with loop K0367.
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

KIPP Ball lock pins with L-grip, self-locking

Order No.	B	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K0642.14405***	46,7	5	5,54	11,9	5,8	10/15/20/25/30/35/40/50/60/70	6	30,7	19,3	16/21/26/31/36/41/46/56/66/76	5	24,4
K0642.14406***	46,7	6	6,99	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	7	30,7	19,3	17/22/27/32/37/42/47/57/67/77/87	6	35,64
K0642.14408***	46,7	8	9,42	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	8	30,7	19,3	18/23/28/33/38/43/48/58/68/78/88	8	63,8
K0642.15110***	54,1	10	11,86	14,2	7,4	15/20/25/30/35/40/50/60/70/80/90/100	9	34,8	22,1	24/29/34/39/44/49/59/69/79/89/99/109	10	100,1
K0642.15712***	60,2	12	14,45	18,3	10,7	20/25/30/35/40/50/60/70/80/90/100	10	40,6	25,4	30/35/40/45/50/60/70/80/90/100/110	12	144,06
K0642.16816***	68,3	16	19	23,9	13,7	25/30/35/40/50/60/70/80/90/100	14	45	28,2	39/44/49/54/64/74/84/94/104/114	16	257,18

Ball lock pins

with L-grip, self-locking



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 or traffic red RAL 3020.
 Stainless steel bright.

Sample order:

K0792.102606050
 (include length L e.g. 050 for L = 50 mm.)

Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

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

Accessories:

Bushes for ball lock pins K0724
 Safety spiral cable K0367
 Retaining cable with loop K0367
 Key ring K0367

KIPP Ball lock pins with L-grip, self-locking

Order No. black	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.102605***	17,6	39,3	5	5,5	13,2	26	10/15/20/25/30	5,9	25	19,2	15,9/20,9/25,9/30,9/35,9	5	15
K0792.102606***	17,6	39,3	6	6,85	13,2	26	10/15/20/25/30/35/40/45/50	6,8	25	19,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	22
K0792.103508***	23	52,2	8	9,5	17,3	35,4	20/25/30/35/40/45/50	7,8	33	24,2	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	38
K0792.103510***	23	52,2	10	12	17,3	35,4	20/25/30/35/40/45/50/60	8,9	33	24,2	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	60
K0792.104712***	33	70,2	12	14,5	26,3	47	25/30/35/40/45/50/60/70/80	9,9	39,5	28,4	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	86
K0792.104716***	33	70,2	16	19	26,3	47	30/35/40/45/50/60/70/80	13,1	39,5	28,4	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	153

Order No. red	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.10842605***	17,6	39,3	5	5,5	13,2	26	10/15/20/25/30	5,9	25	19,2	15,9/20,9/25,9/30,9/35,9	5	15
K0792.10842606***	17,6	39,3	6	6,85	13,2	26	10/15/20/25/30/35/40/45/50	6,8	25	19,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	22
K0792.10843508***	23	52,2	8	9,5	17,3	35,4	20/25/30/35/40/45/50	7,8	33	24,2	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	38
K0792.10843510***	23	52,2	10	12	17,3	35,4	20/25/30/35/40/45/50/60	8,9	33	24,2	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	60
K0792.10844712***	33	70,2	12	14,5	26,3	47	25/30/35/40/45/50/60/70/80	9,9	39,5	28,4	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	86
K0792.10844716***	33	70,2	16	19	26,3	47	30/35/40/45/50/60/70/80	13,1	39,5	28,4	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	153



Ball lock pins with L-grip

with high shear strength



Material:

Grip thermoplastic.
 Push button 1.4305 stainless steel.
 Pin 1.4542 stainless steel.
 Balls 1.4125 stainless steel.
 Spring 1.4310 stainless steel wire.

Version:

Grip black or traffic red RAL 3020.
 Stainless steel bright.

Sample order:

K0792.112606050
 (include length L e.g. 050 for L = 50 mm.)

Note:

Ball lock pins are used for quick and easy fastening and joining of components.
 The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces.
 Release the button to lock the balls and secure the connection.

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

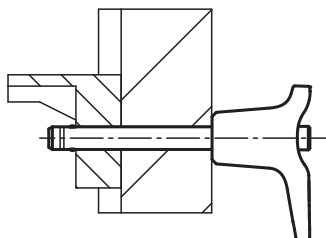
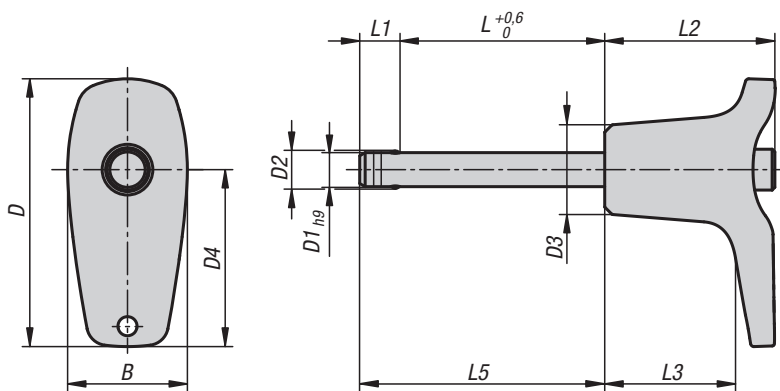
Ball lock pins with higher shear resistance have an identification groove on the pin.

Advantages:

Higher loading in comparison to standard ball lock pins.
 The pins made from 1.4542 stainless steel is hardened, has a higher shear resistance and is extremely durable.

Accessories:

Bushes for ball lock pins K0724
 Safety spiral cable K0367
 Retaining cable with loop K0367
 Key ring K0367



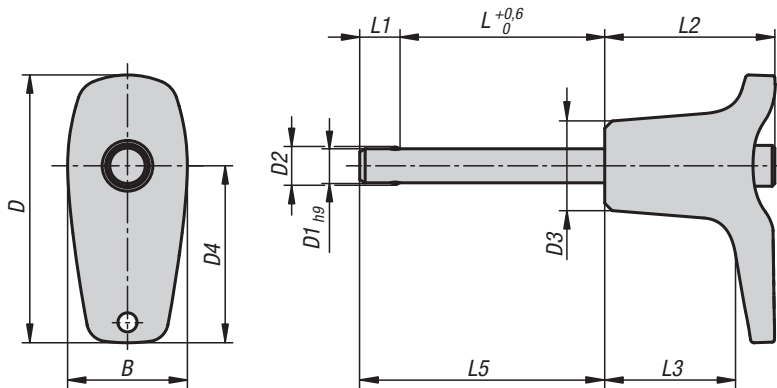
KIPP Ball lock pins with L-grip with high shear strength

Order No. black	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.112605***	17,6	39,3	5	5,5	13,2	26	10/15/20/25/30	5,9	25	19,2	15,9/20,9/25,9/30,9/35,9	5	24
K0792.112606***	17,6	39,3	6	6,85	13,2	26	10/15/20/25/30/35/40/45/50	6,8	25	19,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	35
K0792.113508***	23	52,2	8	9,5	17,3	35,4	20/25/30/35/40/45/50	7,8	33	24,2	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	63
K0792.113510***	23	52,2	10	12	17,3	35,4	20/25/30/35/40/45/50/60	8,9	33	24,2	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	100
K0792.114712***	33	70,2	12	14,5	26,3	47	25/30/35/40/45/50/60/70/80	9,9	39,5	28,4	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	144
K0792.114716***	33	70,2	16	19	26,3	47	30/35/40/45/50/60/70/80	13,1	39,5	28,4	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	257

Order No. red	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0792.11842605***	17,6	39,3	5	5,5	13,2	26	10/15/20/25/30	5,9	25	19,2	15,9/20,9/25,9/30,9/35,9	5	24
K0792.11842606***	17,6	39,3	6	6,85	13,2	26	10/15/20/25/30/35/40/45/50	6,8	25	19,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	35
K0792.11843508***	23	52,2	8	9,5	17,3	35,4	20/25/30/35/40/45/50	7,8	33	24,2	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	63
K0792.11843510***	23	52,2	10	12	17,3	35,4	20/25/30/35/40/45/50/60	8,9	33	24,2	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	100
K0792.11844712***	33	70,2	12	14,5	26,3	47	25/30/35/40/45/50/60/70/80	9,9	39,5	28,4	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	144
K0792.11844716***	33	70,2	16	19	26,3	47	30/35/40/45/50/60/70/80	13,1	39,5	28,4	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	257

Ball lock pins

with L-grip, self-locking



Material:

Grip die-cast zinc.
Steel parts 1.4305 stainless steel.

Version:

Grip black.
Stainless steel bright.

Sample order:

K0793.102606050
(include length L e.g. 050 for L = 50 mm.)

Note:

Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

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

Accessories:

- Bushes for ball lock pins K0724
- Safety spiral cable K0367
- Retaining cable with loop K0367
- Key ring K0367



KIPP Ball lock pins with L-grip, self-locking

Order No.	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K0793.102605***	17,6	39,3	5	5,5	13,2	26	10/15/20/25/30	5,9	25	19,2	15,9/20,9/25,9/30,9/35,9	5	15
K0793.102606***	17,6	39,3	6	6,85	13,2	26	10/15/20/25/30/35/40/45/50	6,8	25	19,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	22
K0793.103508***	23	52,2	8	9,5	17,3	35,4	20/25/30/35/40/45/50	7,8	33	24,2	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	38
K0793.103510***	23	52,2	10	12	17,3	35,4	20/25/30/35/40/45/50/60	8,9	33	24,2	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	60
K0793.104712***	33	70,2	12	14,5	26,3	47	25/30/35/40/45/50/60/70/80	9,9	39,5	28,4	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	86
K0793.104716***	33	70,2	16	19	26,3	47	30/35/40/45/50/60/70/80	13,1	39,5	28,4	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	153

Ball lock pins with L-grip

with high shear strength



Material:

Grip die-cast zinc.
 Push button 1.4305 stainless steel.
 Pin stainless steel 1.4542.
 Balls 1.4125 stainless steel.
 Spring 1.4310 stainless steel.

Version:

Grip black.
 Stainless steel bright.

Sample order:

K0793.112606050
 (include length L e.g. 050 for L = 50 mm.)

Note:

Ball lock pins are used for quick and easy fastening and joining of components. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

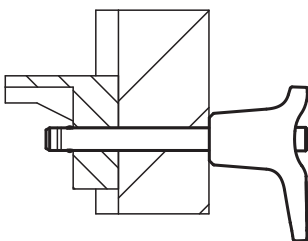
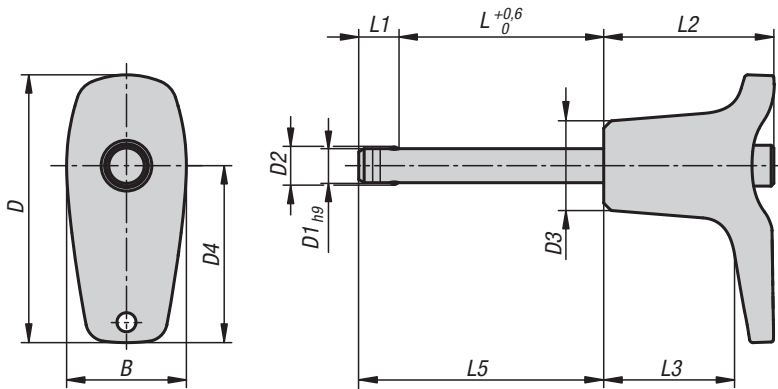
Ball lock pins with higher shear resistance have an identification groove on the pin.

Advantages:

Higher loading in comparison to standard ball lock pins.
 The pins made from 1.4542 stainless steel is hardened, has a higher shear resistance and is extremely durable.

Accessories:

Bushes for ball lock pins K0724
 Safety spiral cable K0367
 Retaining cable with loop K0367
 Key ring K0367



KIPP Ball lock pins with L-grip with high shear strength

Order No.	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K0793.112605***	17,6	39,3	5	5,5	13,2	26	10/15/20/25/30	5,9	25	19,2	15,9/20,9/25,9/30,9/35,9	5	24
K0793.112606***	17,6	39,3	6	6,85	13,2	26	10/15/20/25/30/35/40/45/50	6,8	25	19,2	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	6	35
K0793.113508***	23	52,2	8	9,5	17,3	35,4	20/25/30/35/40/45/50	7,8	33	24,2	27,8/32,8/37,8/42,8/47,8/52,8/57,8	8	63
K0793.113510***	23	52,2	10	12	17,3	35,4	20/25/30/35/40/45/50/60	8,9	33	24,2	28,9/33,9/38,9/43,9/48,9/53,9/58,9/68,9	10	100
K0793.114712***	33	70,2	12	14,5	26,3	47	25/30/35/40/45/50/60/70/80	9,9	39,5	28,4	34,9/39,9/44,9/49,9/54,9/59,9/69,9/79,9/89,9	12	144
K0793.114716***	33	70,2	16	19	26,3	47	30/35/40/45/50/60/70/80	13,1	39,5	28,4	43,1/48,1/53,1/58,1/63,1/73,1/83,1/93,1	16	257

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:

K1415.102605050
 (include length L e.g. 050 for L = 50 mm)

Note:

Ball lock pins are used for quick and easy fastening and joining of components. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

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

Advantages:

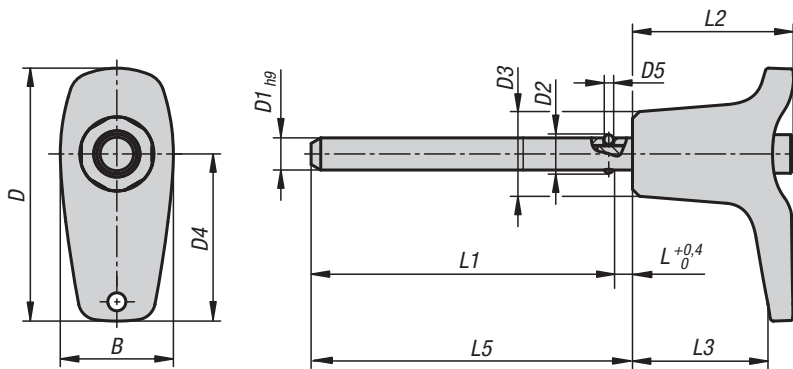
Wide connections possible.
 The pin length does not need to be coordinated with the component width.

On request:

Other pin lengths.

Accessories:

Adapter bushes for ball lock pins with head lock K1416.
 Safety spiral cable K0367
 Retaining cable with eyelet K0367
 Key ring K0367



KIPP Ball lock pins stainless steel with L-grip, with head-end lock

Order No.	B	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L5	Receiver hole H11	Shearing force double shear max.kN
K1415.1026***	17,6	39,3	5	5,5	13,2	26	1,5	3	47/97/147	25	19,2	50/100/150	5	10
K1415.1026***	17,6	39,3	6	6,85	13,2	26	2	3	47/97/147	25	19,2	50/100/150	6	14
K1415.1035***	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
K1415.1035***	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
K1415.1047***	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
K1415.1047***	33	70,2	16	19	26,3	47	6,5	4	146/196/246	39,5	28,4	150/200/250	16	100

Technical information for ball lock pins K1063, K1064 and locating bushes K1065



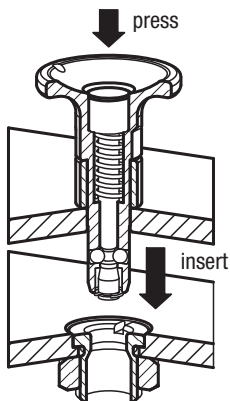
Note:

These are designed to quickly clamp 2 plates.

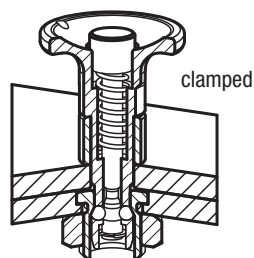
The system can be used for changing mechanisms in assembly applications or for making other manual adjustments, such as conversions in automatic systems.

Repeat accuracy of ± 0.25 for screwed-in and pushed-in version.

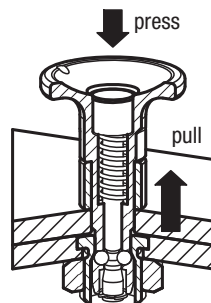
The repeat accuracy can be increased with the aid of additional locating pins.



With the knob pressed down, insert the ball lock pin into the locating bush.



Release the knob to clamp the plates.

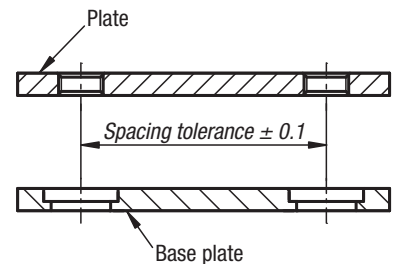


To remove, press the knob down and pull the ball lock pin out of the bush.

Assembly:

The mounting situation is customer specific. Plates of different thicknesses can be joined. The different mounting options form A to D are described on the product pages.

Recommended tolerances when using 2 items

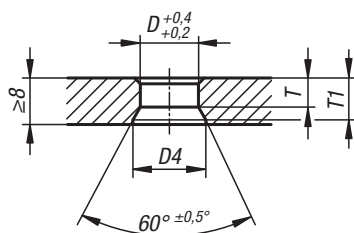


Application without locating bush

Installation dimensions

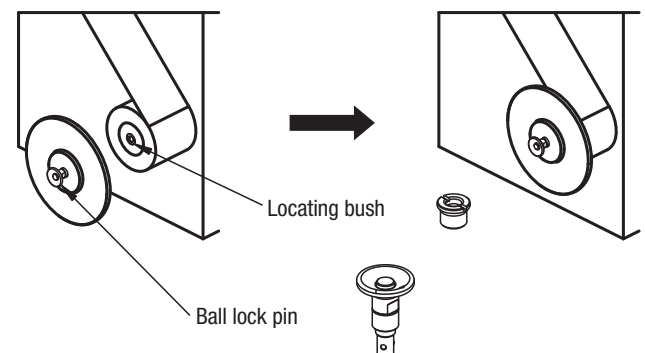
Attention:

The specified pullout forces only apply in conjunction with locating bush K1065.



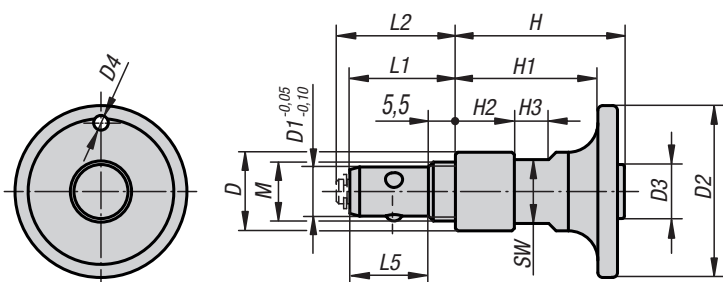
Application example:

Quick installation and removal of flange plates for paper rolls.



For ball lock pin D =	D	D4 min.	T	T1
6	6	8	4,9	~6,6
10	10	12,5	5	~7,2

Ball lock pins



Material:

Housing and push button steel.
Ball, spring and snap ring stainless steel.
O-ring FKM.

Version:

Housing nickel-plated.
Knob tempered and nickel-plated.
Ball tempered.

Sample order:

K1063.621

Note:

Installation dimensions for Form A for plate thickness 6 mm.
Installation dimensions for Form B for plate thickness 6 to 16 mm.

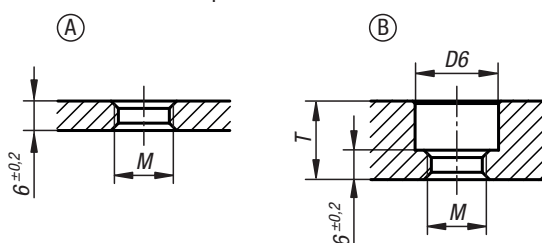
Attention:

The specified pullout forces only apply in conjunction with locating bush K1065.

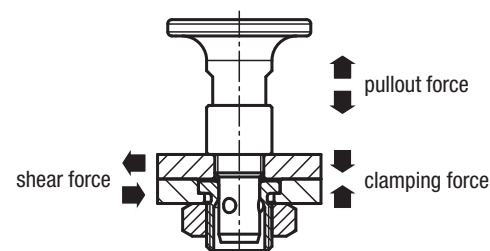
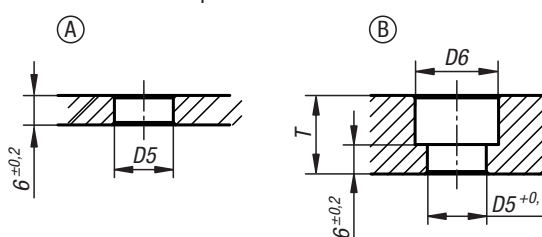
Accessories:

Locating bush K1065.

Screw-in ball lock pin



Push-in ball lock pin



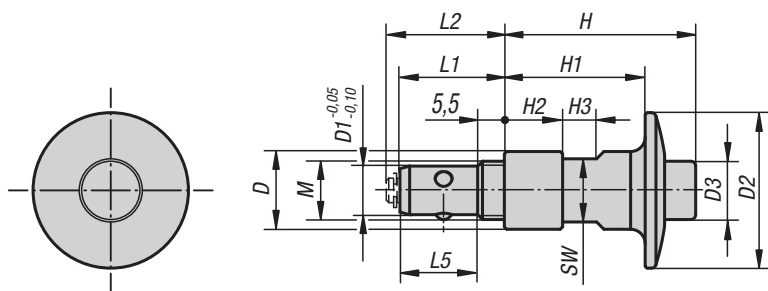
KIPP Ball lock pin

Order No.	D	D1	D2	D3	D4	M	L1	L2	L5	H	H1	H2	H3	SW	D5	D6	T max.
K1063.621	12	6	25	8	-	M8	19	21	13,5	22,2	18	6	5,5	10	8	13	10
K1063.1024	16	10	35	11	3	M12x1,5	21,5	23,5	16	34,4	29	12	7	13	12	17	16

KIPP Ball lock pin, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temperature resistance
K1063.621	30	3	0,5	≤180 °C
K1063.1024	50	9	1,5	≤180 °C

Ball lock pins stainless steel



Material:

Housing and push button stainless steel.
Ball, spring and snap ring stainless steel.
O-ring FKM.

Version:

Housing bright.
Push button bright.
Ball tempered.

Sample order:

K1063.6211

Note:

Installation dimensions for Form A for plate thickness 6 mm.
Installation dimensions for Form B for plate thickness 6 to 16 mm.

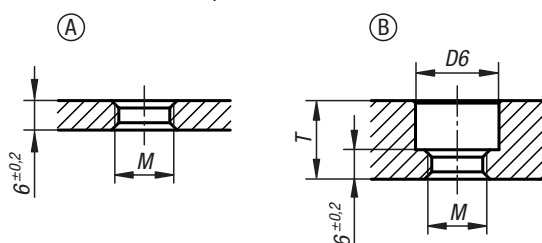
Attention:

The specified pullout forces only apply in conjunction with locating bush K1065.

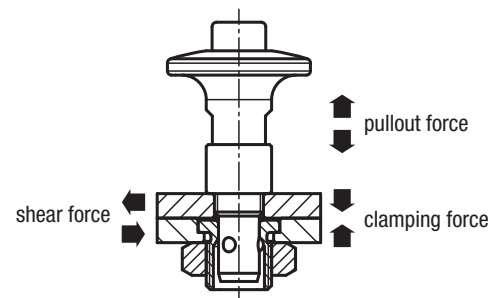
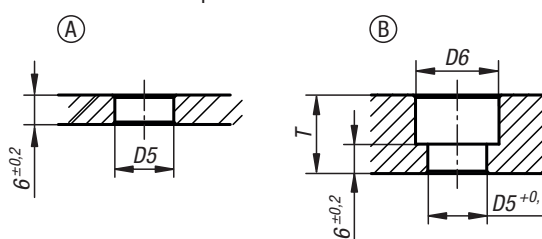
Accessories:

Locating bush K1065.

Screw-in ball lock pin



Push-in ball lock pin



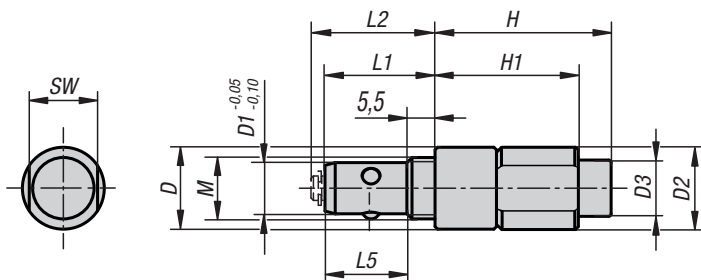
KIPP Ball lock pin stainless steel

Order No.	D	D1	D2	D3	M	L1	L2	L5	H	H1	H2	H3	SW	D5	D6	T max.
K1063.6211	12	6	23	8	M8	19	21	13,5	25,8	18	6	5,5	10	8	13	10
K1063.10241	16	10	32	12	M12x1,5	21,5	23,5	16	39,4	29	12	7	13	12	17	16

KIPP Ball lock pin stainless steel, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temperature resistance
K1063.6211	30	3	0,5	≤180 °C
K1063.10241	50	9	1,5	≤180 °C

Ball lock pins without head



Material:

Housing and push button steel or stainless steel.
Ball, spring and snap ring stainless steel.
O-ring FKM.

Version:

Housing nickel-plated or bright.
Knob tempered and nickel-plated.
Ball tempered.

Sample order:

K1063.10242

Note:

Installation dimensions for Form A for plate thickness 6 mm.

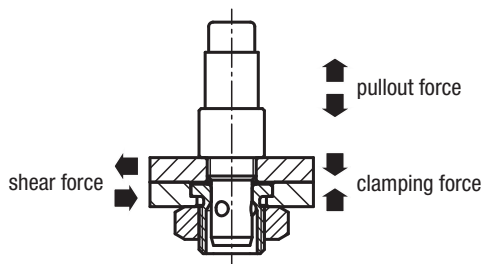
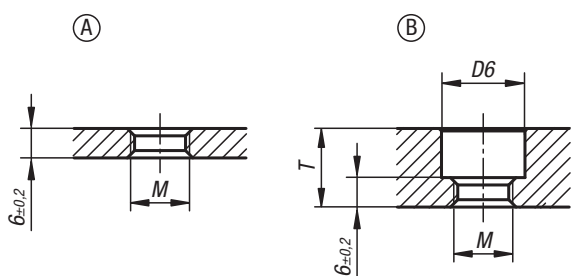
Installation dimensions for Form B for plate thickness 6 to 16 mm.

Attention:

The specified pullout forces only apply in conjunction with locating bush K1065.

Accessories:

Locating bush K1065.



KIPP Ball lock pin without head

Order No.	Main material	D	D1	D2	D3	M	L2	L1	L5	H	H1	SW	D6	T max.
K1063.6212	steel	12	6	12	8	M8x1,25	21	19	13,5	22	17,5	10	13	10
K1063.10242	steel	16	10	16	11	M12x1,5	23,5	21,5	16	34,4	28	13	17	16
K1063.16212	stainless steel	12	6	12	8	M8x1,25	21	19	13,5	22	17,5	10	13	10
K1063.110242	stainless steel	16	10	16	11	M12x1,5	23,5	21,5	16	34,4	28	13	17	16

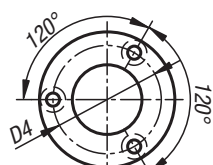
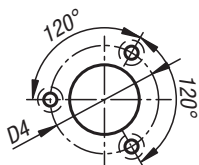
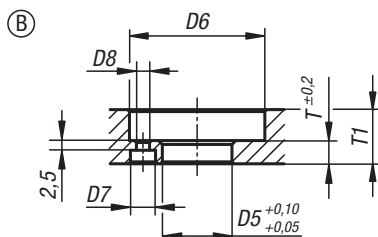
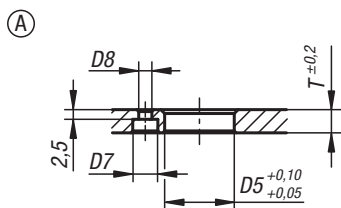
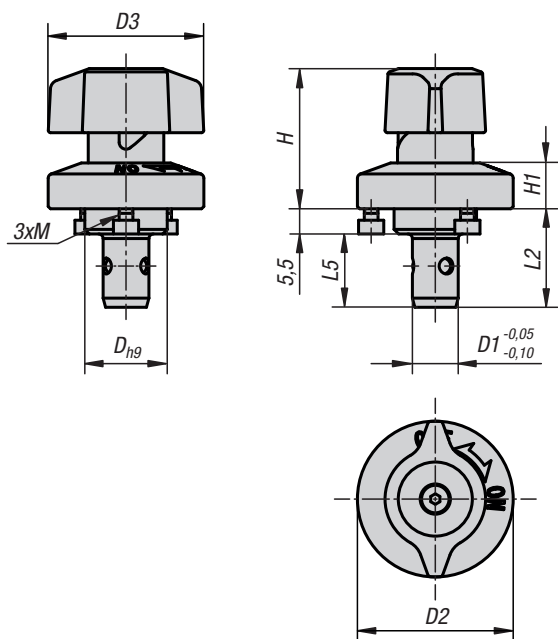
KIPP Ball lock pin without head, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temperature resistance
K1063.6212	30	3	0,5	≤180 °C
K1063.10242	50	9	1,5	≤180 °C
K1063.16212	30	3	0,5	≤180 °C
K1063.110242	50	9	1,5	≤180 °C



Ball lock pins

with twist knob



Material:

Housing and pin steel or stainless steel.
Knob PA thermoplastic (polyamide) or stainless steel.
Ball and spring stainless steel.

Version:

Housing nickel-plated or bright.
Pin tempered and nickel-plated.
Knob reinforced black fibreglass or bright.
Ball tempered.

Sample order:

K1064.620

Note:

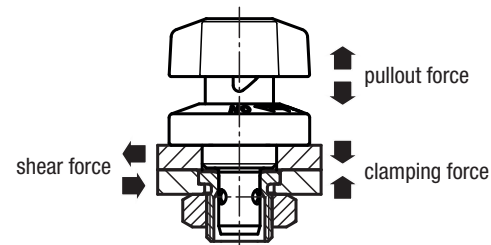
Installation dimensions for Form A for plate thickness 6 or 12 mm.
Installation dimensions for Form B for plate thickness up to 20 mm.
Includes M2 or M3 mounting screws.

Attention:

The specified pullout forces only apply in conjunction with locating bush K1065.

Accessories:

Locating bush K1065.



KIPP Ball lock pin with twist knob

Order No.	Main material	D	D1	D2	D3	D4	H	H1	L2	L5	M	D5	D6	D7	D8	T	T1
K1064.620	steel	14	6	25	25	21	24,5	6,5	19,5	14	M2x3	14	26	4,4	2,4	6	6-10
K1064.1022	steel	18	10	34	34	28	31	10	21,5	16	M3x4	18	35	6,5	3,4	6	6-14
K1064.1028	steel	18	10	34	34	28	31	10	27,5	22	M3x4	18	35	6,5	3,4	12	12-20
K1064.1620	stainless steel	14	6	25	25	21	24,5	6,5	19,5	14	M2x3	14	26	4,4	2,4	6	6-10
K1064.11022	stainless steel	18	10	34	34	28	31	10	21,5	16	M3x4	18	35	6,5	3,4	6	6-14
K1064.11028	stainless steel	18	10	34	34	28	31	10	27,5	22	M3x4	18	35	6,5	3,4	12	12-20

KIPP Ball lock pins with twist knob, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force F kN	Temperature resistance
K1064.620	30	3	0,5	≤130 °C
K1064.1022	50	9	1,5	≤130 °C
K1064.1028	50	9	1,5	≤130 °C
K1064.1620	30	3	0,5	≤130 °C
K1064.11022	50	9	1,5	≤130 °C
K1064.11028	50	9	1,5	≤130 °C

Locating bushes

for ball lock pin



Material:

Steel or stainless steel.

Version:

Steel nickel-plated.
Stainless steel bright.

Sample order:

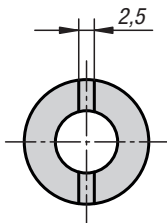
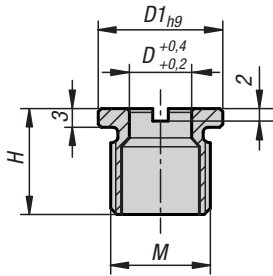
K1065.61

Note:

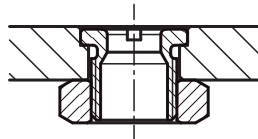
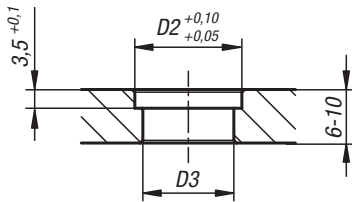
Mounting dimensions for Form A:
Mounting with nut, max. plate thickness 10 mm.
Mounting dimensions for Form B:
Screwed in, for plate thicknesses over 10 mm or in a blind hole.

On request:

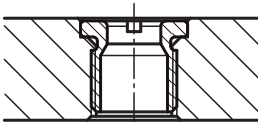
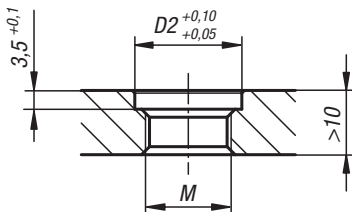
Suitable nuts (K0070) and assembly tool (K0317).



(A)



(B)



KIPP Locating bushes for ball lock pin

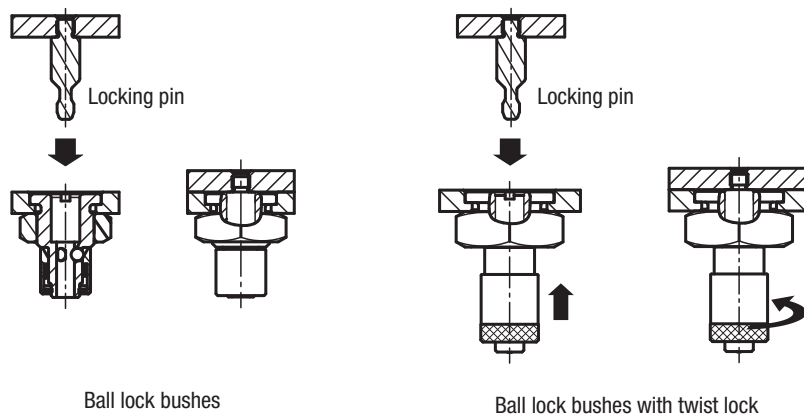
Order No.	Material	D	D1	M	H	D2	D3
K1065.6	steel	6	16	M12x1,5	15	16	13
K1065.10	steel	10	20	M16x1,5	17	20	17
K1065.61	stainless steel	6	16	M12x1,5	15	16	13
K1065.101	stainless steel	10	20	M16x1,5	17	20	17

Technical information for ball lock bushes K1066 and K1067

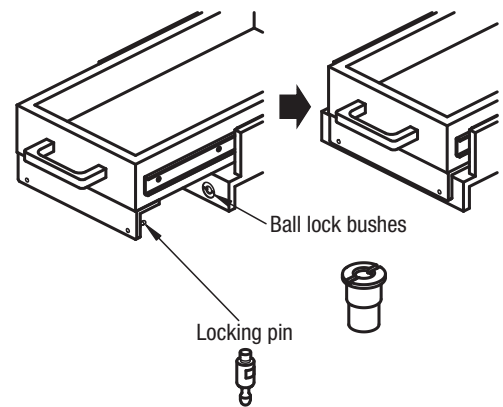


Note:
 These are used to hold panels or thin plates. The locking pin locks mechanically in the bush with 3 balls. The ball lock bush with rotary lock only releases the locking pin when the bush is manually rotated.
 The repeat accuracy of ± 0.25 mm can be increased with the aid of additional locating pins.

Application:
 Ball lock bushes and ball lock bushes with rotary lock.



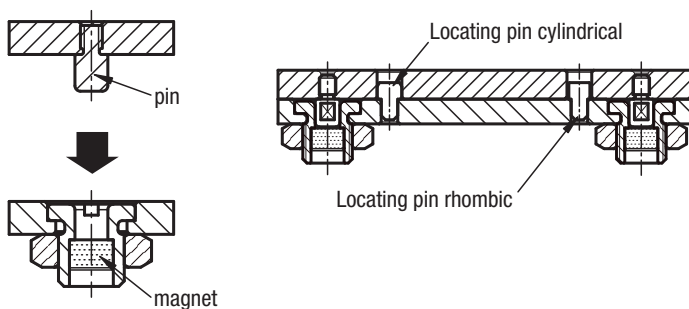
Application example:
 End fixating of a sliding unit.



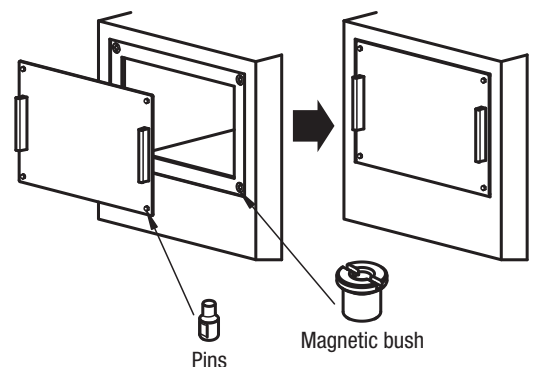
Technical information for magnetic bushes K1068 and K1069

Note:
 These are used to hold panels or thin plates. The pin is held in the bush housing by a magnet.
 The repeat accuracy of ± 0.25 mm can be increased with the aid of additional locating pins.

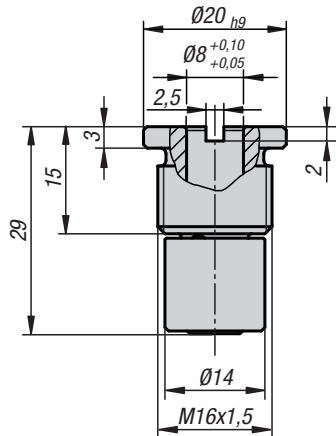
Application:



Application example:
 Quick installation or removal of hatches



Ball lock bushes



Material:
Housing steel.
Balls and springs stainless steel.

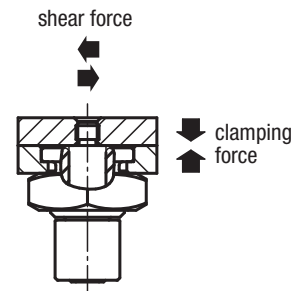
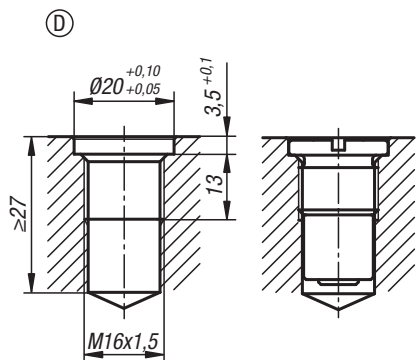
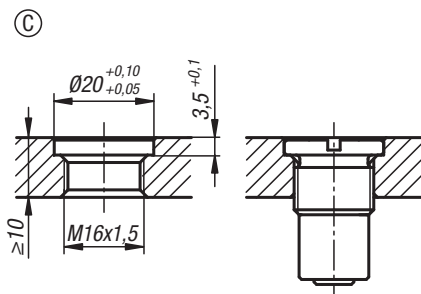
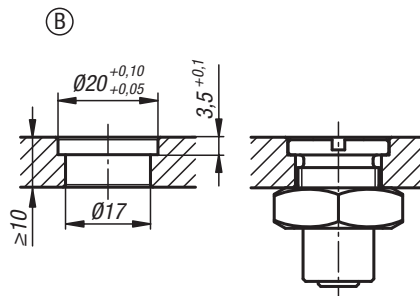
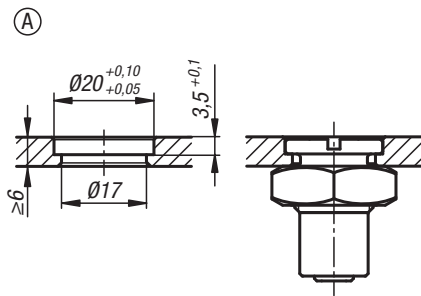
Version:
Housing nickel-plated.
Balls tempered.

Sample order:
K1066.7

Note:
The 3 balls inside the bush hold the locking pin with the specified retaining force.
Installation dimensions for Form A: min. plate thickness 6 mm.
Installation dimensions for Form B: max. plate thickness 10 mm.
Installation dimensions for Form C: plate thickness > 10 mm.
Installation dimensions for Form D: blind hole.

On request:
Suitable nuts.

Accessories:
Locking pin K1067.



KIPP Ball lock bushes

Order No.	Clamping force N	Shearing force kN	Temperature resistance
K1066.7	7	1,8	≤180 °C
K1066.15	15	1,8	≤180 °C

Ball lock bushes

with twist lock



Material:

Housing and locking elements steel.
Balls and springs stainless steel.

Version:

Housing and locking element nickel-plated.
Balls tempered.

Sample order:

K1066.71

Note:

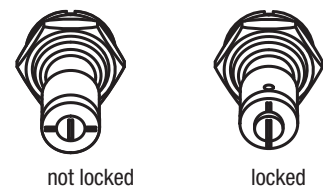
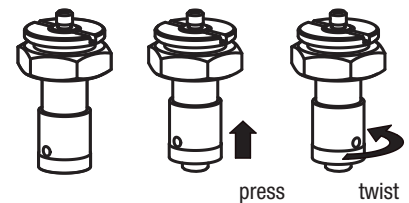
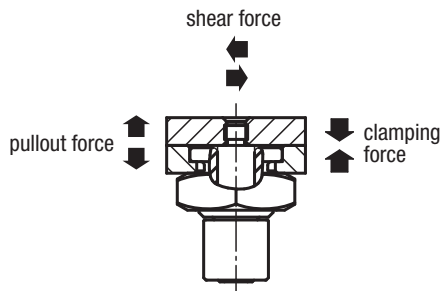
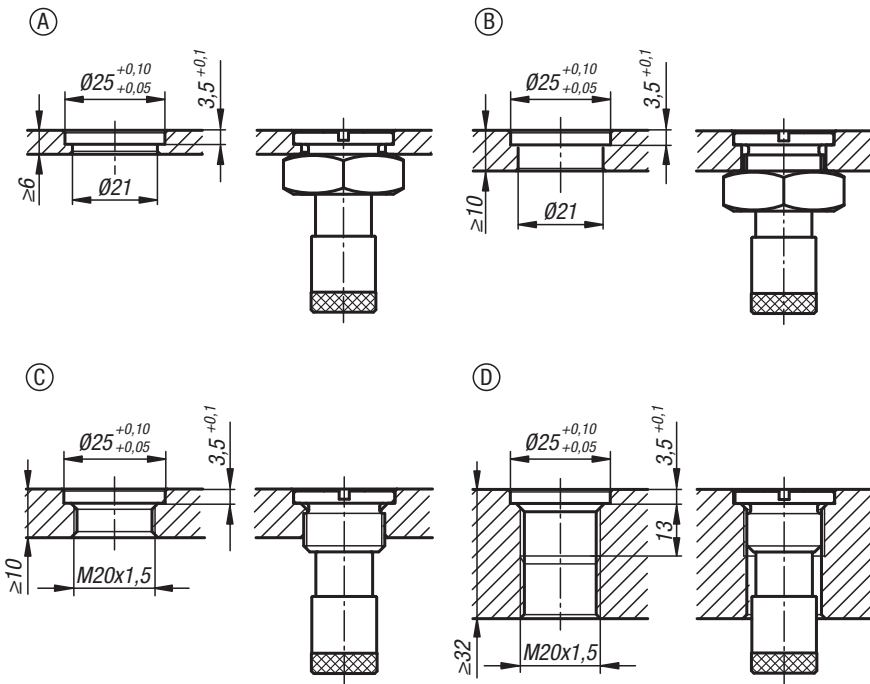
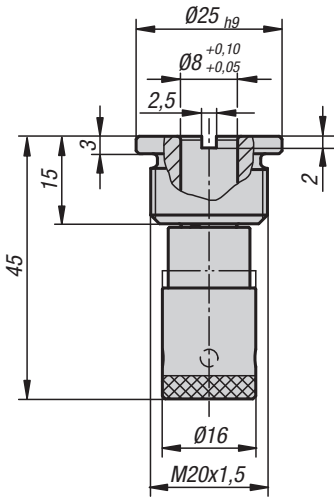
The 3 balls inside the bush hold the locking pin with the specified retaining force.
The element is secured or released by twisting the bottom part of the bush.
Installation dimensions for Form A: min. plate thickness 6 mm.
Installation dimensions for Form B: max. plate thickness 10 mm.
Installation dimensions for Form C: plate thickness > 10 mm.
Installation dimensions for Form D: blind hole.

On request:

Suitable nuts.

Accessories:

Locking pin K1067.



KIPP Ball lock bushes with twist lock

Order No.	Clamping force N	Shearing force kN	Pullout force F kN	Temperature resistance
K1066.71	7	1,8	1,8	≤180 °C
K1066.151	15	1,8	1,8	≤180 °C

Locking pin

for ball lock bushes

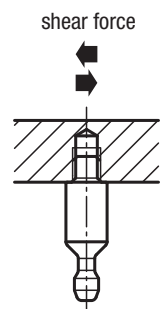
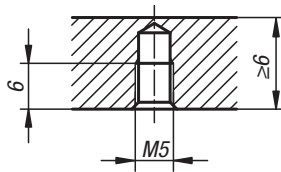
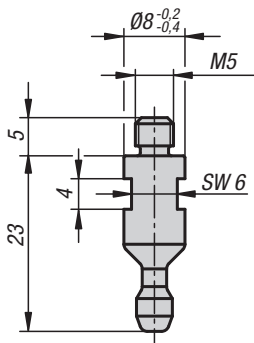


Material:
Steel.

Version:
Bright.

Sample order:
K1067.8

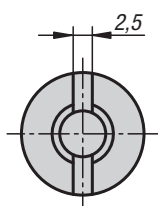
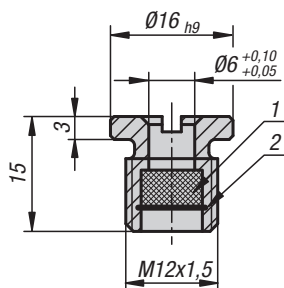
Note:
Repeat accuracy ± 0.25 .
The repeat accuracy can be increased with the aid of locating pins.



KIPP Locking pin for ball lock bushes

Order No.	Shearing force kN	Temperature resistance
K1067.8	1,8	≤ 180 °C

Magnetic bush

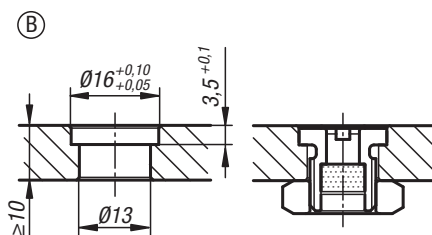
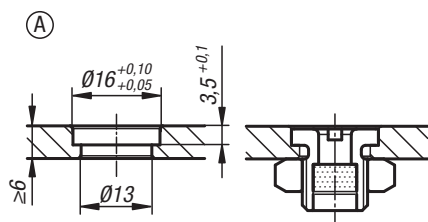


Material:
Housing stainless steel.
Magnet neodymium.

Version:
Housing bright.

Sample order:
K1068.6

Note:
A magnet in the bush attracts the pin (K1069) and holds it with the specified retaining force. Repeat accuracy ± 0.25 . The repeat accuracy can be increased with the aid of additional locating pins.

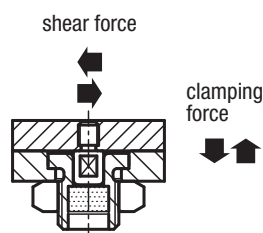
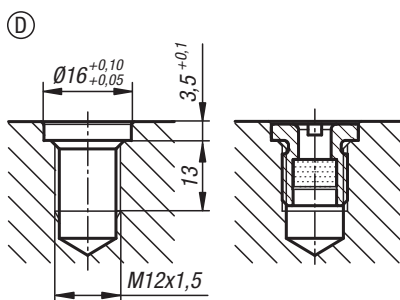
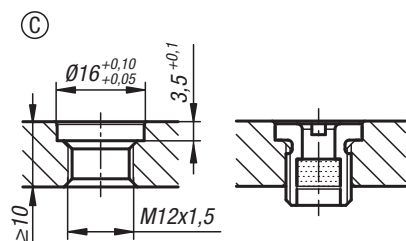


Installation dimensions for Form A:
min. plate thickness 6 mm.
Installation dimensions for Form B:
max. plate thickness 10 mm.
Installation dimensions for Form C:
plate thickness > 10 mm.
Installation dimensions for Form D:
blind hole.

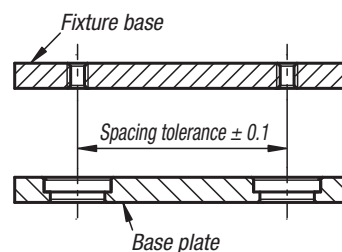
On request:
Suitable nuts.

Accessories:
Pin K1069

Drawing reference:
1) magnet
2) circlip



Recommended installation tolerances:



KIPP Magnetic bushes

Order No.	Clamping force N	Shearing force kN	Temperature resistance
K1068.6	7	0,8	≤ 80 °C

Pin

for magnetic bush

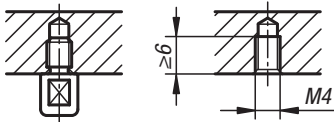
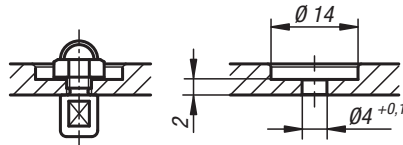
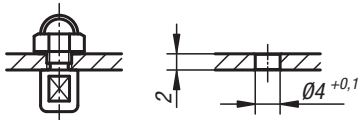
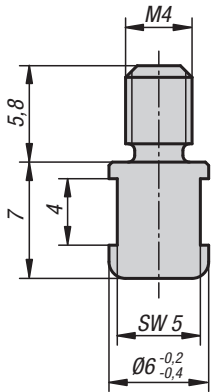


Material:
Steel.

Version:
Bright.

Sample order:
K1069.6

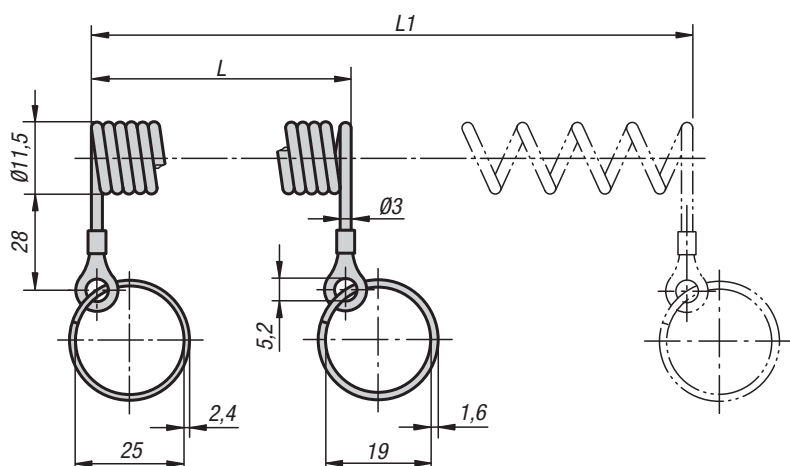
Note:
Accessory to K1068.
The pin is attracted to the magnetic bush K1068.
Mounting option with nut (not included) or by screwing directly into the workpiece.



KIPP Pin for magnetic bush

Order No.	Shear force kN
K1069.6	0,9

Safety spiral cables



Material:

Spiral cable PUR.
Eye copper or stainless steel.
Key ring steel or stainless steel.

Version:

Spiral cable black.
Eye, zinc-plated copper or bright stainless steel.
Key ring, chromed steel or bright stainless steel.

Sample order:

K0367.10200

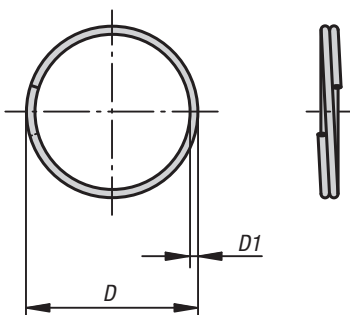
Note:

Elastic spiral cable to secure equipment parts. Very good reset force, robust and wear-resistant.

KIPP Safety spiral cable

Order No.	Key Rings	L	L1
K0367.10100	steel	100	500
K0367.10200	steel	200	1000
K0367.20100	stainless steel	100	500
K0367.20200	stainless steel	200	1000

Key rings



Material:

Stainless steel 1.4310.

Version:

Bright.

Sample order:

K0367.23

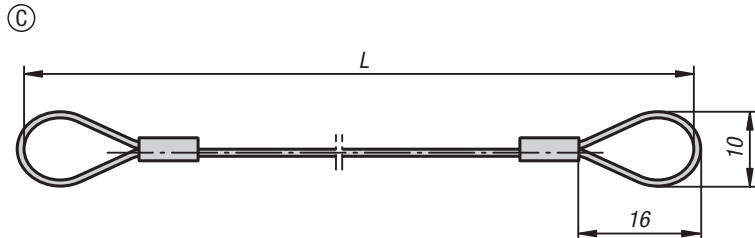
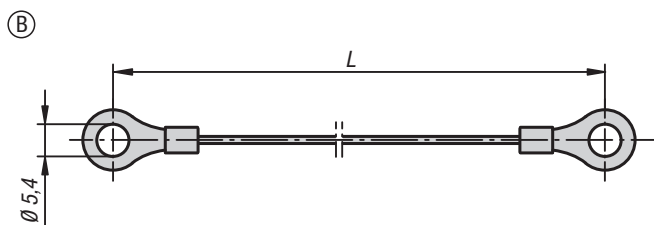
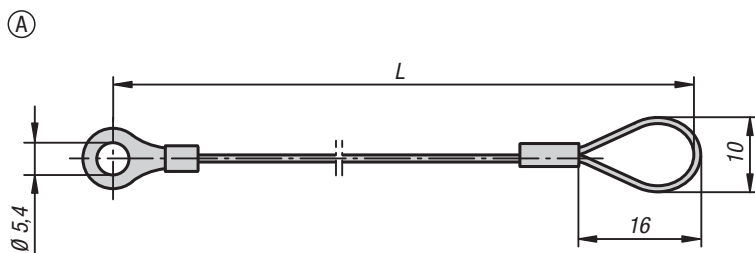
Note:

Suitable for retaining cable with loop K0367.
Ball lock pins K0363, K0364, K0641, K0366, K0642, K0790, K0791.
Locking pins K0365.
Indexing plungers K0342, K0635, K0636.

KIPP Key rings

Order No.	D	D1
K0367.15	15	1.0
K0367.19	19	1.0
K0367.23	23	1.2
K0367.28	28	1.7

Retaining cables

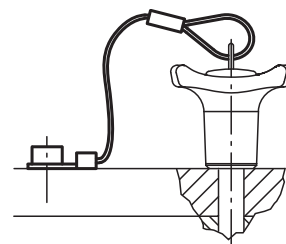


Material:
Cable stainless steel.
Crimp and end terminal aluminium.

Version:
Cable plastic coated.

Sample order:
K0367.0200

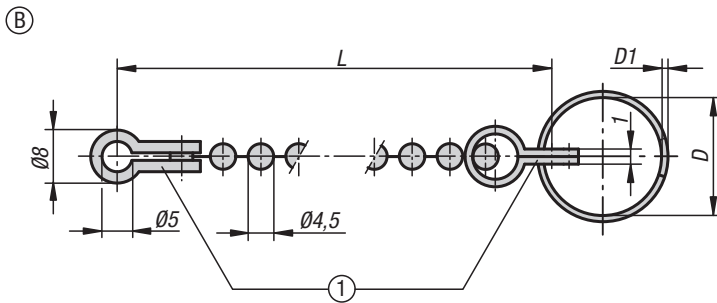
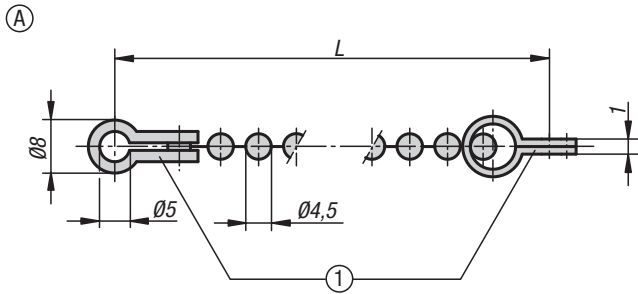
Note:
With the retaining cable and key ring (K0367) the ball lock pins (K0363, K0364, K0641, K0366, K0642, K0790, K0791) can be secured so that they cannot be lost. An M5 screw is used to secure the retaining cable. Application temperature: +80 °C.



KIPP Retaining cables

Order No.	Form	L
K0367.0150	A	150
K0367.0200	A	200
K0367.0300	A	300
K0367.0500	A	500
K0367.1150	B	150
K0367.1200	B	200
K0367.1300	B	300
K0367.1500	B	500
K0367.2150	C	150
K0367.2200	C	200
K0367.2300	C	300
K0367.2500	C	500

Ball chains



Material:

A: Chain stainless steel.

B: Chain stainless steel, key ring stainless steel.

Sample order:

K1125.115X160 (include length L)

Note:

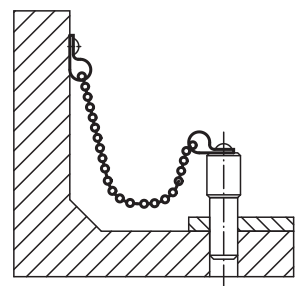
If no length is specified 1000 mm will be supplied.

Drawing reference:

1) same parts

Form A: ball chain, single

Form B: ball chain with key ring



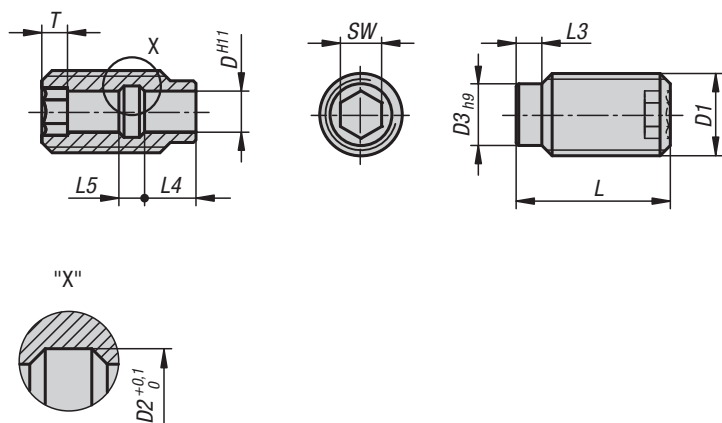
KIPP Form A, ball chain single

Order No.	Form	Version 1	Main material	L
K1125.01X	A	single	stainless steel	160/320/500/1000

KIPP Form B, ball chain with keyring

Order No.	Form	Version 1	Main material	L	D	D1
K1125.115X	B	with key ring	stainless steel	160/320/500/1000	15	1
K1125.119X	B	with key ring	stainless steel	160/320/500/1000	19	1
K1125.123X	B	with key ring	stainless steel	160/320/500/1000	23	1,2
K1125.128X	B	with key ring	stainless steel	160/320/500/1000	28	1,7

Bushing for ball lock pins



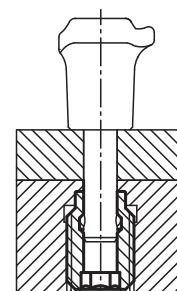
Material:
Stainless steel 1.4305.

Version:
Steel parts bright.

Sample order:
K0724.11224

Note:
These bushes are ideal for easy and quick positioning of ball lock pins and locking pins.

- Advantages:**
- centred by the centring collar.
 - easy and reliable installation.
 - can be screwed into various materials.
 - usable both sides

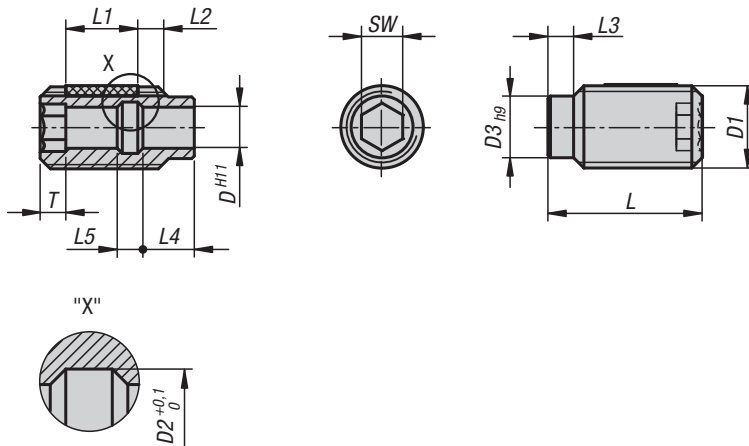


KIPP Bushing for ball lock pins

Order No.	D	D1	D2	D3	L	L3	L4	L5	SW	T
K0724.10512	5	M12	6	9	25	4	7	3	5	4
K0724.10616	6	M16	7,5	12	30	5	10	5	6	5
K0724.10816	8	M16	10	12	30	5	10	5	8	5
K0724.11024	10	M24	13	18	35	6	8	7	10	6
K0724.11224	12	M24	15	18	35	6	8	7	12	6
K0724.11630	16	M30	20	24	40	8	11	9	16	7

Bushing for ball lock pins

with LONG-LOK thread lock



Material:

Stainless steel 1.4305.

LONG-LOK thread lock Nylon.

Version:

Steel parts bright.

Sample order:

K0724.112241

Note:

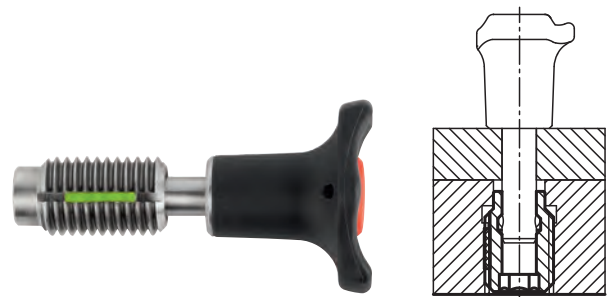
These bushes are ideal for easy and quick positioning of ball lock pins and locking pins.

Advantages:

- centred by the centring collar.
- easy and reliable installation.
- can be screwed into various materials.
- usable both sides
- the LONG-LOK thread lock enables the depth to be exactly matched to existing components, no locknut is required.

Drawing reference:

L2 = approx. 2x thread pitch



KIPP Bushing for ball locking pins, with LONG-LOK thread lock

Order No.	D	D1	D2	D3	L	L1	L3	L4	L5	SW	T
K0724.105121	5	M12	6	9	25	10	4	7	3	5	4
K0724.106161	6	M16	7,5	12	30	14	5	10	5	6	5
K0724.108161	8	M16	10	12	30	14	5	10	5	8	5
K0724.110241	10	M24	13	18	35	14	6	8	7	10	6
K0724.112241	12	M24	15	18	35	14	6	8	7	12	6
K0724.116301	16	M30	20	24	40	14	8	11	9	16	7

Locating bushes with collar, stainless steel

for ball lock pins



Material:

Stainless steel 1.4305.

Version:

Bright.

Sample order:

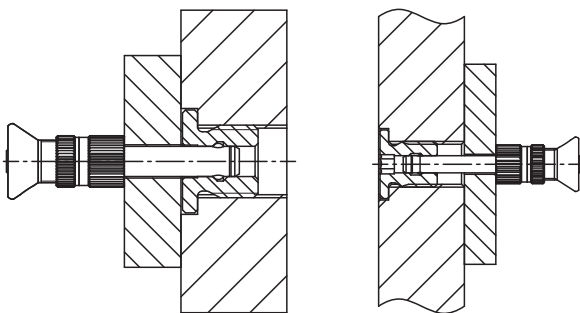
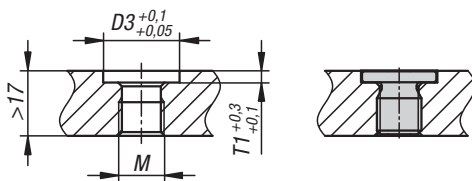
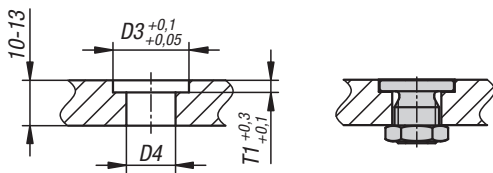
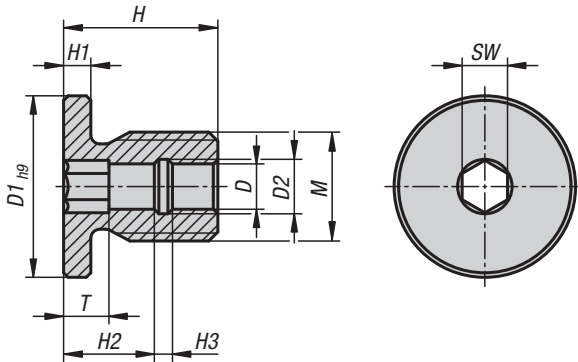
K1462.10512

Note:

Locating bushes for ball lock pins are ideal for easy and quick positioning of ball lock pins and locking pins. The collar serves as a stop at one end. With hex socket to help screw in.

Advantages:

- The collar guarantees a defined screw-in depth.
- Easy and reliable screwing in.
- Can be screwed into various materials.
- Can be screwed from both sides.

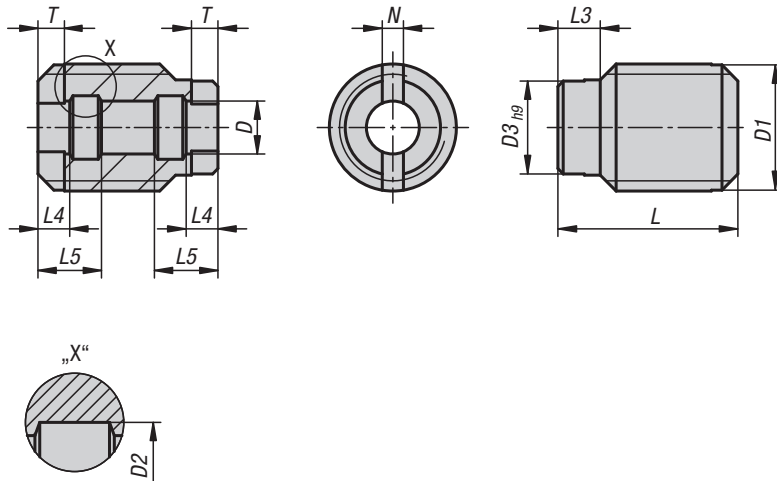


KIPP Locating bushes with collar, stainless steel, for ball lock pins

Order No.	D	D1	D2	D3	D4	H	H1	H2	H3	M	SW	T	T1
K1462.10512	5	20	6	20	13,5	17	3	10	2	M12	5	5	3
K1462.10616	6	24	7,5	24	17,5	20	3	10	5	M16	6	5	3
K1462.10816	8	24	10	24	17,5	20	3	10	5	M16	8	5	3
K1462.11024	10	34	13	34	25	25	5	10	5	M24	10	5	5
K1462.11224	12	34	15	34	25	25	5	10	5	M24	12	5	5
K1462.11630	16	40	20	40	31	28	5	10	8	M30	16	5	5

Locating bushes stainless steel

for ball lock pins



Material:
Stainless steel 1.4305.

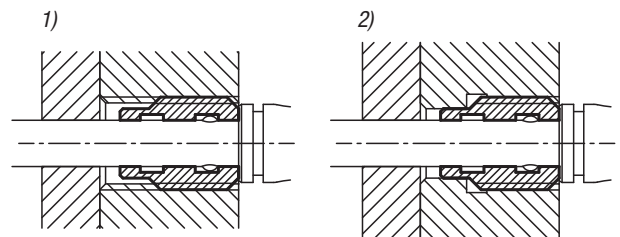
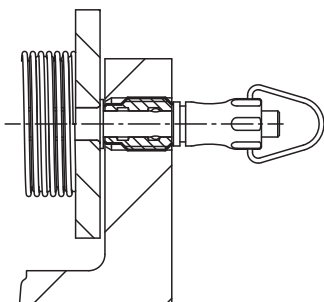
Version:
Bright.

Sample order:
K1416.10512

Note:
The locating bushes are ideal for easy and quick positioning of ball lock pins with head-end lock.

Advantages:
The adapter bushes can be used from both sides. Additional centring of the adapter bush is provided by the centring collar (D3).

Drawing reference:
1) without centring
2) with centring



KIPP Locating bushes stainless steel for ball lock pins

Order No.	D	D1	D2	D3	L	L3	L4	L5	N	T
K1416.10512	5	M12	6	9	17	4	3	6	2	2,5
K1416.10616	6	M16	7,5	12	18	5	3	7	2	2,5
K1416.10816	8	M16	10	12	20,5	5	3,5	8,5	2	2,5
K1416.11024	10	M24x1,5	13	18	21,5	5	3,5	9	2,5	2,5
K1416.11224	12	M30x1,5	15	24	22,5	5	3,5	9,5	2,5	2,5
K1416.11630	16	M30x1,5	20	24	27	5	4,1	11,1	2,5	3

