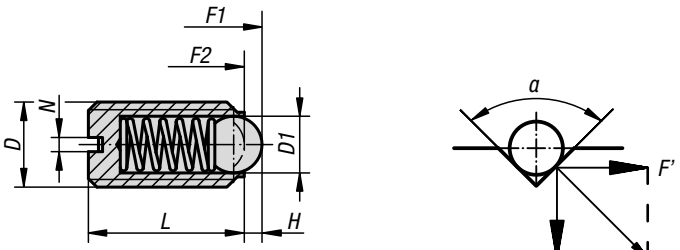
Spring plungers, indexing plungers, ball lock pins

Spring plungers

with slot and ball, steel



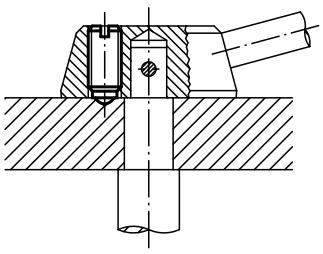
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

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	40
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

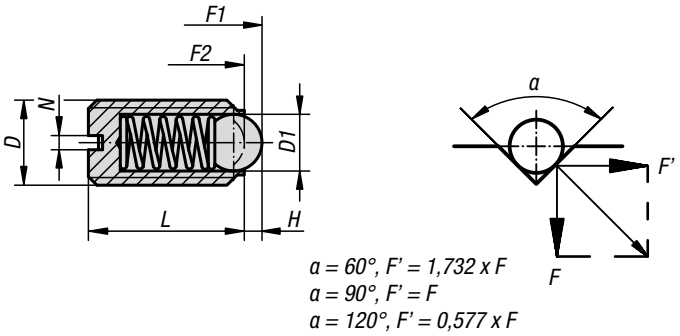
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.203	M3	1,5	7	0,4	0,4	5	7
K0309.204	M4	2,5	9	0,8	0,6	12	22
K0309.205	M5	3	12	0,9	0,8	19	30
K0309.206	M6	3,5	14	1	1	28	40
K0309.208	M8	5	16	1,5	1,2	47	73
K0309.210	M10	6	19	2	1,6	66	100
K0309.212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



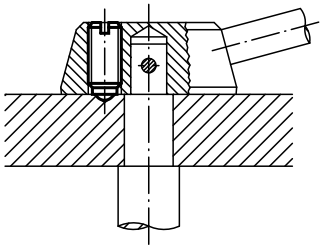
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

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

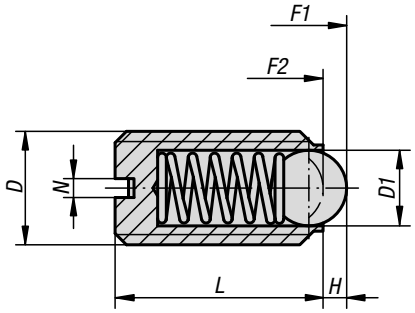
KIPP Spring plungers with slot and ball, long version, standard spring

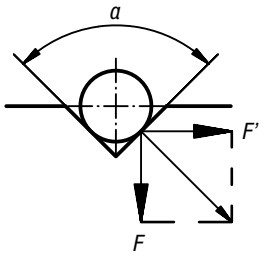
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.404	M4	2,5	16	0,8	0,6	4	10
K0310.405	M5	3	20	0,9	0,8	6	11
K0310.406	M6	3,5	25	1	1	9	13
K0310.408	M8	5	30	1,5	1,2	15	30
K0310.410	M10	6	35	2	1,6	20	35
K0310.412	M12	8	40	2,5	2	30	55
K0310.416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

K0311

Spring plungers

with slot and POM ball, plastic





a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x 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.

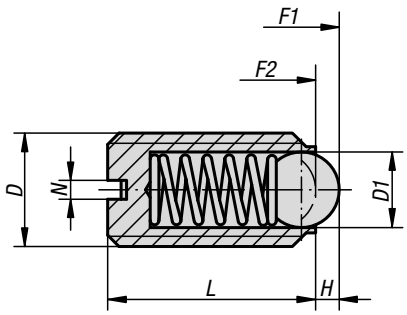
KIPP Spring plungers with slot and POM ball, plastic

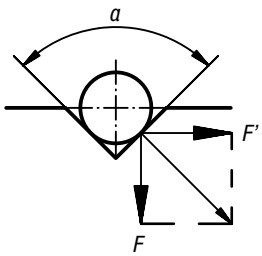
Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0311.06	M6	3,5	1	14	1	9	13
K0311.08	M8	5	1,5	16	1,2	15	30
K0311.10	M10	6	2	19	1,6	20	40

K0312

Spring plungers

with slot and stainless steel ball, plastic





a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

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

Version:
Ball, hardened.

Sample order:
K0312.10

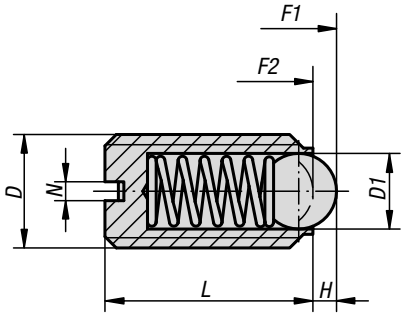
Note:
Spring plungers are used for indexing and positioning. They can also be used as ejectors.

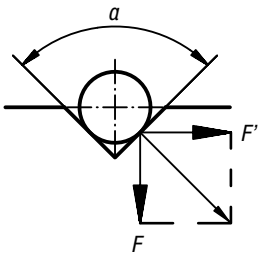
KIPP Spring plungers with slot and stainless steel ball, plastic

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





a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

Material:
Sleeve 1.4305.
Ceramic ball Si_3N_4.
Spring 1.4310.

Version:
Bright.

Sample order:
K0609.05

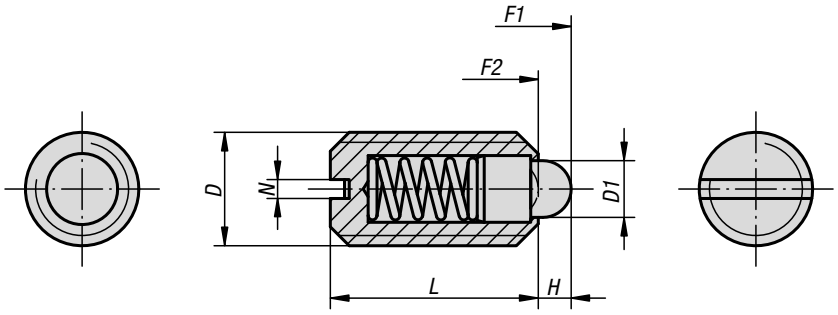
Note:
The combination of excellent material properties is a special feature of silicon nitride (Si_3N_4). These include high resiliance and stability, excellent wear properties and good chemical resistance.

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

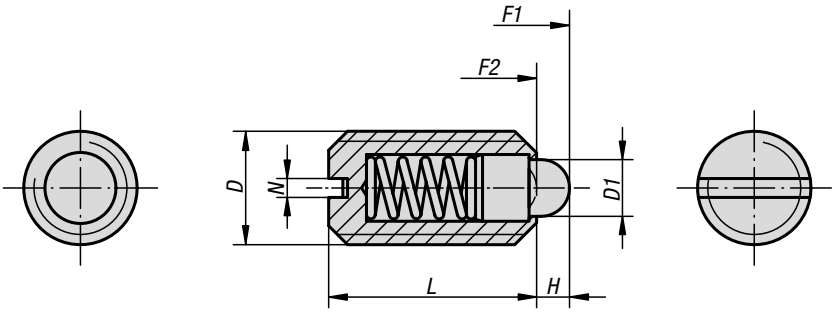
Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.104	M4	1,8	1,5	9	0,6	3	10
K0313.105	M5	2,4	2	12	0,8	3	10
K0313.106	M6	2,7	2	14	1	4	10
K0313.108	M8	4	2	16	1,2	7	15
K0313.110	M10	4,5	2,5	19	1,6	9	16
K0313.112	M12	6	3,5	22	2	14	26
K0313.116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

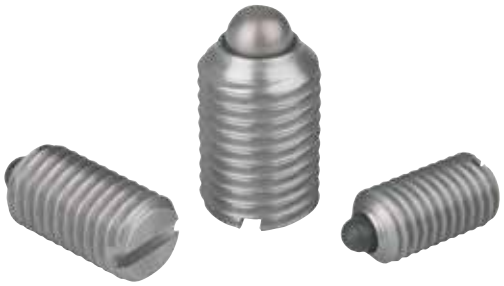
KIPP Spring plungers with slot and thrust pin, reinforced spring force

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

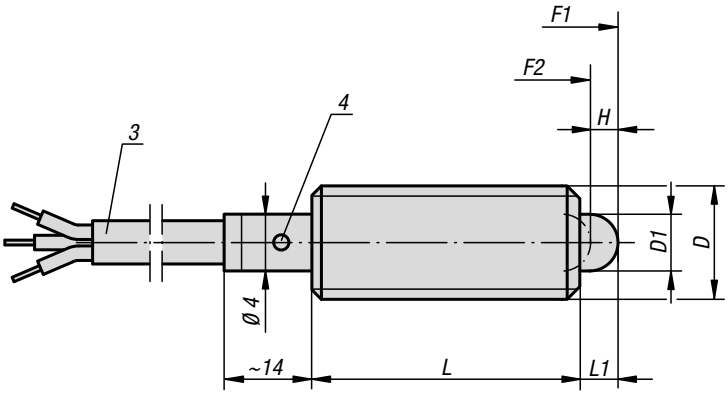
Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.104	M4	1,8	1,5	9	0,6	3	10
K0314.105	M5	2,4	2	12	0,8	3	10
K0314.106	M6	2,7	2	14	1	4	10
K0314.108	M8	4	2	16	1,2	7	15
K0314.110	M10	4,5	2,5	19	1,6	9	16
K0314.112	M12	6	3,5	22	2	14	26
K0314.116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

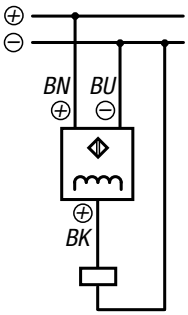
KIPP Spring plungers with slot and thrust pin, reinforced spring force

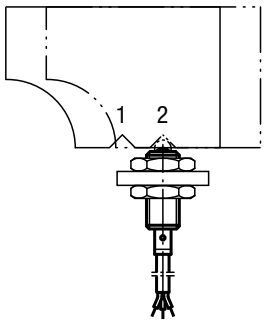
Order No.	D	D1	H	L	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.205	M5	2,4	2	12	0,8	9	25
K0314.206	M6	2,7	2	14	1	11	25
K0314.208	M8	4	2	16	1,2	22	43
K0314.210	M10	4,5	2,5	19	1,6	20	54
K0314.212	M12	6	3,5	22	2	36	94
K0314.216	M16	8,5	4,5	24	2,5	60	110

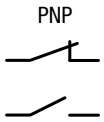
Spring plungers

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 V DC
Current: I max. = 200 mA
Temperature range: -25 °C – +70 °C
Protection class: IP 67

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

Drawing reference:
3) cable Ø 3.5 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

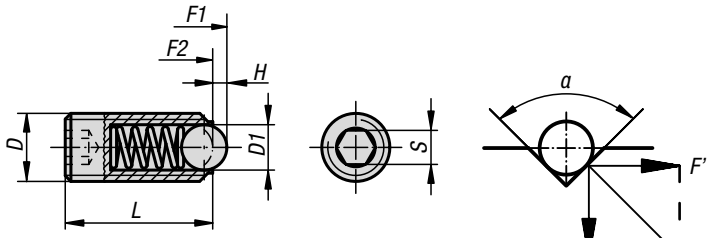
KIPP Spring plungers with status sensor

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

Notes

Spring plungers

with hexagon socket and ball, steel



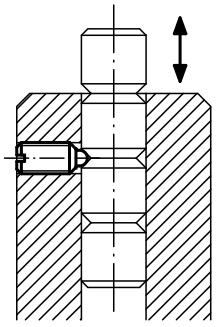
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

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

Version:
Black oxidised. Ball hardened.

Sample order:
K0315.210

column indexing



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	40
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

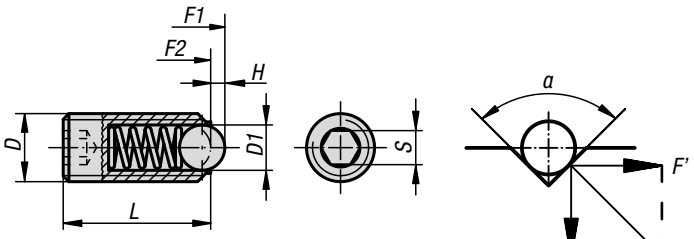
Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.203	M3	1,5	0,4	9	1,5	5	7
K0315.204	M4	2,5	0,8	10	2	12	22
K0315.205	M5	3	0,9	14	2,5	19	30
K0315.206	M6	3,5	1	15	3	28	40
K0315.208	M8	5	1,5	18	4	47	73
K0315.210	M10	6	2	23	5	66	100
K0315.212	M12	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

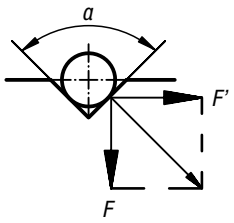
KIPP Spring plungers with hexagon socket and ball, long version, standard spring

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	40
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





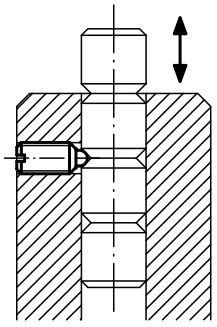
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

Version:
Bright. Ball hardened.

Sample order:
K0316.210

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

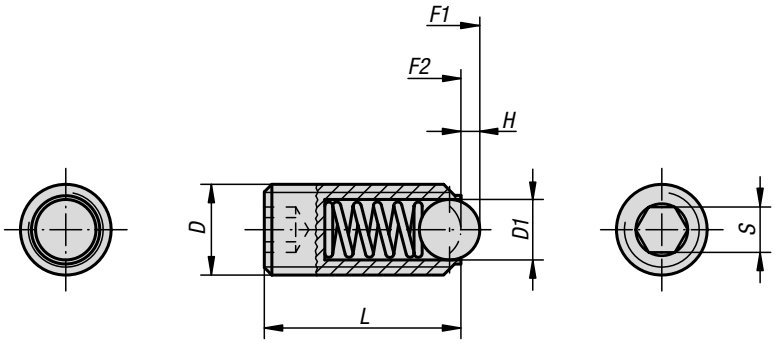
Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.203	M3	1,5	0,4	9	1,5	5	7
K0316.204	M4	2,5	0,8	10	2	12	22
K0316.205	M5	3	0,9	14	2,5	19	30
K0316.206	M6	3,5	1	15	3	28	40
K0316.208	M8	5	1,5	18	4	47	73
K0316.210	M10	6	2	23	5	66	100
K0316.212	M12	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



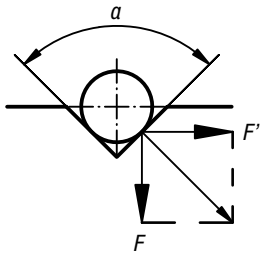
Material:
Sleeve 1.4305.
Ceramic ball Si_3N_4.
Spring 1.4310.

Version:
Bright.

Sample order:
K0610.05

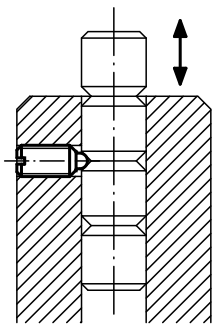
Note:
The combination of excellent material properties is a special feature of silicon nitride (Si_3N_4). These include high resiliance and stability, excellent wear properties and good chemical resistance.

Advantages:
High temperature resistance.



a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

column indexing

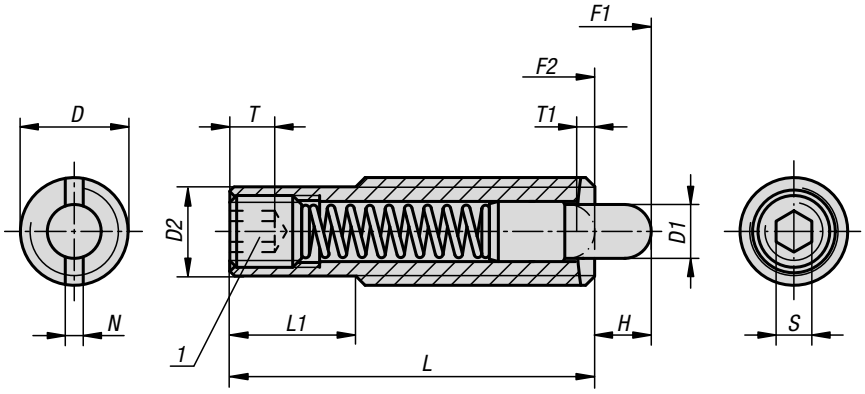


KIPP Spring plungers with hexagon socket and ceramic ball, stainless steel

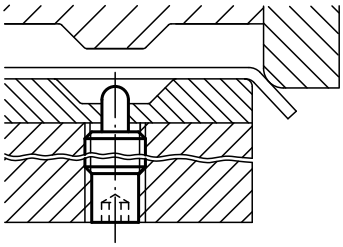
Order No.	D	D1	H	L	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0610.05	M5	3	0,9	14	2,5	6	11
K0610.06	M6	3,5	1	15	3	9	13
K0610.08	M8	5	1,5	18	4	15	30
K0610.10	M10	6	2	23	5	20	35
K0610.12	M12	8	2,5	26	6	30	55
K0610.16	M16	10	3,5	33	8	65	125

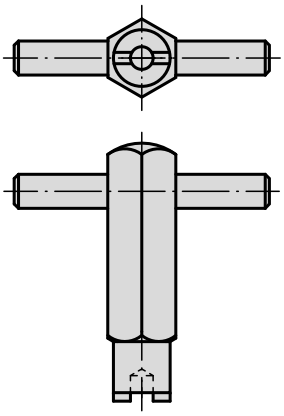
Spring plungers

with hexagon socket and thrust pin, long version

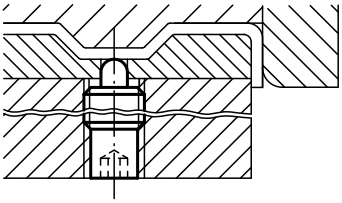


bending





ready to eject



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.

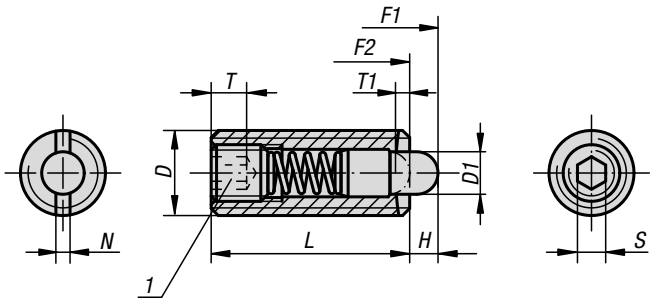
Drawing reference:
1) grub screw glued in

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



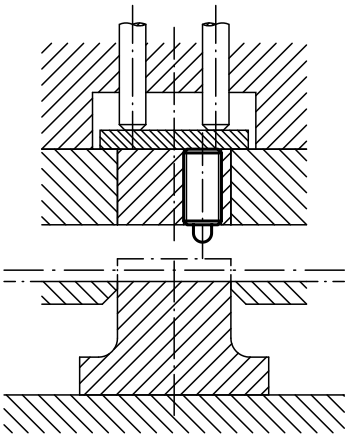
Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel wire grade D.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0317.16

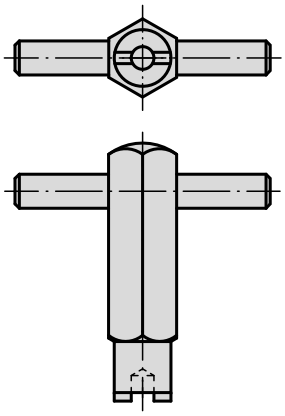
Drawing reference:
1) grub screw glued in

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

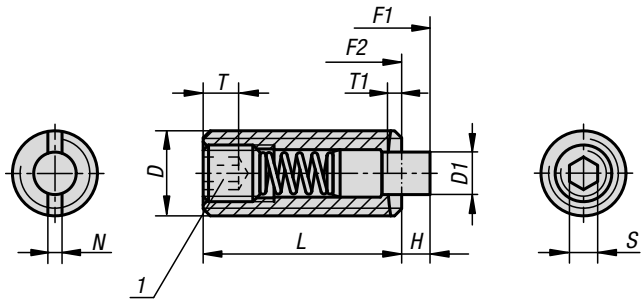
Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. Assembly key
K0317.104	M4	1,5	1,5	15	2	0,6	0,6	1,3	2	7	K0317.904
K0317.105	M5	2,4	2,3	18	2	0,8	0,8	1,5	3	10	K0317.905
K0317.106	M6	2,7	2,5	20	2,5	1	1	2	3	9	K0317.906
K0317.108	M8	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



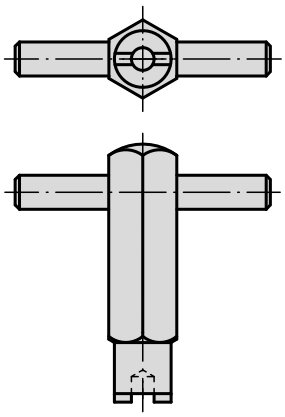
Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel wire grade D.

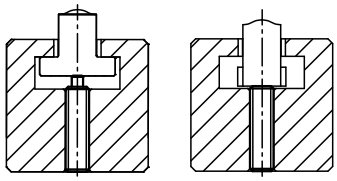
Version:
Black oxidised.
Thrust pin hardened.

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



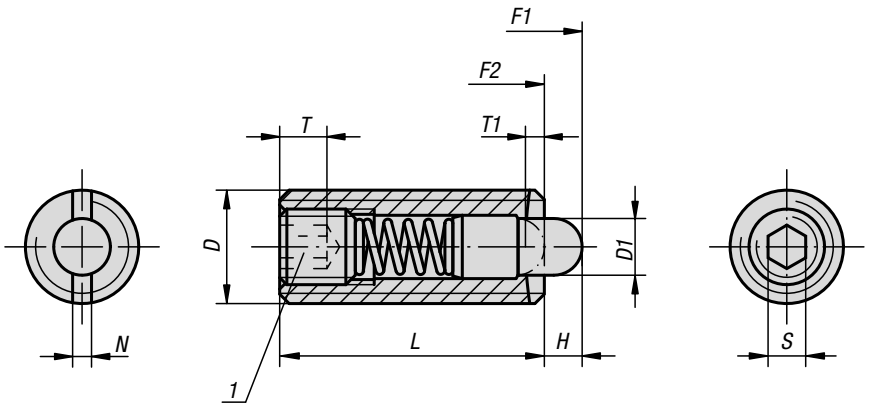


KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force

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



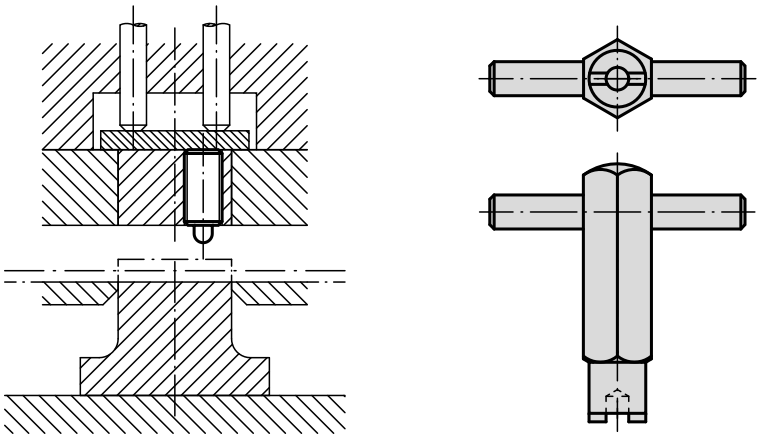
Material:
Sleeve steel grade 5.8.
Thrust pin POM.
Spring grade D steel wire.

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

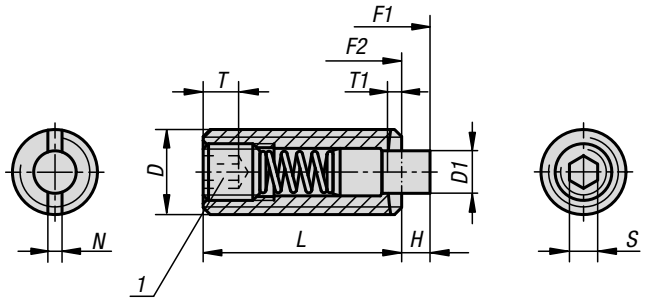
Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. Assembly key
K0318.03	M3	1	1,5	10	1,5	1	0,4	0,7	0,5	3	K0317.903
K0318.04	M4	1,5	1,5	15	2	0,6	0,6	1,3	5	16	K0317.904
K0318.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	6	20	K0317.905
K0318.06	M6	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



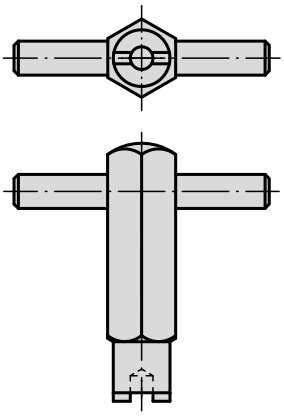
Material:
Sleeve steel grade 5.8.
Thrust pin POM.
Spring grade D steel wire.

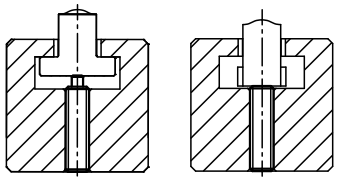
Version:
Black oxidised.

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



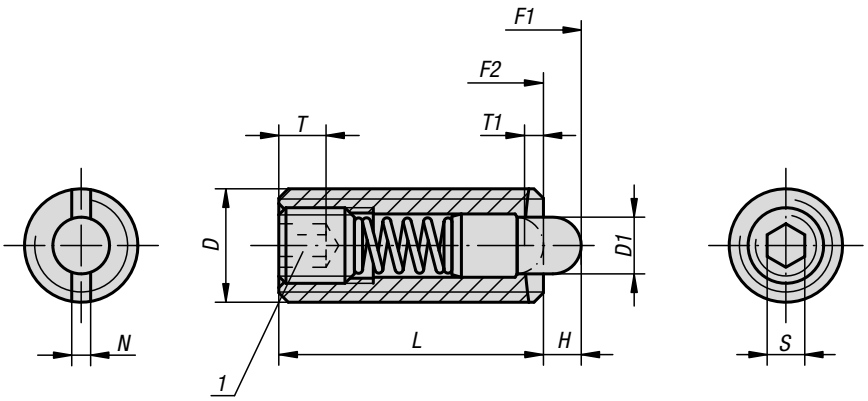


KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force

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



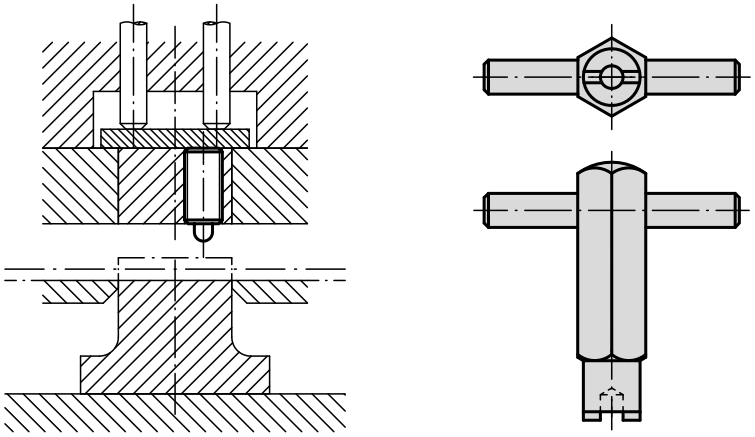
Material:
Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

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

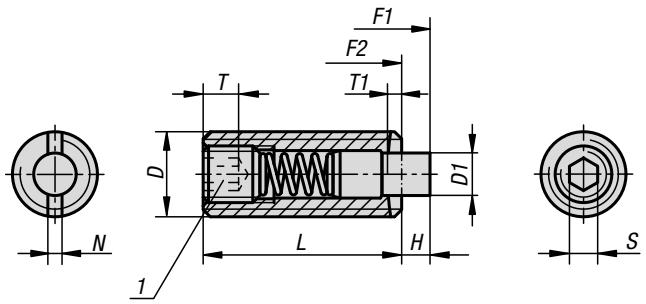
Order No.	D	D1	H	L	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. Assembly key
K0319.03	M3	1	1,5	10	1,5	1	0,4	0,7	0,4	2,5	K0317.903
K0319.04	M4	1,5	1,5	15	2	0,6	0,6	1,3	5	16	K0317.904
K0319.05	M5	2,4	2,3	18	2	0,8	0,8	1,5	5	17	K0317.905
K0319.06	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



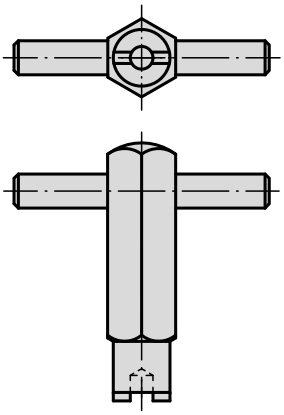
Material:
Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

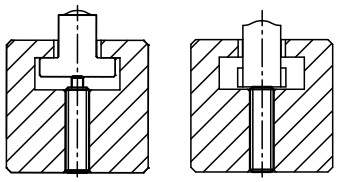
Version:
Bright.
Thrust pin hardened.

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



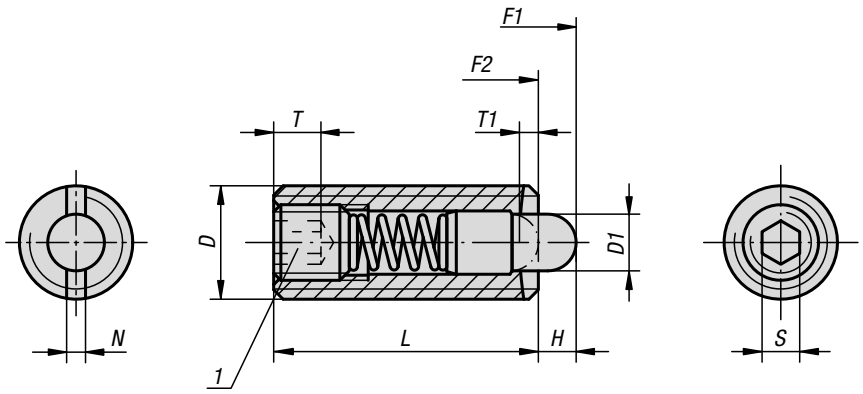


KIPP Spring plungers with hexagon socket and flattened thrust pin, standard spring force

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



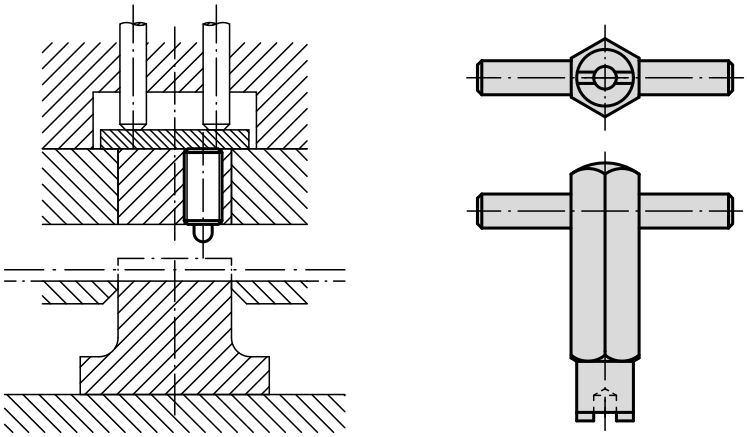
Material:
Sleeve 1.4305.
Thrust pin POM.
Spring 1.4310.

Version:
Bright.

Sample order:
K0320.16

Drawing reference:
1) grub screw glued in

application example

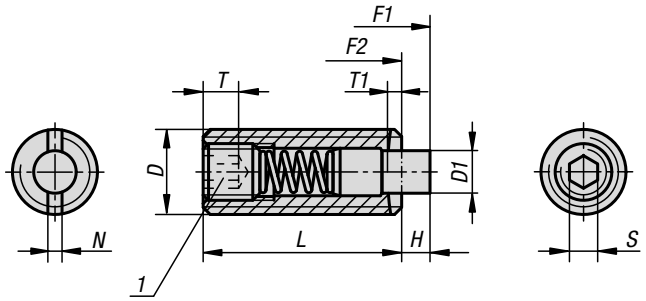


KIPP Spring plungers with hexagon socket and POM thrust pin, stainless steel

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



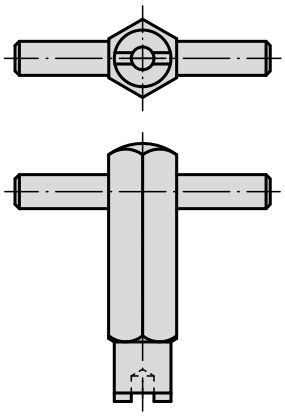
Material:
Sleeve 1.4305.
Thrust pin POM.
Spring 1.4310.

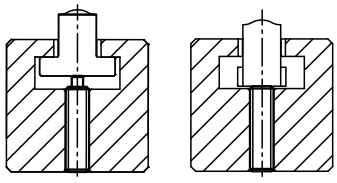
Version:
Bright.

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 thread lock

The most advanced effective way to lock a thread

With the following crucial advantages:

1. Vibration resistant.

The integrated thread lock secures spring plungers efficiently and cost-effectively. No loosening or falling out by impacts, shock or vibration.

2. Extremly 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 thread lock requires neither pre-tensioning nor specific positioning. This is ideal for adjusting spring plungers.

4. Saves assembly time and stocking space.

The thread lock is integrated into the spring plunger. No additional parts required. No circlip, lock washer or locknut. This significantly reduces assembly and storage costs.

5. For repeated use.

When used for the first time, the thread lock will require a slightly higher torque. After the third or fourth time, the last torque value achieved remains almost constant.

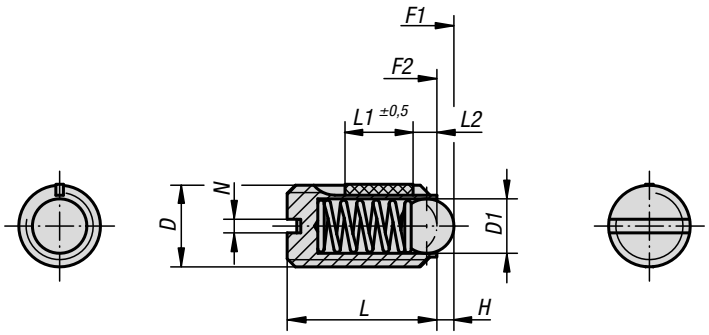
6. Problem solver from M3 to M16.

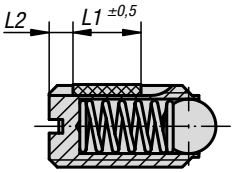
Whether light or heavy duty:
Tell us your task! We will provide you with the suitable spring plungers with integrated thread lock.

Spring plungers

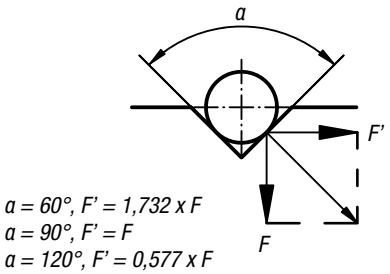
with slot and ball, steel, with thread lock

KIPPlock





D = M3, M4, M5, M6



a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

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

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 force, with thread lock

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	40	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

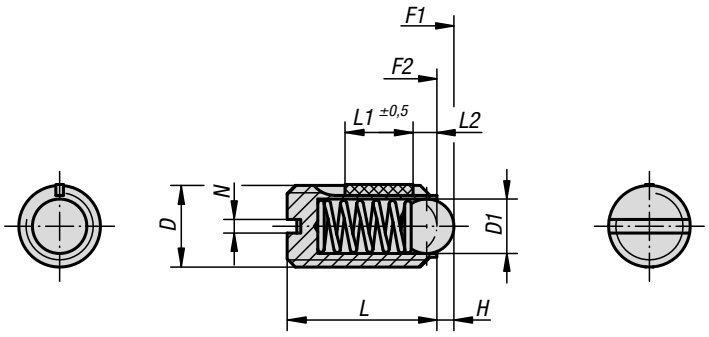
KIPP Spring plungers with slot and ball, strong spring force, with thread lock

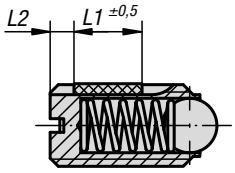
Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0321.203	M3	1,5	0,4	7	4	0,4	5	7	0,1	0,07
K0321.204	M4	2,5	0,8	9	5	0,6	12	22	0,18	0,12
K0321.205	M5	3	0,9	12	6	0,8	19	30	0,12	0,08
K0321.206	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

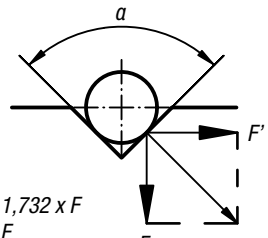
with slot and ball, stainless steel, with thread lock

KIPPlock





D = M3, M4, M5, M6



α = 60°, F' = 1,732 x F
α = 90°, F' = F
α = 120°, F' = 0,577 x F

Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

Thread lock nylon.

Version:
Bright. Ball hardened.

Sample order:
K0322.12

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with slot and ball, standard spring force, with thread lock

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

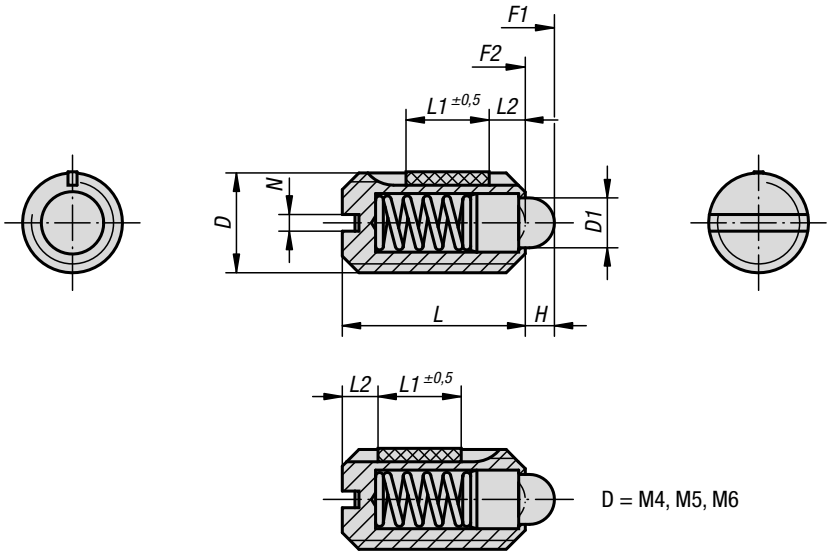
KIPP Spring plungers with slot and ball, strong spring force, with thread lock

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, steel, with thread lock

KIPPlock



D = M4, M5, M6

Material:
Sleeve in steel grade 5.8;
thrust pin in steel.
Spring grade D spring steel wire.

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, with thread lock

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, with thread lock

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

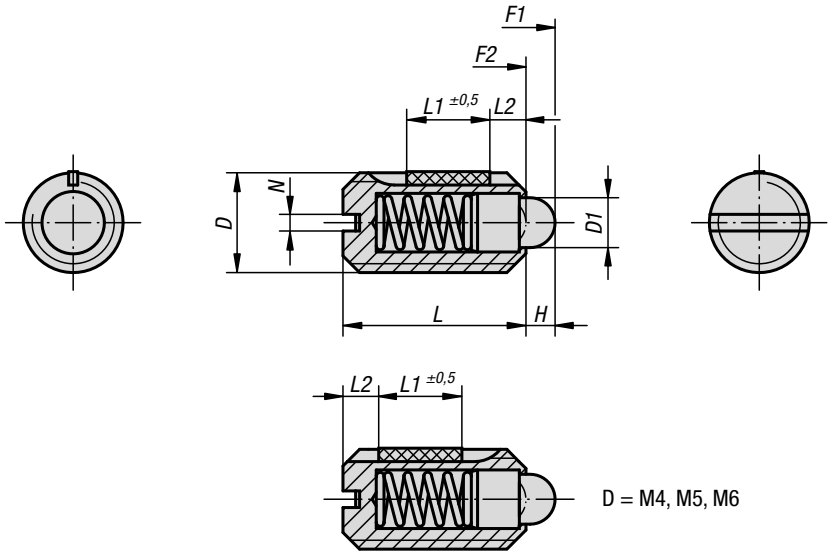
KIPP Spring plungers with slot and thrust pin, heavy spring force, with thread lock

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, stainless steel, with thread lock

KIPPlock



D = M4, M5, M6

Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

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, with thread lock

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, with thread lock

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

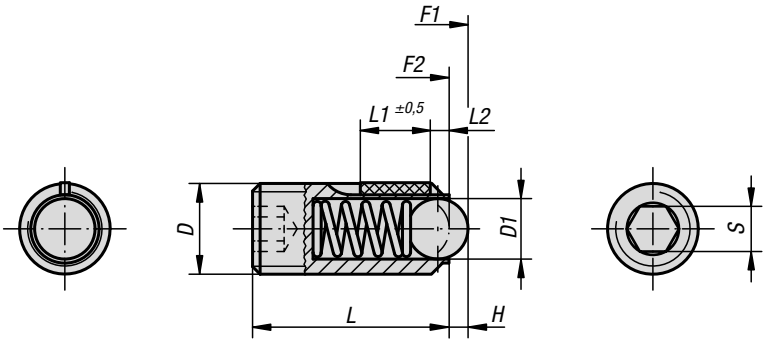
KIPP Spring plungers with slot and thrust pin, heavy spring force, with thread lock

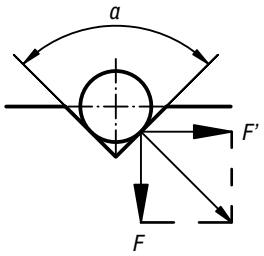
Order No.	D	D1	H	L	L1	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0324.205	M5	2,4	2	12	6	0,8	9	25	0,12	0,08
K0324.206	M6	2,7	2	14	7	1	11	25	0,44	0,21
K0324.208	M8	4	2	16	8	1,2	22	43	1,1	0,38
K0324.210	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 hex socket and ball, steel, with thread lock

KIPPlock





α = 60°, F' = 1,732 x F
α = 90°, F' = F
α = 120°, F' = 0,577 x F

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

Thread lock nylon.

Version:
Black oxidised. Ball hardened.

Sample order:
K0325.08

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with hex socket and ball, standard spring force, with thread lock

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	40	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

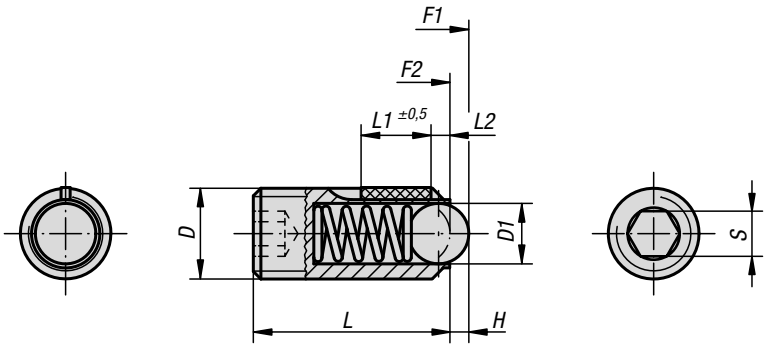
KIPP Spring plungers with hex socket and ball, heavy spring force, with thread lock

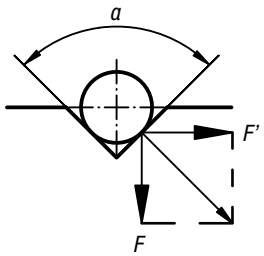
Order No.	D	D1	H	L	L1	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0325.203	M3	1,5	0,4	9	4	1,5	5	7	0,1	0,07
K0325.204	M4	2,5	0,8	10	5	2	12	22	0,18	0,12
K0325.205	M5	3	0,9	14	6	2,5	19	30	0,12	0,08
K0325.206	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 hex socket and ball, stainless steel, with thread lock

KIPPlock





α = 60°, F' = 1,732 x F
α = 90°, F' = F
α = 120°, F' = 0,577 x F

Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

Thread lock nylon.

Version:
Bright. Ball hardened.

Sample order:
K0326.08

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with hex socket and ball, standard spring force, with thread lock

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

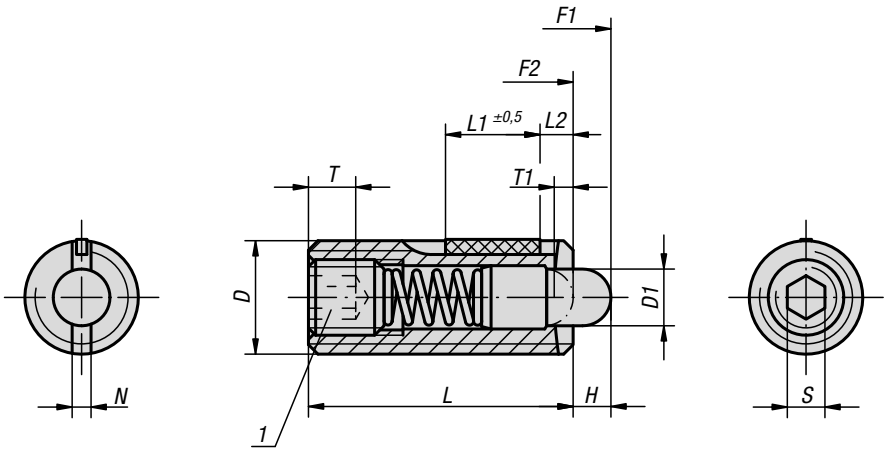
KIPP Spring plungers with hex socket and ball, heavy spring force, with thread lock

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 hex socket and thrust pin, steel, with thread lock

KIPPlock



Material:
Sleeve in steel grade 5.8;
thrust pin in steel.
Spring grade D spring steel wire.

Thread lock nylon.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0327.12

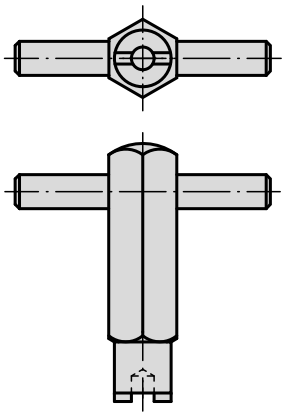
Drawing reference:
L2 = ca. two full threads

1) grub screw glued-in

Spring plungers

with hex socket and thrust pin, steel, with thread lock

KIPPlock



KIPP Spring plungers with hex socket and thrust pin, standard spring force, with thread lock

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 hex socket and thrust pin, light spring force, with thread lock

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

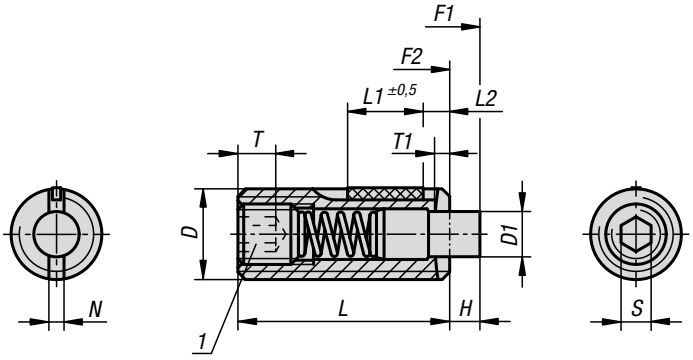
KIPP Spring plungers with hex socket and thrust pin, heavy spring force, with thread lock

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 hex socket and flat thrust pin, steel, with thread lock

KIPPlock



Material:
Sleeve in steel grade 5.8;
thrust pin in steel.
Spring grade D spring steel wire.

Thread lock nylon.

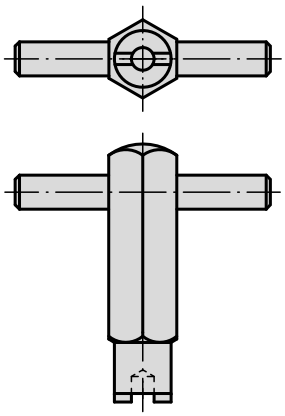
Version:
Black oxidised.
Thrust pin hardened.

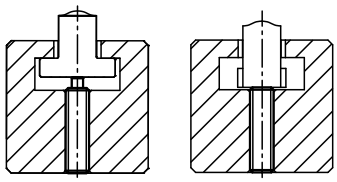
Sample order:
K1371.16

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





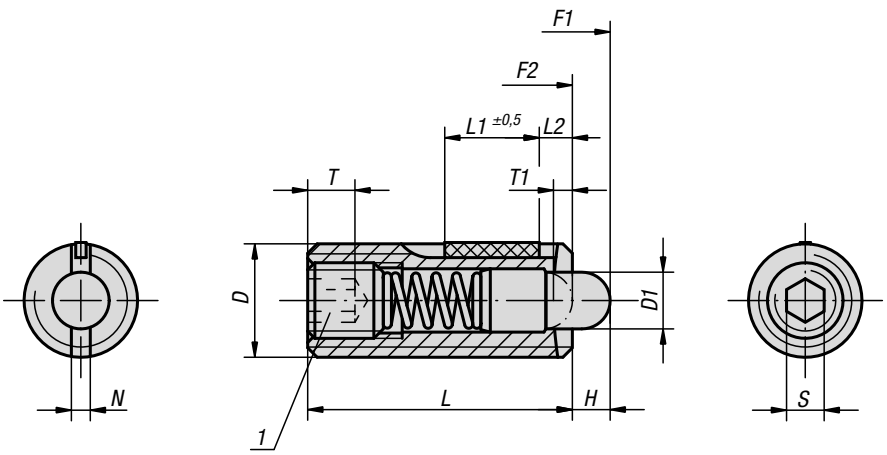
KIPP Spring plungers with hex socket and flat thrust pin, standard spring force, with thread lock

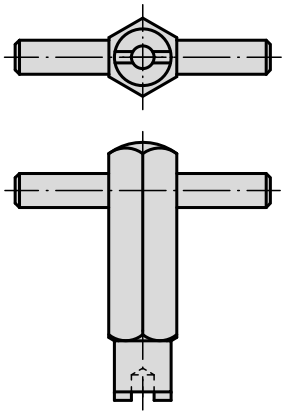
Order No.	D	D1	H	L	L1	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. Assembly key
K1371.05	M5	2,4	2,3	18	7	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K1371.06	M6	2,7	2,5	20	7	2,5	1	1	2	7	20	0,45	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 hex socket and POM thrust pin, steel, with thread lock

KIPPlock





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

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 hex socket and thrust pin, standard spring force, with thread lock

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

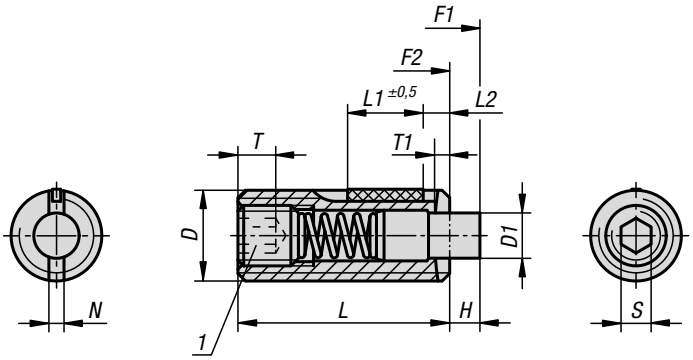
KIPP Spring plungers with hex socket and thrust pin, light spring force, with thread lock

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 hex socket and flat POM thrust pin, steel, with thread lock

KIPPlock



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

Thread lock nylon.

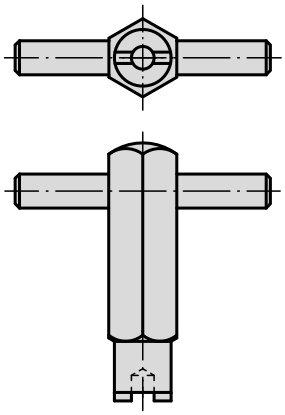
Version:
Black oxidised.

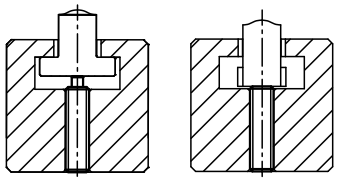
Sample order:
K1373.16

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





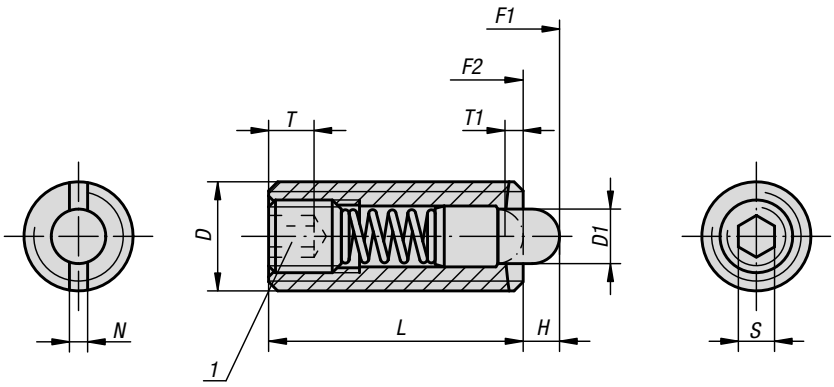
KIPP Spring plungers with hex socket and flat thrust pin, standard spring force, with thread lock

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 hex socket and thrust pin, stainless steel, with thread lock

KIPPlock



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

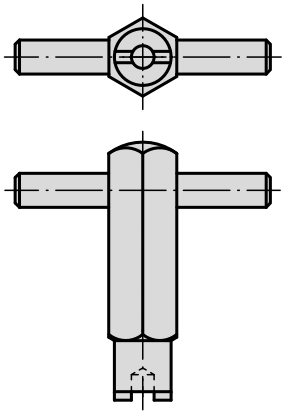
Thread lock nylon.

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 hex socket and thrust pin, standard spring force, with thread lock

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

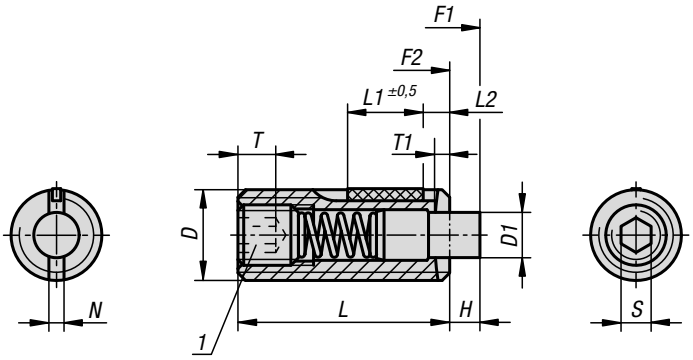
KIPP Spring plungers with hex socket and thrust pin, heavy spring force, with thread lock

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 hex socket and flat thrust pin, stainless steel, with thread lock

KIPPlock



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

Thread lock nylon.

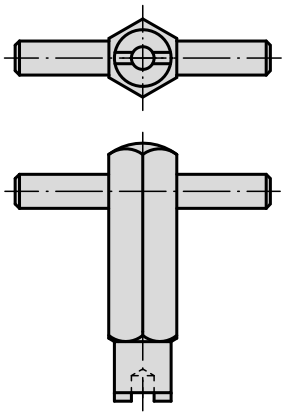
Version:
Bright.
Thrust pin hardened.

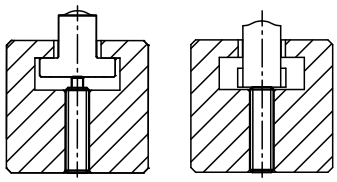
Sample order:
K1380.16

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





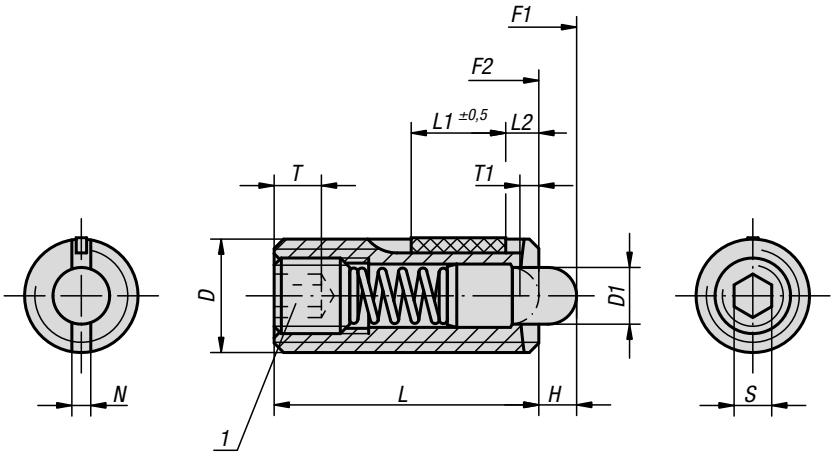
KIPP Spring plungers with hex socket and flat thrust pin, standard spring force, with thread lock

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 hex socket and POM thrust pin, stainless steel, with thread lock

KIPPlock



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

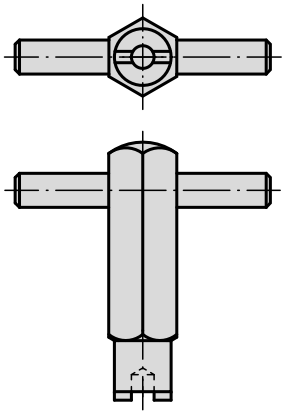
Thread lock nylon.

Version:
Bright.

Sample order:
K0330.12

Drawing reference:
L2 = ca. two full threads

1) grub screw glued-in



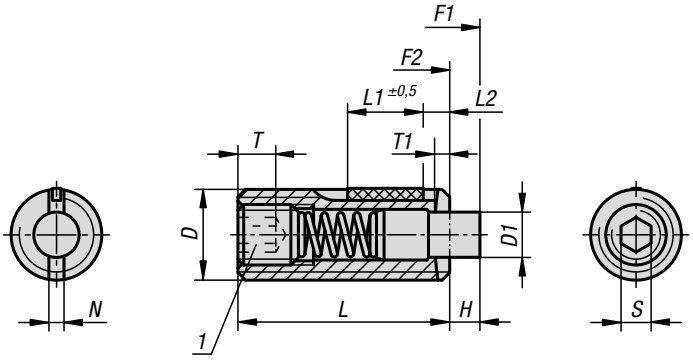
KIPP Spring plungers with hex socket and thrust pin, standard spring force, with thread lock

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 hex socket and flat POM thrust pin, stainless steel, with thread lock

KIPPlock



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

Thread lock nylon.

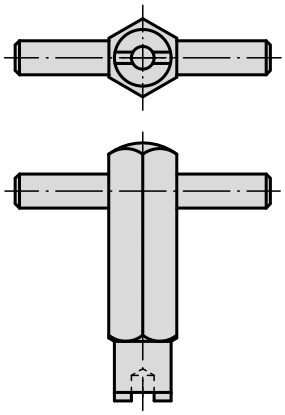
Version:
Bright.

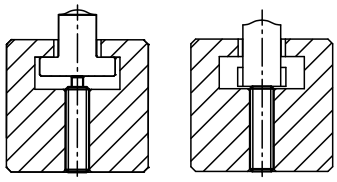
Sample order:
K1382.16

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



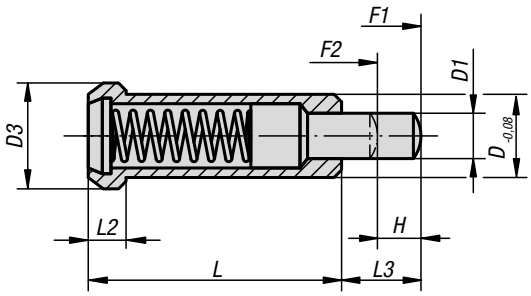


KIPP Spring plungers with hex socket and flat thrust pin, standard spring force, with thread lock

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

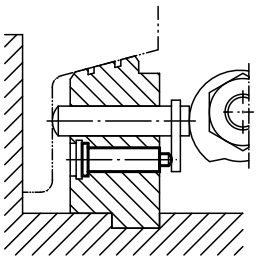


Material:
Steel.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0331.10

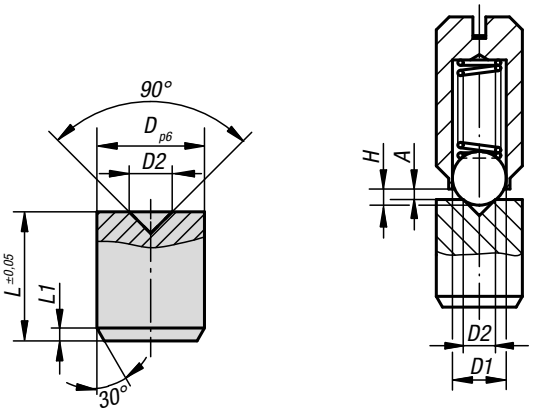
Note:
These spring plungers are chiefly used as ejectors and spring stops in machine construction.



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

Locators



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

Material:
Steel.

Version:
Bright, hardened.

Sample order:
K0332.05020

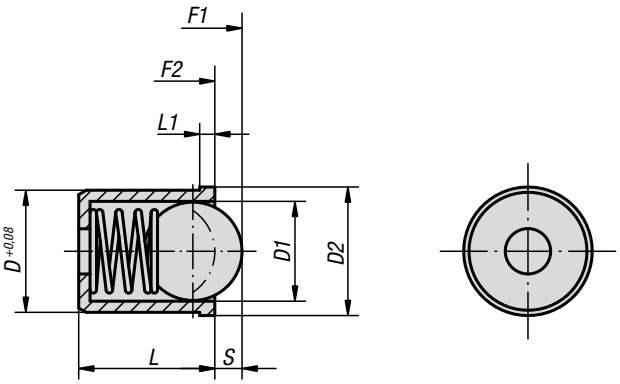
Note:
If abrasion-resistant and exact locking is necessary, locators can be used together with spring plungers, especially with strong spring force.

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

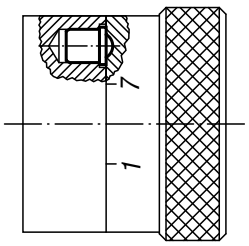
smooth version, stainless steel



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

Version:
Sleeve bright.
Steel ball hardened and bright.

Sample order:
K0333.05

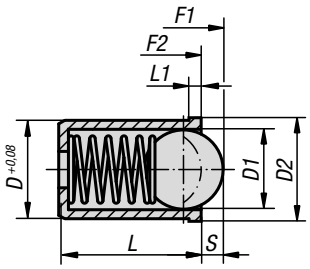


KIPP Spring plungers smooth version, stainless steel

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.

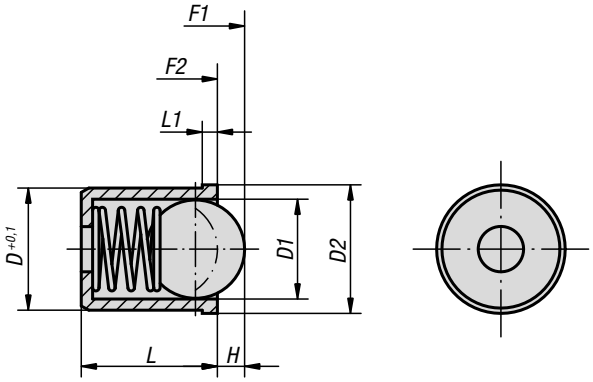
Sample order:
K0333.104

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.

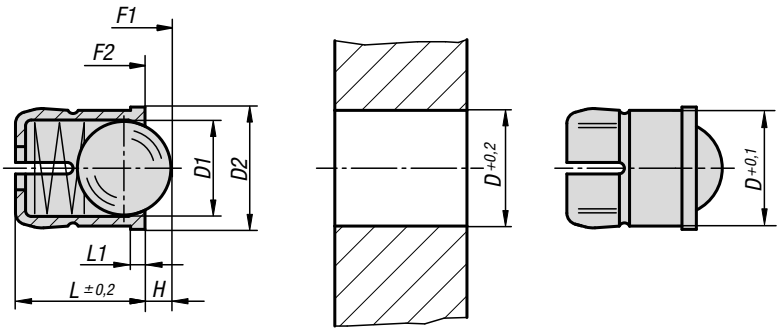
Sample order:
K0334.05

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

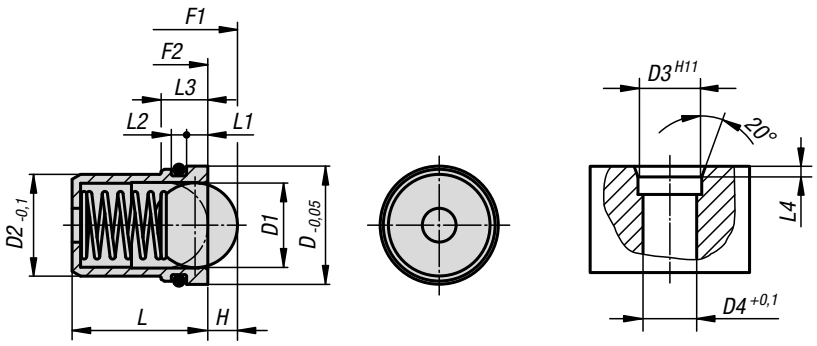
Note:
The self-locking function of the spring plunger enables simple assembly and secure overhead installation.

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



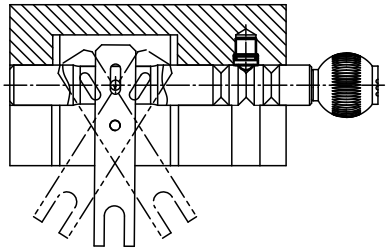
Material:
Sleeve, spring and ball stainless steel.
O-ring NBR.

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.

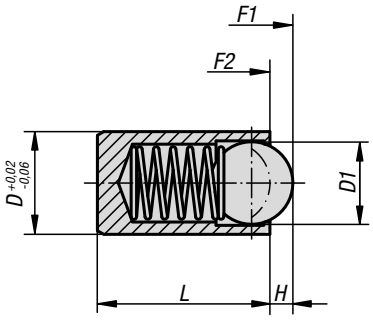


KIPP Spring plungers with detent ring

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

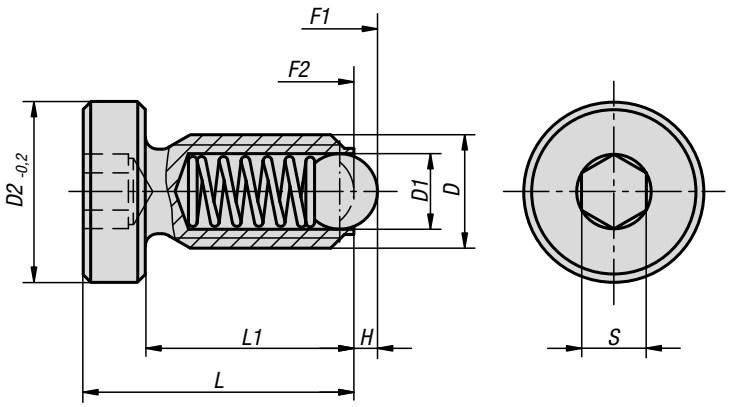
KIPP Spring plungers smooth version, without collar, stainless steel

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

K0336

Spring plungers

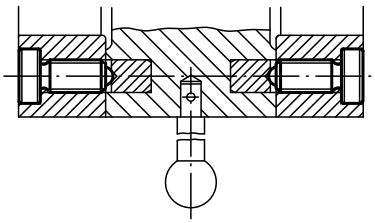
with head



Material:
Steel or stainless steel.

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

Sample order:
K0336.10



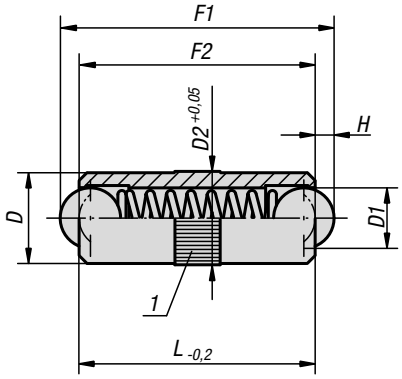
KIPP Spring plungers with head

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
-	**K0336.101**	M10	6	16	2	26	20	5	20	35
K0336.10	-	M10	6	16	2	26	20	5	20	40
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

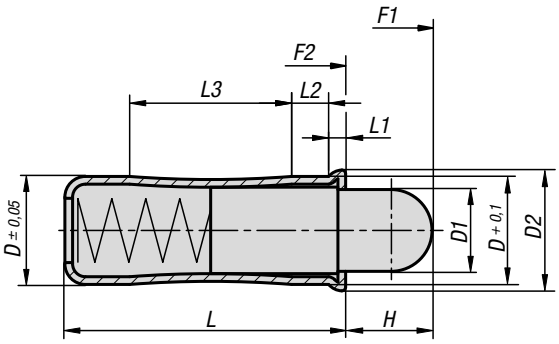
Drawing reference:
1) knurl

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

Spring plungers

smooth version



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

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

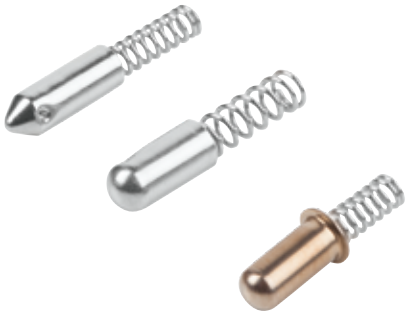
Sample order:
K1172.08

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

Spring sleeves



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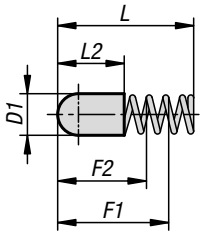

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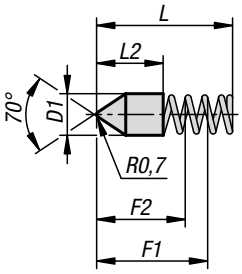

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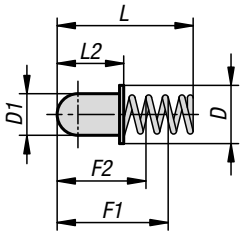


Material:
Sleeve, steel or 1.4303 stainless steel.
Spring, 1.4310 stainless steel wire.

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

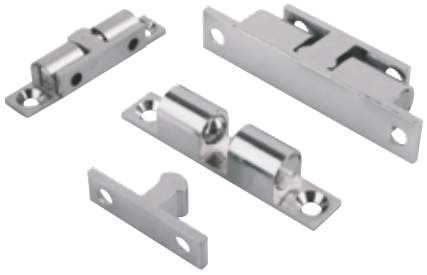
Sample order:
K1277.112216

Note:
Spring sleeves are mainly used as indexing and positioning elements.

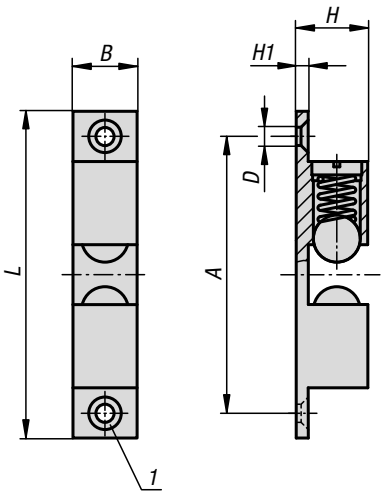
KIPP Spring sleeves

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

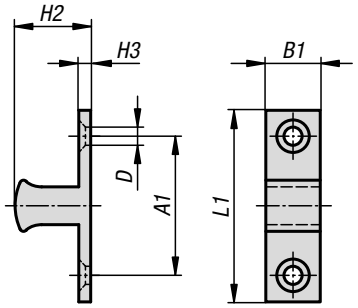
Double ball catches



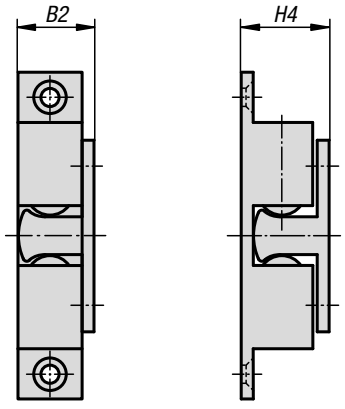
housing



latch bracket



catch



from side

from front

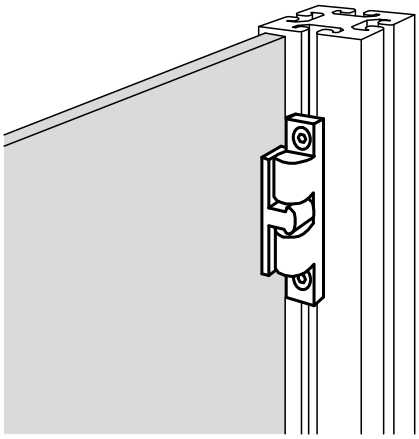
Material:
Housing and latch brass, die-cast zinc or stainless steel 1.4401.
Balls and springs stainless steel.

Version:
Brass and die-cast zinc chromed.
Stainless steel abrasive blasted.
Balls and springs bright 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.

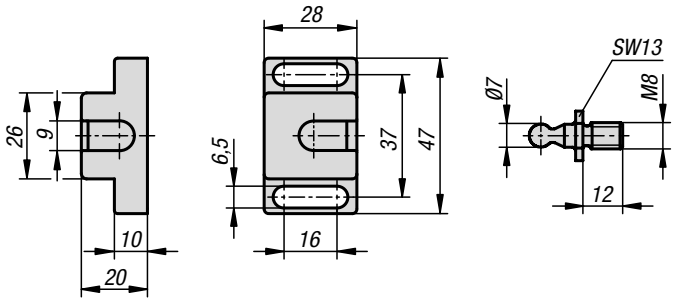
Drawing reference:
1) counterbore DIN 74-A



KIPP Double ball catches

Order No.	Main material	Surface finish body	A	A1	B	B1	B2	D	H	H1	H2	H3	H4	L	L1	Clamping force ca. N	Spring strength
K0583.50	brass	chromed	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	standard
K0583.60	brass	chromed	50	23,5	11	9	13,5	4,8	13,2	2,4	13,5	2,2	15,5	60	35	30±7	standard
K0583.70	brass	chromed	58	30	13	12	15,2	4,8	15	2,4	15,7	2,2	18,1	68,4	40,2	25±5	standard
K0583.322	stainless steel	blasted	25	11	8	8	10	3,2	9	2	8,5	2	11,5	32	18	8	standard
K0583.432	stainless steel	blasted	35	16	8	7,5	10,5	3,2	10	2,5	11	2,5	13,5	43	25	13	standard
K0583.502	stainless steel	blasted	40	20	10	9	12,9	4,2	12,2	2,9	13,2	2,9	15,9	50	30	18	standard
K0583.702	stainless steel	blasted	60	30	13	10,5	17	4,2	17	4	19	4	23	70	42	38	standard
K0583.430	zinc	chromed	35	16	8	7,5	10,5	3,2	10	2,5	11	2,5	13,5	43	25	13	standard
K0583.500	zinc	chromed	40	20	10	9	12,9	4,2	12,2	2,9	13,2	2,9	15,9	50	30	18	standard
K0583.700	zinc	chromed	60	30	13	10,5	17	4,2	17	4	19	4	23	70	42	38	standard

Ball catch

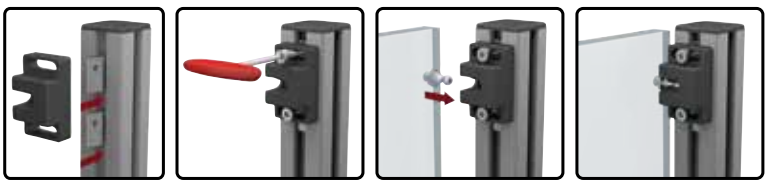


Material:
Fibreglass reinforced polyamide.
Ball pins, steel or stainless steel 1.4301.

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.

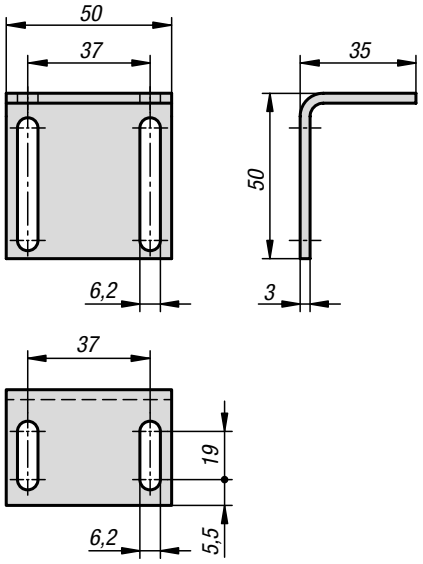


KIPP Ball catch

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

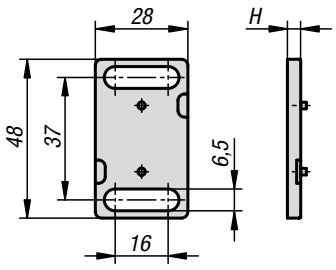
KIPP Angle brackets for ball catch

Order No.	Dimensions
K1294.9503550	see drawing

K1294

Riser plates

for ball catch



Material:
Polyamide fibreglass reinforced.

Version:
black.

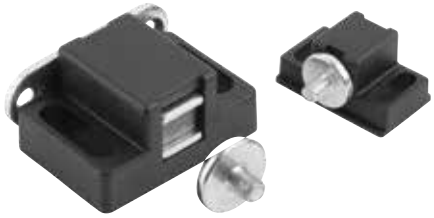
Sample order:
K1294.94

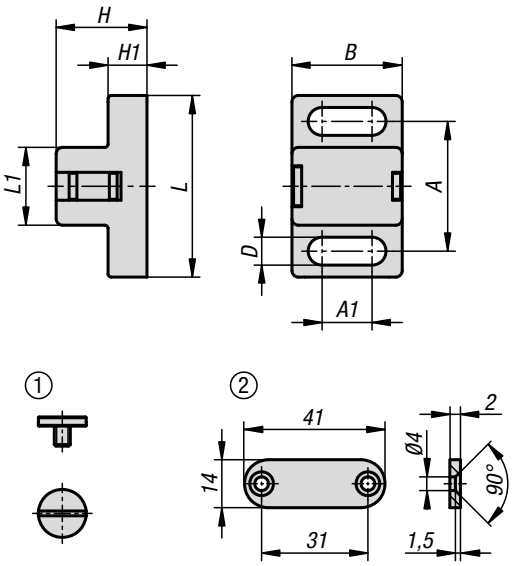
Note:
These riser plates enable the height of the ball catch to be increased.

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

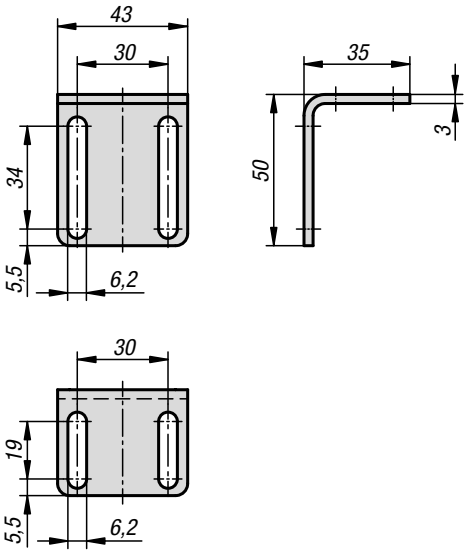
Note:
Magnetic catch for swing and sliding doors. The elongated holes enable flexible positioning on aluminium profiles and panel elements.

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

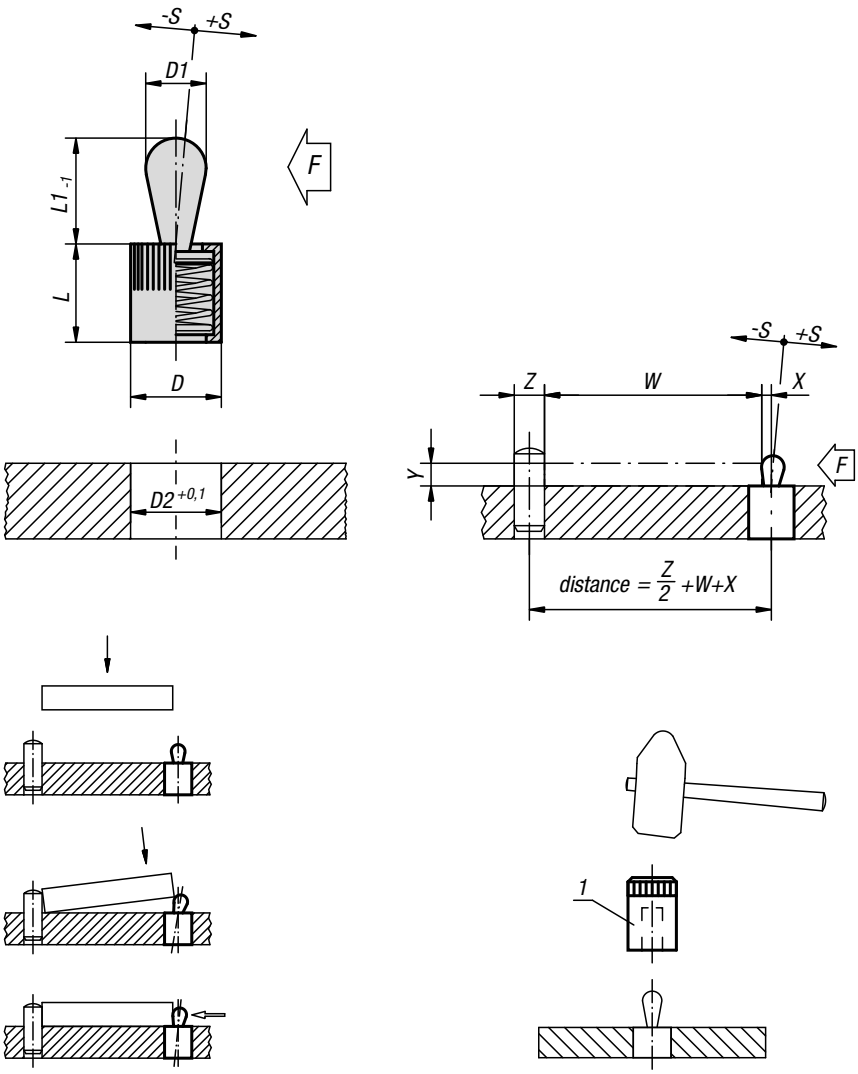
Note:
These angle brackets enable the magnetic catch to be flexibly positioned.

KIPP Angle bracket for magnetic lock

Order No.	Dimensions
K1295.9503543	see drawing

Notes

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

Lateral spring plungers

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

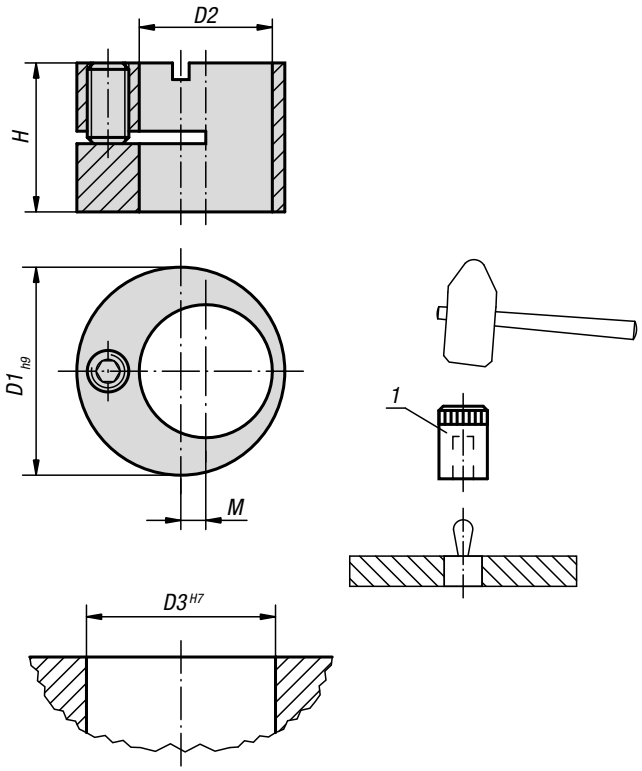
Order No.	D	D1	L	L1	D2	±S	F ca.N	X if Y = 1	X if Y = 2	X if Y = 3	X if Y = 4.5	X if Y = 6	X if Y = 8	Order No. assembly tool
K0368.71034	6	3	7	4	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.71054	10	5	11	6,7	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.71064	10	6	11	10,7	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05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

Eccentric bushes and assembly tools

for lateral spring plungers



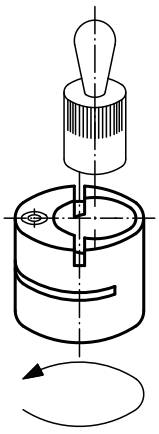
Material:
Steel.

Version:
Black oxidised.

Sample order:
K0369.180

Note:
Eccentric 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

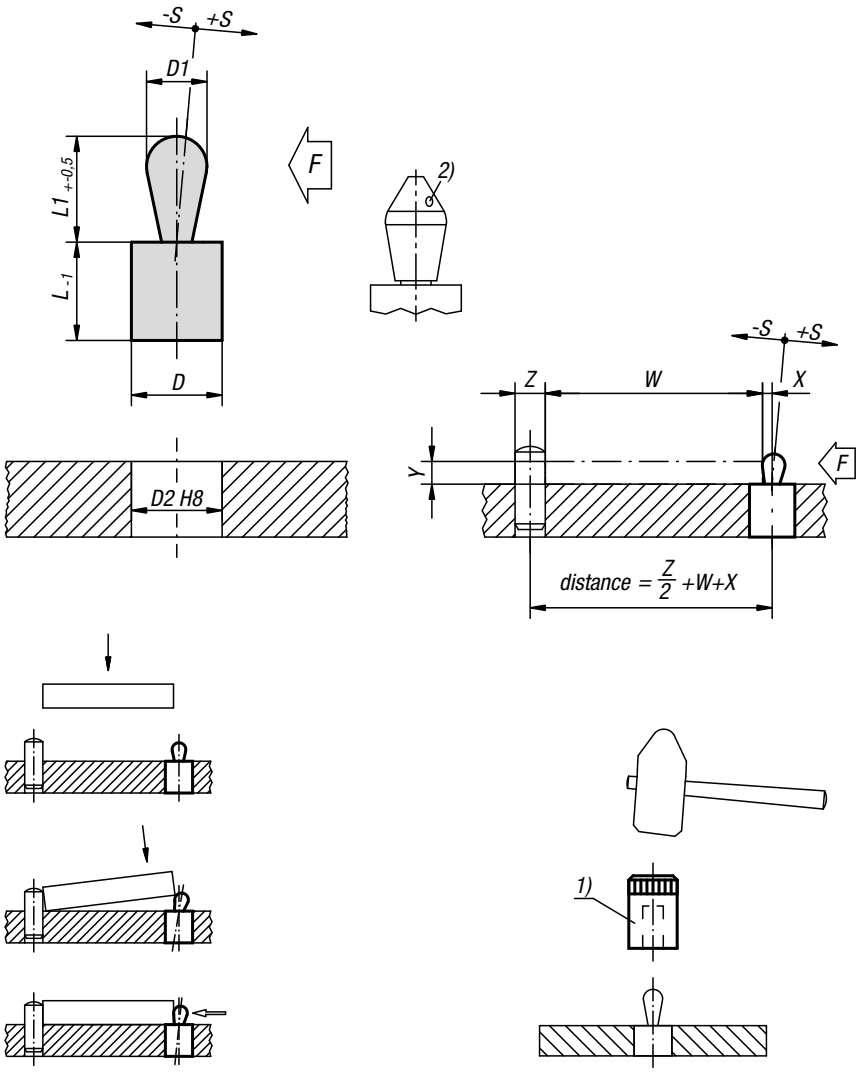
KIPP Eccentric bushes for lateral spring plungers

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

Notes

Lateral spring plungers

with plastic spring



Material:
Sleeve and spring plastic
Thrust pin steel, stainless steel or POM

Version:
Thrust pin (steel) case-hardened and black oxidised.
Thrust pin (stainless steel) bright
Thrust pin (POM) white.

Sample order:
K1733.100307

Note:
Lateral spring plungers are used for positioning, holding and fastening workpieces in applications where there is increased presence of dirt.
For example: painting and sandblasting.

Calculation dimension X:
Y > = L1-D1/2, therefore X=D1/2-S
Y < L1-D1/2, therefore X =D1/2-S-((L1-D1/2-Y)*0,123)

Light spring force = blue spring
Standard spring force = red spring
Strong spring force = green spring

Assembly:
The sleeve is pressed into the hole.
It is recommended to moisten the sleeve before assembly.

KIPP Lateral spring plungers, steel thrust pins

Order No.	Version 1	Version 2	D	D1	D2	L	L1	±S	F ca.N	Order No. assembly tool
K1733.100307	light spring force	different pin form	6	3	5,9	7	3,7	0,4	10	K1733.03
K1733.100409	light spring force	-	8	4	7,9	9	5,2	0,6	15	K1733.04
K1733.100509	light spring force	-	10	5	9,9	9	7,3	0,8	30	K1733.05
K1733.100609	light spring force	-	10	6	9,9	9	10,3	1	20	K1733.05
K1733.200307	standard spring force	different pin form	6	3	5,9	7	3,7	0,4	20	K1733.03
K1733.200409	standard spring force	-	8	4	7,9	9	5,2	0,6	30	K1733.04
K1733.200509	standard spring force	-	10	5	9,9	9	7,3	0,8	60	K1733.05
K1733.200609	standard spring force	-	10	6	9,9	9	10,3	1	30	K1733.05
K1733.200813	standard spring force	-	12	8	11,9	13	13,3	1,2	50	K1733.08
K1733.201016	standard spring force	-	16	10	15,9	16	16,9	1,6	80	K1733.10
K1733.300509	intensified spring force	-	10	5	9,9	9	7,3	0,8	90	K1733.05
K1733.300609	intensified spring force	-	10	6	9,9	9	10,3	1	60	K1733.05
K1733.300813	intensified spring force	-	12	8	11,9	13	13,3	1,2	100	K1733.08
K1733.301016	intensified spring force	-	16	10	15,9	16	16,9	1,6	160	K1733.10

Lateral spring plungers

with plastic spring

Drawing reference:
1) Assembly tool
2) Some sizes have a different pin form

Y = workpiece height
W = workpiece length
X = coordinate dimension
Z = stop diameter

KIPP Lateral spring plungers, stainless steel thrust pins

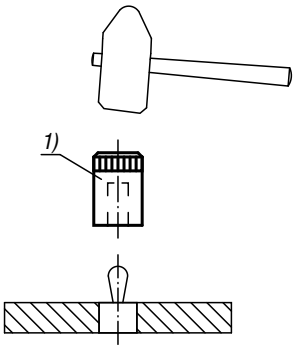
Order No.	Version 1	Version 2	D	D1	D2	L	L1	±S	F ca.N	Order No. assembly tool
K1733.110307	light spring force	different pin form	6	3	2,9	7	3,7	0,4	10	K1733.03
K1733.110409	light spring force	-	8	4	7,9	9	5,2	0,6	15	K1733.04
K1733.110509	light spring force	-	10	5	9,9	9	7,3	0,8	30	K1733.05
K1733.110609	light spring force	-	10	6	9,9	9	10,3	1	20	K1733.05
K1733.210307	standard spring force	different pin form	6	3	5,9	7	3,7	0,4	20	K1733.03
K1733.210409	standard spring force	-	8	4	7,9	9	5,2	0,6	30	K1733.04
K1733.210509	standard spring force	-	10	5	9,9	9	7,3	0,8	60	K1733.05
K1733.210609	standard spring force	-	10	6	9,9	9	10,3	1	30	K1733.05
K1733.210813	standard spring force	-	12	8	11,9	13	13,3	1,2	50	K1733.08
K1733.211016	standard spring force	-	16	10	15,9	16	16,9	1,6	80	K1733.10
K1733.310509	intensified spring force	-	10	5	9,9	9	7,3	0,8	90	K1733.05
K1733.310609	intensified spring force	-	10	6	9,9	9	10,3	1	60	K1733.05
K1733.310813	intensified spring force	-	12	8	11,9	13	13,2	1,2	100	K1733.08
K1733.311016	intensified spring force	-	16	10	15,9	16	16,6	1,6	160	K1733.10

KIPP Lateral spring plungers, POM thrust pins

Order No.	Version 1	Version 2	D	D1	D2	L	L1	±S	F ca.N	Order No. assembly tool
K1733.120307	light spring force	different pin form	6	3	5,9	7	3,7	0,4	10	K1733.03
K1733.120409	light spring force	-	8	4	7,9	9	5,2	0,6	15	K1733.04
K1733.120509	light spring force	-	10	5	9,9	9	7,3	0,8	30	K1733.05
K1733.120609	light spring force	-	10	6	9,9	9	10,3	1	20	K1733.05
K1733.220307	standard spring force	different pin form	6	3	5,9	7	3,7	0,4	20	K1733.03
K1733.220409	standard spring force	-	8	4	7,9	9	5,2	0,6	30	K1733.04
K1733.220509	standard spring force	-	10	5	9,9	9	7,3	0,8	60	K1733.05
K1733.220609	standard spring force	-	10	6	9,9	9	10,3	1	30	K1733.05
K1733.220813	standard spring force	-	12	8	11,9	13	13,3	1,2	50	K1733.08
K1733.221016	standard spring force	-	16	10	15,9	16	16,9	1,6	80	K1733.10
K1733.320509	intensified spring force	-	10	5	9,9	9	7,3	0,8	90	K1733.05
K1733.320609	intensified spring force	-	10	6	9,9	9	10,3	1	60	K1733.05
K1733.320813	intensified spring force	-	12	8	11,9	13	13,3	1,2	100	K1733.08
K1733.321016	intensified spring force	-	16	10	15,9	16	16,9	1,6	160	K1733.10

Assembly tool

for lateral spring plungers with plastic spring



Material:
Steel.

Version:
Black oxidised.

Sample order:
K1733.03

Note:
Lateral spring plungers with plastic pins can be fitted easily using the assembly tool.

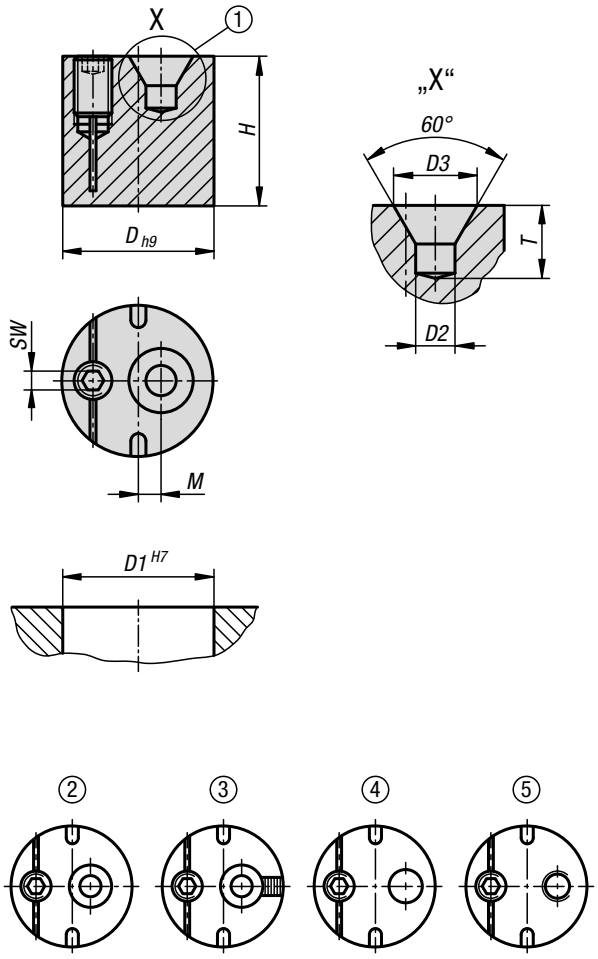
Drawing reference:
1) assembly tool

KIPP Assembly tool for lateral spring plungers with plastic spring

Order No.	Suitable for lateral spring plungers with D =
K1733.03	6
K1733.04	8
K1733.05	10
K1733.08	12
K1733.10	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

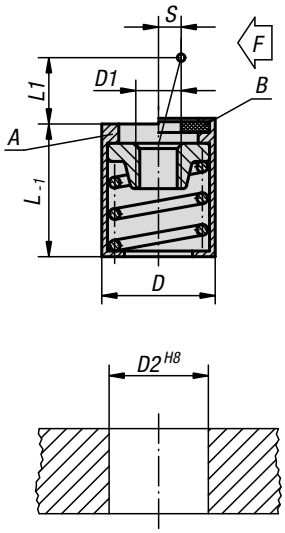
Advantages:
- Easy handling
- Grub screw clamping
- Minimal installation space
- Arbitrary mounting position
- Customised application
- Versatile use

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

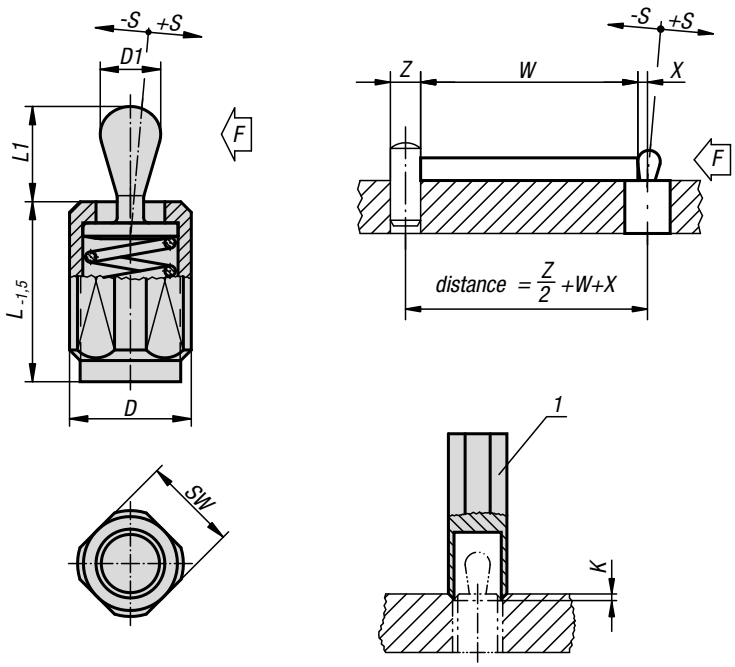
KIPP Lateral spring plungers without thrust pins, Form B, with seal

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

Notes

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.

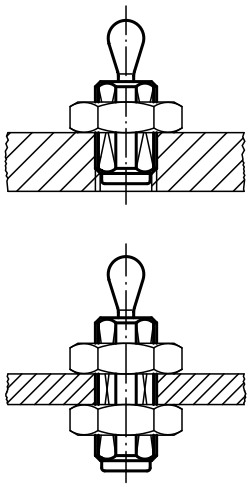
Drawing reference:
1) assembly tool

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

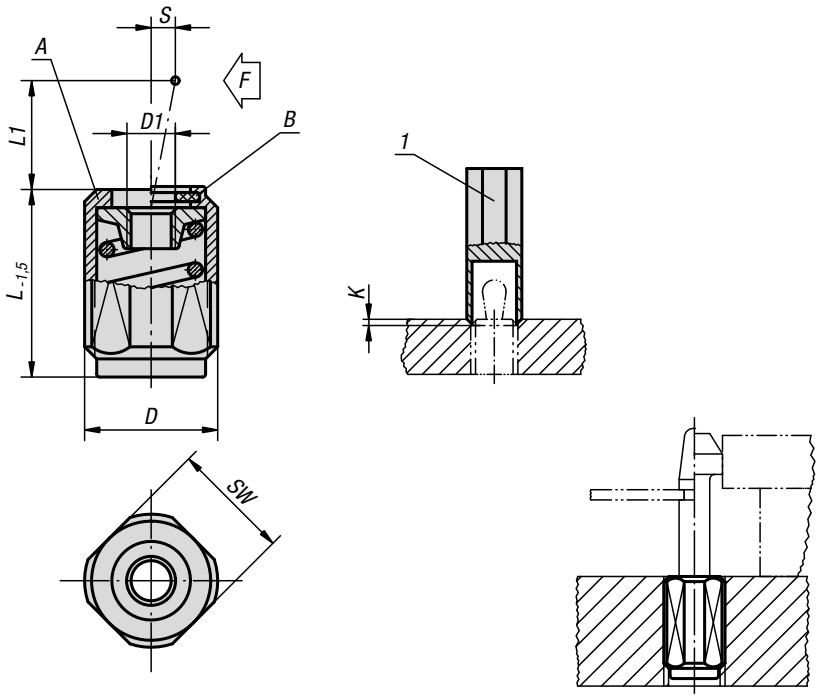


KIPP Lateral spring plungers with seal

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.

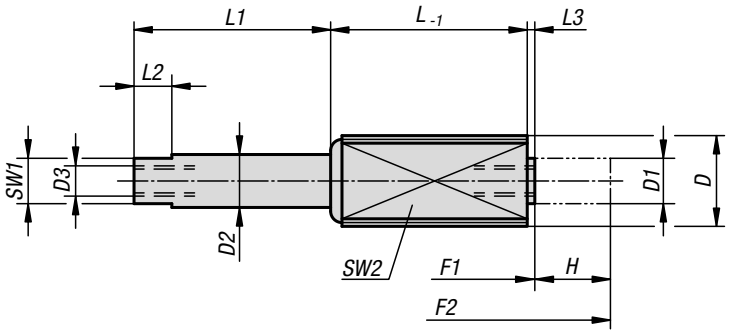
Drawing reference:
Form A: without seal
Form B: with seal

1) assembly tool

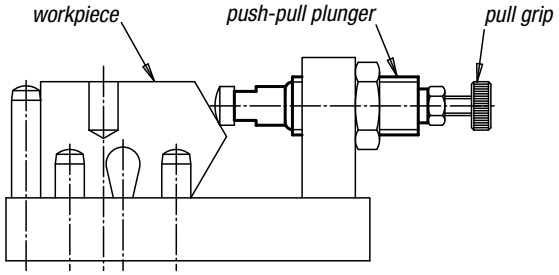
KIPP Lateral spring plungers with threaded sleeve, without thrust pin

Order No. Form A	Order No. Form 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

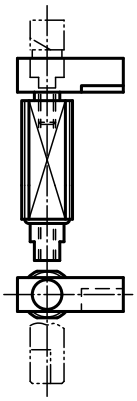
Spring plungers push-pull



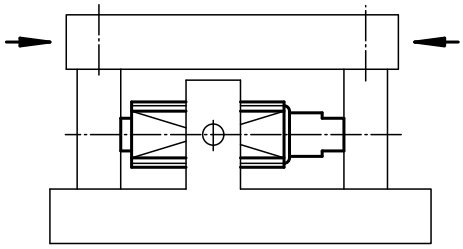
push-pull plunger



pull plunger as lock



push-pull plunger as carrier



Material:
Steel.

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

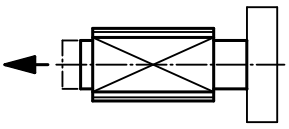
Sample order:
K0373.1202004

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.

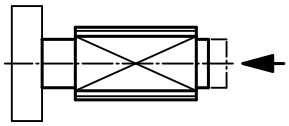
Assembly:
LOCTITE threadlocker K0655.243.... is recommended for gluing the threaded sleeve in position.

Application:

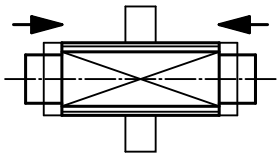
As **push plunger:**
The spring force pushes the object.



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.

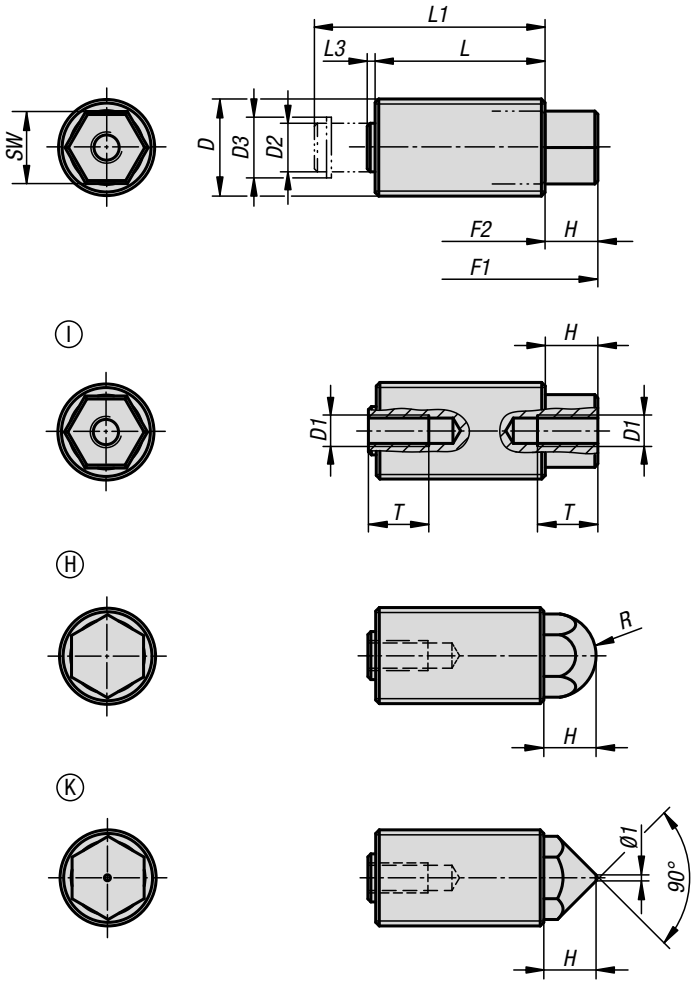


KIPP Push-Pull spring plungers

Order No.	D	D1	D2	D3	H	L	L1	L2	L3	SW1	SW2 square	Spring force 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.

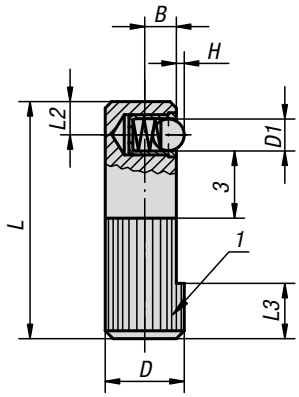
Sample order:
K0997.1112

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



Form A
stainless steel ball,
one side

Form B
POM ball,
one side

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

Version:
Body black oxidised.
Ball bright.

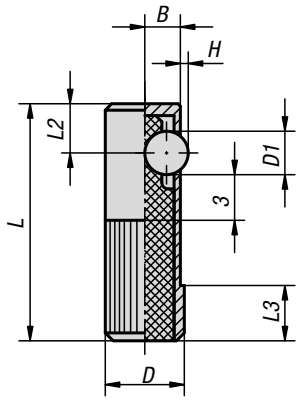
Sample order:
K0374.410

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.

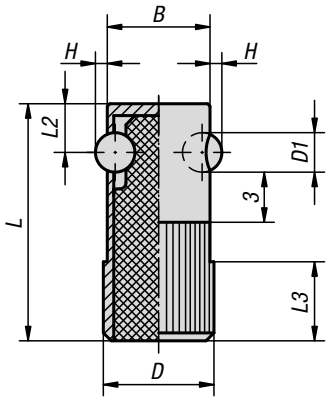
Spring force refers to a mean value.

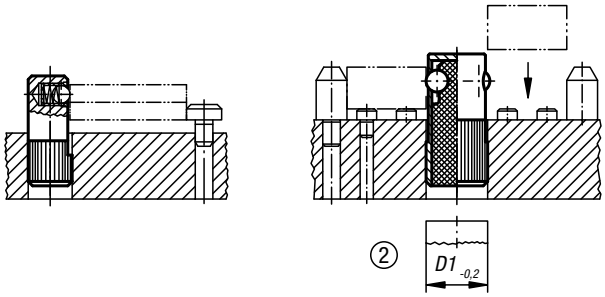
Drawing reference:
1) knurl
2) light holding

Form C
steel ball, one side
plastic spring



Form D
steel ball, both sides
plastic spring





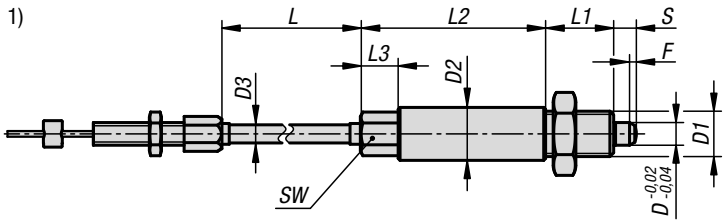
KIPP Lateral spring plungers

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

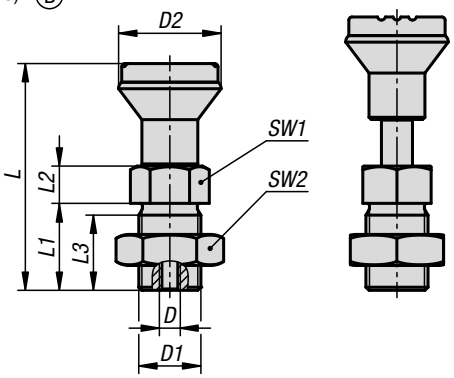
Indexing plunger, stainless steel

with remote actuation

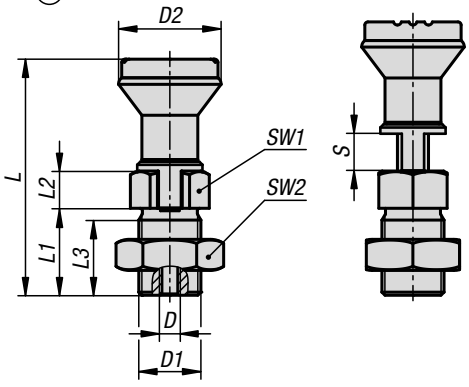
1)



5) Ⓑ



Ⓓ



Indexing plungers are used where any change in locking position due to lateral forces should be prevented.
Some examples of this are for length, height and position indexing 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. Form D should be used for applications where the indexing pin should remain disengaged for an extended period and be prevented from springing back.
As an alternative to the actuating element, the supplied screw nipple (Ø5 x 7 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 during installation.

Corrosion protection is achieved by selecting a suitable material and surface treatment. The wire cable or cable sheath can be easily replaced if required.

Material:
Indexing plunger:
Threaded sleeve stainless steel 1.4305.
Indexing pin stainless steel 1.4034.

Actuating element stainless steel 1.4305.
Mushroom grip thermoplastic.
Plastic cap thermoplastic.
Wire cable stainless steel 1.4401.
Traction sleeve steel wire with plastic sleeving inside and outside.
End sleeves, setscrews and screw nipples brass.

Version:
Indexing pin, hardened, ground and bright.
Bowden cable casing, black.
Mushroom grip, thermoplastic dark grey.

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 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.

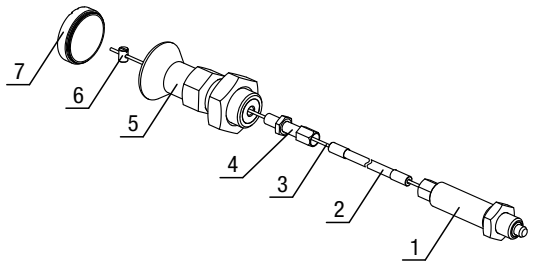
Supplied with:
Indexing plunger with remote actuation:
Indexing plunger with preassembled cable, casing, end sleeve, adjusting screw M6 x 34 mm and screw nipple Ø5 x 7 mm.

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

Form B: non-lockout type, with locknut
Form D: lockout type, with locknut



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

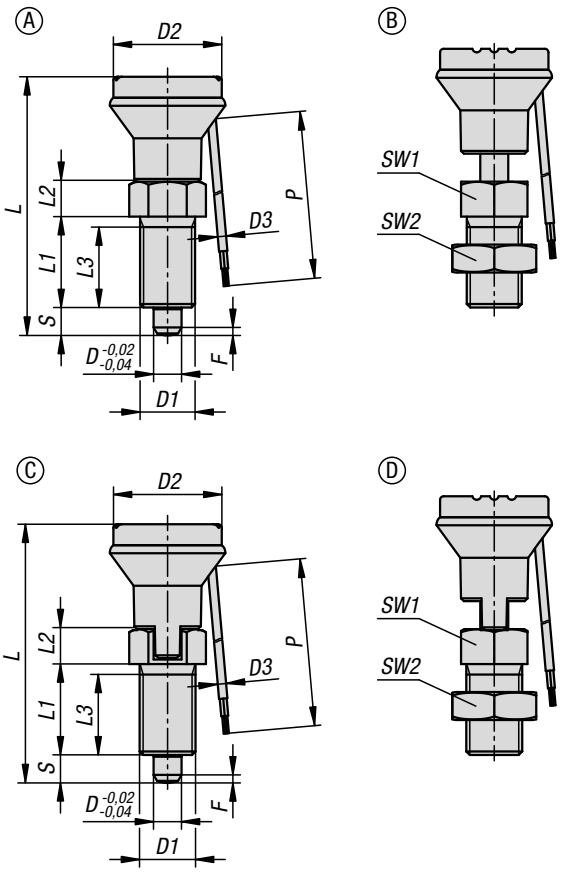
KIPP Actuating elements

Order No.	Form	Colour Cap	D Internal thread	D1	D2	L	L1	L2	L3	SW1	SW2
K1502.12420	B	black grey RAL 7021	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124201	B	orange RAL 2004	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124202	B	signal green RAL6032	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124203	B	blue RAL5017	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124205	B	light grey RAL 7035	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124206	B	traffic red RAL 3020	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124207	B	colza yellow RAL 1021	M6	M20x1,5	33	73	28	12	25	22	30

Order No. Travel S 6	Order No. Travel S 8	Order No. Travel S 10	Order No. Travel S 12	Form	Colour Cap	D Internal thread	D1	D2	L	L1	L2	L3	SW1	SW2
K1502.1442006	**K1502.1442008**	**K1502.1442010**	**K1502.1442012**	D	black grey RAL 7021	M6	M20x1,5	33	76	28	12	25	22	30
K1502.14420106	**K1502.14420108**	**K1502.14420110**	**K1502.14420112**	D	orange RAL 2004	M6	M20x1,5	33	76	28	12	25	22	30
K1502.14420206	**K1502.14420208**	**K1502.14420210**	**K1502.14420212**	D	signal green RAL6032	M6	M20x1,5	33	76	28	12	25	22	30
K1502.14420306	**K1502.14420308**	**K1502.14420310**	**K1502.14420312**	D	blue RAL5017	M6	M20x1,5	33	76	28	12	25	22	30
K1502.14420506	**K1502.14420508**	**K1502.14420510**	**K1502.14420512**	D	light grey RAL 7035	M6	M20x1,5	33	76	28	12	25	22	30
K1502.14420606	**K1502.14420608**	**K1502.14420610**	**K1502.14420612**	D	traffic red RAL 3020	M6	M20x1,5	33	76	28	12	25	22	30
K1502.14420706	**K1502.14420708**	**K1502.14420710**	**K1502.14420712**	D	colza yellow RAL 1021	M6	M20x1,5	33	76	28	12	25	22	30

Indexing plungers steel or stainless steel

with status sensor, hardwired



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.

With indexing plungers with status sensor, the actuation status can be detected and evaluated electronically.The connection, e.g. to a machine control system, is hard wired via the connection cable of the integrated sensor.

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.

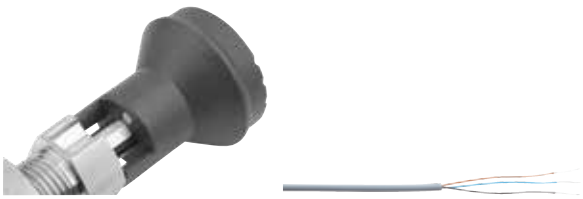
Version:
Steel version:
Threaded sleeve, black oxidised.
Indexing pin hardened, ground and black oxidised.

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

Sample order:
K1744.22061

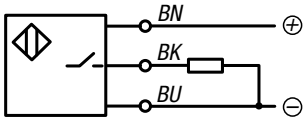
Note:
The status sensor switches when it engages after S - 1 mm travel.

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.



Indexing plungers steel or stainless steel

with status sensor, hardwired



Technical data:
Inductive sensor:
Output circuit: PNP NO
Operating voltage: 6 - 30 V DC
Operating current: <100 mA
Contact gap: 1 mm
Switch frequency: <4000 Hz
Short-circuit proof: yes
Reverse polarity protection: yes
Rating: IP 67
Connection type: 2 m PVC cable
Temperature range: -10 °C - +70 °C
Approvals: CE, c UL us, EAC

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

P = cable length

BN = brown
BK = black
BU = blue

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	D3	L	L1	L2	L3	Travel S	SW1	SW2	Fx30°	P	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1744.11051	K1744.21051	K1744.31051	K1744.41051	5	M10x1	25	2,4	51	17	7	15	5	13	-/17/-/17	1,3	2000	5	12
K1744.12061	K1744.22061	K1744.32061	K1744.42061	6	M12x1,5	25	2,4	56	20	8	17	6	14	-/19/-/19	1,8	2000	6	14
K1744.13081	K1744.23081	K1744.33081	K1744.43081	8	M16x1,5	33	2,4	74	26	10	23	8	19	-/24/-/24	2,3	2000	15	35
K1744.14101	K1744.24101	K1744.34101	K1744.44101	10	M20x1,5	33	2,4	80	28	12	25	10	22	-/30/-/30	2,8	2000	15	34
K1744.14121	K1744.24121	K1744.34121	K1744.44121	12	M20x1,5	33	2,4	84	28	14	25	12	22	-/30/-/30	2,8	2000	15	39

KIPP Indexing plungers, stainless steel, indexing pin hardened

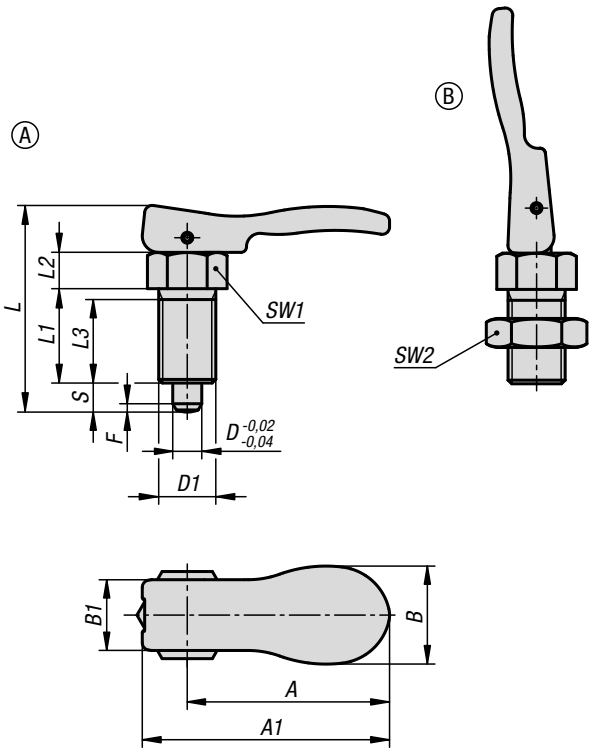
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	D3	L	L1	L2	L3	Travel S	SW1	SW2	Fx30°	P	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1744.011051	K1744.021051	K1744.031051	K1744.041051	5	M10x1	25	2,4	51	17	7	15	5	13	-/17/-/17	1,3	2000	5	12
K1744.012061	K1744.022061	K1744.032061	K1744.042061	6	M12x1,5	25	2,4	56	20	8	17	6	14	-/19/-/19	1,8	2000	6	14
K1744.013081	K1744.023081	K1744.033081	K1744.043081	8	M16x1,5	33	2,4	74	26	10	23	8	19	-/24/-/24	2,3	2000	15	35
K1744.014101	K1744.024101	K1744.034101	K1744.044101	10	M20x1,5	33	2,4	80	28	12	25	10	22	-/30/-/30	2,8	2000	15	34
K1744.014121	K1744.024121	K1744.034121	K1744.044121	12	M20x1,5	33	2,4	84	28	14	25	12	22	-/30/-/30	2,8	2000	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	D3	L	L1	L2	L3	Travel S	SW1	SW2	Fx30°	P	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1744.111051	K1744.121051	K1744.131051	K1744.141051	5	M10x1	25	2,4	51	17	7	15	5	13	-/17/-/17	1,3	2000	5	12
K1744.112061	K1744.122061	K1744.132061	K1744.142061	6	M12x1,5	25	2,4	56	20	8	17	6	14	-/19/-/19	1,8	2000	6	14
K1744.113081	K1744.123081	K1744.133081	K1744.143081	8	M16x1,5	33	2,4	74	26	10	23	8	19	-/24/-/24	2,3	2000	15	35
K1744.114101	K1744.124101	K1744.134101	K1744.144101	10	M20x1,5	33	2,4	80	28	12	25	10	22	-/30/-/30	2,8	2000	15	34
K1744.114121	K1744.124121	K1744.134121	K1744.144121	12	M20x1,5	33	2,4	84	28	14	25	12	22	-/30/-/30	2,8	2000	15	39

Indexing plunger with cam lever

steel or stainless steel



Material:
Steel version:
Threaded sleeve 1.0718.
Indexing pin 1.0718.

Stainless steel version:
Threaded sleeve 1.4305.
Indexing pin 1.4305.
Handle fibreglass reinforced thermoplastic PPA (high temperature resistant).

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

Stainless steel version:
Threaded sleeve, bright.
Indexing pin ground and left bright.

Grip black or traffic red RAL3020.

Sample order:
K1584.8105

Note:
Indexing plungers are used where it is necessary to prevent changes of position due to lateral forces. A new locking position can be set only after the plunger has been manually disengaged. With this indexing plunger a cam lever is used to retract the pin. The indexing plunger remains unlocked as long as the handle is positioned over the dead-centre of the cam.
The ergonomic cam lever enables light handling with low effort.

Temperature range:
Permanent operating temperature acc. to IEC 216 max. 160°C.
Short-term operating temperature max. 250°C.

Advantages:
Simple and quick operation.
Suitable for high temperature applications.
With integrated detent function.

On request:
Special versions.

Accessories:
Spacer rings K0665
Positioning bushes for indexing plunger K1290
Mounting brackets K0638

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

Indexing plunger with cam lever

steel or stainless steel

KIPP Indexing plunger with cam lever, steel

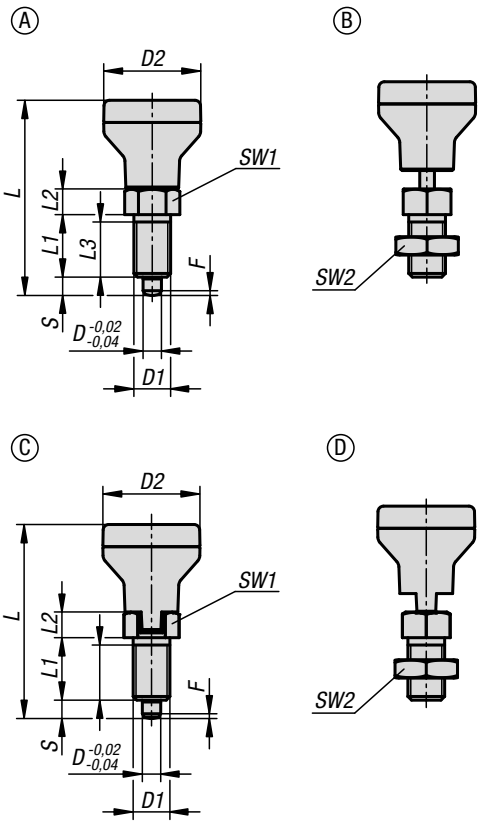
Order No. black	Order No. red	Form	A	A1	B	B1	D	D1	Travel S	L	L1	L2	L3	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1584.8105	**K1584.8105154**	A	31,7	41,7	17,8	12,9	5	M10x1	5	39	17	7	15	13	1,3	5	12
K1584.8206	**K1584.8206154**	A	31,6	41,7	17,8	12,9	6	M12x1,5	6	44	20	8	17	14	1,8	6	14
K1584.8308	**K1584.8308154**	A	55,5	67,8	26,9	19,4	8	M16x1,5	8	56,9	26	10	23	19	2,3	15	35
K1584.8410	**K1584.8410154**	A	53,4	67,8	26,9	19,4	10	M20x1,5	10	62,9	28	12	25	22	2,8	15	34
K1584.9105	**K1584.9105154**	B	31,7	41,7	17,8	12,9	5	M10x1	5	39	17	7	15	13	1,3	5	12
K1584.9206	**K1584.9206154**	B	31,6	41,7	17,8	12,9	6	M12x1,5	6	44	20	8	17	14	1,8	6	14
K1584.9308	**K1584.9308154**	B	55,5	67,8	26,9	19,4	8	M16x1,5	8	56,9	26	10	23	19	2,3	15	35
K1584.9410	**K1584.9410154**	B	53,4	67,8	26,9	19,4	10	M20x1,5	10	62,9	28	12	25	22	2,8	15	34

KIPP Indexing plunger with cam lever, stainless steel

Order No. black	Order No. red	Form	A	A1	B	B1	D	D1	Travel S	L	L1	L2	L3	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1584.18105	**K1584.18105154**	A	31,7	41,7	17,8	12,9	5	M10x1	5	39	17	7	15	13	-	1,3	5	12
K1584.18206	**K1584.18206154**	A	31,6	41,7	17,8	12,9	6	M12x1,5	6	44	20	8	17	14	-	1,8	6	14
K1584.18308	**K1584.18308154**	A	55,5	67,8	26,9	19,4	8	M16x1,5	8	56,9	26	10	23	19	-	2,3	15	35
K1584.18410	**K1584.18410154**	A	53,4	67,8	26,9	19,4	10	M20x1,5	10	62,9	28	12	25	22	-	2,8	15	34
K1584.19105	**K1584.19105154**	B	31,7	41,7	17,8	12,9	5	M10x1	5	39	17	7	15	13	17	1,3	5	12
K1584.19206	**K1584.19206154**	B	31,6	41,7	17,8	12,9	6	M12x1,5	6	44	20	8	17	14	19	1,8	6	14
K1584.19308	**K1584.19308154**	B	55,5	67,8	26,9	19,4	8	M16x1,5	8	56,9	26	10	23	19	24	2,3	15	35
K1584.19410	**K1584.19410154**	B	53,4	67,8	26,9	19,4	10	M20x1,5	10	62,9	28	12	25	22	30	2,8	15	34

Indexing plunger

with status sensor



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

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

Indexing plunger

with status sensor

Advantages:
Wireless transfer of actuation status.
Laborious cable connections no longer necessary.
Intelligent battery management allows long running time
No interfering edges.

Accessories:
K1494 Gateway

Technical data:
See technical information.

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

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	SW1	SW2	Fx30°	Travel S	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	57	17	7	15	13	-/17/-/17	1,3	5	5	12
K1495.1206	K1495.2206	K1495.3206	K1495.4206	6	M12x1,5	35	62	20	8	17	14	-/19/-/19	1,8	6	6	14
K1495.1308	K1495.2308	K1495.3308	K1495.4308	8	M16x1,5	35	76	26	10	23	19	-/24/-/24	2,3	8	15	35
K1495.1410	K1495.2410	K1495.3410	K1495.4410	10	M20x1,5	35	82	28	12	25	22	-/30/-/30	2,8	10	15	34
K1495.1412	K1495.2412	K1495.3412	K1495.4412	12	M20x1,5	35	86	28	14	25	22	-/30/-/30	2,8	12	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	L	L1	L2	L3	SW1	SW2	Fx30°	Travel S	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	57	17	7	15	13	-/17/-/17	1,3	5	5	12
K1495.01206	K1495.02206	K1495.03206	K1495.04206	6	M12x1,5	35	62	20	8	17	14	-/19/-/19	1,8	6	6	14
K1495.01308	K1495.02308	K1495.03308	K1495.04308	8	M16x1,5	35	76	26	10	23	19	-/24/-/24	2,3	8	15	35
K1495.01410	K1495.02410	K1495.03410	K1495.04410	10	M20x1,5	35	82	28	12	25	22	-/30/-/30	2,8	10	15	34
K1495.01412	K1495.02412	K1495.03412	K1495.04412	12	M20x1,5	35	86	28	14	25	22	-/30/-/30	2,8	12	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	L	L1	L2	L3	SW1	SW2	Fx30°	Travel S	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	57	17	7	15	13	-/17/-/17	1,3	5	5	12
K1495.11206	K1495.12206	K1495.13206	K1495.14206	6	M12x1,5	35	62	20	8	17	14	-/19/-/19	1,8	6	6	14
K1495.11308	K1495.12308	K1495.13308	K1495.14308	8	M16x1,5	35	76	26	10	23	19	-/24/-/24	2,3	8	15	35
K1495.11410	K1495.12410	K1495.13410	K1495.14410	10	M20x1,5	35	82	28	12	25	22	-/30/-/30	2,8	10	15	34
K1495.11412	K1495.12412	K1495.13412	K1495.14412	12	M20x1,5	35	86	28	14	25	22	-/30/-/30	2,8	12	15	39

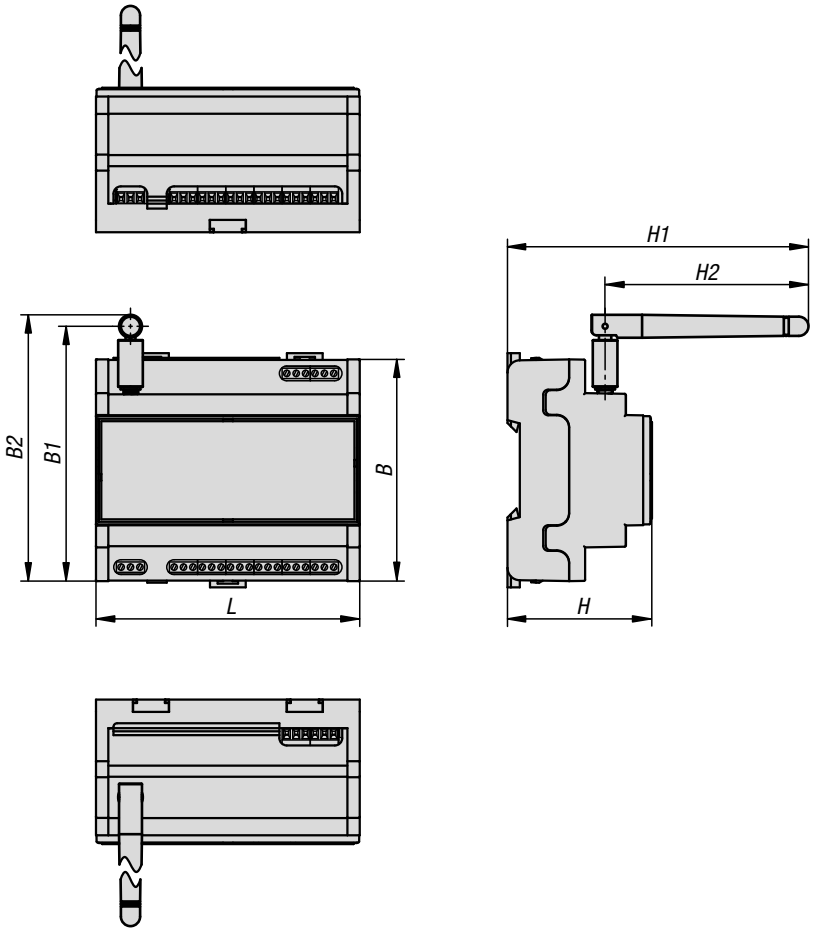
Technical note on indexing plungers with status sensor K1495

Technical data:

Power supply		
Battery		VARTA CR2032 3V
Battery life		About 1 year
Battery replacement		through removable cover
Wireless transfer		
Transfer protocol		Bluetooth Low Energy
Transmission frequency	[GHz]	2.4
Range	[m]	about 10
Transfer rate	[1/s]	10
Displays / control elements		
LED blue		Flashing quickly: pairing mode active Flashing slowly: battery needs to be replaced
Environmental conditions		
Application location		For use indoors
Altitude		up to 2000m
Operating temperature	[°C]	0 to 65
Storage temperature	[°C]	-10 to 65
Maximum relative humidity	[%]	80 (without condensation)
Safety rating		IP64 as defined in DIN EN 60529
Approvals / inspections		
Radio licences		Europe, USA, Canada
Electrical safety		EN 61010-1 / EN 61010-2-201
EMV		EN 301 489-1 / EN 301 489-17
Wireless		EN 300 328
Vibration resistance		EN 60068-2-6
Shock resistance		EN 60068-2-27

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

Technical data:
See technical information.

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

Technical note
on the gateway for indexing plunger with status sensor K1494

Technical data:

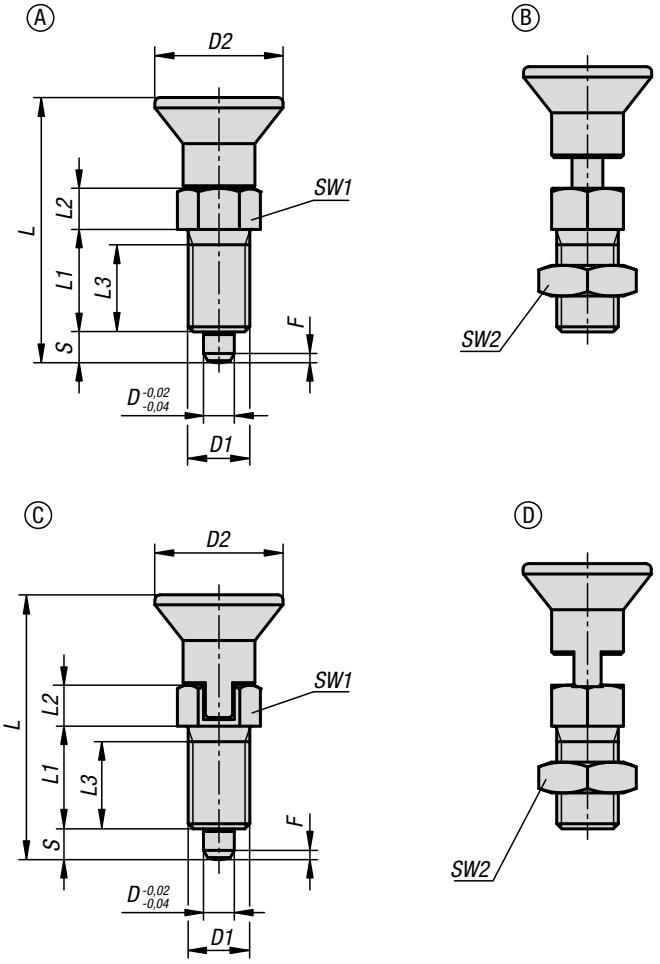
Power supply		
Operating voltage	[V]	24 V DC
Nominal current	[A]	0.3 (max. 0.32 / min. 0.27)
Power consumption	[W]	7.2
Overvoltage category		I
Interfaces		
Signal inputs		7x by wireless transfer No. 1 to 6: for signal monitoring UI: for monitoring by a mobile terminal
Signal outputs		8x potential free changer contacts 2A 24V DC / 2A 250V AC K1-K6: Signal request actuation status K7:Radio link status K8: Battery level status
Antenna connection		R-SMA socket (for supplied antenne)
Connection terminals		Screw terminals 0.2 mm^2 to 1.31 mm^2
Connected loads		24 - 16 AWG / 0.205 mm^2 to 1.31 mm^2
Insulation stripping length	[mm]	5 to 6
Overvoltage category		II
Intended load		AC and DC circuit, general loading
Wireless transfer		
Transfer protocol		Bluetooth Low Energy
Transmission frequency	[GHz]	2.4
Range	[m]	about 10
Transfer rate	[1/s]	10
Displays / control elements		
LED green (Power)		Lit when the device is operating.
LED green (wireless reception)		Lit when the linked device is within range.
LED yellow (actuation status)		Indicates the actuation status of the linked device.
LED red (battery status)		Lit when the battery needs to be replaced.
Switch		Allows a device to be connected or disconnected to/from the desired signal input on the gateway.
Assembly		
Fixation		on carrier rail as defined in IEC 60715
Environmental conditions		
Application location		For use indoors
Altitude		up to 2000m
Operating temperature	[°C]	0 to 65
Storage temperature	[°C]	-10 to 65
Maximum relative humidity	[%]	80 (without condensation)
Safety rating		IP20 acc. to DIN EN 60529
Impact resistance		IK06 acc. to DIN EN 62262
Degree of contamination		2

Technical note
on the gateway for indexing plunger with status sensor K1494

Technical data:

Approvals / inspections		
Radio licences		Europe, USA, Canada
Electrical safety		EN 61010-1 / EN 61010-2-201
EMV		EN 301 489-1 / EN 301 489-17
Wireless		EN 300 328
Vibration resistance		EN 60068-2-6
Shock resistance		EN 60068-2-27
Note		
Interference suppression		Interference suppression is the responsibility of the user when inductive loads are switched on the outputs.
Radio licence		The radio licence for the Gateway is valid only when the supplied antenna is used.
Mechanical data		
Weight	[kg]	0.3

Indexing plungers steel or stainless steel



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

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 indexing in machines, equipment, furniture and special vehicle construction.

A new indexed position can be only be moved to after the pin has been manually retracted. Form C and D are recommended for applications where the indexing pin should remain disengaged for an extended period and be prevented from springing back.

The materials used enable diverse applications including those with the highest demands on corrosion resistance

Material:
Steel version:
Threaded sleeve and indexing pin free-cutting steel.
Spring 1.4310.

Stainless steel version A2:
Threaded sleeve 1.4305.
Hardened indexing pin 1.4034.
Not hardened indexing pin 1.4305.
Spring 1.4310.

Stainless steel version A4:
Threaded sleeve and indexing pin 1.4404.
Spring 1.4401 or 1.4571.

Mushroom grip thermoplastic, dark grey or traffic red RAL3020.

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

Stainless steel A2 version:
threaded sleeve bright.
Indexing pin hardened or not hardened, ground and bright.

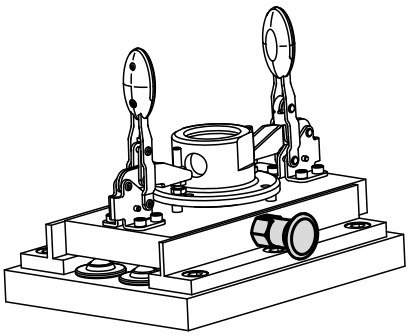
Stainless steel A4 version:
threaded sleeve bright.
Indexing pin ground, chemically nickel-plated or bright.

Sample order:
K0338.04206

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers steel or stainless steel



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	Component colour	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
K0338.1903	**K0338.2903**	**K0338.3903**	**K0338.4903**	black grey RAL 7021	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**	black grey RAL 7021	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.1105	**K0338.2105**	**K0338.3105**	**K0338.4105**	black grey RAL 7021	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.1206	**K0338.2206**	**K0338.3206**	**K0338.4206**	black grey RAL 7021	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**	black grey RAL 7021	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.1410	**K0338.2410**	**K0338.3410**	**K0338.4410**	black grey RAL 7021	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.1412	**K0338.2412**	**K0338.3412**	**K0338.4412**	black grey RAL 7021	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.1516	**K0338.2516**	**K0338.3516**	**K0338.4516**	black grey RAL 7021	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46
K0338.190384	**K0338.290384**	**K0338.390384**	**K0338.490384**	traffic red RAL 3020	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**	traffic red RAL 3020	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.110584	**K0338.210584**	**K0338.310584**	**K0338.410584**	traffic red RAL 3020	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.120684	**K0338.220684**	**K0338.320684**	**K0338.420684**	traffic red RAL 3020	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**	traffic red RAL 3020	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.141084	**K0338.241084**	**K0338.341084**	**K0338.441084**	traffic red RAL 3020	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.141284	**K0338.241284**	**K0338.341284**	**K0338.441284**	traffic red RAL 3020	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.151684	**K0338.251684**	**K0338.351684**	**K0338.451684**	traffic red RAL 3020	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

Indexing plungers steel or stainless steel

KIPP Indexing plungers, stainless steel A2, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	Component colour	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
K0338.01903	**K0338.02903**	**K0338.03903**	**K0338.04903**	black grey RAL 7021	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**	black grey RAL 7021	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.01105	**K0338.02105**	**K0338.03105**	**K0338.04105**	black grey RAL 7021	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.01206	**K0338.02206**	**K0338.03206**	**K0338.04206**	black grey RAL 7021	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**	black grey RAL 7021	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.01410	**K0338.02410**	**K0338.03410**	**K0338.04410**	black grey RAL 7021	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.01412	**K0338.02412**	**K0338.03412**	**K0338.04412**	black grey RAL 7021	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.01516	**K0338.02516**	**K0338.03516**	**K0338.04516**	black grey RAL 7021	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46
K0338.0190384	**K0338.0290384**	**K0338.0390384**	**K0338.0490384**	traffic red RAL 3020	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**	traffic red RAL 3020	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.0110584	**K0338.0210584**	**K0338.0310584**	**K0338.0410584**	traffic red RAL 3020	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.0120684	**K0338.0220684**	**K0338.0320684**	**K0338.0420684**	traffic red RAL 3020	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**	traffic red RAL 3020	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.0141084	**K0338.0241084**	**K0338.0341084**	**K0338.0441084**	traffic red RAL 3020	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.0141284	**K0338.0241284**	**K0338.0341284**	**K0338.0441284**	traffic red RAL 3020	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.0151684	**K0338.0251684**	**K0338.0351684**	**K0338.0451684**	traffic red RAL 3020	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel A2, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	Component colour	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
K0338.11903	**K0338.12903**	**K0338.13903**	**K0338.14903**	black grey RAL 7021	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**	black grey RAL 7021	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.11105	**K0338.12105**	**K0338.13105**	**K0338.14105**	black grey RAL 7021	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.11206	**K0338.12206**	**K0338.13206**	**K0338.14206**	black grey RAL 7021	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**	black grey RAL 7021	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.11410	**K0338.12410**	**K0338.13410**	**K0338.14410**	black grey RAL 7021	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.11412	**K0338.12412**	**K0338.13412**	**K0338.14412**	black grey RAL 7021	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.11516	**K0338.12516**	**K0338.13516**	**K0338.14516**	black grey RAL 7021	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46
K0338.1190384	**K0338.1290384**	**K0338.1390384**	**K0338.1490384**	traffic red RAL 3020	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**	traffic red RAL 3020	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.1110584	**K0338.1210584**	**K0338.1310584**	**K0338.1410584**	traffic red RAL 3020	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.1120684	**K0338.1220684**	**K0338.1320684**	**K0338.1420684**	traffic red RAL 3020	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**	traffic red RAL 3020	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.1141084	**K0338.1241084**	**K0338.1341084**	**K0338.1441084**	traffic red RAL 3020	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.1141284	**K0338.1241284**	**K0338.1341284**	**K0338.1441284**	traffic red RAL 3020	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.1151684	**K0338.1251684**	**K0338.1351684**	**K0338.1451684**	traffic red RAL 3020	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

Indexing plungers steel or stainless steel

KIPP Indexing plungers, stainless steel A4, indexing pin hardened, nickel-plated

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	Component colour	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
K0338.61903	**K0338.62903**	**K0338.63903**	**K0338.64903**	black grey RAL 7021	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	3	6,5
K0338.61004	**K0338.62004**	**K0338.63004**	**K0338.64004**	black grey RAL 7021	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	7	15,5
K0338.61105	**K0338.62105**	**K0338.63105**	**K0338.64105**	black grey RAL 7021	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	4	12,5
K0338.61206	**K0338.62206**	**K0338.63206**	**K0338.64206**	black grey RAL 7021	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	7	14,5
K0338.61308	**K0338.62308**	**K0338.63308**	**K0338.64308**	black grey RAL 7021	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.61410	**K0338.62410**	**K0338.63410**	**K0338.64410**	black grey RAL 7021	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	30
K0338.61412	**K0338.62412**	**K0338.63412**	**K0338.64412**	black grey RAL 7021	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.61516	**K0338.62516**	**K0338.63516**	**K0338.64516**	black grey RAL 7021	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	40
K0338.6190384	**K0338.6290384**	**K0338.6390384**	**K0338.6490384**	traffic red RAL 3020	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	3	6,5
K0338.6100484	**K0338.6200484**	**K0338.6300484**	**K0338.6400484**	traffic red RAL 3020	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	7	15,5
K0338.6110584	**K0338.6210584**	**K0338.6310584**	**K0338.6410584**	traffic red RAL 3020	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	4	12,5
K0338.6120684	**K0338.6220684**	**K0338.6320684**	**K0338.6420684**	traffic red RAL 3020	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	7	14,5
K0338.6130884	**K0338.6230884**	**K0338.6330884**	**K0338.6430884**	traffic red RAL 3020	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.6141084	**K0338.6241084**	**K0338.6341084**	**K0338.6441084**	traffic red RAL 3020	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	30
K0338.6141284	**K0338.6241284**	**K0338.6341284**	**K0338.6441284**	traffic red RAL 3020	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.6151684	**K0338.6251684**	**K0338.6351684**	**K0338.6451684**	traffic red RAL 3020	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	40

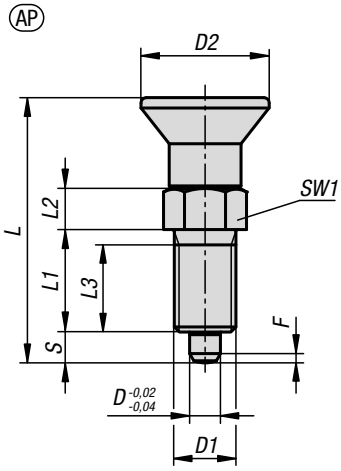
KIPP Indexing plungers, stainless steel A4, indexing pin hardened, bright

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	Component colour	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
K0338.71903	**K0338.72903**	**K0338.73903**	**K0338.74903**	black grey RAL 7021	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	3	6,5
K0338.71004	**K0338.72004**	**K0338.73004**	**K0338.74004**	black grey RAL 7021	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	7	15,5
K0338.71105	**K0338.72105**	**K0338.73105**	**K0338.74105**	black grey RAL 7021	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	4	12,5
K0338.71206	**K0338.72206**	**K0338.73206**	**K0338.74206**	black grey RAL 7021	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	7	14,5
K0338.71308	**K0338.72308**	**K0338.73308**	**K0338.74308**	black grey RAL 7021	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.71410	**K0338.72410**	**K0338.73410**	**K0338.74410**	black grey RAL 7021	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	30
K0338.71412	**K0338.72412**	**K0338.73412**	**K0338.74412**	black grey RAL 7021	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.71516	**K0338.72516**	**K0338.73516**	**K0338.74516**	black grey RAL 7021	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	40
K0338.7190384	**K0338.7290384**	**K0338.7390384**	**K0338.7490384**	traffic red RAL 3020	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	3	6,5
K0338.7100484	**K0338.7200484**	**K0338.7300484**	**K0338.7400484**	traffic red RAL 3020	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	7	15,5
K0338.7110584	**K0338.7210584**	**K0338.7310584**	**K0338.7410584**	traffic red RAL 3020	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	4	12,5
K0338.7120684	**K0338.7220684**	**K0338.7320684**	**K0338.7420684**	traffic red RAL 3020	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	7	14,5
K0338.7130884	**K0338.7230884**	**K0338.7330884**	**K0338.7430884**	traffic red RAL 3020	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.7141084	**K0338.7241084**	**K0338.7341084**	**K0338.7441084**	traffic red RAL 3020	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	30
K0338.7141284	**K0338.7241284**	**K0338.7341284**	**K0338.7441284**	traffic red RAL 3020	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.7151684	**K0338.7251684**	**K0338.7351684**	**K0338.7451684**	traffic red RAL 3020	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	40

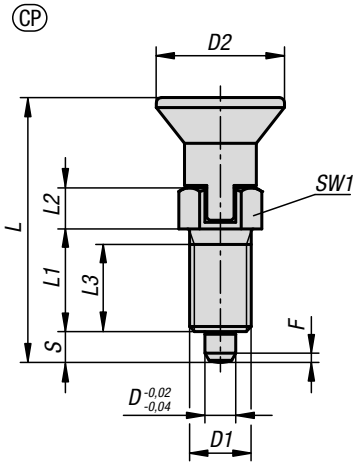
Indexing plungers

with thread lock

AP



CP



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 thread lock enables the plunger to be screwed in to the exact depth required, no spacer ring is required. The thread lock is a gripping polyamide coating that is applied punctiform (spot).

On request:
Special versions.

Drawing reference:
Form AP: non-lockout type, without locknut
Form CP: lockout type, without locknut

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	Travel S	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

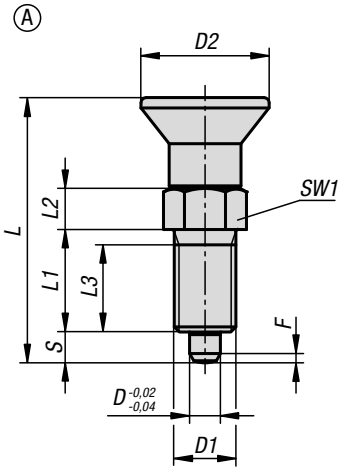
KIPP Indexing plungers, with thread lock, stainless steel, indexing pin hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	Travel S	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

Ⓐ



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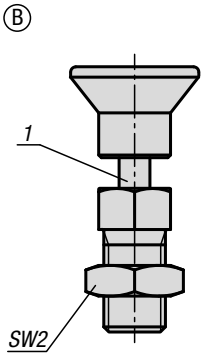


Material:
Indexing pin steel.
Threaded sleeve.
Mushroom grip, dark grey thermoplastic.
Lock mark aluminium.

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

Sample order:
K1149.71105

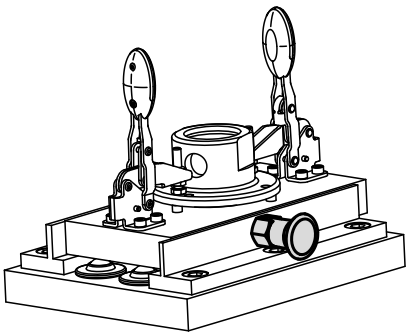
Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the plunger has been manually disengaged.
When the lock mark is visible the plunger is either completely disengaged or only partly in the index position.

On request:
Special versions.

Accessories:
Spacer rings K0665

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

1) marking ring

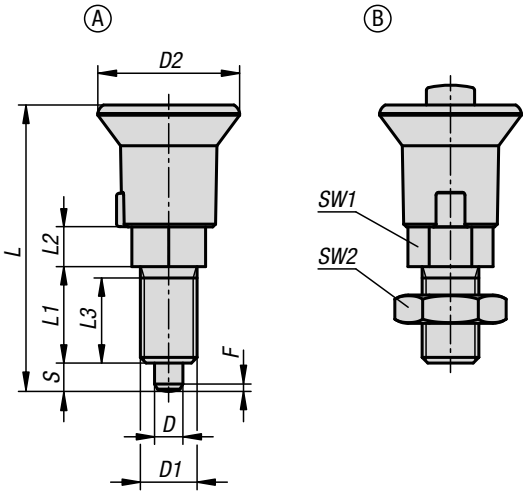


KIPP Indexing plungers with locked mark

Order No. Form A	Order No. Form B	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
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

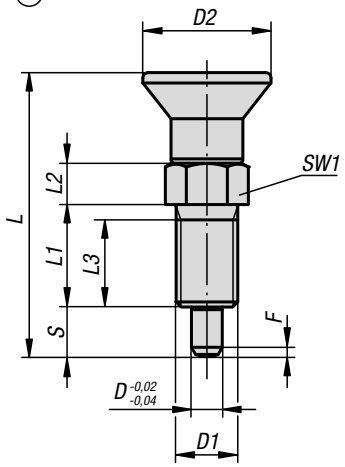
KIPP Indexing plunger with locking mechanism

Order No. Form A	Order No. Form B	Main material	Surface finish body	D	D1	D2	L	L1	L2	L3	Travel S	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

Ⓐ



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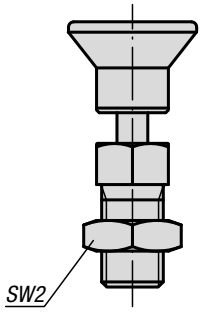

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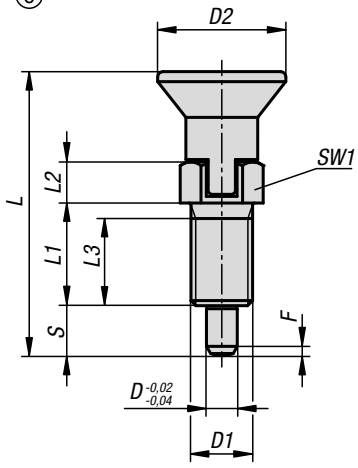

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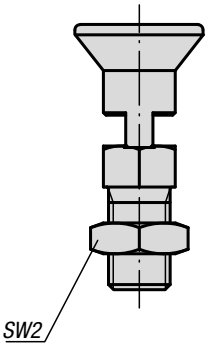
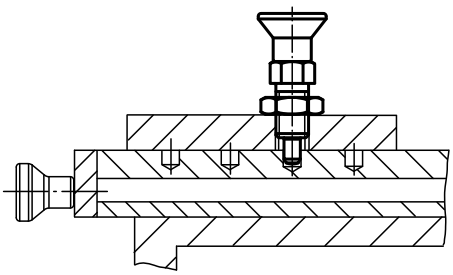




Material:
Steel version
Indexing pin hardened:
grade 5.8.

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

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 with extended indexing pins, steel, indexing pins hardened

Order No. Form A	Order No. Form B	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
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	Travel S	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	Travel S	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	Travel S	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

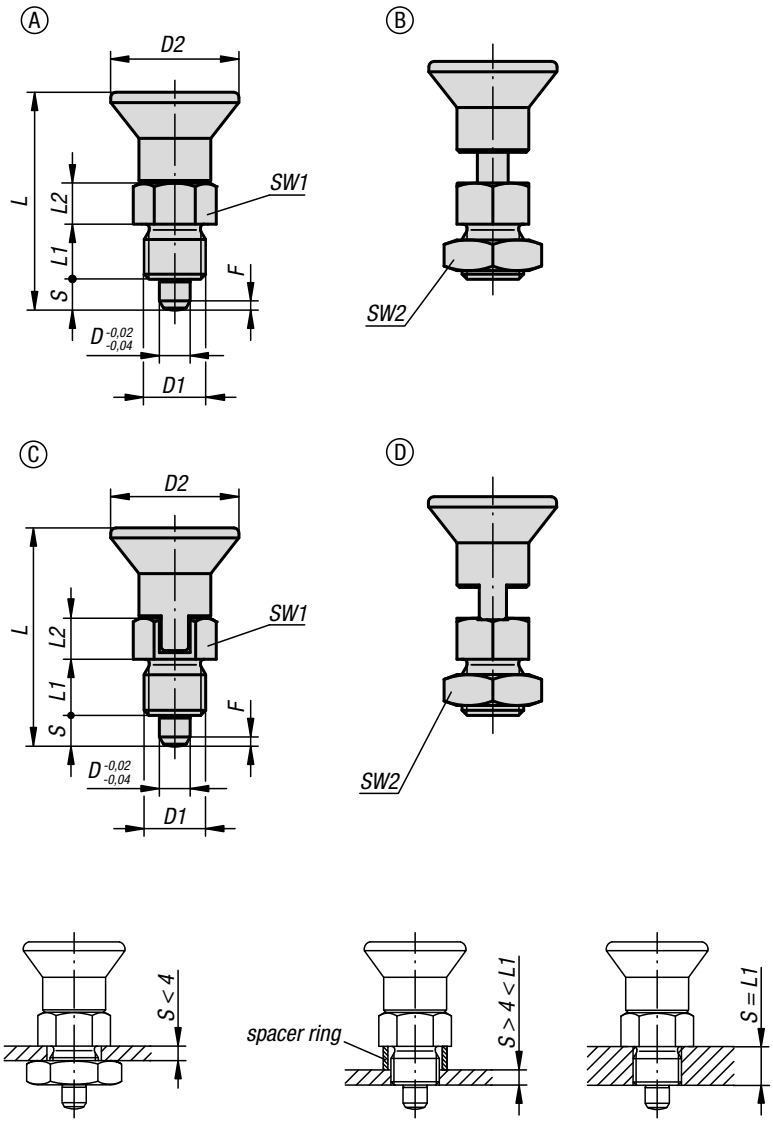
KIPP Indexing plungers with extended indexing pins, stainless steel, indexing pins not hardened

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	Travel S	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	Travel S	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



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

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

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

Indexing plungers

short version

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	Component colour	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	black grey RAL 7021	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	black grey RAL 7021	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.5105	K0631.6105	K0631.7105	K0631.8105	black grey RAL 7021	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.5206	K0631.6206	K0631.7206	K0631.8206	black grey RAL 7021	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.5308	K0631.6308	K0631.7308	K0631.8308	black grey RAL 7021	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.5410	K0631.6410	K0631.7410	K0631.8410	black grey RAL 7021	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32
K0631.590384	K0631.690384	K0631.790384	K0631.890384	red RAL 3020	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	red RAL 3020	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.510584	K0631.610584	K0631.710584	K0631.810584	red RAL 3020	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.520684	K0631.620684	K0631.720684	K0631.820684	red RAL 3020	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.530884	K0631.630884	K0631.730884	K0631.830884	red RAL 3020	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.541084	K0631.641084	K0631.741084	K0631.841084	red RAL 3020	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32

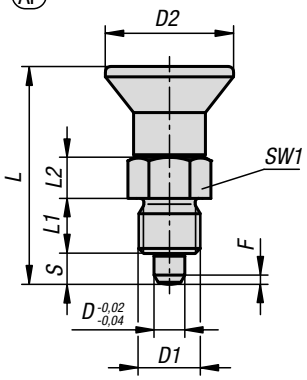
KIPP Indexing plungers, short version, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	Component colour	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	black grey RAL 7021	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	black grey RAL 7021	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.15105	K0631.16105	K0631.17105	K0631.18105	black grey RAL 7021	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.15206	K0631.16206	K0631.17206	K0631.18206	black grey RAL 7021	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.15308	K0631.16308	K0631.17308	K0631.18308	black grey RAL 7021	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.15410	K0631.16410	K0631.17410	K0631.18410	black grey RAL 7021	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32
K0631.1590384	K0631.1690384	K0631.1790384	K0631.1890384	red RAL 3020	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	red RAL 3020	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.1510584	K0631.1610584	K0631.1710584	K0631.1810584	red RAL 3020	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.1520684	K0631.1620684	K0631.1720684	K0631.1820684	red RAL 3020	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.1530884	K0631.1630884	K0631.1730884	K0631.1830884	red RAL 3020	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.1541084	K0631.1641084	K0631.1741084	K0631.1841084	red RAL 3020	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32

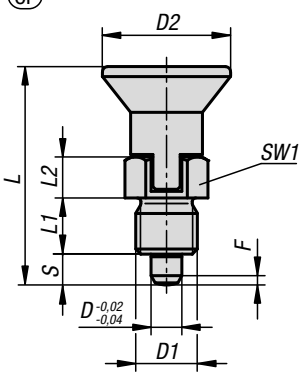
Indexing plungers

short version, with thread lock

AP



CP



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 thread lock enables the plunger to be screwed in to the exact depth required, no spacer ring is required. The thread lock is a gripping polyamide coating that is applied punctiform (spot).

On request:
Special versions.

Accessories:
Spacer rings K0665

Drawing reference:
Form AP: non-lockout type, without locknut
Form CP: lockout type, without locknut

Indexing plungers

short version, with thread lock

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

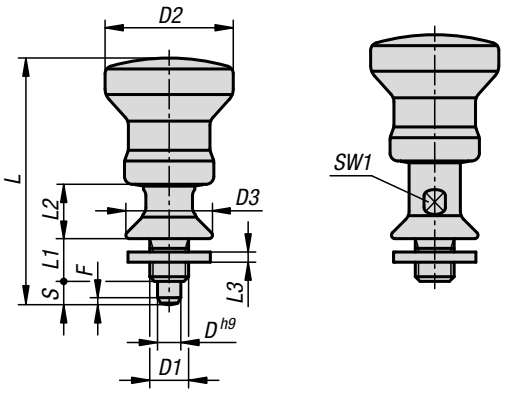
Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	Travel S	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1097.95903	**K1097.97903**	3	M6x0,75	14	25,5	6	5	3,5	8	0,8	4	10
K1097.95004	**K1097.97004**	4	M8x1	18	29,5	6	6	4	10	1	4	12
K1097.95105	**K1097.97105**	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

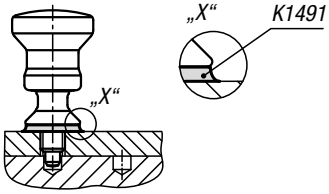
KIPP Indexing plungers, short version, with thread lock, stainless steel, indexing pin not hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	Travel S	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	5	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 with collar

for Hygienic USIT® seal and shim washers





Indexing plungers are used where it is necessary to prevent changes of position due to lateral forces. A new locking position can be set only after the plunger has been manually retracted. Form C (with lockout slot) is recommended for applications where the indexing pin should remain disengaged for an extended period and be prevented from springing back.

This indexing plunger is suitable for the foodstuff sectors. It has a conical collar so that the fastening point can be hygienically sealed using the Hygienic USIT® sealing and shim washer. The surface finish is Ra < 0.8 µm, which prevents dirt particles from adhering and ensures easy cleaning.

Material:
Steel parts stainless steel 1.4404.
Seal 70 EPDM 291 (black) or 75 Fluoroprene® XP (blue).

Version:
Indexing pin hardened or not hardened, bright.

Sample order:
K1698.1120801

Temperature range:
70 EPDM 291: -40°C to 150°C. 75 Fluoroprene® XP: -15°C to 200°C.

Advantages:
Hygienic conform design
Stainless steel 1.4404
Suitable for CIP/SIP cleaning
Resistant to polar and nonpolar media as well as aromatic substances

Supplied with:
Indexing plungers including Hygienic USIT® sealing and shim washers.

Accessories:
Hygienic USIT® seal and shim washers K1491.

Indexing plungers with collar

for Hygienic USIT® seal and shim washers

KIPP Indexing plungers with collar, indexing pin hardened

Order No. Form A without locking slot	Order No. Form C with locking slot	Component colour	D	D1	D2	D3	L	L1	L2	L3	Travel S	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1698.0110601	**K1698.0310601**	black	6	M10	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.0110611	**K1698.0310611**	black	6	M10x1	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.0120801	**K1698.0320801**	black	8	M12	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.0120811	**K1698.0320811**	black	8	M12x1,5	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.0110602	**K1698.0310602**	blue	6	M10	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.0110612	**K1698.0310612**	blue	6	M10x1	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.0120802	**K1698.0320802**	blue	8	M12	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.0120812	**K1698.0320812**	blue	8	M12x1,5	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62

KIPP Indexing plungers with collar, indexing pin not hardened

Order No. Form A without locking slot	Order No. Form C with locking slot	Component colour	D	D1	D2	D3	L	L1	L2	L3	Travel S	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1698.1110601	**K1698.1310601**	black	6	M10	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.1110611	**K1698.1310611**	black	6	M10x1	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.1120801	**K1698.1320801**	black	8	M12	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.1120811	**K1698.1320811**	black	8	M12x1,5	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.1110602	**K1698.1310602**	blue	6	M10	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.1110612	**K1698.1310612**	blue	6	M10x1	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.1120802	**K1698.1320802**	blue	8	M12	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.1120812	**K1698.1320812**	blue	8	M12x1,5	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62

Indexing plungers stainless steel

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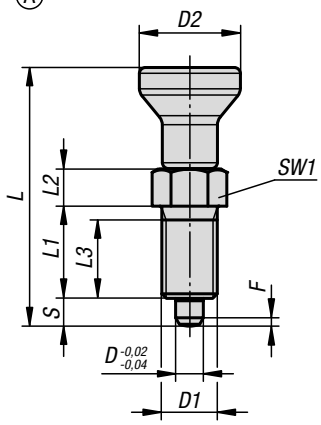

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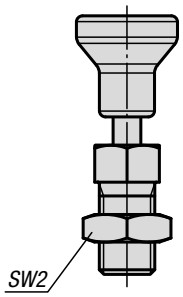

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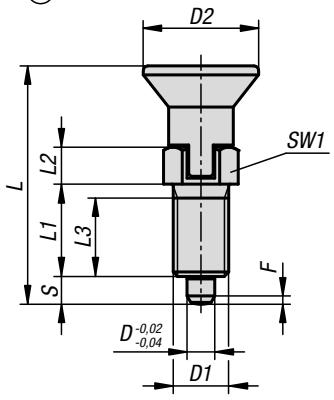

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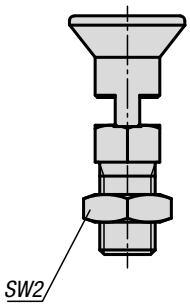

Indexing plungers are used where it is necessary to prevent changes of position due to lateral forces. Some examples of this are for length, height and position indexing in machines, equipment, furniture and special vehicle construction.

A new indexed position can be only be moved to after the pin has been manually retracted. Form C and D are recommended for applications where the indexing pin should remain disengaged for an extended period and be prevented from springing back.

The materials used enable diverse applications including those with the highest demands on corrosion resistance

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 grip 1.4305, fine turned.

Version:
Bright.
Indexing pin ground.

Sample order:
K0632.001004

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers stainless steel

KIPP Indexing plungers, stainless steel A2, 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 A2, 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

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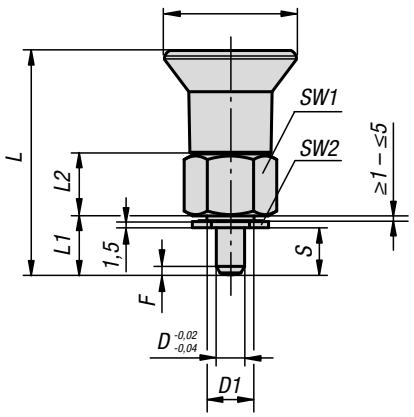

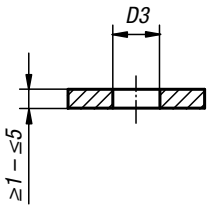

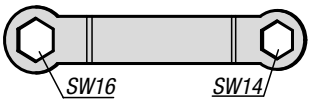

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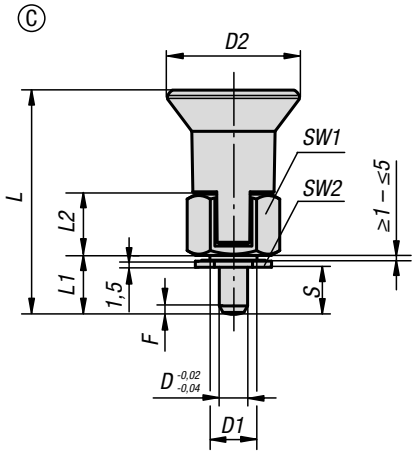

Material:
Steel version
Indexing pin hardened:
grade 5.8

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.

Drawing reference:
Form A: non-lockout type
Form C: lockout type

Indexing plungers

for thin-walled parts

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

Order No.	Form	D	D1	D2	D3	L	L1	L2	Travel S	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	Travel S	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

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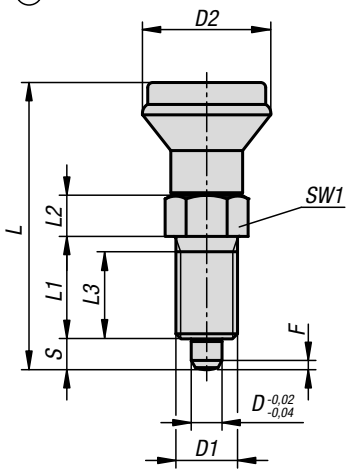

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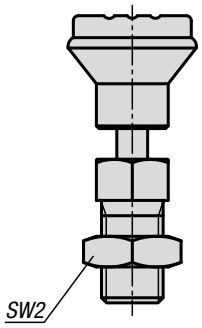

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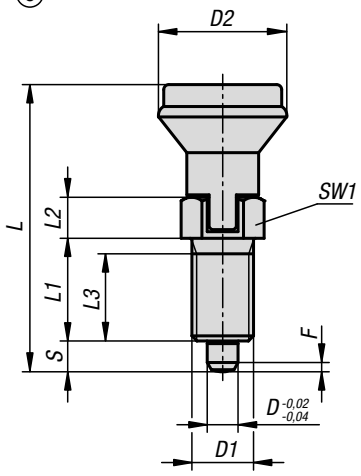

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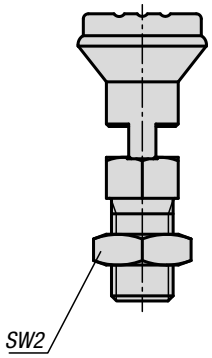


Material:
Steel version:
Grub screw and indexing pin steel.

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

Sample order:
K0339.04206

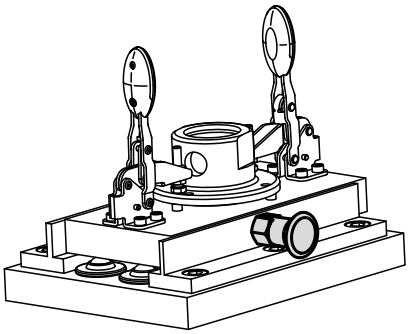
Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications in which the pin is disengaged over extended periods and should be prevented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

On request:
Special versions.

Accessories:
Spacer rings K0665

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

Indexing plungers



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	Travel S	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	Travel S	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	Travel S	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 ECO

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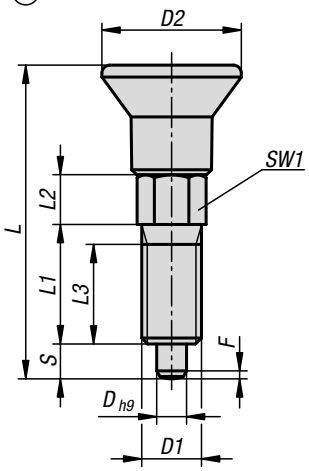

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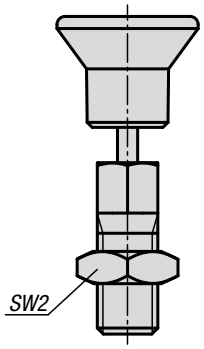

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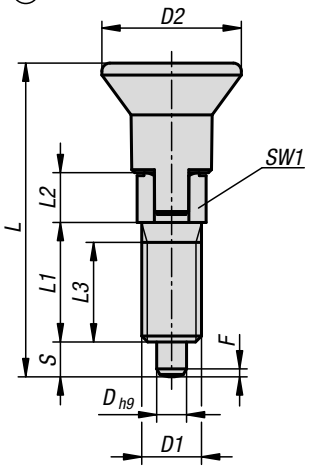

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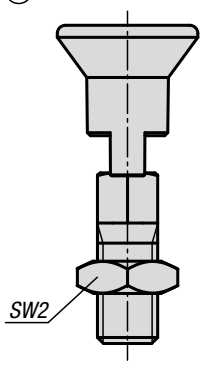


Material:
Steel version:
Threaded sleeve 1.0718.
Indexing pin 1.4305.

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:
Indexing plungers are used to prevent changes to the locking position due to lateral forces. Another locking position can be set only after the plunger has been manually released. Indexing plungers with regular thread and unpolished and unhardened indexing pins are a cost-effective alternative to existing indexing plungers. But their degree of precision is still sufficient for many applications. The smaller production tolerances also make these products less sensitive to the alignment errors that can occur when aligning indexing plungers with the hole in the counter piece. Pay attention to the max. tightening torque when assembling.

On request:
Special versions and fine thread.

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

Indexing plungers ECO

KIPP Indexing plungers ECO, 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	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

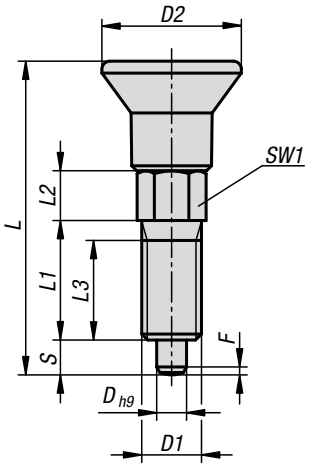
KIPP Indexing plungers ECO, stainless steel, indexing pin not hardened

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	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

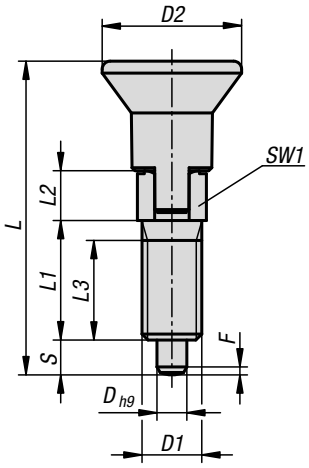
Indexing plungers ECO

with thread lock

AP



CP



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:
Indexing plungers are used to prevent changes to the locking position due to lateral forces. A new locking position can be set only after the plunger has been manually released. Indexing plungers with regular thread and unpolished and unhardened indexing pins are a cost-effective alternative to existing indexing plungers. But their degree of precision is still sufficient for many applications. The smaller production tolerances also make these products less sensitive to the alignment errors that can occur when aligning indexing plungers with the hole in the counter piece. The thread lock allows the fitting depth to be coordinated exactly with the existing components, so that no fastening is required.
The thread lock is an adhesive coat which is applied at selected points (in spots). The tightening and unscrewing torques are guide values.

On request:
Special versions and fine thread.

Drawing reference:
Form AP: non-lockout type, without locknut
Form CP: lockout type, without locknut

Indexing plungers ECO

with thread lock

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

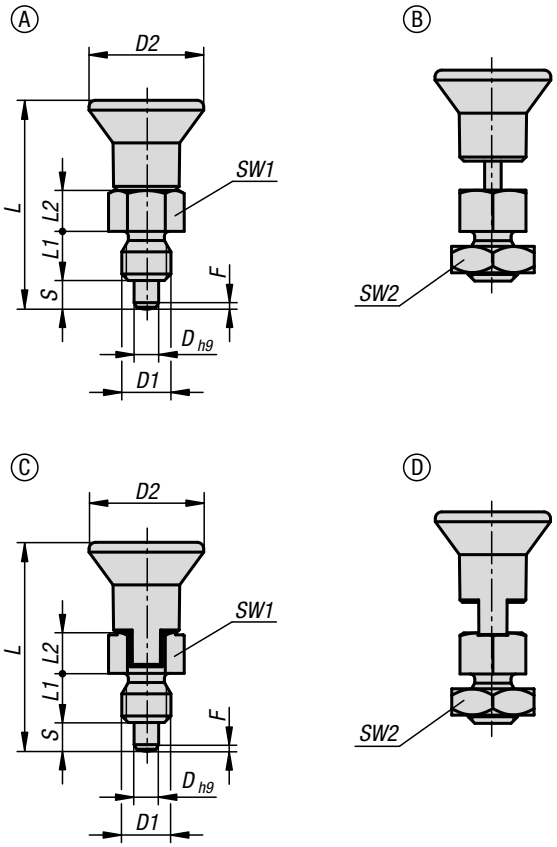
Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	Travel S	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1098.091903060	**K1098.093903060**	3	M6	14	31,5	12	5	10	3,5	6	0,8	4	10
K1098.091004060	**K1098.093004060**	4	M6	14	36	15	6	13	4	6	1	6	12
K1098.091105080	**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 ECO, with thread lock, stainless steel, indexing pin not hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	Travel S	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 ECO

short version



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:
Indexing plungers are used to prevent changes to the locking position due to lateral forces. Another locking position can be set only after the plunger has been manually released. Indexing plungers with regular thread and unpolished and unhardened indexing pins are a cost-effective alternative to existing indexing plungers. But their degree of precision is still sufficient for many applications. The smaller production tolerances also make these products less sensitive to the alignment errors that can occur when aligning indexing plungers with the hole in the counter piece. Pay attention to the max. tightening torque when assembling.

On request:
Special versions.

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

Indexing plungers ECO

short version

KIPP Indexing plungers ECO, 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	Travel S	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 ECO, 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	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

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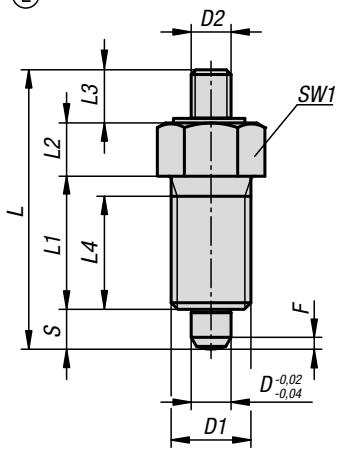

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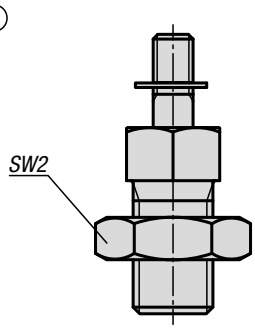


Material:
Steel version
Indexing pin hardened:
grade 5.8.

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

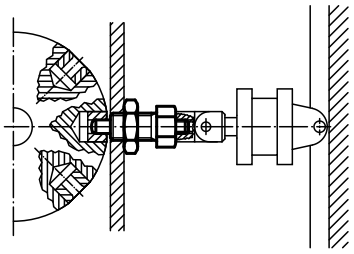
Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged. Special grips can be fitted on the projecting threaded pin. This pin is also suitable for automatic actuation e.g. programme controlled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

On request:
Special versions.

Accessories:
Spacer rings K0665

Drawing reference:
Form E: with threaded pin, without locknut
Form F: with threaded pin, with locknut

Indexing plungers



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

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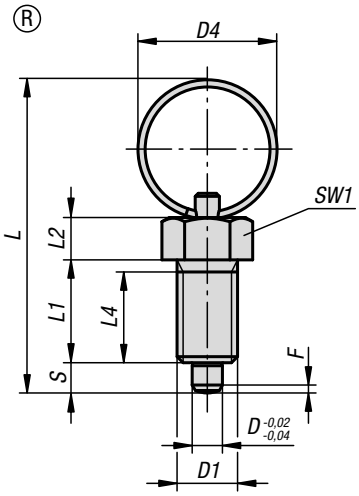

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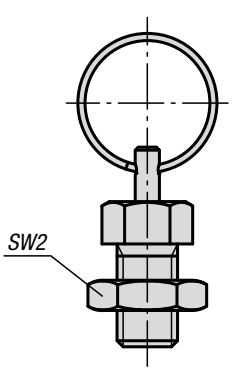


Material:
Steel version
Indexing pin hardened:
grade 5.8.

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

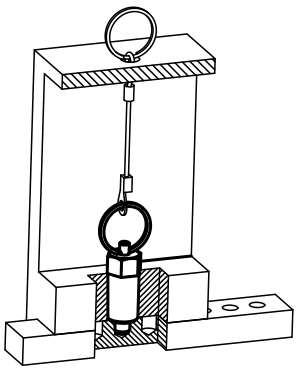
Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged. The key ring is also suitable for automatic actuation of the indexing plunger by e.g. program-controlled pneumatic cylinder or by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

On request:
Special versions.

Accessories:
Spacer rings K0665

Drawing reference:
Form R: without locknut
Form S: with locknut

Indexing plungers



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form R	Order No. Form S	D	D1	D4	L	L1	L2	L4	Travel S	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	Travel S	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

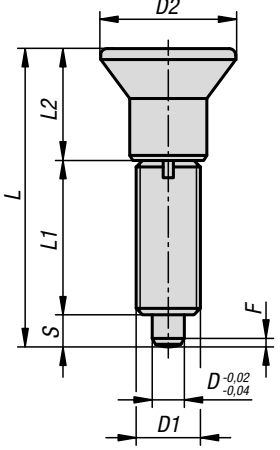
KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form R	Order No. Form S	D	D1	D4	L	L1	L2	L4	Travel S	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

Ⓖ



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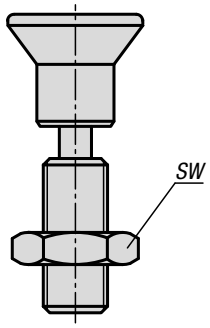

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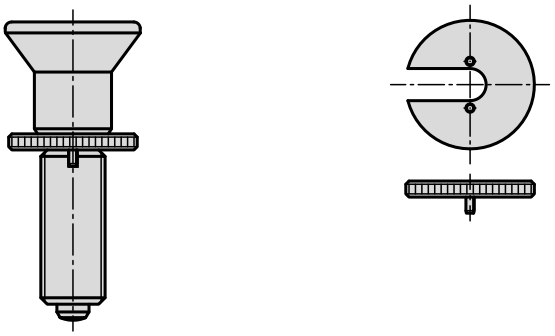


Material:
Steel version
Indexing pin hardened:
grade 5.8.

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.

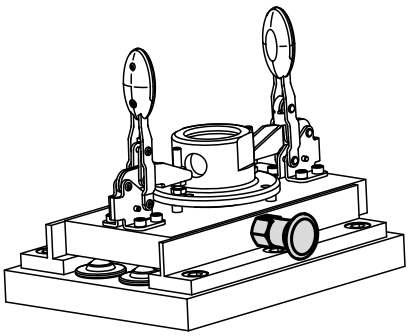
Accessories:
Spacer rings K0665

Drawing reference:
Form G: without locknut
Form H: with locknut

1) Indexing plunger with screw-in washer

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	Travel S	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	Travel S	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

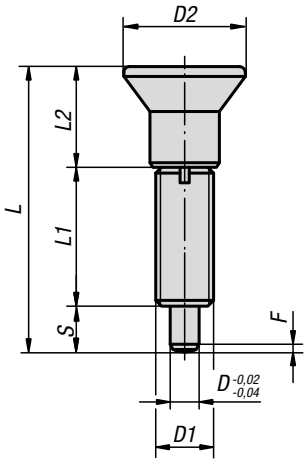
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	Travel S	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

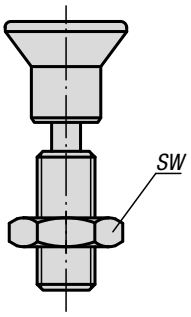
Indexing plungers

without collar with extended indexing pin

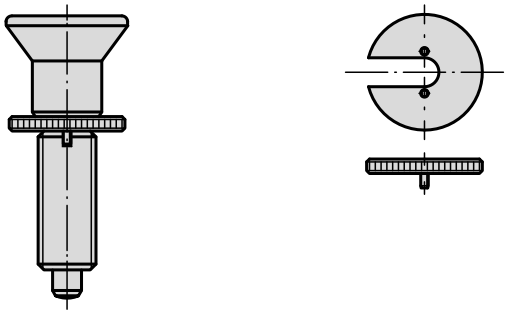
Form G
without locknut



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:
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.

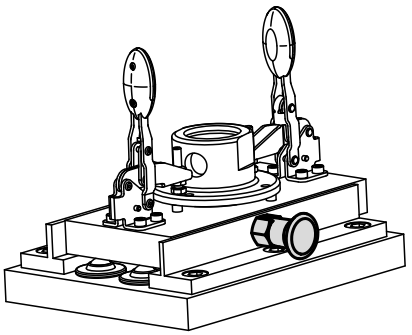
Accessories:
Spacer rings K0665

Drawing reference:
Form G: without locknut
Form H: with locknut

1) Indexing plunger with screw-in washer

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	Travel S	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	Travel S	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	Travel S	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

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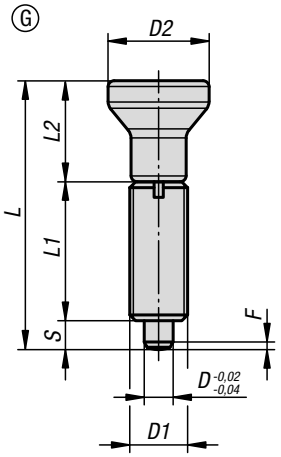

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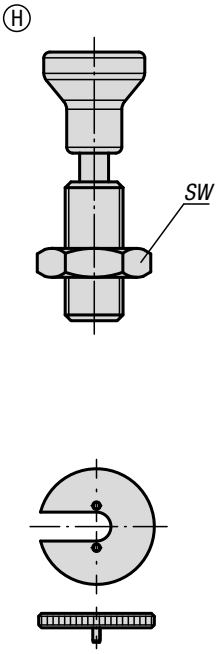

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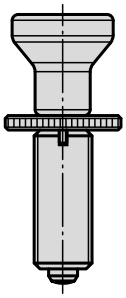


Material:
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

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

Mushroom grip 1.4305, fine turned.

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

Drawing reference:
Form G: without locknut
Form H: with locknut

1) Indexing plunger with screw-in washer

Indexing plungers

stainless steel without collar

KIPP Indexing plungers stainless steel without collar, indexing pin hardened

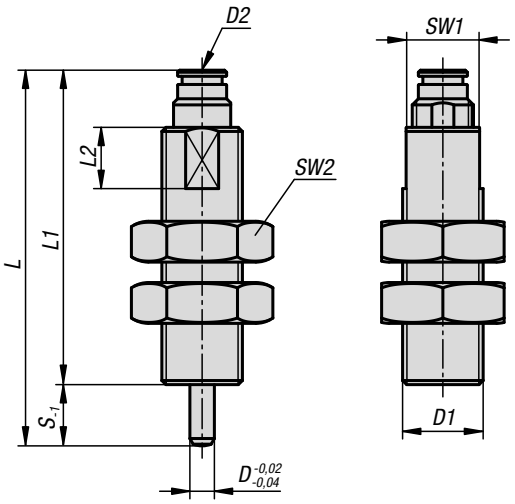
Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	Travel S	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0634.001903	**K0634.002903**	3	M6x0,75	14	34,5	17	14	3,5	-/10	0,8	4,5	10	K0344.99
K0634.001004	**K0634.002004**	4	M8x1	18	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	Travel S	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

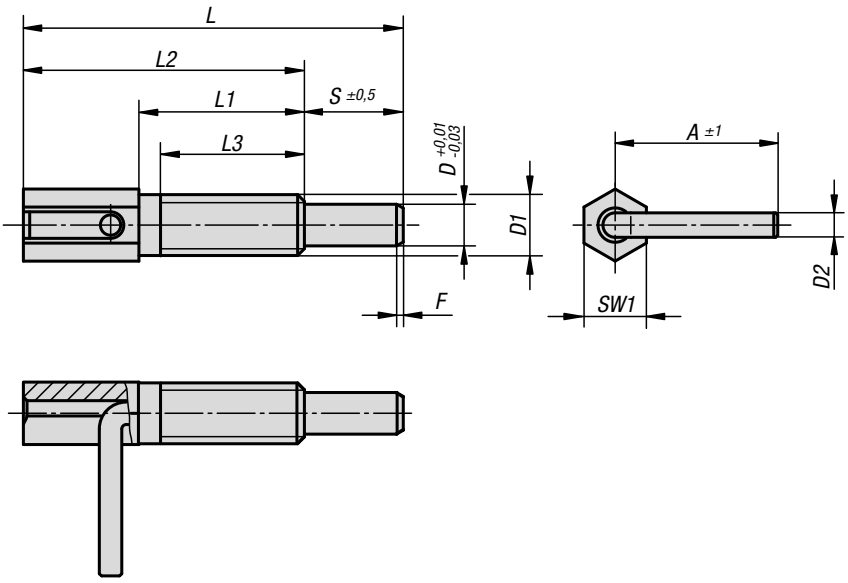
Note:
The indexing plungers are operated by applying compressed air.
The spring-loaded reset occurs by disconnecting the air supply.

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	L	L1	L2	Travel S	SW1	SW2	Operating pressure bar	Piston force at 6 bar (N)	Spring retraction force ca. N
K1116.1308010	**K1116.01308010**	8	M20x1,5	M5	77	67	15	10	18	30	2 - 6	39,6-35,3	11,6-5,1
K1116.1206010	**K1116.01206010**	6	M20x1,5	M5	80	70	15	10	18	30	2 - 6	38,7-35,1	9,9-6
K1116.1308015	**K1116.01308015**	8	M20x1,5	M5	89	74	15	15	18	30	2 - 6	39,6-33,1	11,6-5,1
K1116.1206015	**K1116.01206015**	6	M20x1,5	M5	92	77	15	15	18	30	2 - 6	38,7-32,9	11,8-6

Indexing plungers



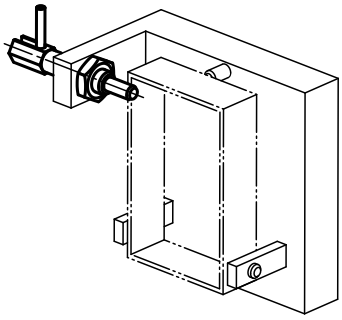
Material:
Steel grade 5.8.

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	L	L1	L2	L3	Travel S	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	41,5	20	32	17	9,5	6	0,7	3	10	1,6
K0340.1905	19	5	M8	3	54	27	42	24	12	8	0,9	3,5	13,5	4,5
K0340.1206	23,5	6	M10	3,5	65	33,5	51	30	14	10	1,1	4	16	10
K0340.1308	31	8	M12	4,7	73	31,8	54	28	19	12	1,3	4	22	13
K0340.1410	33	10	M16	4,7	102,5	50,5	77,5	44,5	25	16	1,6	4	23	42

Indexing plungers

without collar

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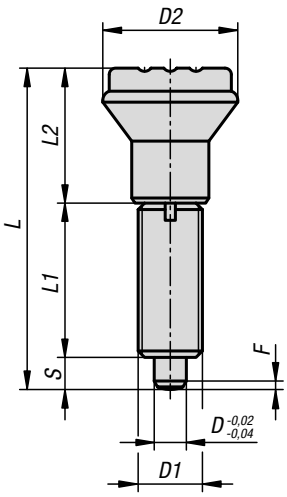

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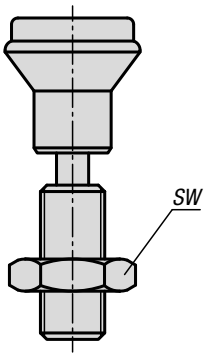

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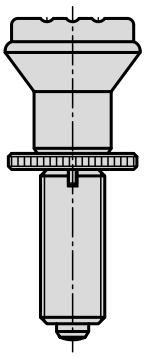

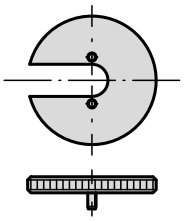

Material:
Steel version
Indexing pin hardened:
grade 5.8.

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

Drawing reference:
Form G: without locknut
Form H: with locknut

1) Indexing plunger with screw-in washer

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	Travel S	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	Travel S	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	Travel S	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

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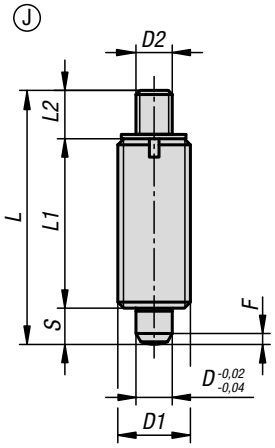

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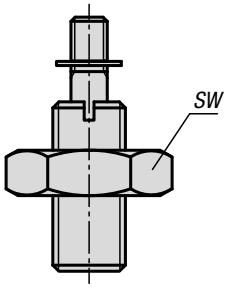

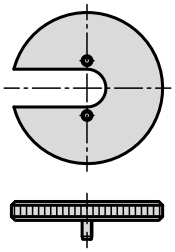

Material:
Steel version
Indexing pin hardened:
grade 5.8.

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

Drawing reference:
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	Travel S	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	Travel S	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	Travel S	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

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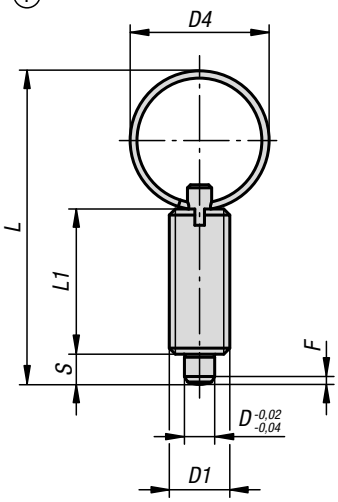

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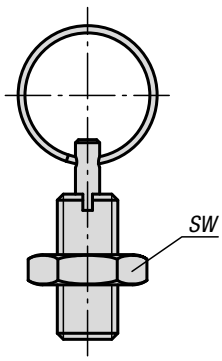

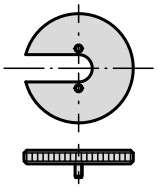

Material:
Steel version
Indexing pin hardened:
grade 5.8.

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

Drawing reference:
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	Travel S	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	Travel S	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	Travel S	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

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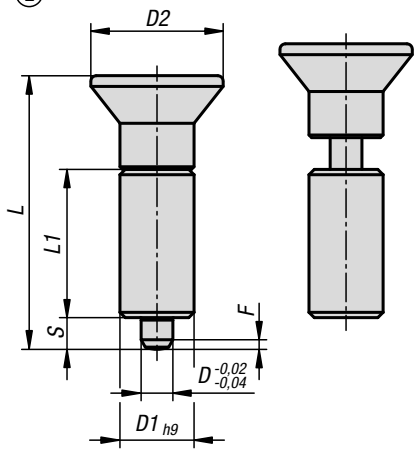

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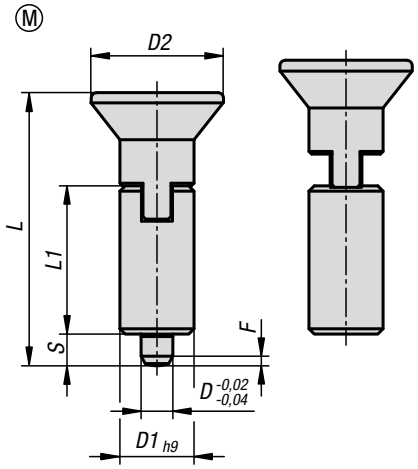


Material:
Steel version:
Indexing pin hardened:
Sleeve 1.0403 weldable.
Indexing pin grade 5.8.

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 where the indexing plungers should remain disengaged over an extended period and the pin prevented from springing back.
If the indexing plunger is welded on, the sleeve should be tack welded so that the spring is not thermally damaged due to high temperatures.

On request:
Special versions.

Drawing reference:
Form L: non-lockout type
Form M: lockout type

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	Travel S	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	Travel S	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

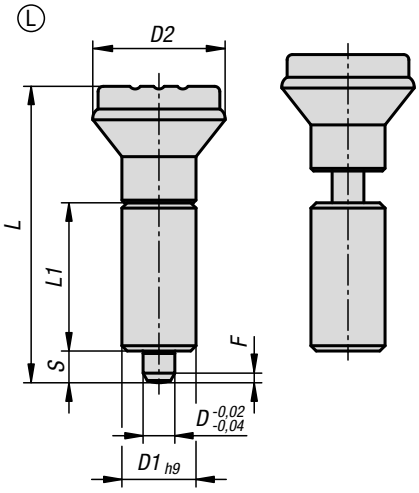
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	Travel S	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

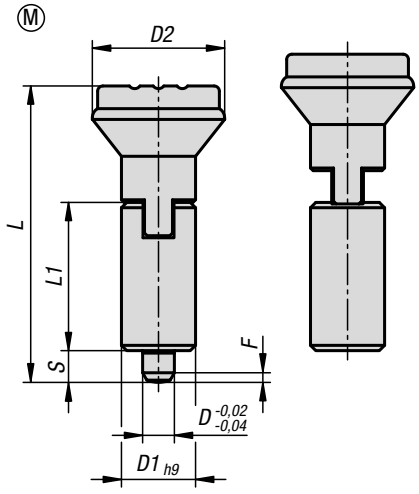
Indexing plungers

without collar

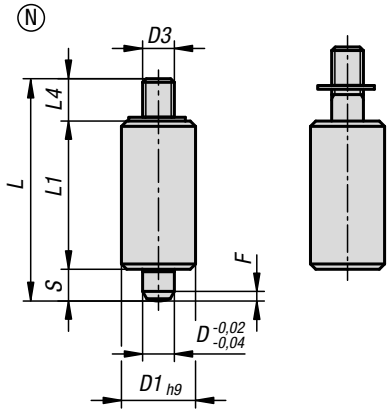
Ⓛ



Ⓜ



Ⓝ



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.
If the indexing plunger is welded on, the sleeve should be tack welded so that the spring is not thermally damaged due to high temperatures.

On request:
Special versions.

Drawing reference:
Form L: non-lockout type
Form M: lockout type
Form N: with threaded pin

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

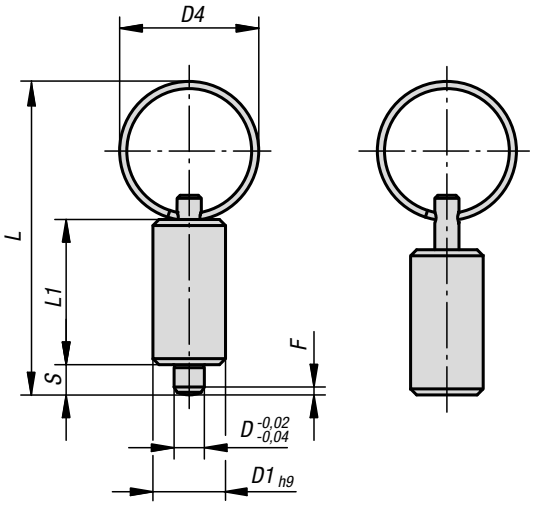
Order No. Form L	Order No. Form M	Order No. Form N	D	D1	D2	D3	L	L1	L4	Travel S	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0347.01105	**K0347.02105**	**K0347.03105**	5	12	21/21/-	-/-/M4	47/47/37	24	-/-/8	5	1,3	5	12
K0347.01206	**K0347.02206**	**K0347.03206**	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.
Sleeve1.0403 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 manually disengaged.
The key ring enables actuating the indexing plunger e.g. automatically (program-controlled) with the aid of a pneumatic cylinder or remote controlled with Bowden cables.
If the indexing plunger is welded on, the sleeve should be tack welded so that the spring is not thermally damaged due to high temperatures.

On request:
Special versions.

Indexing plungers

without collar

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

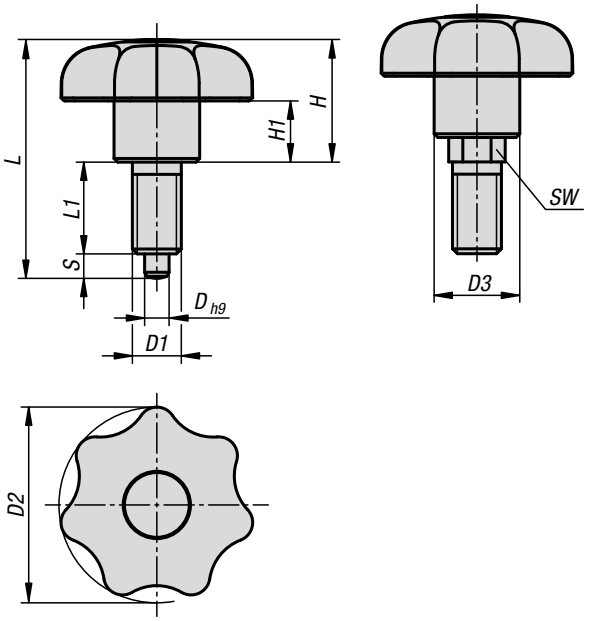
KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

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

Indexing and clamping grip



The indexing and clamping grips enable the positioning, securing and clamping of diverse positioning elements with just one product. Indexing is carried out using the indexing pin and the item is clamped using the end face of the sleeve.

Material:
Star grip black grey thermoplastic.
Threaded sleeve 1.0718.
Indexing pin stainless steel 1.4305.

Version:
Steel electro zinc-plated.
Stainless steel bright.

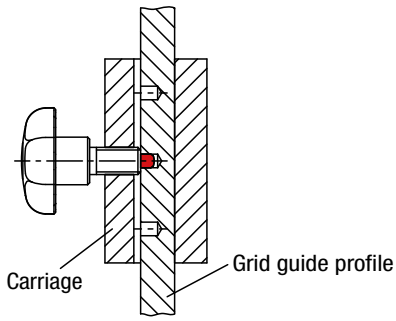
Sample order:
K1582.108040

Advantages:
Indexing and clamping with one product.
Ergonomic operation via star grip.

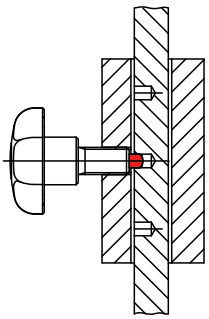
On request:
Special versions.

Accessories:
Hexagon nuts thin DIN 439

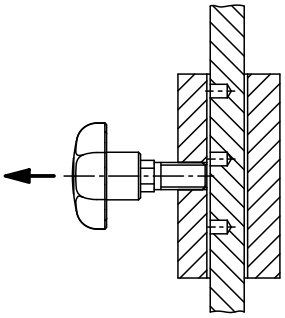
Indexing and clamping grip



- Indexing pin engaged
- Grid guide profile clamped
- Locking slide system locked and clamped play-free with threaded sleeve



- Indexing pin engaged
- Lock released
- Locking slide system locked, but not play-free



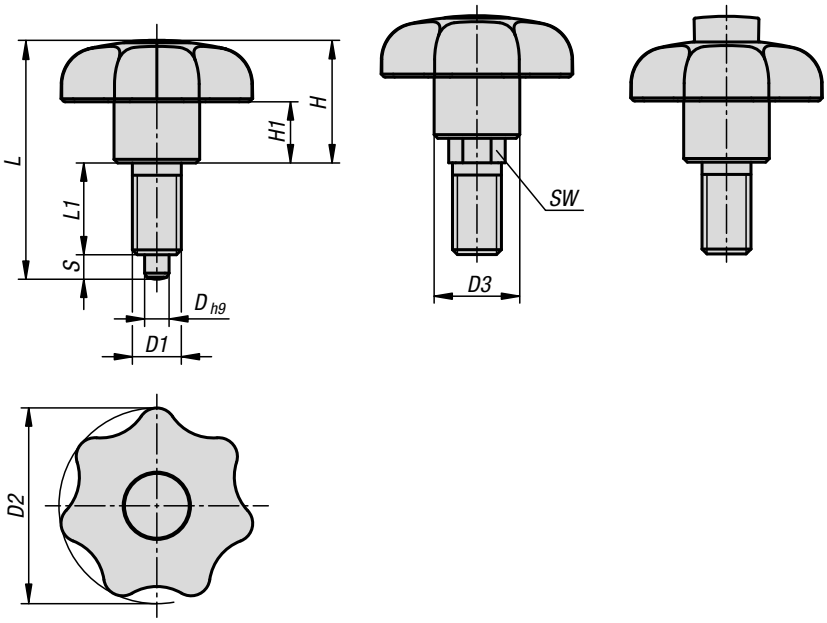
- Indexing and clamping grip retracted
- Indexing pin disengaged
- Lock released
- Locking slide system can be moved

KIPP Indexing and clamping grip

Order No.	D	D1	D2	D3	H	H1	L	L1	Travel S	SW
K1582.108040	4	M8	32	14	20	10	39	15	4	8
K1582.210050	5	M10	40	18	24,9	13	46,9	17	5	10
K1582.312060	6	M12	50	22	31,8	17	57,8	20	6	12
K1582.416080	8	M16	63	26	40	21	74	26	8	16
K1582.108041	4	M8x1	32	14	20	10	39	15	4	8
K1582.210051	5	M10x1	40	18	24,9	13	46,9	17	5	10
K1582.312061	6	M12x1,5	50	22	31,8	17	57,8	20	6	12
K1582.416081	8	M16x1,5	63	26	40	21	74	26	8	16

Indexing and clamping grip

with optical locked indicator



The indexing and clamping grips enable the positioning, securing and clamping of diverse positioning elements with just one product. Indexing is carried out using the indexing pin and the item is clamped using the end face of the sleeve. A protruding signal button means that the indexing pin is not completely extended.

Material:
Star grip black grey thermoplastic.
Signal button red thermoplastic.
Threaded sleeve 1.0718.
Indexing pin stainless steel 1.4305.

Version:
Steel electro zinc-plated.
Stainless steel bright.

Sample order:
K1583.108040

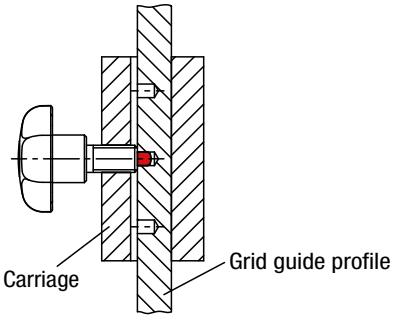
Advantages:
Optical indication of the engagement function.
Indexing and clamping with one product.
Ergonomic operation via star grip.

On request:
Special versions.

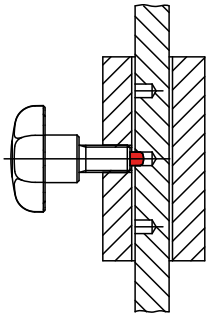
Accessories:
Hexagon nuts thin DIN 439

Indexing and clamping grip

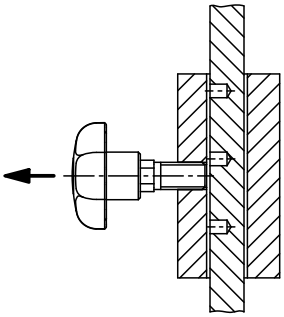
with optical locked indicator



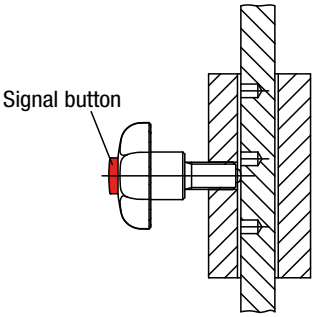
- Indexing pin engaged
- Grid guide profile clamped
- Locking slide system locked and clamped play-free with threaded sleeve



- Indexing pin engaged
- Lock released
- Locking slide system locked, but not play-free



- Indexing and clamping grip retracted
- Indexing pin disengaged
- Lock released
- Locking slide system can be moved



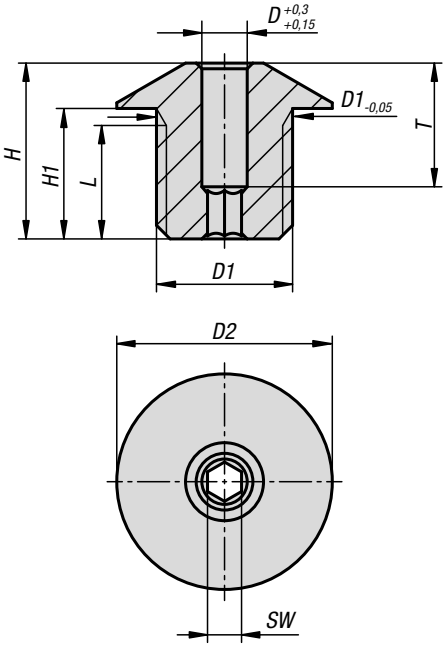
- Indexing and clamping grip not retracted
- Indexing pin disengaged
- Lock released
- Signal button protruding
- Locking slide system can be moved to the next notch

KIPP Indexing and clamping grip with optical locked indicator

Order No.	D	D1	D2	D3	H	H1	L	L1	Travel S	SW
K1583.108040	4	M8	32	14	20	10	39	15	4	8
K1583.210050	5	M10	40	18	24,9	13	46,9	17	5	10
K1583.312060	6	M12	50	22	32	17	58	20	6	12
K1583.416080	8	M16	63	26	40,3	21	74,3	26	8	16
K1583.108041	4	M8x1	32	14	20	10	39	15	4	8
K1583.210051	5	M10x1	40	18	24,9	13	46,9	17	5	10
K1583.312061	6	M12x1,5	50	22	32	17	58	20	6	12
K1583.416081	8	M16x1,5	63	26	40,3	21	74,3	26	8	16

Positioning bushes

for indexing plungers

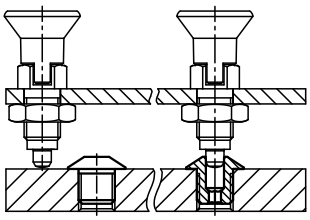


Material:
Steel or 1.4034 stainless steel.

Version:
Steel hardened and black oxidised.
Stainless steel, hardened, bright.

Sample order:
K1290.04

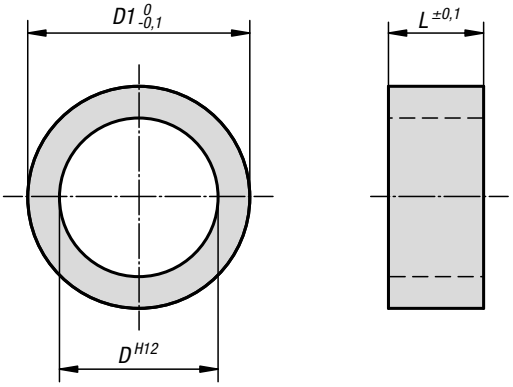
Note:
Positioning bushes suitable for indexing plunger.
Matched with mounting brackets K0638.



KIPP Positioning bushes for indexing plungers

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 stainless steel



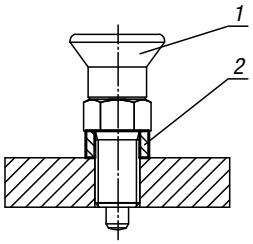
Material:
1.4305 or 1.4404 stainless steel.

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 stainless steel

Order No. 1.4305	Order No. 1.4404	D	D1	L
K0665.90811021	K0665.90811022	8	11	2
K0665.90811031	K0665.90811032	8	11	3
K0665.90811041	K0665.90811042	8	11	4
K0665.90811061	K0665.90811062	8	11	6
K0665.90811081	K0665.90811082	8	11	8
K0665.91014021	K0665.91014022	10	14	2
K0665.91014031	K0665.91014032	10	14	3
K0665.91014041	K0665.91014042	10	14	4
K0665.91014061	K0665.91014062	10	14	6
K0665.91014081	K0665.91014082	10	14	8
K0665.91215021	K0665.91215022	12	15	2
K0665.91215041	K0665.91215042	12	15	4
K0665.91215051	K0665.91215052	12	15	5
K0665.91215061	K0665.91215062	12	15	6
K0665.91215081	K0665.91215082	12	15	8
K0665.91217021	K0665.91217022	12	17	2
K0665.91217041	K0665.91217042	12	17	4
K0665.91217051	K0665.91217052	12	17	5
K0665.91217061	K0665.91217062	12	17	6
K0665.91217081	K0665.91217082	12	17	8
K0665.91621041	K0665.91621042	16	21	4
K0665.91621051	K0665.91621052	16	21	5
K0665.91621061	K0665.91621062	16	21	6
K0665.91621081	K0665.91621082	16	21	8
K0665.91621101	K0665.91621102	16	21	10

Indexing plungers - Premium

with tapered pin

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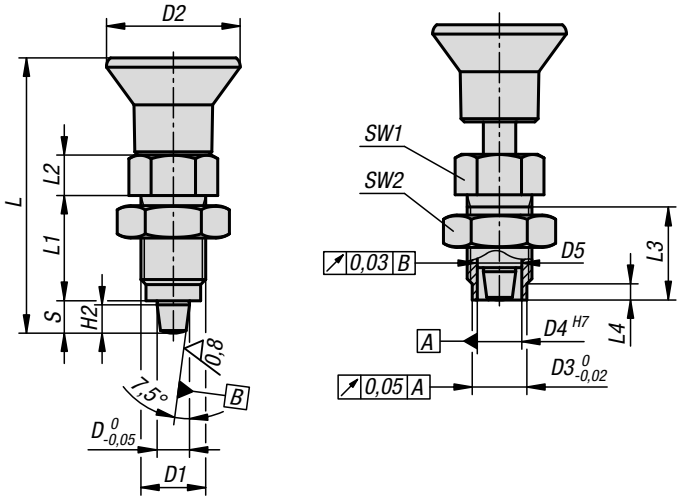

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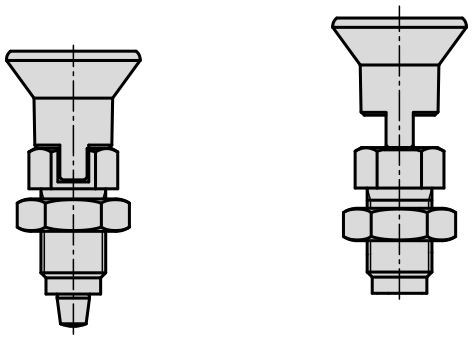


Material:
Steel version:
indexing pin hardened: grade 5.8

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.

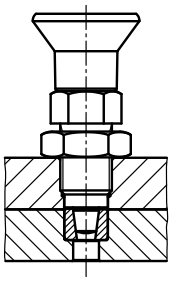
On request:
Special versions and spacer rings.

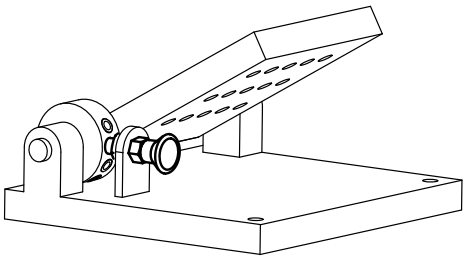
Accessories:
Matching tapered bush K0736.

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

Indexing plungers - Premium

with tapered pin





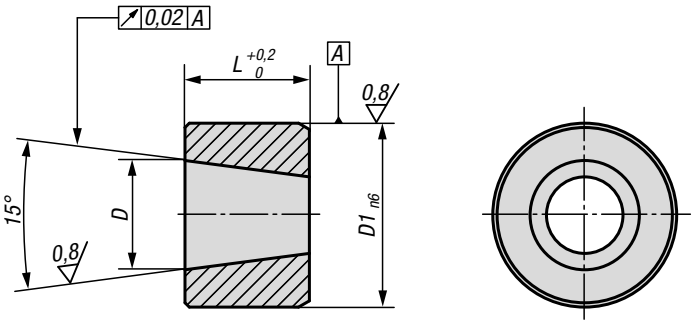
KIPP Premium indexing plungers with tapered pin, steel, indexing pin hardened

Order No. Form B	Order No. Form D	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H2	Travel S	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	4	5	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	5	6	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	7	8	19	24	15	35
K0736.52410	**K0736.54410**	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	9	10	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	H2	Travel S	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	4	5	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	5	6	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	7	8	19	24	15	35
K0736.502410	**K0736.504410**	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	9	10	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

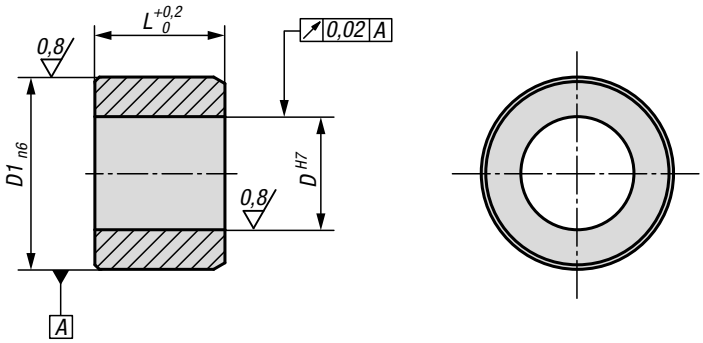
Note:
Matching bushes for premium indexing plungers with tapered pin K0736.

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

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

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 simultaniously.

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 - Premium

with cylindrical pin

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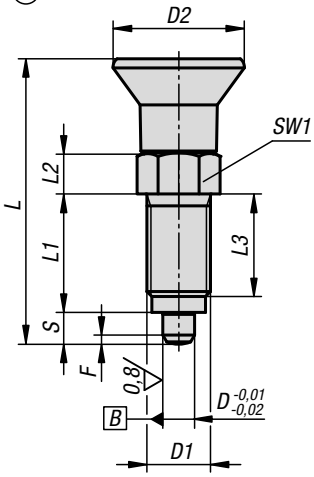

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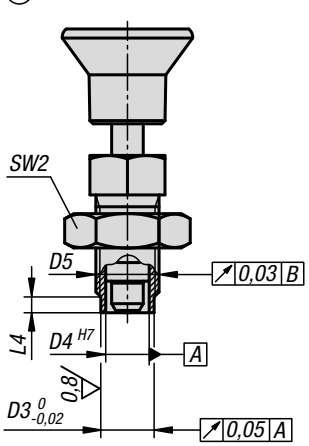

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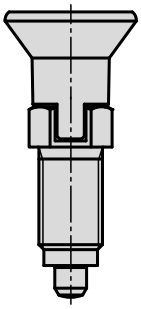

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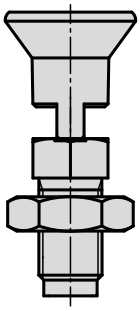
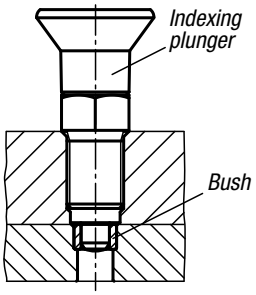
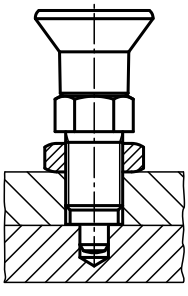


Fixation
with bush:



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….

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

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	Travel S	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	Travel S	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	Travel S	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	Travel S	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

Indexing plungers

with rotation lock and lead-in chamfer

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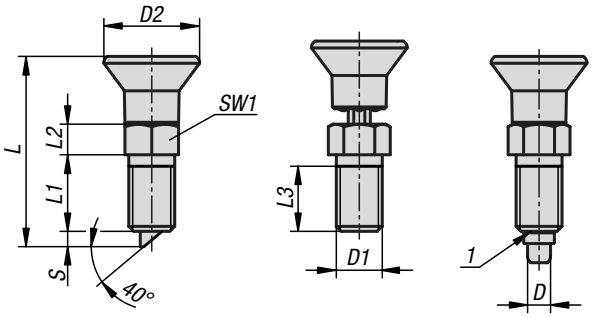

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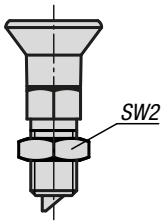


Material:
Steel version:
indexing pin hardened: grade 5.8
Stainless steel version:
indexing pin hardened: threaded sleeve 1.4305,
indexing pin 1.4305.

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.

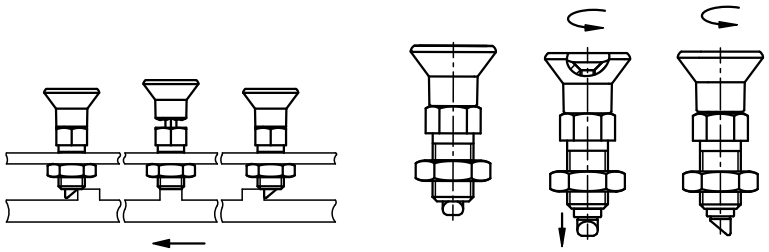
Accessories:
Spacer rings K0665

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

1) marking ring

Indexing plungers

with rotation lock and lead-in chamfer



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	Travel S	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	Travel S	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

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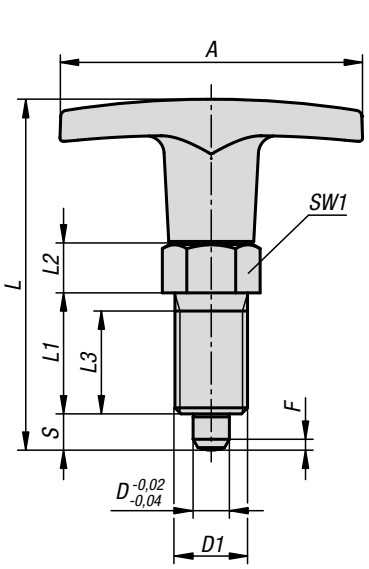

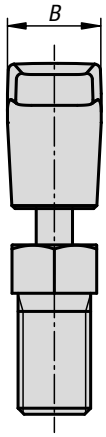

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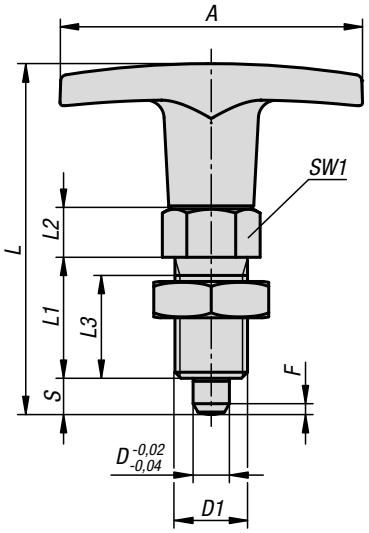

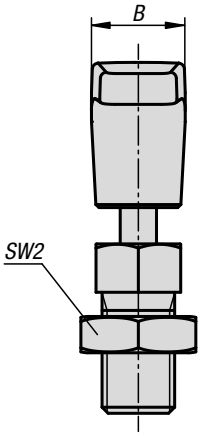

Drawing reference:
Form A: without locknut
Form B: with locknut

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

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	Travel S	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	Travel S	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

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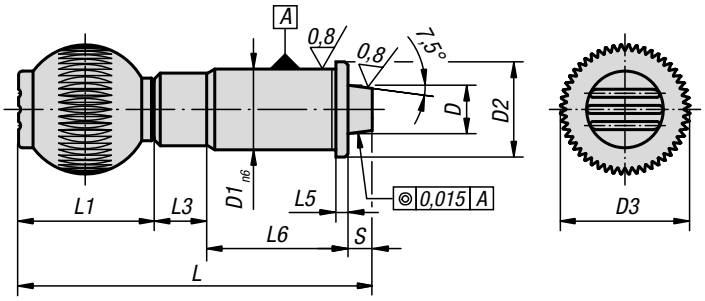

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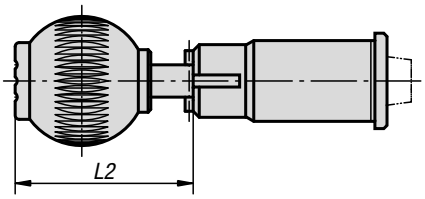


Material:
Steel.
Grip ball thermoplastic.

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.

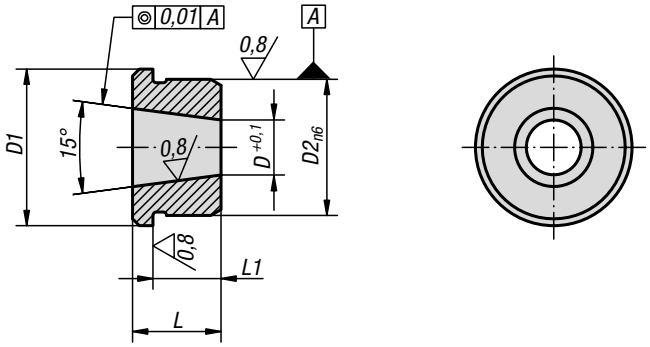
For technical information see assembly and installation instructions.

Drawing reference:
Form A: standard
Form B: lockable

KIPP Precision indexing plungers with tapered pin

Order No. Form A standard	Order No. Form B lockable	D	D1	D2	D3	L	L1	L2	L3	L5	L6	Travel S	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	75	25	-/30,5	13	2,5	31	6	19	29	M6
K0359.012	**K0359.112**	12	20	23	32	87	33	-/40,5	13	3	35	6	22	35	M8
K0359.016	**K0359.116**	16	25	28	40	102,5	41,5	-/49	13	3	42	6	30	50	M10
K0359.020	**K0359.120**	20	30	33	40	110,5	41,5	-/49	13	3	50	6	46	63	M10
K0359.025	**K0359.125**	25	38	42	50	130	51	-/58,5	13	3	60	6	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

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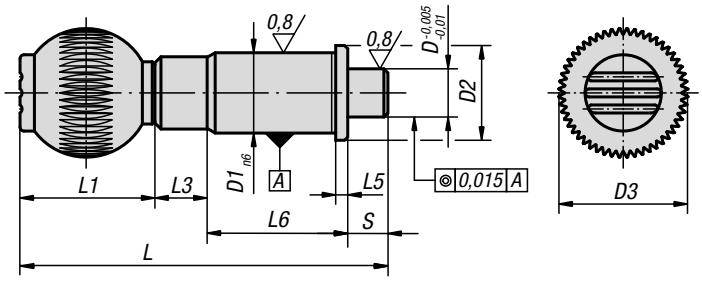

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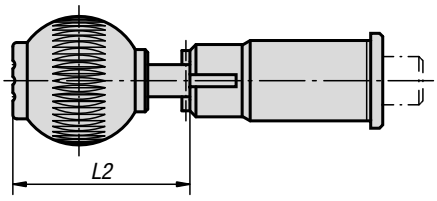


Material:
Steel.
Grip ball thermoplastic.

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.

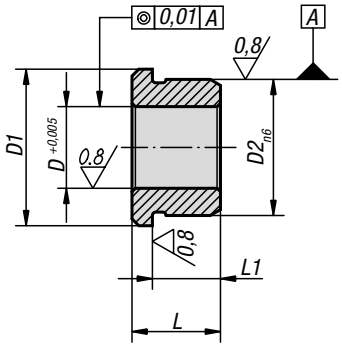
Technical Information see assembly and installation instructions.

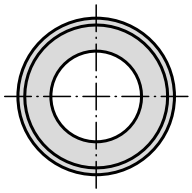
Drawing reference:
Form A: standard
Form B: lockable

KIPP Precision indexing plungers with cylindrical pin

Order No. Form A standard	Order No. Form B lockable	D	D1	D2	D3	L	L1	L2	L3	L5	L6	Travel S	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	79	25	-/36,5	13	2,5	31	10	15	30	M6
K0361.012	**K0361.112**	12	20	23	32	91	33	-/44,5	13	3	35	10	15	35	M8
K0361.016	**K0361.116**	16	25	28	40	106,5	41,5	-/53	13	3	42	10	20	50	M10
K0361.020	**K0361.120**	20	30	33	40	114,5	41,5	-/53	13	3	50	10	36	63	M10
K0361.025	**K0361.125**	25	38	42	50	134	51	-/62,5	13	3	60	10	20	73	M10

Bushes cylindrical



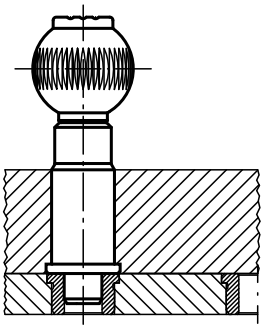


Material:
Steel.

Version:
Hardened and ground.

Sample order:
K0362.20

Note:
Bushes for precision indexing plungers K0361.

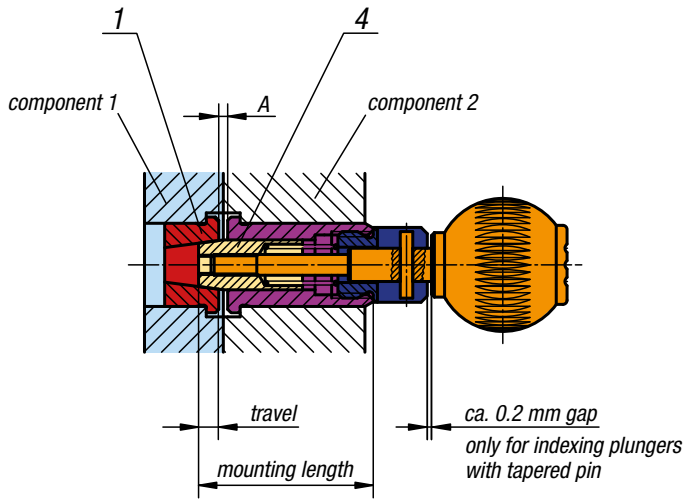


KIPP Cylindrical bushes

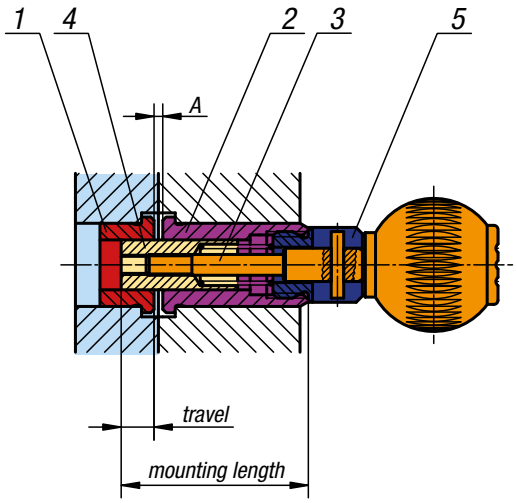
Order No.	D	D1	D2	L	L1
K0362.10	10	19	16	11	8,5
K0362.12	12	23	20	13	10
K0362.16	16	28	25	17	14
K0362.20	20	33	30	16	13
K0362.25	25	42	38	19	16

Assembly and installation instructions for precision indexing plungers

Precision indexing plungers with tapered indexing pin



Precision indexing plungers with cylindrical indexing pin



Assembly instructions:

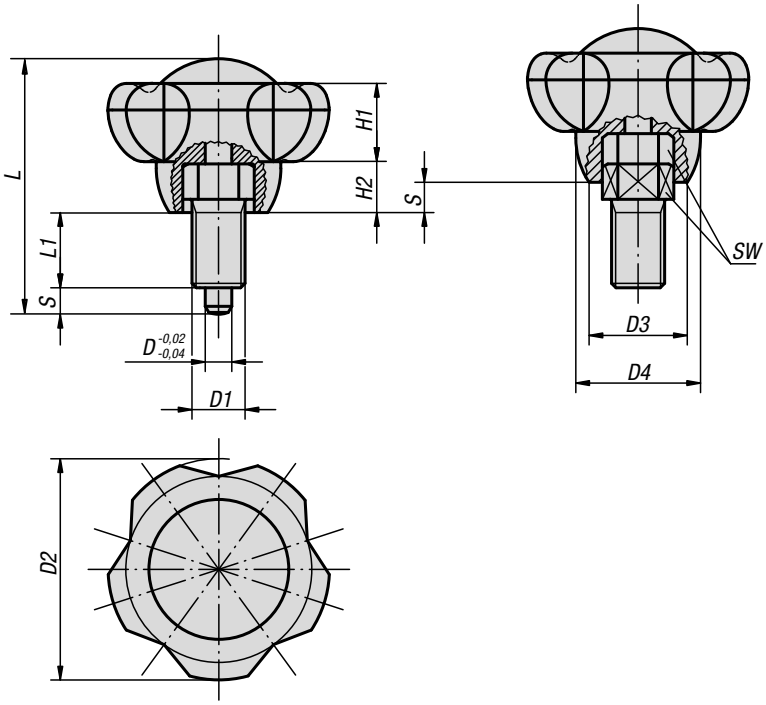
1. Fit tapered or cylindrical bush (1) into “component 1”.
2. Mount sleeve (2) into “component 2”.
3. Determine mounting length (actual dimension). Mounting length = A + travel + length of sleeve 2. Models with tapered pin should have a 0.2 mm gap.
4. Glue screw (3) and centring pin (4) together with 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

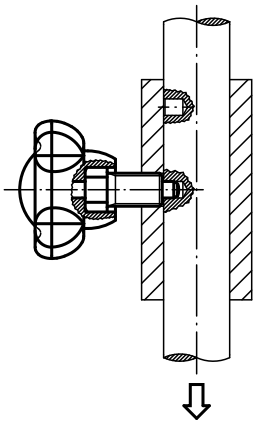


Material:
Thermoplastic.
Indexing pin and screw steel 5.8.

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.



black grey	light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

KIPP Indexing plungers with five lobe grip

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

Notes

Cam-action indexing plungers

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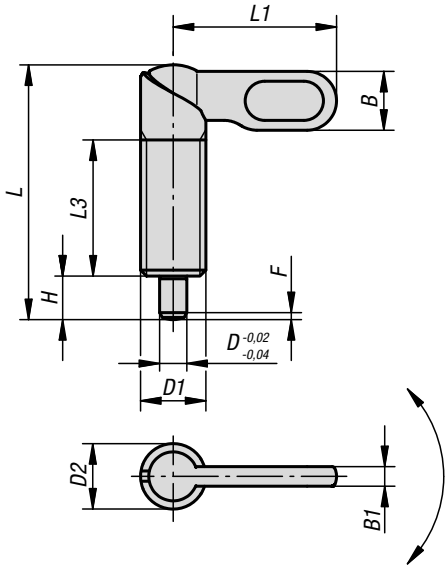

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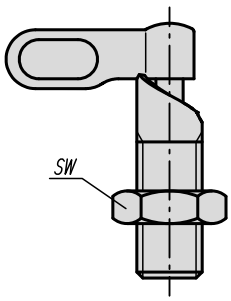

Material:
Steel grade 5.8.

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°	Spring force 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

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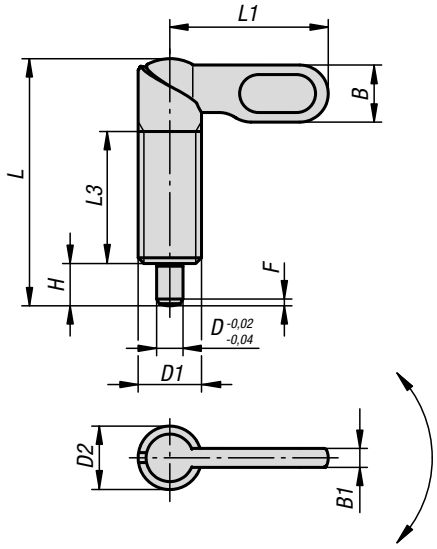

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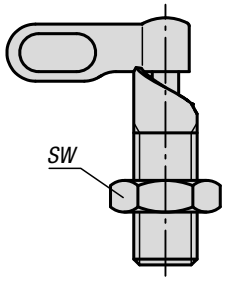

Material:
Stainless steel 1.4305.

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

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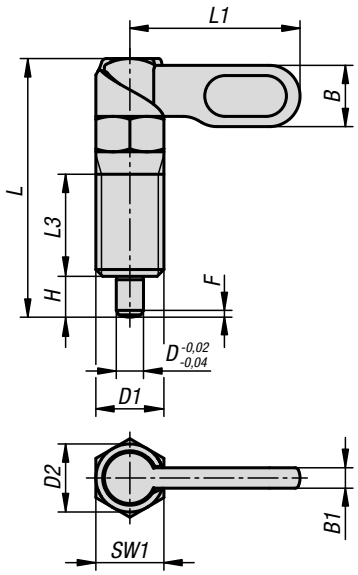

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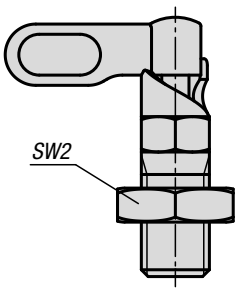


Drawing reference:
Form A: grip uncoated without nut
Form C: grip powder-coated without nut
Form B: grip uncoated with nut
Form D: grip powder-coated with nut

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.

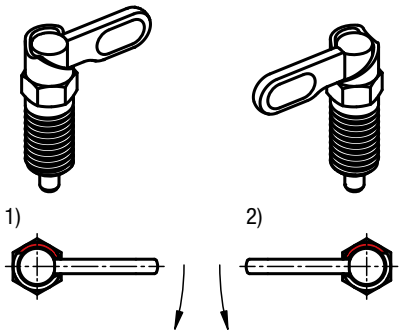
KIPP Cam action indexing plunger with stop

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
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

Cam-action indexing plungers

with stop

1) stop left
2) stop right



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

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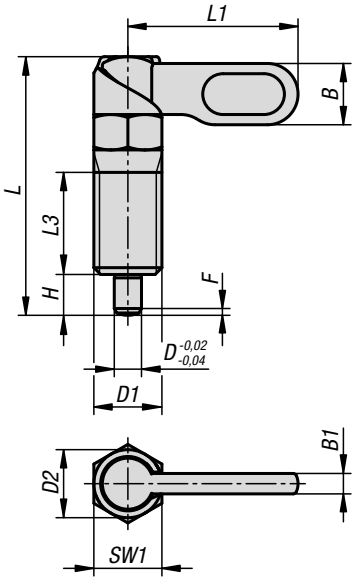

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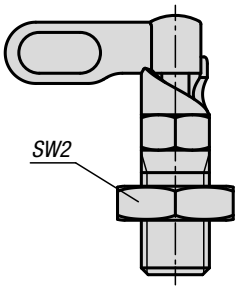


Material:
Stainless steel 1.4305.

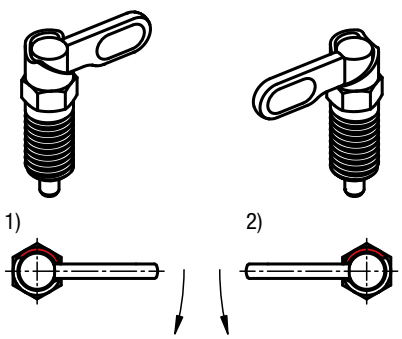
Version:
Bright.
Indexing pin ground, not hardened.

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

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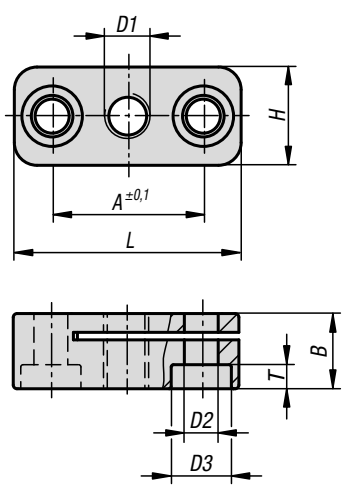

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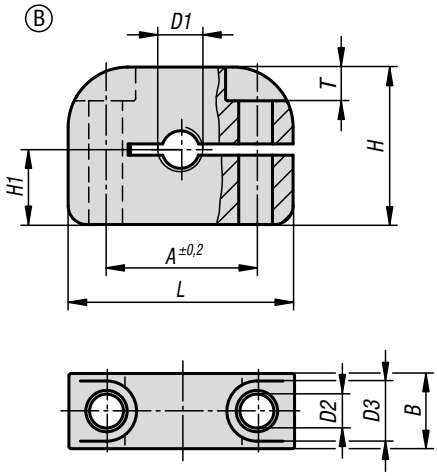


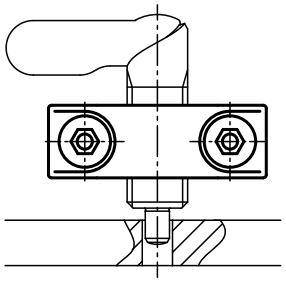
Material:
Aluminium 3.2163.

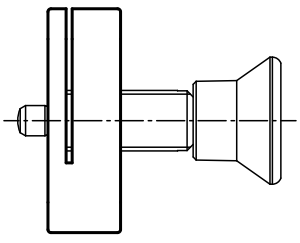
Version:
Black.

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.

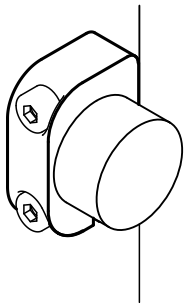
Drawing reference:
Form A: fastening holes parallel to thread
Form B: fastening holes perpendicular to thread





Mounting brackets

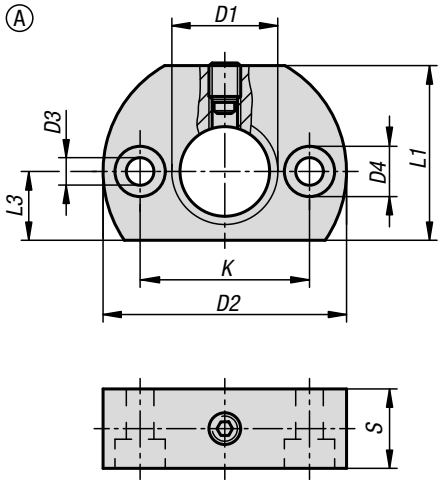
aluminium

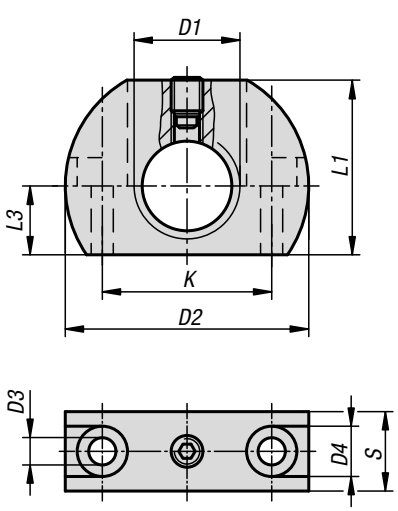


KIPP Mounting bracket aluminium

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

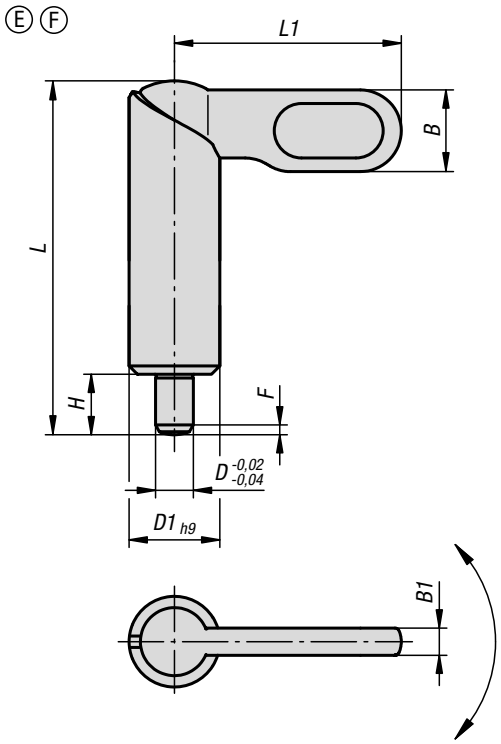
Note:
These mounting brackets are assembly aids for cam-action indexing plungers and extend their application field. They can also be used with other indexing plungers or other elements that have a suitable thread. Fastened using cap screws.

Drawing reference:
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.

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.

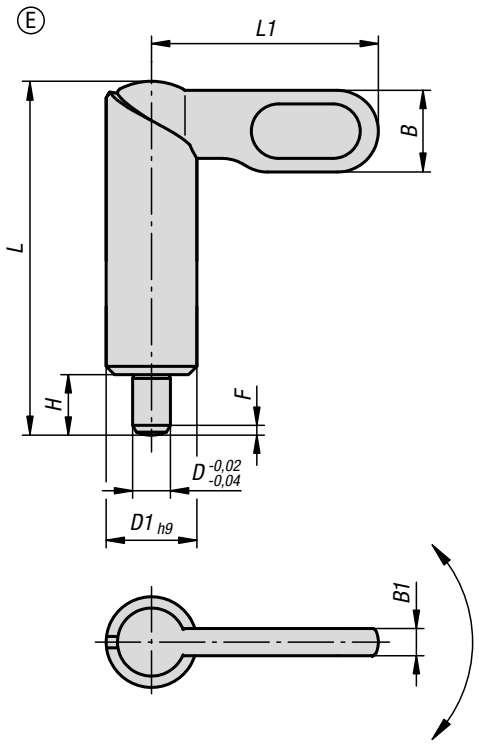
Drawing reference:
Form E: grip uncoated, smooth sleeve
Form F: grip powder-coated, smooth sleeve

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



Material:
Handle stainless steel 1.4308.
Indexing pin stainless steel 1.4305.
Sleeve stainless steel 1.4301.

Version:
Bright.
Indexing pin ground, not hardened.

Sample order:
K0640.1081220

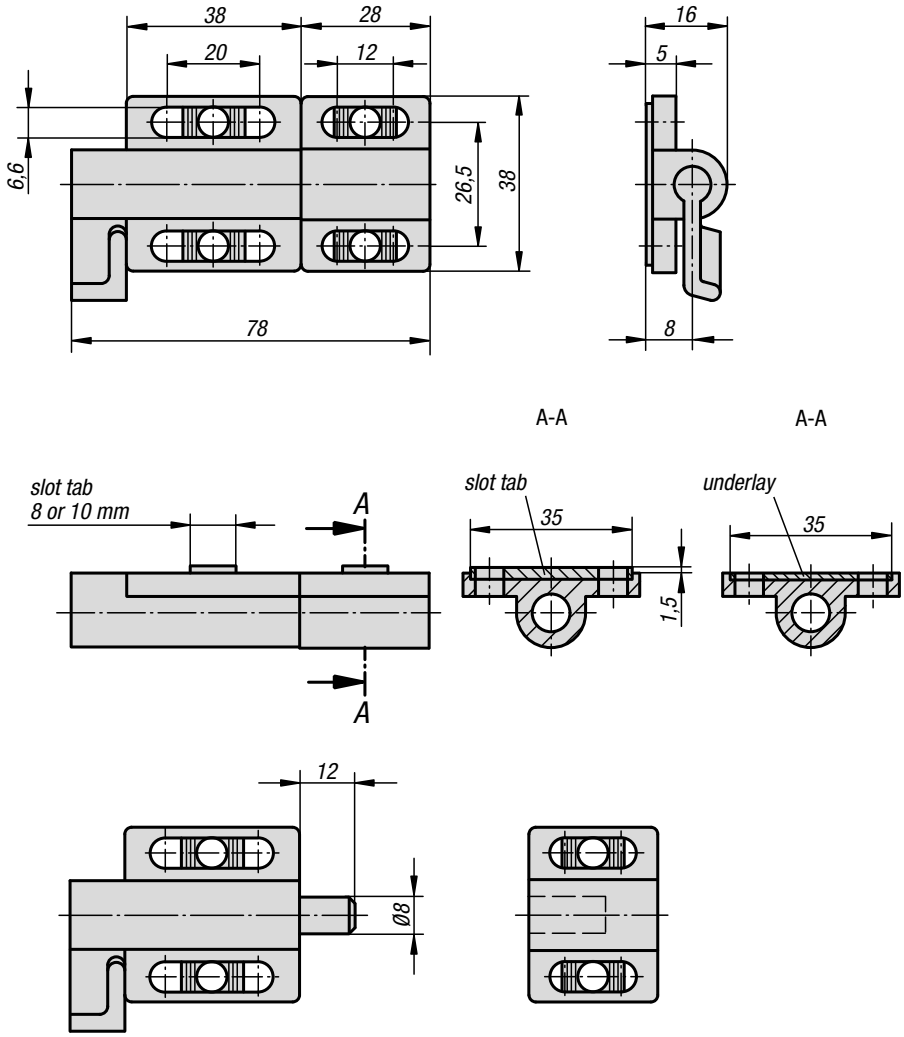
Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.
A notch ensures that the handle remains in this position.

Drawing reference:
Form E: grip uncoated, smooth sleeve

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

Barrel locks with return spring steel or brass

bevel up or down

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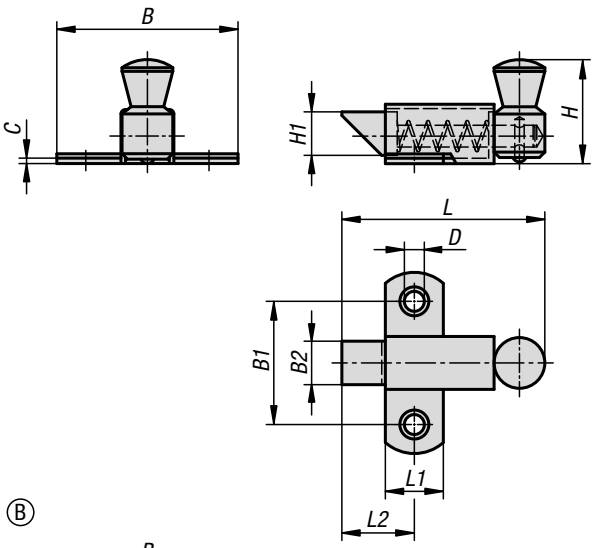

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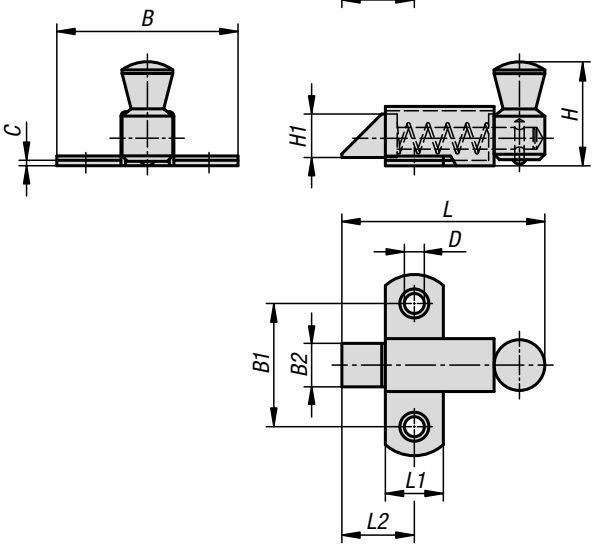


Material:
Steel or brass.

Version:
Steel zinc-plated.
Brass chromed.

Sample order:
K1668.056500

Note:
Barrel locks with return spring can be easily screwed onto doors, hatches and hoods. These locks are available in two different variants: bevelled upward or bevelled downward. The bevelled surface allows the application to be closed or opened without actuating the grip. The integrated return spring always brings the grip back to its original position.

Method of operation:
When the grip is pushed, the barrel moves into the open position and the door can be opened. When the door is pushed to, it is locked automatically by the bevel.

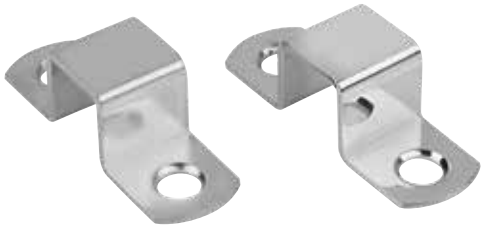
Accessories:
Locking plate steel or brass K1669.

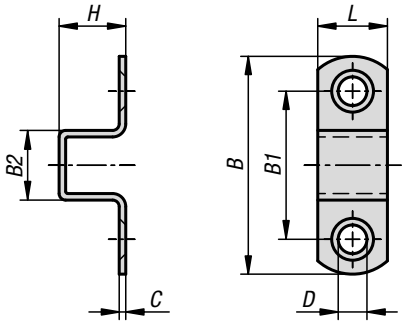
KIPP Barrel locks with return spring steel or brass

Order No. steel	Order No. brass	Form	Form-Type	B	B1	B2	C	D	H	H1	L	L1	L2
K1668.036350	**K1668.036351**	A	bevel up	35	23	8	1,2	3,5	19	8	36,5	11	13,5
K1668.056500	**K1668.056501**	A	bevel up	50	34	12	1,5	4,8	29,5	12	56	16	19
K1668.073700	**K1668.073701**	A	bevel up	70	45	16	2	7	38	16	73	22	28
K1668.136350	**K1668.136351**	B	bevel down	35	23	8	1,2	3,5	19	8	36,5	11	13,5
K1668.156500	**K1668.156501**	B	bevel down	50	34	12	1,5	4,8	29,5	12	56	16	19
K1668.173700	**K1668.173701**	B	bevel down	70	45	16	2	7	38	16	73	22	28

Catch plates steel or brass

for barrel locks with return spring





Material:
Steel or brass.

Version:
Steel zinc-plated.
Brass chromed.

Sample order:
K1669.16500

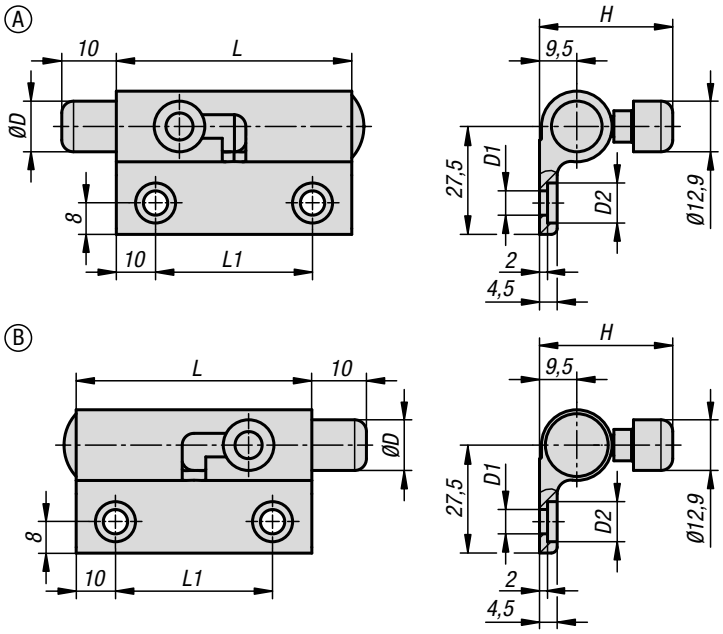
Note:
The catch plates can be simply screwed onto the application.

KIPP Catch plates steel or brass, for lock grip with return spring

Order No. steel	Order No. brass	B	B1	B2	C	D	H	L
K1669.11350	**K1669.11351**	35	23	11,5	1,2	3,5	11,5	11
K1669.16500	**K1669.16501**	50	34	16	1,5	4,8	16	16
K1669.22680	**K1669.22651**	68,5	43,5	21	2	7	21	22

Barrel locks with return spring aluminium

grip to left or right



Material:
Barrel lock aluminium.
Spring stainless steel.

Sample order:
K1691.04036

Note:
Barrel locks with return spring can be easily screwed onto doors, hatches and hoods. These locks are available in two different variants for left-opening and right-opening doors. The barrel can be latched in the open position. The integrated return spring always brings the grip back to its original position.

Method of operation:
When the grip is pushed, the barrel moves into the open position and the door can be opened. If the barrel is not latched in open position, it returns automatically to its original position. The door can be closed only if the grip is held in the open position.

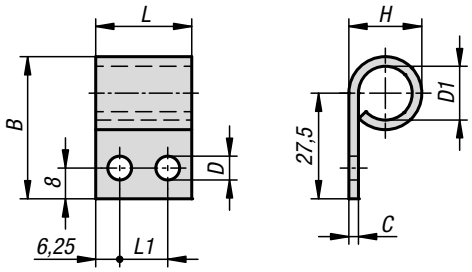
Accessories:
Locking plate aluminium K1692.

KIPP Barrel locks with return spring aluminium

Order No.	Form	Form-Type	B	D	D1	D2	H	L	L1
K1691.04036	A	left	36,5	12,9	6,2	10,2	34	60	40
K1691.14036	B	right	36,5	12,9	6,2	10,2	34	60	40

Catch plates aluminium

for barrel locks with return spring



Material:
Aluminium.

Sample order:
K1692.2537

Note:
The catch plates can be simply screwed onto the application.

KIPP Catch plate aluminium, for barrel locks with return spring

Order No.	B	C	D	D1	H	L	L1
K1692.2537	37	2,5	6,2	14	19	25	12,5

Barrel locks with return spring stainless steel

lock grip upward or downward

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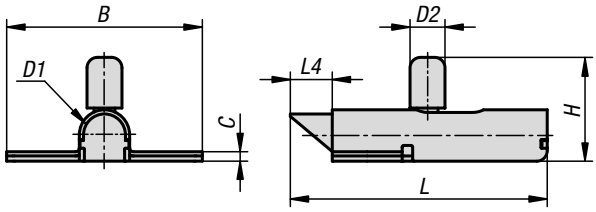

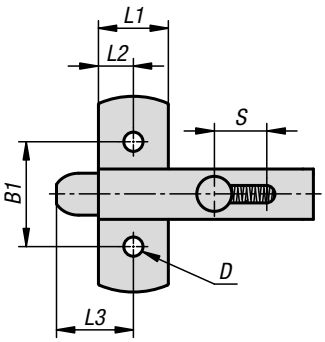

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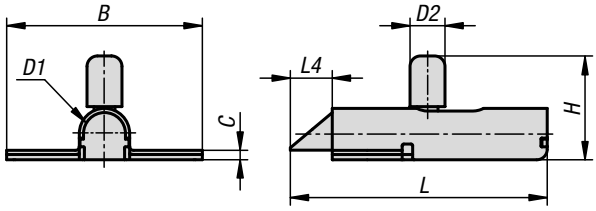

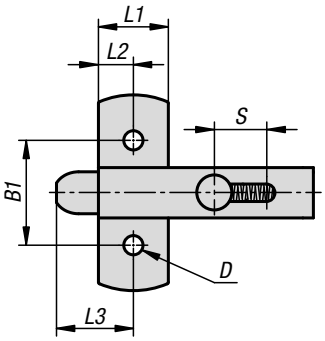

Material:
Stainless steel

Sample order:
K1693.07356

Note:
Barrel locks with return spring can be easily screwed onto doors, hatches and hoods. These locks are available in two different variants: bevelled upward or bevelled downward. The bevelled surface allows the application to be closed or opened without actuating the grip. The integrated return spring always brings the grip back to its original position.

Method of operation:
When the grip is pushed, the barrel moves into the open position and the door can be opened. When the door is pushed to, it is locked automatically by the bevel.

KIPP Barrel locks with return spring stainless steel

Order No.	Form	Form-Type	B	B1	C	D	D1	D2	H	Travel S	L	L1	L2	L3	L4
K1693.07356	A	bevel up	56	30	2,7	5,5	12	10	29,7	13	73,5	20	10	22	12
K1693.17356	B	bevel down	56	30	2,7	5,5	12	10	29,7	13	73,5	20	10	22	12

Notes

Ball lock pins

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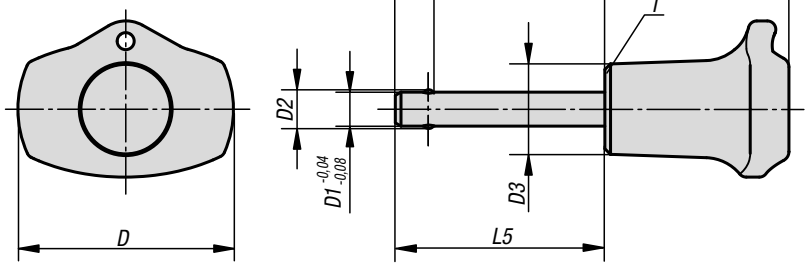

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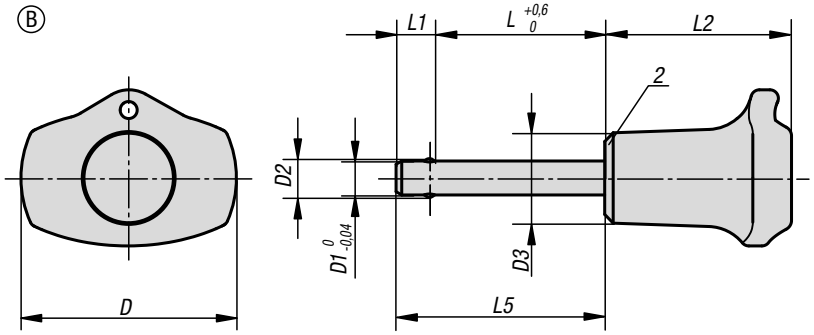


Drawing reference:
1) Metal collar
2) Plastic collar

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 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.
Form A is suitable for applications where high demands and precision are required.

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

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

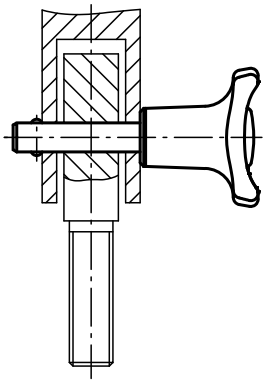
The load values have been calculated in accordance with DIN 50141. Each user must determine individually whether the ball lock pin is suitable for the respective application.

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

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

Ball lock pins



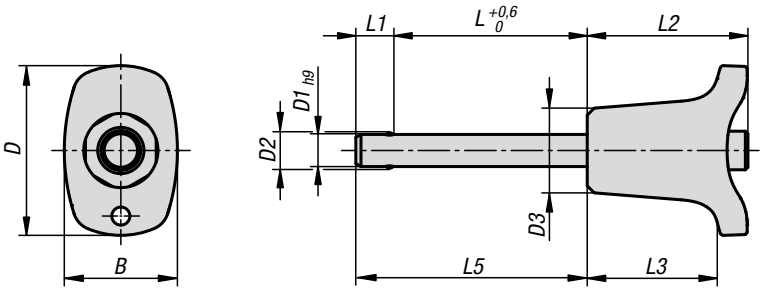
KIPP Ball lock pins, Form A, metal collar

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, 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



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 grey 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 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. When the push button is released, the balls lock the connection securely. If required, the ball lock pins can be fitted with a retaining cable.

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

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

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

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

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

Ball lock pins

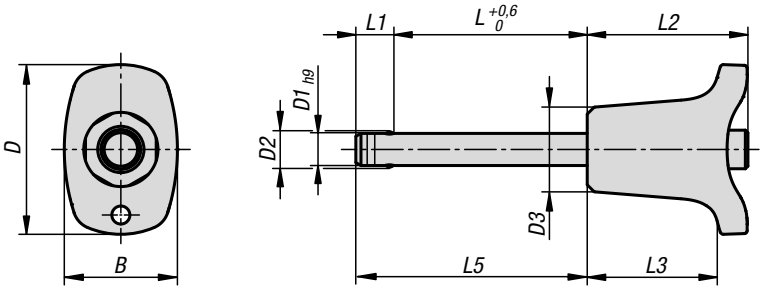
KIPP Ball lock pins

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 RAL 3020	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 grey 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 easy fastening or joining of components.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. When the push button is released, the balls lock the connection securely.

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

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

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

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

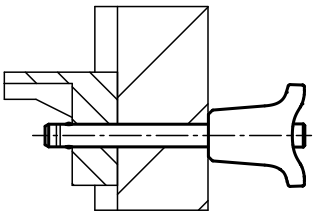
Ball lock pins with high shear strength are identified by a groove marking on the pin.

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

Ball lock pins

with high shear strength



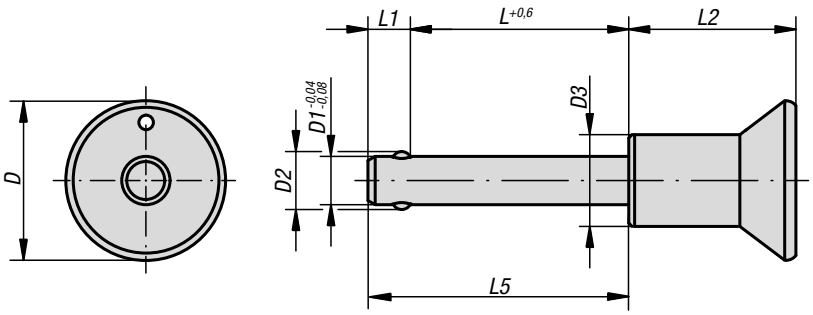
KIPP Ball lock pins with high shear strength

Order No. black	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving 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 RAL 3020	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving 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

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 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.
Corrosion resistant. Option for connecting retaining cable.

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

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

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

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

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

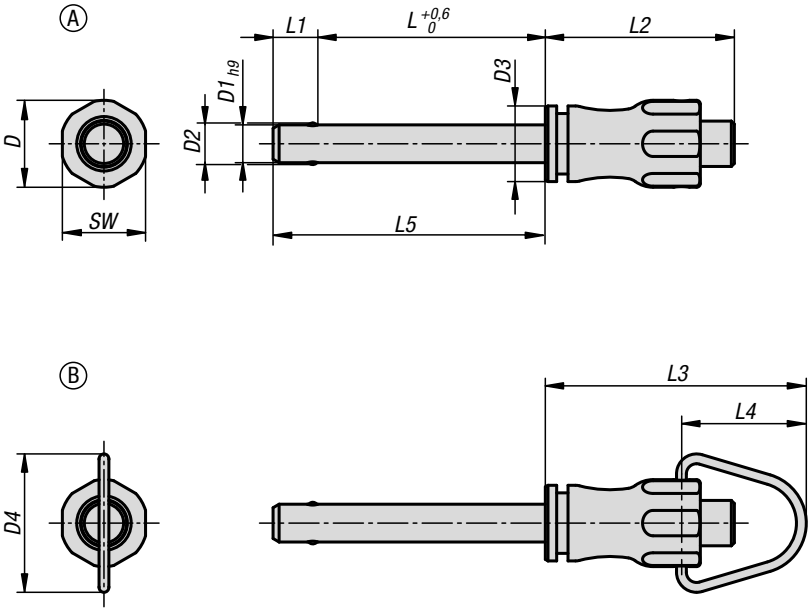
KIPP Ball lock pins, stainless steel

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

Notes

Ball lock pins

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

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

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

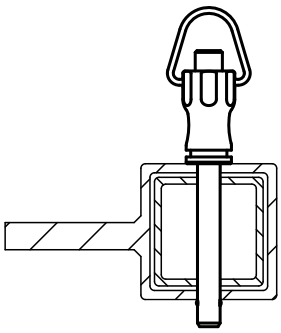
The load values have been calculated in accordance with DIN 50141. Each user must determine individually whether the ball lock pin is suitable for the respective application.

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

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

Ball lock pins

stainless steel



KIPP Ball lock pins, in stainless steel, Form A

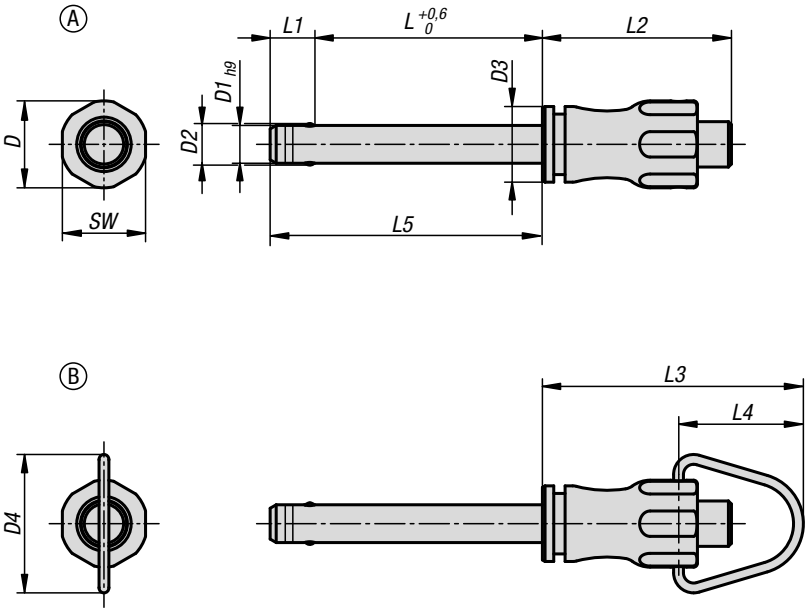
Order No. Form A	D	D1	D2	D3	L	L1	L2	L5	SW	Receiving hole H11	Shearing force double shear max.kN
K0790.001205* **	11,5	5	5,5	10	10/15/20/25/30	5,9	25	15,9/20,9/25,9/30,9/35,9	11	5	15
K0790.001206* **	11,5	6	6,85	10	10/15/20/25/30/35/40/45/50	6,8	25	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	11	6	22
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, 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 easy fastening or joining of components.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. When the push button is released, the balls lock the connection securely.

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

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

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

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

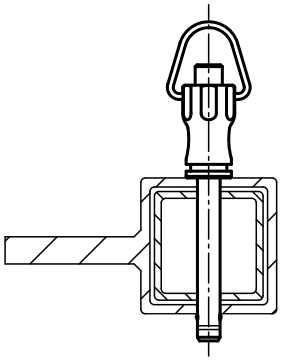
Ball lock pins with high shear strength are identified by a groove marking on the pin.

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

Ball lock pins, stainless steel

with high shear strength



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

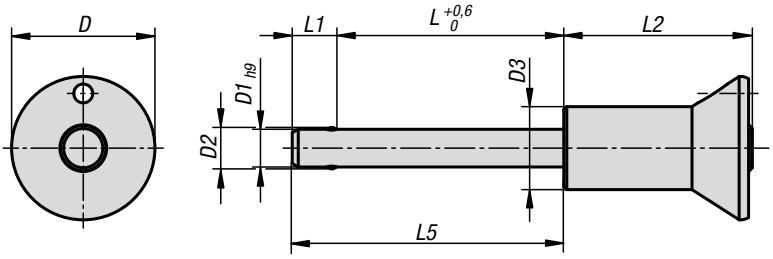
Order No. Form A	D	D1	D2	D3	L	L1	L2	L5	SW	Receiving hole H11	Shearing force double shear max.kN
K0790.011205* **	11,5	5	5,5	10	10/15/20/25/30	5,9	25	15,9/20,9/25,9/30,9/35,9	11	5	24
K0790.011206* **	11,5	6	6,85	10	10/15/20/25/30/35/40/45/50	6,8	25	16,8/21,8/26,8/31,8/36,8/41,8/46,8/51,8/56,8	11	6	35
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	Receiving 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

stainless steel



Material:
Mushroom knob and push button stainless steel 1.4305.
Pin stainless steel 1.4305.
Balls stainless teel 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 easy fastening or joining of components.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. When the push button is released, the balls lock the connection securely.

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

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

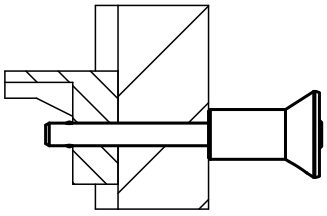
The load values have been calculated in accordance with DIN 50141. Each user must determine individually whether the ball lock pin is suitable for the respective application.

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

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

Ball lock pins with mushroom grip

stainless steel

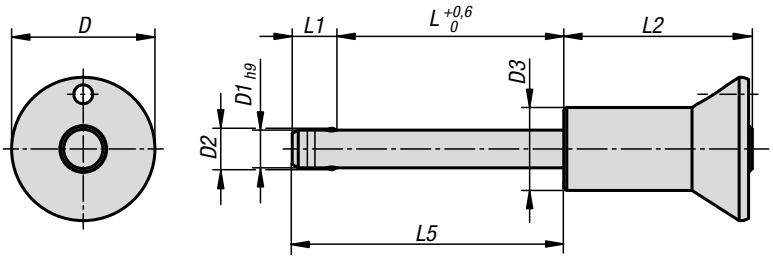


KIPP Ball lock pins with mushroom grip, stainless steel

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

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

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

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

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

Ball lock pins with high shear strength are identified by a groove marking 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

Ball lock pins with mushroom grip

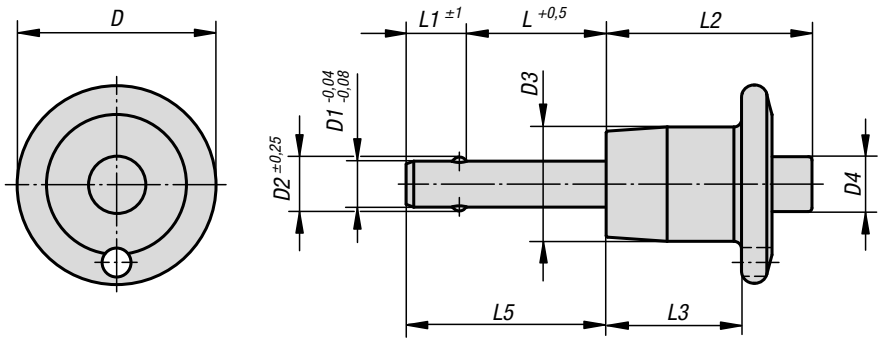
stainless steel, with high shear strength

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

Order No.	D	D1	D2	D3	L	L1	L2	L5	Receiving 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 grip

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 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. When the push button is released, the balls lock the connection securely. If required, the ball lock pins can be fitted with a retaining cable.

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

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

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

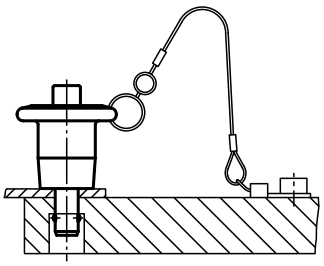
Different materials in which the ball lock pins are used, weather conditions and wear can influence the determined values.

The ball lock pins with pin diameters 5 and 6 mm have a collar between the pin and grip.

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

Ball lock pins with mushroom grip

stainless steel

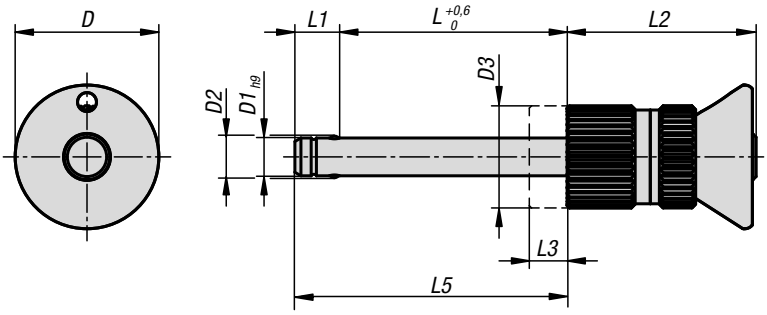


KIPP Ball lock pins with mushroom grip, stainless steel

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

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

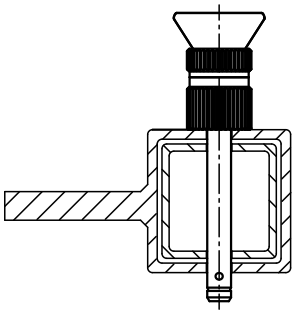
The values given for the shear force are the theoretical breaking load.
These are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

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

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

Ball lock pins with high shear strength are identified by a groove marking 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

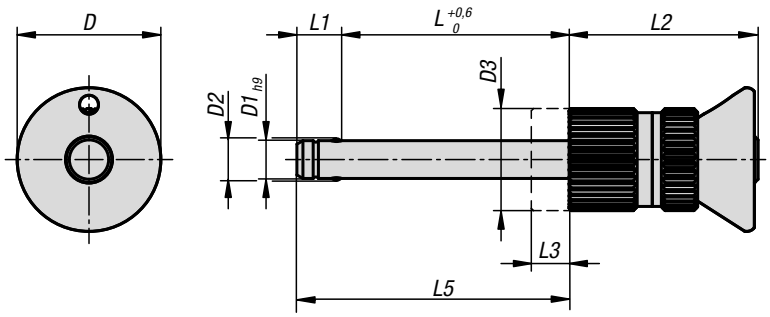
stainless steel, with high shear strength, adjustable

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

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

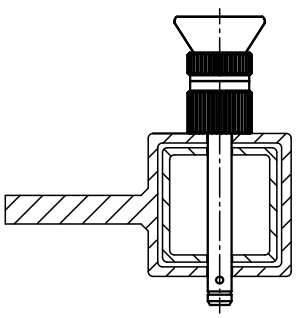
Note:
Ball lock pins are used for easy fastening or joining of components or workpieces.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. When the push button is released, the balls lock the connection securely.
The length range is infinitely adjustable using the locknut and adjusting nut. This enables play-free positioning on the workpiece.

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

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

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

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



Ball lock pins with mushroom grip

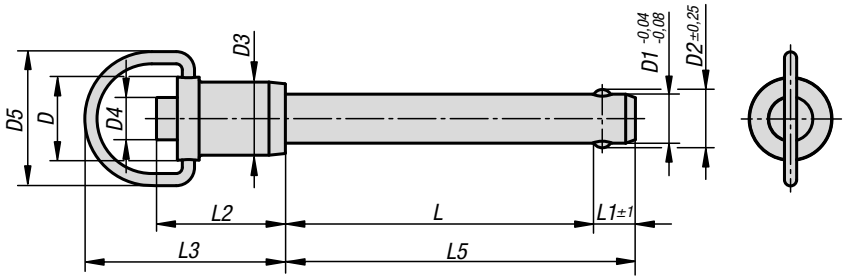
stainless steel, adjustable

KIPP Ball lock pins with mushroom grip, 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

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 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. If required, the ball lock pins can be fitted with a retaining cable.

The hardened, high-tensile stainless steel pin permits extreme loads with low wear. Thanks to the high corrosion and acid resistance, they are mainly used in the foodstuff industry, in the chemical and petrochemical industry and as constructional elements in the aerospace industry.

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

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

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

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

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

Ball lock pins with grip ring

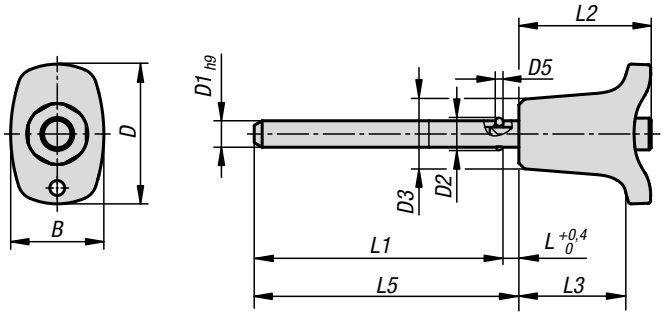
stainless steel

KIPP Ball lock pins with grip ring, stainless steel

Order No.	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L5	Receiving 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 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 grey.
Stainless steel bright.

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

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

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

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

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

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

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

On request:
Other pin lengths.

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

Ball lock pins

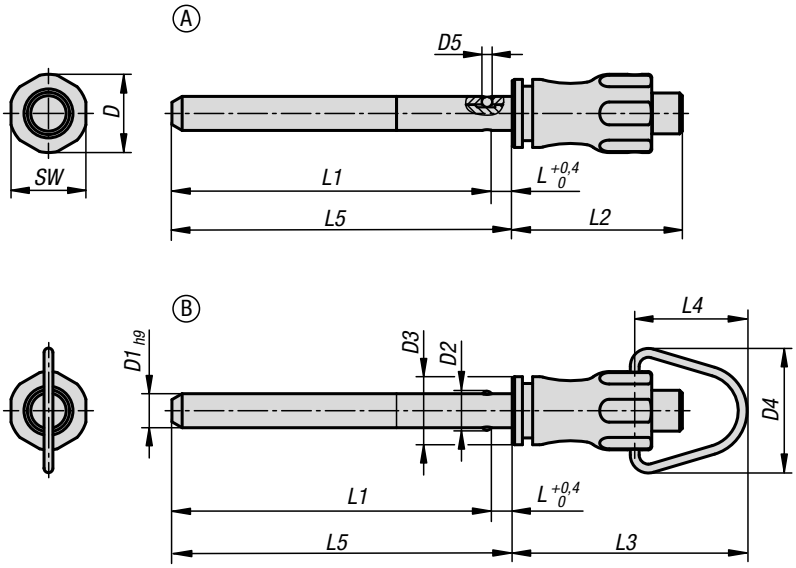
stainless steel, with headend lock

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

Order No.	B	D	D1	D2	D3	D5	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K1415.002605* **	17,6	26,4	5	5,5	13,2	1,5	3	47/97/147	25	20,2	50/100/150	5	10
K1415.002606* **	17,6	26,4	6	6,85	13,2	2	3	47/97/147	25	20,2	50/100/150	6	14
K1415.003308* **	23	33,2	8	9,5	17,3	3	3,5	96,5/146,5/196,5	33	26,1	100/150/200	8	26
K1415.003310* **	23	33,2	10	12	17,3	4	3,5	96,5/146,5/196,5	33	26,1	100/150/200	10	40
K1415.004612* **	33	45,9	12	14,5	26,3	4,5	3,5	146,5/196,5/246,5	39,5	31,3	150/200/250	12	57
K1415.004616* **	33	45,9	16	19	26,3	6,5	4	146/196/246	39,5	31,3	150/200/250	16	100

Ball lock pins

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

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

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

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

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

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

On request:
Other pin lengths.

Accessories:
Adapter bushes for ball lock pins with head lock K1416.
For Form B:
Safety spiral cable K0367
Retaining cable with eyelet K0367
Key ring K0367

Ball lock pins

stainless steel, with headend lock

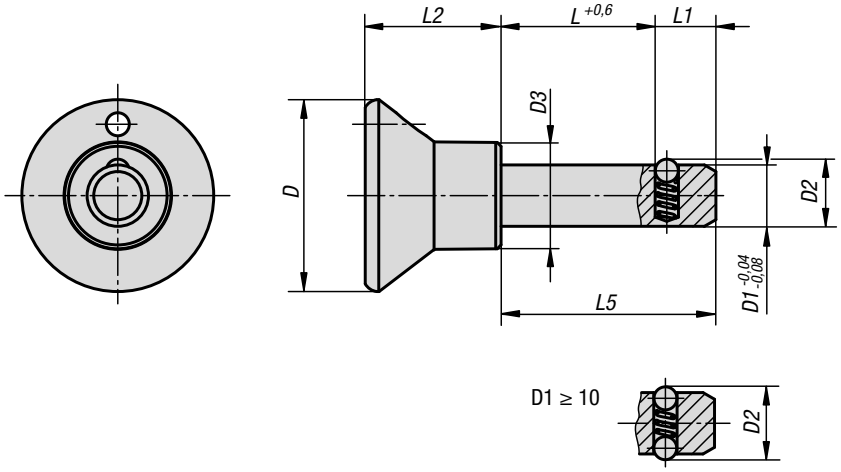
KIPP Ball lock pins stainless steel, with head-end lock, Form A

Order No.	Form	D	D1	D2	D3	D5	L	L1	L2	L5	SW	Receiving hole H11	Shearing force double shear max.kN
K1414.001205050* **	A	11,5	5	5,5	10	1,5	3	47/97/147	25	50/100/150	11	5	10
K1414.001206050* **	A	11,5	6	6,85	10	2	3	47/97/147	25	50/100/150	11	6	14
K1414.001508100* **	A	15,5	8	9,5	13,5	3	3,5	96,5/146,5/196,5	33	100/150/200	15	8	26
K1414.001510100* **	A	15,5	10	12	13,5	4	3,5	96,5/146,5/196,5	33	100/150/200	15	10	40
K1414.002112150* **	A	22	12	14,5	20	4,5	3,5	146,5/196,5/246,5	39,5	150/200/250	21	12	57
K1414.002116150* **	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	Receiving hole H11	Shearing force double shear max.kN
K1414.101205050* **	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
K1414.101206050* **	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
K1414.101508100* **	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
K1414.101510100* **	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
K1414.102112150* **	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
K1414.102116150* **	B	22	16	19	20	33	6,5	4	146/196/246	39,5	59,3	30,3	150/200/250	21	16	100

Locking pins



Material:
Grip thermoplastic.
Steel parts stainless steel.

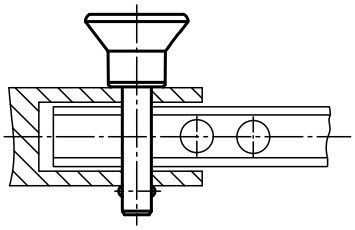
Version:
Grip black.
Stainless steel bright.

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

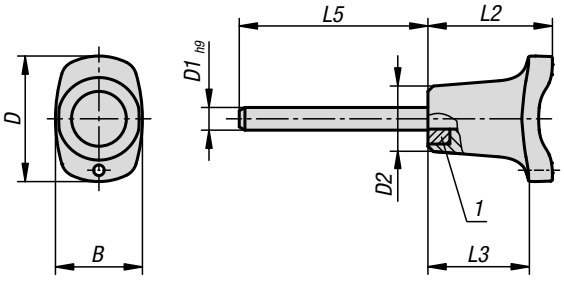


KIPP Locking pins

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 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.

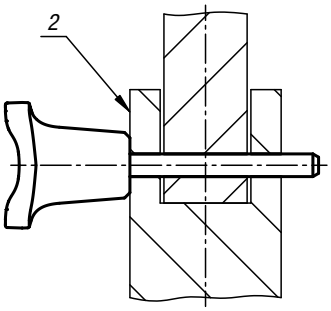
Optional retainer systems can be used to make the locking pins captive.

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....

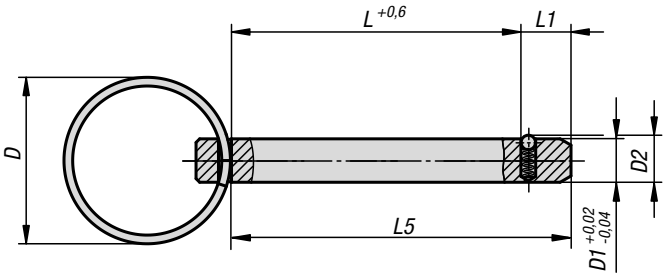
Drawing reference:
1) Magnet
2) Steel part/workpiece



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 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.

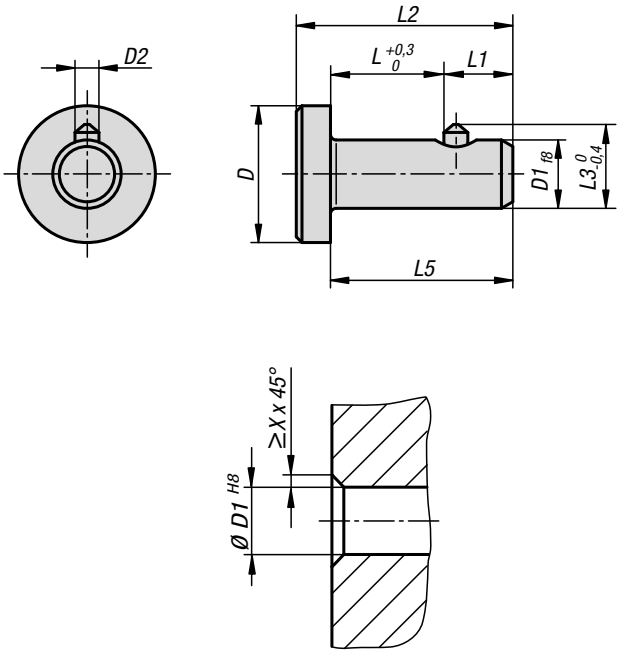
Shearing force double shear (F) = S · τ aB max.

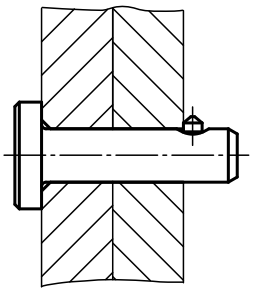
The locking pins with key ring represent a cost-effective alternative to other locking pins.

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 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.

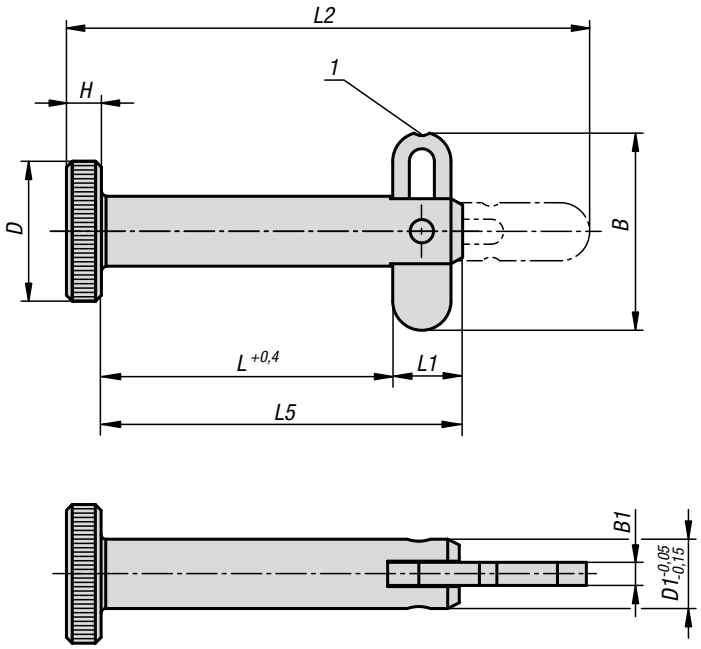
Assembly:
Observe the assembly aid dimension X in the workpiece.

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

Locking pins with folding latch

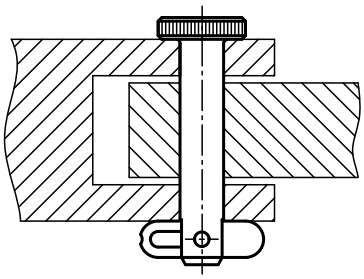


Material:
Steel electro zinc-plated.

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



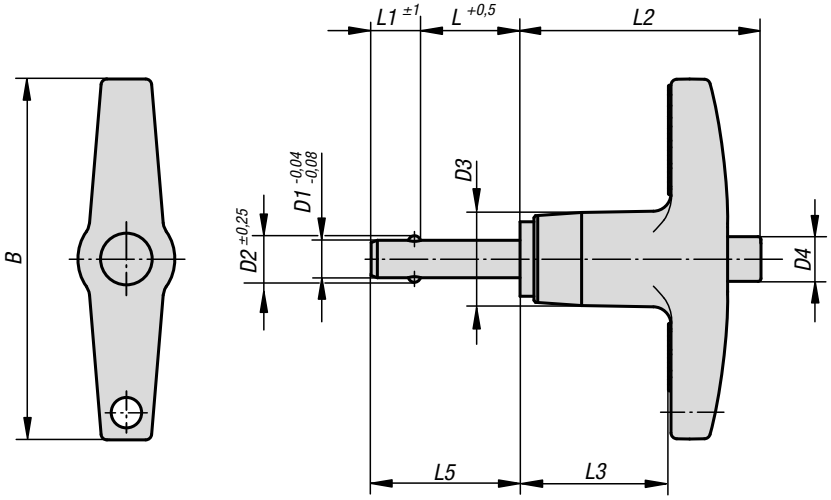
KIPP Locking pins with folding latch

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

Notes

Ball lock pins

with T-grip



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 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. If required, the ball lock pins can be fitted with a retaining cable.

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

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

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

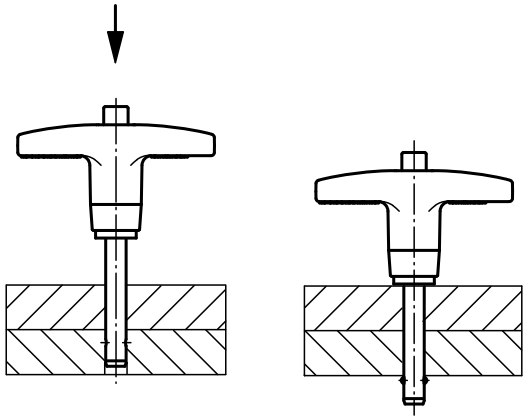
The load values have been calculated in accordance with DIN 50141. Each user must determine individually whether the ball lock pin is suitable for the respective application.

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

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

Ball lock pins

with T-grip

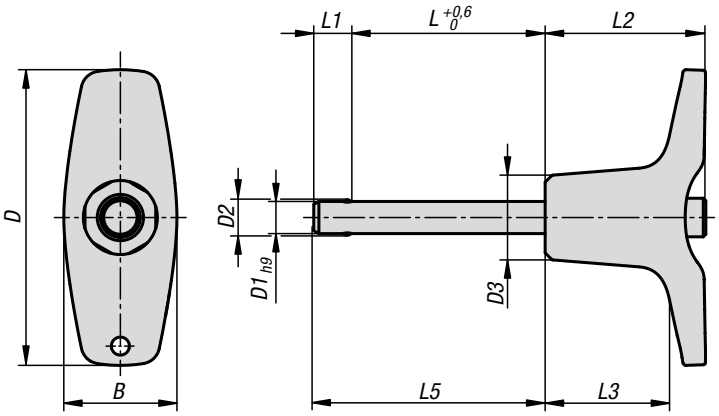


KIPP Ball lock pins with T-grip

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



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 grey 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 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. When the push button is released, the balls lock the connection securely. If required, the ball lock pins can be fitted with a retaining cable.

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

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

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

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

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

Ball lock pins

with T-grip

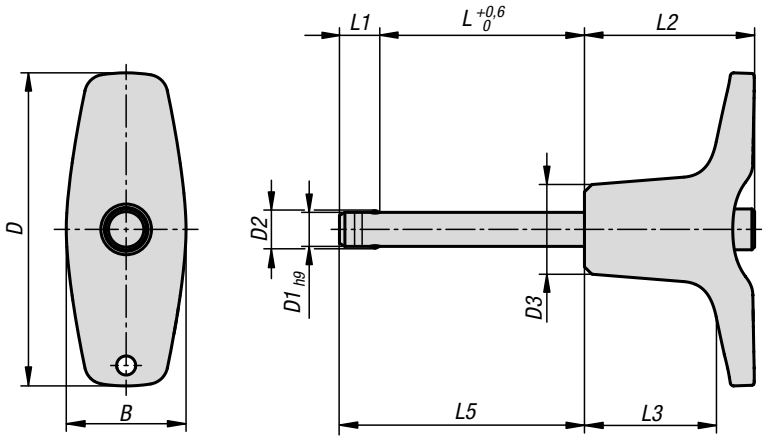
KIPP Ball lock pins with T-grip

Order No. black	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving 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 RAL 3020	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving 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 grey 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 easy fastening or joining of components.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. When the push button is released, the balls lock the connection securely.

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

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

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

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

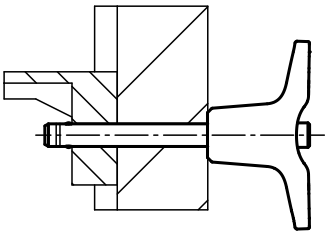
Ball lock pins with high shear strength are identified by a groove marking on the pin.

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

Ball lock pins with T-grip

with high shear strength



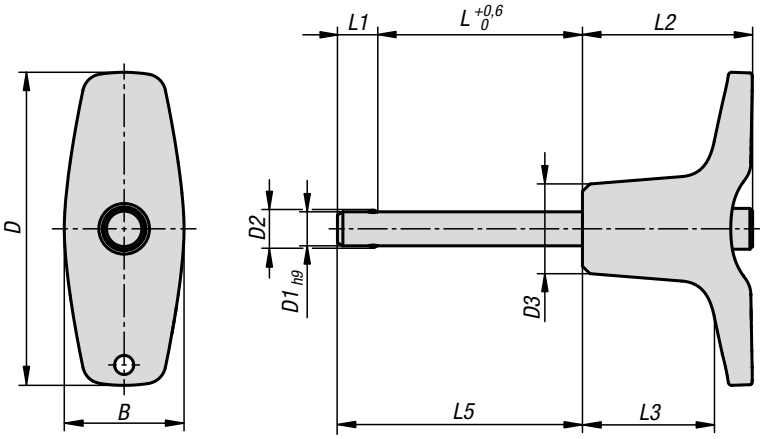
KIPP Ball lock pins with T-grip with high shear strength

Order No. black	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving 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 RAL 3020	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving 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



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 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. When the push button is released, the balls lock the connection securely. If required, the ball lock pins can be fitted with a retaining cable.

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

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

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

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

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

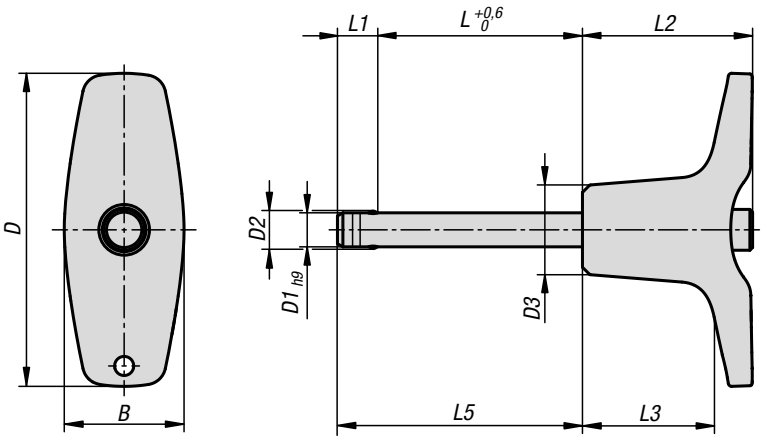
KIPP Ball lock pins with T-grip

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

Notes

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

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

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

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

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

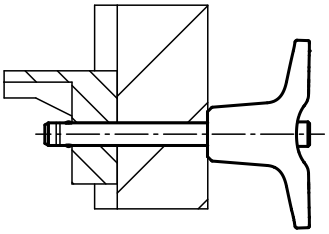
Ball lock pins with high shear strength are identified by a groove marking on the pin.

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

Ball lock pins with T-grip

with high shear strength

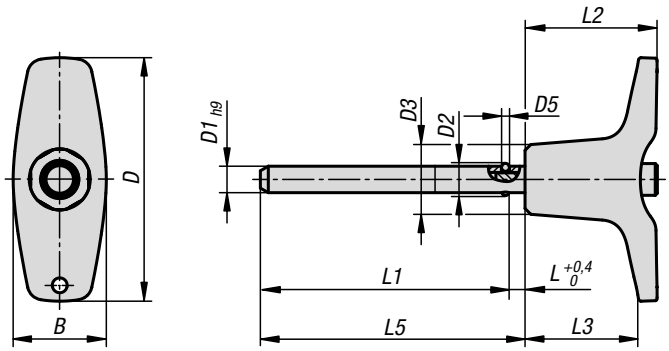


KIPP Ball lock pins with T-grip with high shear strength

Order No.	B	D	D1	D2	D3	L	L1	L2	L3	L5	Receiving 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 grey.
Stainless steel bright.

Sample order:
K1415.204605050
(include length L e.g. 050 for L = 50 mm)

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

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

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

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

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

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

On request:
Other pin lengths.

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

Ball lock pins with T-grip

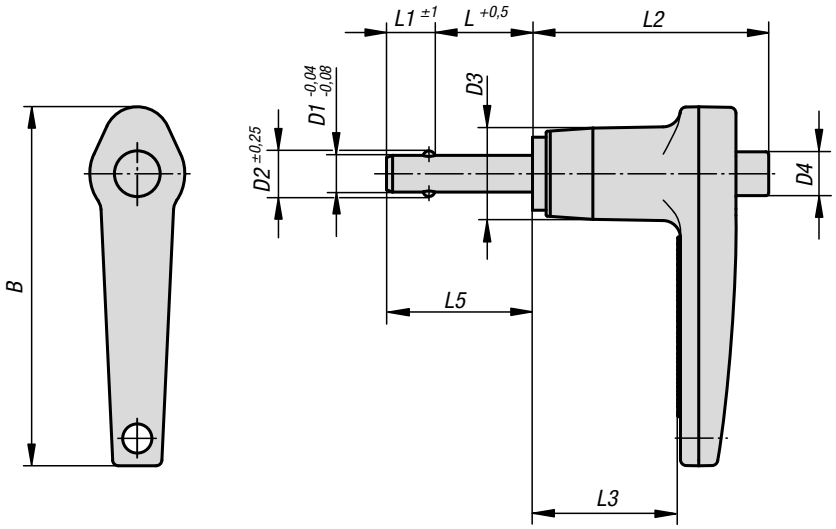
stainless steel, with head-end lock

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
K1415.204605* **	17,6	46	5	5,5	13,2	1,5	3	47/97/147	25	19,4	50/100/150	5	10
K1415.204606* **	17,6	46	6	6,85	13,2	2	3	47/97/147	25	19,4	50/100/150	6	14
K1415.206308* **	23	62,9	8	9,5	17,3	3	3,5	96,5/146,5/196,5	33	24,4	100/150/200	8	26
K1415.206310* **	23	62,9	10	12	17,3	4	3,5	96,5/146,5/196,5	33	24,4	100/150/200	10	40
K1415.208212* **	33	81,8	12	14,5	26,3	4,5	3,5	146,5/196,5/246,5	39,5	28,8	150/200/250	12	57
K1415.208216* **	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



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 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. If required, the ball lock pins can be fitted with a retaining cable.

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

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

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

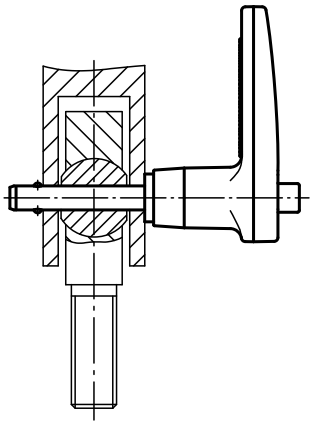
The load values have been calculated in accordance with DIN 50141. Each user must determine individually whether the ball lock pin is suitable for the respective application.

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

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

Ball lock pins

with L-grip

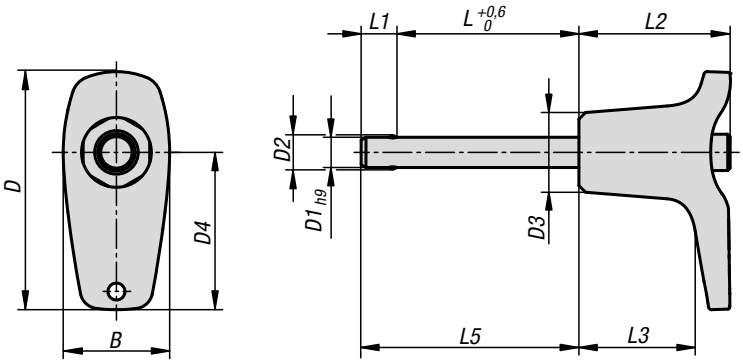


KIPP Ball lock pins with L-grip

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



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 grey 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 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. When the push button is released, the balls lock the connection securely. If required, the ball lock pins can be fitted with a retaining cable.

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

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

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

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

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

Ball lock pins

with L-grip

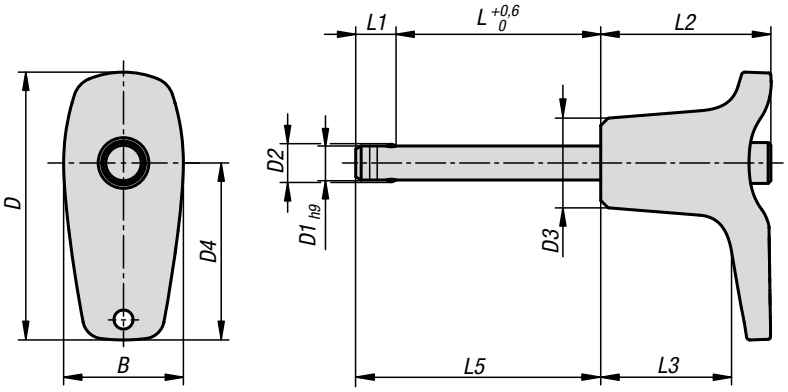
KIPP Ball lock pins with L-grip

Order No. black	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiving 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 RAL 3020	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiving 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 grey 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 easy fastening or joining of components.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. When the push button is released, the balls lock the connection securely.

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

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

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

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

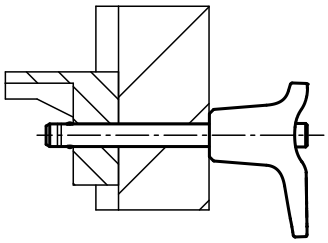
Ball lock pins with high shear strength are identified by a groove marking on the pin.

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

Ball lock pins with L-grip

with high shear strength



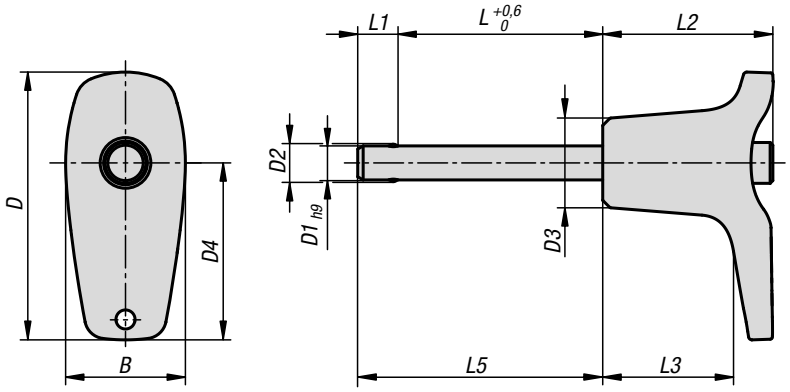
KIPP Ball lock pins with L-grip with high shear strength

Order No. black	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiving 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 RAL 3020	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiving 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



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 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. When the push button is released, the balls lock the connection securely. If required, the ball lock pins can be fitted with a retaining cable.

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

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

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

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

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

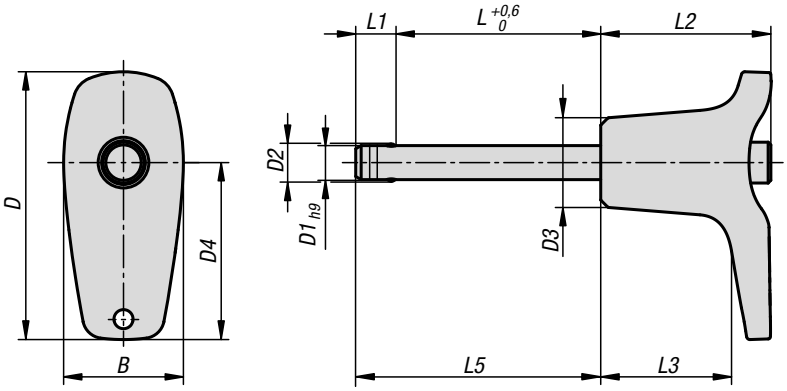
KIPP Ball lock pins with L-grip

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

Notes

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

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

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

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

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

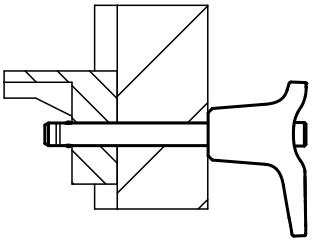
Ball lock pins with high shear strength are identified by a groove marking on the pin.

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

Ball lock pins with L-grip

with high shear strength

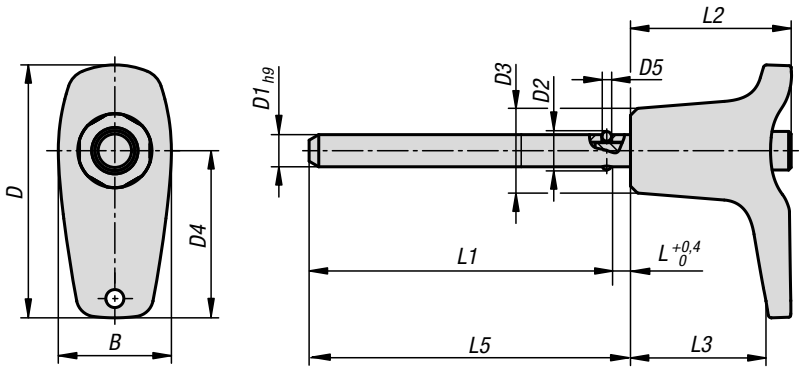


KIPP Ball lock pins with L-grip with high shear strength

Order No.	B	D	D1	D2	D3	D4	L	L1	L2	L3	L5	Receiving 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 grey.
Stainless steel bright.

Sample order:
K1415.102605050
(include length L e.g. 050 for L = 50 mm)

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

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

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

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

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

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

On request:
Other pin lengths.

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

Ball lock pins with L-grip

stainless steel, with head-end lock

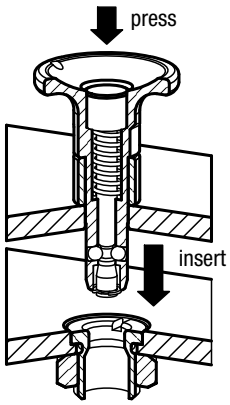
KIPP Ball lock pins stainless steel with L-grip, with head-end lock

Order No.	B	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L5	Receiving hole H11	Shearing force double shear max.kN
K1415.102605* **	17,6	39,3	5	5,5	13,2	26	1,5	3	47/97/147	25	19,2	50/100/150	5	10
K1415.102606* **	17,6	39,3	6	6,85	13,2	26	2	3	47/97/147	25	19,2	50/100/150	6	14
K1415.103508* **	23	52,2	8	9,5	17,3	35,4	3	3,5	96,5/146,5/196,5	33	24,2	100/150/200	8	26
K1415.103510* **	23	52,2	10	12	17,3	35,4	4	3,5	96,5/146,5/196,5	33	24,2	100/150/200	10	40
K1415.104712* **	33	70,2	12	14,5	26,3	47	4,5	3,5	146,5/196,5/246,5	39,5	28,4	150/200/250	12	57
K1415.104716* **	33	70,2	16	19	26,3	47	6,5	4	146/196/246	39,5	28,4	150/200/250	16	100

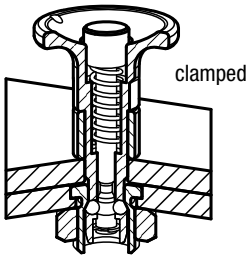
Technical information for ball lock pins K1063, K1064 and locating bushes K1065

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.

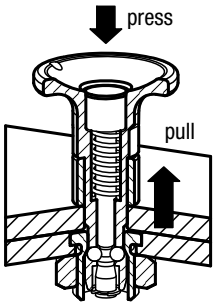
Repeat accuracy of ± 0.25 for screwed-in and pushed-in version.
The repeat accuracy can be increased with the aid of additional locating pins.



With the knob pressed down, insert the ball lock pin into the locating bush.



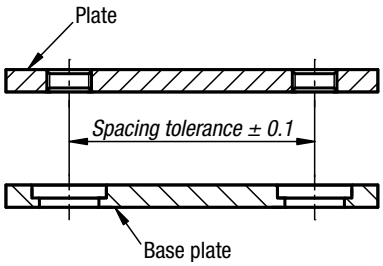
Release the knob to clamp the plates.



To remove, press the knob down and pull the ball lock pin out of the bush.

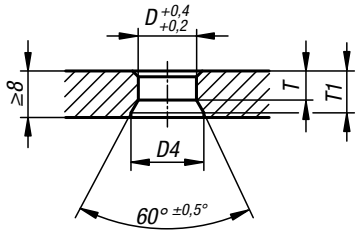
Assembly:
The mounting situation is customer specific. Plates of different thicknesses can be joined. The different mounting options form A to D are described on the product pages.

Recommended tolerances when using 2 items



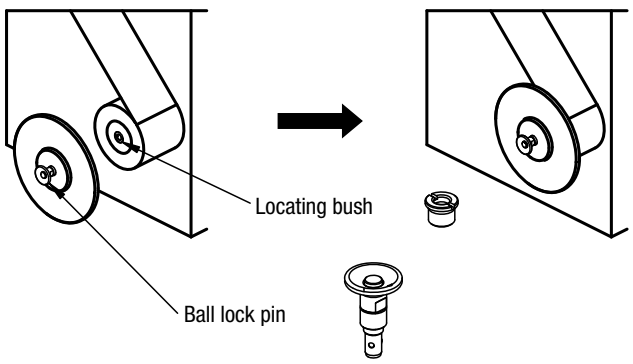
Application without locating bush
Installation dimensions

Attention:
The specified pullout forces only apply in conjunction with locating bush K1065.

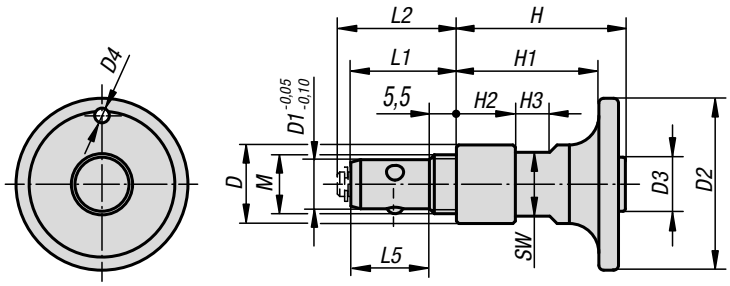


For ball lock pin D =	D	D4 min.	T	T1
6	6	8	4,9	~6,6
10	10	12,5	5	~7,2

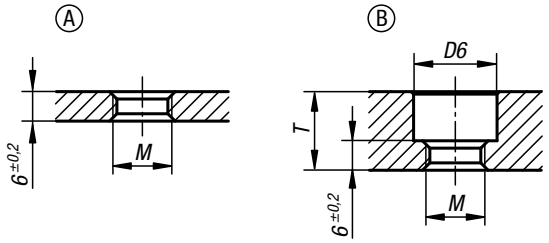
Application example:
Quick installation and removal of flange plates for paper rolls.



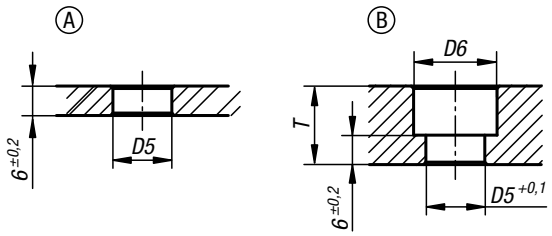
Ball lock pins



Screw-in ball lock pin



Push-in ball lock pin



Material:
Housing and push button steel.
Ball, spring and snap ring stainless steel.
O-ring FKM.

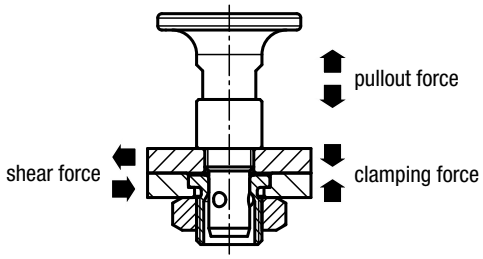
Version:
Housing nickel-plated.
Knob tempered and nickel-plated.
Ball tempered.

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.



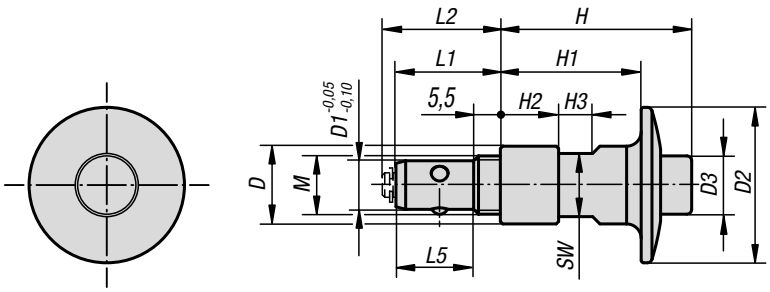
KIPP Ball lock pin

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

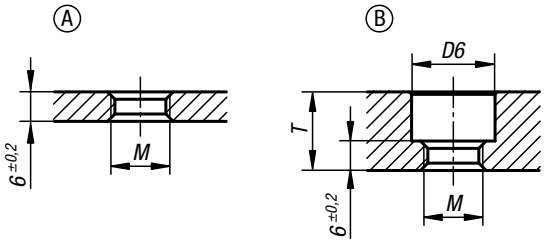
KIPP Ball lock pin, technical information

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

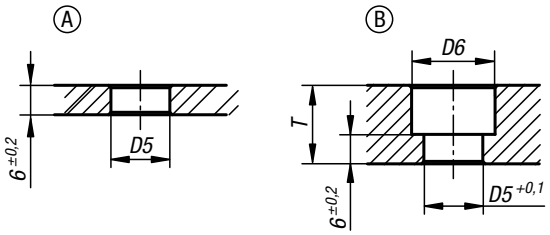
Ball lock pins stainless steel



Screw-in ball lock pin



Push-in ball lock pin



Material:
Housing and push button stainless steel.
Ball, spring and snap ring stainless steel.
O-ring FKM.

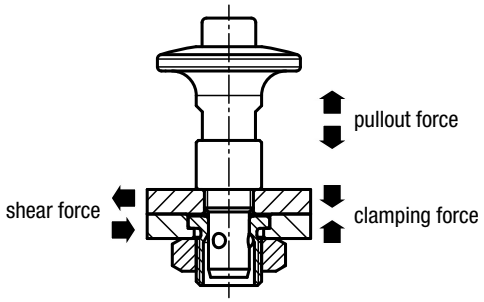
Version:
Housing bright.
Push button bright.
Ball tempered.

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.



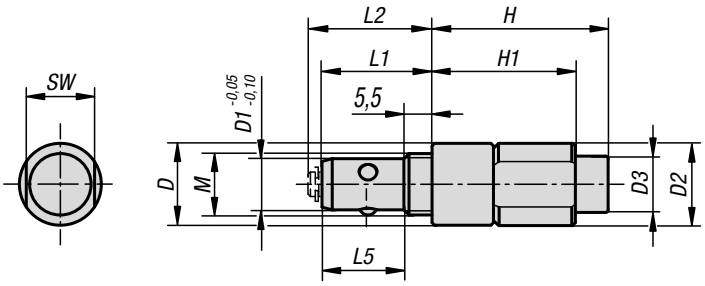
KIPP Ball lock pin stainless steel

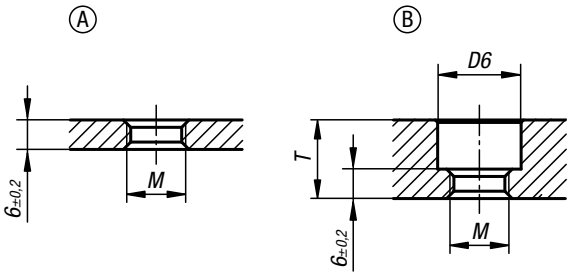
Order No.	D	D1	D2	D3	M	L1	L2	L5	H	H1	H2	H3	SW	D5	D6	T max.
K1063.6211	12	6	23	8	M8	19	21	13,5	25,8	18	6	5,5	10	8	13	10
K1063.10241	16	10	32	12	M12x1,5	21,5	23,5	16	39,4	29	12	7	13	12	17	16

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.

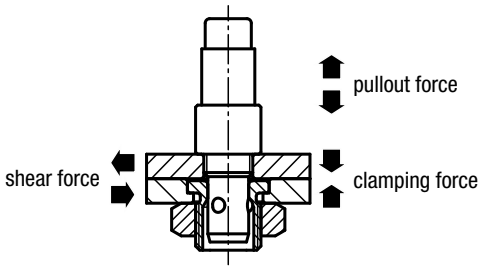
Version:
Housing nickel-plated or bright.
Knob tempered and nickel-plated.
Ball tempered.

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

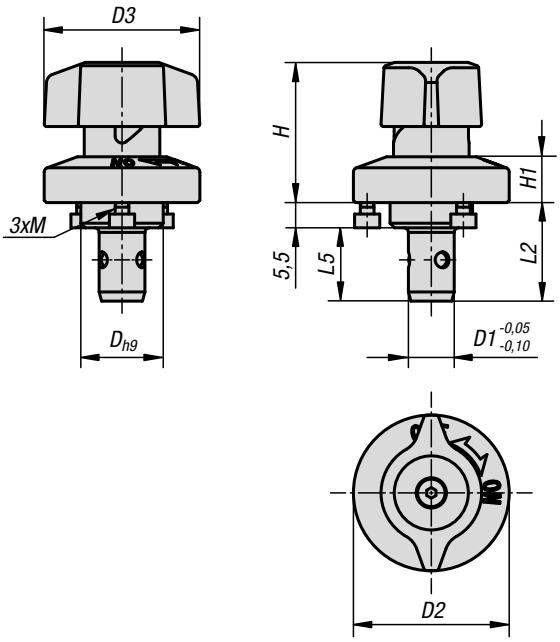
Order No.	Main material	D	D1	D2	D3	M	L2	L1	L5	H	H1	SW	D6	T max.
K1063.6212	steel	12	6	12	8	M8x1,25	21	19	13,5	22	17,5	10	13	10
K1063.10242	steel	16	10	16	11	M12x1,5	23,5	21,5	16	34,4	28	13	17	16
K1063.16212	stainless steel	12	6	12	8	M8x1,25	21	19	13,5	22	17,5	10	13	10
K1063.110242	stainless steel	16	10	16	11	M12x1,5	23,5	21,5	16	34,4	28	13	17	16

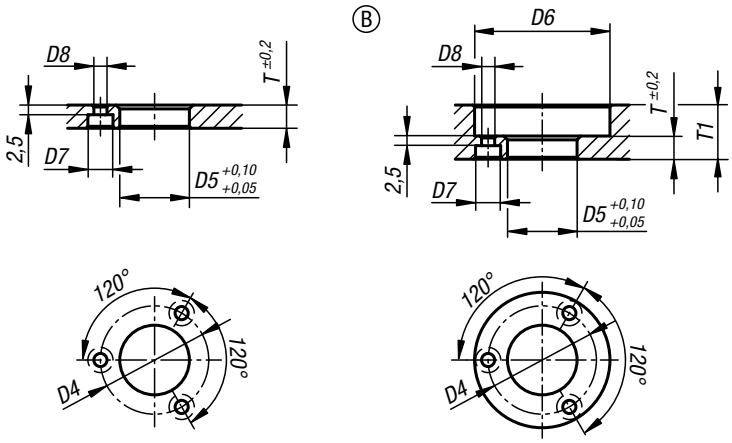
KIPP Ball lock pin without head, technical information

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 stainless steel.
Pin steel or stainless steel.
Knob PA thermoplastic (polyamide) or stainless steel.
Ball and spring stainless steel.

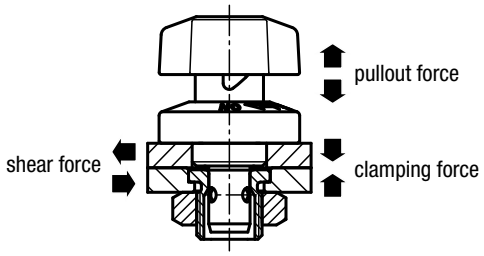
Version:
Housing bright. Steel pin tempered and nickel plated. Stainless steel pin tempered. Twist knob fibreglass reinforced, black or bright. Ball tempered.

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

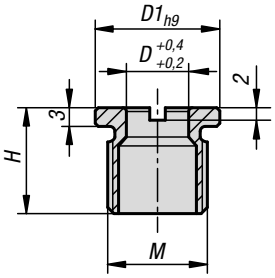
Order No.	Component material	Version 2	D	D1	D2	D3	D4	H	H1	L2	L5	M	D5	D6	D7	D8	T	T1
K1064.620	polyamide	pins steel	14	6	25	25	21	24,5	6,5	19,5	14	M2x3	14	26	4,4	2,4	6	6-10
K1064.1022	polyamide	pins steel	18	10	34	34	28	31	10	21,5	16	M3x4	18	35	6,5	3,4	6	6-14
K1064.1028	polyamide	pins steel	18	10	34	34	28	31	10	27,5	22	M3x4	18	35	6,5	3,4	12	12-20
K1064.1620	stainless steel	pin 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	pin 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	pin stainless steel	18	10	34	34	28	31	10	27,5	22	M3x4	18	35	6,5	3,4	12	12-20

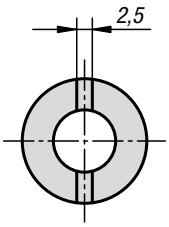
KIPP Ball lock pins with twist knob, technical information

Order No.	Component material	Version 2	Clamping force N	Shearing force kN	Pullout force F kN	Temperature resistance
K1064.620	polyamide	pins steel	30	3	0,5	≤130 °C
K1064.1022	polyamide	pins steel	50	9	1,5	≤130 °C
K1064.1028	polyamide	pins steel	50	9	1,5	≤130 °C
K1064.1620	stainless steel	pin stainless steel	30	3	0,5	≤130 °C
K1064.11022	stainless steel	pin stainless steel	50	9	1,5	≤130 °C
K1064.11028	stainless steel	pin stainless steel	50	9	1,5	≤130 °C

Locating bushes

for ball lock pin





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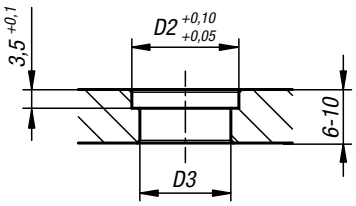
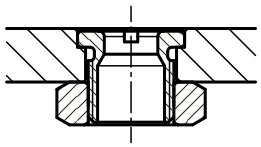
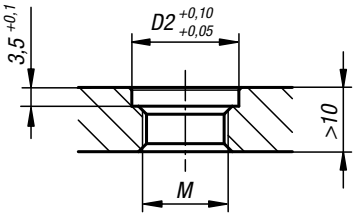
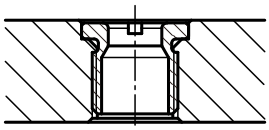




Ⓑ





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).

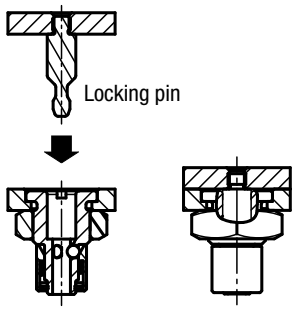
KIPP Locating bushes for ball lock pin

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

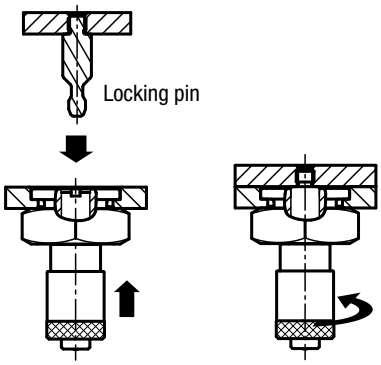
Technical information for ball lock bushes K1066 and K1067

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.

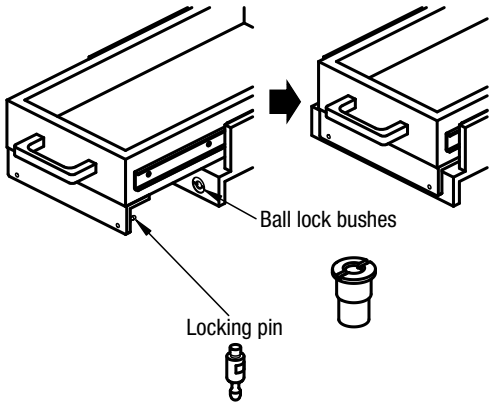


Ball lock bushes



Ball lock bushes with twist lock

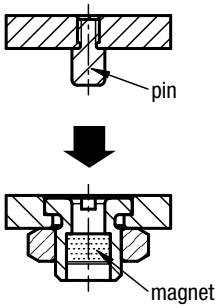
Application example:
End fixating of a sliding unit.

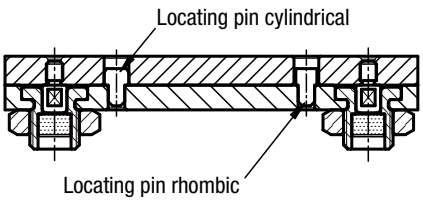


Technical information for magnetic bushes K1068 and K1069

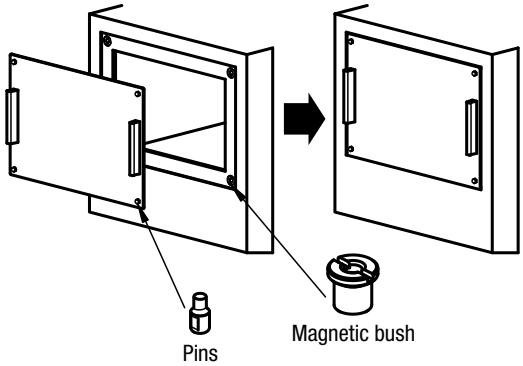
Note:
These are used to hold panels or thin plates. The pin is held in the bush housing by a magnet.
The repeat accuracy of ± 0.25 mm can be increased with the aid of additional locating pins.

Application:

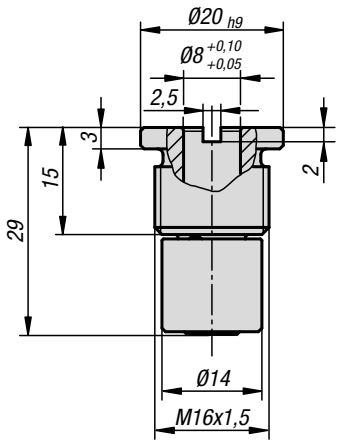




Application example:
Quick installation or removal of hatches



Ball lock bushes



Material:
Housing steel.
Balls and springs stainless steel.

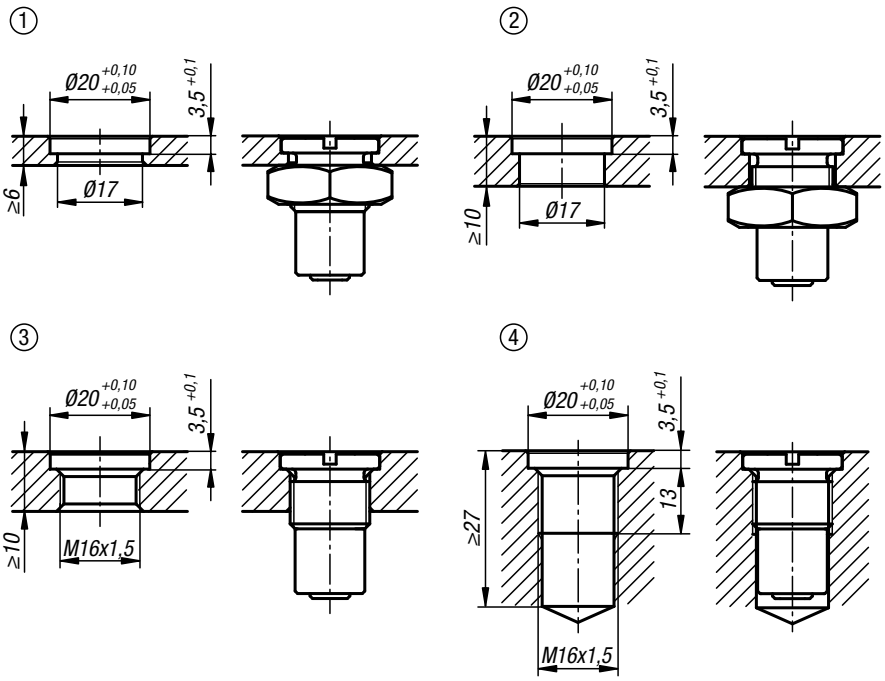
Version:
Housing nickel-plated.
Balls tempered.

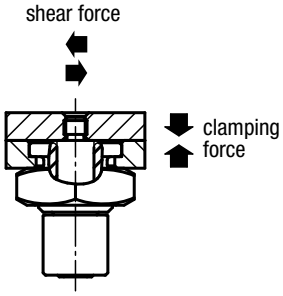
Sample order:
K1066.7

Note:
The 3 balls inside the bushing hold the locking pin with the specified retaining force.
Installation option 1: min. plate thickness 6 mm.
Installation option 2: max. plate thickness 10 mm.
Installation option 3: plate thickness > 10 mm.
Installation option 4: blind hole.

On request:
Suitable nuts.

Accessories:
Locking pin K1067.



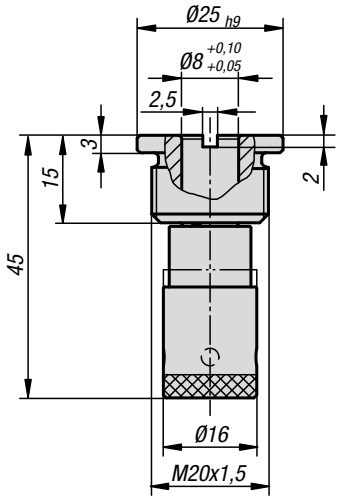


KIPP Ball lock bushes

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.

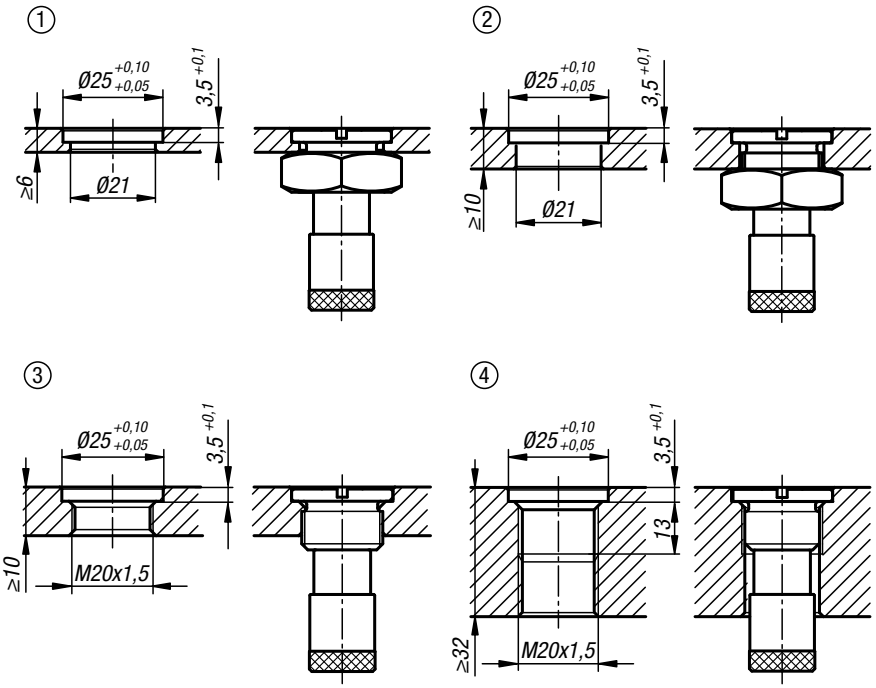
Version:
Housing and locking element nickel-plated.
Balls tempered.

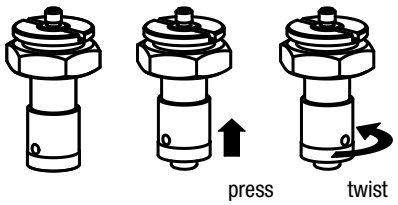
Sample order:
K1066.71

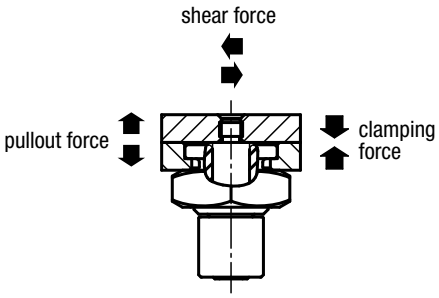
Note:
The 3 balls inside the bushing hold the locking pin with the specified retaining force.
The element is secured or released by twisting the bottom part of the bush.
Installation option 1: min. plate thickness 6 mm.
Installation option 2: max. plate thickness 10 mm.
Installation option 3: plate thickness > 10 mm.
Installation option 4: blind hole.

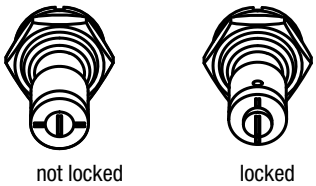
On request:
Suitable nuts.

Accessories:
Locking pin K1067.







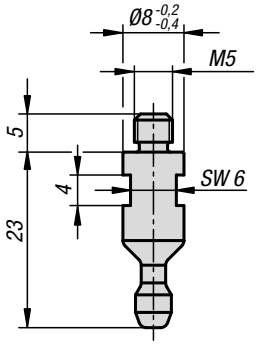


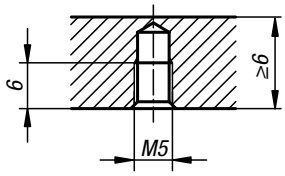
KIPP Ball lock bushes with twist lock

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



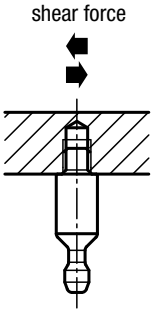


Material:
Steel.

Version:
Bright.

Sample order:
K1067.8

Note:
Repeat accuracy ± 0.25.
The repeat accuracy can be increased with the aid of locating pins.

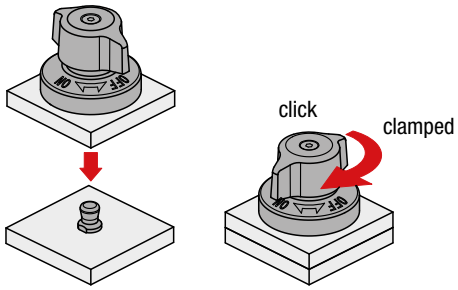


KIPP Locking pin for ball lock bushes

Order No.	Shearing force kN	Temperature resistance
K1067.8	1,8	≤180 °C

Technical Information
Quarter-turn latches K1561 and clamping pins K1564

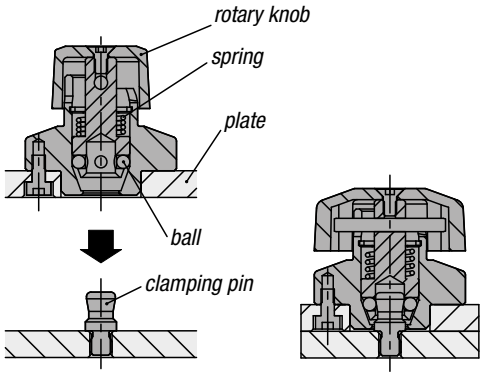
1. Application:



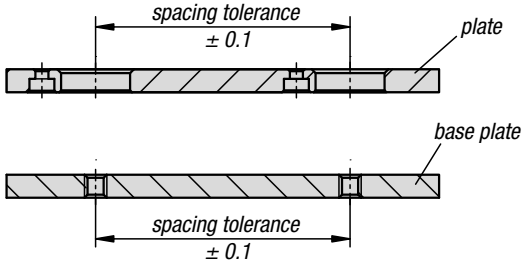
Check that the rotary knob is in the “OFF” position.
Set the quarter-turn latch over the clamping pin and turn the rotary knob to the “ON” position.
When fully clamped, a click sound is heard.

2. Function:

Four balls hold the clamping pin and clamp the plates together.

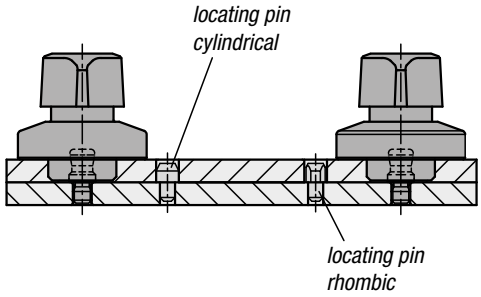


Production tolerances:



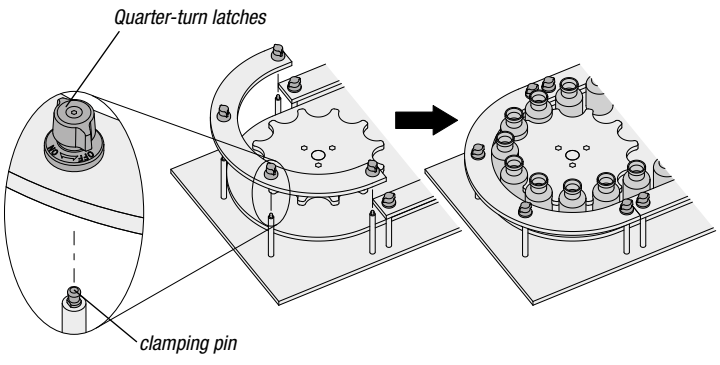
Repeat accuracy:

A higher repeat accuracy can be achieved with the aid of additional locating pins (not supplied).

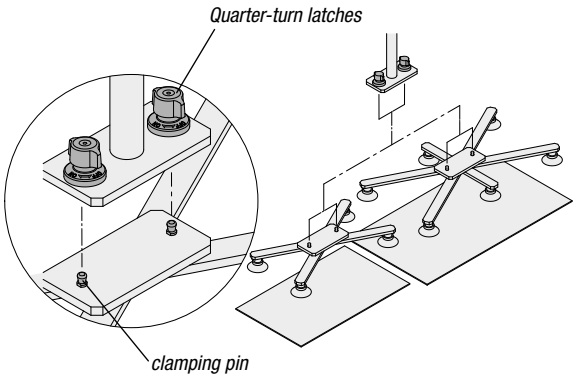


Application examples:

Replacement of the plates

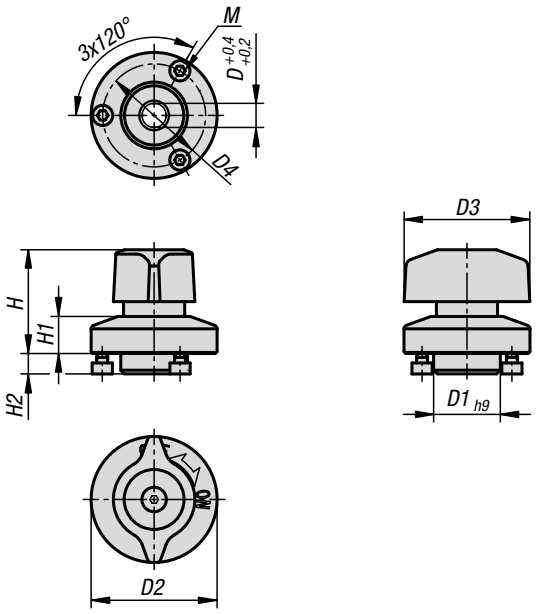


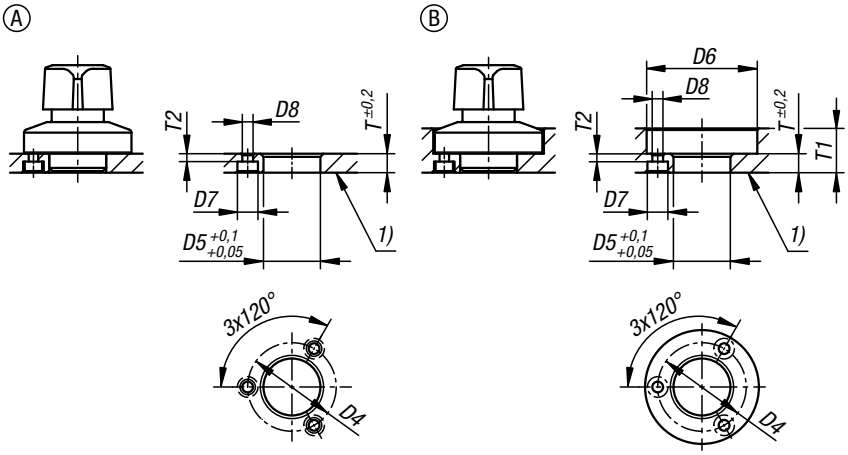
Lifting the suction pads

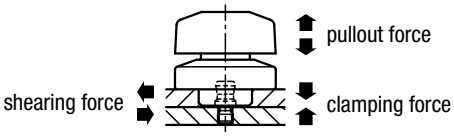


Quarter-turn latches, stainless steel

rotary knob plastic or stainless steel







Quarter-turn latches are used for replacing and locking fixtures or hatches quickly and easily. Toolless clamping shortens setup times.

Material:
Housing stainless steel.
Rotary knob thermoplastic PA (polyamide) or stainless steel.

Version:
Housing bright.
Rotary knob PA fibreglass reinforced, black.
Knob stainless steel, bright.

Sample order:
K1561.14

Note:
Stainless steel fastening screws M2 or M3 are included.
Form A mounting option for plate thickness 6 mm.
Form B mounting option for plate thickness > 6 to 14 mm.

Method of operation:
Check that the rotary knob is in the „OFF“ position. Set the lift and turn latch over the clamping pin and turn the rotary knob to the „ON“ position.
When fully clamped, a click sound is heard.

Accessories:
Clamping pins K1564.

Drawing reference:
1) plate

KIPP Quarter-turn latches, stainless steel, rotary knob plastic or stainless steel

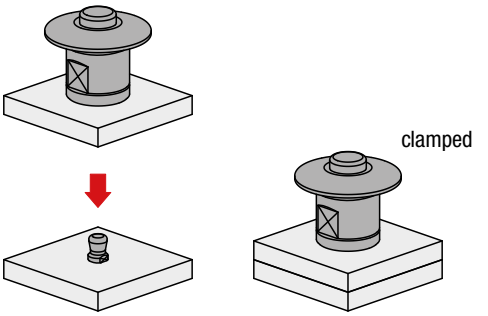
Order No. polyamide	Order No. stainless steel	D	D1	D2	D3	D4	H	H1	H2	M	D5	D6	D7	D8	T	T1	T2
K1561.14	**K1561.114**	6	14	25	25	21	23	6,5	5,5	M2x3	14	26	4,4	2,4	6	6-10	2,5
K1561.18	**K1561.118**	8	18	34	34	28	28	10	5,5	M3x4	18	35	6,5	3,4	6	6-14	2,5

KIPP Lift and turn latches, technical information

Order No. polyamide	Order No. stainless steel	D	Clamping force N	Shearing force kN	Pullout force kN	Temperature resistance
K1561.14	**K1561.114**	6	7	1,1	0,25	≤130 °C / ≤200 °C
K1561.18	**K1561.118**	8	9	1,8	0,4	≤130 °C / ≤200 °C

Technical Information
Push button latches K1562 and clamping pins K1564

1. Application:

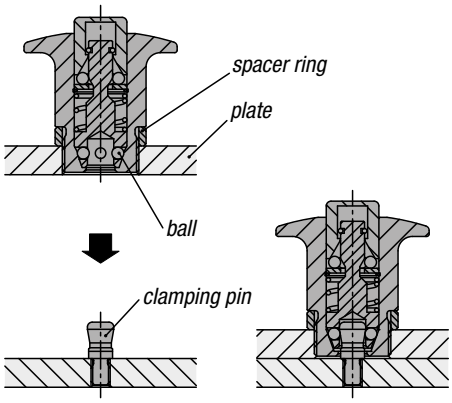


Press the latch over the clamping pin without pressing the knob. The latch is now locked.

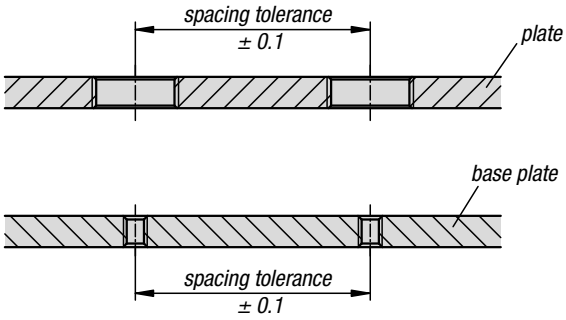
To release, press the button and pull the latch off.

2. Function:

Four balls hold the clamping pin and clamp the plates together.

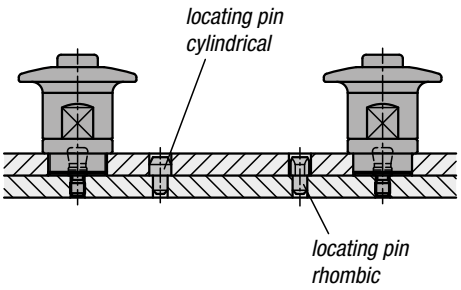


Production tolerances:



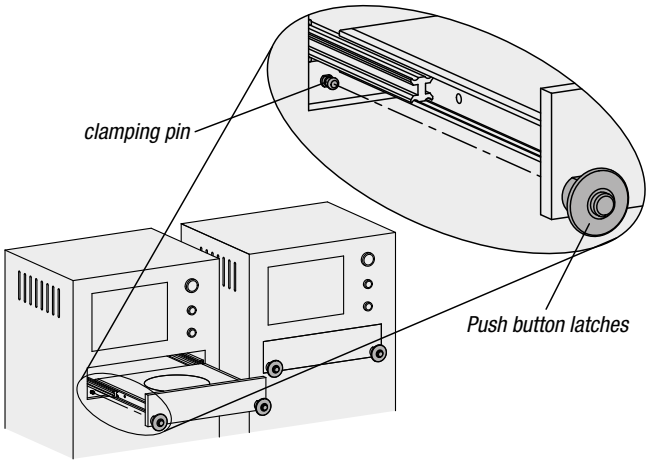
Repeat accuracy:

A higher repeat accuracy can be achieved with the aid of additional locating pins (not supplied).

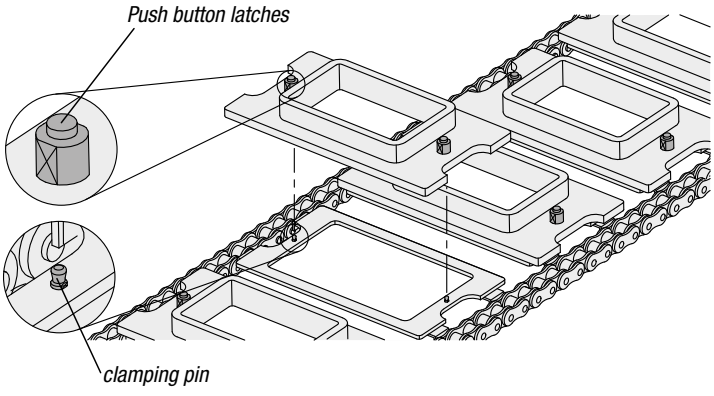


Application examples:

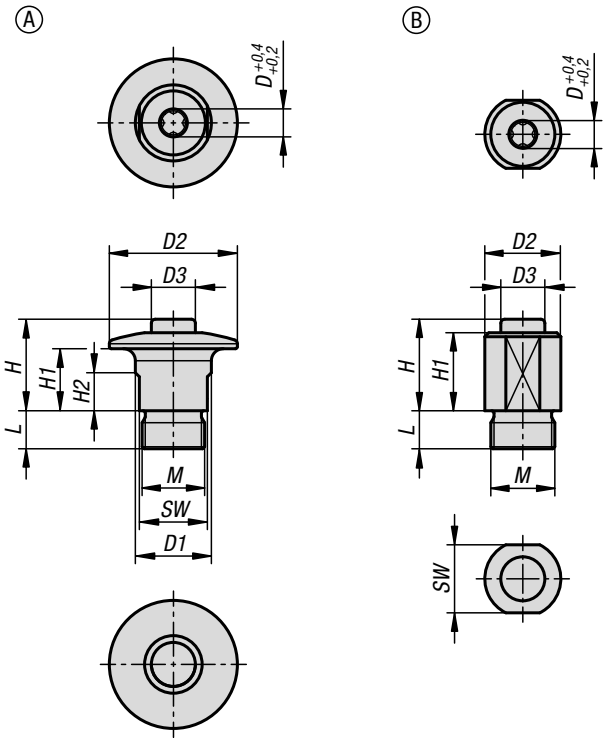
Securing a drawer

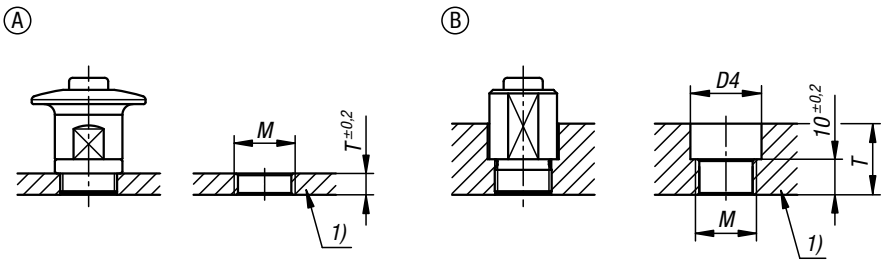


Moving the fixture



Push button latches stainless steel





Push button latches are used for replacing and locking fixtures or hatches quickly and easily. Toolless clamping shortens setup times.

Material:
Housing and push button stainless steel.

Version:
Housing and push button bright.

Sample order:
K1562.11

Note:
Form A for plate thickness 3 to 10 mm.
Form B for plate thickness 3 to 27 mm.

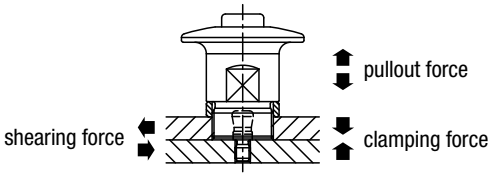
Method of operation:
Press the latch over the clamping pin without pressing the knob. The latch is now locked.
To release, press the button and pull the latch off.

Application:
Mounting option A in combination with spacer rings, for plate thickness 3 to 10 mm.
Mounting option B for plate thickness 10 to 27 mm.

Attention:
The specified pull-out forces apply only in combination with clamping pin K1564.

Accessories:
Spacer rings K1563.
Clamping pins K1564.

Drawing reference:
1) plate

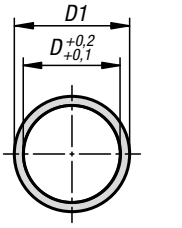


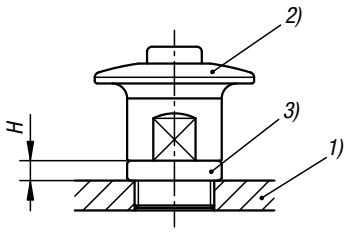
KIPP Push button latches stainless steel

Order No.	Form	Version 1	D	D1	D2	D3	D4	H	H1	H2	L	M	SW	T	Clamping force N	Shearing force kN	Pullout force F kN	Temperature resistance
K1562.11	A	with head	6	19	32	11	-	23	15,5	8,5	9,5	M16X1	17	3	6	1,1	0,25	≤180 °C
K1562.12	B	without head	6	-	19	11	20	23	19,5	-	9,5	M16X1	17	10-27	6	1,1	0,25	≤180 °C

Spacer rings stainless steel

for push button latches





In combination with push button latches, the plate thickness can be varied from 3 to 10 mm. See assembly drawing.

Material:
Stainless steel

Version:
Bright.

Sample order:
K1563.14

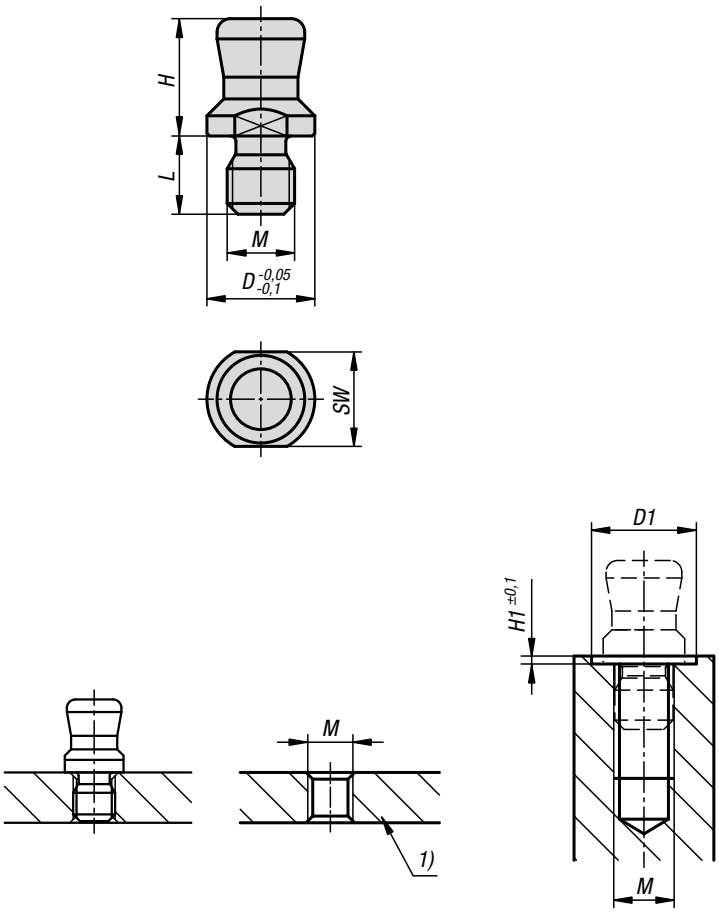
Accessories:
Push button latches K1562.

Drawing reference:
1) Plate
2) Push button latch
3) Spacer ring

KIPP Spacer rings stainless steel for push button latches

Order No.	D	D1	H
K1563.14	16	19	4
K1563.15	16	19	5
K1563.16	16	19	6
K1563.17	16	19	7

Clamping pin stainless steel



Material:
Stainless steel

Version:
Hardened.

Sample order:
K1564.16

Note:
Colour may differ from image due to curing process.

Method of operation:
Screw the clamping pin into the thread and tighten.
See assembly drawing.

Accessories:
Quarter-turn latches K1561.
Push button latches K1562.
Locating fixture round K1740.
Locating fixture flange K1741.

Drawing reference:
1) plate

KIPP Clamping pin stainless steel

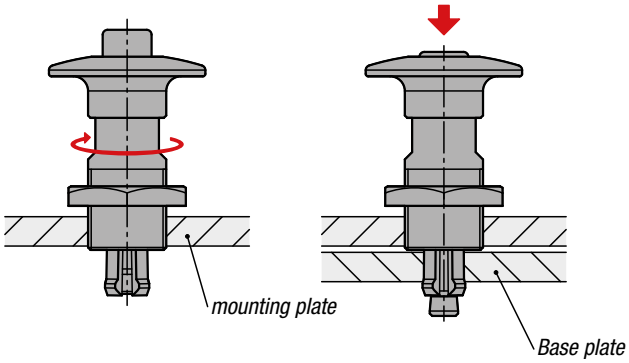
Order No.	D	D1	H	H1	L	M	SW
K1564.16	6	7	7,6	0,5	5,8	M04X0,7	5
K1564.18	8	9	8,7	0,5	5,8	M05X0,8	7

Technical Information
Locking pin K1565

Note:

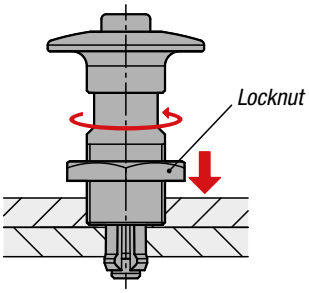
These are designed to quickly clamp 2 plates.

The system can be used for changing mechanisms in assembly applications or for making other manual adjustments, such as conversions in automatic systems.



Screw the locking pin into the mounting plate until the thread can be seen on the other side.

Press the knob and pass the clamping pin through the hole in the premachined baseplate.



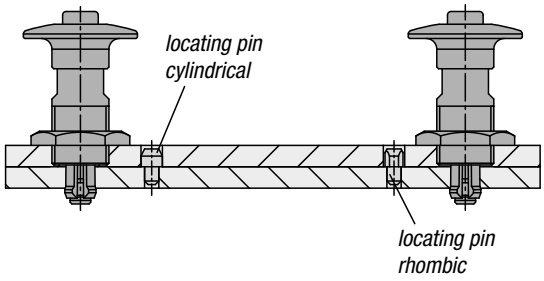
Screw the locking pin in the reverse direction till both plates come together, then secure with the locknut.

Assembly:

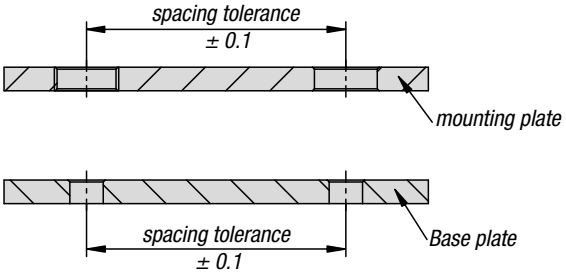
The mounting situation is customer specific. Plates of different thicknesses can be joined.

Repeat accuracy:

A higher repeat accuracy can be achieved with the aid of additional locating pins (not supplied).



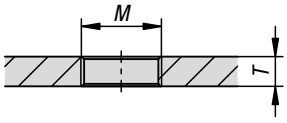
Recommended tolerances when using 2 items



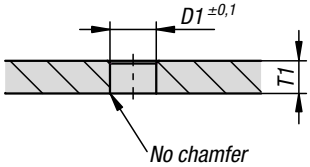
Attention:

Use a hard material such as stainless steel for the baseplate.

Mounting hole in the mounting plate

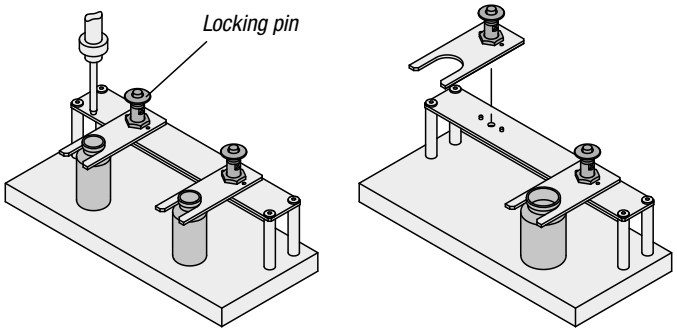


Mounting hole in the base plate

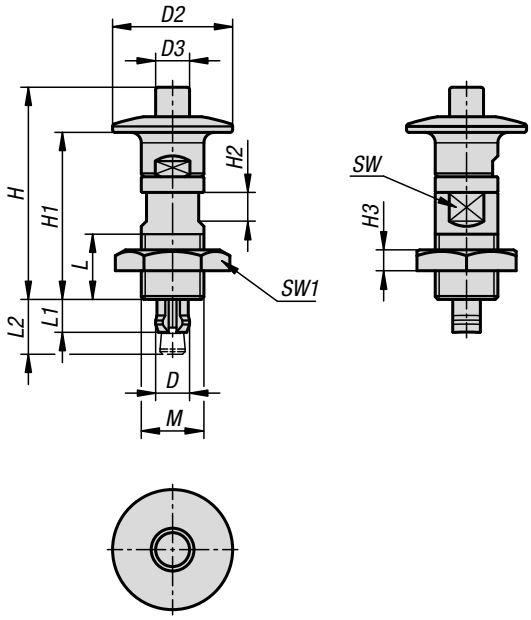


Application example:

Changing retainer plates



Locking pin stainless steel



With the locking pin, two separate plates can be joined quickly and easily with no counterpiece.

Material:
Housing and push button stainless steel.

Version:
Housing and push button bright.

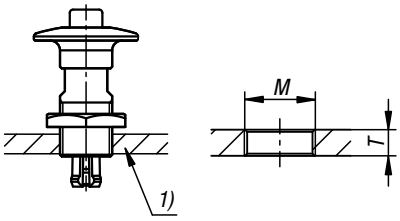
Sample order:
K1565.173

Note:
Mounting option for plate thickness 3 - 12 mm.
Use a hard material such as stainless steel for the baseplate.

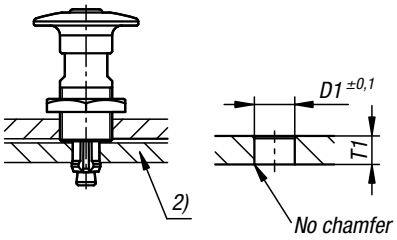
Method of operation:
Screw the locking pin into the mounting plate until the thread can be seen on the other side.
Press the knob and pass the clamping pin through the hole in the premachined baseplate.
Screw the locking pin in the reverse direction till both plates come together, then secure with the locknut.

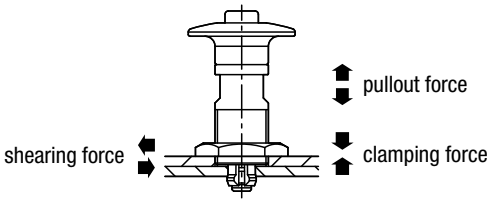
Drawing reference:
1) Mounting plate
2) Base plate

Mounting hole in the mounting plate



Mounting hole in the base plate

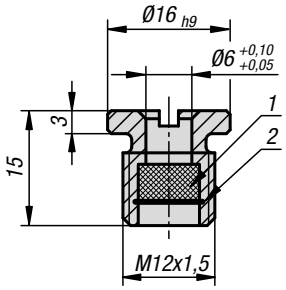


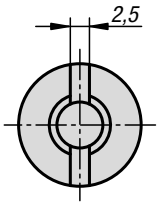


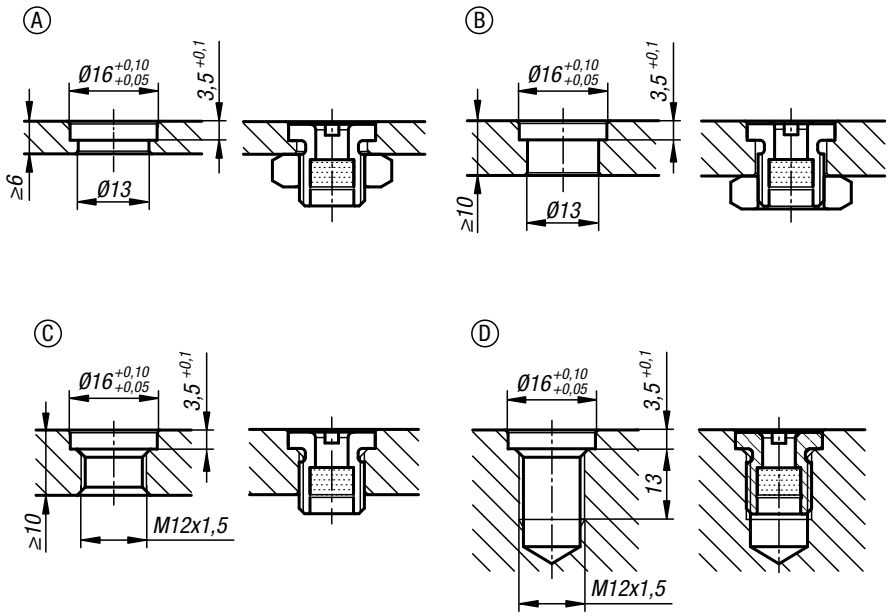
KIPP Locking pin stainless steel

Order No.	D	D1	D2	D3	H	H1	H2	H3	L	L1	L2	M	SW	SW1	T	T1	Temperature resistance	Shearing force kN	Pullout force F kN	Clamping force N
K1565.173	6,5	6,5	23	6,5	40	32	5,5	4	12,5	6,5	10,5	M12x1	10	19	3-8	3	≤180 °C	0,2	0,15	3
K1565.176	6,5	6,5	23	6,5	37	29	5,5	4	12,5	9,5	13,5	M12x1	10	19	3-8	6	≤180 °C	0,2	0,15	3
K1565.193	8,5	8,5	32	10	51	41,5	7	4	16,5	6,5	11	M16X1	14	24	3-12	3	≤180 °C	0,4	0,3	6
K1565.196	8,5	8,5	32	10	48	38,5	7	4	16,5	9,5	14	M16X1	14	24	3-12	6	≤180 °C	0,4	0,3	6

Magnetic bushes







Material:
Housing stainless steel.
Magnet neodymium.

Version:
Housing bright.

Sample order:
K1068.6

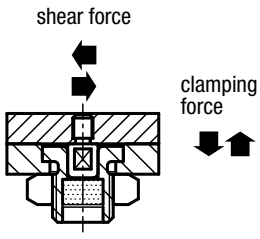
Note:
A magnet in the bush attracts the pin (K1069) and holds it with the specified retaining force.
Repeat accuracy ± 0.25. The repeat accuracy can be increased with the aid of additional locating pins.

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.

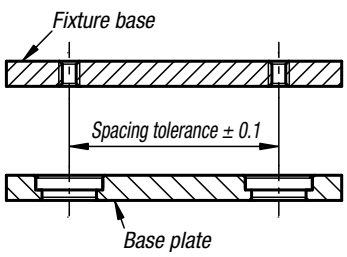
On request:
Suitable nuts.

Accessories:
Pin K1069

Drawing reference:
1) magnet
2) circlip



Recommended installation tolerances:

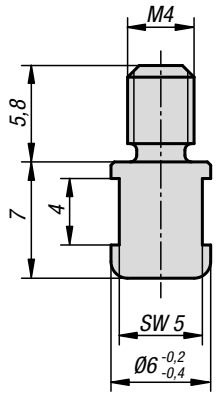


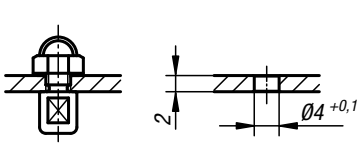
KIPP Magnetic bushes

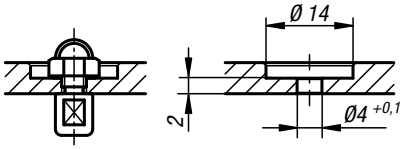
Order No.	Clamping force N	Shearing force kN	Temperature resistance
K1068.6	7	0,8	≤80 °C

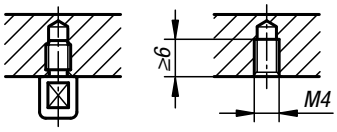
Pin

for magnetic bush









Material:
Steel.

Version:
Bright.

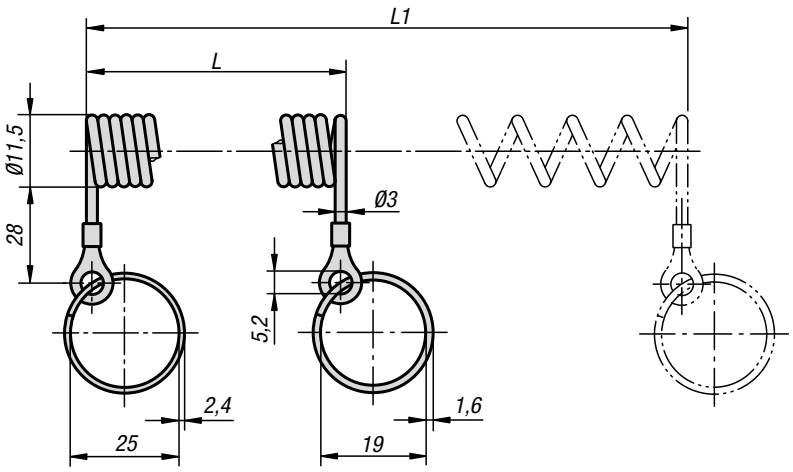
Sample order:
K1069.6

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

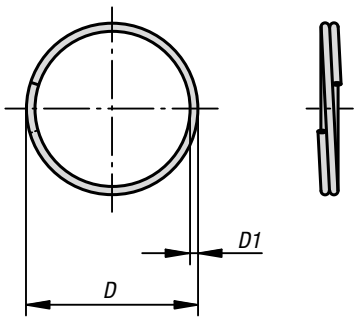
Note:
Elastic spiral cable to secure equipment parts. Very good reset force, robust and wear-resistant.

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

K0367

Key rings



Material:
Stainless steel 1.4310.

Version:
Bright.

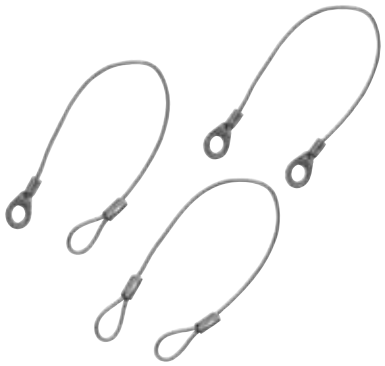
Sample order:
K0367.23

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



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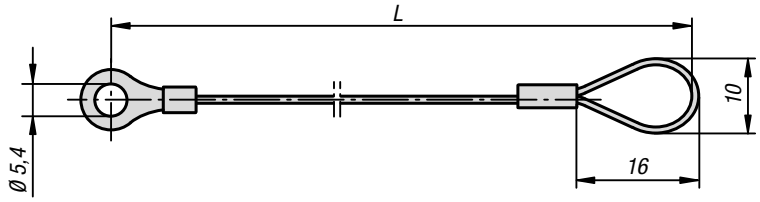

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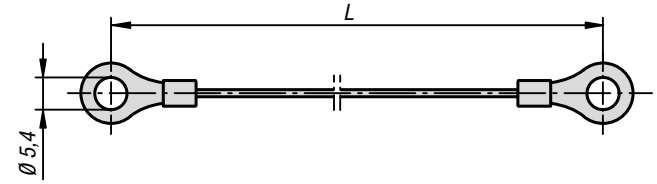

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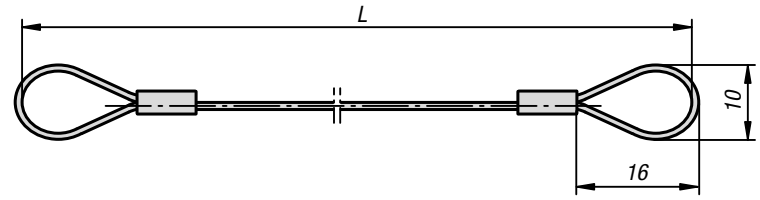
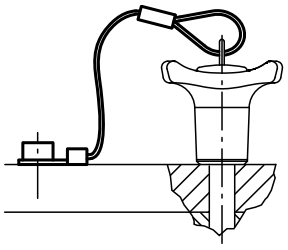


Material:
Cable stainless steel.
Crimp and end terminal aluminium.

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.

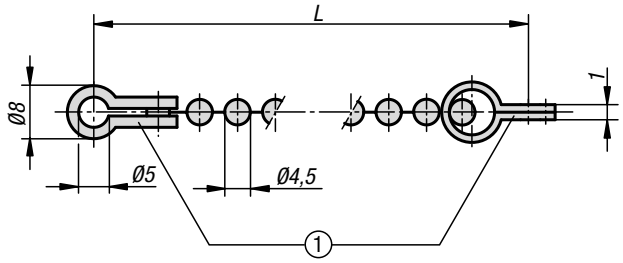


KIPP Retaining cables

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

Ⓐ



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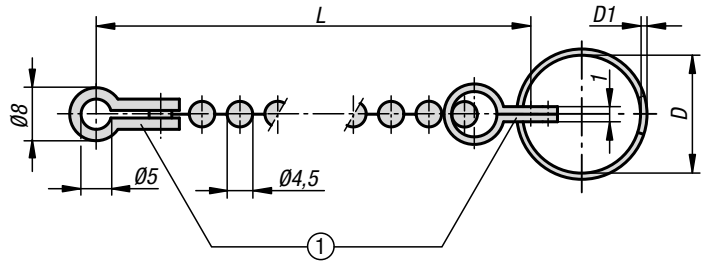


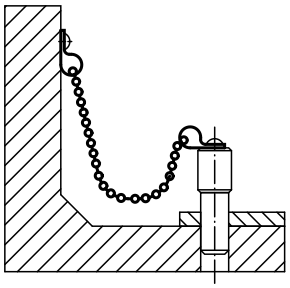
Material:
A: Chain stainless steel.
B: Chain stainless steel, key ring stainless steel.

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



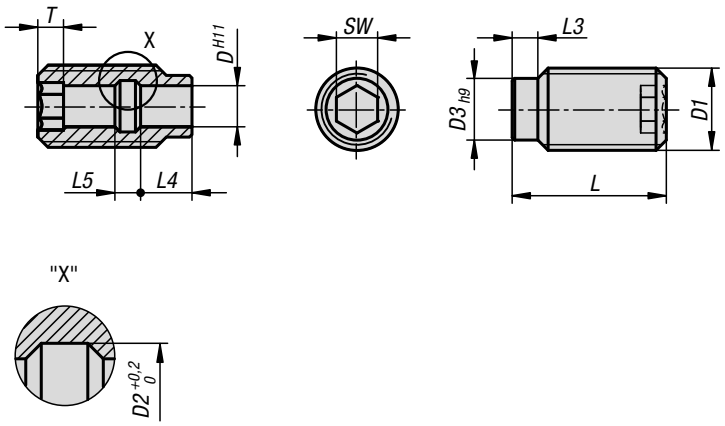
KIPP Form A, ball chain single

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



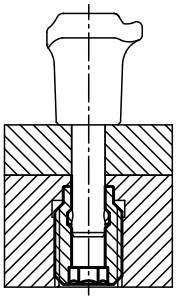
Material:
Stainless steel 1.4305.

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

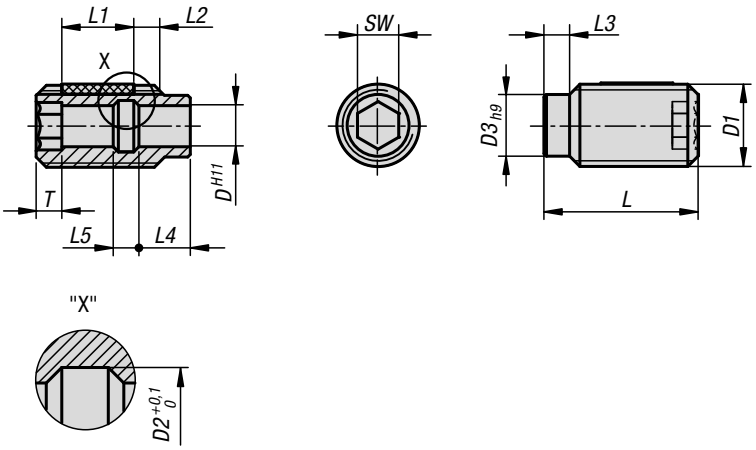


KIPP Bushing for ball lock pins

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

Locating bushes for ball lock pins,

with thread lock



Material:
Stainless steel 1.4305.

Thread lock nylon.

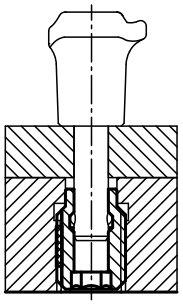
Version:
Steel parts bright.

Sample order:
K0724.112241

Note:
These bushes are ideal for easy and quick positioning of ball lock pins and locking pins.

Advantages:
- The locating bush is centred by the centring collar.
- Easy and reliable screwing in.
- Can be screwed into various materials.
- Usable on both sides.
- The thread lock enables the installation depth to be matched exactly to the existing components, so no hammering is necessary.

Drawing reference:
L2 = approx. 2x thread pitch

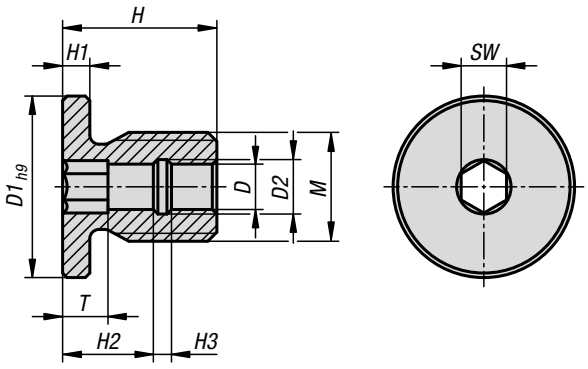


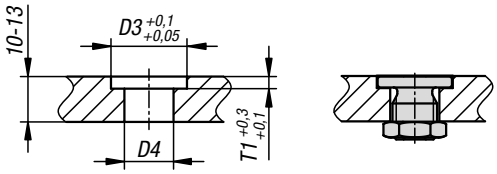
KIPP Locating bushes for ball lock pins, with thread lock

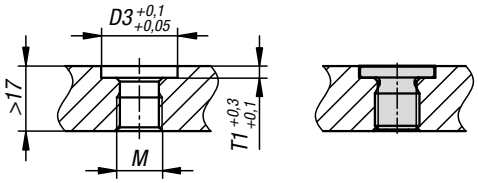
Order No.	D	D1	D2	D3	L	L1	L3	L4	L5	SW	T
K0724.105121	5	M12	6	9	25	10	4	7	3	5	4
K0724.106161	6	M16	7,5	12	30	14	5	10	5	6	5
K0724.108161	8	M16	10	12	30	14	5	10	5	8	5
K0724.110241	10	M24	13	18	35	14	6	8	7	10	6
K0724.112241	12	M24	15	18	35	14	6	8	7	12	6
K0724.116301	16	M30	20	24	40	14	8	11	9	16	7

Locating bushes with collar, stainless steel

for ball lock pins







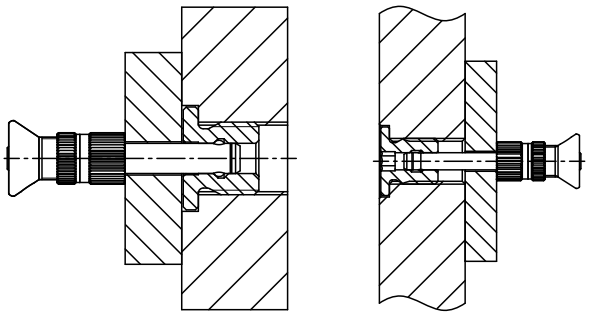
Material:
Stainless steel 1.4305.

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 used from both sides.

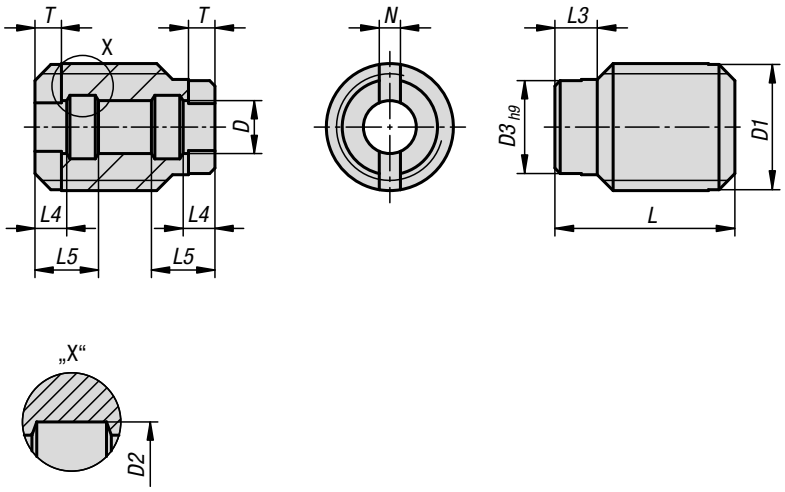


KIPP Locating bushes with collar, stainless steel, for ball lock pins

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.

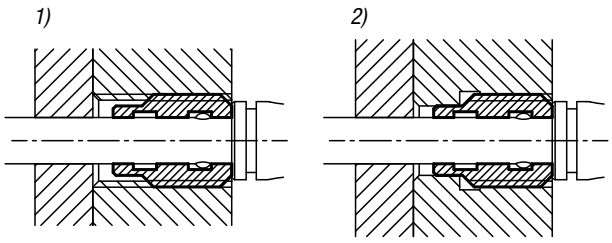
Version:
Bright.

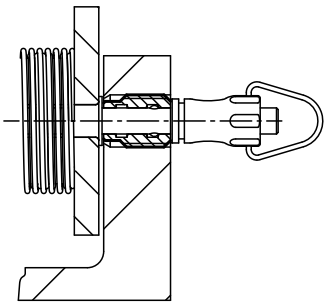
Sample order:
K1416.10512

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