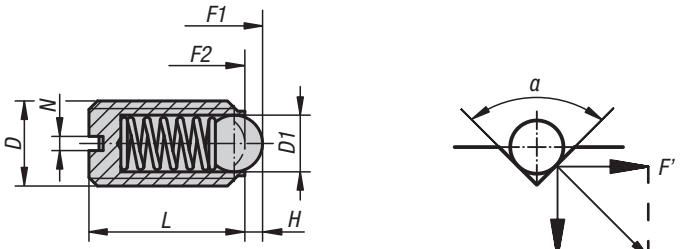
Spring plungers, indexing plungers, ball lock pins

K0309

Spring plungers

with slot and ball, steel



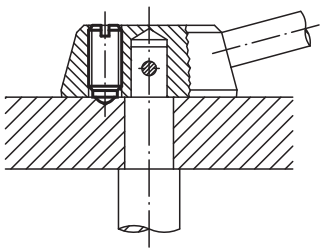
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

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

Version:
Black oxidised. Ball hardened.

Sample order:
K0309.203

handle indexing



K0309

Spring plungers

with slot and ball, steel

KIPP Spring plungers with slot and ball, standard spring

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

KIPP Spring plungers with slot and ball, reinforced spring

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

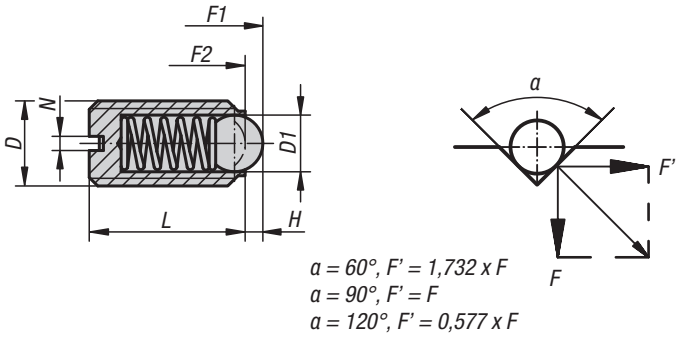
KIPP Spring plungers with slot and ball, long version, standard spring

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

K0310

Spring plungers

with slot and ball, stainless steel



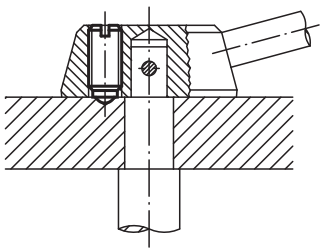
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

Version:
Bright. Ball hardened.

Sample order:
K0310.203

handle indexing



K0310

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

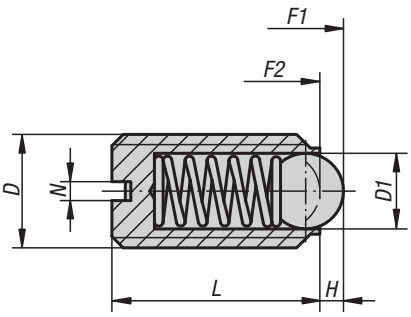
KIPP Spring plungers with slot and ball, long version, standard spring

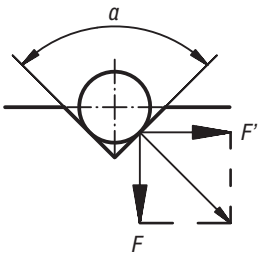
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.404	M4	2,5	16	0,8	0,6	4	10
K0310.405	M5	3	20	0,9	0,8	6	11
K0310.406	M6	3,5	25	1	1	9	13
K0310.408	M8	5	30	1,5	1,2	15	30
K0310.410	M10	6	35	2	1,6	20	35
K0310.412	M12	8	40	2,5	2	30	55
K0310.416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

K0311

Spring plungers

plastic, with slot and POM ball





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.

Version:
Ball, white.

Sample order:
K0311.10

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

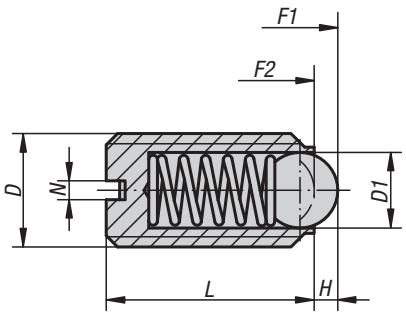
KIPP Spring plungers with slot and POM ball

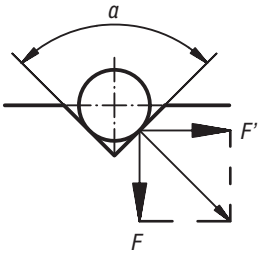
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0311.06	M6	3,5	14	1	1	9	13
K0311.08	M8	5	16	1,5	1,2	15	30
K0311.10	M10	6	19	2	1,6	20	40

K0312

Spring plungers

plastic, with slot and stainless steel ball





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

Material:
Sleeve plastic.
Ball stainless steel 1.4034.
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.

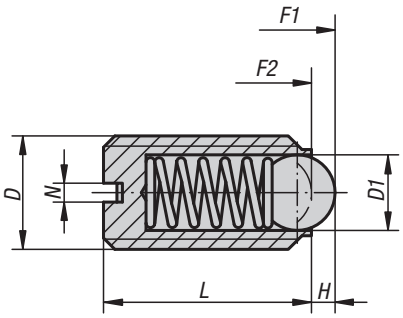
KIPP Spring plungers with slot and stainless steel ball

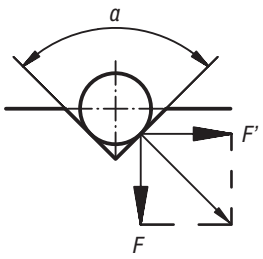
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0312.06	M6	3,5	14	1	1	9	13
K0312.08	M8	5	16	1,5	1,2	15	30
K0312.10	M10	6	19	2	1,6	20	40

K0609

Spring plungers

with slot and ceramic ball, stainless steel





α = 60°, F' = 1,732 x F
α = 90°, F' = F
α = 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 for example high resiliance and stability, excellent wear properties and good chemical resistance.

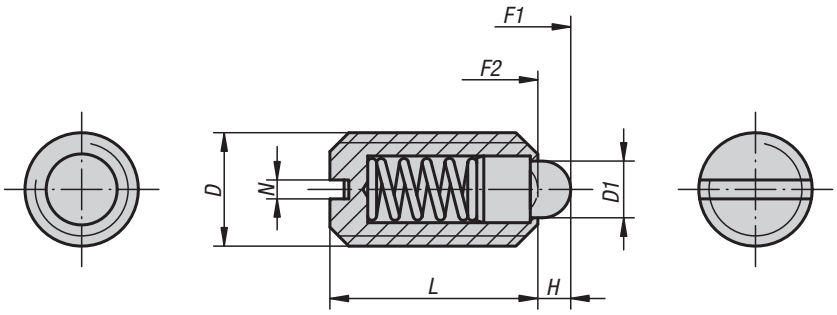
KIPP Spring plungers with slot and ceramic ball, stainless steel

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

K0313

Spring plungers

with slot and thrust pin, steel



Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel 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	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.04	M4	1,8	9	1,5	0,6	6	20
K0313.05	M5	2,4	12	2	0,8	6	20
K0313.06	M6	2,7	14	2	1	7	20
K0313.08	M8	4	16	2	1,2	15	30
K0313.10	M10	4,5	19	2,5	1,6	20	35
K0313.12	M12	6	22	3,5	2	30	55
K0313.16	M16	8,5	24	4,5	2,5	45	100
K0313.20	M20	10	30	6,5	2,5	60	120

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

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

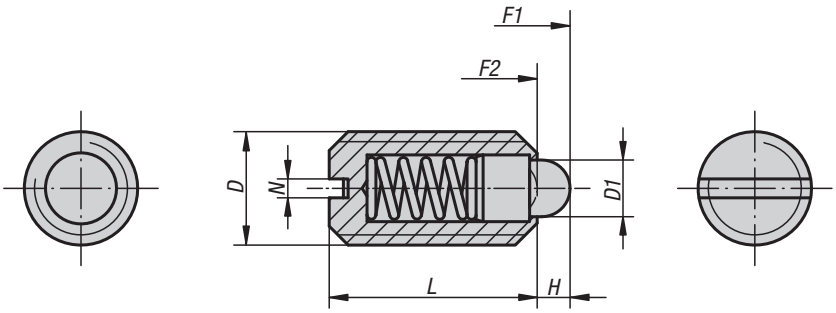
KIPP Spring plungers with slot and thrust pin, reinforced spring force

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

K0314

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	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.04	M4	1,8	9	1,5	0,6	6	20
K0314.05	M5	2,4	12	2	0,8	6	20
K0314.06	M6	2,7	14	2	1	7	20
K0314.08	M8	4	16	2	1,2	15	30
K0314.10	M10	4,5	19	2,5	1,6	20	35
K0314.12	M12	6	22	3,5	2	30	55
K0314.16	M16	8,5	24	4,5	2,5	45	100
K0314.20	M20	10	30	6,5	2,5	60	120

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

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

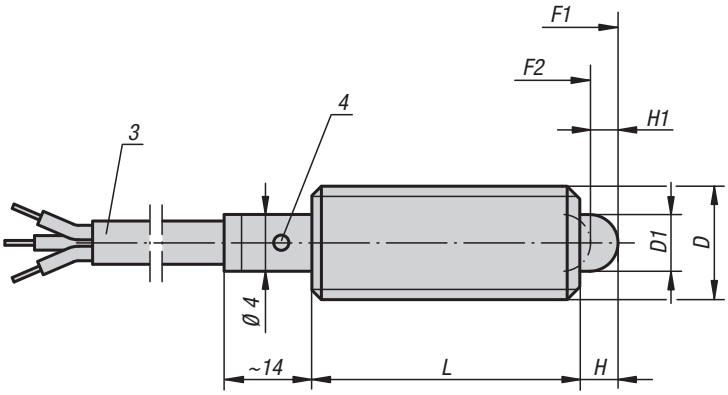
KIPP Spring plungers with slot and thrust pin, reinforced spring force

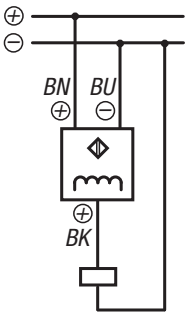
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.205	M5	2,4	12	2	0,8	9	25
K0314.206	M6	2,7	14	2	1	11	25
K0314.208	M8	4	16	2	1,2	22	43
K0314.210	M10	4,5	19	2,5	1,6	20	54
K0314.212	M12	6	22	3,5	2	36	94
K0314.216	M16	8,5	24	4,5	2,5	60	110

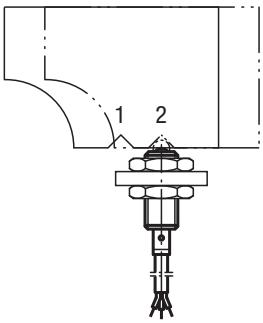
K0656

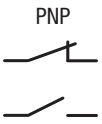
Spring plungers

with end position feedback









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

Safety:
Spring plungers with end position feedback 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 end position feedback

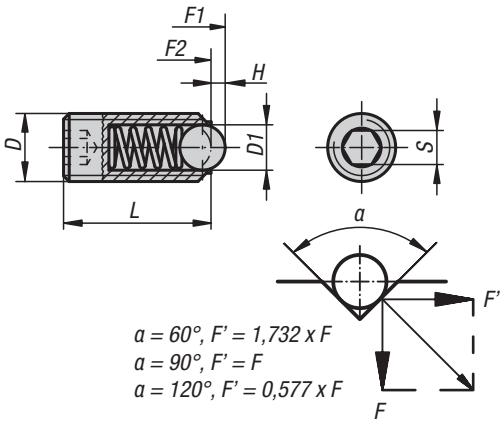
Order No.	Type	D	D1	L	H	H1	Switching contact from stroke H1	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0656.5061	normally closed	M6	2,7	27	3	2	1,2 - 1,6	7	20
K0656.5081	normally closed	M8	4	29	3	2	1,2 - 1,8	15	30
K0656.5101	normally closed	M10	4,5	36	4	3	2,2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

Notes

K0315

Spring plungers

with hexagon socket and ball, steel

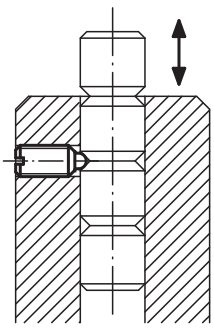


Material:
Sleeve steel grade 5.8.
Ball steel.
Spring steel grade D.

Version:
Black oxidised. Ball hardened.

Sample order:
K0315.210

column indexing



K0315

Spring plungers

with hexagon socket and ball, steel

KIPP Spring plungers with hexagon socket and ball, standard spring

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

KIPP Spring plungers with hexagon socket and ball, reinforced spring

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

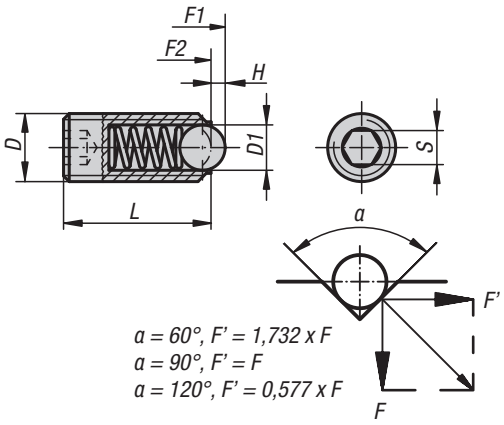
KIPP Spring plungers with hexagon socket and ball, long version, standard spring

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

K0316

Spring plungers

with hexagon socket and ball, stainless steel

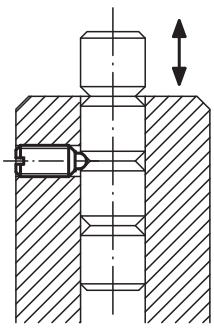


Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

Version:
Bright. Ball hardened.

Sample order:
K0316.210

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	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.03	M3	1,5	9	0,4	1,5	1,5	3
K0316.04	M4	2,5	10	0,8	2	4	10
K0316.05	M5	3	14	0,9	2,5	6	11
K0316.06	M6	3,5	15	1	3	9	13
K0316.08	M8	5	18	1,5	4	15	30
K0316.10	M10	6	23	2	5	20	35
K0316.12	M12	8	26	2,5	6	30	55
K0316.16	M16	10	33	3,5	8	65	125
K0316.20	M20	12	43	4,5	10	80	160
K0316.24	M24	15	48	5,5	12	90	180

KIPP Spring plungers with hexagon socket and ball, reinforced spring

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

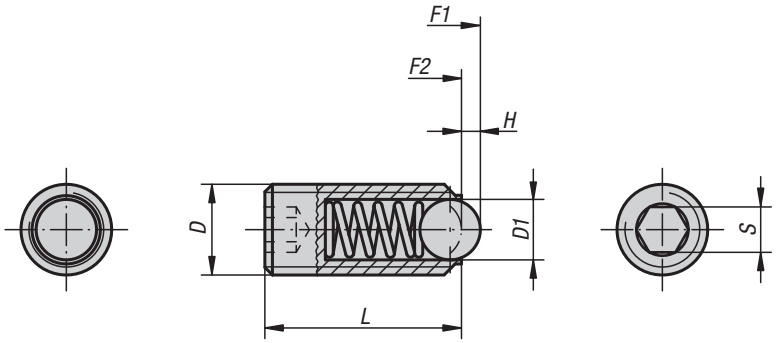
KIPP Spring plungers with hexagon socket and ball, long version, standard spring

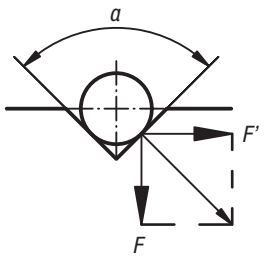
Order No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.404	M4	2,5	16	0,8	2	4	10
K0316.405	M5	3	20	0,9	2,5	6	11
K0316.406	M6	3,5	25	1	3	9	13
K0316.408	M8	5	30	1,5	4	15	30
K0316.410	M10	6	35	2	5	20	35
K0316.412	M12	8	40	2,5	6	30	55
K0316.416	M16	10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

K0610

Spring plungers

with hexagon socket and ceramic ball





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.

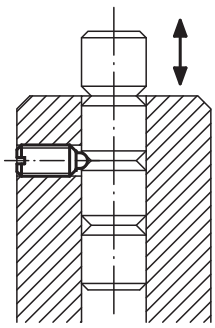
Version:
Bright.

Sample order:
K0610.05

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

Advantages:
High temperature resistance.

column indexing



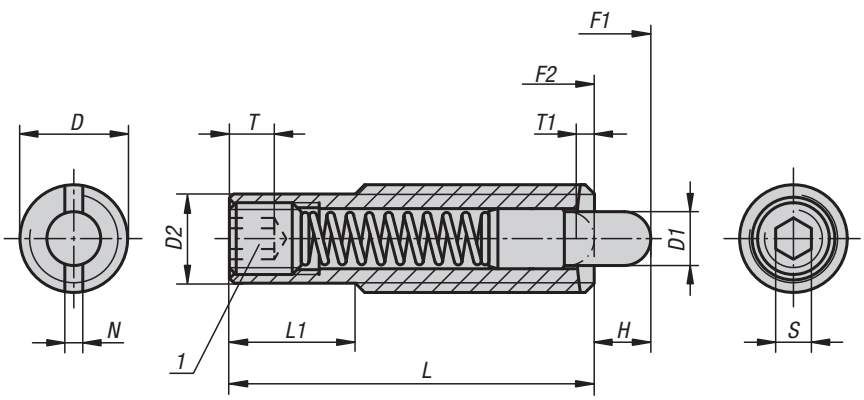
KIPP Spring plungers with hexagon socket and ceramic ball

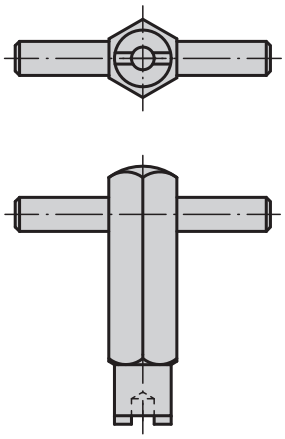
Order No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0610.05	M5	3	14	0,9	2,5	6	11
K0610.06	M6	3,5	15	1	3	9	13
K0610.08	M8	5	18	1,5	4	15	30
K0610.10	M10	6	23	2	5	20	35
K0610.12	M12	8	26	2,5	6	30	55
K0610.16	M16	10	33	3,5	8	65	125

K0657

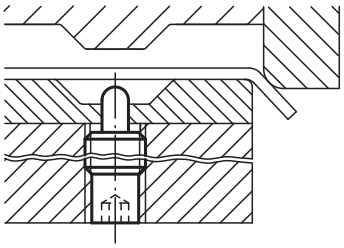
Spring plungers

with hexagon socket and thrust pin, long version

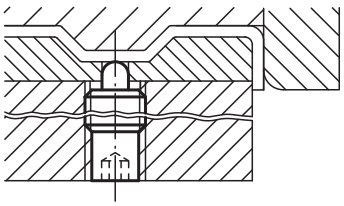




bending



ready to eject



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

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0657.616

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

Drawing reference:
1) grub screw glued in

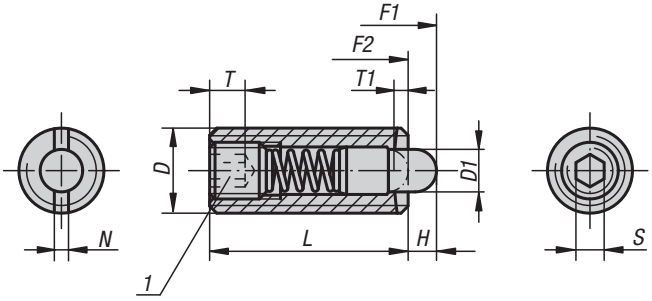
KIPP Spring thrust pin with hexagon socket and thrust pin, long version

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

K0317

Spring plungers

with hexagon socket and thrust pin, steel

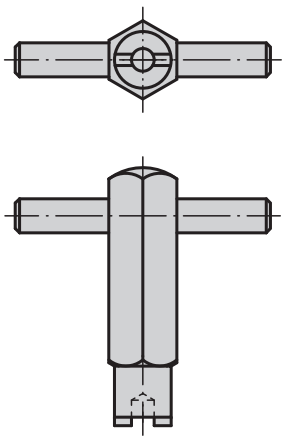


Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel grade D.

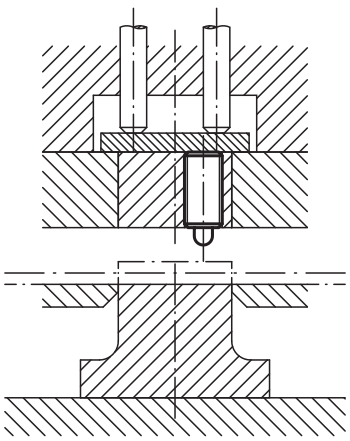
Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0317.16

Drawing reference:
1) grub screw glued in



Spring plunger
sectional view



K0317

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	L	H	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	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0317.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0317.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	6	20	K0317.905
K0317.06	M6	2,7	20	2,5	2,5	1	1	2	7	20	K0317.906
K0317.08	M8	3,5	22	3	3	1,4	1,2	2,5	9	35	K0317.908
K0317.10	M10	4	22	3	3,5	1,4	1,6	3	9	35	K0317.910
K0317.12	M12	6	28	4	5	2	2	4	12	55	K0317.912
K0317.16	M16	7,5	32	5	6	2,5	2,5	5	45	100	K0317.916
K0317.20	M20	10	40	7	8	3	2,5	6	60	120	-
K0317.24	M24	12	52	10	10	3	2,5	8	80	160	-

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

Order No.	D	D1	L	H	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	15	1,5	2	0,6	0,6	1,3	2	7	K0317.904
K0317.105	M5	2,4	18	2,3	2	0,8	0,8	1,5	3	10	K0317.905
K0317.106	M6	2,7	20	2,5	2,5	1	1	2	3	9	K0317.906
K0317.108	M8	3,5	22	3	3	1,4	1,2	2,5	4	16	K0317.908
K0317.110	M10	4	22	3	3,5	1,4	1,6	3	4	16	K0317.910
K0317.112	M12	6	28	4	5	2	2	4	5	27	K0317.912
K0317.116	M16	7,5	32	5	6	2,5	2,5	5	20	45	K0317.916

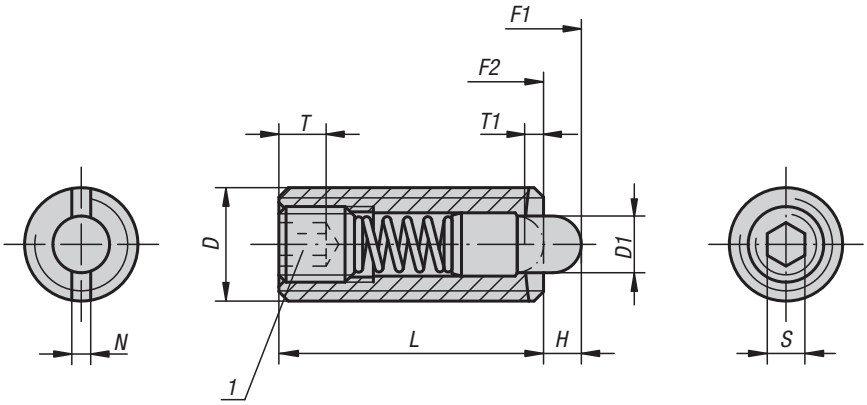
KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force

Order No.	D	D1	L	H	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	18	2,3	2	0,8	0,8	1,5	11	29	K0317.905
K0317.206	M6	2,7	20	2,5	2,5	1	1	2	14	37	K0317.906
K0317.208	M8	3,5	22	3	3	1,4	1,2	2,5	22	65	K0317.908
K0317.210	M10	4	22	3	3,5	1,4	1,6	3	19	70	K0317.910
K0317.212	M12	6	28	4	5	2	2	4	25	85	K0317.912
K0317.216	M16	7,5	32	5	6	2,5	2,5	5	60	150	K0317.916
K0317.220	M20	10	40	7	8	3	2,5	6	75	190	-
K0317.224	M24	12	52	10	10	3	2,5	8	95	240	-

K0318

Spring plungers

with hexagon socket and POM thrust pin, steel

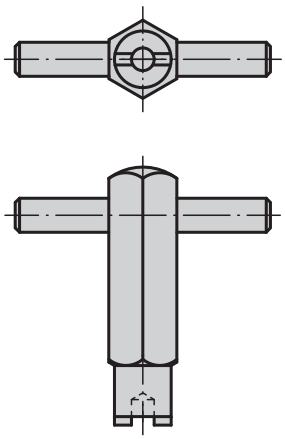


Material:
Sleeve steel grade 5.8.
Thrust pin POM.
Spring steel grade D.

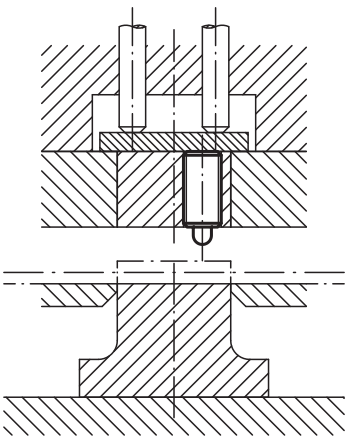
Version:
Black oxidised.

Sample order:
K0318.16

Drawing reference:
1) grub screw glued in



Spring plunger
sectional view



Spring plungers

with hexagon socket and POM thrust pin, steel

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

Order No.	D	D1	L	H	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	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0318.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0318.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	6	20	K0317.905
K0318.06	M6	2,7	20	2,5	2,5	1	1	2	7	20	K0317.906
K0318.08	M8	3,5	22	3	3	1,4	1,2	2,5	9	35	K0317.908
K0318.10	M10	4	22	3	3,5	1,4	1,6	3	9	35	K0317.910
K0318.12	M12	6	28	4	5	2	2	4	12	55	K0317.912
K0318.16	M16	7,5	32	5	6	2,5	2,5	5	45	100	K0317.916

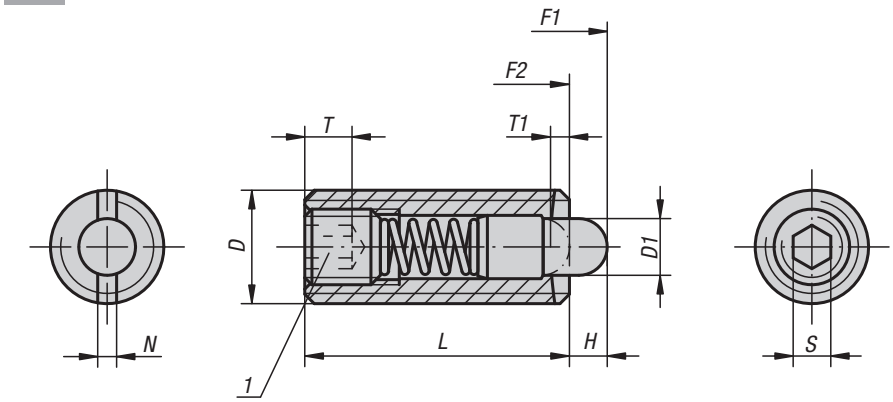
KIPP Spring plungers with hexagon socket and thrust pin, light spring force

Order No.	D	D1	L	H	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	15	1,5	2	0,6	0,6	1,3	2	7	K0317.904
K0318.105	M5	2,4	18	2,3	2	0,8	0,8	1,5	3	10	K0317.905
K0318.106	M6	2,7	20	2,5	2,5	1	1	2	3	9	K0317.906
K0318.108	M8	3,5	22	3	3	1,4	1,2	2,5	4	16	K0317.908
K0318.110	M10	4	22	3	3,5	1,4	1,6	3	4	16	K0317.910
K0318.112	M12	6	28	4	5	2	2	4	5	27	K0317.912
K0318.116	M16	7,5	32	5	6	2,5	2,5	5	20	45	K0317.916

K0319

Spring plungers

with hexagon socket and thrust pin, stainless steel

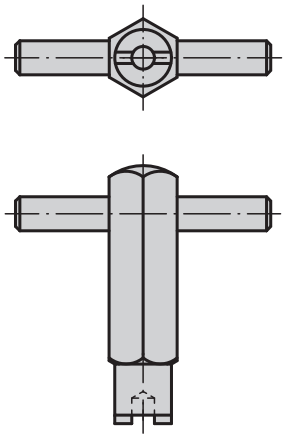


Material:
Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

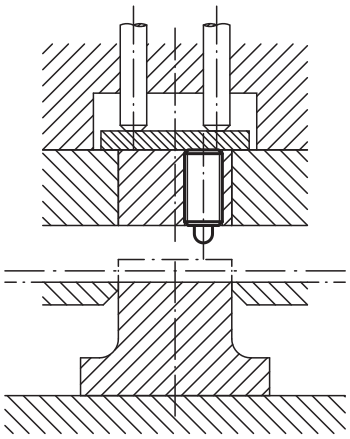
Version:
Bright.
Thrust pin hardened.

Sample order:
K0319.16

Drawing reference:
1) grub screw glued in



Spring plunger
sectional view



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

Order No.	D	D1	L	H	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	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0319.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0319.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	5	17	K0317.905
K0319.06	M6	2,7	20	2,5	2,5	1	1	2	6	17	K0317.906
K0319.08	M8	3,5	22	3	3	1,4	1,2	2,5	7	29	K0317.908
K0319.10	M10	4	22	3	3,5	1,4	1,6	3	8	31	K0317.910
K0319.12	M12	6	28	4	5	2	2	4	10	47	K0317.912
K0319.16	M16	7,5	32	5	6	2,5	2,5	5	45	100	K0317.916

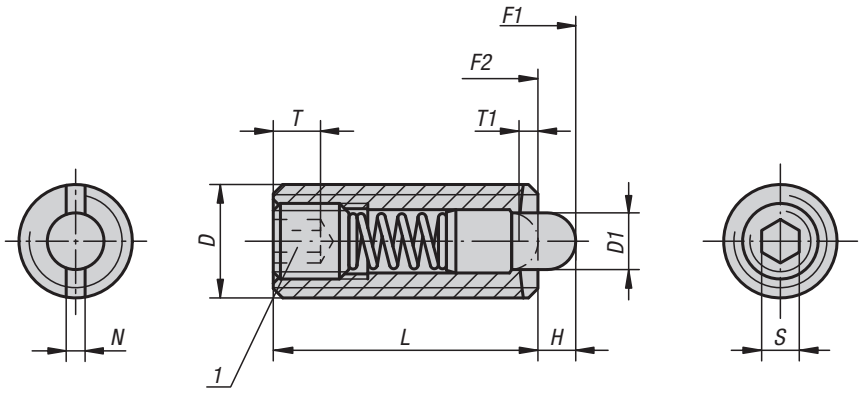
KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force

Order No.	D	D1	L	H	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	18	2,3	2	0,8	0,8	1,5	9	26	K0317.905
K0319.206	M6	2,7	20	2,5	2,5	1	1	2	11	35	K0317.906
K0319.208	M8	3,5	22	3	3	1,4	1,2	2,5	15	48	K0317.908
K0319.210	M10	4	22	3	3,5	1,4	1,6	3	15	58	K0317.910
K0319.212	M12	6	28	4	5	2	2	4	19	74	K0317.912

K0320

Spring plungers

with hexagon socket and POM thrust pin, stainless steel

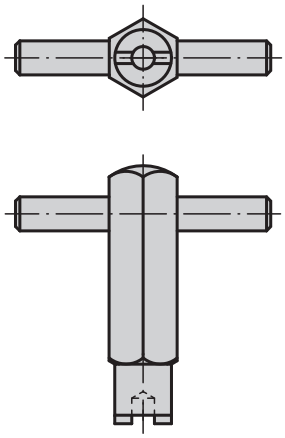


Material:
Stainless steel sleeve 1.4305.
Thrust pin POM.
Stainless steel spring 1.4310.

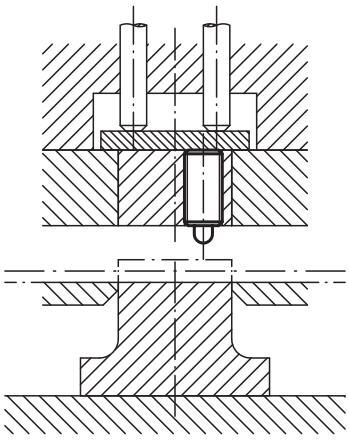
Version:
Bright.

Sample order:
K0320.16

Drawing reference:
1) grub screw glued in



Spring plunger
sectional view



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

Order No.	D	D1	L	H	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	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0320.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0320.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	5	17	K0317.905
K0320.06	M6	2,7	20	2,5	2,5	1	1	2	6	17	K0317.906
K0320.08	M8	3,5	22	3	3	1,4	1,2	2,5	7	29	K0317.908
K0320.10	M10	4	22	3	3,5	1,4	1,6	3	8	31	K0317.910
K0320.12	M12	6	28	4	5	2	2	4	10	47	K0317.912
K0320.16	M16	7,5	32	5	6	2,5	2,5	5	45	100	K0317.916

Spring plungers with LONG-LOK thread lock

LONG-LOK, the most advanced thread locking mechanism

With the following crucial advantages:

1. Vibration resistant.

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

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

4. Saves assembly time and stocking space.

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

5. For repeated use.

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

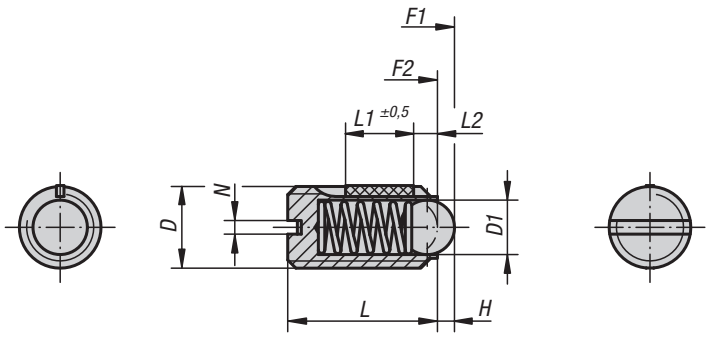
6. Problem solver from M3 to M16.

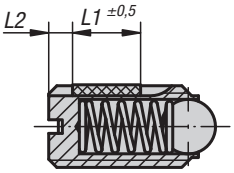
Light-weight or heavy-weight: name your requirements! We will supply you with the suitable spring plungers with integrated LONG-LOK thread lock.

K0321

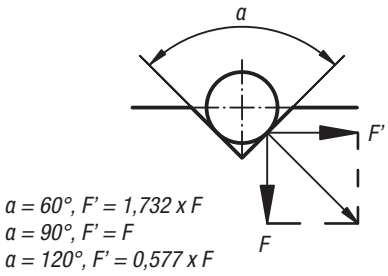
Spring plungers

with slot and ball, LONG-LOK secured, steel





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 steel grade 5.8.
Ball steel.
Spring steel grade D.

LONG-LOK thread lock nylon.

Version:
Black oxidised. Ball hardened.

Sample order:
K0321.12

Drawing reference:
L2 = approx. 2x thread pitch

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

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

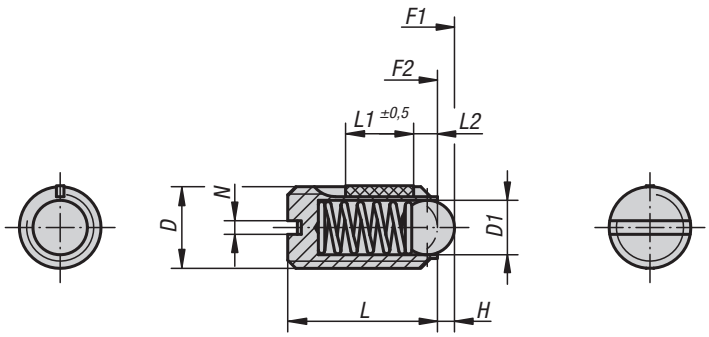
KIPP Spring plungers with slot and ball, reinforced spring, LONG-LOK secured

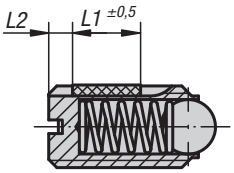
Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0321.203	M3	1,5	7	4	0,4	0,4	5	7	0,1	0,07
K0321.204	M4	2,5	9	5	0,8	0,6	12	22	0,18	0,12
K0321.205	M5	3	12	6	0,9	0,8	19	30	0,12	0,08
K0321.206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

K0322

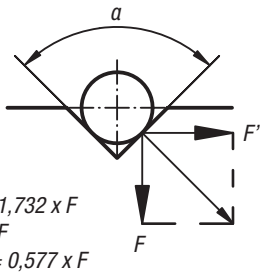
Spring plungers

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





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 1.4305.
Ball 1.4034.
Spring 1.4310.

LONG-LOK thread lock in 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, LONG-LOK secured

Order No.	D	D1	L	L1	H	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	7	4	0,4	0,4	1,5	3	0,1	0,07
K0322.04	M4	2,5	9	5	0,8	0,6	4	10	0,18	0,12
K0322.05	M5	3	12	6	0,9	0,8	6	11	0,12	-
K0322.06	M6	3,5	14	7	1	1	9	13	0,43	0,21
K0322.08	M8	5	16	8	1,5	1,2	15	30	1,09	0,37
K0322.10	M10	6	19	9	2	1,6	20	35	1,36	0,62
K0322.12	M12	8	22	10	2,5	2	30	55	2,03	1,36
K0322.16	M16	10	24	14	3,5	2,5	65	125	3,95	2,95

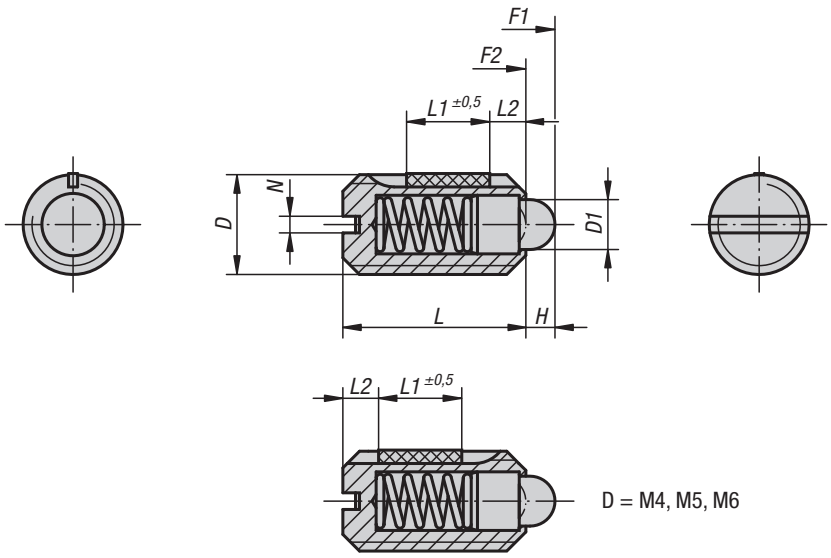
KIPP Spring plungers with slot and ball, reinforced spring, LONG-LOK secured

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

K0323

Spring plungers

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



D = M4, M5, M6

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

LONG-LOK thread lock nylon.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0323.10

Drawing reference:
L2 = approx. 2x thread pitch

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

Order No.	D	D1	L	L1	H	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	9	5	1,5	0,6	6	20	0,18	0,12
K0323.05	M5	2,4	12	6	2	0,8	6	20	0,12	0,08
K0323.06	M6	2,7	14	7	2	1	7	20	0,44	0,21
K0323.08	M8	4	16	8	2	1,2	15	30	1,1	0,38
K0323.10	M10	4,5	19	9	2,5	1,6	20	35	1,36	0,62
K0323.12	M12	6	22	10	3,5	2	30	55	2,11	1,41
K0323.16	M16	8,5	24	14	4,5	2,5	45	100	3,95	3,05

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

Order No.	D	D1	L	L1	H	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	9	5	1,5	0,6	3	10	0,18	0,12
K0323.105	M5	2,4	12	6	2	0,8	3	10	0,12	0,08
K0323.106	M6	2,7	14	7	2	1	4	10	0,44	0,21
K0323.108	M8	4	16	8	2	1,2	7	15	1,1	0,38
K0323.110	M10	4,5	19	9	2,5	1,6	9	16	1,36	0,62
K0323.112	M12	6	22	10	3,5	2	14	26	2,11	1,41
K0323.116	M16	8,5	24	14	4,5	2,5	22	50	3,95	3,05

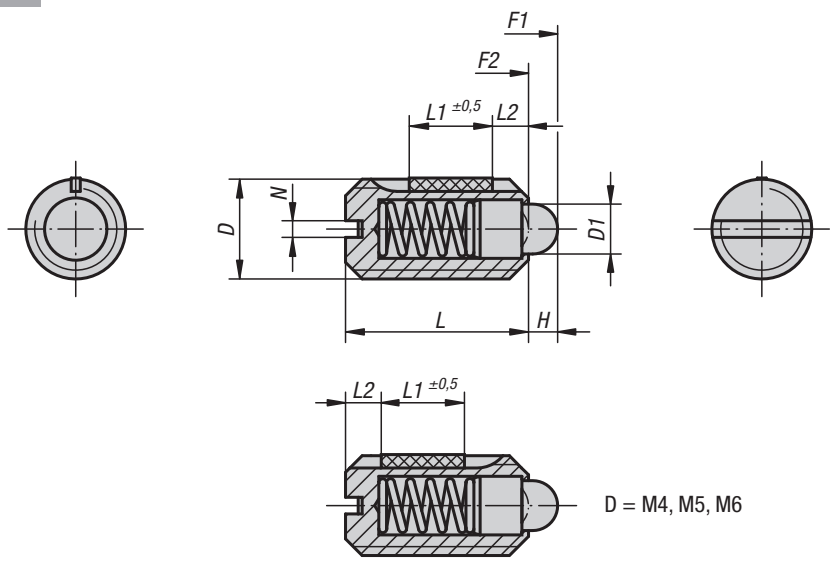
KIPP Spring plungers with slot and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	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	12	6	2	0,8	9	25	0,12	0,08
K0323.206	M6	2,7	14	7	2	1	11	25	0,44	0,21
K0323.208	M8	4	16	8	2	1,2	22	43	1,1	0,38
K0323.210	M10	4,5	19	9	2,5	1,6	20	54	1,36	0,62
K0323.212	M12	6	22	10	3,5	2	36	94	2,11	1,41
K0323.216	M16	8,5	24	14	4,5	2,5	60	110	3,99	3,05

K0324

Spring plungers

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



D = M4, M5, M6

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

LONG-LOK thread lock in nylon.

Version:
Bright.
Thrust pin hardened.

Sample order:
K0324.10

Drawing reference:
L2 = approx. 2x thread pitch

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

Order No.	D	D1	L	L1	H	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	9	5	1,5	0,6	6	20	0,18	0,12
K0324.05	M5	2,4	12	6	2	0,8	6	20	0,12	0,08
K0324.06	M6	2,7	14	7	2	1	7	20	0,44	0,21
K0324.08	M8	4	16	8	2	1,2	15	30	1,1	0,38
K0324.10	M10	4,5	19	9	2,5	1,6	20	35	1,36	0,62
K0324.12	M12	6	22	10	3,5	2	30	55	2,11	1,41
K0324.16	M16	8,5	24	14	4,5	2,5	45	100	3,95	3,05

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

Order No.	D	D1	L	L1	H	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	9	5	1,5	0,6	3	10	0,18	0,12
K0324.105	M5	2,4	12	6	2	0,8	3	10	0,12	0,08
K0324.106	M6	2,7	14	7	2	1	4	10	0,44	0,21
K0324.108	M8	4	16	8	2	1,2	7	15	1,1	0,38
K0324.110	M10	4,5	19	9	2,5	1,6	9	16	1,36	0,62
K0324.112	M12	6	22	10	3,5	2	14	26	2,11	1,41
K0324.116	M16	8,5	24	14	4,5	2,5	22	50	3,95	3,05

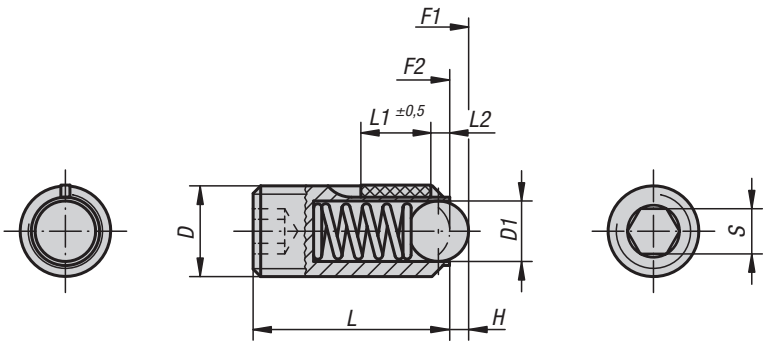
KIPP Spring plungers with slot and thrust pin, reinforced spring force, LONG-LOK secured

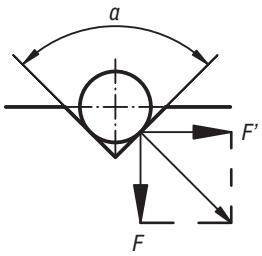
Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0324.205	M5	2,4	12	6	2	0,8	9	25	0,12	0,08
K0324.206	M6	2,7	14	7	2	1	11	25	0,44	0,21
K0324.208	M8	4	16	8	2	1,2	22	43	1,1	0,38
K0324.210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

K0325

Spring plungers

with hexagon socket and ball, LONG-LOK secured, 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 steel grade D.

LONG-LOK thread lock nylon.

Version:
Black oxidised. Ball hardened.

Sample order:
K0325.08

Drawing reference:
L2 = approx. 2x thread pitch

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

Order No.	D	D1	L	L1	H	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	9	4	0,4	1,5	1,5	3	0,1	0,07
K0325.04	M4	2,5	10	5	0,8	2	4	10	0,18	0,12
K0325.05	M5	3	14	6	0,9	2,5	6	11	0,12	0,08
K0325.06	M6	3,5	15	7	1	3	9	13	0,44	0,21
K0325.08	M8	5	18	8	1,5	4	15	30	1,1	0,38
K0325.10	M10	6	23	9	2	5	20	35	1,3	0,6
K0325.12	M12	8	26	10	2,5	6	30	55	2	1,3
K0325.16	M16	10	33	14	3,5	8	65	125	3,9	3

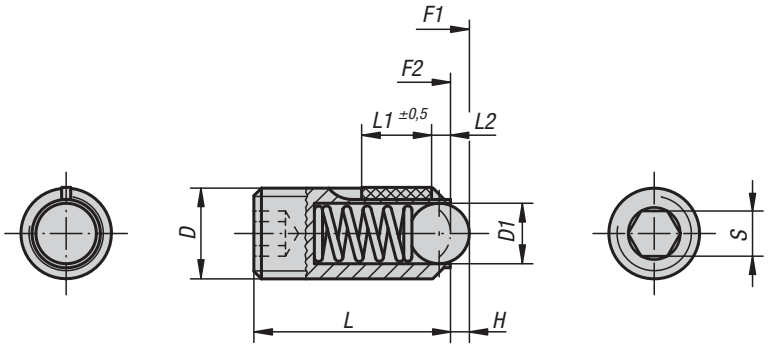
KIPP Spring plungers with hexagon socket and ball, reinforced spring, LONG-LOK secured

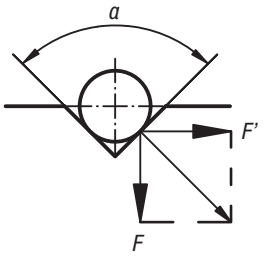
Order No.	D	D1	L	L1	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0325.203	M3	1,5	9	4	0,4	1,5	5	7	0,1	0,07
K0325.204	M4	2,5	10	5	0,8	2	12	22	0,18	0,12
K0325.205	M5	3	14	6	0,9	2,5	19	30	0,12	0,08
K0325.206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

K0326

Spring plungers

with hexagon socket and ball, LONG-LOK secured 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.

LONG-LOK thread lock in nylon.

Version:
Bright. Ball hardened.

Sample order:
K0326.08

Drawing reference:
L2 = approx. 2x thread pitch

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

Order No.	D	D1	L	L1	H	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	9	4	0,4	1,5	1,5	3	0,1	0,07
K0326.04	M4	2,5	10	5	0,8	2	4	10	0,18	0,12
K0326.05	M5	3	14	6	0,9	2,5	6	11	0,12	0,08
K0326.06	M6	3,5	15	7	1	3	9	13	0,44	0,21
K0326.08	M8	5	18	8	1,5	4	15	30	1,1	0,38
K0326.10	M10	6	23	9	2	5	20	35	1,3	0,6
K0326.12	M12	8	26	10	2,5	6	30	55	2	1,3
K0326.16	M16	10	33	14	3,5	8	65	125	3,9	3

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

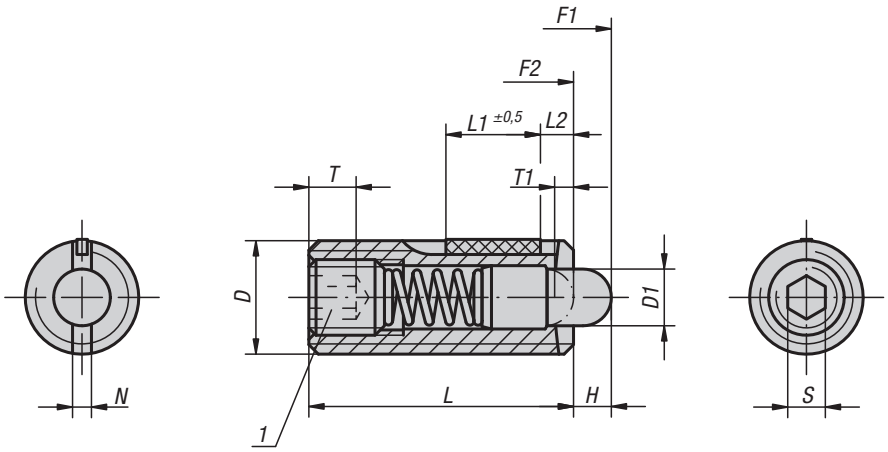
Order No.	D	D1	L	L1	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0326.203	M3	1,5	9	4	0,4	1,5	5	7	0,1	0,07
K0326.204	M4	2,5	10	5	0,8	2	12	22	0,18	0,12
K0326.205	M5	3	14	6	0,9	2,5	19	30	0,12	0,08
K0326.206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

Notes

K0327

Spring plungers

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



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

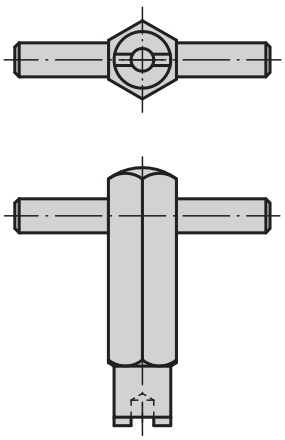
LONG-LOK thread lock nylon.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0327.12

Drawing reference:
L2 = ca. two full threads

1) glued-in grub screw



K0327

Spring plungers

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

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

Order No.	D	D1	L	L1	H	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	18	7	2,3	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K0327.06	M6	2,7	20	7	2,5	2,5	1	1	2	7	20	0,45	0,22	K0317.906
K0327.08	M8	3,5	22	8	3	3	1,4	1,2	2,5	9	35	1,05	0,37	K0317.908
K0327.10	M10	4	22	9	3	3,5	1,4	1,6	3	9	35	1,3	0,6	K0317.910
K0327.12	M12	6	28	10	4	5	2	2	4	12	55	2	1,3	K0317.912
K0327.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,9	3	K0317.916

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

Order No.	D	D1	L	L1	H	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	18	7	2,3	2	0,8	0,8	1,5	3	10	0,12	0,08	K0317.905
K0327.106	M6	2,7	20	7	2,5	2,5	1	1	2	3	9	0,45	0,22	K0317.906
K0327.108	M8	3,5	22	8	3	3	1,4	1,2	2,5	4	16	1,05	0,37	K0317.908
K0327.110	M10	4	22	9	3	3,5	1,4	1,6	3	4	16	1,3	0,6	K0317.910
K0327.112	M12	6	28	10	4	5	2	2	4	5	27	2	1,3	K0317.912
K0327.116	M16	7,5	32	14	5	6	2,5	2,5	5	20	45	3,9	3	K0317.916

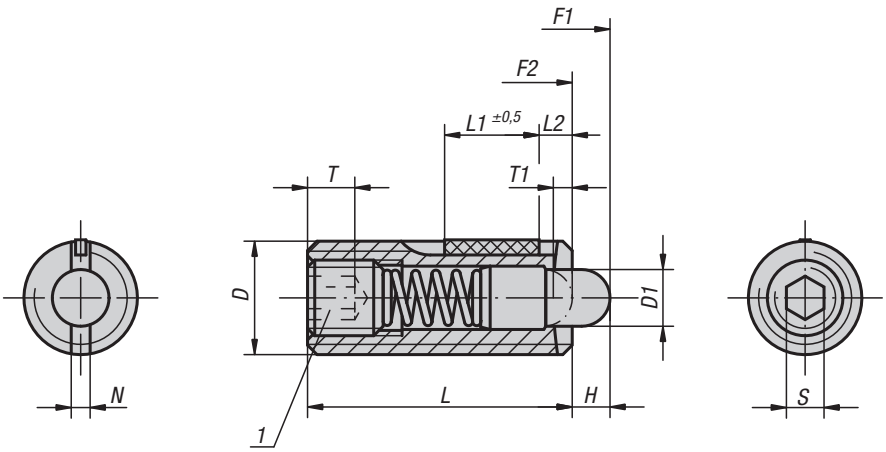
KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	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	18	7	2,3	2	0,8	0,8	1,5	11	29	0,12	0,08	K0317.905
K0327.206	M6	2,7	20	7	2,5	2,5	1	1	2	14	37	0,45	0,22	K0317.906
K0327.208	M8	3,5	22	8	3	3	1,4	1,2	2,5	22	65	1,05	0,37	K0317.908
K0327.210	M10	4	22	9	3	3,5	1,4	1,6	3	19	70	1,3	0,6	K0317.910
K0327.212	M12	6	28	10	4	5	2	2	4	25	85	2	1,3	K0317.912
K0327.216	M16	7,5	32	14	5	6	2,5	2,5	5	60	150	3,9	3	K0317.916

K0328

Spring plungers

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



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

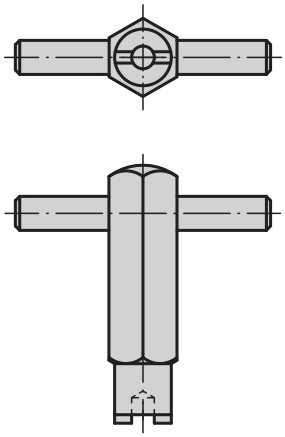
LONG-LOK thread lock nylon.

Version:
Black oxidised.

Sample order:
K0328.12

Drawing reference:
L2 = ca. two full threads

1) glued-in grub screw



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

Order No.	D	D1	L	L1	H	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	18	7	2,3	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K0328.06	M6	2,7	20	7	2,5	2,5	1	1	2	7	20	0,45	0,22	K0317.906
K0328.08	M8	3,5	22	8	3	3	1,4	1,2	2,5	9	35	1,05	0,37	K0317.908
K0328.10	M10	4	22	9	3	3,5	1,4	1,6	3	9	35	1,3	0,6	K0317.910
K0328.12	M12	6	28	10	4	5	2	2	4	12	55	2	1,3	K0317.912
K0328.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,9	3	K0317.916

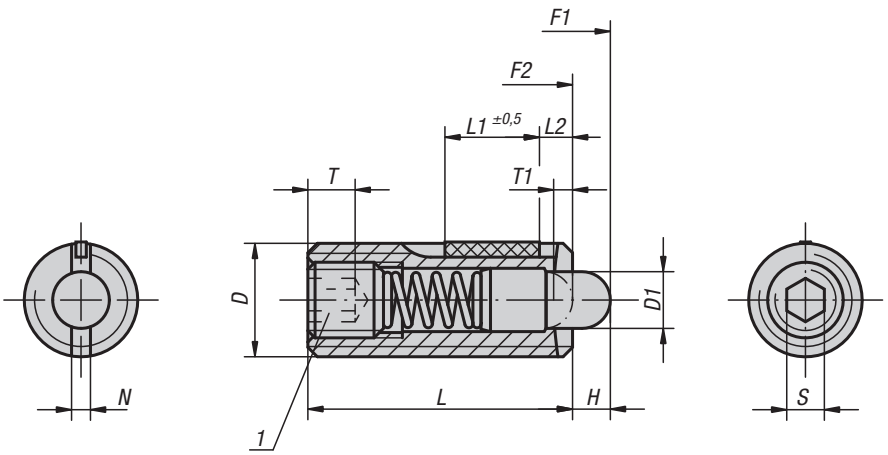
KIPP Spring plungers with hexagon socket and thrust pin, light spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	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	18	7	2,3	2	0,8	0,8	1,5	3	10	0,12	0,08	K0317.905
K0328.106	M6	2,7	20	7	2,5	2,5	1	1	2	3	9	0,45	0,22	K0317.906
K0328.108	M8	3,5	22	8	3	3	1,4	1,2	2,5	4	16	1,05	0,37	K0317.908
K0328.110	M10	4	22	9	3	3,5	1,4	1,6	3	4	16	1,3	0,6	K0317.910
K0328.112	M12	6	28	10	4	5	2	2	4	5	27	2	1,3	K0317.912
K0328.116	M16	7,5	32	14	5	6	2,5	2,5	5	20	45	3,9	3	K0317.916

K0329

Spring plungers

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



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

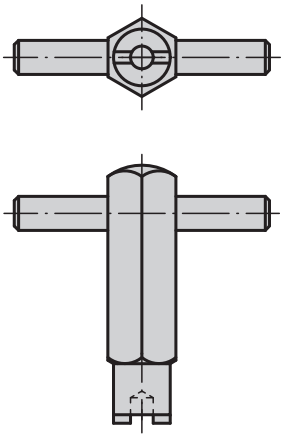
LONG-LOK thread lock in nylon.

Version:
Bright.
Thrust pin hardened.

Sample order:
K0329.12

Drawing reference:
L2 = ca. two full threads

1) glued-in grub screw



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

Order No.	D	D1	L	L1	H	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	18	7	2,3	2	0,8	0,8	1,5	5	17	0,12	0,08	K0317.905
K0329.06	M6	2,7	20	7	2,5	2,5	1	1	2	6	17	0,45	0,22	K0317.906
K0329.08	M8	3,5	22	8	3	3	1,4	1,2	2,5	7	29	1,05	0,37	K0317.908
K0329.10	M10	4	22	9	3	3,5	1,4	1,6	3	8	31	1,3	0,6	K0317.910
K0329.12	M12	6	28	10	4	5	2	2	4	10	47	2	1,3	K0317.912
K0329.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,9	3	K0317.916

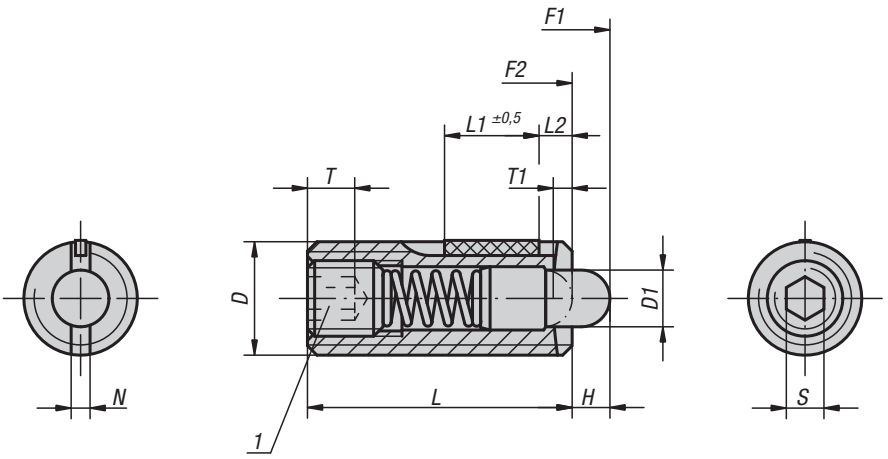
KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	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	18	7	2,3	2	0,8	0,8	1,5	9	26	0,12	0,08	K0317.905
K0329.206	M6	2,7	20	7	2,5	2,5	1	1	2	11	35	0,45	0,22	K0317.906
K0329.208	M8	3,5	22	8	3	3	1,4	1,2	2,5	15	48	1,05	0,37	K0317.908
K0329.210	M10	4	22	9	3	3,5	1,4	1,6	3	15	58	1,3	0,6	K0317.910
K0329.212	M12	6	28	10	4	5	2	2	4	19	74	2	1,3	K0317.912

K0330

Spring plungers

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



Material:
Stainless steel sleeve 1.4305.
Thrust pin POM.
Stainless steel spring 1.4310.

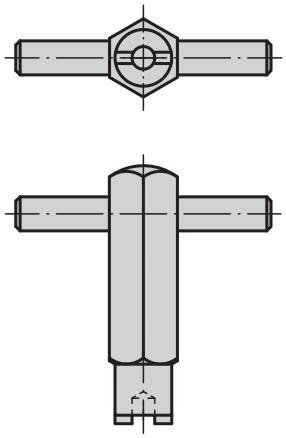
LONG-LOK thread lock nylon.

Version:
Bright.

Sample order:
K0330.12

Drawing reference:
L2 = ca. two full threads

1) glued-in grub screw



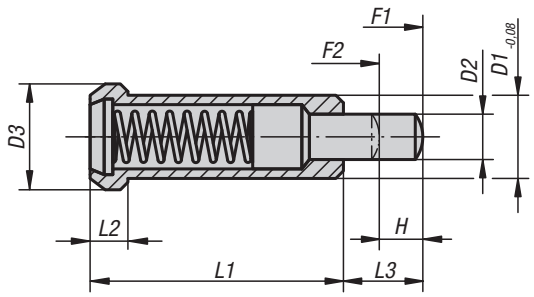
KIPP Spring plungers with hexagon socket and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	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	18	7	2,3	2	0,8	0,8	1,5	5	17	0,12	0,08	K0317.905
K0330.06	M6	2,7	20	7	2,5	2,5	1	1	2	6	17	0,45	0,22	K0317.906
K0330.08	M8	3,5	22	8	3	3	1,4	1,2	2,5	7	29	1,05	0,37	K0317.908
K0330.10	M10	4	22	9	3	3,5	1,4	1,6	3	8	31	1,3	0,6	K0317.910
K0330.12	M12	6	28	10	4	5	2	2	4	10	47	2	1,3	K0317.912
K0330.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,9	3	K0317.916

K0331

Spring plungers

with head

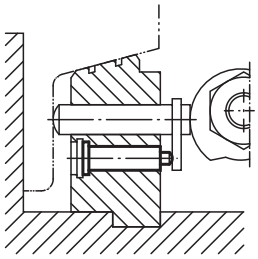


Material:
Steel.

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.

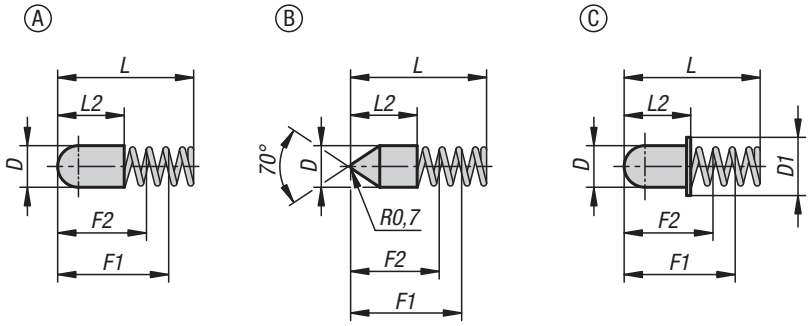


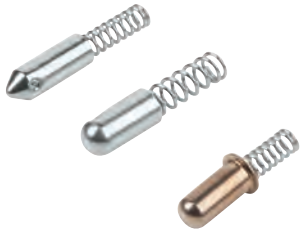
KIPP Spring plungers with head

Order No.	D1	D2	D3	L1	L2	L3	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0331.06	6	2,95	8	20	3,2	6	3,5	10	22
K0331.08	8	3,95	10	24	3,2	8	4,5	30	90
K0331.10	10	5,95	13	30	4	10	5,5	42	110
K0331.12	12	7,95	16	36	5	12	6,5	50	130

K1277

Spring sleeves





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

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

Sample order:
K1277.112216

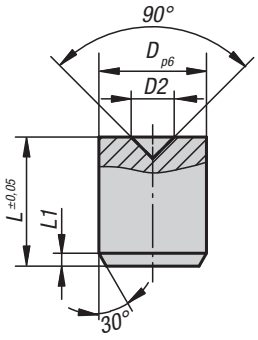
Note:
Spring sleeves are mainly used as indexing and positioning elements.

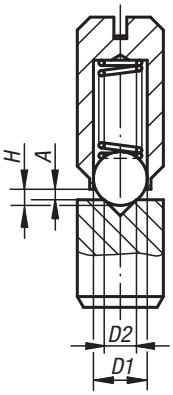
KIPP Spring sleeves

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	3	4,1	13	7	10	8,9	5,3	7,2	1,75

K0332

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.

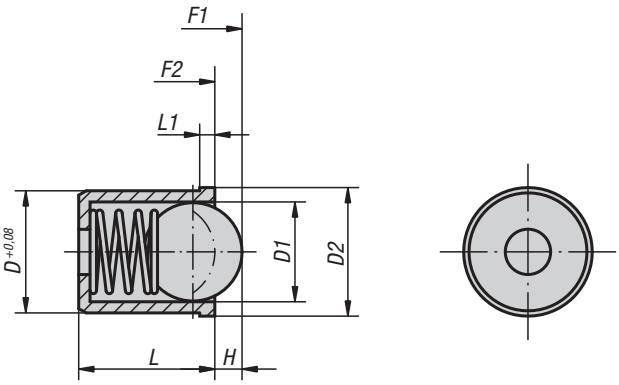
KIPP Locators

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

K0333

Spring plungers

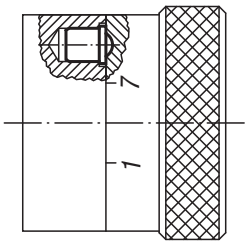
smooth version, stainless steel



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

Version:
Sleeve bright.
Ball hardened, bright.

Sample order:
K0333.05



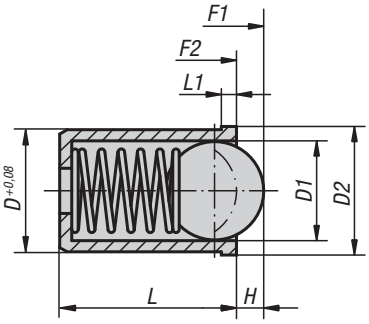
KIPP Spring plungers smooth version, stainless steel

Order No.	Component material	D	D1	D2	L	L1	H	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	1,5	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

K0333

Spring plungers

smooth version, extended, stainless steel



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

Version:
Sleeve bright.
Ball hardened, bright.

Sample order:
K0333.104

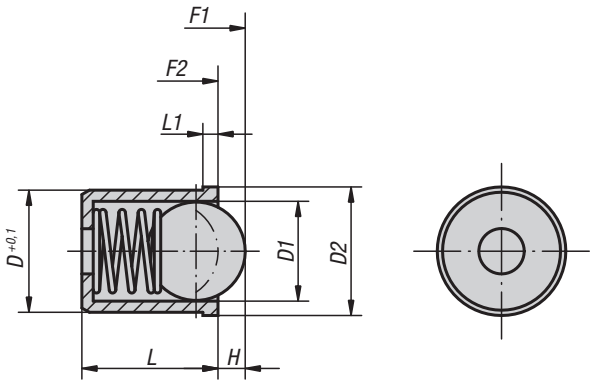
KIPP Spring plungers smooth version, extended, stainless steel

Order No.	Component material	D	D1	D2	L	L1	H	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	3,2	54	122
K0333.404	POM	4	3	4,6	9	1	0,8	12	22
K0333.405	POM	5	4	5,6	12	1	1	19	30
K0333.406	POM	6	5	6,5	14	1	1,5	22	40
K0333.408	POM	8	6	8,5	16	1	1,8	42	73
K0333.410	POM	10	8	12	22	2,5	2,7	54	100
K0333.412	POM	12	10	14	24	2,5	3,2	54	122

K0334

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

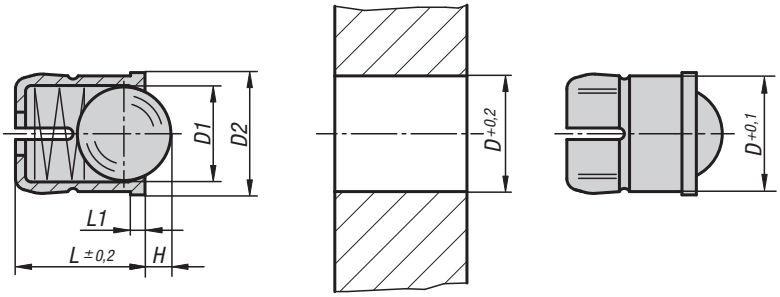
KIPP Spring plungers smooth version, plastic

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

K1171

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.

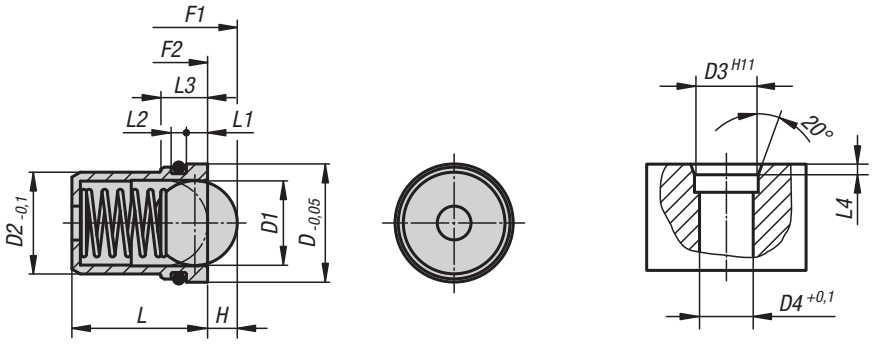
KIPP Spring plungers, smooth version, self-locking, plastic

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

K0582

Spring plungers

with detent ring



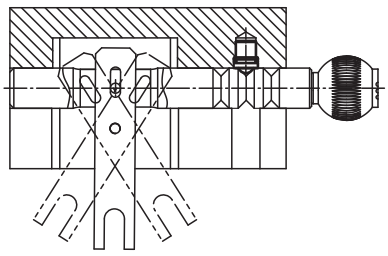
Material:
Sleeve, spring and ball in stainless steel.
O-ring NBR.

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.



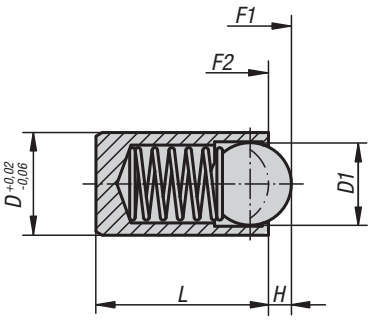
KIPP Spring plungers with detent ring

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

K0335

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

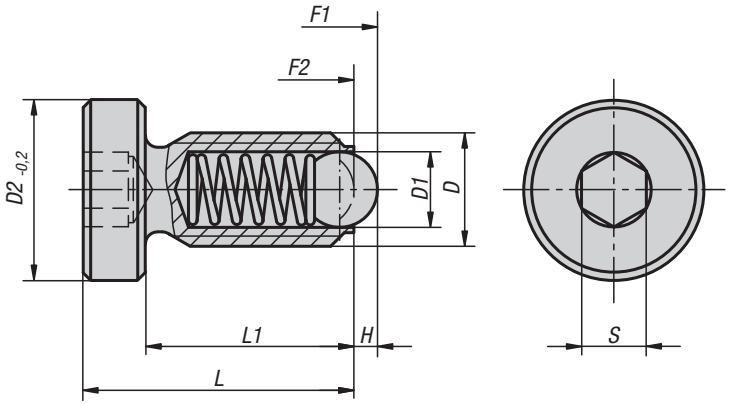
KIPP Spring plungers smooth version, without collar, stainless steel

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

K0336

Spring plungers

with head



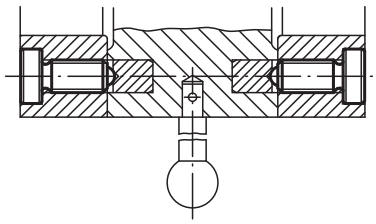
Material:
Free cutting steel or stainless steel.

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

Sample order:
K0336.10

KIPP Spring plungers with head

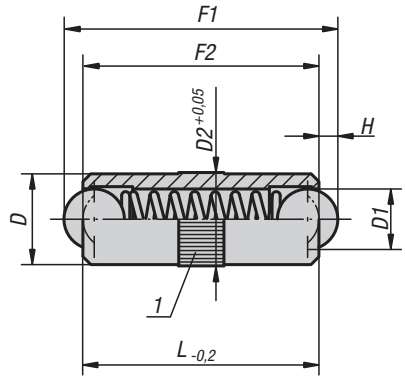
Order No. Free-cutting steel	Order No. Stainless steel	D	D1	D2	L	L1	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0336.06	K0336.061	M6	3,5	10	16	12	1	3	9	13
K0336.08	K0336.081	M8	5	13	21	16	1,5	4	15	30
K0336.10	K0336.101	M10	6	16	26	20	2	5	20	35
K0336.12	K0336.121	M12	8	18	32	25	2,5	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

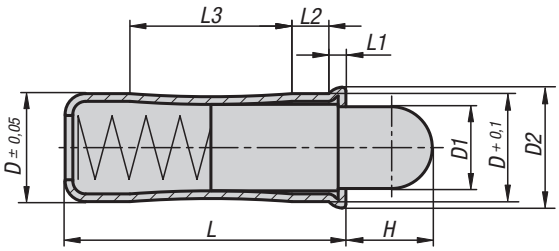
KIPP Spring plungers smooth version, double-sided

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

K1172

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

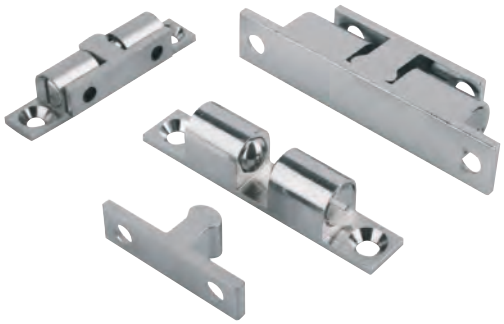
Note:
Smooth version to press-in.
A H7 tolerance is recommended for the receiving hole with diameter D.

KIPP Spring plungers, smooth version

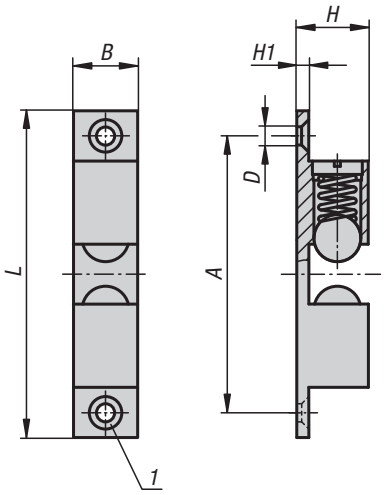
Order No.	Component material	D	D1	D2	L	L1	L2	L3	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1172.04	stainless steel	4	2,8	4,6	10,7	0,9	1,8	5,6	2,7	3	8,2
K1172.05	stainless steel	5	3,8	5,6	12	0,9	2,1	6	4	3,3	9
K1172.06	stainless steel	6	4,8	6,5	15	1	2,3	8,2	5,5	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

K0583

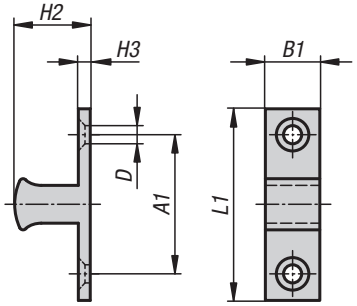
Double ball catch



housing



latch bracket



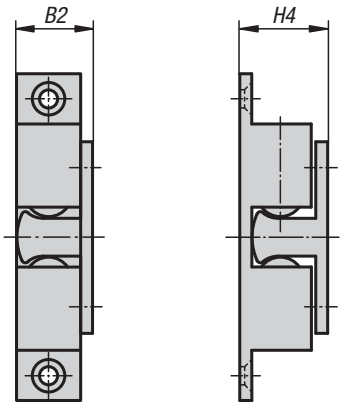
Material, version:
Housing and latch chrome plated brass.
Balls and springs stainless steel.

Sample order:
K0583.50

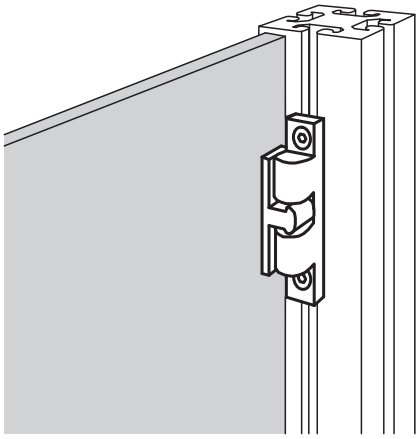
Note:
Quick catch for various applications such as holding doors, hatches, screens etc. closed. The double ball catch consists of a housing and a latch bracket that engages between the two balls. The latch bracket can engage from the front or the side. The engagement pressure is adjustable.

Drawing reference:
1) counterbore DIN 74-A

catch



from side from front



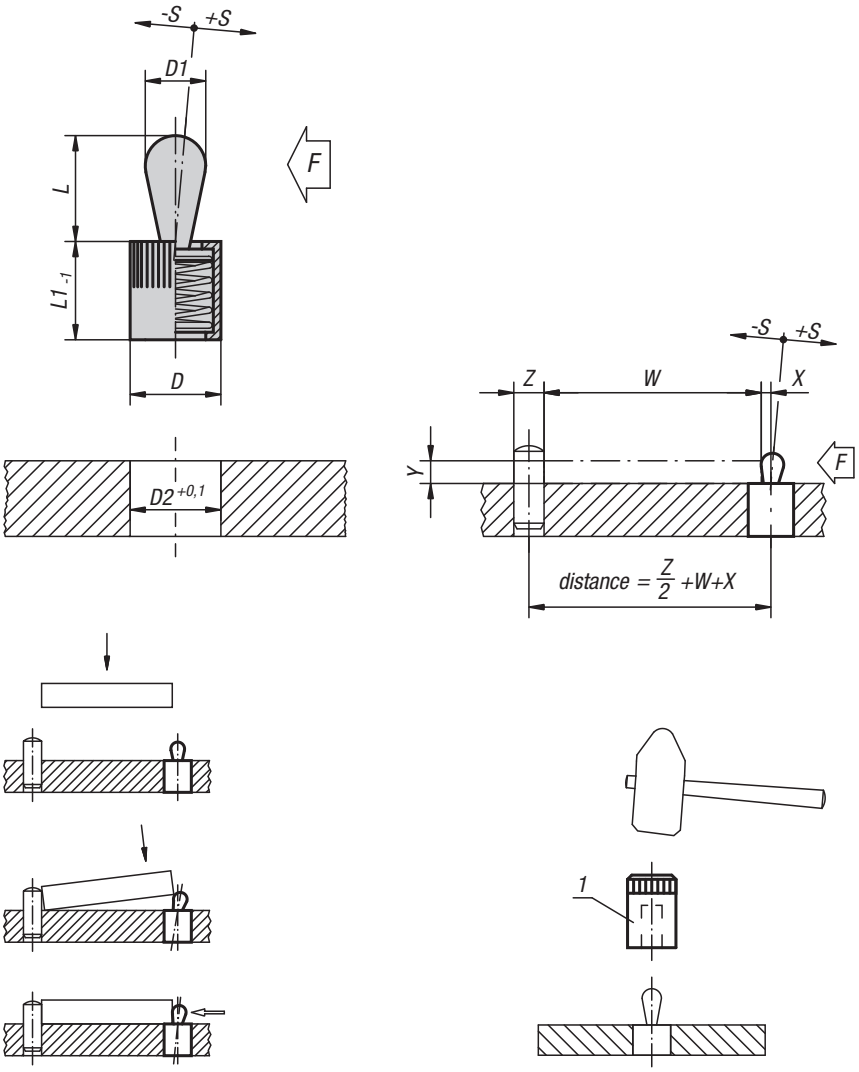
KIPP Double ball catch

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

Notes

K0368

Lateral spring plungers



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

Version:
Thrust pin (steel) hardened and galvanized.
Sleeve blue galvanized.

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	4	7	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.21036	6	3	4	7	6	0,5	20	0,8	1	1	1	1	1	K0369.03
K0368.21038	6	3	4	7	6	0,5	40	0,8	1	1	1	1	1	K0369.03
K0368.21054	10	5	6,7	11	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.21056	10	5	6,7	11	10	0,8	50	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.21058	10	5	6,7	11	10	0,8	100	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.21064	10	6	10,7	11	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.21066	10	6	10,7	11	10	1	75	-	-	-	1,7	1,9	1,9	K0369.05
K0368.21068	10	6	10,7	11	10	1	100	-	-	-	1,7	1,9	1,9	K0369.05
K0368.21084	12	8	13,9	13	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.21086	12	8	13,9	13	12	1,3	100	-	-	-	-	2,5	2,7	K0369.08
K0368.21088	12	8	13,9	13	12	1,3	150	-	-	-	-	2,5	2,7	K0369.08
K0368.21104	16	10	16,7	17	16	1,6	100	-	-	-	-	-	3,1	K0369.10
K0368.21106	16	10	16,7	17	16	1,6	150	-	-	-	-	-	3,1	K0369.10
K0368.21108	16	10	16,7	17	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	4	7	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.22036	6	3	4	7	6	0,5	20	0,8	1	1	1	1	1	K0369.03
K0368.22038	6	3	4	7	6	0,5	40	0,8	1	1	1	1	1	K0369.03
K0368.22054	10	5	6	12	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.22056	10	5	6	12	10	0,8	50	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.22058	10	5	6	12	10	0,8	100	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.22064	10	6	10	12	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.22066	10	6	10	12	10	1	75	-	-	-	1,7	1,9	1,9	K0369.05
K0368.22068	10	6	10	12	10	1	100	-	-	-	1,7	1,9	1,9	K0369.05
K0368.22084	12	8	13	14	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.22086	12	8	13	14	12	1,3	100	-	-	-	-	2,5	2,7	K0369.08
K0368.22088	12	8	13	14	12	1,3	150	-	-	-	-	2,5	2,7	K0369.08
K0368.22104	16	10	16	18	16	1,6	100	-	-	-	-	-	3,1	K0369.10
K0368.22106	16	10	16	18	16	1,6	150	-	-	-	-	-	3,1	K0369.10
K0368.22108	16	10	16	18	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	4	7	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.71054	10	5	6,7	11	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.71064	10	6	10,7	11	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.71084	12	8	13,9	13	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.71104	16	10	16,7	17	16	1,6	100	-	-	-	-	-	3,1	K0369.10

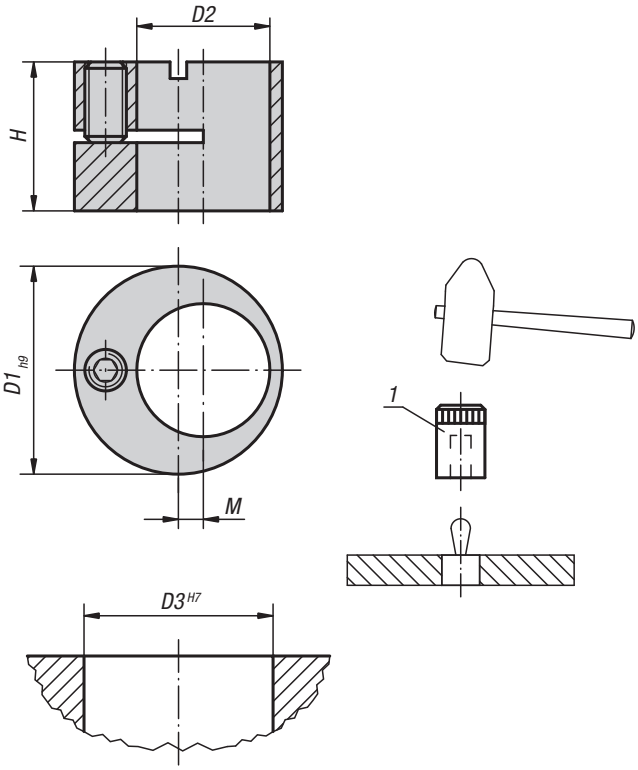
KIPP Lateral spring plungers with seal, thrust pin POM, spring steel

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	4	7	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.72054	10	5	6	12	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.72064	10	6	10	12	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.72084	12	8	13	14	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.72104	16	10	16	18	16	1,6	100	-	-	-	-	-	3,1	K0369.10

K0369

Eccentric bushes and assembly tool

for lateral spring plungers.



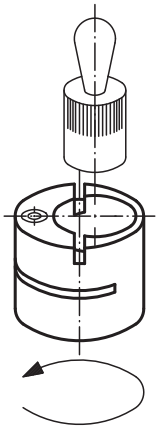
Material:
Steel.

Version:
Black oxidised.

Sample order:
K0369.180

Note:
Offset bushes enable lateral spring plungers to be positioned exactly to the workpiece.

Drawing reference:
1) assembly tool



KIPP Assembly tools

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

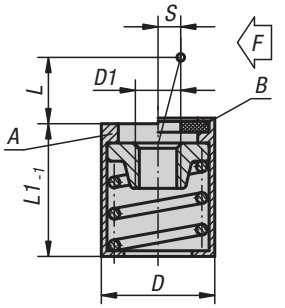
KIPP Offset bushes for lateral spring plungers

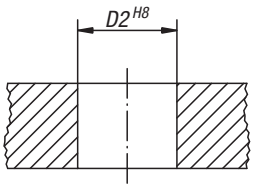
Order No.	D1	D2	D3	H	M	Suitable for lateral spring plungers with D =
K0369.120	12	6	12	9,9	2	6
K0369.160	16	10	16	11,9	2	10
K0369.180	18	12	18	13,9	2	12
K0369.250	25	16	25	17,9	3	16

K0370

Lateral spring plungers

without thrust pin





Material:
Sleeve aluminium.
Receiving washer steel.
Spring steel.

Version:
Sleeve blue galvanized.
Receiving 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 (L).
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	4	12	1,6	20
K0370.31056	A	10	M4	10	4	12	1,6	50
K0370.31058	A	10	M4	10	4	12	1,6	100
K0370.31064	A	10	M4	10	7,5	12	2	40
K0370.31066	A	10	M4	10	7,5	12	2	75
K0370.31068	A	10	M4	10	7,5	12	2	100
K0370.31104	A	16	M6	16	11,5	18	3,2	100
K0370.31106	A	16	M6	16	11,5	18	3,2	150
K0370.31108	A	16	M6	16	11,5	18	3,2	200

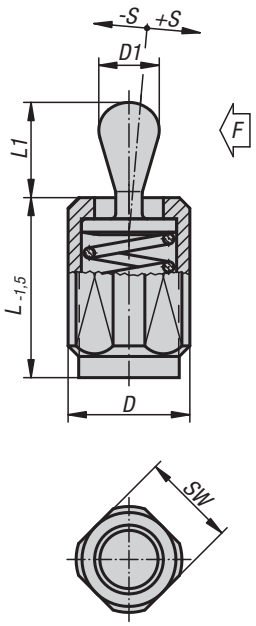
KIPP Lateral spring plungers without thrust pins, Form B, with seal

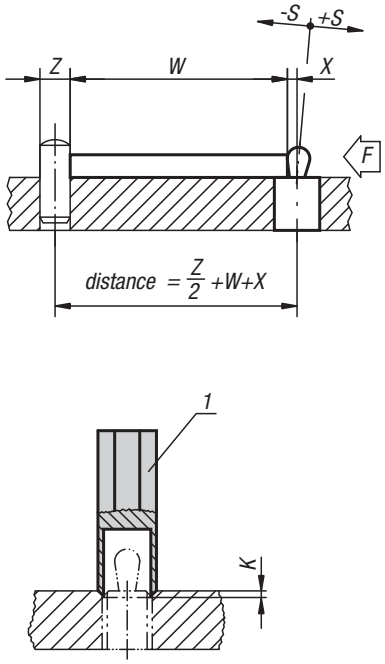
Order No.	Form	D	D1	D2	L	L1	S	F ca.N
K0370.32054	B	10	M4	10	4	12	1,6	20
K0370.32056	B	10	M4	10	4	12	1,6	50
K0370.32058	B	10	M4	10	4	12	1,6	100
K0370.32064	B	10	M4	10	7,5	12	2	40
K0370.32066	B	10	M4	10	7,5	12	2	75
K0370.32068	B	10	M4	10	7,5	12	2	100
K0370.32104	B	16	M6	16	11,5	18	3,2	100
K0370.32106	B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

K0371

Lateral spring plungers

with threaded sleeve





Material:
Steel.

Version:
Thrust pin steel, hardened and galvanized.
Sleeve blue galvanized.

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

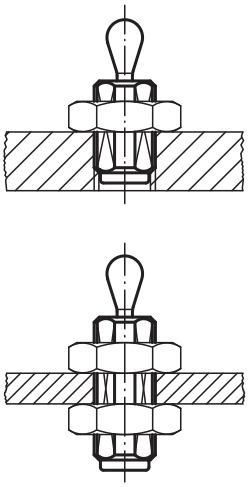
KIPP Lateral spring plungers without seal

Order No.	L	L1	D	D1	±S	F ca.N	X	SW	K	Order No. assembly tool
K0371.1020X12	11,5	6,7	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.1020X20	19	6,7	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.1020X27	26,5	6,7	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.1050X12	11,5	6,7	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.1050X20	19	6,7	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.1050X27	26,5	6,7	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.1100X12	11,5	6,7	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.1100X20	19	6,7	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.1100X27	26,5	6,7	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.1040X12	11,5	10,7	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.1040X20	19	10,7	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.1040X27	26,5	10,7	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.1075X12	11,5	10,7	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.1075X20	19	10,7	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.1075X27	26,5	10,7	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.1150X12	11,5	10,7	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.1150X20	19	10,7	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.1150X27	26,5	10,7	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.1100X16	18	16,7	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.1100X29	31,5	16,7	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.1100X43	45	16,7	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.1200X16	18	16,7	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.1200X29	31,5	16,7	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.1200X43	45	16,7	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.1300X16	18	16,7	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10
K0371.1300X29	31,5	16,7	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10
K0371.1300X43	45	16,7	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10

K0371

Lateral spring plungers

with threaded sleeve



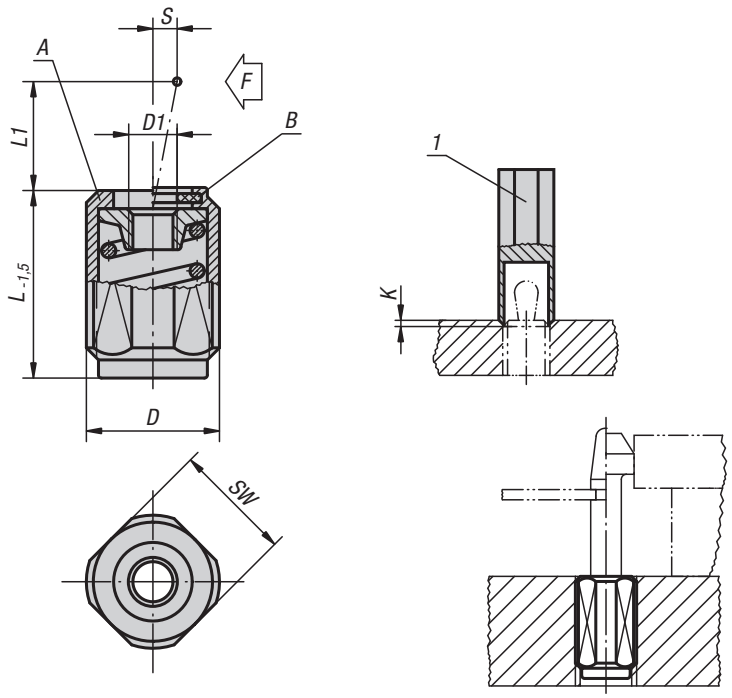
KIPP Lateral spring plungers with seal

Order No.	L	L1	D	D1	±S	F ca.N	X	SW	K	Order No. assembly tool
K0371.3020X12	11,5	6	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.3020X20	19	6	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.3020X27	26,5	6	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.3050X12	11,5	6	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.3050X20	19	6	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.3050X27	26,5	6	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.3100X12	11,5	6	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.3100X20	19	6	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.3100X27	26,5	6	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.3040X12	11,5	10	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.3040X20	19	10	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.3040X27	26,5	10	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.3075X12	11,5	10	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.3075X20	19	10	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.3075X27	26,5	10	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.3150X12	11,5	10	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.3150X20	19	10	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.3150X27	26,5	10	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.3100X16	18	16	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.3100X29	31,5	16	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.3100X43	45	16	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.3200X16	18	16	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.3200X29	31,5	16	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.3200X43	45	16	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.3300X16	18	16	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10
K0371.3300X29	31,5	16	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10
K0371.3300X43	45	16	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10

K0372

Lateral spring plungers

with threaded sleeve, without thrust pin



Material:
Steel.

Version:
Sleeve blue galvanized.
Receiving 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 (L).
Form B has a seal to keep swarf and dirt out.

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

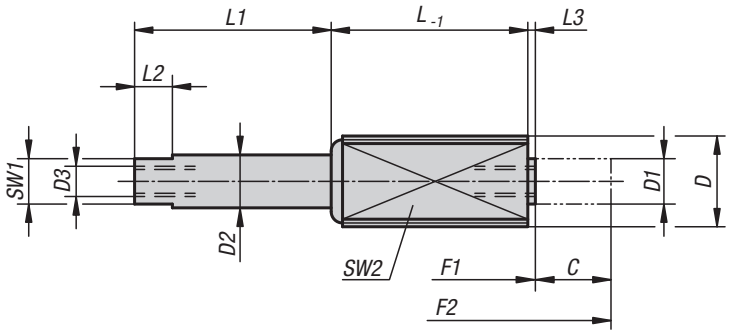
1) assembly tool

KIPP Lateral spring plungers with threaded sleeve, without thrust pin

Order No. A	Order No. B	L	L1	D	D1	±S	F ca.N	SW	K	Order No. assembly tool
K0372.1020X12	K0372.2020X12	11,5	4	M12	M4	1,6	20	10	2x60°	K0371.06
K0372.1020X20	K0372.2020X20	19	4	M12	M4	1,6	20	10	2x60°	K0371.06
K0372.1020X27	K0372.2020X27	26,5	4	M12	M4	1,6	20	10	2x60°	K0371.06
K0372.1040X12	K0372.2040X12	11,5	7,5	M12	M4	2	40	10	2x60°	K0371.06
K0372.1040X20	K0372.2040X20	19	7,5	M12	M4	2	40	10	2x60°	K0371.06
K0372.1040X27	K0372.2040X27	26,5	7,5	M12	M4	2	40	10	2x60°	K0371.06
K0372.1050X12	K0372.2050X12	11,5	4	M12	M4	1,6	50	10	2x60°	K0371.06
K0372.1050X20	K0372.2050X20	19	4	M12	M4	1,6	50	10	2x60°	K0371.06
K0372.1050X27	K0372.2050X27	26,5	4	M12	M4	1,6	50	10	2x60°	K0371.06
K0372.1075X12	K0372.2075X12	11,5	7,5	M12	M4	2	75	10	2x60°	K0371.06
K0372.1075X20	K0372.2075X20	19	7,5	M12	M4	2	75	10	2x60°	K0371.06
K0372.1075X27	K0372.2075X27	26,5	7,5	M12	M4	2	75	10	2x60°	K0371.06
K0372.1100X12	K0372.2100X12	11,5	4	M12	M4	1,6	100	10	2x60°	K0371.06
K0372.1100X20	K0372.2100X20	19	4	M12	M4	1,6	100	10	2x60°	K0371.06
K0372.1100X27	K0372.2100X27	26,5	4	M12	M4	1,6	100	10	2x60°	K0371.06
K0372.1150X12	K0372.2150X12	11,5	7,5	M12	M4	2	100	10	2x60°	K0371.06
K0372.1150X20	K0372.2150X20	19	7,5	M12	M4	2	100	10	2x60°	K0371.06
K0372.1150X27	K0372.2150X27	26,5	7,5	M12	M4	2	100	10	2x60°	K0371.06
K0372.1100X16	K0372.2100X16	18	11,5	M18x1,5	M6	3,2	100	16	2,5x60°	K0371.10
K0372.1100X29	K0372.2100X29	31,5	11,5	M18x1,5	M6	3,2	100	16	2,5x60°	K0371.10
K0372.1100X43	K0372.2100X43	45	11,5	M18x1,5	M6	3,2	100	16	2,5x60°	K0371.10
K0372.1200X16	K0372.2200X16	18	11,5	M18x1,5	M6	3,2	150	16	2,5x60°	K0371.10
K0372.1200X29	K0372.2200X29	31,5	11,5	M18x1,5	M6	3,2	150	16	2,5x60°	K0371.10
K0372.1200X43	K0372.2200X43	45	11,5	M18x1,5	M6	3,2	150	16	2,5x60°	K0371.10
K0372.1300X16	K0372.2300X16	18	11,5	M18x1,5	M6	3,2	200	16	2,5x60°	K0371.10
K0372.1300X29	K0372.2300X29	31,5	11,5	M18x1,5	M6	3,2	200	16	2,5x60°	K0371.10
K0372.1300X43	K0372.2300X43	45	11,5	M18x1,5	M6	3,2	200	16	2,5x60°	K0371.10

K0373

Spring plungers push-pull



push-pull plunger

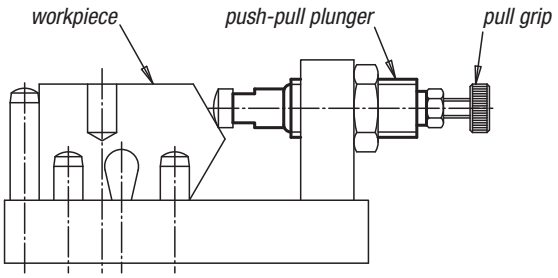
Material:
Steel.

Version:
Sleeve blue galvanized.
Spring pins black oxidised.

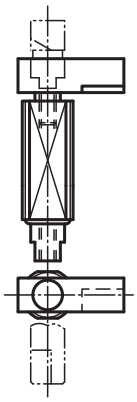
Sample order:
K0373.1202004

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.

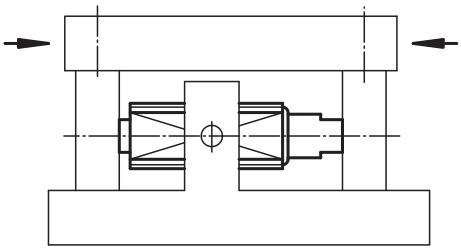
Assembly:
LOCTITE threadlocker K0655.243.... is recommended for gluing the threaded sleeve in position.



pull plunger as lock

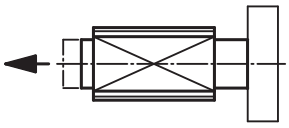


push-pull plunger as carrier

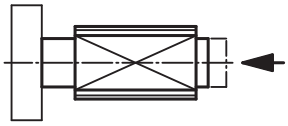


Application:

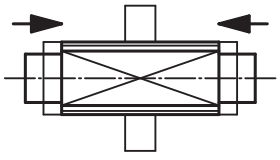
As **push plunger:**
The spring force pushes the object.



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.



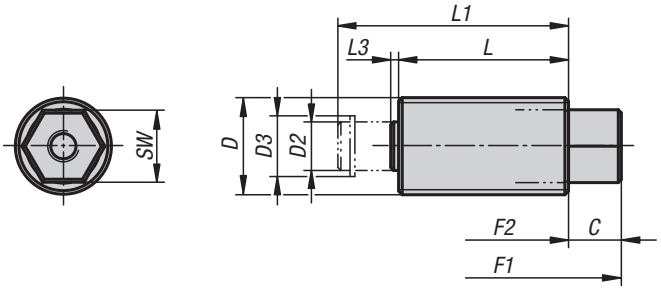
KIPP Push-Pull spring plungers

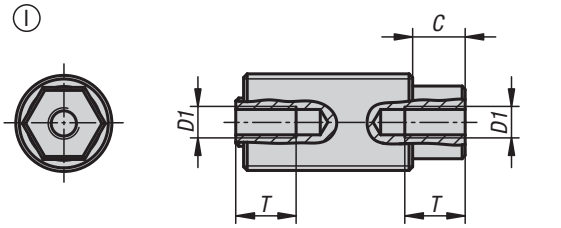
Order No.	D	D1	D2	D3	F1 (N)	F2 (N)	C (travel)	L	L1	L2	L3	SW1	SW2 square
K0373.1202004	M12	6	7	M4 x 8	5	20	3,5	11	4,5	5	1	6	10
K0373.1202006	M12	6	7	M4 x 8	5	20	6	18,5	7	5	1	6	10
K0373.1202010	M12	6	7	M4 x 8	5	20	10	26	11	5	1	6	10
K0373.1206003	M12	6	7	M4 x 8	12	40	3	11	4,5	5	1	6	10
K0373.1206005	M12	6	7	M4 x 8	12	40	5	18,5	7	5	1	6	10
K0373.1206008	M12	6	7	M4 x 8	12	40	8	26	11	5	1	6	10
K0373.1212503	M12	6	7	M4 x 8	20	100	3	11	4,5	5	1	6	10
K0373.1212505	M12	6	7	M4 x 8	20	100	5	18,5	7	5	1	6	10
K0373.1212508	M12	6	7	M4 x 8	20	100	8	26	11	5	1	6	10
K0373.1815004	M18x1,5	10	11	M6 x 12	50	150	4	17	6	6	2,5	9	16
K0373.1815007	M18x1,5	10	11	M6 x 12	50	150	7	29,5	11,5	6	2,5	9	16
K0373.1815013	M18x1,5	10	11	M6 x 12	50	150	12,5	45,5	16	6	2,5	9	16

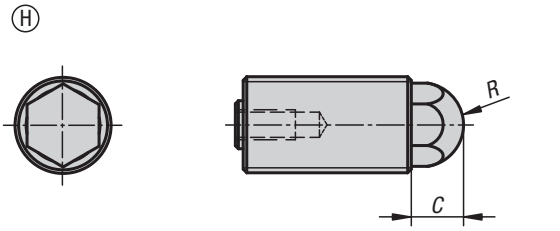
K0977

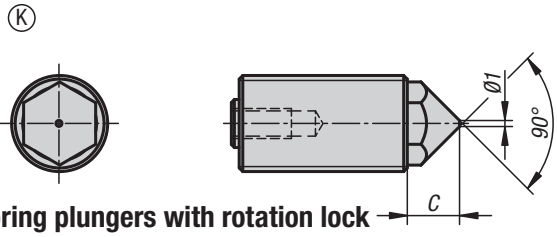
Spring plungers push-pull

with rotation lock









KIPP Push-Pull spring plungers with rotation lock

Material:
Steel.

Version:
Threaded sleeve galvanized and blue passivated.Screw case hardened and black oxidised.
Standard spring force, intensified spring force.

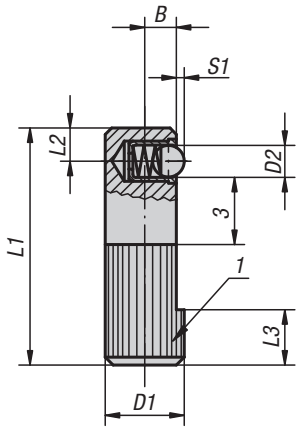
Sample order:
K0997.1112

Note:
The push-pull spring plungers, also called two-way spring plungers are used to engage, position or clamp various components. The threaded pin, which is locked against rotation by the hexagonal form can be used for traction or thrust.

Order No.	Form	Version	D	SW	D1	D2	D3	F1 (N)	F2 (N)	C (travel)	L	L1	L3	R	T min.
K0977.1112	I	standard spring force	M12x1,5	8	M4	5,5	6,78	16	38	6,12	20	27,5	1,38	-	8
K0977.1116	I	standard spring force	M16x1,5	12	M5	8	10	25	71	8,7	28	38	1,3	-	10
K0977.1120	I	standard spring force	M20x1,5	15	M6	10	12,2	40	140	10,3	34	47	2,7	-	12
K0977.1212	I	intensified spring force	M12x1,5	8	M4	5,5	6,78	20	60	6,12	20	27,5	1,38	-	8
K0977.1216	I	intensified spring force	M16x1,5	12	M5	8	10	35	103	8,7	28	38	1,3	-	10
K0977.1220	I	intensified spring force	M20x1,5	15	M6	10	12,2	60	175	10,3	34	47	2,7	-	12
K0977.2112	H	standard spring force	M12x1,5	8	M4	5,5	6,78	16	38	6,12	20	27,5	1,38	5,5	8
K0977.2116	H	standard spring force	M16x1,5	12	M5	8	10	25	71	8,7	28	38	1,3	7	10
K0977.2120	H	standard spring force	M20x1,5	15	M6	10	12,2	40	140	10,3	34	47	2,7	9	12
K0977.2212	H	intensified spring force	M12x1,5	8	M4	5,5	6,78	20	60	6,12	20	27,5	1,38	5,5	8
K0977.2216	H	intensified spring force	M16x1,5	12	M5	8	10	35	103	8,7	28	38	1,3	7	10
K0977.2220	H	intensified spring force	M20x1,5	15	M6	10	12,2	60	175	10,3	34	47	2,7	9	12
K0977.3112	K	standard spring force	M12x1,5	8	M4	5,5	6,78	16	38	6,12	20	27,5	1,38	-	8
K0977.3116	K	standard spring force	M16x1,5	12	M5	8	10	25	71	8,7	28	38	1,3	-	10
K0977.3120	K	standard spring force	M20x1,5	15	M6	10	12,2	40	140	10,3	34	47	2,7	-	12
K0977.3212	K	intensified spring force	M12x1,5	8	M4	5,5	6,78	20	60	6,12	20	27,5	1,38	-	8
K0977.3216	K	intensified spring force	M16x1,5	12	M5	8	10	35	103	8,7	28	38	1,3	-	10
K0977.3220	K	intensified spring force	M20x1,5	15	M6	10	12,2	60	175	10,3	34	47	2,7	-	12

K0374

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.

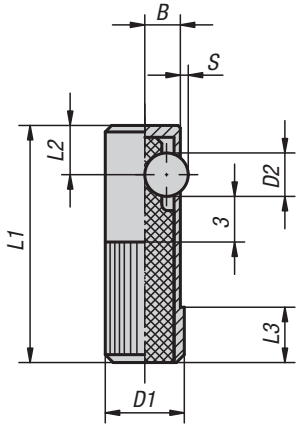
Sample order:
K0374.410

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.

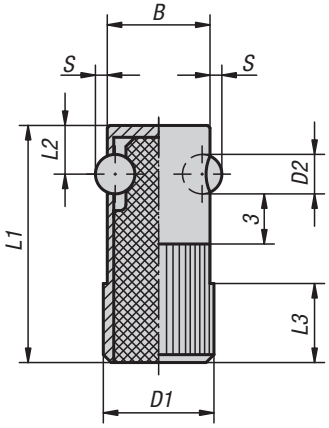
Spring force refers to a mean value.

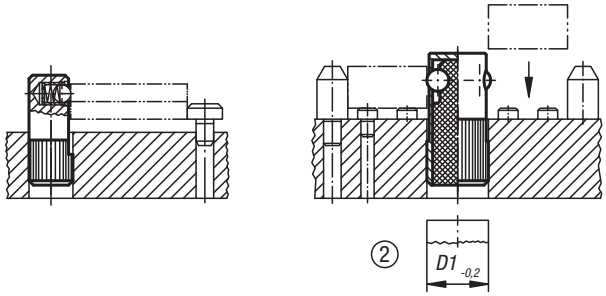
Drawing reference:
1) knurl
2) light holding

Form C
steel ball, one side
plastic spring



Form D
steel ball, both sides
plastic spring





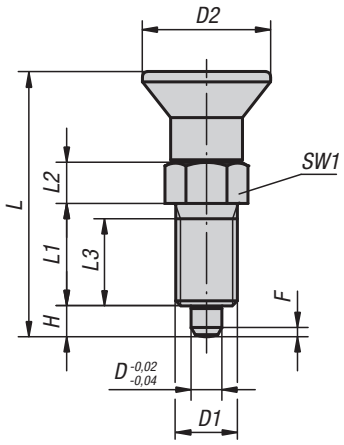
KIPP Lateral spring plungers

Order No.	Form	D1	D2	L1	L2	L3	B	S	S1	Receiving hole H8	Spring force initial N	Spring force final N
K0374.008	A	8	3	25	3,6	6	3,2	-	0,7	8	2,5	6,5
K0374.010	A	10	4	30	4,2	7	4	-	1	10	4,5	9
K0374.012	A	12	5	35	4,8	9	5	-	1,5	12	6,5	13
K0374.014	A	14	6,5	40	5,8	10	5,4	-	1,8	14	8	18
K0374.108	B	8	3	25	3,6	6	3,2	-	0,7	8	2,5	6,5
K0374.110	B	10	4	30	4,2	7	4	-	1	10	4,5	9
K0374.112	B	12	5	35	4,8	9	5	-	1,5	12	6,5	13
K0374.114	B	14	6,5	40	5,8	10	5,4	-	1,8	14	8	18
K0374.410	C	10	5,5	30	7	8	4,5	1	-	10	60	170
K0374.412	C	12	6,5	35	8	9	5,5	1,5	-	12	80	260
K0374.414	C	14	8	40	9	10	6,5	2	-	14	120	480
K0374.616	D	16	5,5	35	7	11	15	1,5	-	16	110	220
K0374.618	D	18	6,5	40	8	12	17	1,8	-	18	120	330
K0374.622	D	22	8	45	9	15	21	2,5	-	22	130	540

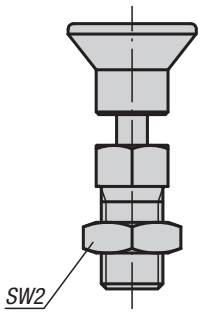
K0338

Indexing plungers

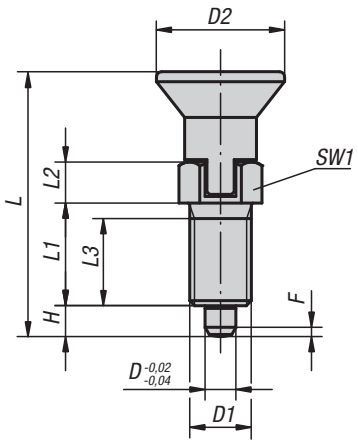
Form A
non-lockout type
without locknut



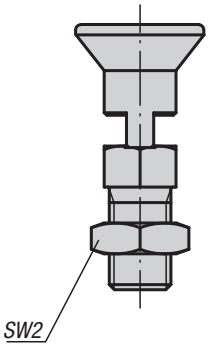
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



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

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

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

Mushroom grip black grey thermoplastic.

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

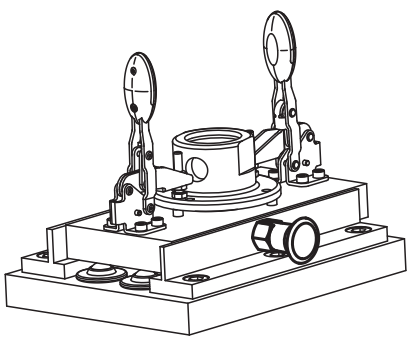
Stainless-steel version:
Indexing pin hardened, ground and bright. Threaded sleeve, bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0338.04206

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

On request:
Special versions.

Accessories:
Spacer rings K0665



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	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.1903	K0338.2903	K0338.3903	K0338.4903	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.1004	K0338.2004	K0338.3004	K0338.4004	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.1105	K0338.2105	K0338.3105	K0338.4105	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.1206	K0338.2206	K0338.3206	K0338.4206	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.1308	K0338.2308	K0338.3308	K0338.4308	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.1410	K0338.2410	K0338.3410	K0338.4410	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.1412	K0338.2412	K0338.3412	K0338.4412	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.1516	K0338.2516	K0338.3516	K0338.4516	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin hardened

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

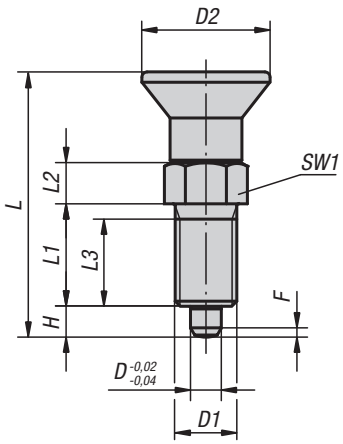
KIPP Indexing plungers, stainless steel, indexing pin not hardened

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

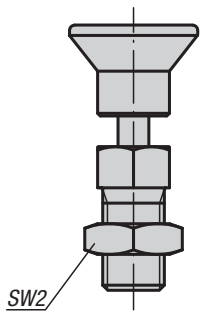
K0338

Indexing plungers

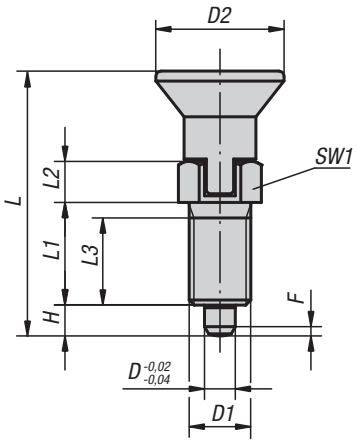
Form A
non-lockout type
without locknut



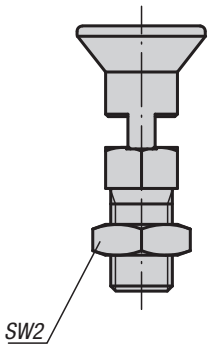
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

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

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob red thermoplastic

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

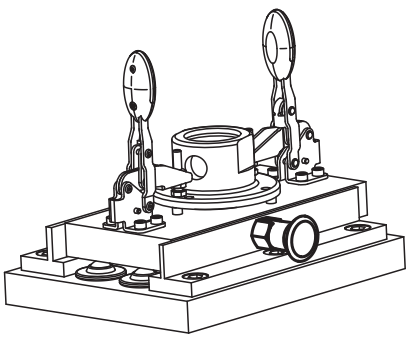
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0338.0420684

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

On request:
Special versions.

Accessories:
Spacer rings K0665



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	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.190384	K0338.290384	K0338.390384	K0338.490384	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.100484	K0338.200484	K0338.300484	K0338.400484	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.110584	K0338.210584	K0338.310584	K0338.410584	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.120684	K0338.220684	K0338.320684	K0338.420684	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.130884	K0338.230884	K0338.330884	K0338.430884	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.141084	K0338.241084	K0338.341084	K0338.441084	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.141284	K0338.241284	K0338.341284	K0338.441284	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.151684	K0338.251684	K0338.351684	K0338.451684	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin hardened

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

KIPP Indexing plungers, stainless steel, indexing pin not hardened

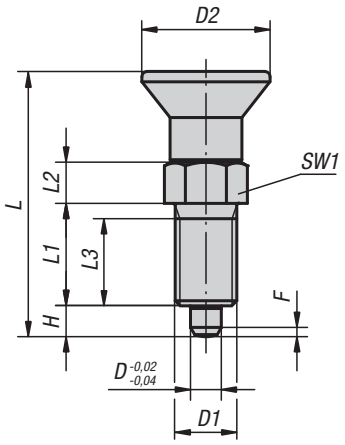
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.1190384	K0338.1290384	K0338.1390384	K0338.1490384	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.1100484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

K1096

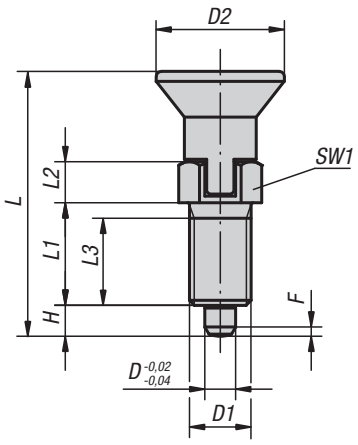
Indexing plungers

with thread lock

Form AP
non-lockout type
without locknut



Form CP
lockout type
without locknut



Material:
Steel version:
thread and indexing pin free-cutting steel

Stainless steel version:
indexing pin hardened:
threaded sleeve 1.4305
indexing pin 1.4034

Mushroom knob black grey thermoplastic.

Thread lock blue polyamide.

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

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

Sample order:
K1096.091206

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

On request:
Special versions.

Indexing plungers

with thread lock

KIPP Steel, indexing pin hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	F x 30°	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 Stainless steel, indexing pin hardened

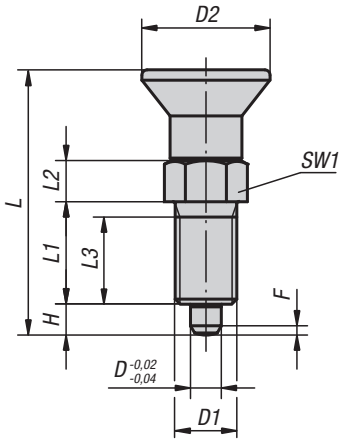
Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1096.091903	**K1096.093903**	3	M6x0,75	14	31,5	12	5	10	3,5	8	0,8	4,5	10
K1096.091004	**K1096.093004**	4	M8x1	18	38,5	15	6	13	4	10	1	6	12
K1096.091105	**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

K1149

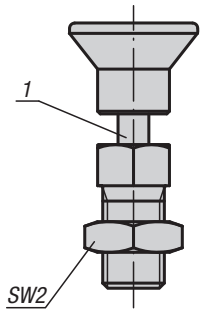
Indexing plungers

with locked mark

Form A
non-lockout type
without locknut



Form B
non-lockout type
with locknut



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

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

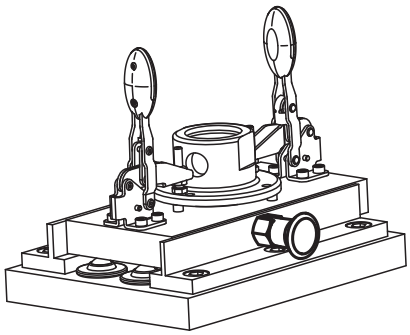
Sample order:
K1149.71105

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

On request:
Special versions.

Accessories:
Spacer rings K0665

Drawing reference:
1) marking ring



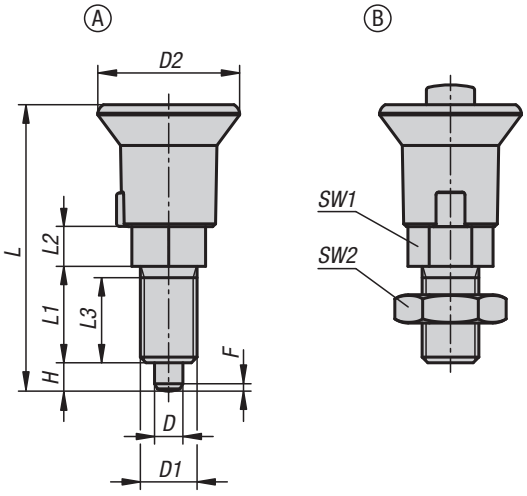
KIPP Indexing plungers with locked mark

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	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

K1213

Indexing plunger

with lock



Material:
Steel version:
threaded sleeve and indexing pin, free-cutting steel.

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

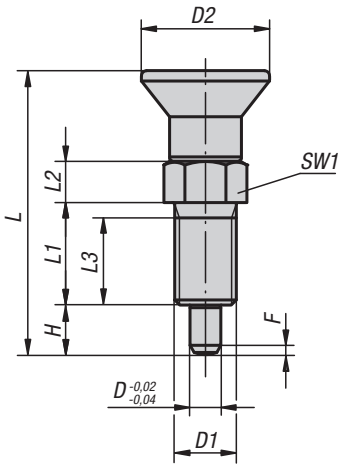
Order No. Form A	Order No. Form B	Main material	Version	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	return force N
K1213.11051	**K1213.21051**	steel	hardened	5	M10x1	25	50,5	17	7	15	5	13	-/17	1,3	8-12
K1213.12061	**K1213.22061**	steel	hardened	6	M12x1,5	25	55,5	20	8	17	6	14	-/19	1,8	4-12
K1213.13081	**K1213.23081**	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

K0630

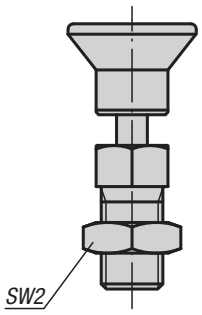
Indexing plungers

with extended indexing pin

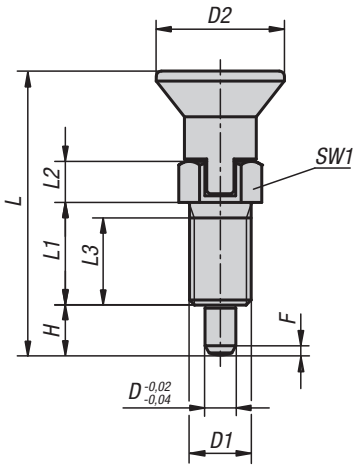
Form A
non-lockout type
without locknut



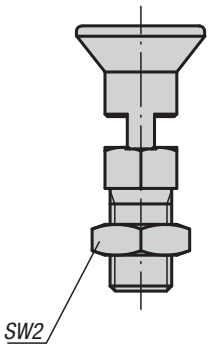
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

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

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic

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

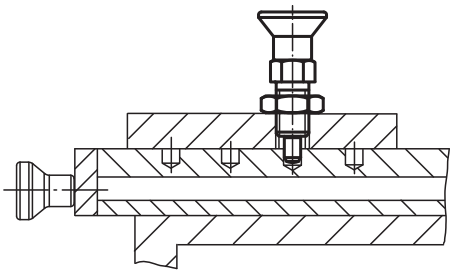
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0630.21903

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

On request:
Special versions.

Accessories:
Spacer rings K0665



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

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

Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.23105	K0630.24105	5	M10x1	21	49,5	17	10	15	8	13	-/17	1,3	5	16
K0630.23206	K0630.24206	6	M12x1,5	25	57,7	20	11	17	9	14	-/19	1,8	6	18
K0630.23308	K0630.24308	8	M16x1,5	33	76	26	14	23	12	19	-/24	2,3	15	45

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

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

Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.203105	K0630.204105	5	M10x1	21	49,5	17	10	15	8	13	-/17	1,3	5	16
K0630.203206	K0630.204206	6	M12x1,5	25	57,7	20	11	17	9	14	-/19	1,8	6	18
K0630.203308	K0630.204308	8	M16x1,5	33	76	26	14	23	12	19	-/24	2,3	15	45

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

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

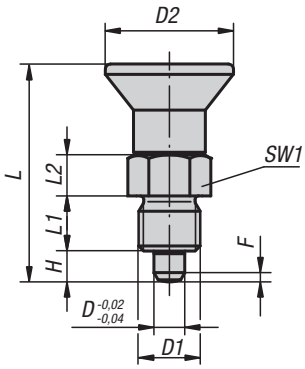
Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.213105	K0630.214105	5	M10x1	21	49,5	17	10	15	8	13	-/17	1,3	5	16
K0630.213206	K0630.214206	6	M12x1,5	25	57,7	20	11	17	9	14	-/19	1,8	6	18
K0630.213308	K0630.214308	8	M16x1,5	33	76	26	14	23	12	19	-/24	2,3	15	45

K0631

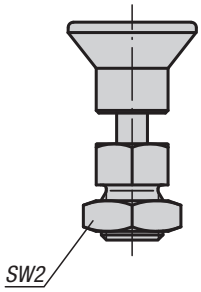
Indexing plungers

short version

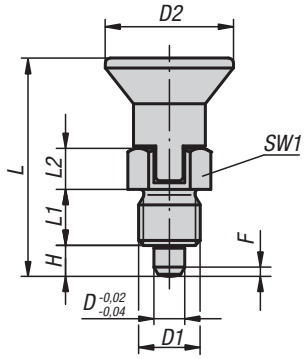
Form A
non-lockout type
without locknut



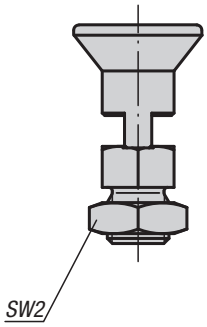
Form B
non-lockout type
with locknut

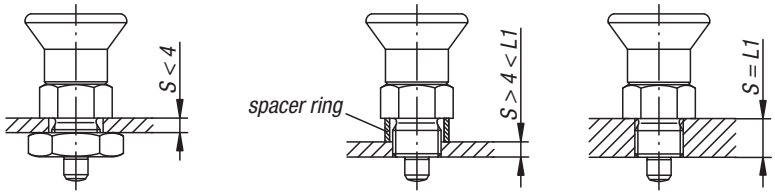


Form C
lockout type
without locknut



Form D
lockout type
with locknut





Material:
Steel version:
Indexing pin hardened:
grade 5.8

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

Mushroom knob black grey thermoplastic.

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

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

Sample order:
K0631.16206

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

On request:
Special versions.

Accessories:
Spacer rings K0665

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

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

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

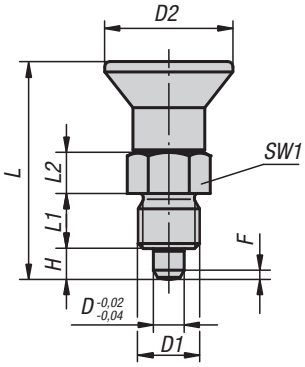
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.15903	K0631.16903	K0631.17903	K0631.18903	3	M6x0,75	14	25,5	6	5	3,5	8	-/10/-/10	0,8	4	10
K0631.15004	K0631.16004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

K0631

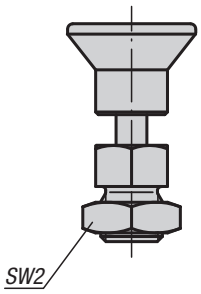
Indexing plungers

short version

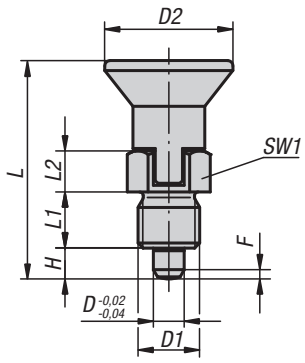
Form A
non-lockout type
without locknut



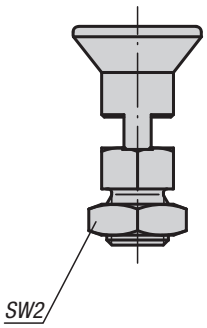
Form B
non-lockout type
with locknut

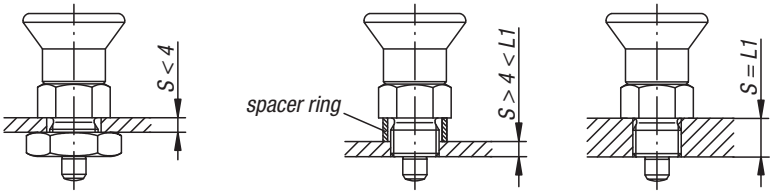


Form C
lockout type
without locknut



Form D
lockout type
with locknut





Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version,
Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob red thermoplastic

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

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

Sample order:
K0631.1620684

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

On request:
Special versions.

Accessories:
Spacer rings K0665

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

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

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

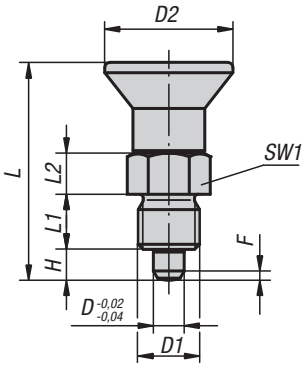
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.1590384	K0631.1690384	K0631.1790384	K0631.1890384	3	M6x0,75	14	25,5	6	5	3,5	8	-/10/-/10	0,8	4	10
K0631.1500484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

K1097

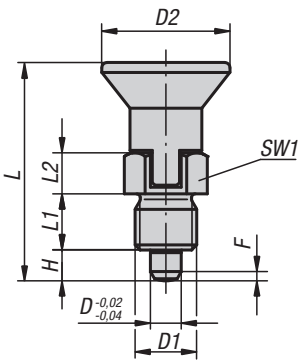
Indexing plungers

short version, with thread lock

Form AP
non-lockout type
without locknut



Form CP
lockout type
without locknut



Material:
Steel version:
thread and indexing pin free-cutting steel

Stainless steel version:
indexing pin not hardened:
threaded sleeve 1.4305
indexing pin 1.4305

Mushroom knob black grey thermoplastic.

Thread lock blue polyamide.

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

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

Sample order:
K1097.95903

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

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers

short version, with thread lock

KIPP Steel, indexing pin hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1097.95903	**K1097.97903**	3	M6x0,75	14	25,5	6	6	3,5	8	0,8	4	10
K1097.95004	**K1097.97004**	4	M8x1	18	29,5	6	6	4	10	1	4	12
K1097.95105	**K1097.97105**	5	M10x1	21	34,5	8	7	5	13	1,3	5	12
K1097.95206	**K1097.97206**	6	M12x1,5	25	41,7	10	8	6	14	1,8	6	14
K1097.95308	**K1097.97308**	8	M16x1,5	33	54	12	10	8	19	2,3	14	28
K1097.95410	**K1097.97410**	10	M20x1,5	33	61	15	12	10	22	2,8	15	32

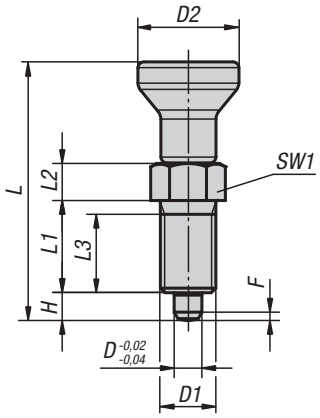
KIPP Stainless steel, indexing pin not hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1097.195903	**K1097.197903**	3	M6x0,75	14	25,5	6	6	3,5	8	0,8	4	10
K1097.195004	**K1097.197004**	4	M8x1	18	29,5	6	6	4	10	1	4	12
K1097.195105	**K1097.197105**	5	M10x1	21	34,5	8	7	5	13	1,3	5	12
K1097.195206	**K1097.197206**	6	M12x1,5	25	41,7	10	8	6	14	1,8	6	14
K1097.195308	**K1097.197308**	8	M16x1,5	33	54	12	10	8	19	2,3	14	28
K1097.195410	**K1097.197410**	10	M20x1,5	33	61	15	12	10	22	2,8	15	32

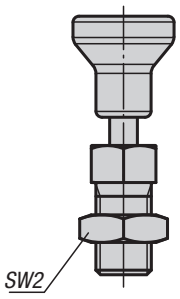
K0632

Indexing plungers stainless steel

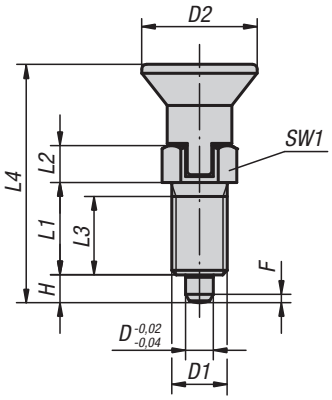
Form A
non-lockout type
without locknut



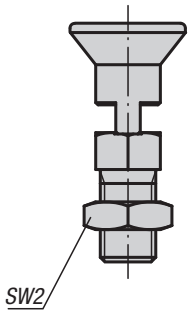
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



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

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

Mushroom knob 1.4305, electrolytic-polish.

Version:
Bright.
Indexing pin ground.

Sample order:
K0632.001004

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

On request:
Special versions.

Accessories:
Spacer rings K0665

KIPP Indexing plungers stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	L4
K0632.001903	K0632.002903	K0632.003903	K0632.004903	3	M6x0,75	14	34,5/-	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10	-/-/31,5/31,5
K0632.001004	K0632.002004	K0632.003004	K0632.004004	4	M8x1	18	43/-	15	6	13	4	10	-/13/-/13	1	6	12	-/-/38,5/38,5
K0632.001105	K0632.002105	K0632.003105	K0632.004105	5	M10x1	21	50/-	17	7	15	5	13	-/17/-/17	1,3	5	12	-/-/43,5/43,5
K0632.001206	K0632.002206	K0632.003206	K0632.004206	6	M12x1,5	25	59/-	20	8	17	6	14	-/19/-/19	1,8	6	14	-/-/51,7/51,7
K0632.001308	K0632.002308	K0632.003308	K0632.004308	8	M16x1,5	33	77/-	26	10	23	8	19	-/24/-/24	2,3	15	35	-/-/68/68
K0632.001410	K0632.002410	K0632.003410	K0632.004410	10	M20x1,5	33	83/-	28	12	25	10	22	-/30/-/30	2,8	15	34	-/-/74/74
K0632.001412	K0632.002412	K0632.003412	K0632.004412	12	M20x1,5	33	87/-	28	14	25	12	22	-/30/-/30	2,8	15	39	-/-/78/78
K0632.001516	K0632.002516	K0632.003516	K0632.004516	16	M24x2	40	106/-	32	18	28	16	27	-/36/-/36	3,2	20	46	-/-/96/96

KIPP Indexing plungers stainless steel, indexing pin not hardened

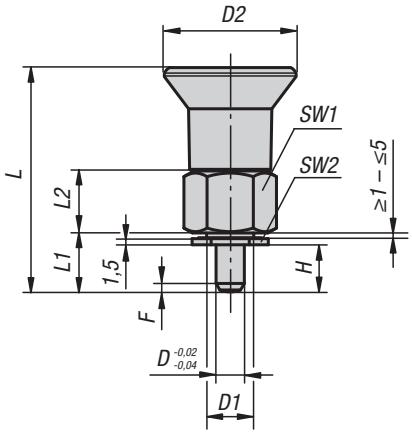
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	L4
K0632.111903	K0632.112903	K0632.113903	K0632.114903	3	M6x0,75	14	34,5/-	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10	-/-/31,5/31,5
K0632.111004	K0632.112004	K0632.113004	K0632.114004	4	M8x1	18	43/-	15	6	13	4	10	-/13/-/13	1	6	12	-/-/38,5/38,5
K0632.111105	K0632.112105	K0632.113105	K0632.114105	5	M10x1	21	50/-	17	7	15	5	13	-/17/-/17	1,3	5	12	-/-/43,5/43,5
K0632.111206	K0632.112206	K0632.113206	K0632.114206	6	M12x1,5	25	59/-	20	8	17	6	14	-/19/-/19	1,8	6	14	-/-/51,7/51,7
K0632.111308	K0632.112308	K0632.113308	K0632.114308	8	M16x1,5	33	77/-	26	10	23	8	19	-/24/-/24	2,3	15	35	-/-/68/68
K0632.111410	K0632.112410	K0632.113410	K0632.114410	10	M20x1,5	33	83/-	28	12	25	10	22	-/30/-/30	2,8	15	34	-/-/74/74
K0632.111412	K0632.112412	K0632.113412	K0632.114412	12	M20x1,5	33	87/-	28	14	25	12	22	-/30/-/30	2,8	15	39	-/-/78/78
K0632.111516	K0632.112516	K0632.113516	K0632.114516	16	M24x2	40	106/-	32	18	28	16	27	-/36/-/36	3,2	20	46	-/-/96/96

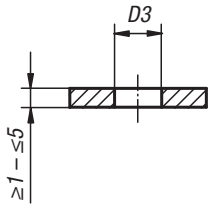
K0735

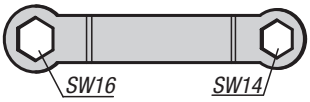
Indexing plungers

for thin-walled parts

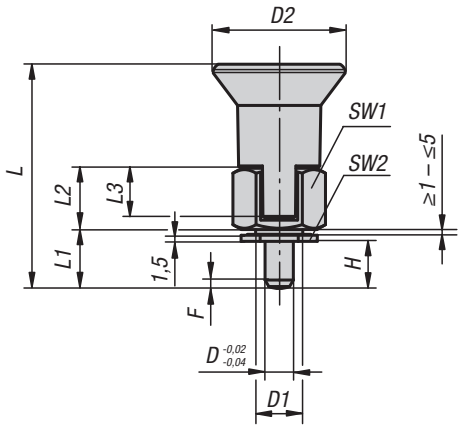
Form A
non-lockout







Form C
lockout



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

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

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

Order No.	Form	D	D1	D2	D3	L	L1	L2	L3	H	SW1	SW2	F x 30°	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	10,5	5-9	17	14	1,3	6	15	K0631.91416
K0735.31206	A	6	M10x1	28	10	47,5	12,5	13	10,5	6-10	17	14	1,8	7	19	K0631.91416
K0735.33105	C	5	M10x1	28	10	46,5	11,5	13	10,5	5-9	17	14	1,3	6	15	K0631.91416
K0735.33206	C	6	M10x1	28	10	47,5	12,5	13	10,5	6-10	17	14	1,8	7	19	K0631.91416

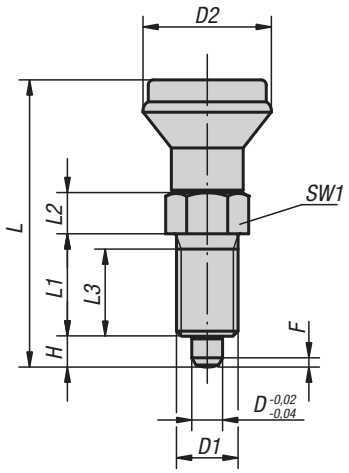
KIPP Indexing plungers for thin-walled parts, stainless steel, indexing pin not hardened

Order No.	Form	D	D1	D2	D3	L	L1	L2	L3	H	SW1	SW2	F x 30°	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	10,5	5-9	17	14	1,3	6	15	K0631.91416
K0735.311206	A	6	M10x1	28	10	47,5	12,5	13	10,5	6-10	17	14	1,8	7	19	K0631.91416
K0735.313105	C	5	M10x1	28	10	46,5	11,5	13	10,5	5-9	17	14	1,3	6	15	K0631.91416
K0735.313206	C	6	M10x1	28	10	47,5	12,5	13	10,5	6-10	17	14	1,8	7	19	K0631.91416

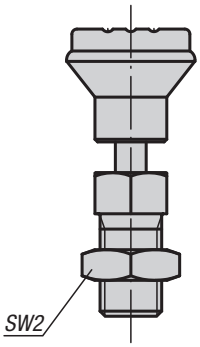
K0339

Indexing plungers

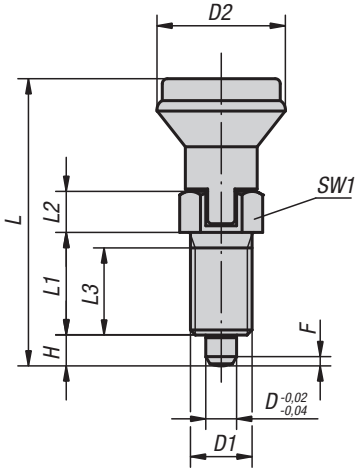
Form A
non-lockout type
without locknut



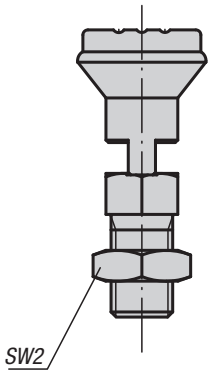
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

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

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic

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

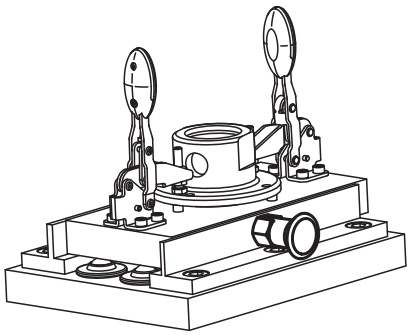
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0339.04206

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

On request:
Special versions.

Accessories:
Spacer rings K0665



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	H	SW1	SW2	F x 30° Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0339.1105	K0339.2105	K0339.3105	K0339.4105	5	M10x1	21	47	17	7	15	5	13	-/17/-/17	1,3	5	12
K0339.1206	K0339.2206	K0339.3206	K0339.4206	6	M12x1,5	25	56	20	8	17	6	14	-/19/-/19	1,8	6	14
K0339.1308	K0339.2308	K0339.3308	K0339.4308	8	M16x1,5	33	74	26	10	23	8	19	-/24/-/24	2,3	15	35
K0339.1410	K0339.2410	K0339.3410	K0339.4410	10	M20x1,5	33	80	28	12	25	10	22	-/30/-/30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin hardened

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

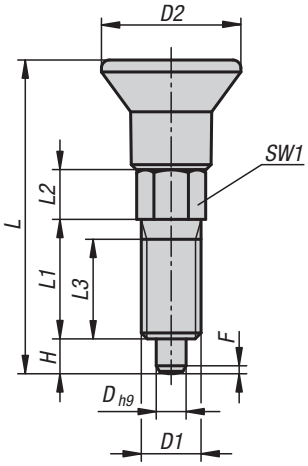
KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30° 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

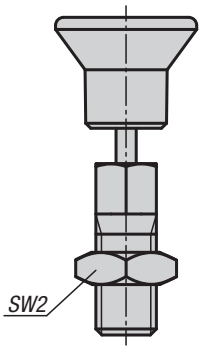
K0747

Indexing plungers

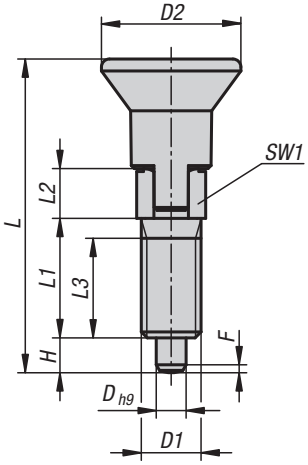
Form A
non-lockout type
without locknut



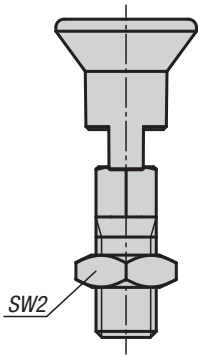
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



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

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.
Threaded sleeve blue passivated.
Indexing pin bright.

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

Sample order:
K0747.01903060

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

On request:
Special versions and fine thread

KIPP Indexing plungers, steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0747.01903060	K0747.02903060	K0747.03903060	K0747.04903060	3	M6	14	31,5	12	5	10	3,5	6	-/10/-/10	0,8	4	10	2
K0747.01004060	K0747.02004060	K0747.03004060	K0747.04004060	4	M6	14	36	15	6	13	4	6	-/10/-/10	1	6	12	2
K0747.01105080	K0747.02105080	K0747.03105080	K0747.04105080	5	M8	14	40	17	7	15	5	8	-/13/-/13	1,3	6	12	7
K0747.01206100	K0747.02206100	K0747.03206100	K0747.04206100	6	M10	18	47,5	20	8	17	6	10	-/17/-/17	1,8	8	15	15
K0747.01308120	K0747.02308120	K0747.03308120	K0747.04308120	8	M12	25	61,7	26	10	23	8	12	-/19/-/19	2,3	8	19	20

KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	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

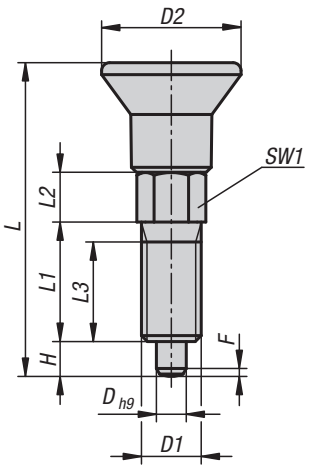
Notes

K1098

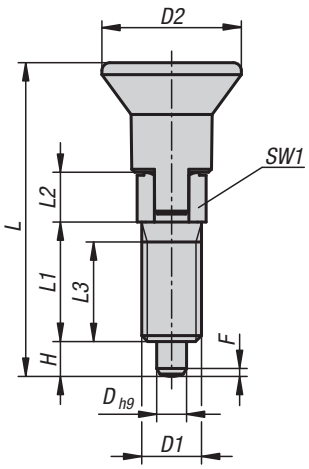
Indexing plungers

with thread lock

Form AP
non-lockout type
without locknut



Form CP
lockout type
without locknut



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

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

Mushroom knob black grey thermoplastic.

Thread lock blue polyamide.

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

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

Sample order:
K1098.091903060

Note:
This article is a cost-effective alternative to the existing indexing plungers. It is suitable for applications which require less precision.
The screw lock allows the thread to be screwed in to the exact depth required, no spacer ring is required.
The screw lock is a spotted-on polyamide coating that grips the screw flank. Screw-in and screw-out torques are reference values only.

On request:
Special versions and fine thread

Indexing plungers

with thread lock

KIPP Steel, indexing pin not hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	F x 30°	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 Stainless steel, indexing pin not hardened

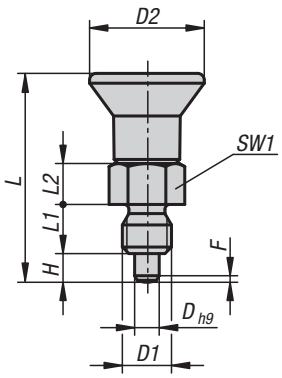
Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1098.191903060	K1098.193903060	3	M6	14	31,5	12	5	10	3,5	6	0,8	4	10
K1098.191004060	K1098.193004060	4	M6	14	36	15	6	13	4	6	1	6	12
K1098.191105080	K1098.193105080	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

K0748

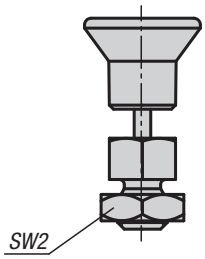
Indexing plungers

short version

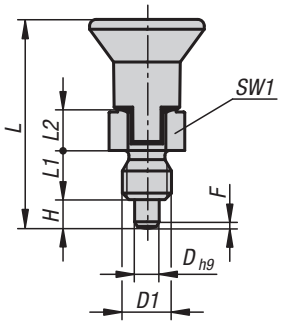
Form A
non-lockout type
without locknut



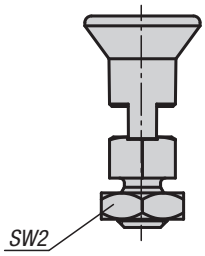
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



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

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

Mushroom knob black grey thermoplastic.

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

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

Sample order:
K0748.01903060

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

On request:
Special versions.

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

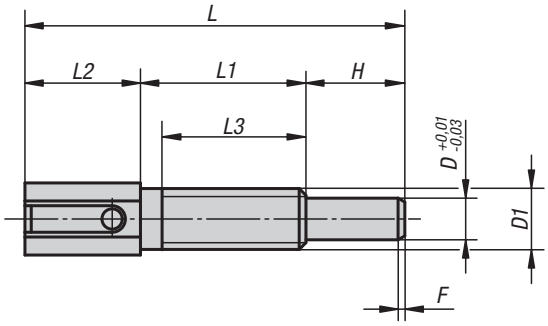
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0748.01903060	K0748.02903060	K0748.03903060	K0748.04903060	3	M6	14	25,5	6	5	3,5	8	-/10/-/10	0,8	3,5	8	2
K0748.01004080	K0748.02004080	K0748.03004080	K0748.04004080	4	M8	18	29,5	6	6	4	10	-/13/-/13	1	3,5	9	2
K0748.01105100	K0748.02105100	K0748.03105100	K0748.04105100	5	M10	21	34,5	8	7	5	13	-/17/-/17	1,3	6	12	7
K0748.01206120	K0748.02206120	K0748.03206120	K0748.04206120	6	M12	25	41,7	10	8	6	14	-/19/-/19	1,8	6	12	15
K0748.01308160	K0748.02308160	K0748.03308160	K0748.04308160	8	M16	33	54	12	10	8	19	-/24/-/24	2,3	6	13	20

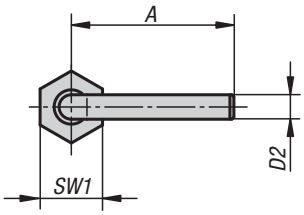
KIPP Indexing plungers, short version, stainless steel, indexing pin not hardened

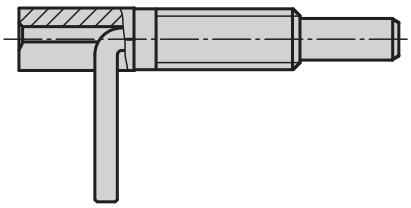
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0748.11903060	K0748.12903060	K0748.13903060	K0748.14903060	3	M6	14	25,5	6	5	3,5	8	-/10/-/10	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

K0340

Indexing plungers







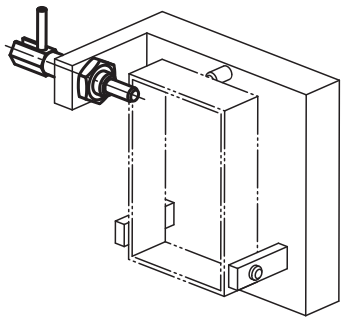
Material:
Steel grade 5.8.

Version:
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.

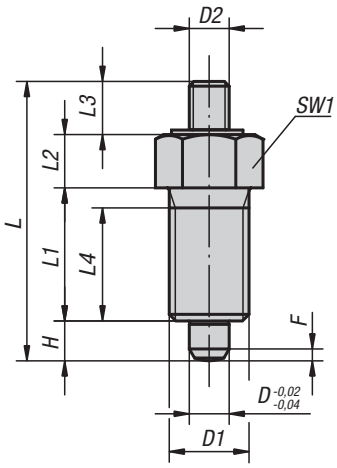


KIPP Indexing plungers

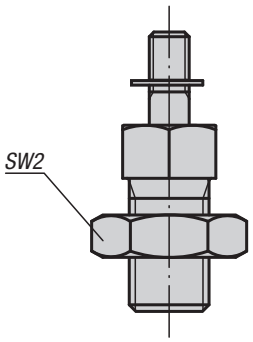
Order No.	D	D1	D2	L	L1	L2	L3	H	A	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0340.1104	4	M6	2,3	41,5	20	12	17	9,5	15,5	6	0,7	3	10	1,6
K0340.1905	5	M8	3	54	27	15	24	12	19,2	8	0,9	3,5	13,5	4,5
K0340.1206	6	M10	3,5	65	33,5	17,5	30	14	22,9	10	1,1	4	16	10
K0340.1308	8	M12	4,7	73	31,8	22,2	28	19	31,2	12	1,3	4	22	13
K0340.1410	10	M16	4,7	102,5	50,5	27	44,5	25	32,7	16	1,6	4	23	42

K0341

Indexing plungers



Form E
with threaded pin
without locknut



Form F
with threaded pin
with locknut

Material:
Steel version:
Indexing pin hardened:
grade 5.8.

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

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

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.

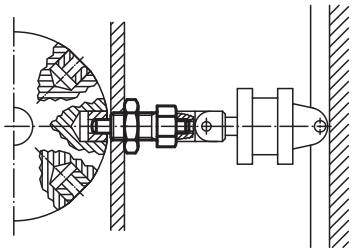
Sample order:
K0341.02308

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

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	H	SW1	SW2	F x 30°	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

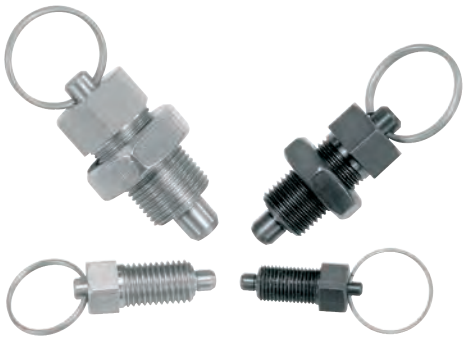
Order No. Form E	Order No. Form F	D	D1	D2	L	L1	L2	L3	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0341.01903	**K0341.02903**	3	M6x0,75	M2	24	12	5	3,5	10	3,5	8	- / 10	0,8	4,5	10
K0341.01004	**K0341.02004**	4	M8x1	M3	32	15	6	7	13	4	10	- / 13	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

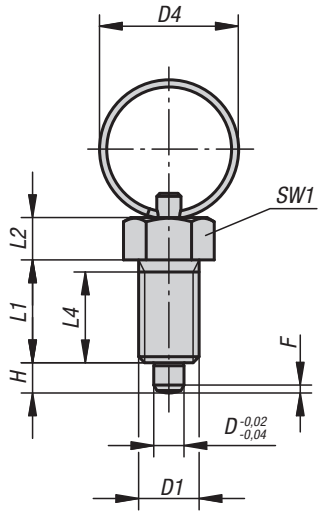
KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form E	Order No. Form F	D	D1	D2	L	L1	L2	L3	L4	H	SW1	SW2	F x 30°	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

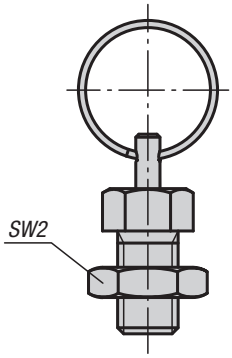
K0342

Indexing plungers





Form R
without locknut



Form S
with locknut

Material:
Steel version:
Indexing pin hardened:
grade 5.8.

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

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

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.

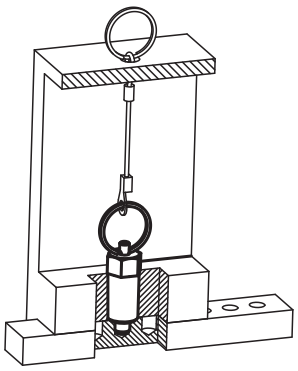
Sample order:
K0342.03308

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. programme-controlled pneumatic cylinder or by remote control using bowden cables.

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form R	Order No. Form S	D	D1	D4	L1	L2	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0342.3004	K0342.4004	4	M8x1	15	15	6	13	4	10	- / 13	1	6	12
K0342.3105	K0342.4105	5	M10x1	23	17	7	15	5	13	- / 17	1,3	5	12
K0342.3206	K0342.4206	6	M12x1,5	23	20	8	17	6	14	- / 19	1,8	6	14
K0342.3308	K0342.4308	8	M16X1,5	28	26	10	23	8	19	- / 24	2,3	15	35
K0342.3410	K0342.4410	10	M20x1,5	28	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	L1	L2	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0342.03004	K0342.04004	4	M8x1	15	15	6	13	4	10	- / 13	1	6	12
K0342.03105	K0342.04105	5	M10x1	23	17	7	15	5	13	- / 17	1,3	5	12
K0342.03206	K0342.04206	6	M12x1,5	23	20	8	17	6	14	- / 19	1,8	6	14
K0342.03308	K0342.04308	8	M16X1,5	28	26	10	23	8	19	- / 24	2,3	15	35
K0342.03410	K0342.04410	10	M20x1,5	28	28	12	25	10	22	- / 30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin not hardened

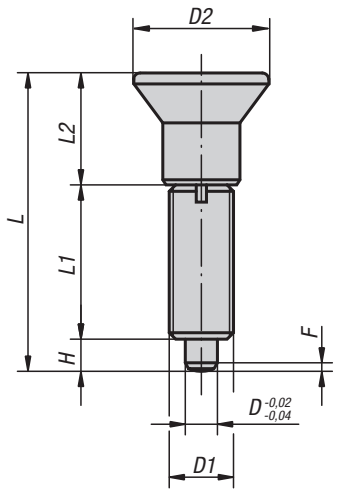
Order No. Form R	Order No. Form S	D	D1	D4	L1	L2	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0342.13004	K0342.14004	4	M8x1	15	15	6	13	4	10	- / 13	1	6	12
K0342.13105	K0342.14105	5	M10x1	23	17	7	15	5	13	- / 17	1,3	5	12
K0342.13206	K0342.14206	6	M12x1,5	23	20	8	17	6	14	- / 19	1,8	6	14
K0342.13308	K0342.14308	8	M16X1,5	28	26	10	23	8	19	- / 24	2,3	15	35
K0342.13410	K0342.14410	10	M20x1,5	28	28	12	25	10	22	- / 30	2,8	15	34

K0343

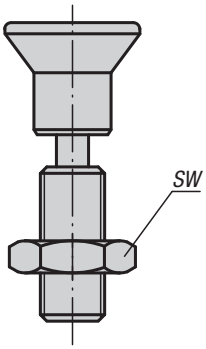
Indexing plungers

without collar

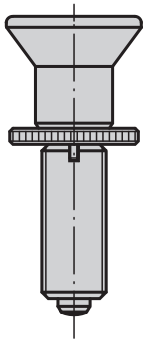
Form G
without locknut

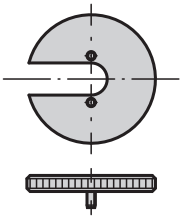


Form H
with locknut



Indexing plunger
with screw-in washer





Material:
Steel version:
Indexing pin hardened:
grade 5.8.

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

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic

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

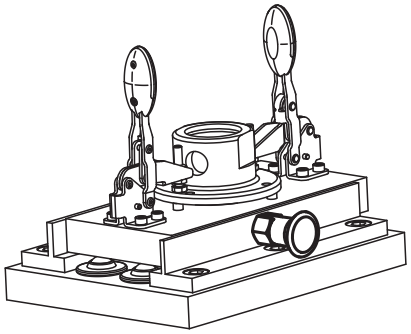
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0343.02206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.
A washer is available to aid by screwing in the indexing plungers. The washer slides beneath the mushroom knob so that the carrier pins engage in the slot.

On request:
Special versions.

Accessories:
Spacer rings K0665



Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

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

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

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

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

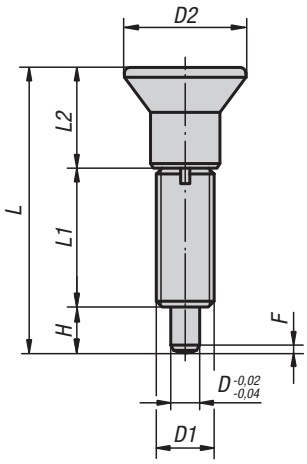
Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0343.11903	**K0343.12903**	3	M6x0,75	14	31,5	17	11	3,5	- / 10	0,8	4,5	10	K0344.99
K0343.11004	**K0343.12004**	4	M8x1	18	38,5	21	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

K0633

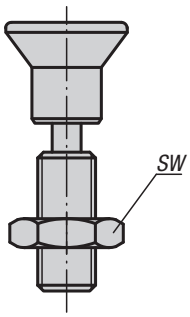
Indexing plungers

without collar with extended indexing pin

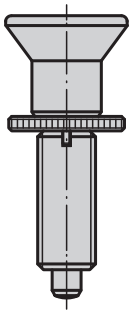
Form G
without locknut

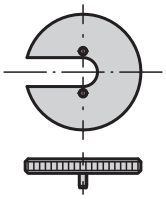


Form H
with locknut



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.

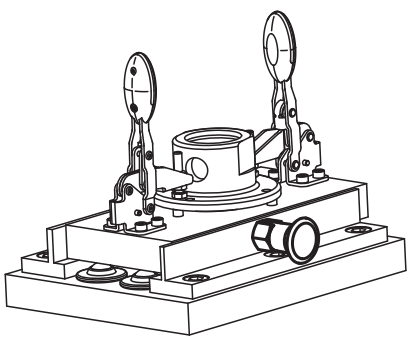
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

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



Indexing plungers

without collar with extended indexing pin

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

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

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

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

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

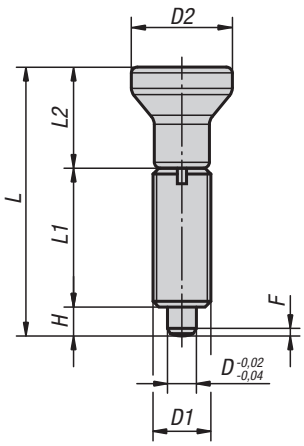
Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0633.211903	**K0633.212903**	3	M6x0,75	14	33	17	11	5	- / 10	0,8	4,5	12	K0344.99
K0633.211004	**K0633.212004**	4	M8x1	18	40,5	21	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

K0634

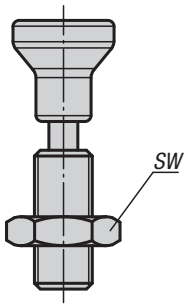
Indexing plungers

stainless steel without collar

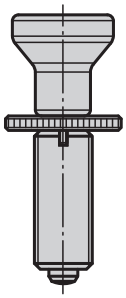
Form G
without locknut

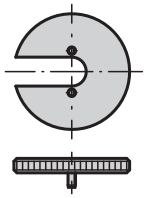


Form H
with locknut



Indexing plunger
with screw-in washer





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

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

Mushroom knob 1.4305, electrolytic-polish.

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 in the indexing plungers. The washer is slid beneath the disengaged mushroom knob so that the follower pins engage in the slot.

On request:
Special versions.

Accessories:
Spacer rings K0665

KIPP Indexing plungers stainless steel without collar, indexing pin hardened

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

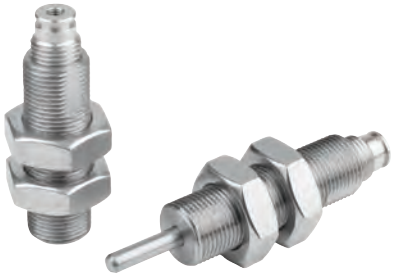
KIPP Indexing plungers stainless steel without collar, indexing pin not hardened

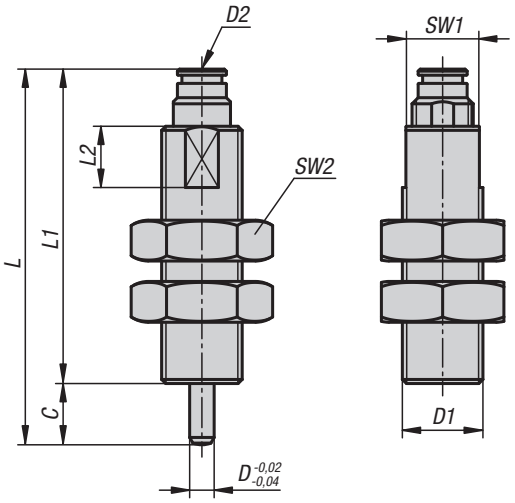
Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0634.111903	**K0634.112903**	3	M6x0,75	14	34,5	17	14	3,5	-/10	0,8	4,5	10	K0344.99
K0634.111004	**K0634.112004**	4	M8x1	18	43	21	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

K1116

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

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

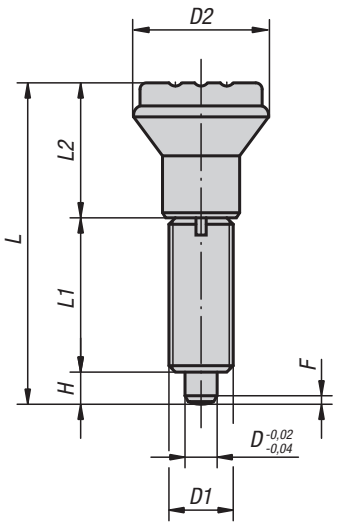
Order No. steel	Order No. stainless steel	D	D1	D2	C (travel)	L	L1	L2	SW1	SW2	Operating pressure bar	Piston force at 6 bar (N)	Spring retraction force ca. N
K1116.1206010	**K1116.01206010**	6	M20x1,5	M5	10	80	70	15	18	30	2 - 6	38,7-35,1	9,9-6
K1116.1206015	**K1116.01206015**	6	M20x1,5	M5	15	92	77	15	18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

K0344

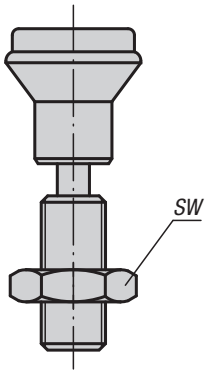
Indexing plungers

without collar

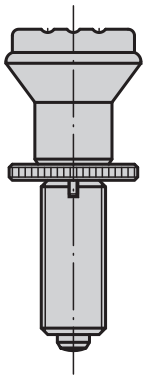
Form G
without locknut

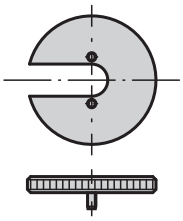


Form H
with locknut



Indexing plunger
with screw-in washer





Material:
Steel version:
Indexing pin hardened:
grade 5.8.

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

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic

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

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

Sample order:
K0344.02206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.
A screw-in washer can be supplied to help screw in the indexing plungers. The washer is slid beneath the disengaged mushroom knob so that the carrier pins engage in the slot.

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0344.1105	**K0344.2105**	5	M10x1	21	47	24	18	5	-/17	1,3	5	12	K0344.91
K0344.1206	**K0344.2206**	6	M12x1,5	25	56	28	22	6	-/19	1,8	6	14	K0344.92
K0344.1308	**K0344.2308**	8	M16X1,5	33	74	36	30	8	-/24	2,3	15	35	K0344.93
K0344.1410	**K0344.2410**	10	M20x1,5	33	80	40	30	10	-/30	2,8	15	34	K0344.94

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

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0344.01105	**K0344.02105**	5	M10x1	21	47	24	18	5	-/17	1,3	5	12	K0344.91
K0344.01206	**K0344.02206**	6	M12x1,5	25	56	28	22	6	-/19	1,8	6	14	K0344.92
K0344.01308	**K0344.02308**	8	M16X1,5	33	74	36	30	8	-/24	2,3	15	35	K0344.93
K0344.01410	**K0344.02410**	10	M20x1,5	33	80	40	30	10	-/30	2,8	15	34	K0344.94

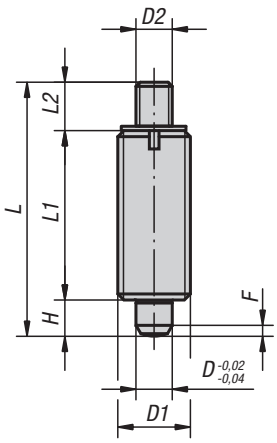
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	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

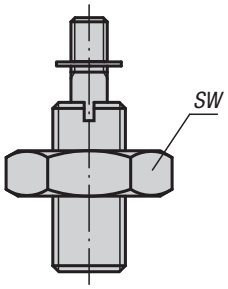
K0345

Indexing plungers

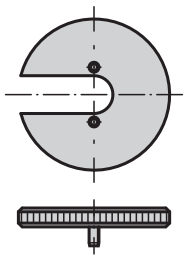
without collar



Form J
with threaded pin
without locknut



Form K
with threaded pin
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

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

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

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

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

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

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

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

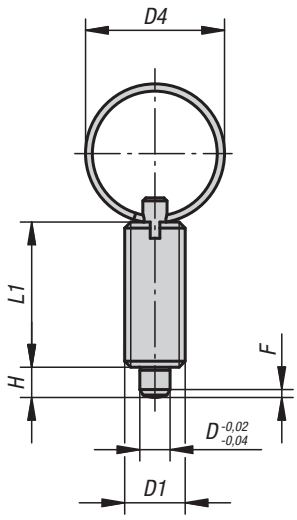
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form J	Order No. Form K	D	D1	D2	L	L1	L2	H	SW	F x 30°	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

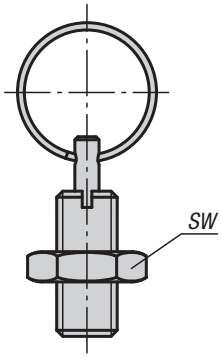
K0635

Indexing plungers

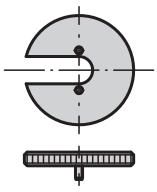
without collar



Form T
without locknut



Form U
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

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

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

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

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form T	Order No. Form U	D	D1	D4	L1	H	SW	F x 30°	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	21	4	-/13	1	6	12	K0344.90
K0635.3105	**K0635.4105**	5	M10x1	23	24	5	-/17	1,3	5	12	K0344.91
K0635.3206	**K0635.4206**	6	M12x1,5	23	28	6	-/19	1,8	6	14	K0344.92
K0635.3308	**K0635.4308**	8	M16x1,5	28	36	8	-/24	2,3	15	35	K0344.93
K0635.3410	**K0635.4410**	10	M20x1,5	28	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	L1	H	SW	F x 30°	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	21	4	-/13	1	6	12	K0344.90
K0635.03105	**K0635.04105**	5	M10x1	23	24	5	-/17	1,3	5	12	K0344.91
K0635.03206	**K0635.04206**	6	M12x1,5	23	28	6	-/19	1,8	6	14	K0344.92
K0635.03308	**K0635.04308**	8	M16x1,5	28	36	8	-/24	2,3	15	35	K0344.93
K0635.03410	**K0635.04410**	10	M20x1,5	28	40	10	-/30	2,8	15	34	K0344.94

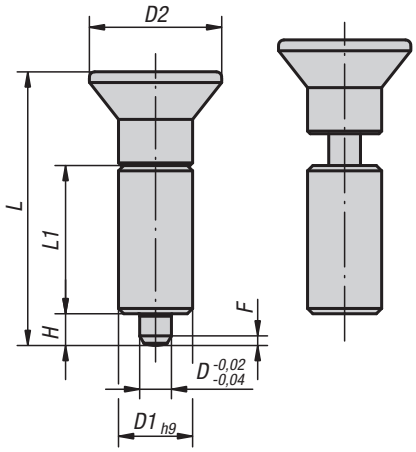
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form T	Order No. Form U	D	D1	D4	L1	H	SW	F x 30°	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	21	4	-/13	1	6	12	K0344.90
K0635.13105	**K0635.14105**	5	M10x1	23	24	5	-/17	1,3	5	12	K0344.91
K0635.13206	**K0635.14206**	6	M12x1,5	23	28	6	-/19	1,8	6	14	K0344.92
K0635.13308	**K0635.14308**	8	M16x1,5	28	36	8	-/24	2,3	15	35	K0344.93
K0635.13410	**K0635.14410**	10	M20x1,5	28	40	10	-/30	2,8	15	34	K0344.94

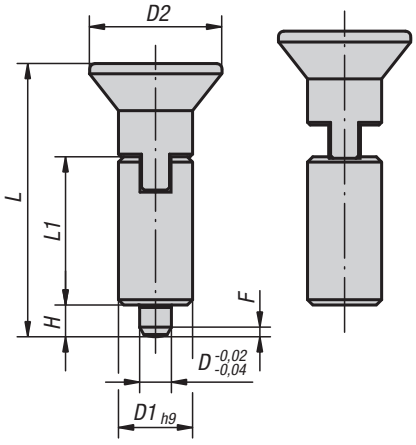
K0346

Indexing plungers

without collar



Form L
without locking slot



Form M
with locking slot

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

Stainless steel version:
Indexing pin hardened
Sleeve1.4301 weldable.
Indexing pin 1.4034.

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

Mushroom knob black grey thermoplastic.

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

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

Sample order:
K0346.01206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.
Form M is recommended for applications in where the indexing plungers should remain disengaged over extended periods and the pin prevented from springing back.
To weld the indexing plungers we recommend inert gas-shielded welding with TIG welding equipment.

On request:
Special versions.

K0346

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0346.1004	K0346.2004	4	10	18	38,5	21	4	1	6	12
K0346.1105	K0346.2105	5	12	21	43,5	24	5	1,3	5	12
K0346.1206	K0346.2206	6	14	25	51,7	28	6	1,8	6	14
K0346.1308	K0346.2308	8	18	33	68	36	8	2,3	15	35
K0346.1410	K0346.2410	10	22	33	74	40	10	2,8	15	34

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

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0346.01004	K0346.02004	4	10	18	38,5	21	4	1	6	12
K0346.01105	K0346.02105	5	12	21	43,5	24	5	1,3	5	12
K0346.01206	K0346.02206	6	14	25	51,7	28	6	1,8	6	14
K0346.01308	K0346.02308	8	18	33	68	36	8	2,3	15	35
K0346.01410	K0346.02410	10	22	33	74	40	10	2,8	15	34

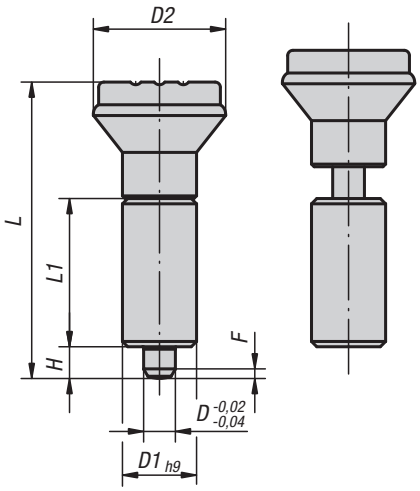
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	H	F x 30°	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

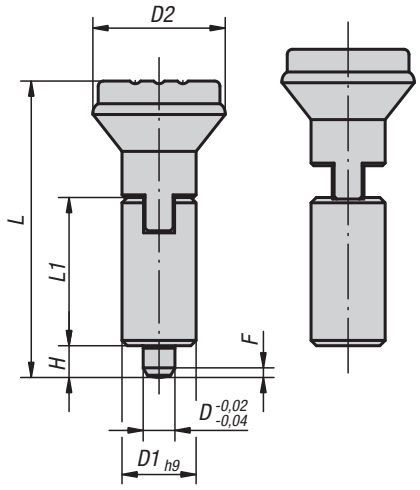
K0347

Indexing plungers

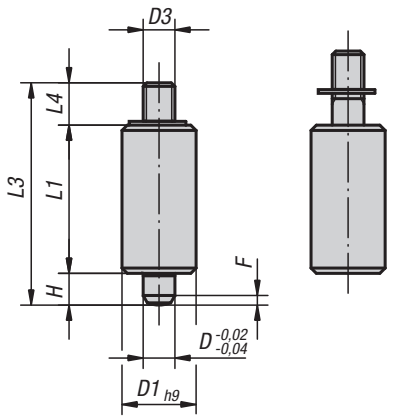
without collar



Form L
without locking slot



Form M
with locking slot



Form N
with threaded pin

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.

Mushroom knob black grey thermoplastic.

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

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

Sample order:
K0347.02206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.
Form M is recommended for applications where the indexing plungers should remain disengaged over an extended period and the pin prevented from springing back.
Special grips can be fitted on the projecting threaded pin of Form N. This pin is also suitable for actuating the indexing plunger e.g. automatically (program-controlled) with the aid of a pneumatic cylinder or remote controlled with bowden cables.
To weld the indexing plungers we recommend inert gas shielded welding with TIG welding equipment.

On request:
Special versions.

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form L	Order No. Form M	Order No. Form N	D	D1	D2	D3	L	L1	L3	L4	H	F x 30°	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/-	24	-/-/37	-/-/8	5	1,3	5	12
K0347.1206	**K0347.2206**	**K0347.3206**	6	14	25/25/-	-/-/M6	56/56/-	28	-/-/43	-/-/9	6	1,8	6	14
K0347.1308	**K0347.2308**	**K0347.3308**	8	18	33/33/-	-/-/M8	74/74/-	36	-/-/56	-/-/12	8	2,3	15	35
K0347.1410	**K0347.2410**	**K0347.3410**	10	22	33/33/-	-/-/M8	80/80/-	40	-/-/62	-/-/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	L3	L4	H	F x 30°	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/-	24	-/-/37	-/-/8	5	1,3	5	12
K0347.01206	**K0347.02206**	**K0347.03206**	6	14	25/25/-	-/-/M6	56/56/-	28	-/-/43	-/-/9	6	1,8	6	14
K0347.01308	**K0347.02308**	**K0347.03308**	8	18	33/33/-	-/-/M8	74/74/-	36	-/-/56	-/-/12	8	2,3	15	35
K0347.01410	**K0347.02410**	**K0347.03410**	10	22	33/33/-	-/-/M8	80/80/-	40	-/-/62	-/-/12	10	2,8	15	34

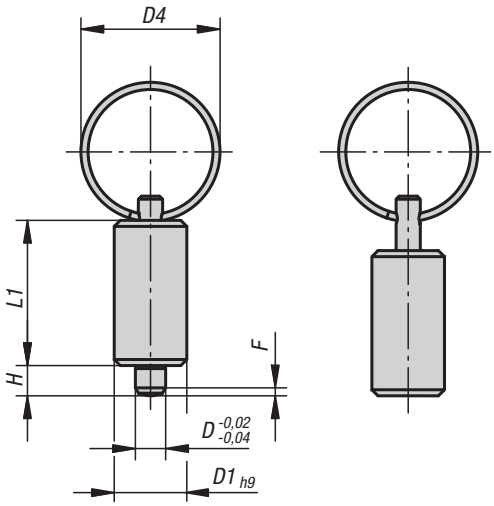
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form L	Order No. Form M	Order No. Form N	D	D1	D2	D3	L	L1	L3	L4	H	F x 30°	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/-	24	-/-/37	-/-/8	5	1,3	5	12
K0347.11206	**K0347.12206**	**K0347.13206**	6	14	25/25/-	-/-/M6	56/56/-	28	-/-/43	-/-/9	6	1,8	6	14
K0347.11308	**K0347.12308**	**K0347.13308**	8	18	33/33/-	-/-/M8	74/74/-	36	-/-/56	-/-/12	8	2,3	15	35
K0347.11410	**K0347.12410**	**K0347.13410**	10	22	33/33/-	-/-/M8	80/80/-	40	-/-/62	-/-/12	10	2,8	15	34

K0636

Indexing plungers

without collar



Form V
with key ring

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 disengaged.
The key ring is also suitable for actuating the indexing plungers e.g. automatically (program-controlled) with the aid of a pneumatic cylinder or remote controlled with bowden cables.
To weld the indexing plungers we recommend inert gas shielded welding with TIG welding equipment.

On request:
Special versions.

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form V	D	D1	D4	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0636.4004	4	10	15	21	4	1	6	12
K0636.4105	5	12	23	24	5	1,3	5	12
K0636.4206	6	14	23	28	6	1,8	6	14
K0636.4308	8	18	28	36	8	2,3	15	35
K0636.4410	10	22	28	40	10	2,8	15	34

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

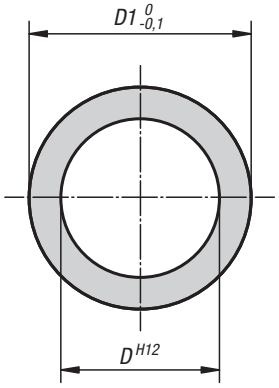
Order No. Form V	D	D1	D4	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0636.04004	4	10	15	21	4	1	6	12
K0636.04105	5	12	23	24	5	1,3	5	12
K0636.04206	6	14	23	28	6	1,8	6	14
K0636.04308	8	18	28	36	8	2,3	15	35
K0636.04410	10	22	28	40	10	2,8	15	34

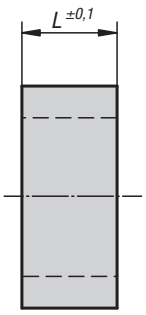
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

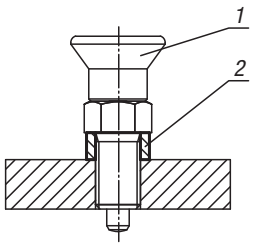
Order No. Form V	D	D1	D4	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0636.14004	4	10	15	21	4	1	6	12
K0636.14105	5	12	23	24	5	1,3	5	12
K0636.14206	6	14	23	28	6	1,8	6	14
K0636.14308	8	18	28	36	8	2,3	15	35
K0636.14410	10	22	28	40	10	2,8	15	34

K0665

Spacer rings







Material:
Stainless steel

Version:
Bright.

Sample order:
K0665.90811021

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

Drawing reference:
1) Indexing plunger
2) Spacer ring

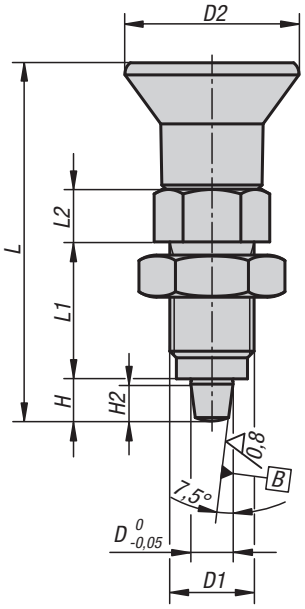
KIPP Spacer rings

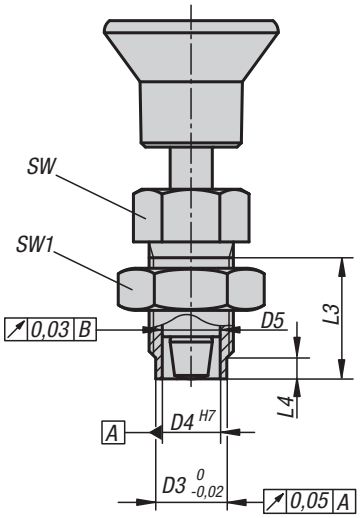
Order No.	D	D1	L
K0665.90811021	8	11	2
K0665.90811031	8	11	3
K0665.90811041	8	11	4
K0665.90811061	8	11	6
K0665.90811081	8	11	8
K0665.91014021	10	14	2
K0665.91014031	10	14	3
K0665.91014041	10	14	4
K0665.91014061	10	14	6
K0665.91014081	10	14	8
K0665.91215021	12	15	2
K0665.91215041	12	15	4
K0665.91215051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

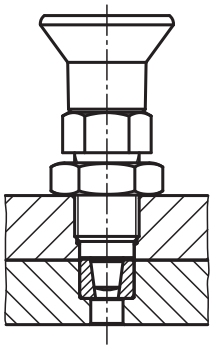
K0736

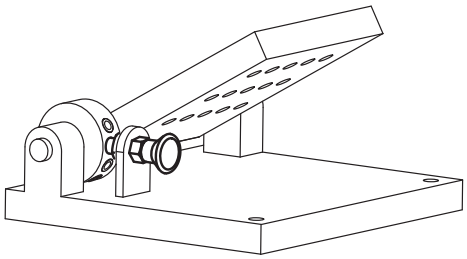
Indexing plungers - Premium

with tapered pin









Material:
Steel version:
indexing pin hardened:
grade 5.8

Stainless steel version:
indexing pin hardened
threaded sleeve 1.4305
indexing pin 1.4034

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.

Accessories:
Matching tapered bush K0736.

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

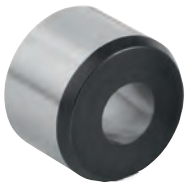
Order No.	Component material	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	H2	SW	SW1	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.52105	Steel	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	4	13	17	5	12
K0736.52206	Steel	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3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

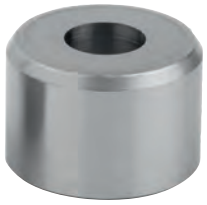
KIPP Premium indexing plungers with tapered pin, stainless steel, indexing pin hardened

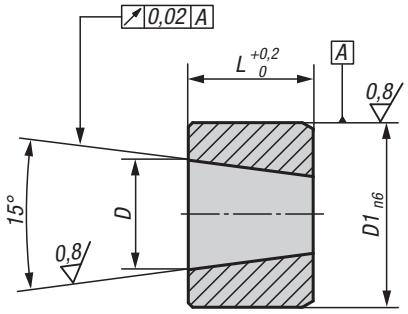
Order No.	Component material	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	H2	SW	SW1	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.502105	Stainless steel	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	4	13	17	5	12
K0736.502206	Stainless steel	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03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

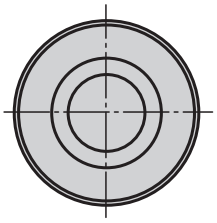
K0736

Bushes tapered









Material:
Steel or stainless steel 1.4034.

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.

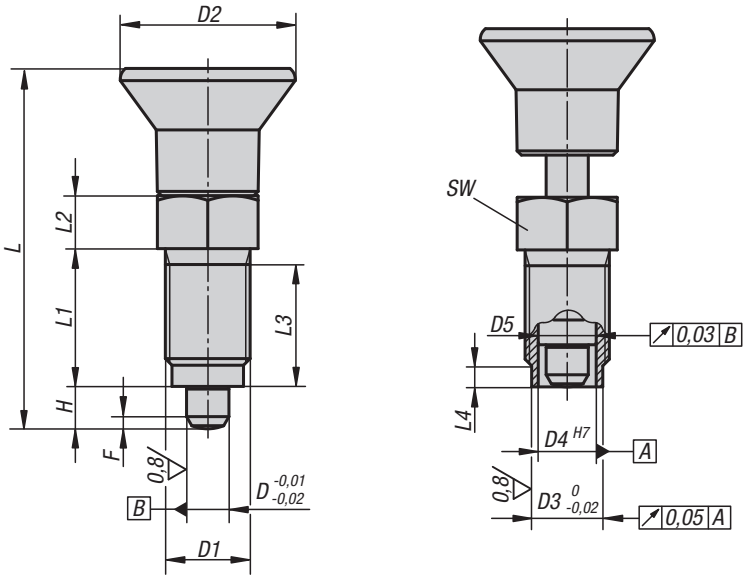
KIPP Tapered bushes

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

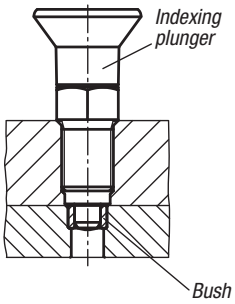
K0736

Indexing plungers - Premium

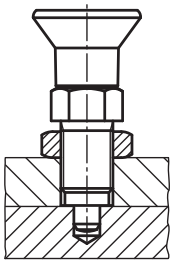
with cylindrical pin



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 1.4034

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….

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

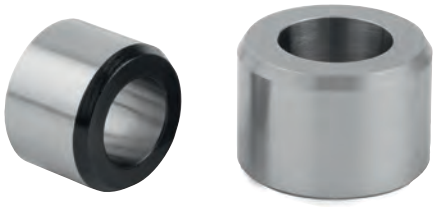
Order No.	Component material	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.41105	Steel	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	13	1,3	5	12
K0736.41206	Steel	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3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

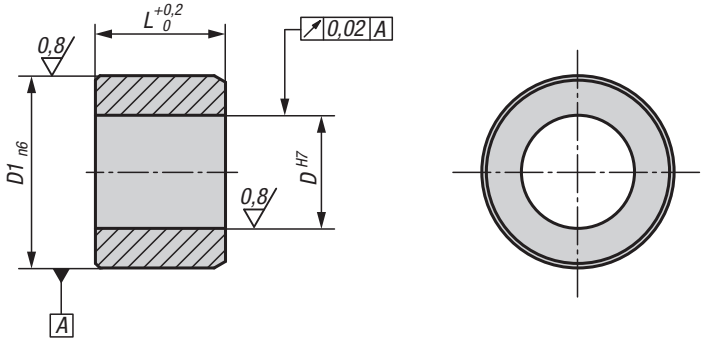
KIPP Premium indexing plungers with cylindrical pin, stainless steel, indexing pin hardened

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

K0736

Bushes cylindrical





Material:
Steel or stainless steel 1.4034.

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.

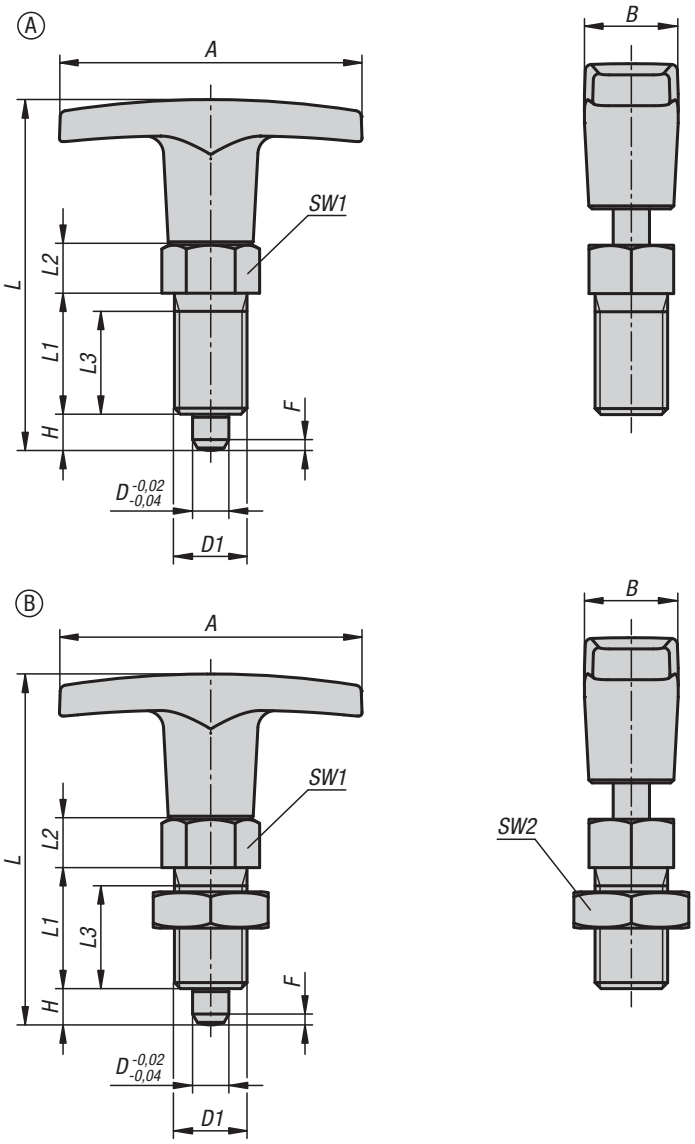
KIPP Cylindrical bushes

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

K1124

Indexing plungers

with T-grip



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

Stainless steel version:
Indexing pin hardened:
pin 1.4034
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 allows for easy handling and low effort.

On request:
Special versions.

Accessories:
Spacer rings K0665

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

KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Component colour	A	B	D	D1	L	L1	L2	L3	H	SW1	SW2	F x 30°	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**	traffic red RAL 3020	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.530884	**K1124.630884**	traffic red RAL 3020	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.541084	**K1124.641084**	traffic red RAL 3020	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Component colour	A	B	D	D1	L	L1	L2	L3	H	SW1	SW2	F x 30°	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**	traffic red RAL 3020	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.0530884	**K1124.0630884**	traffic red RAL 3020	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.0541084	**K1124.0641084**	traffic red RAL 3020	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34

Notes

K0359

Indexing plungers - Precision

with tapered pin

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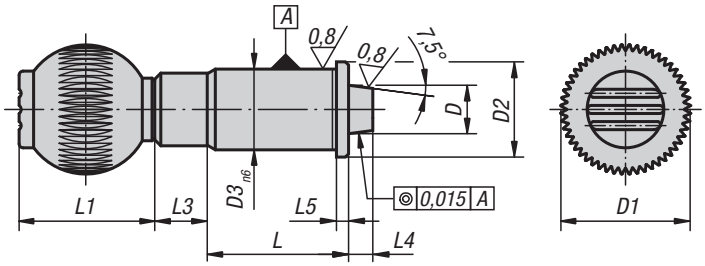

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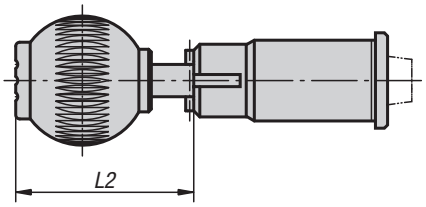


Material:
Steel.
Grip ball thermoplastic.

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 fixing. The precise design of both the indexing plunger and the bush guarantees high repeating accuracy when assembling two elements.

Technical information see assembly and installation instructions.

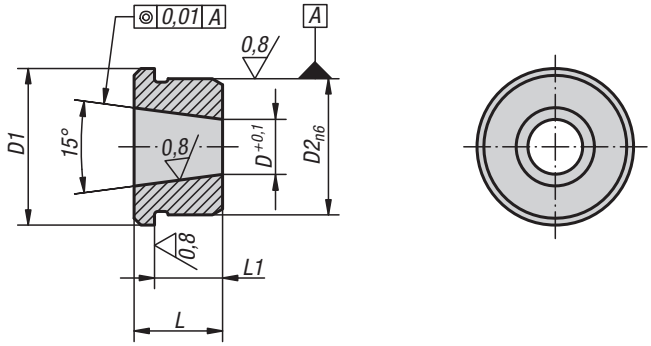
Drawing reference:
Form A: standard
Form B: lockable

KIPP Precision indexing plungers with tapered pin

Order No. Form A standard	Order No. Form B lockable	D	D1	D2	D3	L	L1	L2	L3	L4 min.	L5	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Internal thread grip ball
K0359.010	**K0359.110**	10	25	19	16	31	25	-/32,5	13	6	2,5	19	29	M6
K0359.012	**K0359.112**	12	32	23	20	35	33	-/40,5	13	6	3	22	35	M8
K0359.016	**K0359.116**	16	40	28	25	42	41,5	-/49	13	6	3	30	50	M10
K0359.020	**K0359.120**	20	40	33	30	50	41,5	-/49	13	6	3	46	63	M10
K0359.025	**K0359.125**	25	50	42	38	60	51	-/58,5	13	6	3	39	73	M10

K0360

Bushes tapered



Material:
Steel.

Version:
Hardened and ground.

Sample order:
K0360.20

Note:
Bushes for precision indexing plungers K0359.

KIPP Tapered bushes

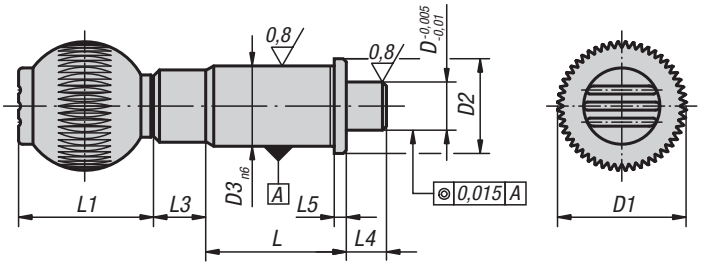
Order No.	D	D1	D2	L	L1
K0360.10	7,1	19	16	11	8,5
K0360.12	8,28	23	20	13	10
K0360.16	11,52	28	25	17	14
K0360.20	15,49	33	30	16	13
K0360.25	19,7	42	38	19	16

K0361

Indexing plungers - Precision

with cylindrical pin

Ⓐ



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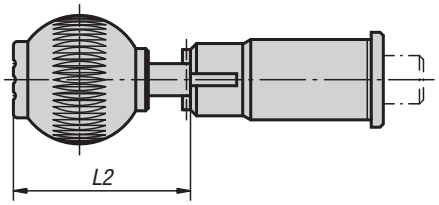


Material:
Steel.
Grip ball thermoplastic.

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.

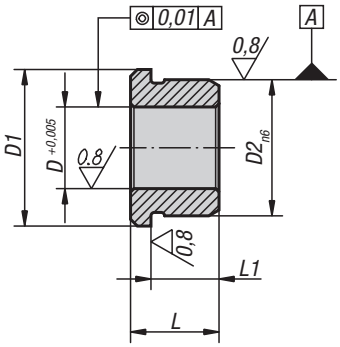
Drawing reference:
Form A: standard
Form B: lockable

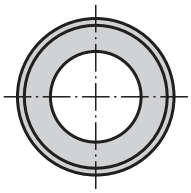
KIPP Precision indexing plungers with cylindrical pin

Order No. Form A standard	Order No. Form B lockable	D	D1	D2	D3	L	L1	L2	L3	L4 min.	L5	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Internal thread grip ball
K0361.010	**K0361.110**	10	25	19	16	31	25	-/36,5	13	10	2,5	15	30	M6
K0361.012	**K0361.112**	12	32	23	20	35	33	-/44,5	13	10	3	15	35	M8
K0361.016	**K0361.116**	16	40	28	25	42	41,5	-/53	13	10	3	20	50	M10
K0361.020	**K0361.120**	20	40	33	30	50	41,5	-/53	13	10	3	36	63	M10
K0361.025	**K0361.125**	25	50	42	38	60	51	-/62,5	13	10	3	20	73	M10

K0362

Bushes cylindrical



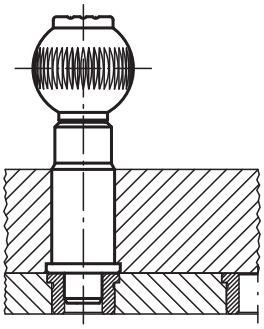


Material:
Steel.

Version:
Hardened and ground.

Sample order:
K0362.20

Note:
Bushes for precision indexing plungers K0361.

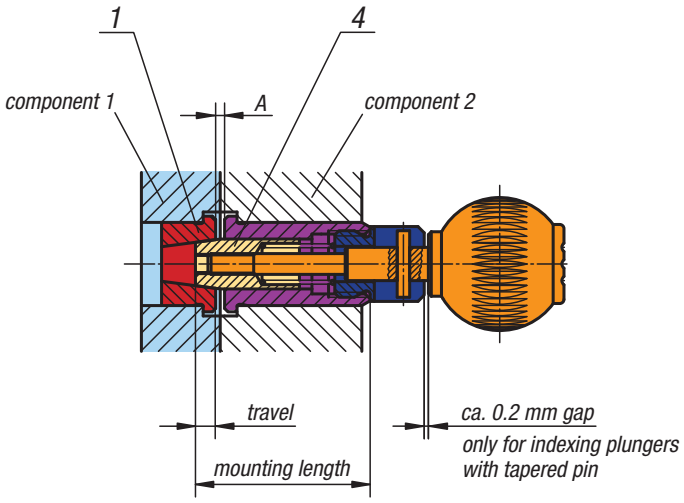


KIPP Cylindrical bushes

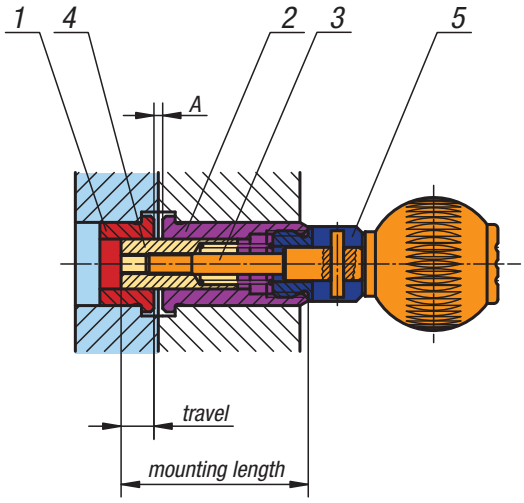
Order No.	D	D1	D2	L	L1
K0362.10	10	19	16	11	8,5
K0362.12	12	23	20	13	10
K0362.16	16	28	25	17	14
K0362.20	20	33	30	16	13
K0362.25	25	42	38	19	16

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

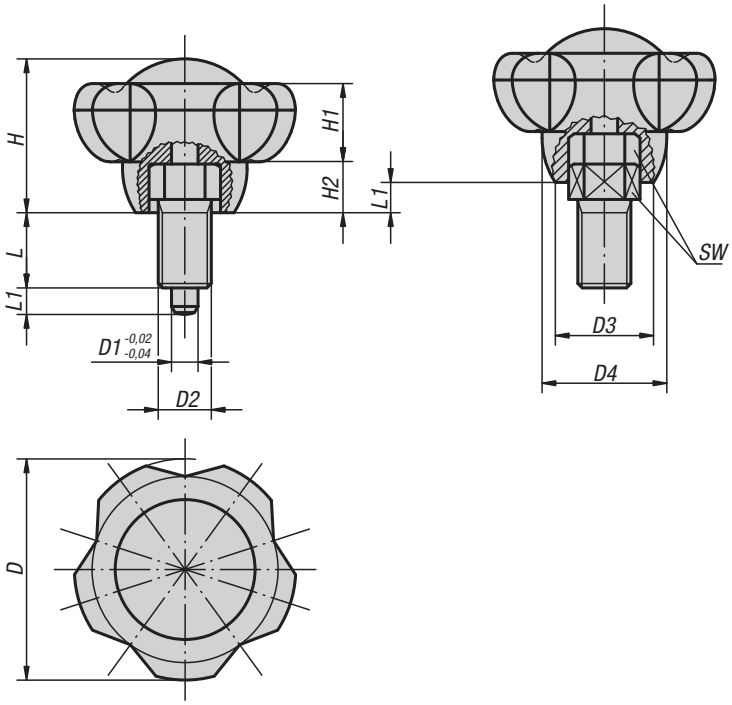
Note:

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

K0245

Indexing plungers

with five lobe grip



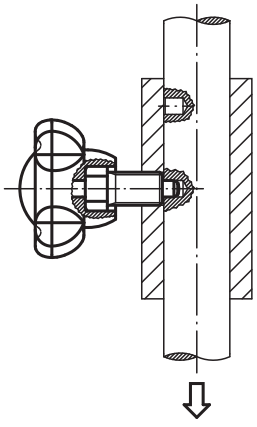
These NOVO grip indexing plungers enable indexing and clamping with a single component. Especially useful for telescopic adjustments which can be positioned and clamped quickly, precisely and simply.

Material:
Thermoplastic.
Indexing pin and screw steel 5.8.

Version:
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 with black grey grip caps.



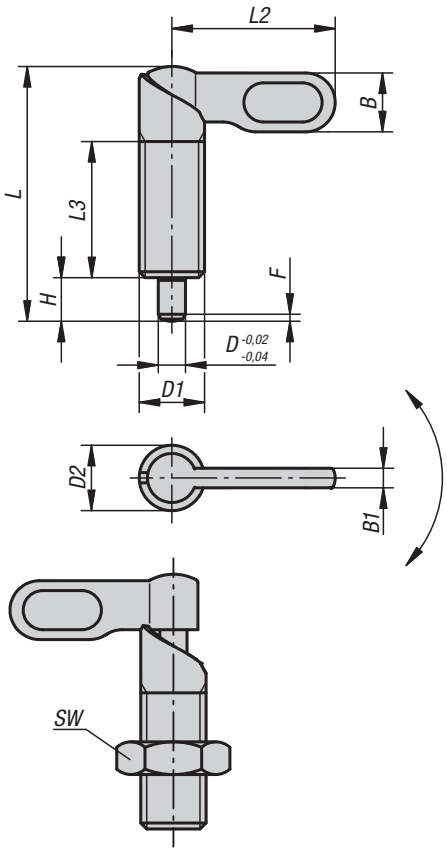
black grey	light grey Δ = 5	traffic red Δ = 6	rape yellow Δ = 7
RAL 7021	RAL 7035	RAL 3020	RAL 1021

KIPP Indexing plungers with five lobe grip

Order No.	Size	D	D1	D2	D3	D4	H	H1	H2	L	L1	SW
K0245.1105Δ	1	50	5	M10x1	22,2	28,2	34,8	17,8	11,5	13	5	13
K0245.1206Δ	2	50	6	M12x1,5	22,2	28,2	34,8	17,8	11,5	17	6	14
K0245.13085Δ	3	63	8	M16x1,5	28	35,5	44	22,5	14,5	22	8	19
K0245.1410Δ	4	63	10	M20x1,5	28	35,5	44	22,5	14,5	24	10	22

K0348

Cam-action indexing plungers



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:
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.
A notch ensures that the handle remains in this position.

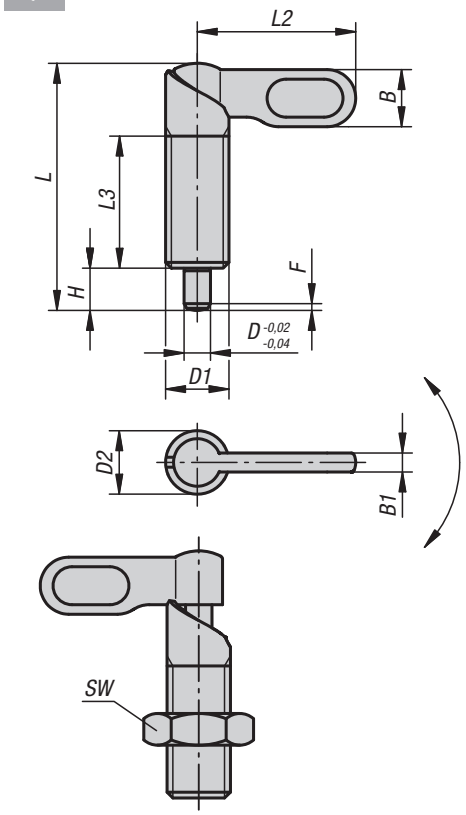
KIPP Cam-action indexing plungers

Order No. Form A	Order No. Form C	Order No. Form B	Order No. Form D	D	D1	D2	L	L2	L3	B	B1	H	SW	F x 30°	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

K0637

Cam-action indexing plungers

stainless steel



Form A
grip uncoated
without nut

Form B
grip uncoated
with nut

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.

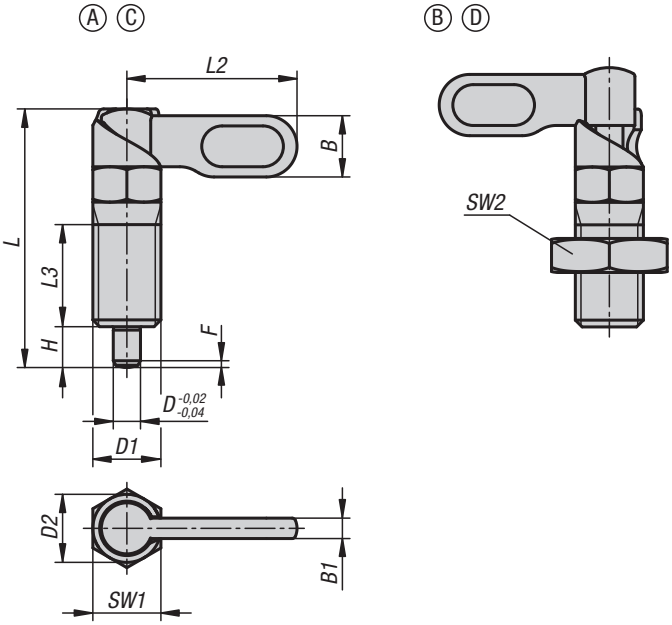
KIPP Cam-action indexing plungers stainless steel

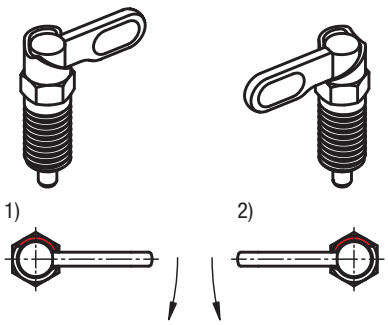
Order No. Form A	Order No. Form B	D	D1	D2	L	L2	L3	B	B1	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0637.1040410	K0637.1050410	4	M10	10	38	25	20	9	3	6	-/17	1	8	14
K0637.1040510	K0637.1050510	5	M10	10	38	25	20	9	3	6	-/17	1,3	8	14
K0637.1040610	K0637.1050610	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

K1284

Cam action indexing plunger

with stop





Material:
Steel grade 5.8.

Version:
Black oxidised.
Pin hardened and ground.

Sample order:
K1284.1040616

Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.
A notch ensures that the handle remains in this position.
A stop prevents the handle being rotated through more than 180° ensuring that the pin remains retracted.
Selecting which side the stop is on defines the rotation direction of the plunger.

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

1) stop left
2) stop right

KIPP Cam action indexing plunger with stop

Order No. Form A	Order No. Form C	Type	D	D1	D2	L	L2	L3	B	B1	H	SW1	F x 30°	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

Order No. Form A	Order No. Form C	Type	D	D1	D2	L	L2	L3	B	B1	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1284.2040410	**K1284.2060410**	right	4	M10	10	38	25	15	9	3	6	10	1	8	14
K1284.2040510	**K1284.2060510**	right	5	M10	10	38	25	15	9	3	6	10	1,3	8	14
K1284.2040610	**K1284.2060610**	right	6	M10	10	38	25	15	9	3	6	10	1,8	8	14
K1284.2040512	**K1284.2060512**	right	5	M12	12	47,8	30	19	10,8	3,6	8	12	1,3	8	15
K1284.2040612	**K1284.2060612**	right	6	M12	12	47,8	30	19	10,8	3,6	8	12	1,8	8	15
K1284.2040812	**K1284.2060812**	right	8	M12	12	47,8	30	19	10,8	3,6	8	12	2,3	8	15
K1284.2040616	**K1284.2060616**	right	6	M16	16	60,4	40	26	14,4	4,8	10	16	1,8	15	35
K1284.2040816	**K1284.2060816**	right	8	M16	16	60,4	40	26	14,4	4,8	10	16	2,3	15	35
K1284.2041016	**K1284.2061016**	right	10	M16	16	60,4	40	26	14,4	4,8	10	16	2,8	15	35
K1284.20408201	**K1284.20608201**	right	8	M20x1,5	20	70	50	30	18	6	12	20	2,3	20	60
K1284.20410201	**K1284.20610201**	right	10	M20x1,5	20	70	50	30	18	6	12	20	2,8	20	60
K1284.20412201	**K1284.20612201**	right	12	M20x1,5	20	70	50	30	18	6	12	20	3	20	60

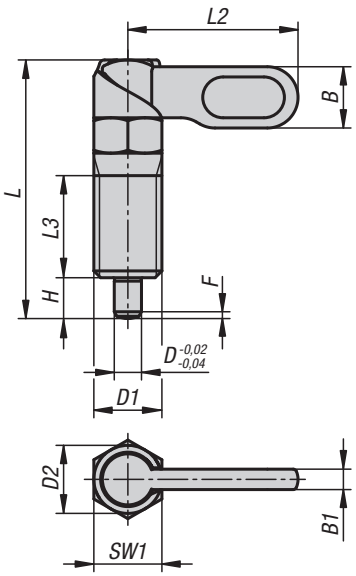
Order No. Form B	Order No. Form D	Type	D	D1	D2	L	L2	L3	B	B1	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1284.1050410	**K1284.1070410**	left	4	M10	10	38	25	15	9	3	6	10	17	1	8	14
K1284.1050510	**K1284.1070510**	left	5	M10	10	38	25	15	9	3	6	10	17	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

K1285

Cam action indexing plunger

stainless steel, with stop

Ⓐ



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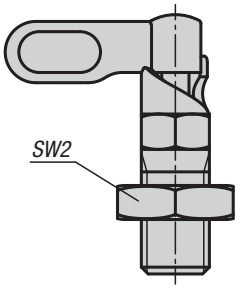


Material:
Stainless steel 1.4305.

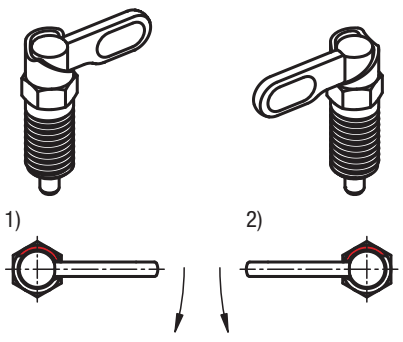
Version:
Bright. Indexing pin ground, not hardened.

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



K1285

Cam action indexing plunger

stainless steel, with stop

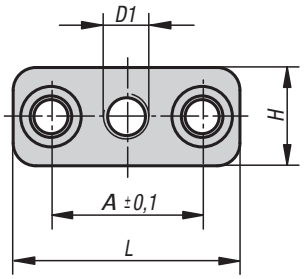
KIPP Cam action indexing plunger, stainless steel, with stop

Order No. Form A	Order No. Form B	Type	D	D1	D2	L	L2	L3	B	B1	H	SW1	SW2	F x 30°	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

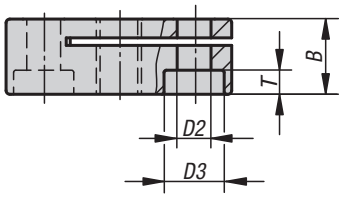
K0638

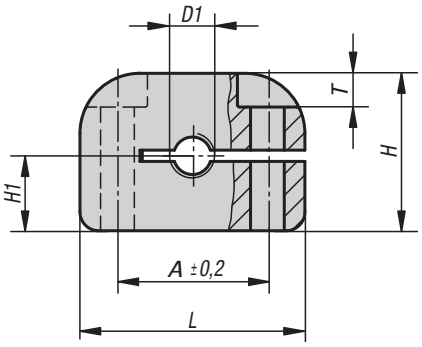
Mounting brackets

aluminium

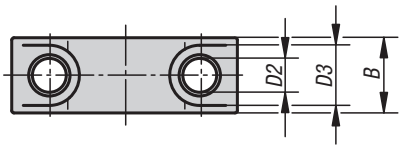


Form A
Fastening holes
parallel to thread





Form B
Fastening holes
perpendicular to thread

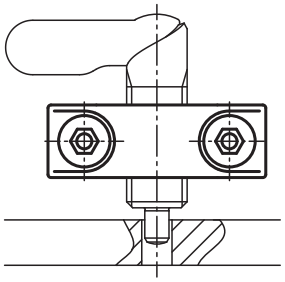


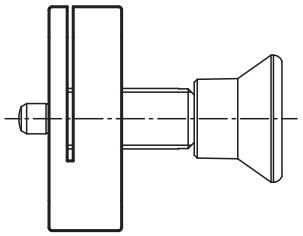
Material:
Aluminium 3.2163

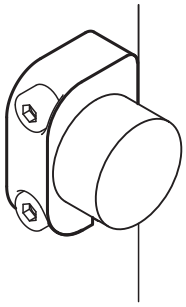
Version:
black.

Sample order:
K0638.308

Note:
Mounting brackets are an assembly aid for cam-action and other indexing plungers and expand the application field. For use with socket head screws DIN 912 / ISO 4762.







Király Trading KFT H-1151 Budapest Mogyoród útja 12-14 E-mail: pzoli@kiralytrading.hu

Mounting brackets

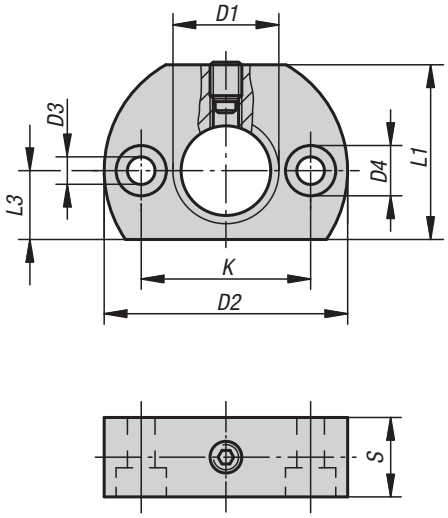
aluminium

KIPP Mounting bracket aluminium

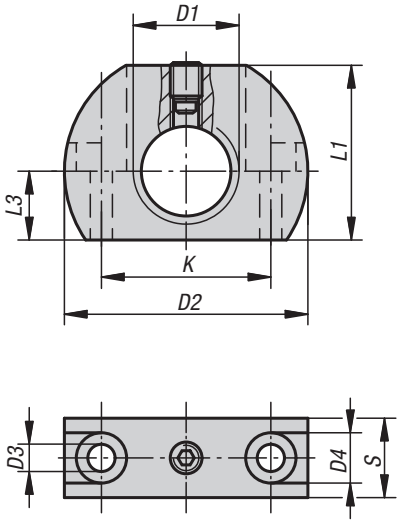
Order No.	Form	D1	D2	D3	A	B	H	H1	L	T
K0638.306	A	M6	4,5	8	20	10	13	-	30	3,2
K0638.3061	A	M6x0,75	4,5	8	20	10	13	-	30	3,2
K0638.308	A	M8	4,5	8	20	10	13	-	30	3,2
K0638.3081	A	M8x1	4,5	8	20	10	13	-	30	3,2
K0638.310	A	M10	5,5	10	24	12	18	-	37	3,9
K0638.3101	A	M10x1	5,5	10	24	12	18	-	37	3,9
K0638.312	A	M12	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

K0638

Mounting brackets



Form A
fastening holes parallel
to indexing plunger



Form B
fastening holes perpendicular
to indexing plunger

Material:
Steel.

Version:
Black oxidised.

Sample order:
K0638.116

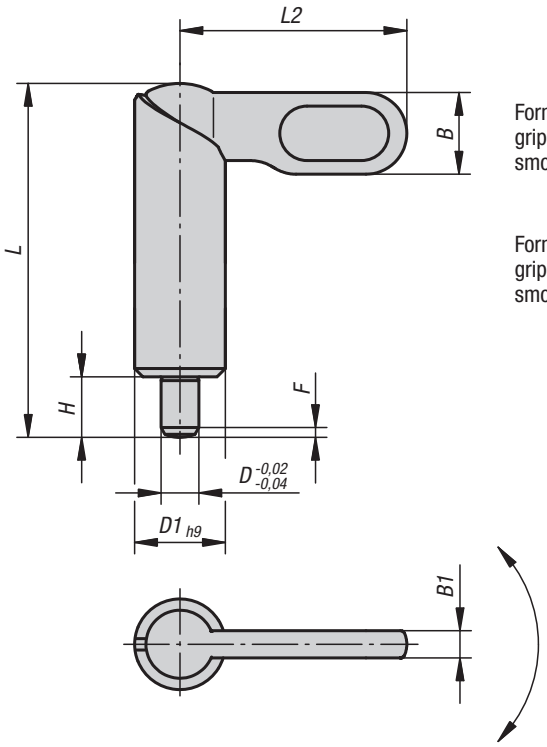
Note:
Mounting brackets are assembly aids for cam-action indexing plungers and extend their application field. They can also be used for other indexing plungers.

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

K0639

Cam-action indexing plungers



Form E
grip uncoated
smooth sleeve

Form F
grip powder-coated
smooth sleeve

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

Version:
Black oxidised.
Pin hardened and ground.

Sample order:
K0639.091220

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

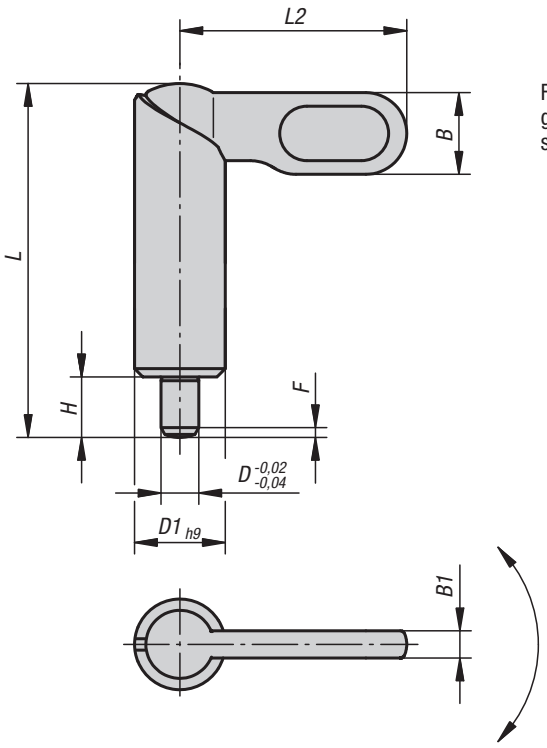
KIPP Cam-action indexing plungers

Order No. Form E	Order No. Form F	D	D1	L	L2	B	B1	H	F x 30°	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

K0640

Cam-action indexing plungers

stainless steel



Form E
grip uncoated
smooth sleeve

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

Version:
Bright. Indexing pin ground, not hardened.

Sample order:
K0640.1081220

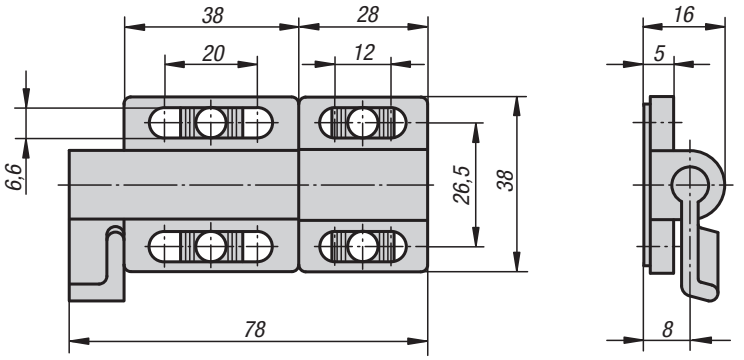
Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.
A notch ensures that the handle remains in this position.
To weld the plungers we recommend inert gas shielded welding with TIG welding equipment.

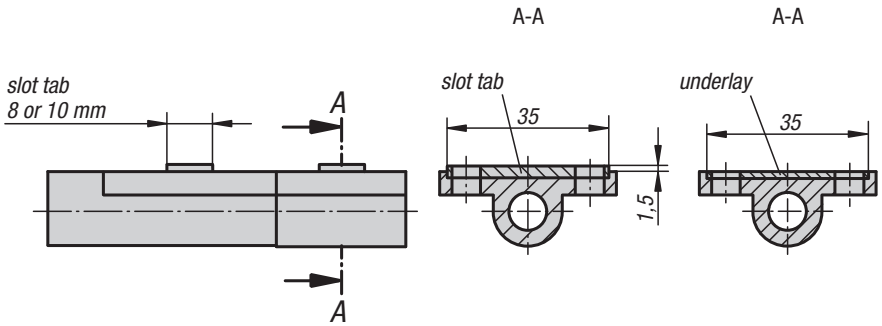
KIPP Cam-action indexing plungers stainless steel

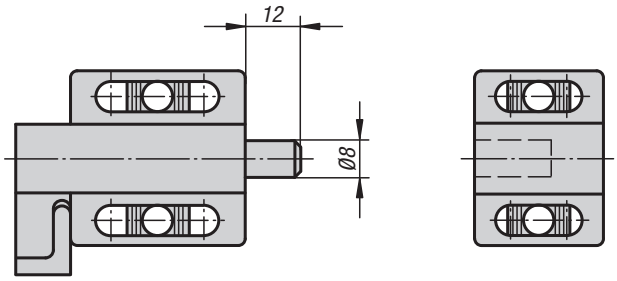
Order No.	Form	D	D1	L	L2	B	B1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0640.1080410	E	4	10	38	25	9	3	6	1	8	14
K0640.1080510	E	5	10	38	25	9	3	6	1,3	8	14
K0640.1080610	E	6	10	38	25	9	3	6	1,8	8	14
K0640.1080512	E	5	12	46,8	30	10,8	3,6	8	1,3	8	15
K0640.1080612	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

K0349

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

K0363

Ball lock pins

self-locking

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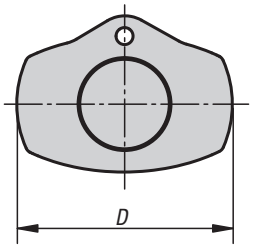

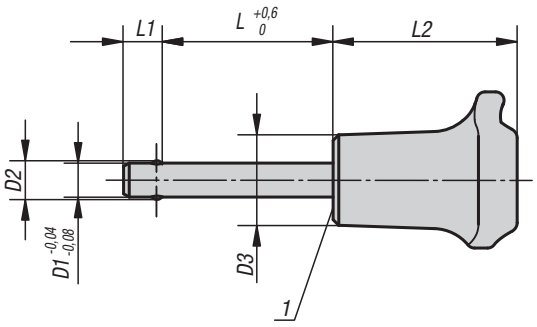

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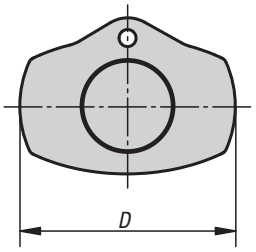
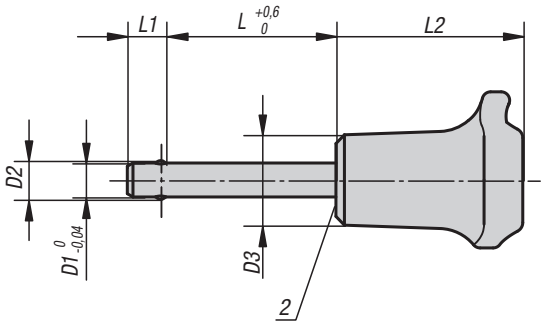
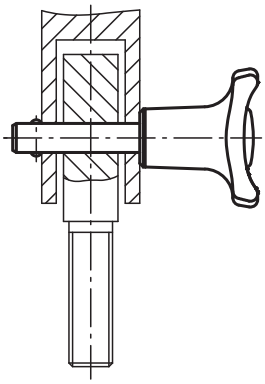






Material:
Grip and push button thermoplastic.
Metal parts stainless steel.

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

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

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

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

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

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

Drawing reference:
1) Metal collar
2) Plastic collar

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

Order No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max.kN
K0363.3805* **	38	5	5,5	16	10/15/20/25/30	6	32,5	5	15
K0363.3806* **	38	6	6,85	16	10/15/20/25/30/35/40/45/50	7	32,5	6	22
K0363.3808* **	38	8	9,5	16	20/25/30/35/40/45/50	8	32,5	8	38
K0363.4710* **	47	10	12	23	20/25/30/35/40/45/50/60	9	40	10	60
K0363.4712* **	47	12	14,5	23	25/30/35/40/45/50/60/70/80	10	40	12	86
K0363.4716* **	47	16	19	23	30/35/40/45/50/60/70/80	13	40	16	153

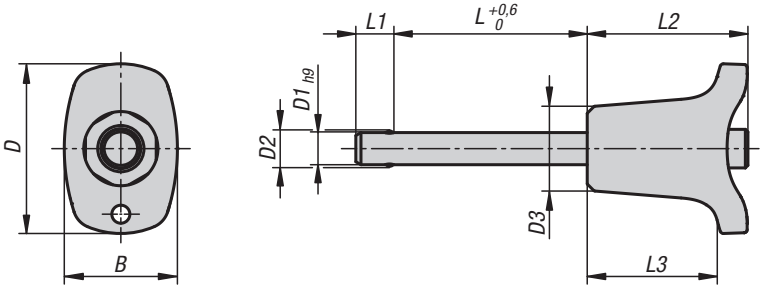
KIPP Ball lock pins, self-locking, Form B, plastic collar

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

K0792

Ball lock pins

self-locking



Material:
Grip thermoplastic.
Steel parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

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

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

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

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

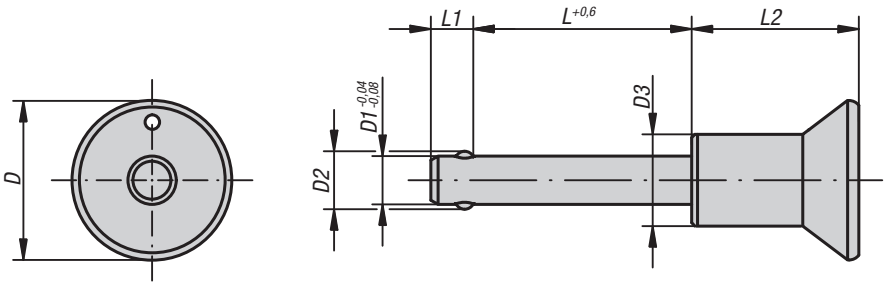
KIPP Ball lock pins self-locking

Order No.	B	D	D1	D2	D3	L	L1	L2	L3	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	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	6	22
K0792.003308* **	23	33,2	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	26,1	8	38
K0792.003310* **	23	33,2	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	26,1	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	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	16	153

K0364

Ball lock pins

self-locking stainless steel



Material:
Metal parts stainless steel.

Version:
Bright.

Sample order:
K0364.3110030
(include length L e.g. 030 for L = 30 mm)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.
Corrosion resistant. Option for connecting retaining cable. Application temperature max. +250 °C.

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

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

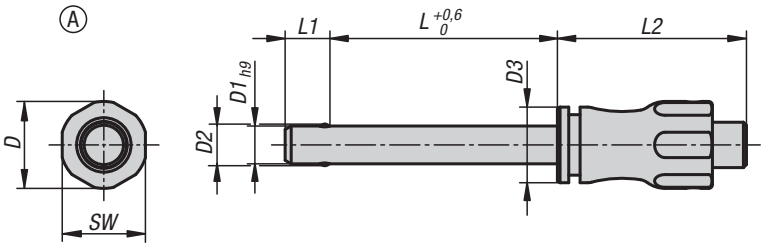
KIPP Ball lock pins self-locking stainless steel

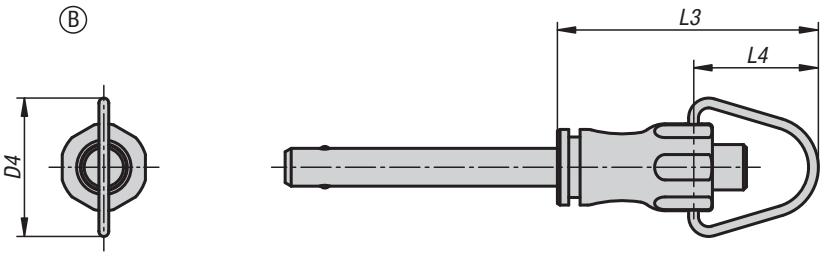
Order No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max.kN
K0364.2305* **	25	5	5,5	14	10/15/20/25/30	6	26,5	5	15
K0364.2306* **	25	6	6,85	14	10/15/20/25/30/35/40/45/50	7	26,5	6	22
K0364.2308* **	25	8	9,5	14	20/25/30/35/40/45/50	8	26,5	8	38
K0364.3110* **	33	10	12	19	20/25/30/35/40/45/50/60	9	34,6	10	60
K0364.3112* **	33	12	14,5	19	25/30/35/40/45/50/60/70/80	10	34,6	12	86
K0364.3116* **	33	16	19	20	30/35/40/45/50/60/70/80	13,3	34,6	16	153

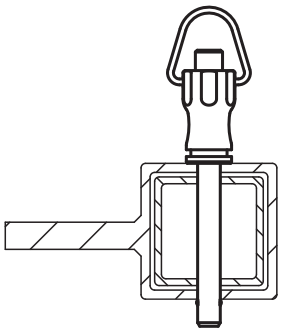
K0790

Ball lock pins

stainless steel, self-locking







Material:
Grip and push button stainless steel 1.4305.
Pin stainless steel 1.4305.
Balls stainless steel 1.4125.
Compression spring and handle stainless steel 1.4310.

Version:
Bright.

Sample order:
K0790.001508050
(include length L e.g. 050 for L = 50 mm)

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

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

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

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

Order No. Form A	D	D1	D2	D3	L	L1	L2	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	11	5	15
K0790.001206* **	11,5	6	6,85	10	10/15/20/25/30/35/40/45/50	6,8	25	11	6	22
K0790.001508* **	15,5	8	9,5	13,5	20/25/30/35/40/45/50	7,8	33	15	8	38
K0790.001510* **	15,5	10	12	13,5	20/25/30/35/40/45/50/60	8,9	33	15	10	60
K0790.002112* **	22	12	14,5	20	25/30/35/40/45/50/60/70/80	9,9	39,5	21	12	86
K0790.002116* **	22	16	19	20	30/35/40/45/50/60/70/80	13,1	39,5	21	16	153

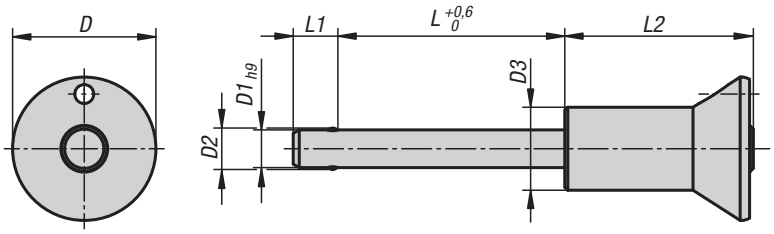
KIPP Ball lock pins stainless steel self-locking, Form B

Order No. Form B	D	D1	D2	D3	D4	L	L1	L2	L3	L4	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	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	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	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	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	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	21	16	153

K0791

Ball lock pins with mushroom knob

stainless steel, self-locking



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.

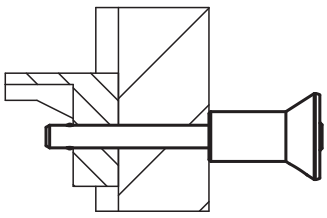
Version:
Bright.

Sample order:
K0791.02510050
(include length L e.g. 050 for L = 50 mm)

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

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

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



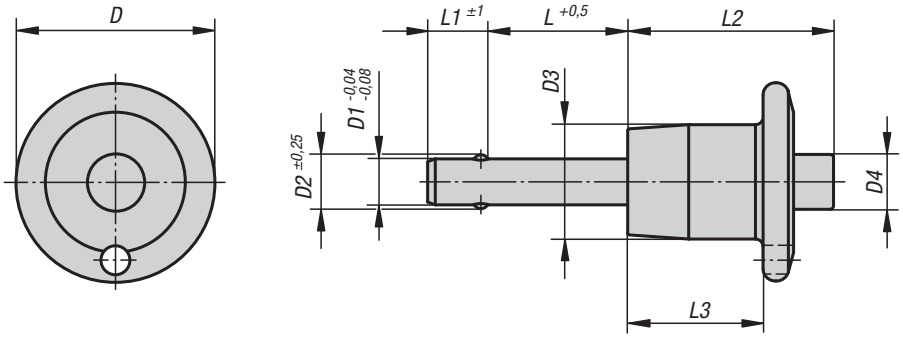
KIPP Ball lock pins with mushroom knob stainless steel self-locking

Order No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max.kN
K0791.01905* **	19	5	5,5	11	10/15/20/25/30	5,9	25	5	15
K0791.01906* **	19	6	6,85	11	10/15/20/25/30/35/40/45/50	6,8	25	6	22
K0791.02508* **	25	8	9,5	14	20/25/30/35/40/45/50	7,8	33	8	38
K0791.02510* **	25	10	12	14	20/25/30/35/40/45/50/60	8,9	33	10	60
K0791.03512* **	35	12	14,5	22	25/30/35/40/45/50/60/70/80	9,9	39,5	12	86
K0791.03516* **	35	16	19	22	30/35/40/45/50/60/70/80	13,1	39,5	16	153

K0641

Ball lock pins

with mushroom knob, self-locking, stainless steel



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

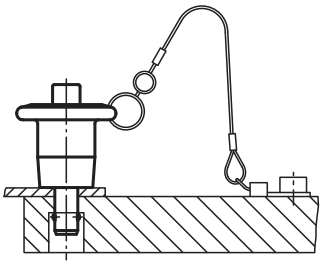
Version:
All stainless steel parts passivated.
Pin hardened to min. 40 HRC.
Balls hardened to 58 +4 HRC.

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

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

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

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



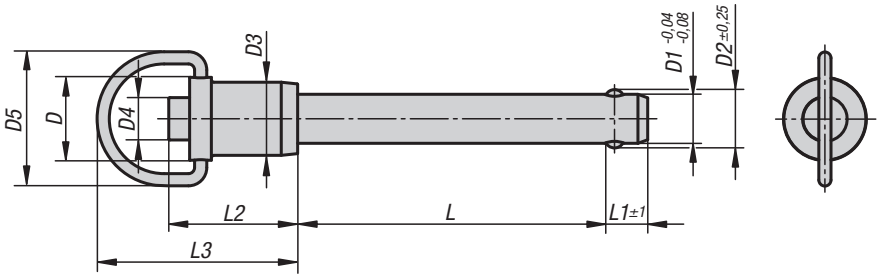
KIPP Ball lock pins with mushroom knob, self-locking, stainless steel

Order No.	D	D1	D2	D3	D4	L	L1	L2	L3	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	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	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	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	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	12	144,06

K0746

Ball lock pins

with grip ring, self-locking, stainless steel



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

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

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

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

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

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

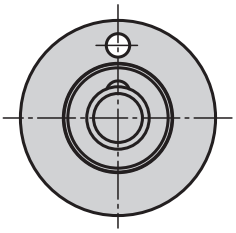
Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

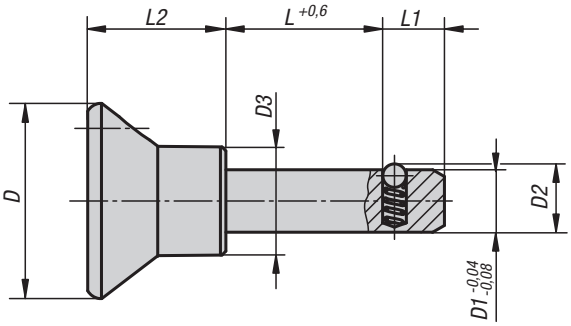
KIPP Ball lock pins with grip ring, self-locking, stainless steel

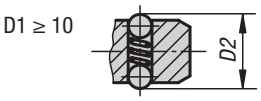
Order No.	D	D1	D2	D3	D4	D5	L	L1	L2	L3	Receiver hole H11	Shearing force double shear max.kN
K0746.01505* **	15	5	5,54	11,9	5,8	29,5	10/15/20/25/30/35/40/45/50/60/70/80/90/100	6	23,4	36,8	5	24,4
K0746.01506* **	15	6	6,99	11,9	5,8	29,5	10/15/20/25/30/35/40/45/50/60/70/80/90/100	7	23,4	36,8	6	35,64
K0746.01508* **	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	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	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	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	16	257,18

K0365

Locking pins







Material:
Grip thermoplastic.
Steel parts stainless steel.

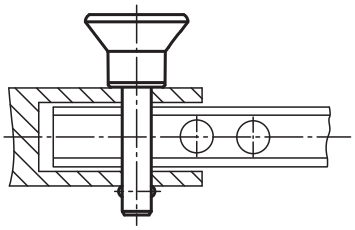
Version:
Grip black.
Steel parts bright.

Sample order:
K0365.2508020

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

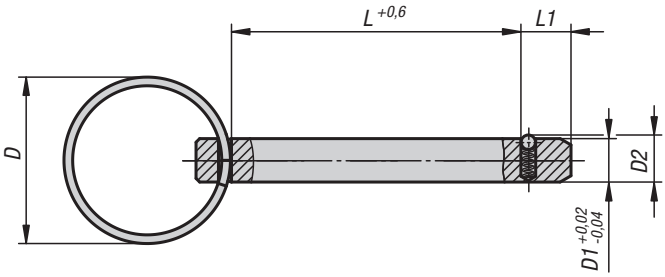


KIPP Locking pins

Order No.	D	D1	D2	D3	L	L1	L2	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	6	22
K0365.2508* **	25	8	8,75	14	15/20/25/30/40/50	8	17,7	8	38
K0365.3310* **	33	10	12	19	15/20/25/30/40/50	9	24	10	60
K0365.3312* **	33	12	14,5	19	20/30/40/50	10	24	12	86

K0365

Locking pins with key ring



Material:
Pin steel.
Key ring stainless steel.

Version:
Pins galvanized.
Key ring bright.

Sample order:
K0365.102306020
(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.

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

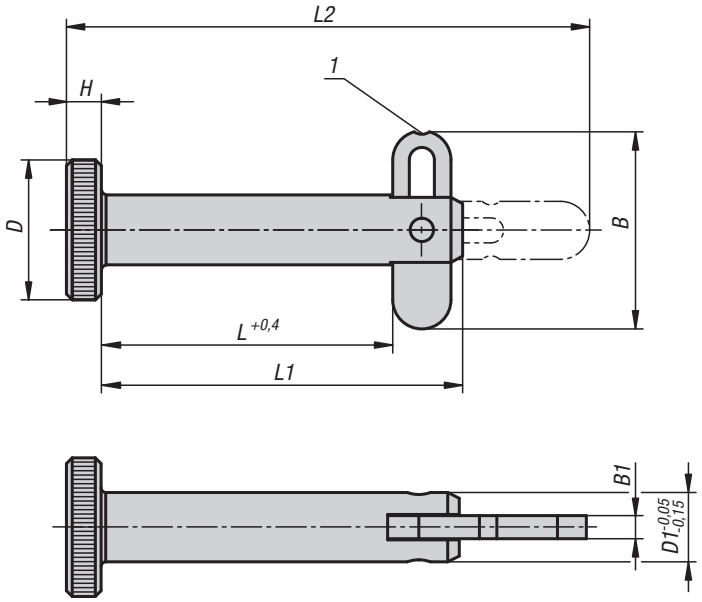
KIPP Locking pins with key ring

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

Notes

K0776

Locking pins with folding latch

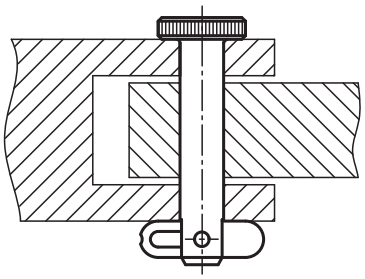


Material:
Steel galvanized.

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



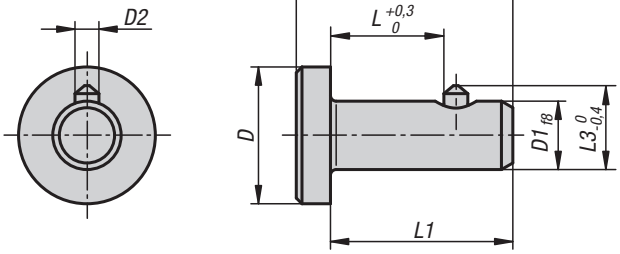
KIPP Locking pins with folding latch

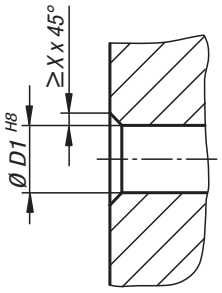
Order No.	D	D1	L	L1	L2	H	B	B1	Receiving hole H11	Shearing force double shear max.kN	Extraction force F N
K0776.06025	12	6	25	31	45	3	16,9	2	6	12	190
K0776.06040	12	6	40	46	60	3	16,9	2	6	12	190
K0776.06050	12	6	50	56	70	3	16,9	2	6	12	190
K0776.08025	16	8	25	31	46	4	16,9	2	8	21	270
K0776.08040	16	8	40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

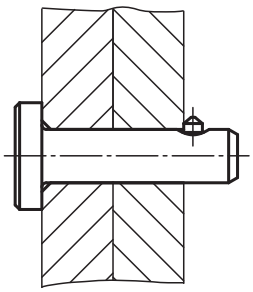
Notes

K0772

Locking pins with axial lock







Material:
Steel.

Version:
galvanized.

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°

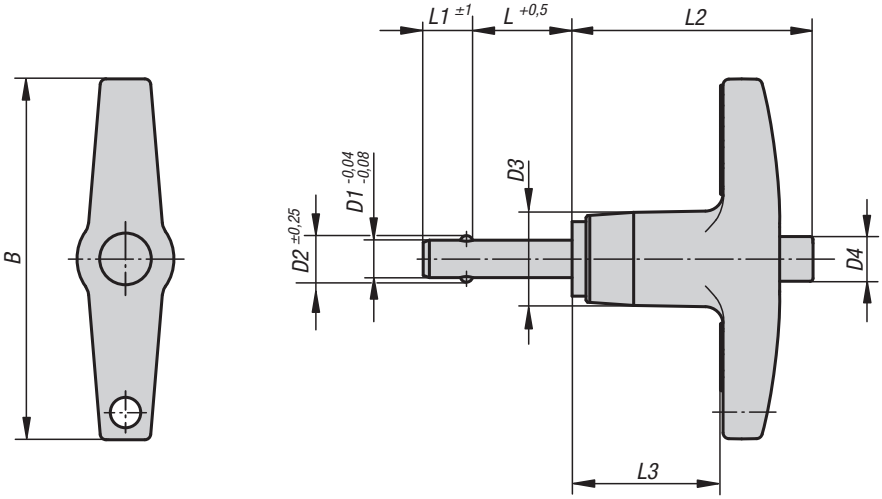
KIPP Locking pins with axial lock

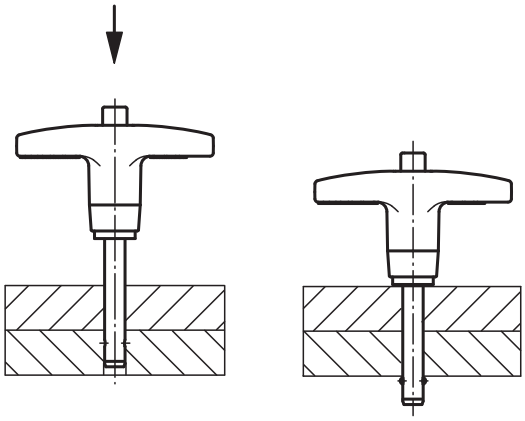
Order No.	D	D1	D2	X	L	L1	L2	L3	Shearing force double shear max.kN
K0772.1206010	12	6	2,1	1,1	10	16	19	7,4	12
K0772.1206012	12	6	2,1	1,1	12	18	21	7,4	12
K0772.1206016	12	6	2,1	1,1	16	22	25	7,4	12
K0772.1206020	12	6	2,1	1,1	20	26	29	7,4	12
K0772.1608012	16	8	2,1	1,1	12	18	22	9,4	22
K0772.1608016	16	8	2,1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

K0366

Ball lock pins

with T-grip, self-locking





Material:
Pin stainless steel 1.4542.
Grip die-cast aluminium EN-AC 46000.
Push button aluminium EN-AW 2024 T4.
Balls stainless steel 1.4125.
Compression spring stainless steel.

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

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

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

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

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

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

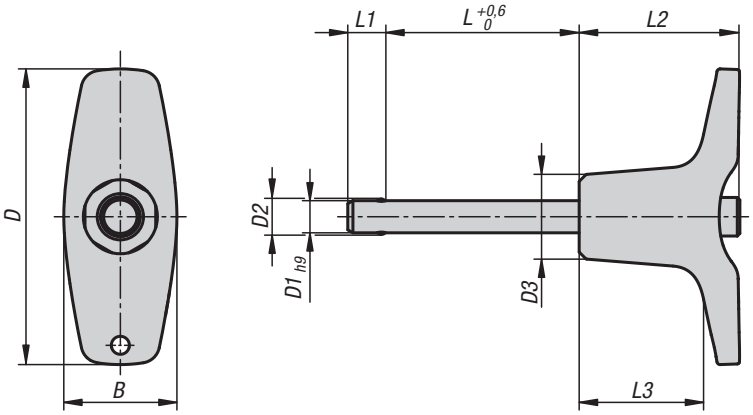
KIPP Ball lock pins with T-grip, self-locking

Order No.	B	D1	D2	D3	D4	L	L1	L2	L3	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	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	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	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	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	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	16	257,18

K0792

Ball lock pins

with T-grip, self-locking



Material:
Grip thermoplastic.
Steel parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

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

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

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

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

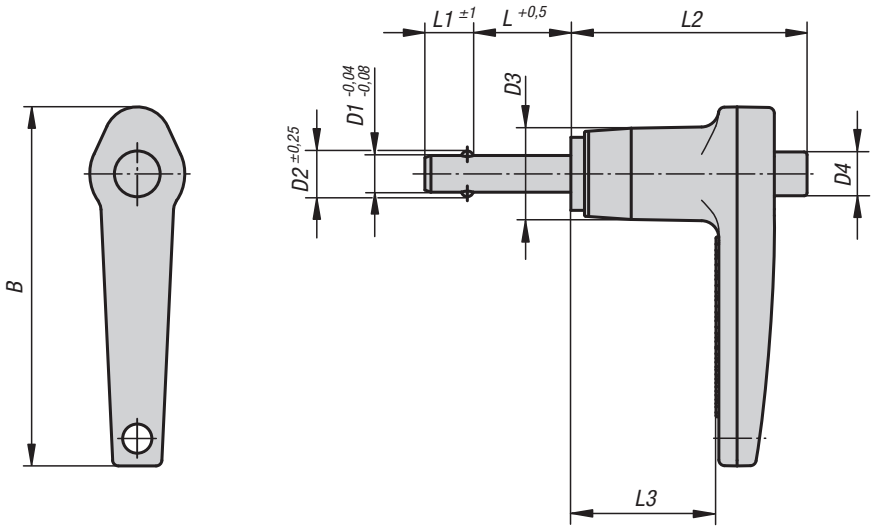
KIPP Ball lock pins with T-grip, self-locking

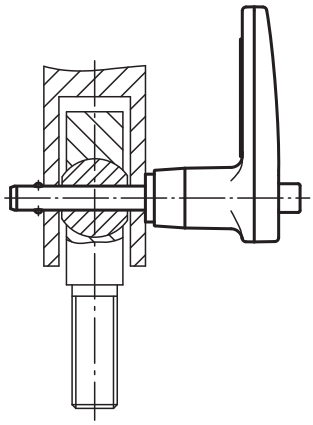
Order No.	B	D	D1	D2	D3	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max.kN
K0792.204605* **	17,6	46	5	5,5	13,2	10/15/20/25/30	5,9	25	19,4	5	15
K0792.204606* **	17,6	46	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	19,4	6	22
K0792.206308* **	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	8	38
K0792.206310* **	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	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	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	16	153

K0642

Ball lock pins

with L-grip, self-locking





Material:
Pin stainless steel 1.4542.
Grip die-cast aluminium EN-AC 46000.
Push button aluminium EN-AW 2024 T4.
Balls stainless steel 1.4125.
Compression spring stainless steel.

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

Sample order:
K0642.14405030
(include length L e.g. 030 for L = 30 mm)

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

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

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

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

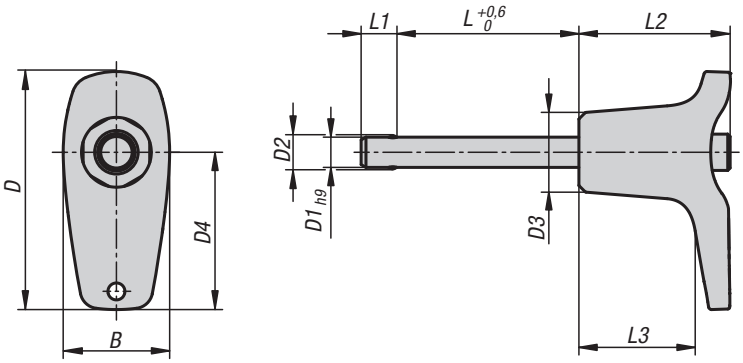
KIPP Ball lock pins with L-grip, self-locking

Order No.	B	D1	D2	D3	D4	L	L1	L2	L3	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	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	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	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	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	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	16	257,18

K0792

Ball lock pins

with L-grip, self-locking



Material:
Grip thermoplastic.
Steel parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

Sample order:
K0792.102606050
(include length L e.g. 050 for L = 50 mm.)

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

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

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

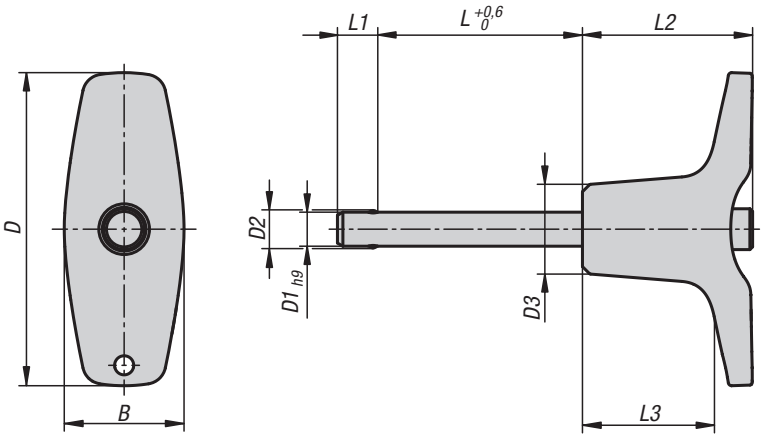
KIPP Ball lock pins with L-grip, self-locking

Order No.	B	D	D1	D2	D3	D4	L	L1	L2	L3	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	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	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	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	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	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	16	153

K0793

Ball lock pins

with T-grip, self-locking



Material:
Die-cast zinc.
Metal parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

Sample order:
K0793.204606050
(include length L e.g. 050 for L = 50 mm.)

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

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

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

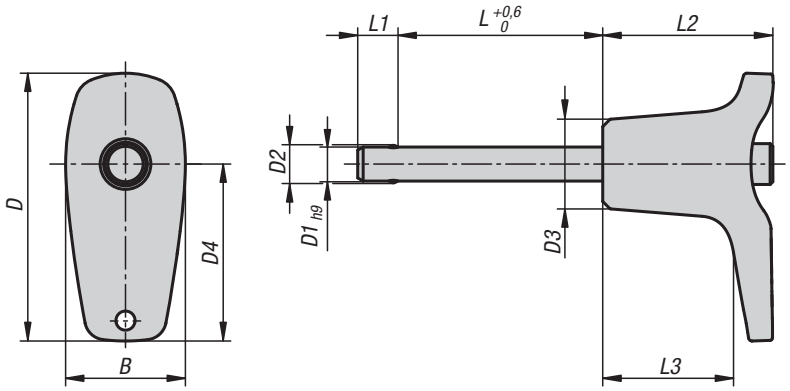
KIPP Ball lock pins with T-grip, self-locking

Order No.	B	D	D1	D2	D3	L	L1	L2	L3	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	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	6	22
K0793.206308* **	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	8	38
K0793.206310* **	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	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	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	16	153

K0793

Ball lock pins

with L-grip, self-locking



Material:
Die-cast zinc.
Metal parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

Sample order:
K0793.102606050
(include length L e.g. 050 for L = 50 mm.)

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

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

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

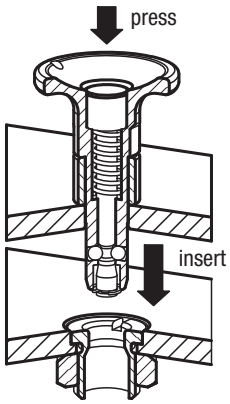
KIPP Ball lock pins with L-grip, self-locking

Order No.	B	D	D1	D2	D3	D4	L	L1	L2	L3	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	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	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	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	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	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	16	153

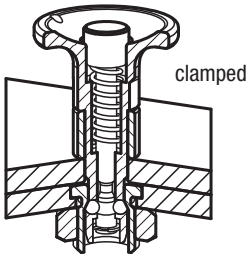
Technical information for ball lock pins K1063, K1064 and locating bushes K1065

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.

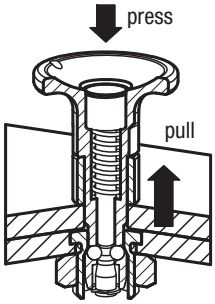
Repeat accuracy of ± 0.25 for screwed-in and pushed-in version.
The repeat accuracy can be increased with the aid of additional locating pins.



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



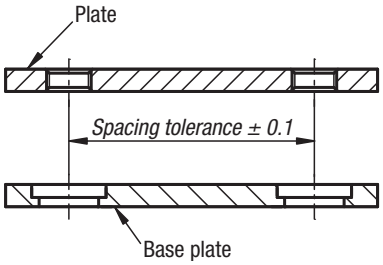
Release the knob to clamp the plates.



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

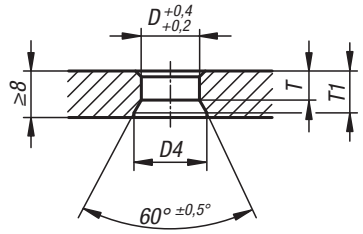
Assembly:
The mounting situation is customer specific. Plates of different thicknesses can be joined. The different mounting options form A to D are described on the product pages.

Recommended tolerances when using 2 items



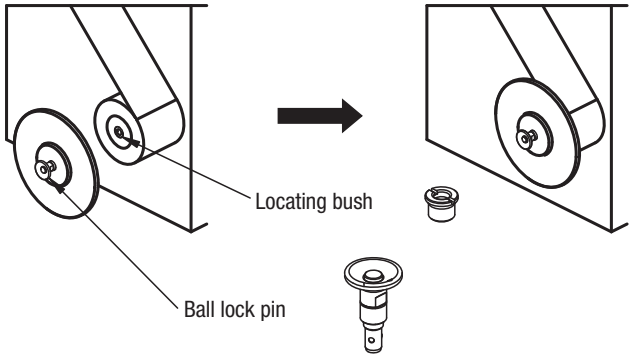
Application without locating bush
Installation dimensions

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



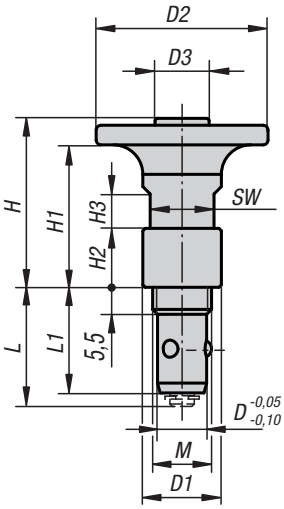
For ball lock pin D =	D	D4 min.	T	T1
6	6	12,5	4,9	~6,6
10	10	8	5	~7,2

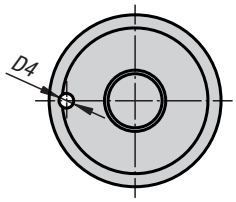
Application example:
Quick installation and removal of flange plates for paper rolls.



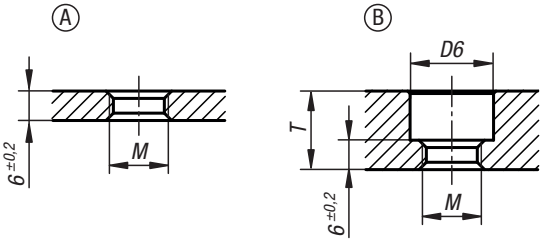
K1063

Ball lock pins

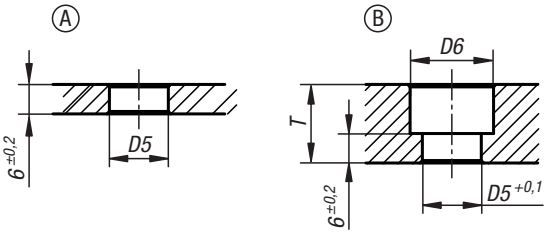




Screw-in ball lock pin



Push-in ball lock pin



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

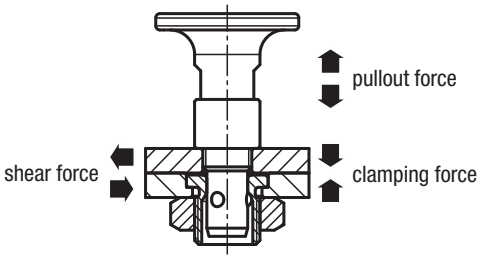
Version:
Housing nickel-plated.
Knob tempered and nickel-plated.
Ball tempered.

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

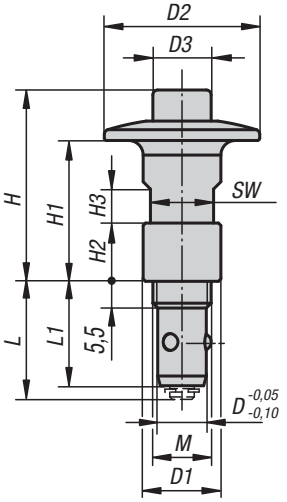
Order No.	D	D1	D2	D3	D4	M	L	L1	H	H1	H2	H3	SW	D5	D6	T max.
K1063.621	6	12	25	8	-	M8	21	19	22,2	18	6	5,5	10	8	13	10
K1063.1024	10	16	35	11	3	M12x1,5	23,5	21,5	34,4	29	12	7	13	12	17	16

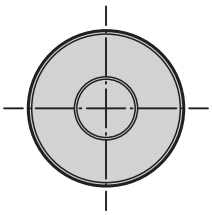
KIPP Ball lock pin, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1063.621	30	3	0,5	180 °C
K1063.1024	50	9	1,5	180 °C

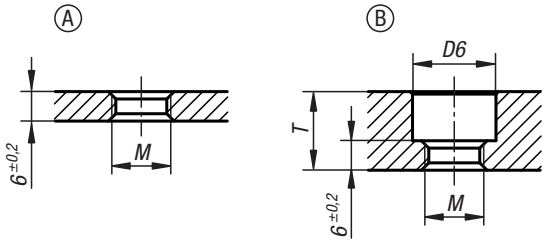
K1063

Ball lock pins stainless steel

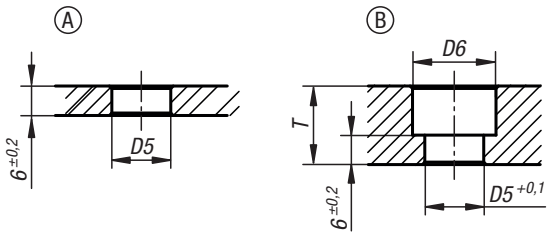


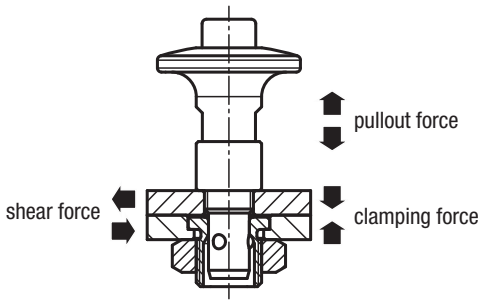


Screw-in ball lock pin



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

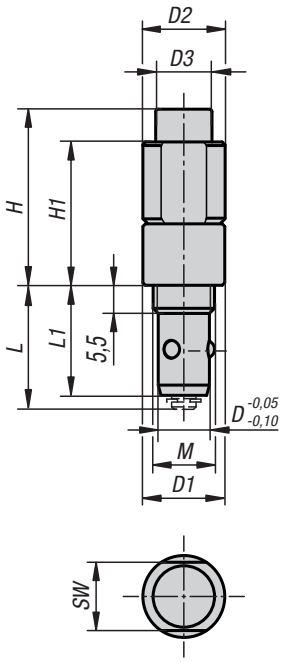
Order No.	D	D1	D2	D3	M	L	L1	H	H1	H2	H3	SW	D5	D6	T max.
K1063.6211	6	12	23	8	M8	21	19	25,8	18	6	5,5	10	8	13	10
K1063.10241	10	16	32	12	M12x1,5	23,5	21,5	39,4	29	12	7	13	12	17	16

KIPP Ball lock pin stainless steel, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1063.6211	30	3	0,5	180 °C
K1063.10241	50	9	1,5	180 °C

K1063

Ball lock pins without head



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

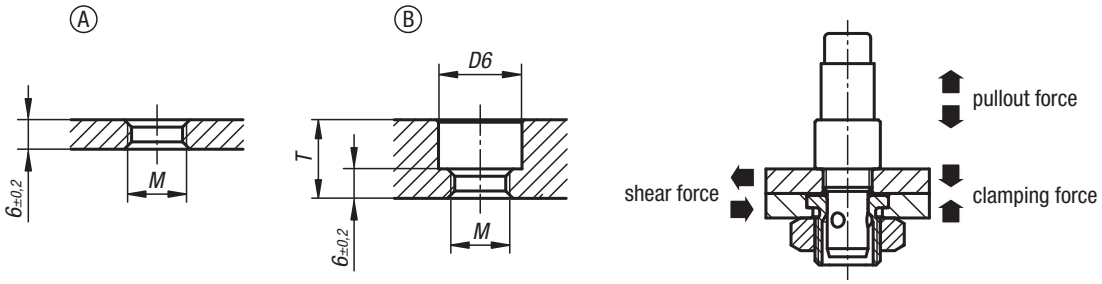
Version:
Housing nickel-plated.
Knob tempered and nickel-plated.
Ball tempered.

Sample order:
K1063.10242

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.	D	D1	D2	D3	M	L	L1	H	H1	SW	D6	T max.
K1063.10242	10	16	16	11	M12x1,5	23,5	21,5	34,4	28	13	17	16

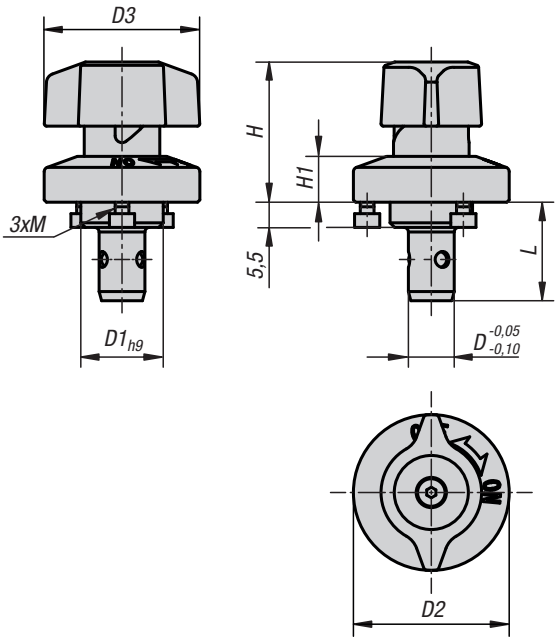
KIPP Ball lock pin without head, technical information

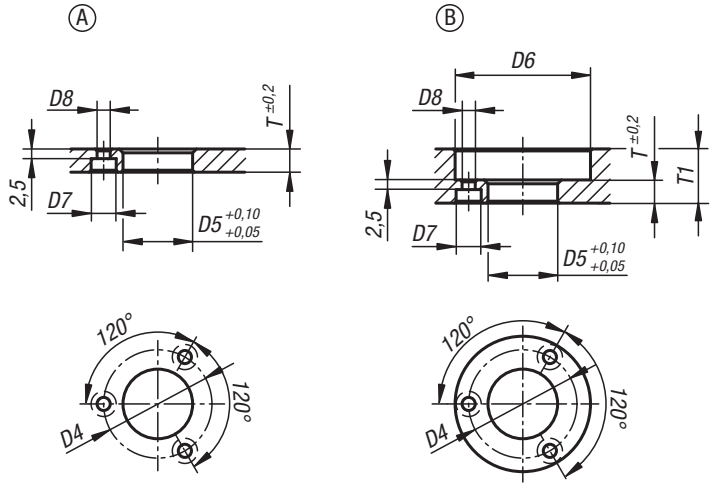
Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1063.10242	50	9	1,5	180 °C

K1064

Ball lock pins

with twist knob





Material:
Housing and pin steel.
Knob thermoplastic PA (polyamide).
Ball and spring stainless steel.

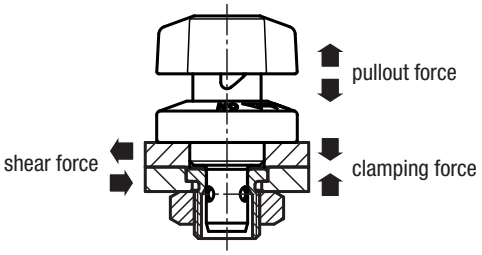
Version:
Housing nickel-plated.
Pin tempered and nickel-plated.
Knob reinforced fibreglass, black.
Ball tempered.

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.	D	D1	D2	D3	D4	H	H1	L	M	D5	D6	D7	D8	T	T1
K1064.620	6	14	25	25	21	24,5	6,5	19,5	M2x3	14	26	4,4	2,4	6	6-10
K1064.1022	10	18	34	34	28	31	10	21,5	M3x4	18	35	6,5	3,4	6	6-14
K1064.1028	10	18	34	34	28	31	10	27,5	M3x4	18	35	6,5	3,4	12	12-20

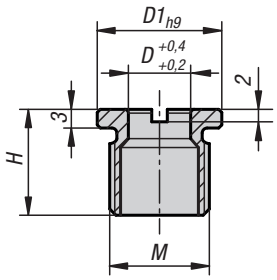
KIPP Ball lock pins with twist knob, technical information

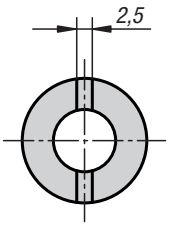
Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1064.620	30	3	0,5	130 °C
K1064.1022	50	9	1,5	130 °C
K1064.1028	50	9	1,5	130 °C

K1065

Locating bushes

for ball lock pin





Material:
Steel or stainless steel

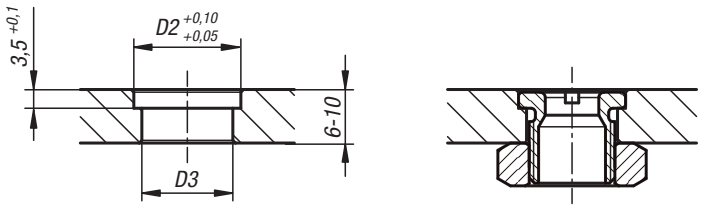
Version:
Steel nickel-plated.
Stainless steel bright.

Sample order:
K1065.61

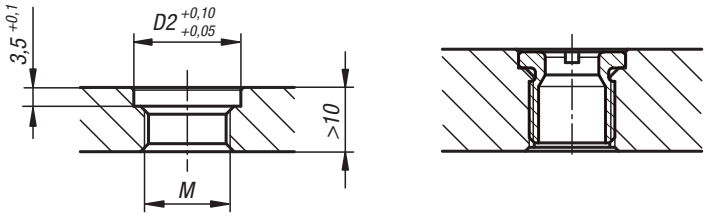
Note:
Mounting dimensions for Form A:
Mounting with nut, max. plate thickness 10 mm.
Mounting dimensions for Form B:
Screwed in, for plate thicknesses over 10 mm or in a blind hole.

On request:
Suitable nuts and assembly tool.

Ⓐ



Ⓑ



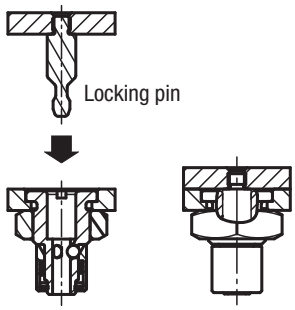
KIPP Locating bushes for ball lock pin

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

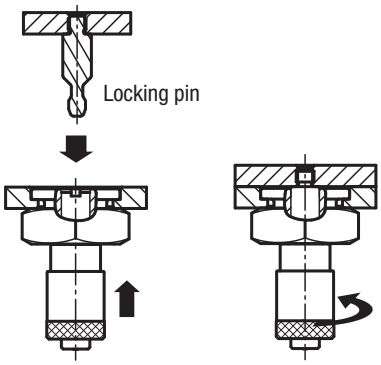
Technical information for ball lock bushes K1066 and K1067

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.

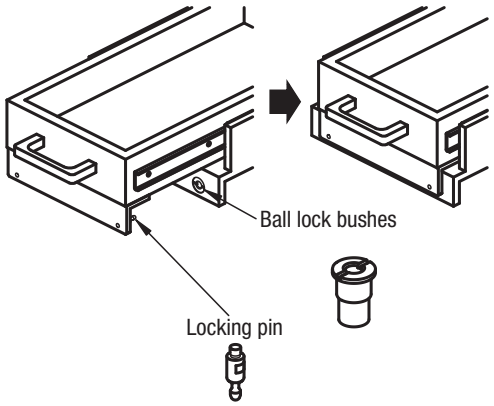


Ball lock bushes



Ball lock bushes with twist lock

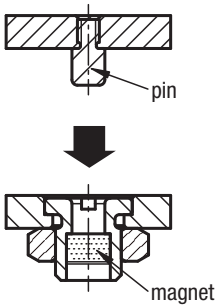
Application example:
End fixating of a sliding unit.

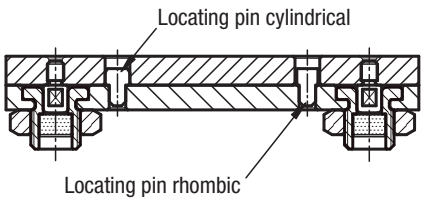


Technical information for magnetic bushes K1068 and K1069

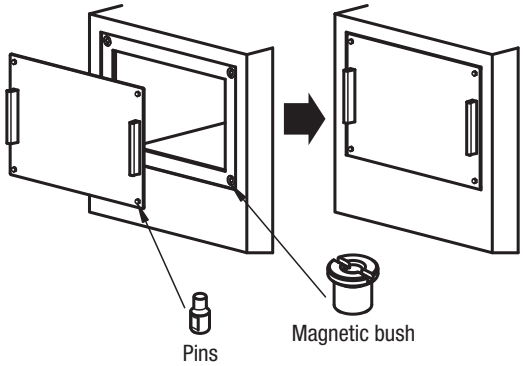
Note:
These are used to hold panels or thin plates. The pin is held in the bush housing by a magnet.
The repeat accuracy of ± 0.25 mm can be increased with the aid of additional locating pins.

Application:



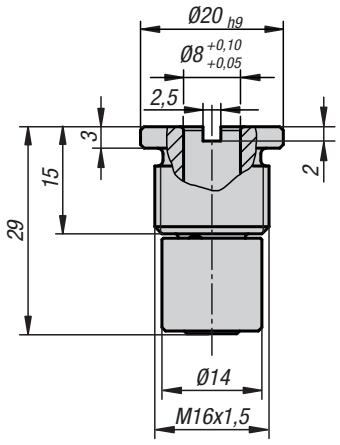


Application example:
Quick installation or removal of hatches



K1066

Ball lock bushes



Material:
Housing steel.
Balls and springs stainless steel.

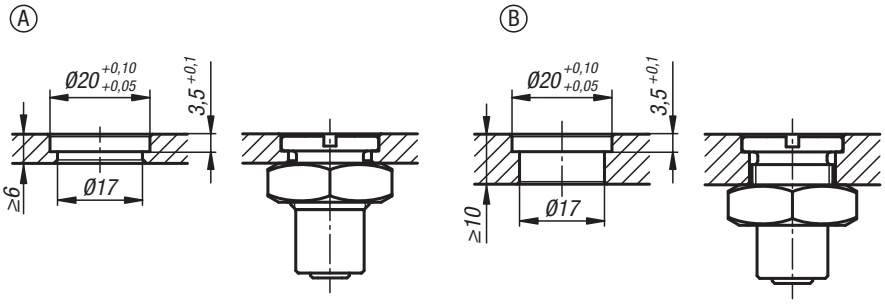
Version:
Housing nickel-plated.
Balls tempered.

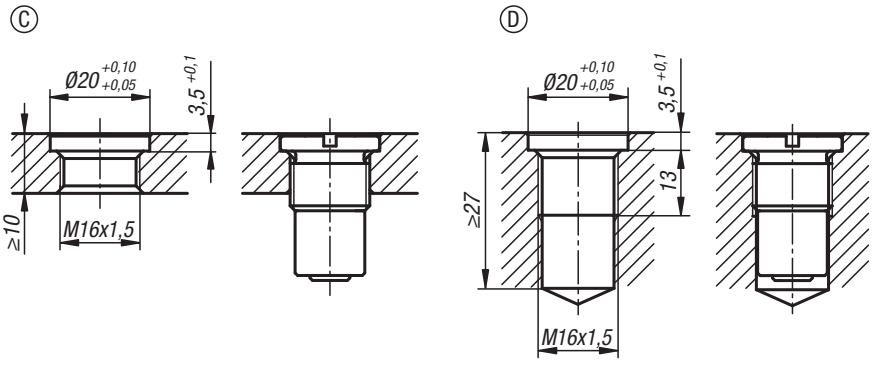
Sample order:
K1066.7

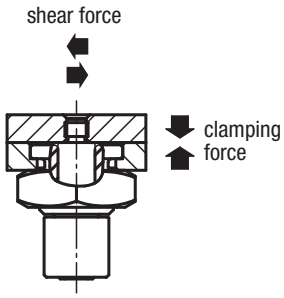
Note:
The 3 balls inside the bush hold the locking pin with the specified retaining force.
Installation dimensions for Form A: min. plate thickness 6 mm.
Installation dimensions for Form B: max. plate thickness 10 mm.
Installation dimensions for Form C: plate thickness > 10 mm.
Installation dimensions for Form D: blind hole.

On request:
Suitable nuts.

Accessories:
Locking pin K1067.







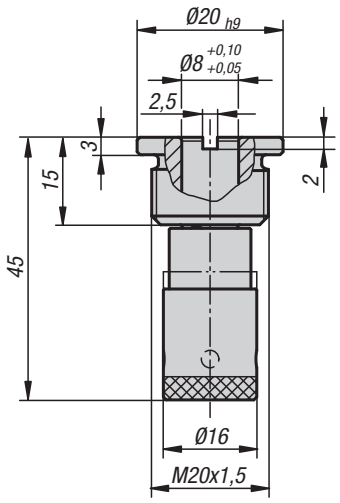
KIPP Ball lock bushes

Order No.	Clamping force F1 N	Shearing force kN	Temp. resistance up to
K1066.7	7	1,8	180 °C
K1066.15	15	1,8	180 °C

K1066

Ball lock bushes

with twist lock



Material:
Housing and locking elements steel.
Balls and springs stainless steel.

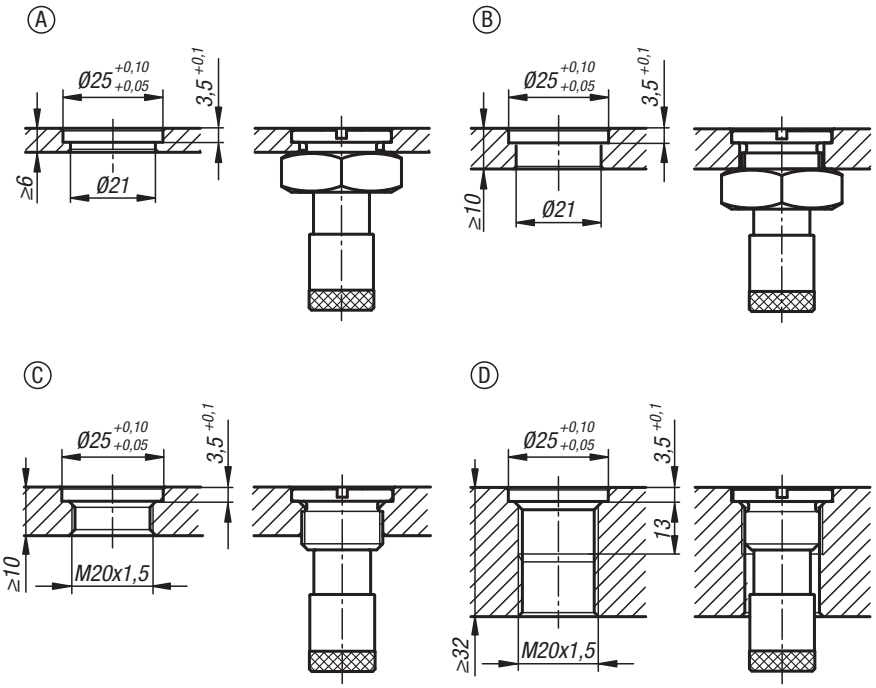
Version:
Housing and locking element nickel-plated.
Balls tempered.

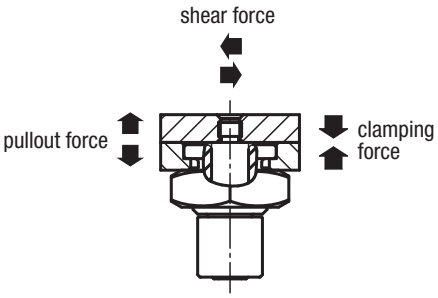
Sample order:
K1066.71

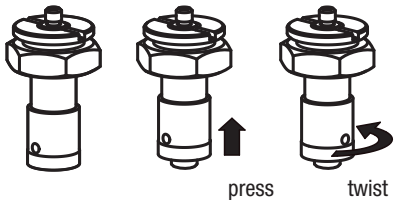
Note:
The 3 balls inside the bush hold the locking pin with the specified retaining force.
The element is secured or released by twisting the bottom part of the bush.
Installation dimensions for Form A: min. plate thickness 6 mm.
Installation dimensions for Form B: max. plate thickness 10 mm.
Installation dimensions for Form C: plate thickness > 10 mm.
Installation dimensions for Form D: blind hole.

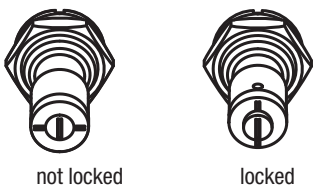
On request:
Suitable nuts.

Accessories:
Locking pin K1067.









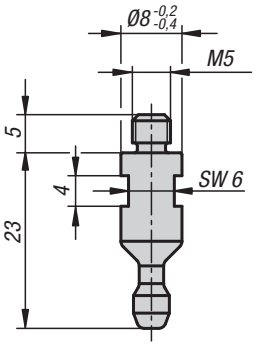
KIPP Ball lock bushes with twist lock

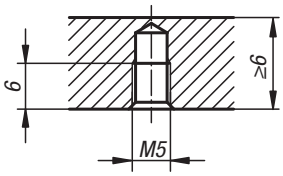
Order No.	Clamping force N	Shearing force kN	pullout force F kN	Temp. resistance up to
K1066.71	7	1,8	1,8	180 °C
K1066.151	15	1,8	1,8	180 °C

K1067

Locking pin

for ball lock bushes



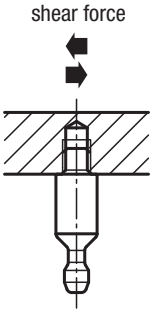


Material:
Steel.

Version:
Bright.

Sample order:
K1067.8

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

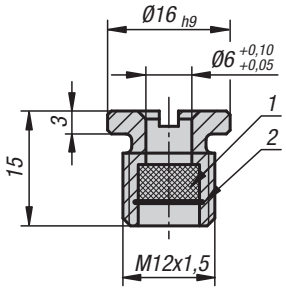


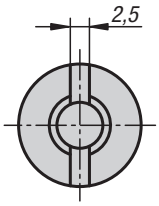
KIPP Locking pin for ball lock bushes

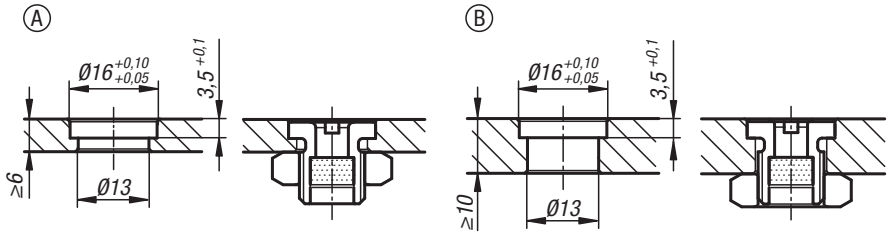
Order No.	Shearing force kN	Temp. resistance up to
K1067.8	1,8	180 °C

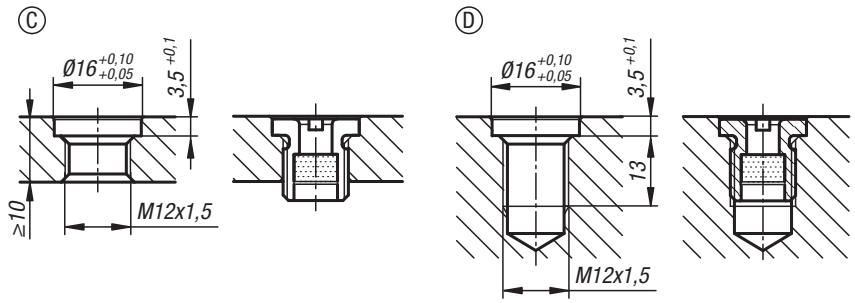
K1068

Magnetic bush









Material:
Housing stainless steel.
Magnet neodymium.

Version:
Housing bright.

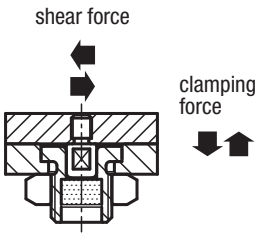
Sample order:
K1068.6

Note:
A magnet in the bush attracts the pin (K1069) and holds it with the specified retaining force.
Repeat accuracy ± 0.25. The repeat accuracy can be increased with the aid of additional locating pins.
Installation dimensions for Form A:
min. plate thickness 6 mm.
Installation dimensions for Form B:
max. plate thickness 10 mm.
Installation dimensions for Form C:
plate thickness > 10 mm.
Installation dimensions for Form D:
blind hole.

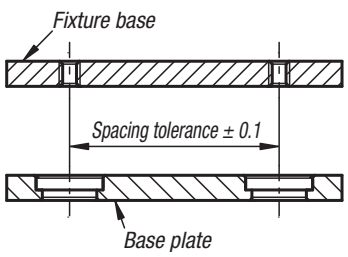
On request:
Suitable nuts.

Accessories:
Pin K1069

Drawing reference:
1) magnet
2) circlip



Recommended installation tolerances:



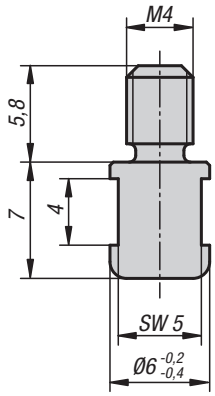
KIPP Magnetic bushes

Order No.	Clamping force N	Shearing force kN	Temp. resistance up to
K1068.6	7	0,8	80 °C

K1069

Pin

for magnetic bush

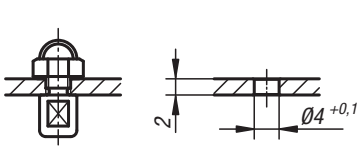


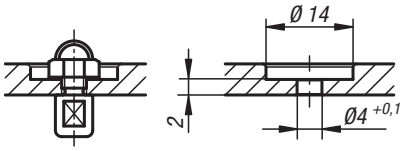
Material:
Steel.

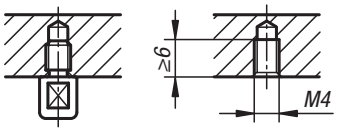
Version:
Bright.

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.





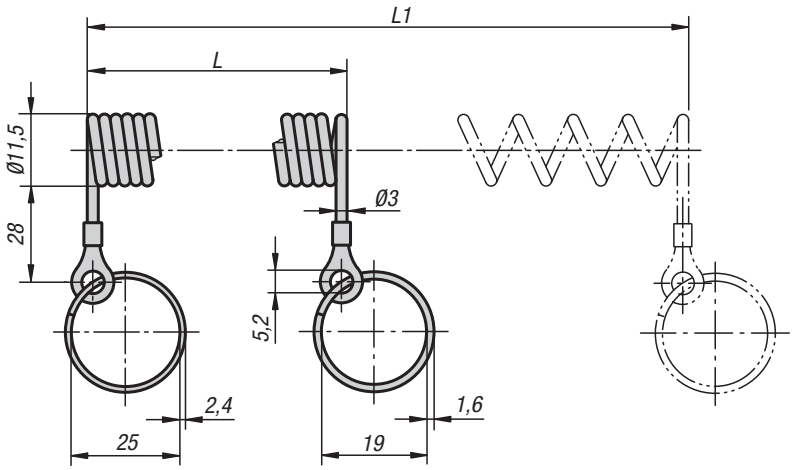


KIPP Pin for magnetic bush

Order No.	Shear force kN
K1069.6	0,9

K0367

Safety spiral cables



Material:
Spiral cable PUR.
Eye copper or stainless steel.
Key ring steel or stainless steel.

Version:
Spiral cable black.
Eye, brass galvanized - stainless steel bright.
Key ring, steel chromed - stainless steel bright.

Sample order:
K0367.10200

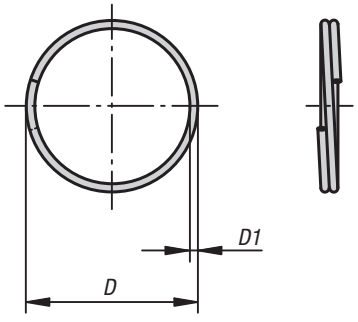
Note:
Elastic spiral cable to secure equipment parts. Very good reset force, robust and wear-resistant.

KIPP Safety spiral cable

Order No.	Component material	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

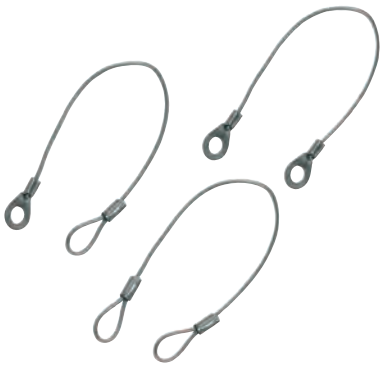
Note:
Suitable for retaining cable with loop K0367, ball lock pins K0363, K0364, K0641, K0366, K0642, K0790, K0791 locking pins K0365 and indexing plungers K0342, K0635, K0636.

KIPP Key rings

Order No.	D	D1
K0367.15	15	1
K0367.19	19	1
K0367.23	23	1,2
K0367.28	28	1,7

K0367

Retaining cables



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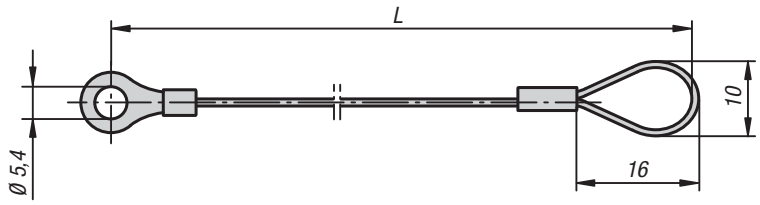

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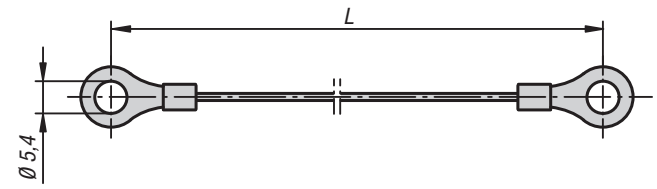

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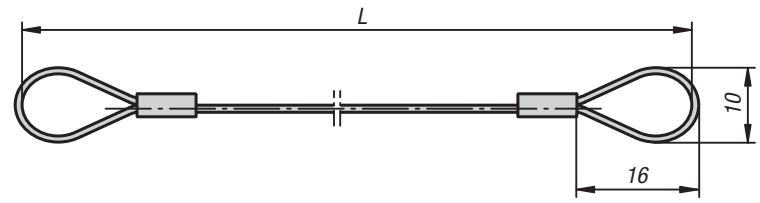
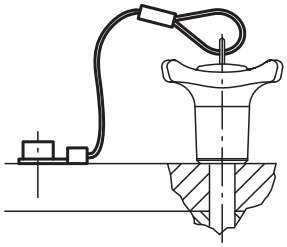


Material:
Cable stainless steel.
Clamp and crimp terminal aluminium.

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.



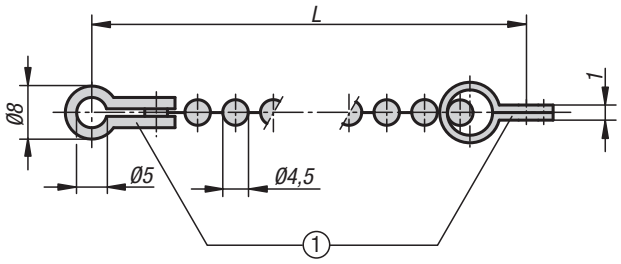
KIPP Retaining cables

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

K1125

Ball chains

Ⓐ



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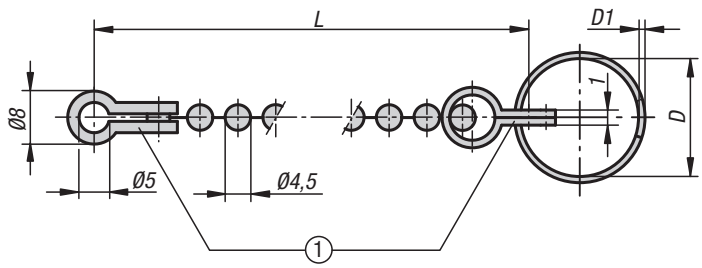


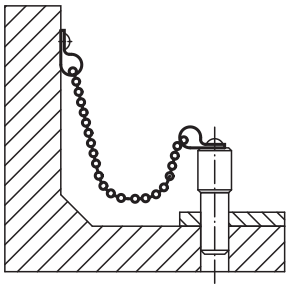
Material:
A: Chain stainless steel.
B: Chain stainless steel, key ring stainless steel.

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

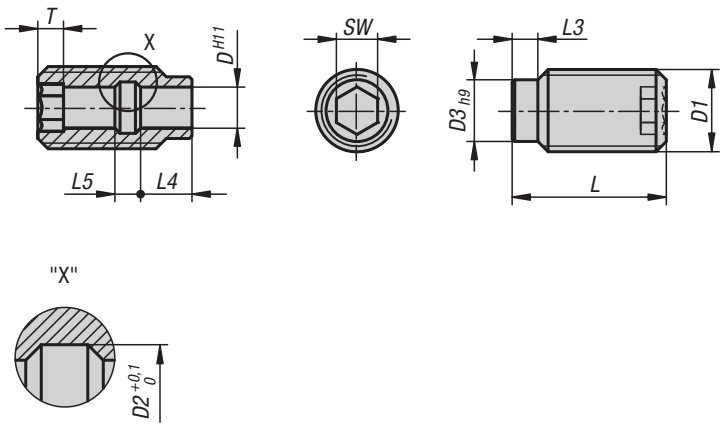
Order No.	Form	Version	Main material	L
K1125.01X	A	single	stainless steel	160/320/500/1000

KIPP Form B, ball chain with keyring

Order No.	Form	Version	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

K0724

Bushing for ball lock pins



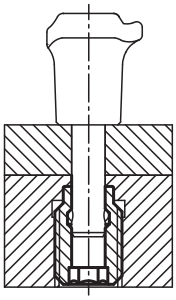
Material:
Stainless steel 1.4305.

Version:
Steel parts bright.

Sample order:
K0724.11224

Note:
Bushing for ball lock pins are ideal for the easy and quick positioning of ball lock pins and locking pins.

Advantages:
- centred by the centring collar.
- easy and reliable screwing in.
- can be screwed into various materials.
- usable both sides



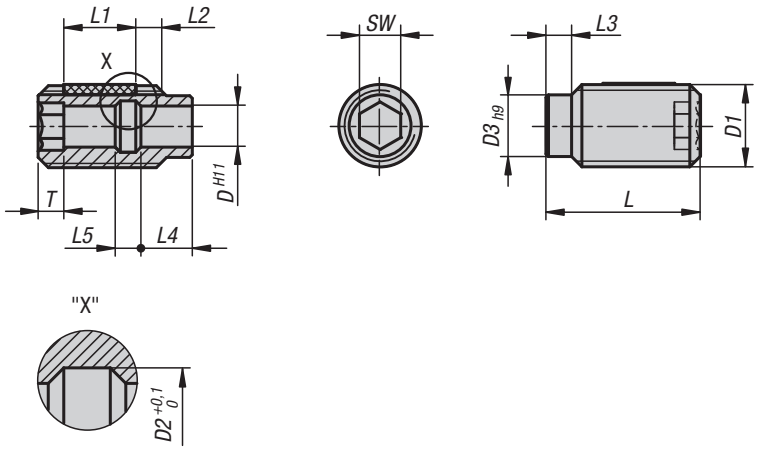
KIPP Bushing for ball lock pins

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

K0724

Bushing for ball lock pins

with LONG-LOK thread lock



Material:
Stainless steel 1.4305

LONG-LOK thread lock nylon.

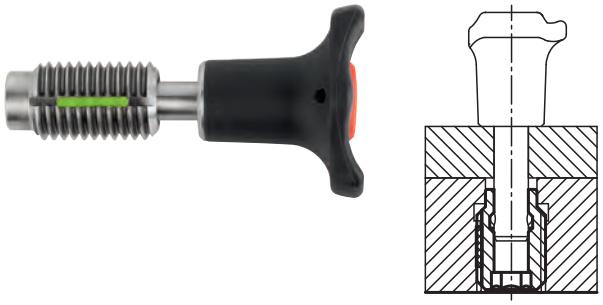
Version:
Steel parts bright.

Sample order:
K0724.112241

Note:
Bushing for ball lock pins are ideal for the easy and quick positioning of ball lock pins and locking pins.

Advantages:
- centred by the centring collar.
- easy and reliable screwing in.
- can be screwed into various materials.
- usable both sides
- the LONG-LOK thread lock allows the depth to be exactly matched to existing components, no locknut is required.

Drawing reference:
L2 = approx. 2x thread pitch



KIPP Bushing for ball locking pins, with LONG-LOK thread lock

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