CESEHSA soluciones

SPRING PLUNGERS

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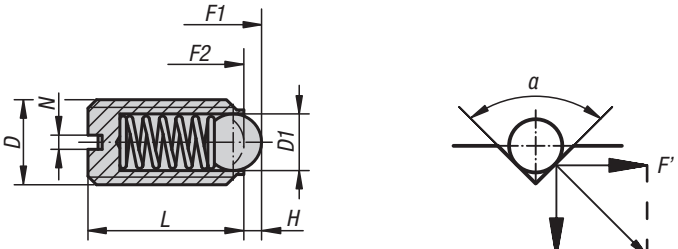


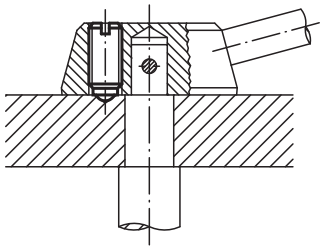
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

Material:
Body in steel quality class 5.8.
Ball steel.
Spring in spring steel class D.

Type:
Black oxide finish.
Ball hardened.

Part Number Example:
K0309.AD

Application Diagram



KIPP Spring Plungers, ball style, slotted, steel, standard end pressure, inch

Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.AD	6-32	1,5	7	0,4	0,4	1,5	3
K0309.AE	8-32	2,5	9	0,8	0,6	4	10
K0309.AG	8-36	2,5	9	0,8	0,6	4	10
K0309.AJ	1/4-28	3,5	14	1	1	9	13
K0309.A1	10-32	3	12	0,9	0,8	6	11
K0309.A6	5/8-11	10	24	3,5	2,5	65	125
K0309.A4	3/8-16	6	19	2	1,6	20	35
K0309.A3	5/16-18	5	16	1,5	1,2	15	30
K0309.A5	1/2-13	8	22	2,5	2	30	55
K0309.A2	1/4-20	3.5	14	1	1	9	13

Spring Plungers

ball style, slotted, steel

KIPP Spring Plungers, ball style, slotted, steel, heavy end pressure, inch

Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.2A1	10-32	3	12	0,9	0,8	19	30
K0309.2AJ	1/4-28	3,5	14	1	1	28	40
K0309.2A2	1/4-20	3,5	14	1	1	28	40
K0309.2A3	5/16-18	5	16	1,5	1,2	47	73
K0309.2A4	3/8-16	6	19	2	1,6	66	100
K0309.2A5	1/2-13	8	22	2,5	2	66	120
K0309.2A6	5/8-11	10	24	3,5	2,5	90	180

KIPP Spring Plungers, ball style, slotted, steel, standard end pressure, metric

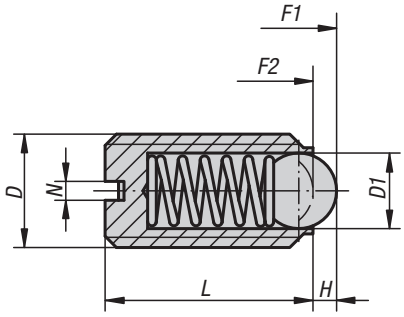
Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.03	M3	1,5	7	0,4	0,4	1,5	3
K0309.04	M4	2,5	9	0,8	0,6	4	10
K0309.05	M5	3	12	0,9	0,8	6	11
K0309.06	M6	3,5	14	1	1	9	13
K0309.08	M8	5	16	1,5	1,2	15	30
K0309.10	M10	6	19	2	1,6	20	35
K0309.12	M12	8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

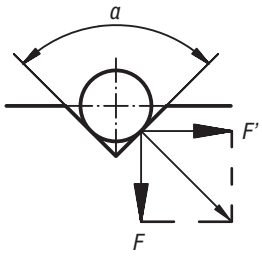
KIPP Spring Plungers, ball style, slotted, steel, heavy end pressure, metric

Item 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

Spring Plungers

ceramic ball, slotted, stainless steel





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

Material:
Body stainless steel 1.4305.
Ceramic ball Si_3N_4.
Spring stainless steel 1.4310.

Type:
Natural finish.

Part Number Example:
K0609.05

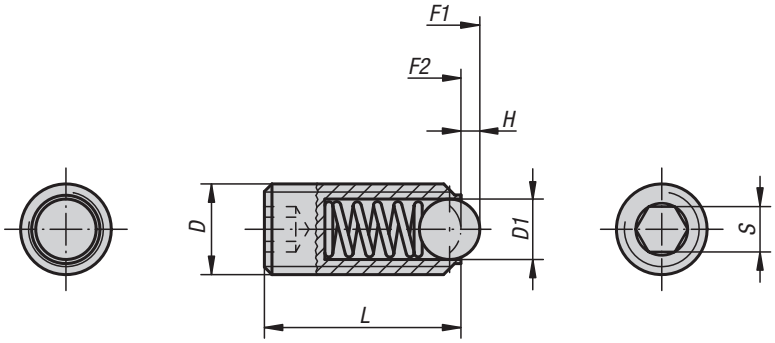
Note:
The combination of excellent material properties is a special feature of silicon nitride (Si_3N_4). These include, for example, high strength and stability, excellent wear and chemical resistance.

KIPP Spring Plungers ceramic ball, slotted, stainless steel, metric

Item 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

Spring Plungers

with hexagon socket and ceramic ball, stainless steel

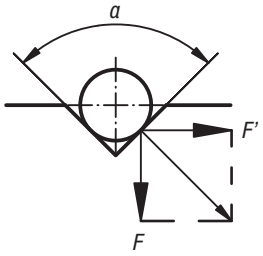


Material:
Body stainless steel 1.4305.
Ceramic ball Si_3N_4.
Spring stainless steel 1.4310.

Type:
Natural finish.

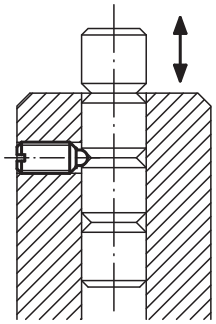
Part Number Example:
K0610.05

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



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

Application Diagram

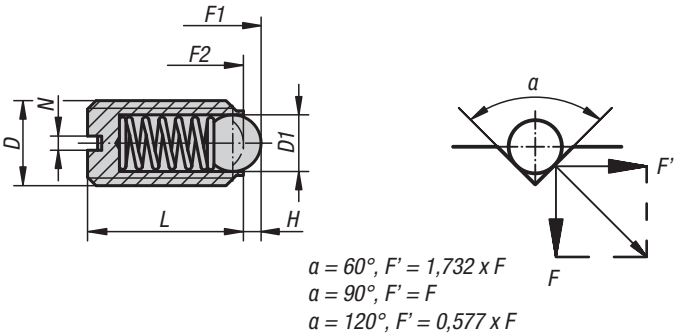


KIPP Spring Plungers with hexagon socket and ceramic ball, stainless steel, metric

Item 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

Spring Plungers

ball style, slotted, stainless steel



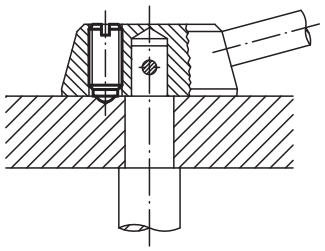
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

Material:
Body in stainless steel 1.4305;
ball in stainless steel 1.4034;
spring in stainless steel 1.4310

Type:
Natural finish. Ball hardened.

Part Number Example:
K0310.AD

Application Diagram



KIPP Spring Plungers, ball style, slotted, stainless steel, standard end pressure, inch

Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.AD	6-32	1,5	7	0,4	0,4	1,5	3
K0310.AG	8-36	2,5	9	0,8	0,6	4	10
K0310.AE	8-32	2,5	9	0,8	0,6	4	10
K0310.A1	10-32	3	12	0,9	0,8	6	11
K0310.AJ	1/4-28	3,5	14	1	1	9	13
K0310.A2	1/4-20	3,5	14	1	1	9	13
K0310.A3	5/16-18	5	16	1,5	1,2	15	30
K0310.A4	3/8-16	6	19	2	1,6	20	35
K0310.A5	1/2-13	8	22	2,5	2	30	55
K0310.A6	5/8-11	10	24	3,5	2,5	65	125

Spring Plungers

ball style, slotted, stainless steel

KIPP Spring Plungers, ball style, slotted, stainless steel, heavy end pressure, inch

Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.2A1	10-32	3	12	0,9	0,8	19	30
K0310.2AJ	1/4-28	3,5	14	1	1	28	40
K0310.2A2	1/4-20	3,5	14	1	1	28	40
K0310.2A3	5/16-18	5	16	1,5	1,2	47	73
K0310.2A4	3/8-16	6	19	2	1,6	66	100
K0310.2A5	1/2-13	8	22	2,5	2	66	120
K0310.2A6	5/8-11	10	24	3,5	2,5	90	180

KIPP Spring Plungers, ball style, slotted, stainless steel, standard end pressure, metric

Item 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

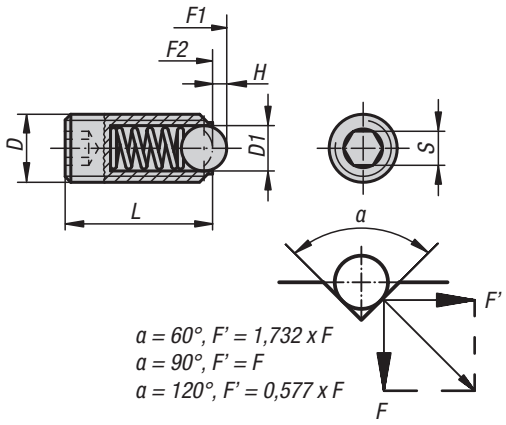
KIPP Spring Plungers, ball style, slotted, stainless steel, heavy end pressure, metric

Item 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

Spring Plungers

ball style, hexagon socket, steel

INCH Parts METRIC Parts

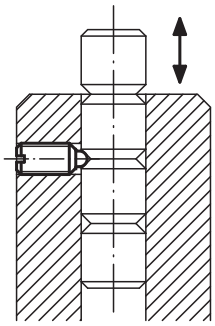


Material:
Body steel quality class 5.8.
Ball steel.
Spring in spring steel class D.

Type:
Black oxide finish.
Ball hardened.

Part Number Example:
K0315.AJ

Application Diagram



KIPP Spring Plungers, ball style, hexagon socket, steel, standard end pressure, inch

Item No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.AJ	1/4-28	3,5	15	1	1/8	9	13
K0315.A2	1/4-20	3,5	15	1	1/8	9	13
K0315.A3	5/16-18	5	18	1,5	5/32	15	30
K0315.A4	3/8-16	6	23	2	3/16	20	35
K0315.A5	1/2-13	8	26	2,5	7/32	30	55
K0315.A6	5/8-11	10	33	3,5	5/16	65	125

Spring Plungers

ball style, hexagon socket, steel

KIPP Spring Plungers, ball style, hexagon socket, steel, heavy end pressure, inch

Item No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.2AJ	1/4-28	3,5	15	1	1/8	28	40
K0315.2A2	1/4-20	3,5	15	1	1/8	28	40
K0315.2A3	5/16-18	5	18	1,5	5/32	47	73
K0315.2A4	3/8-16	6	23	2	3/16	66	100
K0315.2A5	1/2-13	8	26	2,5	7/32	66	120
K0315.2A6	5/8-11	10	33	3,5	5/16	90	180

KIPP Spring Plungers, ball style, hexagon socket, steel, standard end pressure, metric

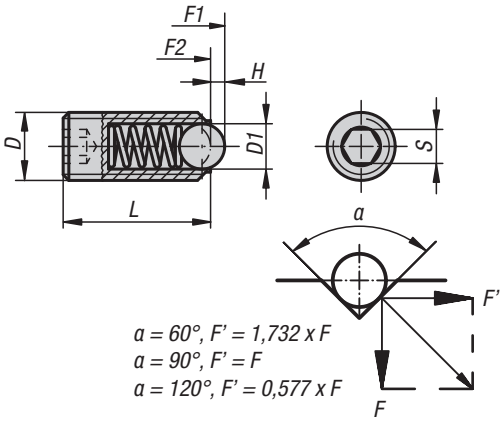
Item No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.03	M3	1,5	9	0,4	1,5	1,5	3
K0315.04	M4	2,5	10	0,8	2	4	10
K0315.05	M5	3	14	0,9	2,5	6	11
K0315.06	M6	3,5	15	1	3	9	13
K0315.08	M8	5	18	1,5	4	15	30
K0315.10	M10	6	23	2	5	20	35
K0315.12	M12	8	26	2,5	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, ball style, hexagon socket, steel, heavy end pressure, metric

Item 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

Spring Plungers

ball style, hexagon socket, stainless steel

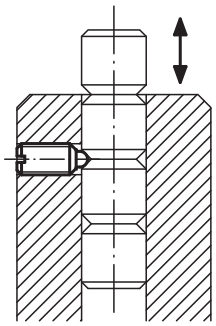


Material:
Body in stainless steel 1.4305;
ball in stainless steel 1.4034;
spring in stainless steel 1.4310

Type:
Natural finish. Ball hardened.

Part Number Example:
K0316.210

Application Diagram



KIPP Spring Plungers, ball style, hexagon socket, stainless steel, standard end pressure, inch

Item No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.AJ	1/4-28	3,5	15	1	1/8	9	13
K0316.A2	1/4-20	3,5	15	1	1/8	9	13
K0316.A3	5/16-18	5	18	1,5	5/32	15	30
K0316.A4	3/8-16	6	23	2	3/16	20	35
K0316.A5	1/2-13	8	26	2,5	7/32	30	55
K0316.A6	5/8-11	10	33	3,5	5/16	65	125

Spring Plungers

ball style, hexagon socket, stainless steel

KIPP Spring Plungers, ball style, hexagon socket, stainless steel, heavy end pressure, inch

Item No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.2AJ	1/4-28	3,5	15	1	1/8	28	40
K0316.2A2	1/4-20	3,5	15	1	1/8	28	40
K0316.2A3	5/16-18	5	18	1,5	5/32	47	73
K0316.2A4	3/8-16	6	23	2	3/16	66	100
K0316.2A5	1/2-13	8	26	2,5	7/32	66	120
K0316.2A6	5/8-11	10	33	3,5	5/16	90	180

KIPP Spring Plungers, ball style, hexagon socket, stainless steel, standard end pressure, metric

Item 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

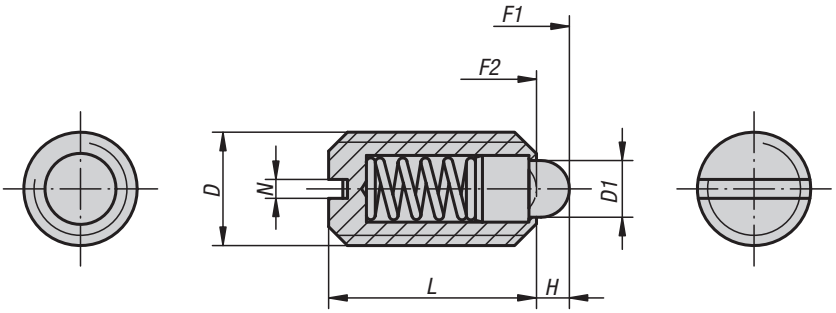
KIPP Spring Plungers, ball style, hexagon socket, stainless steel, heavy end pressure, metric

Item 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

Spring Plungers

pin style, slotted, steel

INCH Parts METRIC Parts



Material:
Body in steel quality class 5.8.
Pressure pin in steel.
Spring in spring steel class D.

Type:
Black oxide finish.
Pressure pin hardened.

Part Number Example:
K0313.AG

KIPP Spring Plungers, pin style, slotted, steel, standard end pressure, inch

Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.AG	8-36	1,8	9	1,5	0,6	6	20
K0313.AE	8-32	1,8	9	1,5	0,6	6	20
K0313.A1	10-32	2,4	12	2	0,8	6	20
K0313.AJ	1/4-28	2,7	14	2	1	7	20
K0313.A2	1/4-20	2,7	14	2	1	7	20
K0313.A3	5/16-18	4	16	2	1,2	15	30
K0313.A4	3/8-16	4,5	19	2,5	1,6	20	35
K0313.A5	1/2-13	6	22	3,5	2	30	55
K0313.A6	5/8-11	8,5	24	4,5	2,5	45	100

Spring Plungers

pin style, slotted, steel

KIPP Spring Plungers, pin style, slotted, steel, light end pressure, inch

Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.1AG	8-36	1,8	9	1,5	0,6	2	7
K0313.1AE	8-32	1,8	9	1,5	0,6	3	10
K0313.1A1	10-32	2,4	12	2	0,8	3	10
K0313.1AJ	1/4-28	2,7	14	2	1	3	9
K0313.1A2	1/4-20	2,7	14	2	1	4	10
K0313.1A3	5/16-18	4	16	2	1,2	7	15
K0313.1A4	3/8-16	4,5	19	2,5	1,6	9	16
K0313.1A5	1/2-13	6	22	3,5	2	14	26
K0313.1A6	5/8-11	8,5	24	4,5	2,5	22	50

KIPP Spring Plungers, pin style, slotted, steel, standard end pressure, metric

Item 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

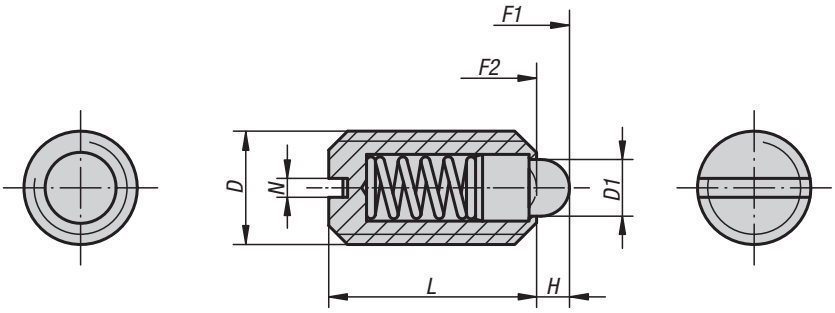
KIPP Spring Plungers, pin style, slotted, steel, light end pressure, metric

Item 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

Spring Plungers

pin style, slotted, stainless steel

INCH Parts METRIC Parts



Material:
Body in stainless steel 1.4305;
pressure pin in stainless steel 1.4034;
spring in stainless steel 1.4310

Type:
Body natural finish,
pressure pin hardened

Part Number Example:
K0314.AG

KIPP Spring Plungers, pin style, slotted, stainless steel, standard end pressure, inch

Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.AG	8-36	1,8	9	1,5	0,6	6	20
K0314.AE	8-32	1,8	9	1,5	0,6	6	20
K0314.A1	10-32	2,4	12	2	0,8	6	20
K0314.AJ	1/4-28	2,7	14	2	1	7	20
K0314.A2	1/4-20	2,7	14	2	1	7	20
K0314.A3	5/16-18	4	16	2	1,2	15	30
K0314.A4	3/8-16	4,5	19	2,5	1,6	20	35
K0314.A5	1/2-13	6	22	3,5	2	30	55
K0314.A6	5/8-11	8,5	24	4,5	2,5	45	100

Spring Plungers

pin style, slotted, stainless steel

KIPP Spring Plungers, pin style, slotted, stainless steel, light end pressure, inch

Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.1AG	8-36	1,8	9	1,5	0,6	2	7
K0314.1AE	8-32	1,8	9	1,5	0,6	3	10
K0314.1A1	10-32	2,4	12	2	0,8	3	10
K0314.1AJ	1/4-28	2,7	14	2	1	3	9
K0314.1A2	1/4-20	2,7	14	2	1	4	10
K0314.1A3	5/16-18	4	16	2	1,2	7	15
K0314.1A4	3/8-16	4,5	19	2,5	1,6	9	16
K0314.1A5	1/2-13	6	22	3,5	2	14	26
K0314.1A6	5/8-11	8,5	24	4,5	2,5	22	50

KIPP Spring Plungers, pin style, slotted, stainless steel, standard end pressure, metric

Item 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

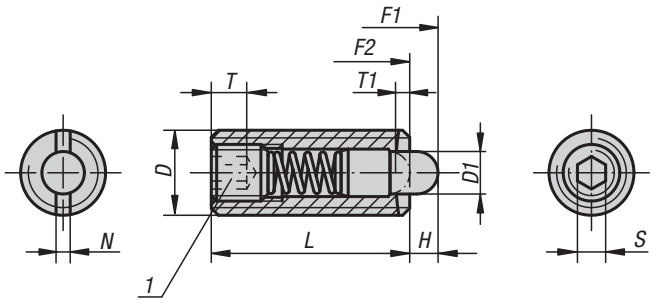
KIPP Spring Plungers, pin style, slotted, stainless steel, light end pressure, metric

Item 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

Spring Plungers

pin style, hexagon socket, steel pin

INCH Parts

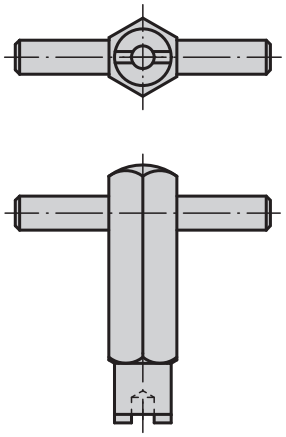


Material:
Body in steel quality class 5.8.
Pressure pin in steel.
Spring in spring steel class D.

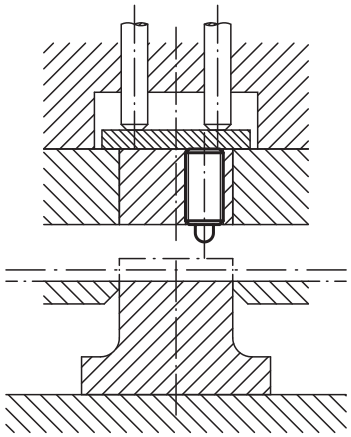
Type:
Black oxide finish.
Pressure pin hardened.

Part Number Example:
K0317.AD

Drawing reference:
1) grub screw glued in



Application Diagram



KIPP Spring Plungers, pin style, hexagon socket, steel pin, standard end pressure, inch

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0317.AD	6-32	1	10	1,5	1,5	1	0,4	0,035	0,5	3	K0317.903
K0317.AG	8-36	1,5	15	1,5	2	0,6	0,6	0,050	5	16	K0317.904
K0317.AE	8-32	1,5	15	1,5	2	0,6	0,6	0,050	5	16	K0317.904
K0317.A1	10-32	2,4	18	2,3	2	0,8	0,8	1/16	6	20	K0317.905
K0317.AJ	1/4-28	2,7	20	2,5	2,5	1	1	5/64	7	20	K0317.906
K0317.A2	1/4-20	2,7	20	2,5	2,5	1	1	5/64	7	20	K0317.906
K0317.A3	5/16-18	3,5	22	3	3	1,4	1,2	3/32	9	35	K0317.908
K0317.A4	3/8-16	4	22	3	3,5	1,4	1,6	1/8	9	35	K0317.910
K0317.A5	1/2-13	6	28	4	5	2	2	5/32	12	55	K0317.912
K0317.A6	5/8-11	7,5	32	5	6	2,5	2,5	3/16	45	100	K0317.916

Spring Plungers

pin style, hexagon socket, steel pin

KIPP Spring Plungers, pin style, hexagon socket, steel pin, light end pressure, inch

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0317.1AG	8-36	1,5	15	1,5	2	0,6	0,6	0,050	2	7	K0317.904
K0317.1AE	8-32	1,5	15	1,5	2	0,6	0,6	0,050	2	7	K0317.904
K0317.1A1	10-32	2,4	18	2,3	2	0,8	0,8	1/16	3	10	K0317.905
K0317.1AJ	1/4-28	2,7	20	2,5	2,5	1	1	5/64	3	9	K0317.906
K0317.1A2	1/4-20	2,7	20	2,5	2,5	1	1	5/64	3	9	K0317.906
K0317.1A3	5/16-18	3,5	22	3	3	1,4	1,2	3/32	4	16	K0317.908
K0317.1A4	3/8-16	4	22	3	3,5	1,4	1,6	1/8	4	16	K0317.910
K0317.1A5	1/2-13	6	28	4	5	2	2	5/32	5	27	K0317.912
K0317.1A6	5/8-11	7,5	32	5	6	2,5	2,5	3/16	20	45	K0317.916

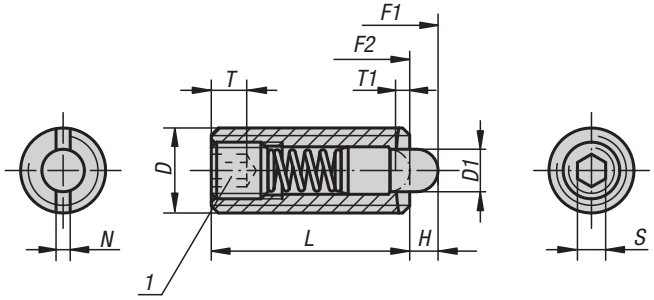
KIPP Spring Plungers, pin style, hexagon socket, steel pin, heavy end pressure, inch

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0317.2A1	10-32	2,4	18	2,3	2	0,8	0,8	1/16	11	29	K0317.905
K0317.2AJ	1/4-28	2,7	20	2,5	2,5	1	1	5/64	14	37	K0317.906
K0317.2A2	1/4-20	2,7	20	2,5	2,5	1	1	5/64	14	37	K0317.906
K0317.2A3	5/16-18	3,5	22	3	3	1,4	1,2	3/32	22	65	K0317.908
K0317.2A4	3/8-16	4	22	3	3,5	1,4	1,6	1/8	19	70	K0317.910
K0317.2A5	1/2-13	6	28	4	5	2	2	5/32	25	85	K0317.912
K0317.2A6	5/8-11	7,5	32	5	6	2,5	2,5	3/16	60	150	K0317.916

Spring Plungers

pin style, hexagon socket, steel pin

METRIC Parts

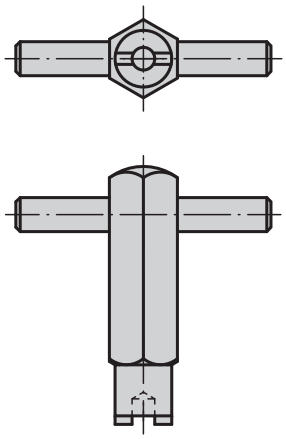


Material:
Body in steel quality class 5.8.
Pressure pin in steel.
Spring in spring steel class D.

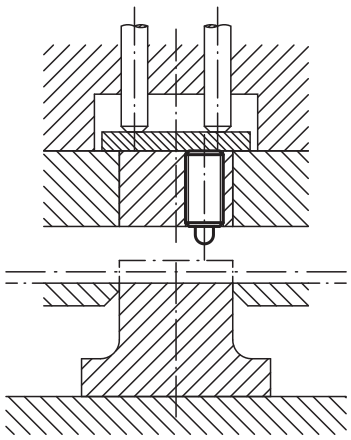
Type:
Black oxide finish.
Pressure pin hardened.

Part Number Example:
K0317.03

Drawing reference:
1) grub screw glued in



Application Diagram



KIPP Spring Plungers, pin style, hexagon socket, steel pin, standard end pressure, metric

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item 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	-

Spring Plungers

pin style, hexagon socket, steel pin

KIPP Spring Plungers, pin style, hexagon socket, steel pin, light end pressure, metric

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item 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

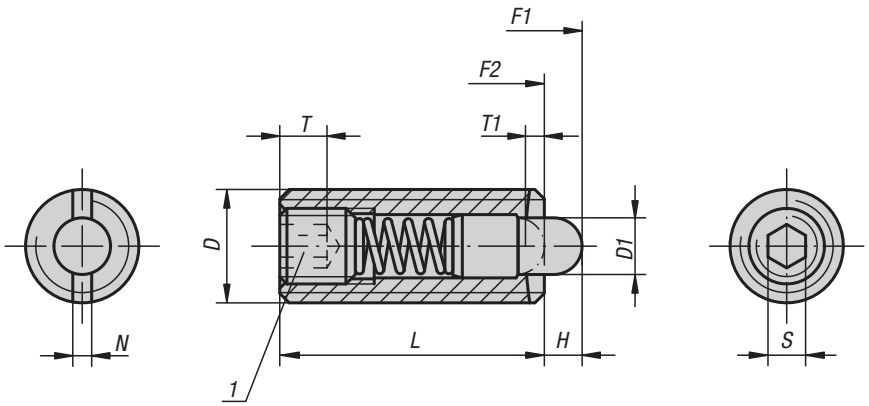
KIPP Spring Plungers, pin style, hexagon socket, steel pin, heavy end pressure, metric

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item 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	-

Spring Plungers

pin style, hexagon socket, plastic pin

INCH Parts | METRIC Parts

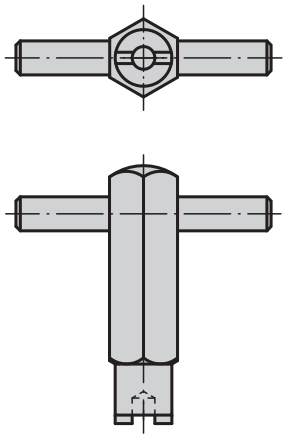


Material:
Body steel quality class 5.8.
Pressure pin POM.
Spring spring steel class D.

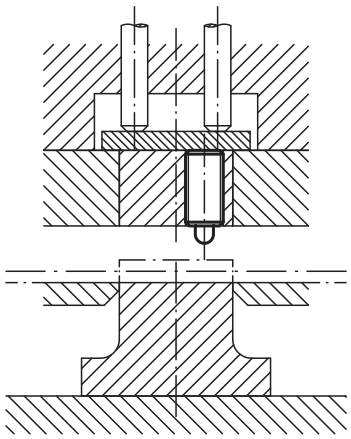
Type:
Black oxide finish.

Part Number Example:
K0318.AD

Drawing reference:
1) grub screw glued in



Application Diagram



KIPP Spring Plungers, pin style, hexagon socket, plastic pin, standard end pressure, inch

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0318.AD	6-32	1	10	1,5	1,5	1	0,4	0,035	0,5	3	K0317.903
K0318.AG	8-36	1,5	15	1,5	2	0,6	0,6	0,050	5	16	K0317.904
K0318.AE	8-32	1,5	15	1,5	2	0,6	0,6	0,050	5	16	K0317.904
K0318.A1	10-32	2,4	18	2,3	2	0,8	0,8	1/16	6	20	K0317.905
K0318.AJ	1/4-28	2,7	20	2,5	2,5	1	1	5/64	7	20	K0317.906
K0318.A2	1/4-20	2,7	20	2,5	2,5	1	1	5/64	7	20	K0317.906
K0318.A3	5/16-18	3,5	22	3	3	1,4	1,2	3/32	9	35	K0317.908
K0318.A4	3/8-16	4	22	3	3,5	1,4	1,6	1/8	9	35	K0317.910
K0318.A5	1/2-13	6	28	4	5	2	2	5/32	12	55	K0317.912
K0318.A6	5/8-11	7,5	32	5	6	2,5	2,5	3/16	45	100	K0317.916

Spring Plungers

pin style, hexagon socket, plastic pin

KIPP Spring Plungers, pin style, hexagon socket, plastic pin, light end pressure, inch

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0318.1AG	8-36	1,5	15	1,5	2	0,6	0,6	0,050	2	7	K0317.904
K0318.1AE	8-32	1,5	15	1,5	2	0,6	0,6	0,050	2	7	K0317.904
K0318.1A1	10-32	2,4	18	2,3	2	0,8	0,8	1/16	3	10	K0317.905
K0318.1AJ	1/4-28	2,7	20	2,5	2,5	1	1	5/64	3	9	K0317.906
K0318.1A2	1/4-20	2,7	20	2,5	2,5	1	1	5/64	3	9	K0317.906
K0318.1A3	5/16-18	3,5	22	3	3	1,4	1,2	3/32	4	16	K0317.908
K0318.1A4	3/8-16	4	22	3	3,5	1,4	1,6	1/8	4	16	K0317.910
K0318.1A5	1/2-13	6	28	4	5	2	2	5/32	5	27	K0317.912
K0318.1A6	5/8-11	7,5	32	5	6	2,5	2,5	3/16	20	45	K0317.916

KIPP Spring Plungers, pin style, hexagon socket, plastic pin, standard end pressure, metric

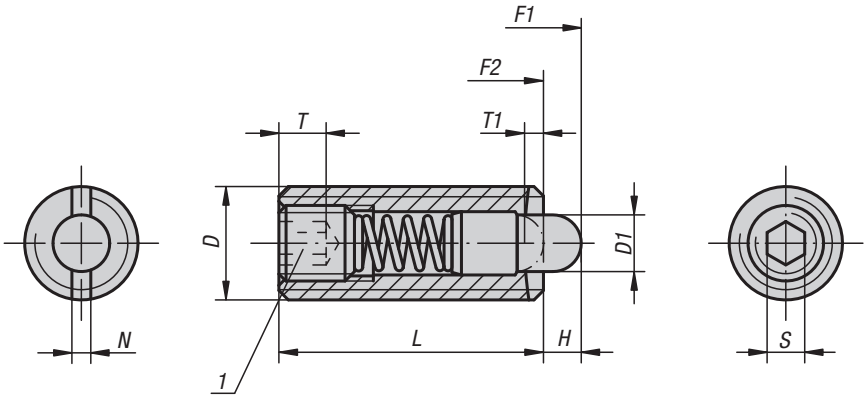
Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0318.03	M3	1	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0318.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0318.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	6	20	K0317.905
K0318.06	M6	2,7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

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item 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

Spring Plungers

pin style, hexagon socket, stainless steel body and pin

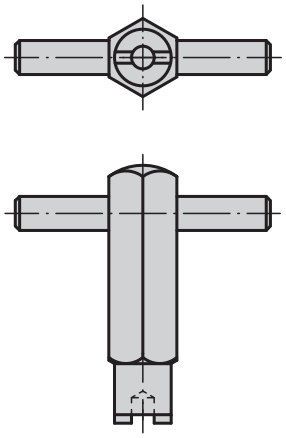


Material:
Body in stainless steel 1.4305;
pressure pin in stainless steel 1.4034;
spring in stainless steel 1.4310

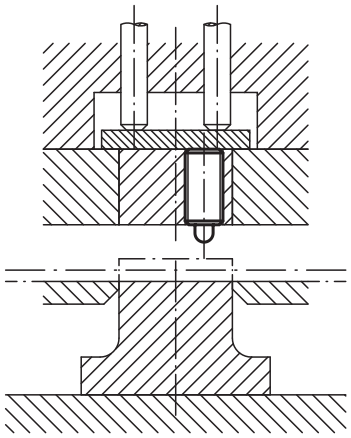
Type:
Body natural finish,
pressure pin hardened

Part Number Example:
K0319.AG

Drawing reference:
1) grub screw glued in



Application Diagram



KIPP Spring Plungers, pin style, hexagon socket, stainless steel body and pin, standard end pressure, inch

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0319.AG	8-36	1,5	15	1,5	2	0,6	0,6	0,050	5	16	K0317.904
K0319.AE	8-32	1,5	15	1,5	2	0,6	0,6	0,050	5	16	K0317.904
K0319.A1	10-32	2,4	18	2,3	2	0,8	0,8	1/16	5	17	K0317.905
K0319.AJ	1/4-28	2,7	20	2,5	2,5	1	1	5/64	6	17	K0317.906
K0319.A2	1/4-20	2,7	20	2,5	2,5	1	1	5/64	6	17	K0317.906
K0319.A3	5/16-18	3,5	22	3	3	1,4	1,2	3/32	7	29	K0317.908
K0319.A4	3/8-16	4	22	3	3,5	1,4	1,6	1/8	8	31	K0317.910
K0319.A5	1/2-13	6	28	4	5	2	2	5/32	10	47	K0317.912
K0319.A6	5/8-11	7,5	32	5	6	2,5	2,5	3/16	45	100	K0317.916

Spring Plungers

pin style, hexagon socket, stainless steel body and pin

KIPP Spring Plungers, pin style, hexagon socket, stainless steel body and pin, standard end pressure, metric

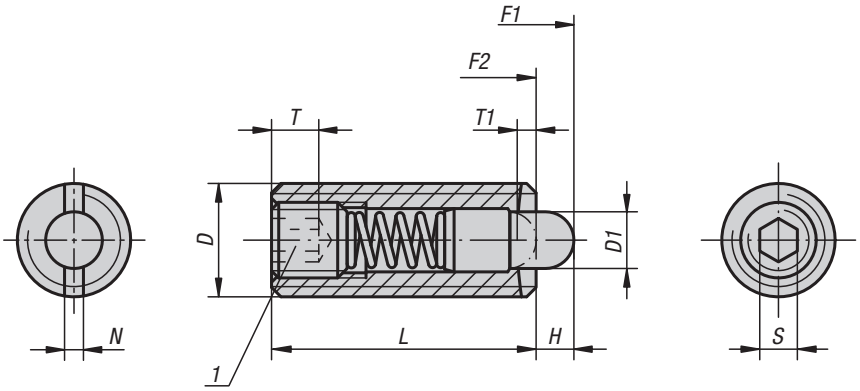
Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0319.03	M3	1	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0319.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0319.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	5	17	K0317.905
K0319.06	M6	2,7	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, pin style, hexagon socket, stainless steel body and pin, heavy end pressure, metric

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item 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

Spring Plungers

pin style, hexagon socket, stainless steel body and POM pin

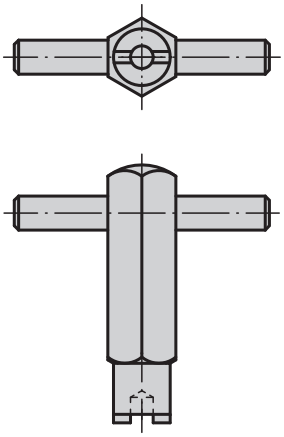


Material:
Body in stainless steel 1.4305;
pressure pin in POM;
spring in stainless steel 1.4310

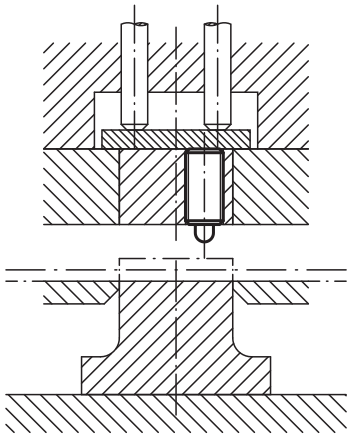
Type:
Natural finish.

Part Number Example:
K0320.A6

Drawing reference:
1) grub screw glued in



Application Diagram



KIPP Spring Plungers, pin style, hexagon socket, stainless steel body, POM pin, standard end pressure, inch

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0320.AG	8-36	1,5	15	1,5	2	0,6	0,6	0,050	5	16	K0317.904
K0320.AE	8-32	1,5	15	1,5	2	0,6	0,6	0,050	5	16	K0317.904
K0320.A1	10-32	2,4	18	2,3	2	0,8	0,8	1/16	5	17	K0317.905
K0320.AJ	1/4-28	2,7	20	2,5	2,5	1	1	5/64	6	17	K0317.906
K0320.A2	1/4-20	2,7	20	2,5	2,5	1	1	5/64	6	17	K0317.906
K0320.A3	5/16-18	3,5	22	3	3	1,4	1,2	3/32	7	29	K0317.908
K0320.A4	3/8-16	4	22	3	3,5	1,4	1,6	1/8	8	31	K0317.910
K0320.A5	1/2-13	6	28	4	5	2	2	5/32	10	47	K0317.912
K0320.A6	5/8-11	7,5	32	5	6	2,5	2,5	3/16	45	100	K0317.916

Spring Plungers

pin style, hexagon socket, stainless steel body and POM pin

KIPP Spring Plungers, pin style, hexagon socket, stainless steel body, POM pin, standard end pressure, metric

Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item 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

Notes:

Spring Plungers with LONG-LOK thread system

INTRODUCING

LONG-LOK, the most advanced locking thread system

LONG-LOK Advantages:

1. Vibration Resistant

The integrated LONG-LOK thread system secures Spring Plungers effectively and economically.

No loosening or falling out after impact or vibrations.

2. Greater Holding Force

As LONG-LOK threads are inserted into a tapped hole, in a clockwise direction, the advanced locking system begins to expand in the opposite direction.

This expansion creates a high degree of resistance or holding force which in turn requires a great deal of torque to loosen.

3. Secure in Every Position

The LONG-LOK system allows a plunger to be secured in any position, within the threaded hole.

4. Save Assembly Time and Cost

The LONG-LOK thread system does not require any additional components. This will improve assembly time, lower cost and reduce your required storage space.

5. For Repeated Use

When using the LONG-LOK system for the first time, it will require a slightly higher tightening torque. After repeated use, the torque value remains nearly constant for approximately 20 uses.

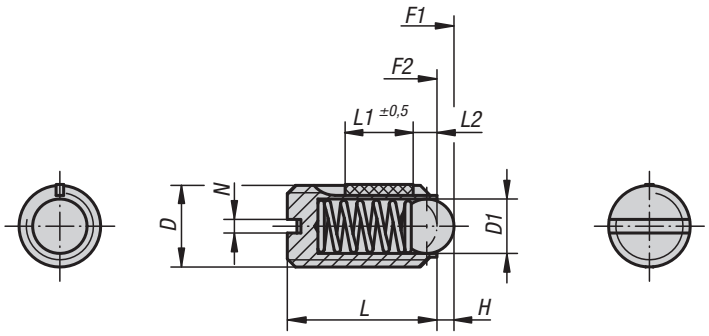
6. Wide variety of solutions

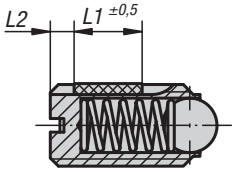
M3 to M16 or 6-32 to 5/8-11, light pressure to high pressure, steel or stainless steel, KIPP LONG-LOK Plungers will perform in any application.

Spring Plungers

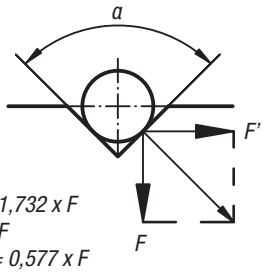
LONG-LOK, ball style, slotted, steel

INCH Parts METRIC Parts





D = M3, M4, M5, M6
6-32, 8-36, 8-32, 10-32,
1/4-28, 1/4-20



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

Material:
Body in steel quality class 5.8.
Ball in steel.
Spring in spring steel class D.

LONG-LOK thread system nylon

Type:
Black oxide finish.
Ball hardened.

Part Number Example:
K0321.AD

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring Plungers, LONG-LOK, ball style, slotted, steel, standard end pressure, inch

Item 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, after 3rd use ca. Nm
K0321.AD	6-32	1,5	7	4	0,4	0,4	1,5	3	0,1	0,07
K0321.AG	8-36	2,5	9	5	0,8	0,6	4	10	0,18	0,12
K0321.AE	8-32	2,5	9	5	0,8	0,6	4	10	0,18	0,12
K0321.A1	10-32	3	12	6	0,9	0,8	6	11	0,12	0,08
K0321.AJ	1/4-28	3,5	14	7	1	1	9	13	0,43	0,21
K0321.A2	1/4-20	3,5	14	7	1	1	9	13	0,43	0,21
K0321.A3	5/16-18	5	16	8	1,5	1,2	15	30	1,09	0,37
K0321.A4	3/8-16	6	19	9	2	1,6	20	35	1,36	0,62
K0321.A5	1/2-13	8	22	10	2,5	2	30	55	2,03	1,36
K0321.A6	5/8-11	10	24	14	3,5	2,5	65	125	3,95	2,95

Spring Plungers

LONG-LOK, ball style, slotted, steel

KIPP Spring Plungers, LONG-LOK, ball style, slotted, steel, heavy end pressure, inch

Item 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, after 3rd use ca. Nm
K0321.2A1	10-32	3	12	6	0,9	0,8	19	30	0,12	0,08
K0321.2AJ	1/4-28	3,5	14	7	1	1	28	40	0,43	0,21
K0321.2A2	1/4-20	3,5	14	7	1	1	28	40	0,43	0,21
K0321.2A3	5/16-18	5	16	8	1,5	1,2	47	73	1,09	0,37
K0321.2A4	3/8-16	6	19	9	2	1,6	66	100	1,36	0,62
K0321.2A5	1/2-13	8	22	10	2,5	2	66	120	2,03	1,36
K0321.2A6	5/8-11	10	24	14	3,5	2,5	90	180	3,95	2,95

KIPP Spring Plungers, LONG-LOK, ball style, slotted, steel, standard end pressure, metric

Item 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, after 3rd use ca. 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

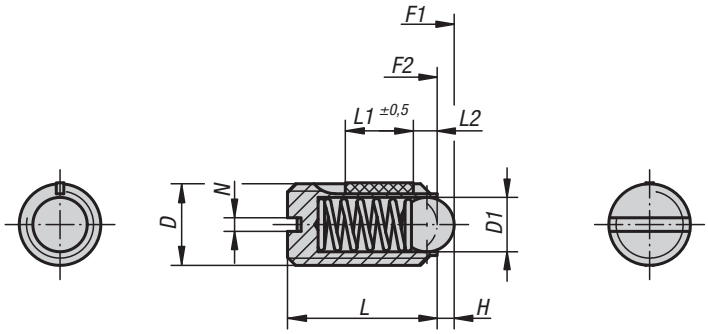
KIPP Spring Plungers, LONG-LOK, ball style, slotted, steel, heavy end pressure, metric

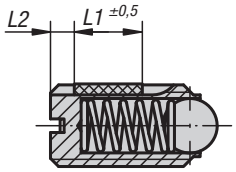
Item No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque, after 3rd use ca. Nm
K0321.203	M3	1,5	7	4	0,4	0,4	5	7	0,1	0,07
K0321.204	M4	2,5	9	5	0,8	0,6	12	22	0,18	0,12
K0321.205	M5	3	12	6	0,9	0,8	19	30	0,12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

Spring Plungers

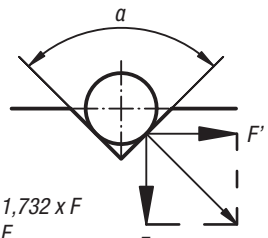
LONG-LOK, ball style, slotted, stainless steel

Rostfrei | INCH Parts | METRIC Parts





D = M3, M4, M5, M6
6-32, 8-36, 8-32, 10-32,
1/4-28, 1/4-20



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

Material:
Body stainless steel 1.4305;
ball stainless steel 1.4034;
spring stainless steel 1.4310

LONG-LOK thread system in nylon

Type:
Natural finish. Ball hardened.

Part Number Example:
K0322.AD

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring Plungers, LONG-LOK, ball style, slotted, stainless steel, standard end pressure, inch

Item 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, after 3rd use ca. Nm
K0322.AD	6-32	1,5	7	4	0,4	0,4	1,5	3	0,1	0,07
K0322.AG	8-36	2,5	9	5	0,8	0,6	4	10	0,18	0,12
K0322.AE	8-32	2,5	9	5	0,8	0,6	4	10	0,18	0,12
K0322.A1	10-32	3	12	6	0,9	0,8	6	11	0,12	0,08
K0322.AJ	1/4-28	3,5	14	7	1	1	9	13	0,43	0,21
K0322.A2	1/4-20	3,5	14	7	1	1	9	13	0,43	0,21
K0322.A3	5/16-18	5	16	8	1,5	1,2	15	30	1,09	0,37
K0322.A4	3/8-16	6	19	9	2	1,6	20	35	1,36	0,62
K0322.A5	1/2-13	8	22	10	2,5	2	30	55	2,03	1,36
K0322.A6	5/8-11	10	24	14	3,5	2,5	65	125	3,95	2,95

Spring Plungers

LONG-LOK, ball style, slotted, stainless steel

KIPP Spring Plungers, LONG-LOK, ball style, slotted, stainless steel, heavy end pressure, inch

Item 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, after 3rd use ca. Nm
K0322.2A1	10-32	3	12	6	0,9	0,8	19	30	0,12	0,08
K0322.2AJ	1/4-28	3,5	14	7	1	1	28	40	0,43	0,21
K0322.2A2	1/4-20	3,5	14	7	1	1	28	40	0,43	0,21
K0322.2A3	5/16-18	5	16	8	1,5	1,2	47	73	1,09	0,37
K0322.2A4	3/8-16	6	19	9	2	1,6	66	100	1,36	0,62
K0322.2A5	1/2-13	8	22	10	2,5	2	66	120	2,03	1,36
K0322.2A6	5/8-11	10	24	14	3,5	2,5	90	180	3,95	2,95

KIPP Spring Plungers, LONG-LOK, ball style, slotted, stainless steel, standard end pressure, metric

Item 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, after 3rd use ca. 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	0,08
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

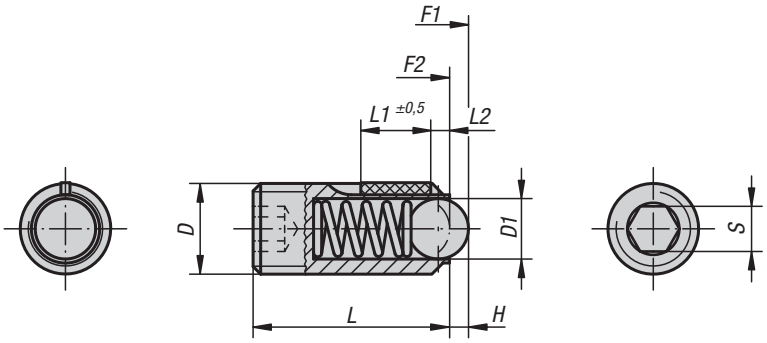
KIPP Spring Plungers, LONG-LOK, ball style, slotted, stainless steel, heavy end pressure, metric

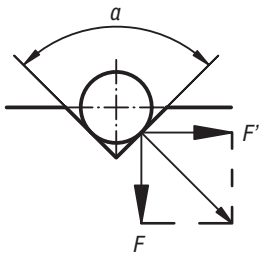
Item No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque, after 3rd use ca. Nm
K0322.203	M3	1,5	7	4	0,4	0,4	5	7	0,1	0,07
K0322.204	M4	2,5	9	5	0,8	0,6	12	22	0,18	0,12
K0322.205	M5	3	12	6	0,9	0,8	19	30	0,12	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

Spring Plungers

LONG-LOK, ball style, hexagon socket, steel

INCH Parts METRIC Parts





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

Material:
Body in steel quality class 5.8.
Ball in steel.
Spring in spring steel class D.

LONG-LOK thread system nylon

Type:
Black oxide finish.
Ball hardened.

Part Number Example:
K0325.AJ

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring Plungers, LONG-LOK, ball style, hexagon socket, steel, standard end pressure, inch

Item 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, after 3rd use ca. Nm
K0325.AJ	1/4-28	3,5	15	7	1	1/8	9	13	0,44	0,21
K0325.A2	1/4-20	3,5	15	7	1	1/8	9	13	0,44	0,21
K0325.A3	5/16-18	5	18	8	1,5	5/32	15	30	1,1	0,38
K0325.A4	3/8-16	6	23	9	2	3/16	20	35	1,3	0,6
K0325.A5	1/2-13	8	26	10	2,5	7/32	30	55	2	1,3
K0325.A6	5/8-11	10	33	14	3,5	5/16	65	125	3,9	3

Spring Plungers

LONG-LOK, ball style, hexagon socket, steel

KIPP Spring Plungers, LONG-LOK, ball style, hexagon socket, steel, heavy end pressure, inch

Item 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, after 3rd use ca. Nm
K0325.2AJ	1/4-28	3,5	15	7	1	1/8	28	40	0,44	0,21
K0325.2A2	1/4-20	3,5	15	7	1	1/8	28	40	0,44	0,21
K0325.2A3	5/16-18	5	18	8	1,5	5/32	47	73	1,1	0,38
K0325.2A4	3/8-16	6	23	9	2	3/16	66	100	1,3	0,6
K0325.2A5	1/2-13	8	26	10	2,5	7/32	66	120	2	1,3
K0325.2A6	5/8-11	10	33	14	3,5	5/16	90	180	3,9	3

KIPP Spring Plungers, LONG-LOK, ball style, hexagon socket, steel, standard end pressure, metric

Item 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, after 3rd use ca. 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

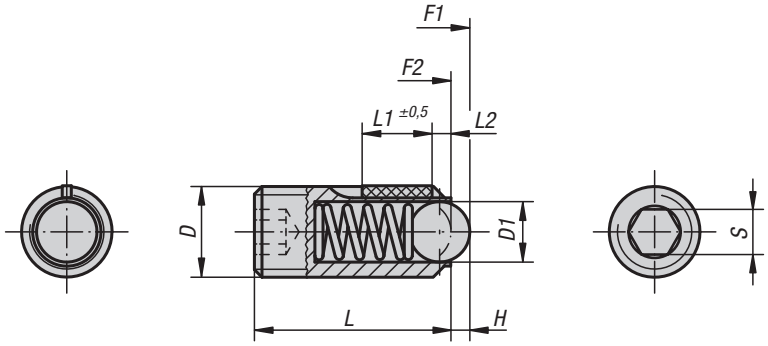
KIPP Spring Plungers, LONG-LOK, ball style, hexagon socket, steel, heavy end pressure, metric

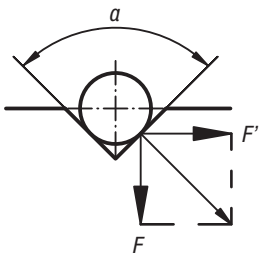
Item No.	D	D1	L	L1	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque, after 3rd use ca. Nm
K0325.203	M3	1,5	9	4	0,4	1,5	5	7	0,1	0,07
K0325.204	M4	2,5	10	5	0,8	2	12	22	0,18	0,12
K0325.205	M5	3	14	6	0,9	2,5	19	30	0,12	0,08
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

Spring Plungers

LONG-LOK, ball style, hexagon socket, stainless steel

Rostfrei | INCH Parts | METRIC Parts





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

Material:
Body stainless steel 1.4305;
ball stainless steel 1.4034;
spring stainless steel 1.4310

LONG-LOK thread system in nylon

Type:
Natural finish. Ball hardened.

Part Number Example:
K0326.A2

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring Plungers, LONG-LOK, ball style, hexagon socket, stainless steel, standard end pressure, inch

Item 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, after 3rd use ca. Nm
K0326.AJ	1/4-28	3,5	15	7	1	1/8	9	13	0,44	0,21
K0326.A2	1/4-20	3,5	15	7	1	1/8	9	13	0,44	0,21
K0326.A3	5/16-18	5	18	8	1,5	5/32	15	30	1,1	0,38
K0326.A4	3/8-16	6	23	9	2	3/16	20	35	1,3	0,6
K0326.A5	1/2-13	8	26	10	2,5	7/32	30	55	2	1,3
K0326.A6	5/8-11	10	33	14	3,5	5/16	65	125	3,9	3

Spring Plungers

LONG-LOK, ball style, hexagon socket, stainless steel

KIPP Spring Plungers, LONG-LOK, ball style, hexagon socket, stainless steel, heavy end pressure, inch

Item 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, after 3rd use ca. Nm
K0326.2AJ	1/4-28	3,5	15	7	1	1/8	28	40	0,44	0,21
K0326.2A2	1/4-20	3,5	15	7	1	1/8	28	40	0,44	0,21
K0326.2A3	5/16-18	5	18	8	1,5	5/32	47	73	1,1	0,38
K0326.2A4	3/8-16	6	23	9	2	3/16	66	100	1,3	0,6
K0326.2A5	1/2-13	8	26	10	2,5	7/32	66	120	2	1,3
K0326.2A6	5/8-11	10	33	14	3,5	5/16	90	180	3,9	3

KIPP Spring Plungers, LONG-LOK, ball style, hexagon socket, stainless steel, standard end pressure, metric

Item 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, after 3rd use ca. 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

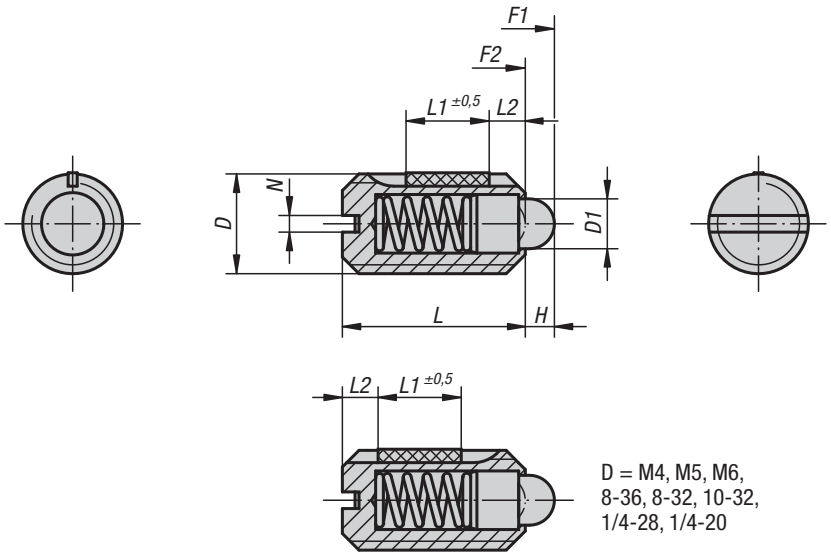
KIPP Spring Plungers, LONG-LOK, ball style, hexagon socket, stainless steel, heavy end pressure, metric

Item 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, after 3rd use ca. 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

Spring Plungers

LONG-LOK, pin style, slotted, steel

INCH Parts METRIC Parts



D = M4, M5, M6,
8-36, 8-32, 10-32,
1/4-28, 1/4-20

Material:
Body in steel quality class 5.8.
Pressure pin in steel.
Spring steel class D.

LONG-LOK thread system nylon.

Type:
Black oxide finish.
Pressure pin hardened.

Part Number Example:
K0323.AG

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring Plungers, LONG-LOK, pin style, slotted, steel, standard end pressure, inch

Item 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, after 3rd use ca. Nm
K0323.AG	8-36	1,8	9	5	1,5	0,6	6	20	0,18	0,12
K0323.AE	8-32	1,8	9	5	1,5	0,6	6	20	0,18	0,12
K0323.A1	10-32	2,4	12	6	2	0,8	6	20	0,12	0,08
K0323.AJ	1/4-28	2,7	14	7	2	1	7	20	0,44	0,21
K0323.A2	1/4-20	2,7	14	7	2	1	7	20	0,44	0,21
K0323.A3	5/16-18	4	16	8	2	1,2	15	30	1,1	0,38
K0323.A4	3/8-16	4,5	19	9	2,5	1,6	20	35	1,36	0,62
K0323.A5	1/2-13	6	22	10	3,5	2	30	55	2,11	1,41
K0323.A6	5/8-11	8,5	24	14	4,5	2,5	45	100	3,95	3,05

Spring Plungers

LONG-LOK, pin style, slotted, steel

KIPP Spring Plungers, LONG-LOK, pin style, slotted, steel, light end pressure, inch

Item 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, after 3rd use ca. Nm
K0323.1AG	8-36	1,8	9	5	1,5	0,6	2	7	0,18	0,12
K0323.1AE	8-32	1,8	9	5	1,5	0,6	3	10	0,18	0,12
K0323.1A1	10-32	2,4	12	6	2	0,8	3	10	0,12	0,08
K0323.1AJ	1/4-28	2,7	14	7	2	1	3	9	0,44	0,21
K0323.1A2	1/4-20	2,7	14	7	2	1	4	10	0,44	0,21
K0323.1A3	5/16-18	4	16	8	2	1,2	7	15	1,1	0,38
K0323.1A4	3/8-16	4,5	19	9	2,5	1,6	9	16	1,36	0,62
K0323.1A5	1/2-13	6	22	10	3,5	2	14	26	2,11	1,41
K0323.1A6	5/8-11	8.5	24	14	4.5	2.5	22	50	3,95	3,05

KIPP Spring Plungers, LONG-LOK, pin style, slotted, steel, standard end pressure, metric

Item 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, after 3rd use ca. 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

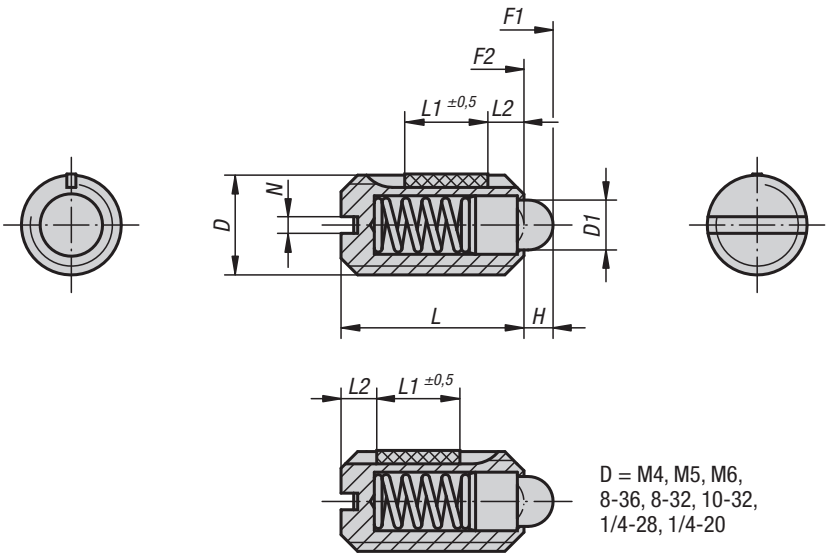
KIPP Spring Plungers, LONG-LOK, pin style, slotted, steel, light end pressure, metric

Item 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, after 3rd use ca. 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

Spring Plungers

LONG-LOK, pin style, slotted, stainless steel

INCH Parts METRIC Parts



D = M4, M5, M6,
8-36, 8-32, 10-32,
1/4-28, 1/4-20

Material:
Body in stainless steel 1.4305;
pressure pin in stainless steel 1.4034;
spring in stainless steel 1.4310

LONG-LOK thread system in nylon

Type:
Body natural finish,
pressure pin hardened

Part Number Example:
K0324.A3

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring Plungers, LONG-LOK, pin style, slotted, stainless steel, standard end pressure, inch

Item 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, after 3rd use ca. Nm
K0324.AG	8-36	1,8	9	5	1,5	0,6	6	20	0,18	0,12
K0324.AE	8-32	1,8	9	5	1,5	0,6	6	20	0,18	0,12
K0324.A1	10-32	2,4	12	6	2	0,8	6	20	0,12	0,08
K0324.AJ	1/4-28	2,7	14	7	2	1	7	20	0,44	0,21
K0324.A2	1/4-20	2,7	14	7	2	1	7	20	0,44	0,21
K0324.A3	5/16-18	4	16	8	2	1,2	15	30	1,1	0,38
K0324.A4	3/8-16	4,5	19	9	2,5	1,6	20	35	1,36	0,62
K0324.A5	1/2-13	6	22	10	3,5	2	30	55	2,11	1,41
K0324.A6	5/8-11	8,5	24	14	4,5	2,5	45	100	3,95	3,05

Spring Plungers

LONG-LOK, pin style, slotted, stainless steel

KIPP Spring Plungers, LONG-LOK, pin style, slotted, stainless steel, light end pressure, inch

Item 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, after 3rd use ca. Nm
K0324.1AG	8-36	1,8	9	5	1,5	0,6	2	7	0,18	0,12
K0324.1AE	8-32	1,8	9	5	1,5	0,6	3	10	0,18	0,12
K0324.1A1	10-32	2,4	12	6	2	0,8	3	10	0,12	0,08
K0324.1AJ	1/4-28	2,7	14	7	2	1	3	9	0,44	0,21
K0324.1A2	1/4-20	2,7	14	7	2	1	4	10	0,44	0,21
K0324.1A3	5/16-18	4	16	8	2	1,2	7	15	1,1	0,38
K0324.1A4	3/8-16	4,5	19	9	2,5	1,6	9	16	1,36	0,62
K0324.1A5	1/2-13	6	22	10	3,5	2	14	26	2,11	1,41
K0324.1A6	5/8-11	8,5	24	14	4,5	2,5	22	50	3,95	3,05

KIPP Spring Plungers, LONG-LOK, pin style, slotted, stainless steel, standard end pressure, metric

Item 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, after 3rd use ca. 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

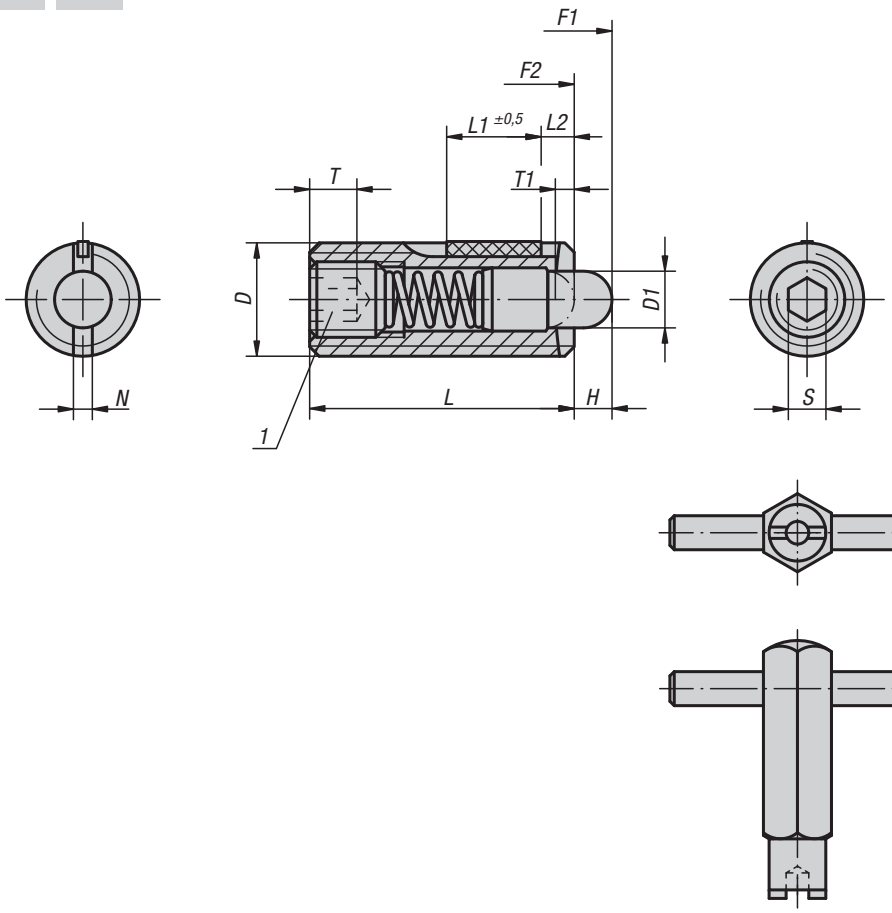
KIPP Spring Plungers, LONG-LOK, pin style, slotted, stainless steel, light end pressure, metric

Item 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, after 3rd use ca. 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

Spring Plungers

LONG-LOK, pin style, hexagon socket, steel body and pin

INCH Parts METRIC Parts



Material:
Body in steel quality class 5.8.
Pressure pin in steel.
Spring in steel class D.

LONG-LOK thread system nylon

Type:
Black oxide finish.
Pressure pin hardened.

Part Number Example:
K0327.1A1

Drawing reference:
L2 = approx. 2x thread pitch
1) grub screw glued in

KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, steel body and pin, standard end pressure, inch

Item 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, after 3rd use ca. Nm	Item No. Assembly key
K0327.A1	10-32	2,4	18	7	2,3	2	0,8	0,8	1/16	6	20	0,12	0,08	K0317.905
K0327.AJ	1/4-28	2,7	20	7	2,5	2,5	1	1	5/64	7	20	0,45	0,22	K0317.906
K0327.A2	1/4-20	2,7	20	7	2,5	2,5	1	1	5/64	7	20	0,45	0,22	K0317.906
K0327.A3	5/16-18	3,5	22	8	3	3	1,4	1,2	3/32	9	35	1,05	0,37	K0317.908
K0327.A4	3/8-16	4	22	9	3	3,5	1,4	1,6	1/8	9	35	1,3	0,6	K0317.910
K0327.A5	1/2-13	6	28	10	4	5	2	2	5/32	12	55	2	1,3	K0317.912
K0327.A6	5/8-11	7,5	32	14	5	6	2,5	2,5	3/16	45	100	3,9	3	K0317.916

KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, steel body and pin, light end pressure, inch

Item 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, after 3rd use ca. Nm	Item No. Assembly key
K0327.1A1	10-32	2,4	18	7	2,3	2	0,8	0,8	1/16	3	10	0,12	0,08	K0317.905
K0327.1AJ	1/4-28	2,7	20	7	2,5	2,5	1	1	5/64	3	9	0,45	0,22	K0317.906
K0327.1A2	1/4-20	2,7	20	7	2,5	2,5	1	1	5/64	3	9	0,45	0,22	K0317.906
K0327.1A3	5/16-18	3,5	22	8	3	3	1,4	1,2	3/32	4	16	1,05	0,37	K0317.908
K0327.1A4	3/8-16	4	22	9	3	3,5	1,4	1,6	1/8	4	16	1,3	0,6	K0317.910
K0327.1A5	1/2-13	6	28	10	4	5	2	2	5/32	5	27	2	1,3	K0317.912
K0327.1A6	5/8-11	7,5	32	14	5	6	2,5	2,5	3/16	20	45	3,9	3	K0317.916

Spring Plungers

LONG-LOK, pin style, hexagon socket, steel body and pin

KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, steel body and pin, heavy end pressure, inch

Item 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, after 3rd use ca. Nm	Item No. Assembly key
K0327.2A1	10-32	2,4	18	7	2,3	2	0,8	0,8	1/16	11	29	0,12	0,08	K0317.905
K0327.2AJ	1/4-28	2,7	20	7	2,5	2,5	1	1	5/64	14	37	0,45	0,22	K0317.906
K0327.2A2	1/4-20	2,7	20	7	2,5	2,5	1	1	5/64	14	37	0,45	0,22	K0317.906
K0327.2A3	5/16-18	3,5	22	8	3	3	1,4	1,2	3/32	22	65	1,05	0,37	K0317.908
K0327.2A4	3/8-16	4	22	9	3	3,5	1,4	1,6	1/8	19	70	1,3	0,6	K0317.910
K0327.2A5	1/2-13	6	28	10	4	5	2	2	5/32	25	85	2	1,3	K0317.912
K0327.2A6	5/8-11	7,5	32	14	5	6	2,5	2,5	3/16	60	150	3,9	3	K0317.916

KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, steel body and pin, standard end pressure, metric

Item 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, after 3rd use ca. Nm	Item 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, LONG-LOK, pin style, hexagon socket, steel body and pin, light end pressure, metric

Item 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, after 3rd use ca. Nm	Item 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

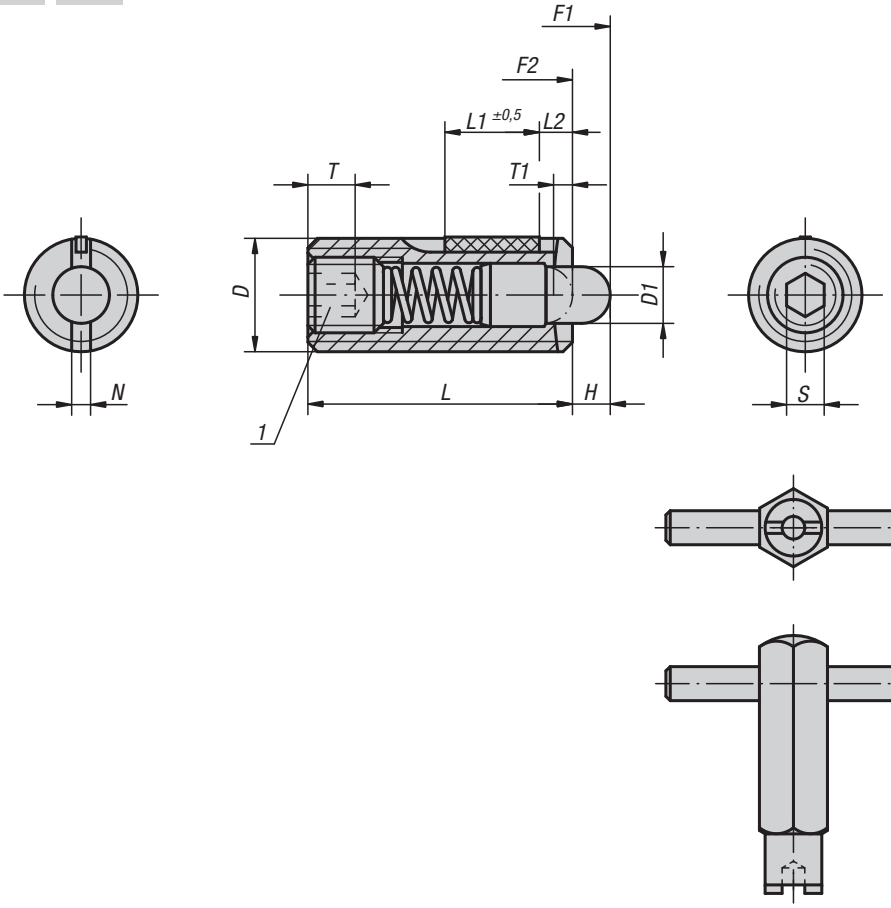
KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, steel body and pin, heavy end pressure, metric

Item 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, after 3rd use ca. Nm	Item 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

Spring Plungers

LONG-LOK, pin style, hexagon socket, steel body and POM pin

INCH Parts METRIC Parts



Material:
Body in steel quality class 5.8.
Pressure pin in POM.
Spring spring steel class D.

LONG-LOK thread system nylon.

Type:
Black oxide finish.

Part Number Example:
K0328.A1

Drawing reference:
L2 = approx. 2x thread pitch
1) grub screw glued in

KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, steel body and POM pin, standard end pressure, inch

Item 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, after 3rd use ca. Nm	Item No. Assembly key
K0328.A1	10-32	2,4	18	7	2,3	2	0,8	0,8	1/16	6	20	0,12	0,08	K0317.905
K0328.AJ	1/4-28	2,7	20	7	2,5	2,5	1	1	5/64	7	20	0,45	0,22	K0317.906
K0328.A2	1/4-20	2,7	20	7	2,5	2,5	1	1	5/64	7	20	0,45	0,22	K0317.906
K0328.A3	5/16-18	3,5	22	8	3	3	1,4	1,2	3/32	9	35	1,05	0,37	K0317.908
K0328.A4	3/8-16	4	22	9	3	3,5	1,4	1,6	1/8	9	35	1,3	0,6	K0317.910
K0328.A5	1/2-13	6	28	10	4	5	2	2	5/32	10	55	2	1,3	K0317.912
K0328.A6	5/8-11	7,5	32	14	5	6	2,5	2,5	3/16	45	100	3,9	3	K0317.916

KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, steel body and POM pin, light end pressure, inch

Item 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, after 3rd use ca. Nm	Item No. Assembly key
K0328.1A1	10-32	2,4	18	7	2,3	2	0,8	0,8	1/16	3	10	0,12	0,08	K0317.905
K0328.1AJ	1/4-28	2,7	20	7	2,5	2,5	1	1	5/64	3	9	0,45	0,22	K0317.906
K0328.1A2	1/4-20	2,7	20	7	2,5	2,5	1	1	5/64	3	9	0,45	0,22	K0317.906
K0328.1A3	5/16-18	3,5	22	8	3	3	1,4	1,2	3/32	4	16	1,05	0,37	K0317.908
K0328.1A4	3/8-16	4	22	9	3	3,5	1,4	1,6	1/8	4	16	1,3	0,6	K0317.910
K0328.1A5	1/2-13	6	28	10	4	5	2	2	5/32	5	27	2	1,3	K0317.912
K0328.1A6	5/8-11	7,5	32	14	5	6	2,5	2,5	3/16	20	45	3,9	3	K0317.916

Spring Plungers

LONG-LOK, pin style, hexagon socket, steel body and POM pin

KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, steel body and POM pin, standard end pressure, metric

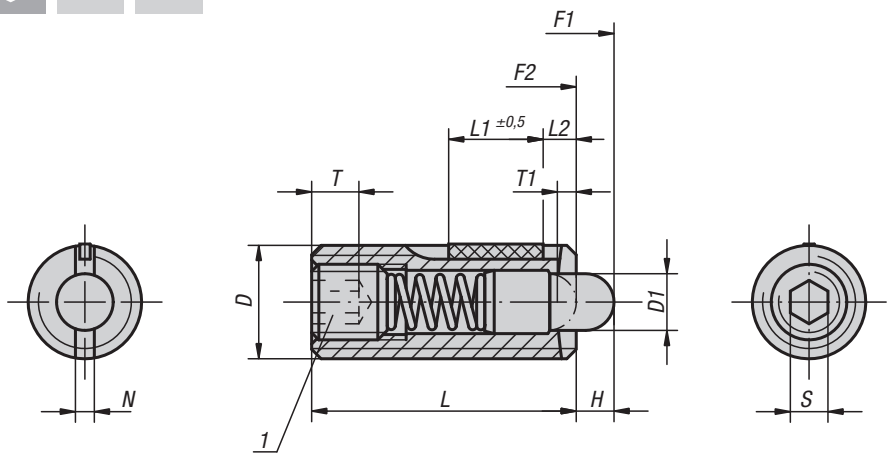
Item No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque, after 3rd use ca. Nm	Item No. Assembly key
K0328.05	M5	2,4	18	7	2,3	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K0328.06	M6	2,7	20	7	2,5	2,5	1	1	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

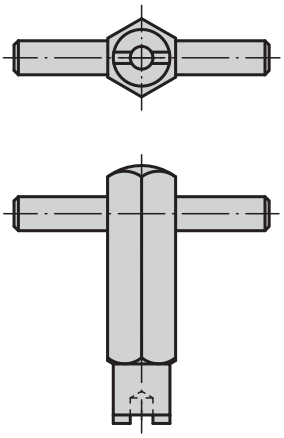
KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, steel body and POM pin, light end pressure, metric

Item 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, after 3rd use ca. Nm	Item 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

Spring Plungers

LONG-LOK, pin style, hexagon socket, stainless steel body and pin





Material:
Body stainless steel 1.4305;
pressure pin stainless steel 1.4034;
spring stainless steel 1.4310

LONG-LOK thread system in nylon

Type:
Body natural finish,
pressure pin hardened

Part Number Example:
K0329.A1

Drawing reference:
L2 = approx. 2x thread pitch
1) grub screw glued in

KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, stainless steel body and pin, standard end pressure, inch

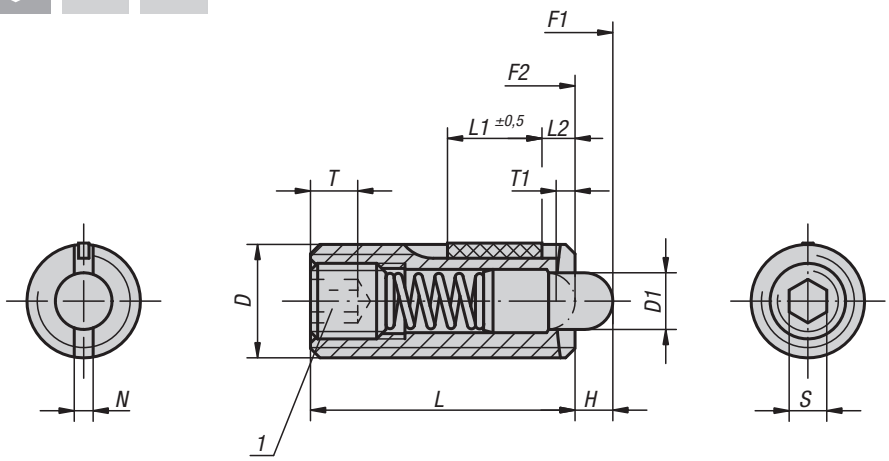
Item No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque, after 3rd use ca. Nm	Item No. Assembly key
K0329.A1	10-32	2,4	18	7	2,3	2	0,8	0,8	1/16	5	17	0,12	0,08	K0317.905
K0329.AJ	1/4-28	2,7	20	7	2,5	2,5	1	1	5/64	6	17	0,45	0,22	K0317.906
K0329.A2	1/4-20	2,7	20	7	2,5	2,5	1	1	5/64	6	17	0,45	0,22	K0317.906
K0329.A3	5/16-18	3,5	22	8	3	3	1,4	1,2	3/32	7	29	1,05	0,37	K0317.908
K0329.A4	3/8-16	4	22	9	3	3,5	1,4	1,6	1/8	8	31	1,3	0,6	K0317.910
K0329.A5	1/2-13	6	28	10	4	5	2	2	5/32	10	47	2	1,3	K0317.912
K0329.A6	5/8-11	7,5	32	14	5	6	2,5	2,5	3/16	45	100	3,9	3	K0317.916

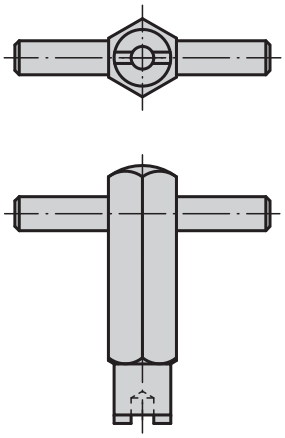
KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, stainless steel body and pin, standard end pressure, metric

Item 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, after 3rd use ca. Nm	Item 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

Spring Plungers

LONG-LOK, pin style, hexagon socket, stainless steel body and POM pin





Material:
Body in stainless steel 1.4305;
pressure pin in POM;
spring in stainless steel 1.4310

LONG-LOK thread system in nylon

Type:
Natural finish.

Part Number Example:
K0330.A6

Drawing reference:
L2 = approx. 2x thread pitch
1) grub screw glued in

KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, stainless steel body and POM pin, standard end pressure, inch

Item 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, after 3rd use ca. Nm	Item No. Assembly key
K0330.A1	10-32	2,4	18	7	2,3	2	0,8	0,8	1/16	5	17	0,12	0,08	K0317.905
K0330.AJ	1/4-28	2,7	20	7	2,5	2,5	1	1	5/64	6	17	0,45	0,22	K0317.906
K0330.A2	1/4-20	2,7	20	7	2,5	2,5	1	1	5/64	6	17	0,45	0,22	K0317.906
K0330.A3	5/16-18	3,5	22	8	3	3	1,4	1,2	3/32	7	29	1,05	0,37	K0317.908
K0330.A4	3/8-16	4	22	9	3	3,5	1,4	1,6	1/8	8	31	1,3	0,6	K0317.910
K0330.A5	1/2-13	6	28	10	4	5	2	2	5/32	10	47	2	1,3	K0317.912
K0330.A6	5/8-11	7,5	32	14	5	6	2,5	2,5	3/16	45	100	3,9	3	K0317.916

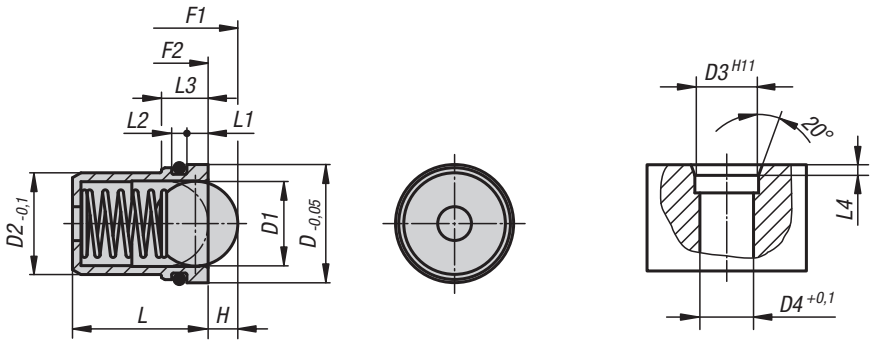
KIPP Spring Plungers, LONG-LOK, pin style, hexagon socket, stainless steel body and POM pin, standard end pressure, metric

Item 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, after 3rd use ca. Nm	Item 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

Spring Plungers

push fit, with o-ring seal

METRIC Parts

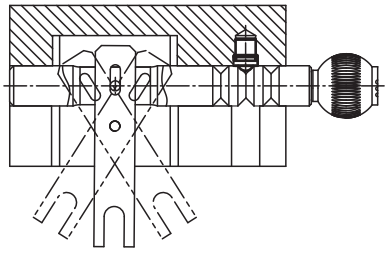


Material:
Body, spring and ball in stainless steel,
o-ring NBR

Type:
Body natural finish,
ball hardened, natural finish,
o-ring black

Part Number Example:
K0582.05

Note:
The KIPP Push-Fit Spring Plunger with o-ring was created for overhead vertical installations. The plunger can easily be installed by hand or using simple tools. The unique o-ring design holds the plunger in place and prevents it falling out.

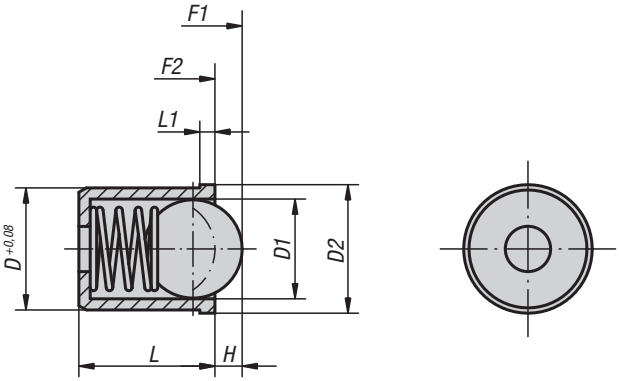


KIPP Spring Plungers push fit, with o-ring seal, metric

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

Spring Plungers

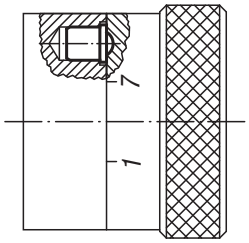
push fit stainless steel



Material:
Body and spring in stainless steel.
Ball in stainless steel or in POM.

Type:
Body natural finish.
Ball hardened, natural finish.
Plastic ball white.

Part Number Example:
K0333.04



KIPP Spring Plungers, push fit, stainless steel, metric

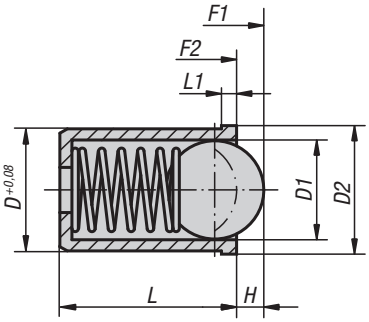
Item No.	Component material	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0333.04	Stainless steel	4	3	4,6	5	1	0,8	3	7
K0333.05	Stainless steel	5	4	5,6	6	1	1	4	7
K0333.06	Stainless steel	6	5	6,5	7	1	1,5	6	12
K0333.08	Stainless steel	8	6,5	8,5	9	1	1,8	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

KIPP Spring Plungers, push fit, stainless steel, metric

Item No.	Component material	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0333.304	Pom	4	3	4,6	5	1	0,5	3	7
K0333.305	Pom	5	4	5,6	6	1	0,6	4	7
K0333.306	Pom	6	5	6,5	7	1	1,1	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

Spring Plungers

push fit extended, stainless steel



Material:
Body and spring in stainless steel.
Ball in stainless steel or in POM.

Type:
Body natural finish.
Ball hardened, natural finish.
Plastic ball white.

Part Number Example:
K0333.104

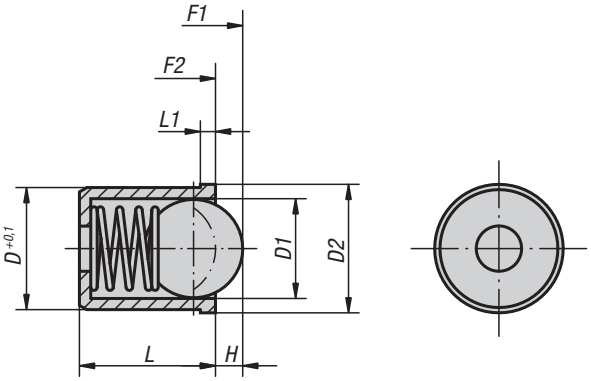
KIPP Spring Plungers push fit, extended, stainless steel, metric

Item 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

Spring Plungers

push fit plastic

METRIC Parts



Material:
Body thermoplastic,
spring in stainless steel,
ball in stainless steel or in POM.

Type:
Body black.
Ball hardened, natural finish.
Plastic ball white.

Part Number Example:
K0334.04

KIPP Sping Plungers, push fit, plastic, metric

Item 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

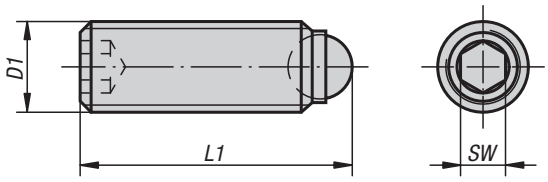
KIPP Sping Plungers, push fit, plastic, metric

Item No.	Component material	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
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

Ball-end thrust screws without head

stainless steel with full ball

New Item

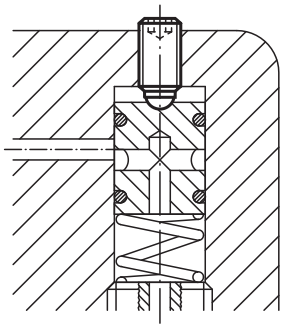


Material:
Screw stainless steel.
Ball stainless steel.

Type:
Stainless steel natural finish.

Part Number Example:
K0384.1046

Note:
Ball-end thrust screws with full ball are used when a clean, polished contact surface is required. Longer versions have been designed especially to be glued in, allowing mechanical connecting elements with external threads to be made cost-effectively for small and medium-sized runs.



Ball-end thrust screws without head

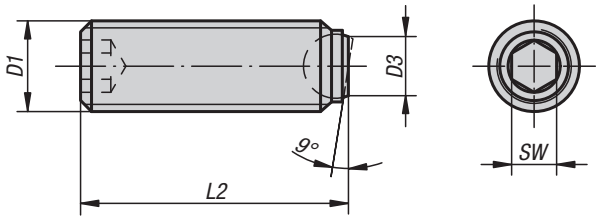
stainless steel with full ball

KIPP Ball-end thrust screws without head, stainless steel, with full ball

Item No.	D1	L1	Ball-Ø	SW
K0384.1046	M4	6	2,5	2
K0384.10410	M4	10	2,5	2
K0384.10416	M4	16	2,5	2
K0384.1048	M4	8	2,5	2
K0384.10412	M4	12	2,5	2
K0384.10520	M5	20	3	2,5
K0384.10516	M5	16	3	2,5
K0384.10512	M5	12	3	2,5
K0384.1058	M5	8	3	2,5
K0384.10510	M5	10	3	2,5
K0384.10525	M5	25	3	2,5
K0384.10660	M6	60,8	4	3
K0384.10680	M6	80,8	4	3
K0384.10616	M6	16,8	4	3
K0384.10620	M6	20,8	4	3
K0384.10610	M6	10,8	4	3
K0384.10625	M6	25,8	4	3
K0384.10650	M6	50,8	4	3
K0384.10612	M6	12,8	4	3
K0384.10850	M8	51,2	5,5	4
K0384.10810	M8	11,2	5,5	4
K0384.10825	M8	26,2	5,5	4
K0384.10812	M8	13,2	5,5	4
K0384.10830	M8	31,2	5,5	4
K0384.10820	M8	21,2	5,5	4
K0384.10880	M8	81,2	5,5	4
K0384.10816	M8	17,2	5,5	4
K0384.10860	M8	61,2	5,5	4
K0384.11020	M10	21,7	7	5
K0384.11025	M10	26,7	7	5
K0384.11035	M10	36,7	7	5
K0384.11016	M10	17,7	7	5
K0384.11012	M10	13,7	7	5
K0384.11220	M12	22	8,5	6
K0384.11232	M12	34	8,5	6
K0384.11230	M12	32	8,5	6
K0384.11240	M12	42	8,5	6
K0384.11225	M12	27	8,5	6
K0384.11216	M12	18	8,5	6
K0384.11650	M16	53,3	12	8
K0384.11635	M16	38,3	12	8
K0384.11625	M16	28,3	12	8
K0384.11620	M16	23,3	12	8

Ball-end thrust screws without head

stainless steel with flattened ball

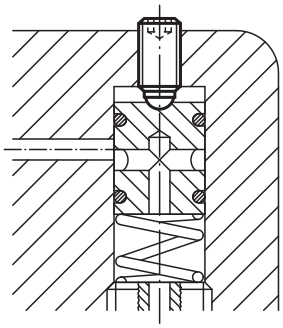


Material:
Screw and ball stainless steel.

Type:
Stainless steel natural finish.

Part Number Example:
K0384.2046

Note:
Surfaces which are not flat and parallel can be firmly clamped or supported with with a flattened ball, the movable ball can adapt itself up to 9°.
Longer versions have been designed especially to be glued in. This allows mechanical connecting elements with external thread to be made cost-effectively for small and medium-sized series.



Ball-end thrust screws without head

stainless steel with flattened ball

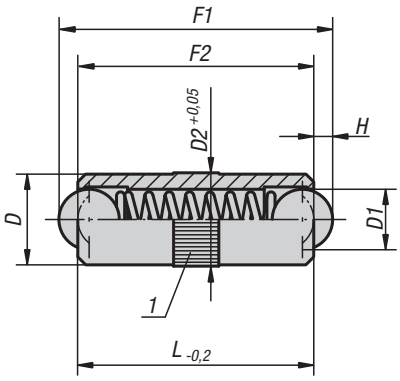
KIPP Ball-end thrust screws without head, stainless steel with flattened ball, metric

Item No.	D1	D3	L2	Ball-Ø	SW
K0384.2046	M4	1,4	5,8	2,5	2
K0384.2048	M4	1,4	7,8	2,5	2
K0384.20410	M4	1,4	9,8	2,5	2
K0384.20412	M4	1,4	11,8	2,5	2
K0384.20416	M4	1,4	15,8	2,5	2
K0384.2058	M5	2	7,6	3	2,5
K0384.20510	M5	2	9,6	3	2,5
K0384.20512	M5	2	11,6	3	2,5
K0384.20516	M5	2	15,6	3	2,5
K0384.20520	M5	2	19,6	3	2,5
K0384.20525	M5	2	24,6	3	2,5
K0384.20610	M6	3	10,1	4	3
K0384.20612	M6	3	12,1	4	3
K0384.20616	M6	3	16,1	4	3
K0384.20620	M6	3	20,1	4	3
K0384.20625	M6	3	25,1	4	3
K0384.20650	M6	3	50,1	4	3
K0384.20660	M6	3	60,1	4	3
K0384.20680	M6	3	80,1	4	3
K0384.20810	M8	4,1	10,3	5,5	4
K0384.20812	M8	4,1	12,3	5,5	4
K0384.20816	M8	4,1	16,3	5,5	4
K0384.20820	M8	4,1	20,3	5,5	4
K0384.20825	M8	4,1	25,3	5,5	4
K0384.20830	M8	4,1	30,3	5,5	4
K0384.20850	M8	4,1	50,3	5,5	4
K0384.20860	M8	4,1	60,3	5,5	4
K0384.20880	M8	4,1	80,3	5,5	4
K0384.21012	M10	5,6	12,3	7	5
K0384.21016	M10	5,6	16,3	7	5
K0384.21020	M10	5,6	20,3	7	5
K0384.21025	M10	5,6	25,3	7	5
K0384.21035	M10	5,6	35,3	7	5
K0384.21216	M12	7	16,2	8,5	6
K0384.21220	M12	7	20,2	8,5	6
K0384.21230	M12	7	30,2	8,5	6
K0384.21240	M12	7	40,2	8,5	6
K0384.21620	M16	10,7	20	12	8
K0384.21625	M16	10,7	25	12	8
K0384.21635	M16	10,7	35	12	8
K0384.21650	M16	10,7	50	12	8

Spring Plungers

smooth surface, double-sided

METRIC Parts

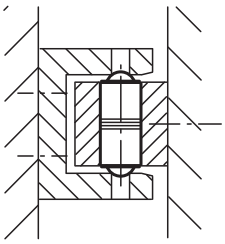


Material:
Body in brass, balls and spring in stainless steel

Type:
Balls hardened, natural finish

Part Number Example:
K0337.10

Drawing reference:
1) knurl



KIPP Spring Plungers smooth surface, double-sided, metric

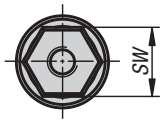
Item No.	D	D1	D2	L	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0337.04	4	3	4,05	10	0,9	3	7
K0337.05	5	4	5,05	12	1,2	4	8
K0337.06	6	5	6,05	16	1,6	6	10
K0337.08	8	6	8,05	20	2	8	12
K0337.10	10	8	10,05	24	2,9	10	16

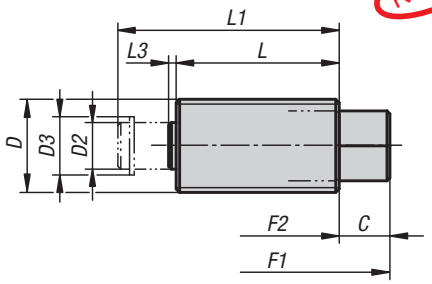
Spring Plungers push-pull

New Item

with rotation lock

METRIC Parts





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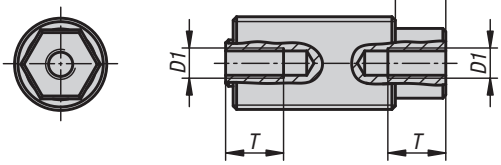

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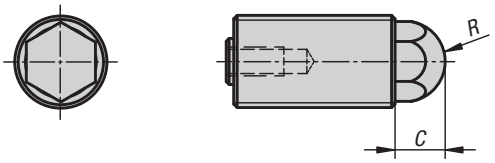

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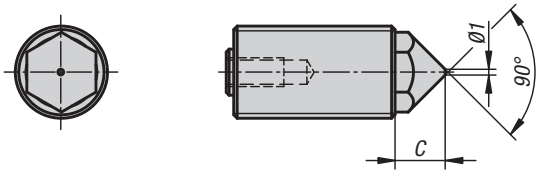


Material:
Steel.

Type:
Threaded sleeve galvanized, blue chromate.
Threaded pin case-hardened, black-oxidized.
Standard spring force, reinforced spring force.

Part Number Example:
K0997.1112

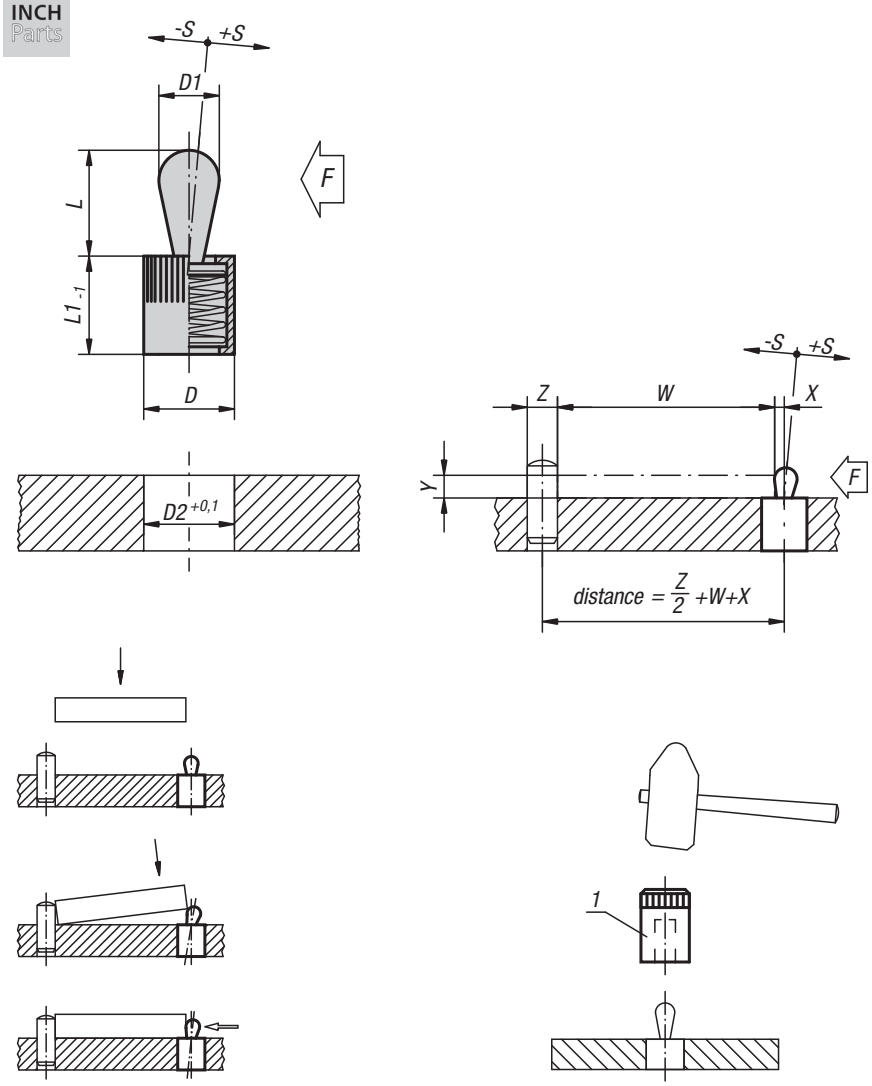
Note:
The push-pull spring plungers, also called two-way spring plungers are used to engage, position or clamp various components. The threaded pin, which is locked against rotation by the hexagonal form can be used for traction or thrust.

KIPP Push-Pull spring plungers with rotation lock, metric

Item No.	Style	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
K0977.1212	I	heavy spring force	M12x1,5	8	M4	5,5	6,78	20	60	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
K0977.1216	I	heavy spring force	M16x1,5	12	M5	8	10	35	103	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
K0977.1220	I	heavy 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
K0977.2212	H	heavy spring force	M12x1,5	8	M4	5,5	6,78	20	60	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
K0977.2216	H	heavy spring force	M16x1,5	12	M5	8	10	35	103	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
K0977.2220	H	heavy 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
K0977.3212	K	heavy spring force	M12x1,5	8	M4	5,5	6,78	20	60	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
K0977.3216	K	heavy spring force	M16x1,5	12	M5	8	10	35	103	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
K0977.3220	K	heavy spring force	M20x1,5	15	M6	10	12,2	60	175	10,3	34	47	2,7	-	12

Lateral Spring Plungers

INCH Parts



Material:
Body in aluminum.
Spring in steel.
Pressure pin in steel or in POM.

Type:
Pressure pin (steel) hardened and galvanized.
Body blue galvanized.

Part Number Example:
K0368.21034CM

Note:
Lateral spring plungers are for positioning, clamping, holding and fastening of workpieces during engraving, labelling, drilling, reaming, tapping, honing, grinding, welding, soldering, tooling, assembling, etc.
Eccentric bushings for adustment are also available.

Dimensions W and Z are according to customer specifications.

Drawing reference:
1) assembly tool

KIPP Lateral Spring Plungers without seal, pressure pin and spring in steel, inch

Item No.	D	D1	L	L1	D2	±S	F approx. 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	Item No. assembly tool
K0368.21034CM	1/4	3	4	7	1/4	0,5	10	0,8	1	1	1	1	1	K0369.03CM
K0368.21036CM	1/4	3	4	7	1/4	0,5	20	0,8	1	1	1	1	1	K0369.03CM
K0368.21038CM	1/4	3	4	7	1/4	0,5	40	0,8	1	1	1	1	1	K0369.03CM
K0368.21054CU	7/16	5	6,7	11	7/16	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05CU
K0368.21056CU	7/16	5	6,7	11	7/16	0,8	50	-	1,5	1,7	1,7	1,7	1,7	K0369.05CU
K0368.21058CU	7/16	5	6,7	11	7/16	0,8	100	-	1,5	1,7	1,7	1,7	1,7	K0369.05CU
K0368.21064CU	7/16	6	10,7	11	7/16	1	40	-	-	-	1,7	1,9	1,9	K0369.05CU
K0368.21066CU	7/16	6	10,7	11	7/16	1	75	-	-	-	1,7	1,9	1,9	K0369.05CU
K0368.21068CU	7/16	6	10,7	11	7/16	1	150	-	-	-	1,7	1,9	1,9	K0369.05CU
K0368.21084CP	1/2	8	13,9	13	1/2	1,3	50	-	-	-	-	2,5	2,7	K0369.08CP
K0368.21086CP	1/2	8	13,9	13	1/2	1,3	100	-	-	-	-	2,5	2,7	K0369.08CP
K0368.21088CP	1/2	8	13,9	13	1/2	1,3	200	-	-	-	-	2,5	2,7	K0369.08CP
K0368.21104CQ	5/8	10	16,7	17	5/8	1,6	100	-	-	-	-	-	3,1	K0369.10CQ
K0368.21106CQ	5/8	10	16,7	17	5/8	1,6	200	-	-	-	-	-	3,1	K0369.10CQ
K0368.21108CQ	5/8	10	16,7	17	5/8	1,6	300	-	-	-	-	-	3,1	K0369.10CQ

Lateral Spring Plungers

KIPP Lateral Spring Plungers with seal, pressure pin and spring in steel, inch

Item No.	D	D1	L	L1	D2	±S	F approx. 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	Item No. assembly tool
K0368.22034CM	1/4	3	4	7	1/4	0,5	10	0,8	1	1	1	1	1	K0369.03CM
K0368.22036CM	1/4	3	4	7	1/4	0,5	20	0,8	1	1	1	1	1	K0369.03CM
K0368.22038CM	1/4	3	4	7	1/4	0,5	40	0,8	1	1	1	1	1	K0369.03CM
K0368.22054CU	7/16	5	6	12	7/16	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05CU
K0368.22056CU	7/16	5	6	12	7/16	0,8	50	-	1,5	1,7	1,7	1,7	1,7	K0369.05CU
K0368.22058CU	7/16	5	6	12	7/16	0,8	100	-	1,5	1,7	1,7	1,7	1,7	K0369.05CU
K0368.22064CU	7/16	6	10	12	7/16	1	40	-	-	-	1,7	1,9	1,9	K0369.05CU
K0368.22066CU	7/16	6	10	12	7/16	1	75	-	-	-	1,7	1,9	1,9	K0369.05CU
K0368.22068CU	7/16	6	10	12	7/16	1	150	-	-	-	1,7	1,9	1,9	K0369.05CU
K0368.22084CP	1/2	8	13	14	1/2	1,3	50	-	-	-	-	2,5	2,7	K0369.08CP
K0368.22086CP	1/2	8	13	14	1/2	1,3	100	-	-	-	-	2,5	2,7	K0369.08CP
K0368.22088CP	1/2	8	13	14	1/2	1,3	200	-	-	-	-	2,5	2,7	K0369.08CP
K0368.22104CQ	5/8	10	16	18	5/8	1,6	100	-	-	-	-	-	3,1	K0369.10CQ
K0368.22106CQ	5/8	10	16	18	5/8	1,6	200	-	-	-	-	-	3,1	K0369.10CQ
K0368.22108CQ	5/8	10	16	18	5/8	1,6	300	-	-	-	-	-	3,1	K0369.10CQ

KIPP Lateral Spring Plungers without seal, pressure pin in POM, spring in steel, inch

Item No.	D	D1	L	L1	D2	±S	F approx. 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	Item No. assembly tool
K0368.71034CM	1/4	3	4	7	1/4	0,5	10	0,8	1	1	1	1	1	K0369.03CM
K0368.71054CU	7/16	5	6,7	11	7/16	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05CU
K0368.71064CU	7/16	6	10,7	11	7/16	1	40	-	-	-	1,7	1,9	1,9	K0369.05CU
K0368.71084CP	1/2	8	13,9	13	1/2	1,3	50	-	-	-	-	2,5	2,7	K0369.08CP
K0368.71104CQ	5/8	10	16,7	17	5/8	1,6	100	-	-	-	-	-	3,1	K0369.10CQ

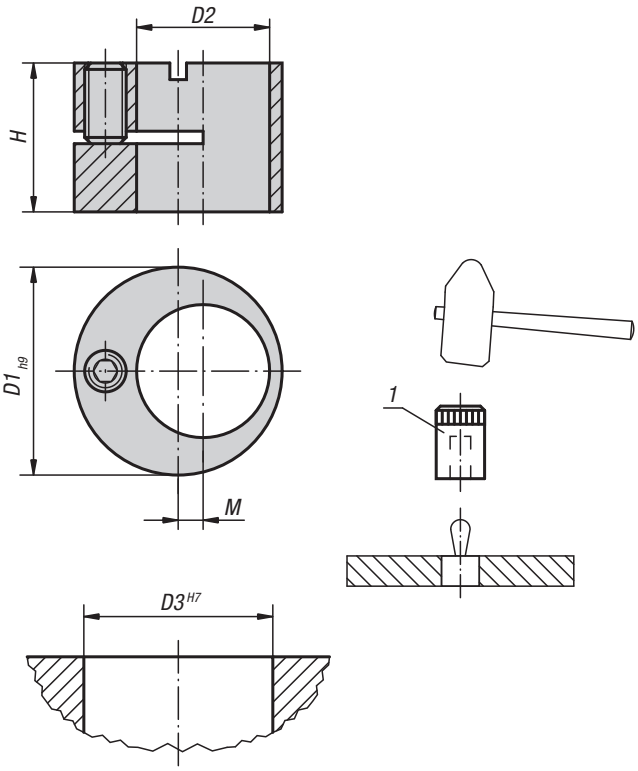
KIPP Lateral Spring Plungers with seal, pressure pin in POM, spring in steel, inch

Item No.	D	D1	L	L1	D2	±S	F approx. 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	Item No. assembly tool
K0368.72034CM	1/4	3	4	7	1/4	0,5	10	0,8	1	1	1	1	1	K0369.03CM
K0368.72054CU	7/16	5	6	12	7/16	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05CU
K0368.72064CU	7/16	6	10	12	7/16	1	40	-	-	-	1,7	1,9	1,9	K0369.05CU
K0368.72084CP	1/2	8	13	14	1/2	1,3	50	-	-	-	-	2,5	2,7	K0369.08CP
K0368.72104CQ	5/8	10	16	18	5/8	1,6	100	-	-	-	-	-	3,1	K0369.10CQ

Eccentric Bushings and assembly tools

for lateral spring plungers

INCH Parts



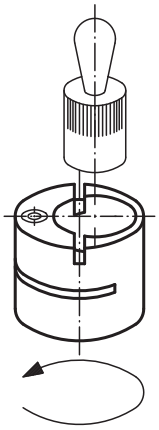
Material:
Steel.

Type:
Black oxide finish.

Part Number Example:
K0369.03CM

Note:
Eccentric Bushings enable Lateral Spring Plungers to be positioned exactly to the workpiece.

Drawing reference:
1) assembly tool



KIPP Assembly tools, inch

Item No.	Suitable for Lateral Spring Plungers with D =
K0369.03CM	1/4
K0369.05CU	7/16
K0369.08CP	1/2
K0369.10CQ	5/8

KIPP Eccentric Bushings for lateral spring plungers, inch

Item No.	D1	D2	D3	H	M	Suitable for Lateral Spring Plungers with D =
K0369.120CM	1/2	1/4	1/2	9,9	2	1/4
K0369.160CU	11/16	7/16	11/16	11,9	2	7/16
K0369.180CP	3/4	1/2	3/4	13,9	2	1/2
K0369.250CQ	1	5/8	1	17,9	3	5/8

Notes:

Reference Table - Conversion of Measurements

Pressure		
From	**To**	**Conversion**
psi	Kilopond/cm² (kp/cm²)	psi x 0.07031 = kp/cm²
Kilopond/cm² (kp/cm²)	psi	kp/cm² x 14.22 = psi
psi	Bar	psi x 0.07 = Bar
Bar	psi	Bar x 14.29 = psi

Linear Measure		
From	**To**	**Conversion**
Inch (in)	Millimeter (mm)	in x 25.4 = mm
Millimeter (mm)	Inch (in)	mm x 0.03937 = in
Inch	Millimeter (mm)	Inch x 25.4 = mm
Millimeter (mm)	Inch	mm x 0.03937 = Inch
Foot	Meter (m)	Foot x 0.3048 = m
Meter (m)	Foot	m x 3.281 = Foot
Yard	Meter (m)	Yard x 0.9144 = m
Meter (m)	Yard	m x 1.0936 = Yard
Miles (mls)	Kilometer (km)	mls x 1.609 = km
Kilometer (km)	Miles (mls)	km x 0.622 = mls

Forces		
From	**To**	**Conversion**
Pounds (lbs)	Newton (N)	lbs x 4.45 = N
Newton (N)	Pounds (lbs)	N x 0.225 = lbs
PS (horsepower)	Kilowatt (kW)	PS x 0.735 = kW
Kilowatt (kW)	PS (horsepower)	kW x 1.36 = PS

Weights		
From	**To**	**Conversion**
Pounds (lbs)	Kilopond/cm² (kp/cm²)	lbs x 0.45 = kp/cm²
Kilopond/cm² (kp/cm²)	Pounds (lbs)	kp/cm² x 2.2 = lbs
Ounces (oz)	Gramm (g)	oz x 28 = g
Gramm (g)	Ounces (oz)	g x 0.035 = oz
Pounds (lbs)	Kilogramm (kg)	lbs x 0.4536 = kg
Kilogramm (kg)	Pounds (lbs)	kg x 2.205 = lbs

Torque		
From	**To**	**Conversion**
Foot-pounds (ft-lbs)	Newton-Meter (Nm)	ft/lbs x 1.35 = Nm
Newton-Meter (Nm)	Foot-pounds (ft-lbs)	Nm x 0.74 = ft/lbs
Newton-Meter (Nm)	Kilopond/cm (kp/cm)	Nm x 0.102 = kp/cm

General Information about:

KIPP Clamping Tools

KIPP Operating Parts

Novo·Grip

Sympa Touch

KIPP Machine and Jig Devices

Materials:
POM = Polyoxymethylene - Delrin®
Deviating from the standard design, other materials and quality classes are available on request.

Surface finishes:
Other surface finishes are available at additional cost, e.g. matte-finished or high-polish chromium-plated steel parts.
Other colors are also available on request for plastic coatings or molded plastic parts.

Threads:
Threads are manufactured to ISO DIN 13 medium tolerance class, i.e. 6H for nut threads and 6g for bolt threads. External threads up to 60 mm are generally supplied fully threaded. Screw lengths of 70 mm and more are supplied with 60 mm long threads.

Threads of aluminum grips:
Especially threads of aluminum grips cannot be true to gauge size due to final surface finish refinement and the removal of material during related pretreatment.
The majority of these threads are moulded in order to strengthen the material. As a result, the tearing resistance of aluminum for a thread with M5x10 is higher than 2000 N.

Special versions:
KIPP Clamp and Tension Levers can also be supplied on request with predrilled inserts, locating holes, locating bolts for pinning and other thread ends to DIN 78 (except for flat point) and to DIN 6332.

As a basic rule, you can rely on us as a competent partner for your daily clamping needs. We are always happy to advise you.

Thread Pitch Chart:

Metric Coarse Thread:	Metric Fine Thread:
M3 X 0.5	M3 X 0.35
M4 X 0.7	M4 X 0.50
M5 X 0.8	M5 X 0.50
M6 X 1.0	M6 X 0.75
M8 X 1.25	M8 X 1.00
M10 X 1.5	M10 X 1.25
M12 X 1.75	M12 X 1.50
M14 X 2.00	M14 X 1.50
M16 X 2.00	M16 X 1.50
M18 X 2.50	M18 X 1.5
M20 X 2.50	M20 X 1.5
M22 X 2.50	M24 X 1.5
M24 X 3.00	M24 X 2.0

Conversion Chart:

10mm = .39"
12mm = .47"
15mm = .59"
20mm = .79"
25mm = .98"
30mm = 1.18"
25mm = 1.38"
40mm = 1.57"
45mm = 1.77"
50mm = 1.97"
55mm = 2.17"
60mm = 2.36"
70mm = 2.76"
80mm = 3.15"
90mm = 3.54"

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