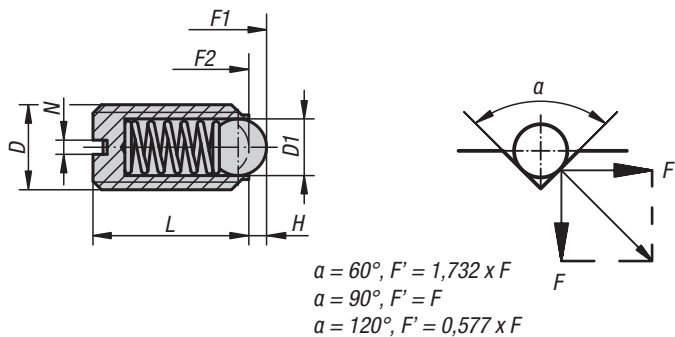


Spring Plungers

ball style, slotted, steel

INCH
Parts

METRIC
Parts



Material:

Body in steel quality class 5.8.

Ball steel.

Spring in spring steel class D.

Type:

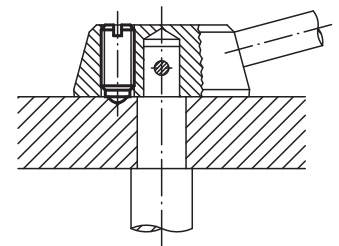
Black oxide finish.

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.AG	8-36	2.5	9	0.8	0.6	4	10
K0309.AE	8-32	2.5	9	0.8	0.6	4	10
K0309.A1	10-32	3	12	0.9	0.8	6	11
K0309.AJ	1/4-28	3.5	14	1	1	9	13
K0309.A2	1/4-20	3.5	14	1	1	9	13
K0309.A3	5/16-18	5	16	1.5	1.2	15	30
K0309.A4	3/8-16	6	19	2	1.6	20	35
K0309.A5	1/2-13	8	22	2.5	2	30	55
K0309.A6	5/8-11	10	24	3.5	2.5	65	125

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

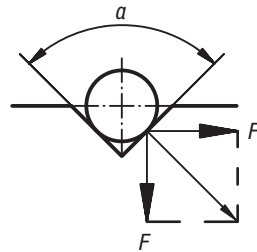
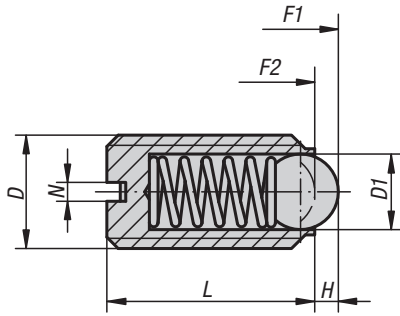
Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.03	M3	1,5	7	0,4	0,4	1,5	3
K0309.04	M4	2,5	9	0,8	0,6	4	10
K0309.05	M5	3	12	0,9	0,8	6	11
K0309.06	M6	3,5	14	1	1	9	13
K0309.08	M8	5	16	1,5	1,2	15	30
K0309.10	M10	6	19	2	1,6	20	35
K0309.12	M12	8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

with recess and ceramic ball, stainless steel



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

Material:

Body 1.4305.
Ceramic ball Si_3N_4 .
Spring 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 with recess and ceramic ball, 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 1.4305.
Ceramic ball Si_3N_4 .
Spring 1.4310.

Type:

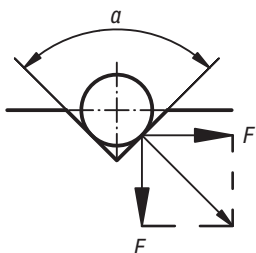
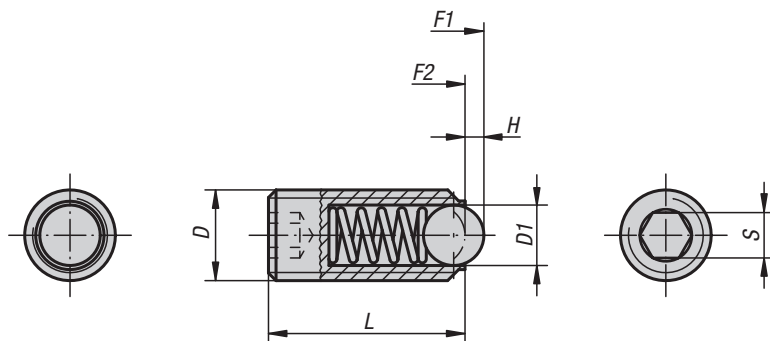
Natural finish.

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.

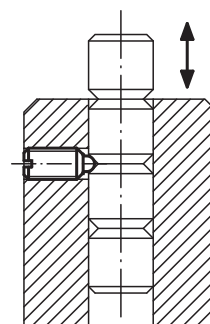


$$\alpha = 60^\circ, F' = 1,732 \times F$$

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

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

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



Material:

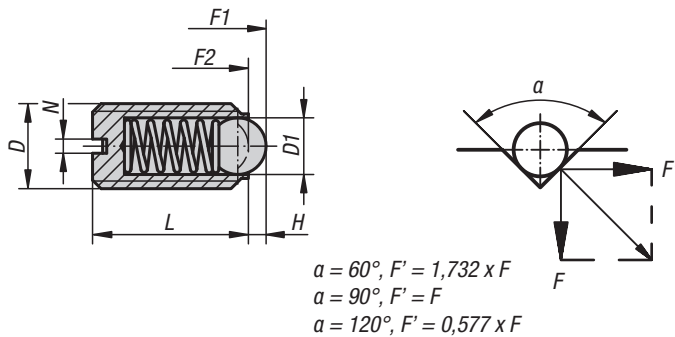
Body in stainless steel 1.4305;
ball in stainless steel 1.4034;
spring in stainless steel 1.4310

Type:

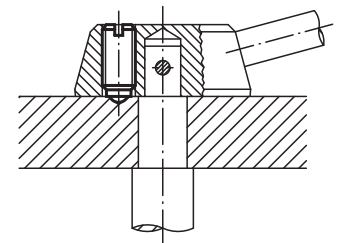
Natural finish. Ball hardened.

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

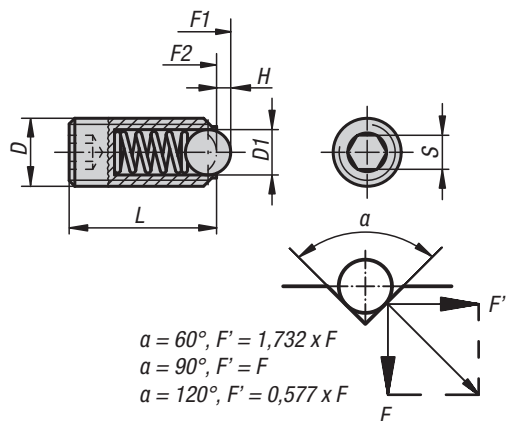
Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.203	M3	1,5	7	0,4	0,4	5	7
K0310.204	M4	2,5	9	0,8	0,6	12	22
K0310.205	M5	3	12	0,9	0,8	19	30
K0310.206	M6	3,5	14	1	1	28	40
K0310.208	M8	5	16	1,5	1,2	47	73
K0310.210	M10	6	19	2	1,6	66	100
K0310.212	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:

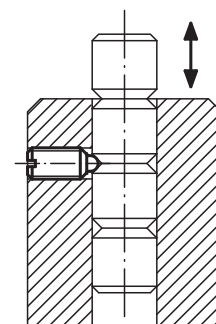
Black oxide finish.

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

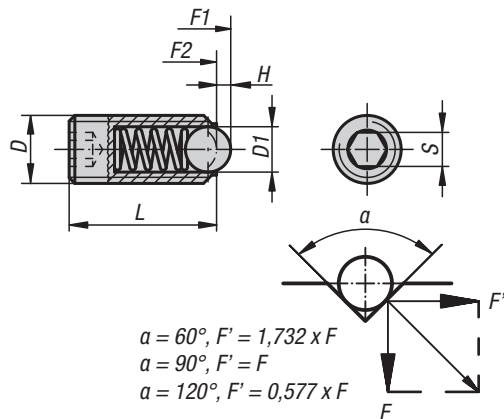
Item No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.03	M3	1,5	9	0,4	1,5	1,5	3
K0315.04	M4	2,5	10	0,8	2	4	10
K0315.05	M5	3	14	0,9	2,5	6	11
K0315.06	M6	3,5	15	1	3	9	13
K0315.08	M8	5	18	1,5	4	15	30
K0315.10	M10	6	23	2	5	20	35
K0315.12	M12	8	26	2,5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

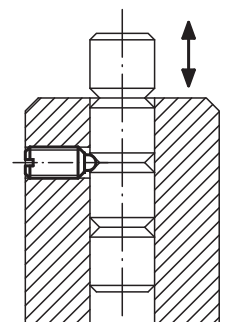
Type:

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:

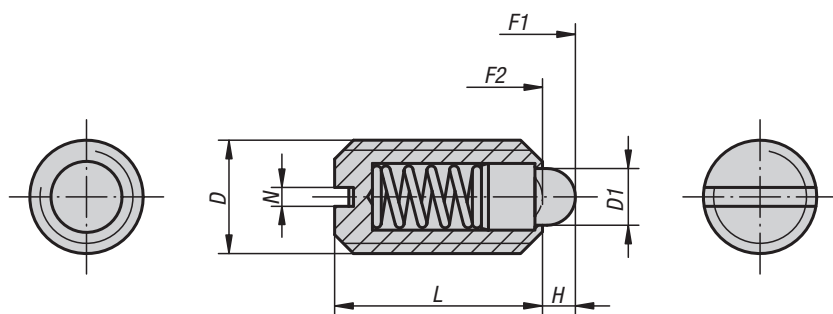
Body in steel quality class 5.8.
Pressure pin in steel.
Spring in spring steel class D.

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

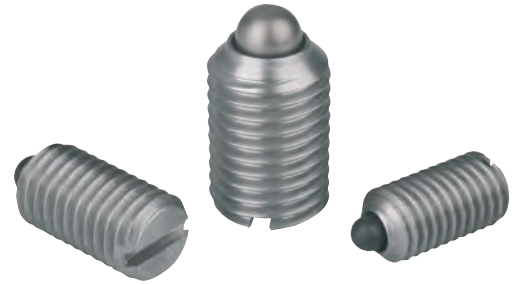
Item No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.04	M4	1,8	9	1,5	0,6	6	20
K0313.05	M5	2,4	12	2	0,8	6	20
K0313.06	M6	2,7	14	2	1	7	20
K0313.08	M8	4	16	2	1,2	15	30
K0313.10	M10	4,5	19	2,5	1,6	20	35
K0313.12	M12	6	22	3,5	2	30	55
K0313.16	M16	8,5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



Material:

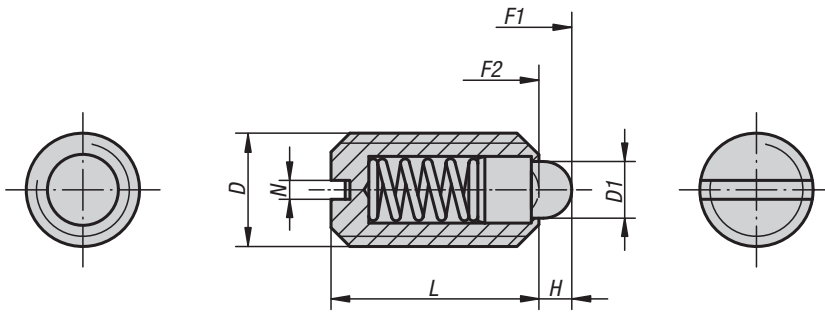
Body in stainless steel 1.4305;
pressure pin in stainless steel 1.4034;
spring in stainless steel 1.4310

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

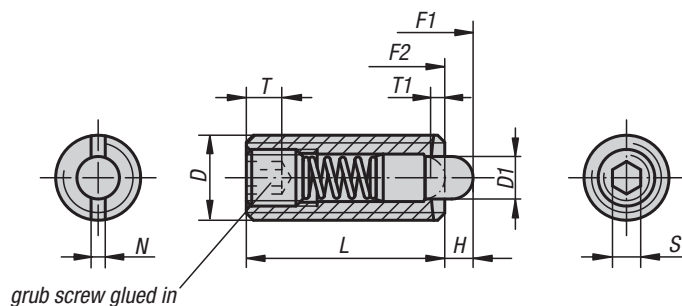
KIPP Spring Plungers, pin style, slotted, stainless steel, light end pressure, metric

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.

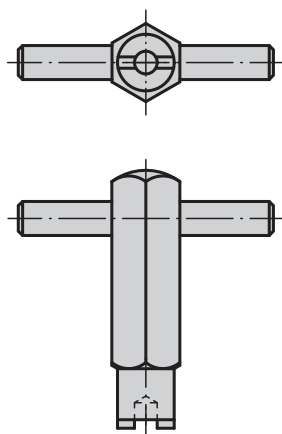
Type:

Black oxide finish.
Pressure pin hardened.

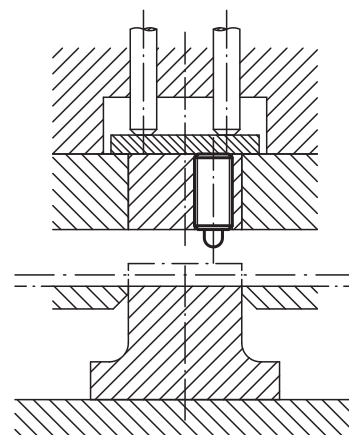
Part Number Example:

K0317.AD

Assembly Key



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	.035	0.5	3	K0317.903
K0317.AG	8-36	1.5	15	1.5	2	0.6	0.6	.050	5	16	K0317.904
K0317.AE	8-32	1.5	15	1.5	2	0.6	0.6	.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	.050	2	7	K0317.904
K0317.1AE	8-32	1.5	15	1.5	2	0.6	0.6	.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

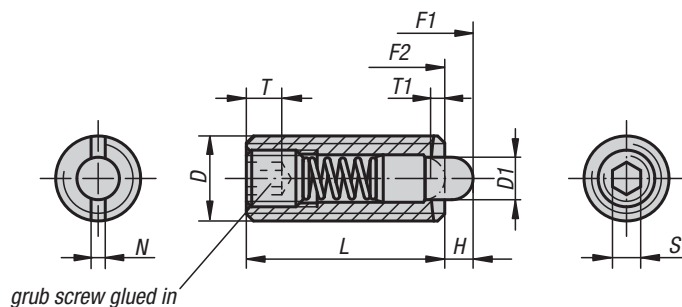
KIPP Spring Plungers, pin style, hexagon socket, steel pin, heavy end pressure, inch

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.

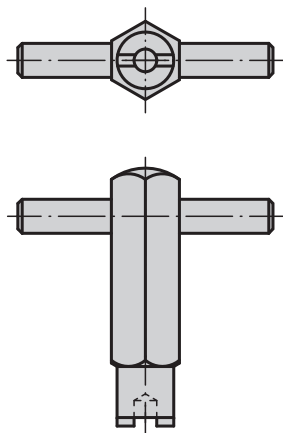
Type:

Black oxide finish.
Pressure pin hardened.

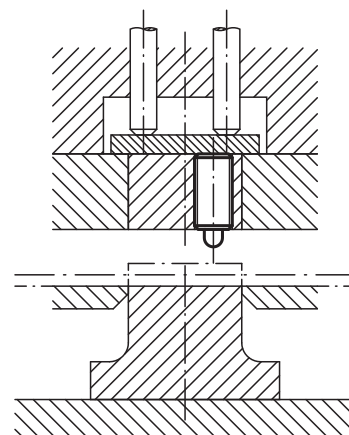
Part Number Example:

K0317.03

Assembly Key



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:

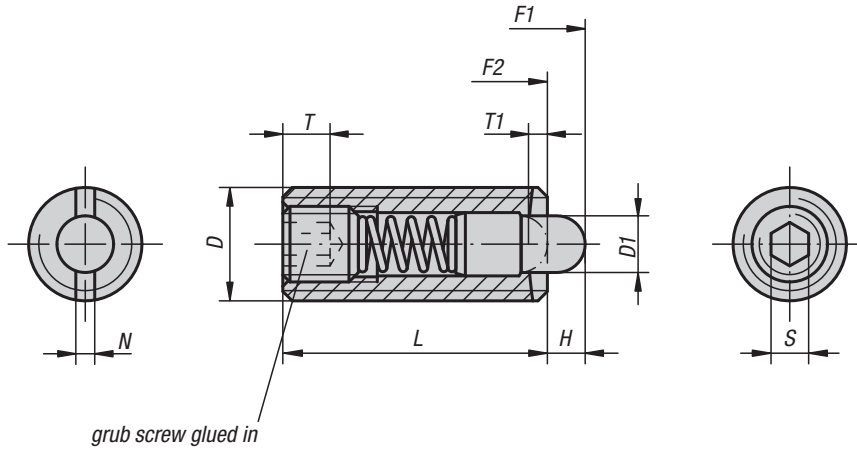
Body steel quality class 5.8.
Pressure pin POM.
Spring spring steel class D.

Type:

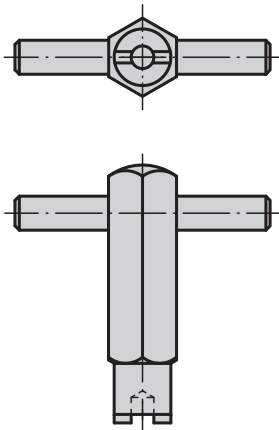
Black oxide finish.

Part Number Example:

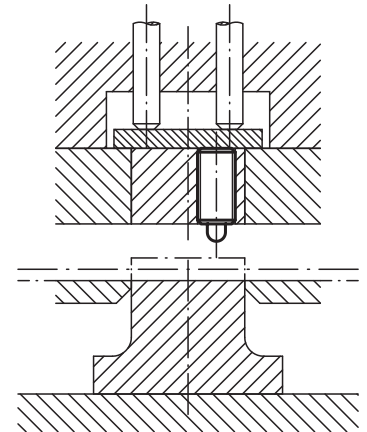
K0318.AD



Assembly Key



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	.035	.5	3	K0317.903
K0318.AG	8-36	1.5	15	1.5	2	0.6	0.6	.050	5	16	K0317.904
K0318.AE	8-32	1.5	15	1.5	2	0.6	0.6	.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	.050	2	7	K0317.904
K0318.1AE	8-32	1.5	15	1.5	2	0.6	0.6	.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:

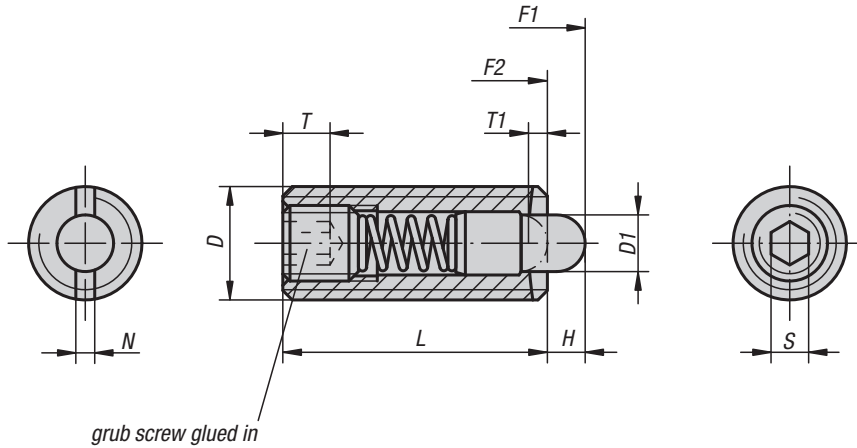
Body in stainless steel 1.4305;
pressure pin in stainless steel 1.4034;
spring in stainless steel 1.4310

Type:

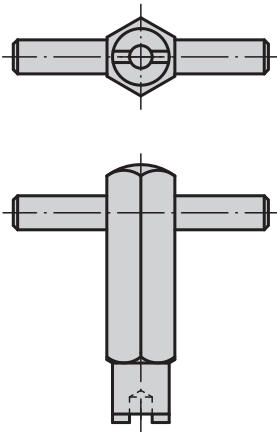
Body natural finish,
pressure pin hardened

Part Number Example:

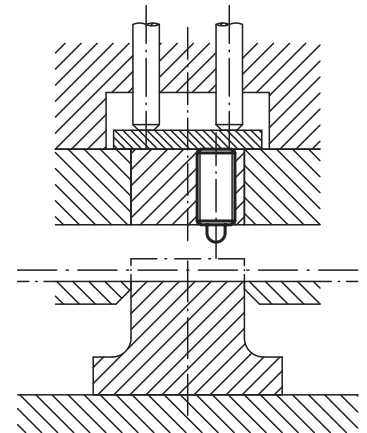
K0319.AG



Assembly Key



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	.050	5	16	K0317.904
K0319.AE	8-32	1.5	15	1.5	2	0.6	0.6	.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

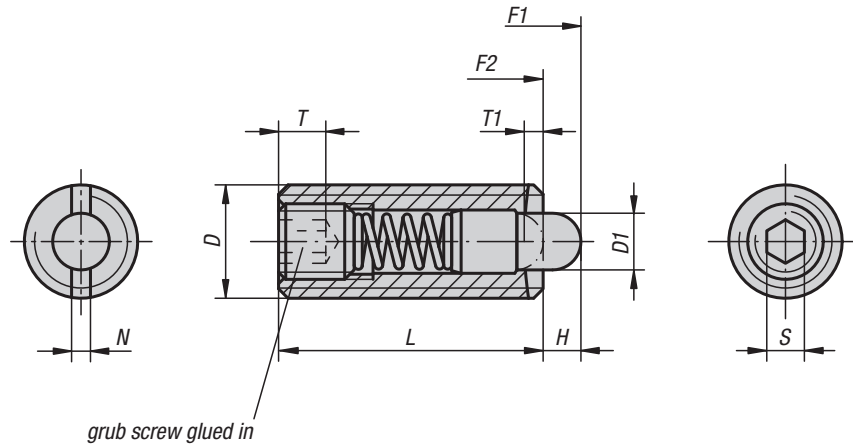
Item No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Item No. Assembly key
K0319.03	M3	1	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0319.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0319.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	5	17	K0317.905
K0319.06	M6	2,7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

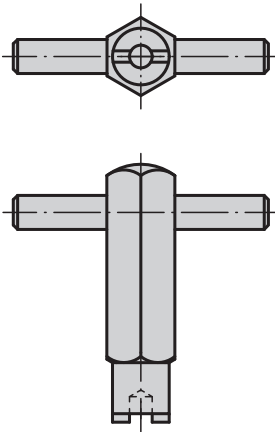
Type:

Natural finish.

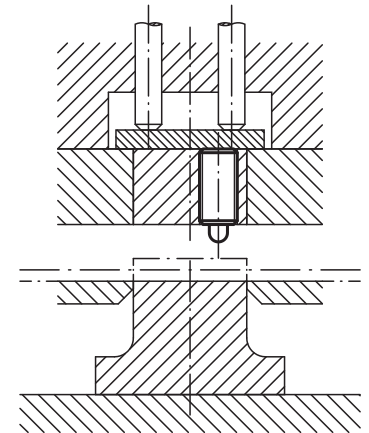
Part Number Example:

K0320.A6

Assembly Key



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	.050	5	16	K0317.904
K0320.AE	8-32	1.5	15	1.5	2	0.6	0.6	.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

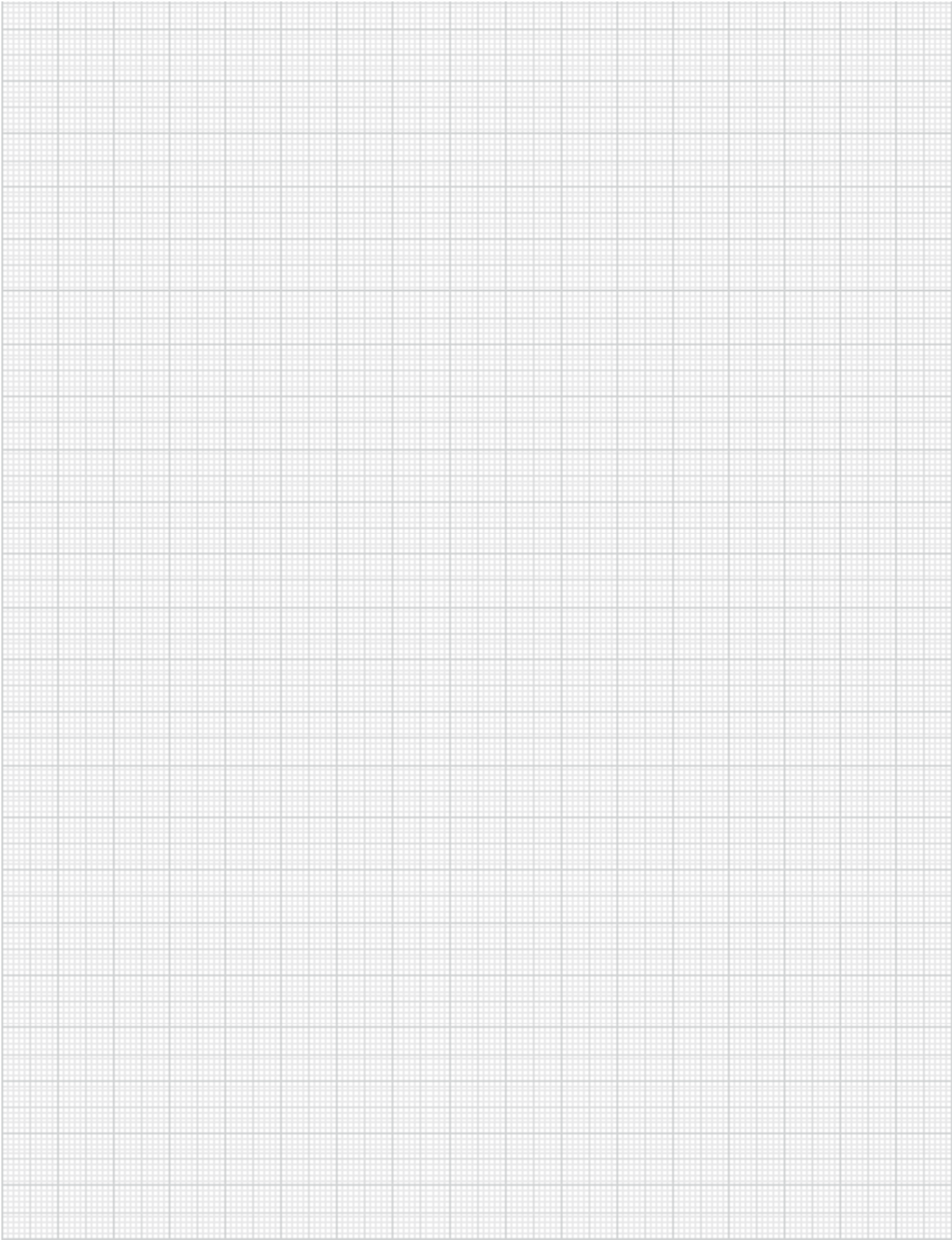
Spring Plungers

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

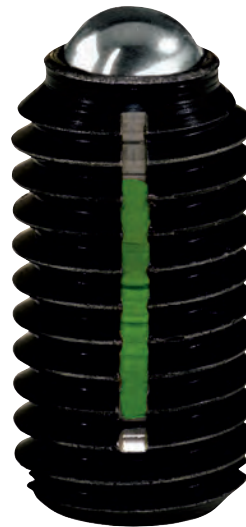
Notes:



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



Material:

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

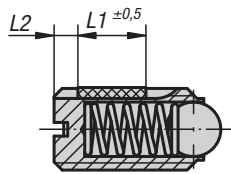
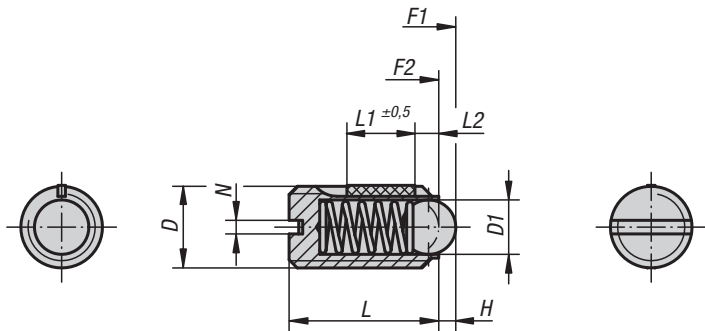
LONG-LOK thread system nylon

Type:

Black oxide finish.
Ball hardened.

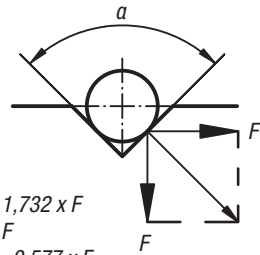
Part Number Example:

K0321.AD



applies to models with
D = M3, M4, M5 and M6
6-32, 8-36, 8-32, 10-32,
1/4-28, 1/4-20

L2 = approx. 2x thread pitch



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

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

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

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 third unscrewing approx. Nm
K0321.AD	6-32	1.5	7	4	0.4	0.4	1.5	3	0.10	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 third unscrewing approx. 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 third unscrewing approx. Nm
K0321.03	M3	1,5	7	4	0,4	0,4	1,5	3	0,10	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 third unscrewing approx. Nm
K0321.203	M3	1,5	7	4	0,4	0,4	5	7	0,10	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



Material:

Body 1.4305;
ball 1.4034;
spring 1.4310

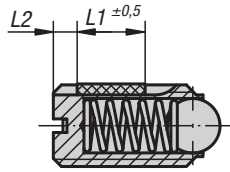
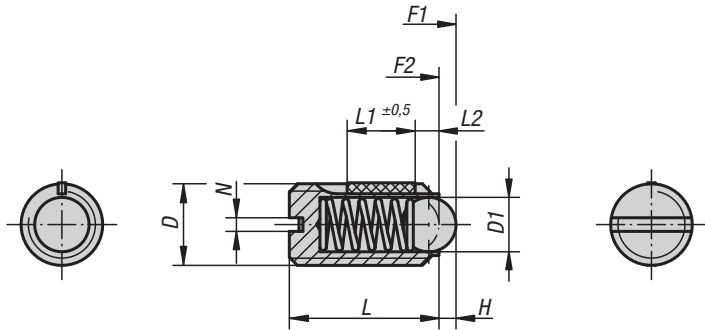
LONG-LOK thread system in nylon

Type:

Natural finish. Ball hardened.

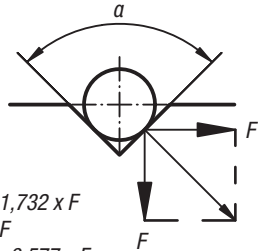
Part Number Example:

K0322.AD



applies to models with
D = M3, M4, M5 and M6
6-32, 8-36, 8-32, 10-32,
1/4-28, 1/4-20

L2 = approx. 2x thread pitch



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

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 third unscrewing approx. Nm
K0322.AD	6-32	1.5	7	4	0.4	0.4	1.5	3	0.10	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 third unscrewing approx. 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 third unscrewing approx. Nm
K0322.03	M3	1,5	7	4	0,4	0,4	1,5	3	0,10	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 third unscrewing approx. Nm
K0322.203	M3	1,5	7	4	0,4	0,4	5	7	0,10	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



Material:

Body in steel quality class 5.8.

Ball in steel.

Spring in spring steel class D.

LONG-LOK thread system nylon

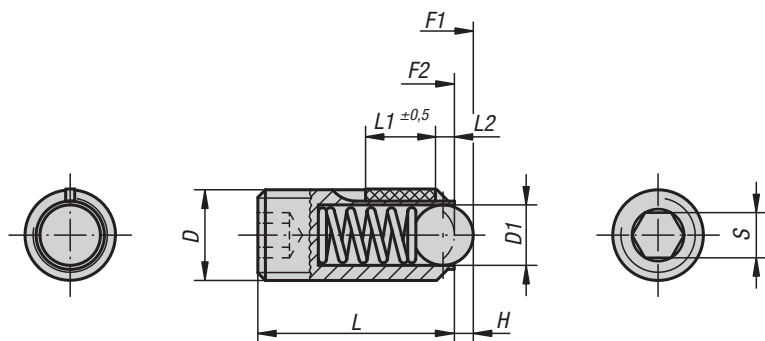
Type:

Black oxide finish.

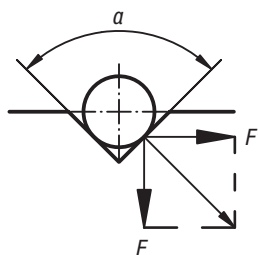
Ball hardened.

Part Number Example:

K0325.AJ



L2 = approx. 2x thread pitch



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

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

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

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 third unscrewing approx. 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	1.10	0.38
K0325.A4	3/8-16	6	23	9	2	3/16	20	35	1.30	0.60
K0325.A5	1/2-13	8	26	10	2.5	7/32	30	55	2.00	1.30
K0325.A6	5/8-11	10	33	14	3.5	5/16	65	125	3.90	3.00

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 third unscrewing approx. 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	1.10	0.38
K0325.2A4	3/8-16	6	23	9	2	3/16	66	100	1.30	0.60
K0325.2A5	1/2-13	8	26	10	2.5	7/32	66	120	2.00	1.30
K0325.2A6	5/8-11	10	33	14	3.5	5/16	90	180	3.90	3.00

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 third unscrewing approx. Nm
K0325.03	M3	1,5	9	4	0,4	1,5	1,5	3	0,10	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	1,10	0,38
K0325.10	M10	6	23	9	2	5	20	35	1,30	0,60
K0325.12	M12	8	26	10	2,5	6	30	55	2,00	1,30
K0325.16	M16	10	33	14	3,5	8	65	125	3,90	3,00

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 third unscrewing approx. Nm
K0325.203	M3	1,5	9	4	0,4	1,5	5	7	0,10	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	1,10	0,38
K0325.210	M10	6	23	9	2	5	66	100	1,30	0,60
K0325.212	M12	8	26	10	2,5	6	66	120	2,00	1,30
K0325.216	M16	10	33	14	3,5	8	90	180	3,90	3,00

Spring Plungers

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



Material:

Body 1.4305;
ball 1.4034;
spring 1.4310

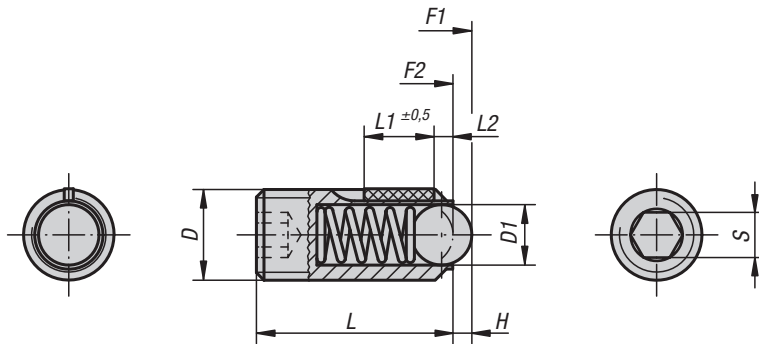
LONG-LOK thread system in nylon

Type:

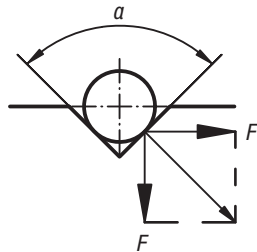
Natural finish. Ball hardened.

Part Number Example:

K0326.A2



L2 = approx. 2x thread pitch



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

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 third unscrewing approx. 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	1.10	0.38
K0326.A4	3/8-16	6	23	9	2	3/16	20	35	1.30	0.60
K0326.A5	1/2-13	8	26	10	2.5	7/32	30	55	2.00	1.30
K0326.A6	5/8-11	10	33	14	3.5	5/16	65	125	3.90	3.00

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 third unscrewing approx. 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	1.10	0.38
K0326.2A4	3/8-16	6	23	9	2	3/16	66	100	1.30	0.60
K0326.2A5	1/2-13	8	26	10	2.5	7/32	66	120	2.00	1.30
K0326.2A6	5/8-11	10	33	14	3.5	5/16	90	180	3.90	3.00

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 third unscrewing approx. Nm
K0326.03	M3	1,5	9	4	0,4	1,5	1,5	3	0,10	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	1,10	0,38
K0326.10	M10	6	23	9	2	5	20	35	1,30	0,60
K0326.12	M12	8	26	10	2,5	6	30	55	2,00	1,30
K0326.16	M16	10	33	14	3,5	8	65	125	3,90	3,00

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 third unscrewing approx. Nm
K0326.203	M3	1,5	9	4	0,4	1,5	5	7	0,10	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	1,10	0,38
K0326.210	M10	6	23	9	2	5	66	100	1,30	0,60
K0326.212	M12	8	26	10	2,5	6	66	120	2,00	1,30
K0326.216	M16	10	33	14	3,5	8	90	180	3,90	3,00

Spring Plungers

LONG-LOK, pin style, slotted, steel

INCH
Parts

METRIC
Parts



Material:

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

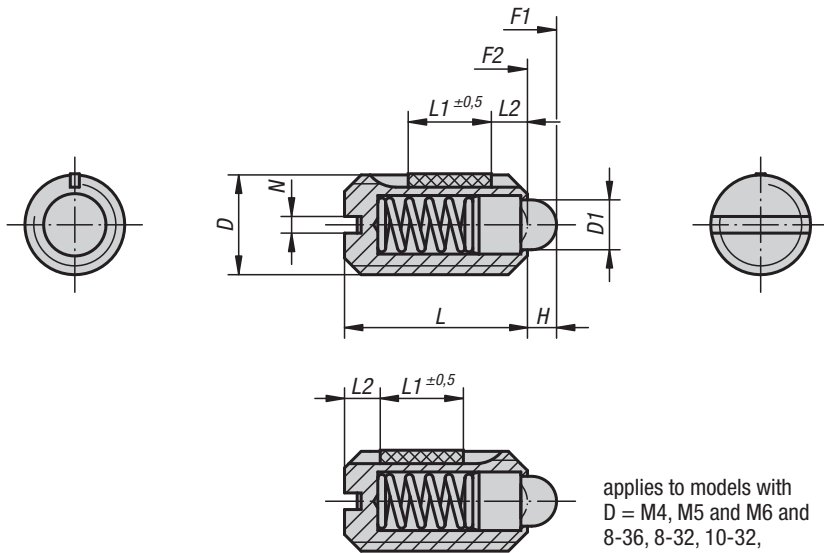
LONG-LOK thread system nylon.

Type:

Black oxide finish.
Pressure pin hardened.

Part Number Example:

K0323.AG



applies to models with
D = M4, M5 and M6 and
8-36, 8-32, 10-32,
1/4-28, 1/4-20

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 third unscrewing approx. 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	1.10	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 third unscrewing approx. 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	1.10	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

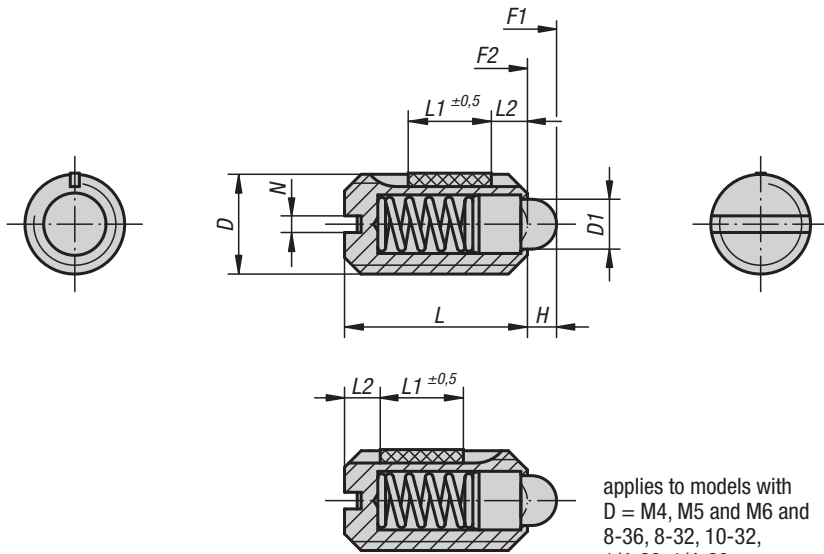
Item No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque, after third unscrewing approx. Nm
K0323.04	M4	1,8	9	5	1,5	0,6	6	20	0,18	0,12
K0323.05	M5	2,4	12	6	2	0,8	6	20	0,12	0,08
K0323.06	M6	2,7	14	7	2	1	7	20	0,44	0,21
K0323.08	M8	4	16	8	2	1,2	15	30	1,10	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 third unscrewing approx. Nm
K0323.104	M4	1,8	9	5	1,5	0,6	3	10	0,18	0,12
K0323.105	M5	2,4	12	6	2	0,8	3	10	0,12	0,08
K0323.106	M6	2,7	14	7	2	1	4	10	0,44	0,21
K0323.108	M8	4	16	8	2	1,2	7	15	1,10	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



applies to models with
D = M4, M5 and M6 and
8-36, 8-32, 10-32,
1/4-28, 1/4-20

L2 = approx. 2x thread pitch

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

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 third unscrewing approx. 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	1.10	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 third unscrewing approx. 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	1.10	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 third unscrewing approx. Nm
K0324.04	M4	1,8	9	5	1,5	0,6	6	20	0,18	0,12
K0324.05	M5	2,4	12	6	2	0,8	6	20	0,12	0,08
K0324.06	M6	2,7	14	7	2	1	7	20	0,44	0,21
K0324.08	M8	4	16	8	2	1,2	15	30	1,10	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

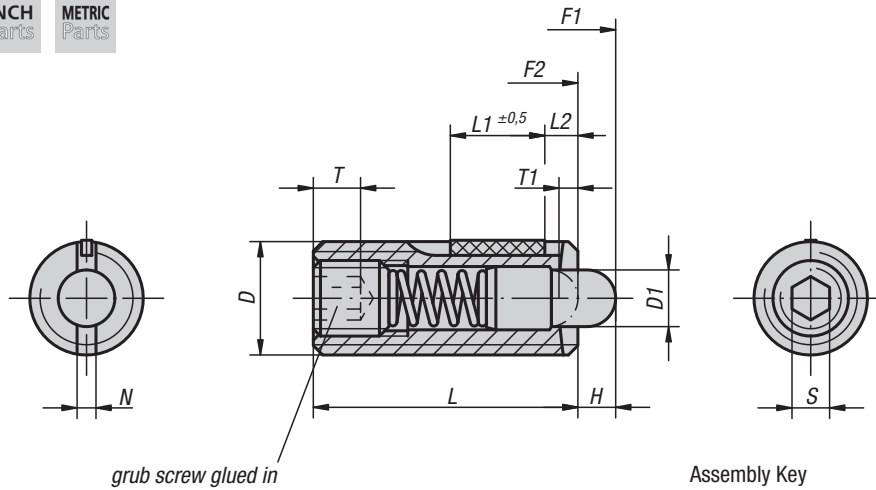
Item No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque, after third unscrewing approx. Nm
K0324.104	M4	1,8	9	5	1,5	0,6	3	10	0,18	0,12
K0324.105	M5	2,4	12	6	2	0,8	3	10	0,12	0,08
K0324.106	M6	2,7	14	7	2	1	4	10	0,44	0,21
K0324.108	M8	4	16	8	2	1,2	7	15	1,10	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

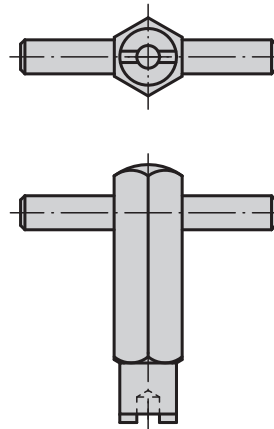
INCH
Parts

METRIC
Parts



L2 = approx. 2x thread pitch

Assembly Key



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

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 third unscrewing approx. 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	1.30	0.60	K0317.910
K0327.A5	1/2-13	6	28	10	4	5	2	2	5/32	12	55	2.00	1.30	K0317.912
K0327.A6	5/8-11	7.5	32	14	5	6	2.5	2.5	3/16	45	100	3.90	3.00	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 third unscrewing approx. 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	1.30	0.60	K0317.910
K0327.1A5	1/2-13	6	28	10	4	5	2	2	5/32	5	27	2.00	1.30	K0317.912
K0327.1A6	5/8-11	7.5	32	14	5	6	2.5	2.5	3/16	20	45	3.90	3.00	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 third unscrewing approx. 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	1.30	0.60	K0317.910
K0327.2A5	1/2-13	6	28	10	4	5	2	2	5/32	25	85	2.00	1.30	K0317.912
K0327.2A6	5/8-11	7.5	32	14	5	6	2.5	2.5	3/16	60	150	3.90	3.00	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 third unscrewing approx. 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	1,30	0,60	K0317.910
K0327.12	M12	6	28	10	4	5	2	2	4	12	55	2,00	1,30	K0317.912
K0327.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,90	3,00	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 third unscrewing approx. 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	1,30	0,60	K0317.910
K0327.112	M12	6	28	10	4	5	2	2	4	5	27	2,00	1,30	K0317.912
K0327.116	M16	7,5	32	14	5	6	2,5	2,5	5	20	45	3,90	3,00	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 third unscrewing approx. 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	1,30	0,60	K0317.910
K0327.212	M12	6	28	10	4	5	2	2	4	25	85	2,00	1,30	K0317.912
K0327.216	M16	7,5	32	14	5	6	2,5	2,5	5	60	150	3,90	3,00	K0317.916

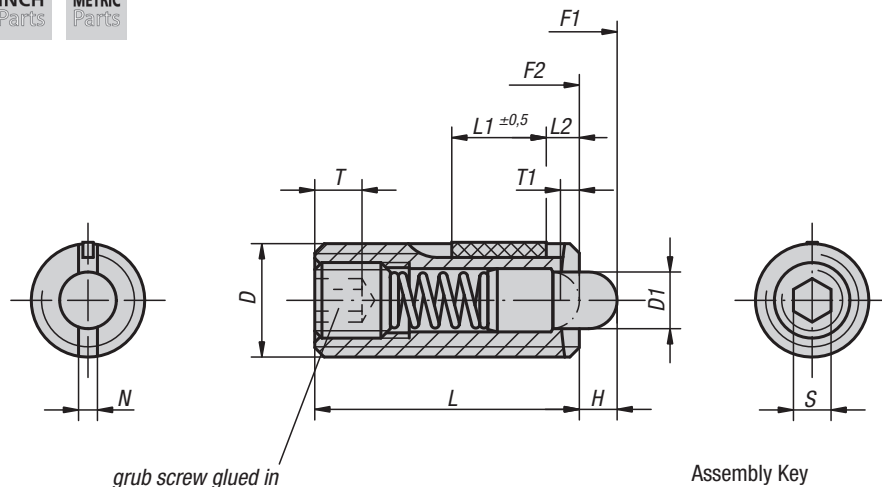
Spring Plungers

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



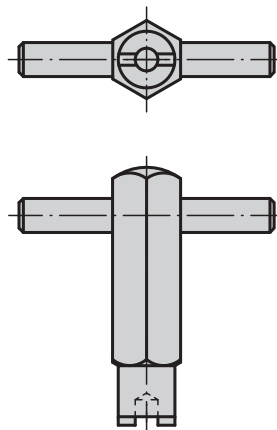
INCH
Parts

METRIC
Parts



L2 = approx. 2x thread pitch

Assembly Key



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

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 third unscrewing approx. 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	1.30	0.60	K0317.910
K0328.A5	1/2-13	6	28	10	4	5	2	2	5/32	10	55	2.00	1.30	K0317.912
K0328.A6	5/8-11	7.5	32	14	5	6	2.5	2.5	3/16	45	100	3.90	3.00	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 third unscrewing approx. 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	1.30	0.60	K0317.910
K0328.1A5	1/2-13	6	28	10	4	5	2	2	5/32	5	27	2.00	1.30	K0317.912
K0328.1A6	5/8-11	7.5	32	14	5	6	2.5	2.5	3/16	20	45	3.90	3.00	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 third unscrewing approx. 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	1,30	0,60	K0317.910
K0328.12	M12	6	28	10	4	5	2	2	4	12	55	2,00	1,30	K0317.912
K0328.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,90	3,00	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 third unscrewing approx. 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	1,30	0,60	K0317.910
K0328.112	M12	6	28	10	4	5	2	2	4	5	27	2,00	1,30	K0317.912
K0328.116	M16	7,5	32	14	5	6	2,5	2,5	5	20	45	3,90	3,00	K0317.916

Spring Plungers

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



Material:

Body 1.4305;
pressure pin 1.4034;
spring 1.4310

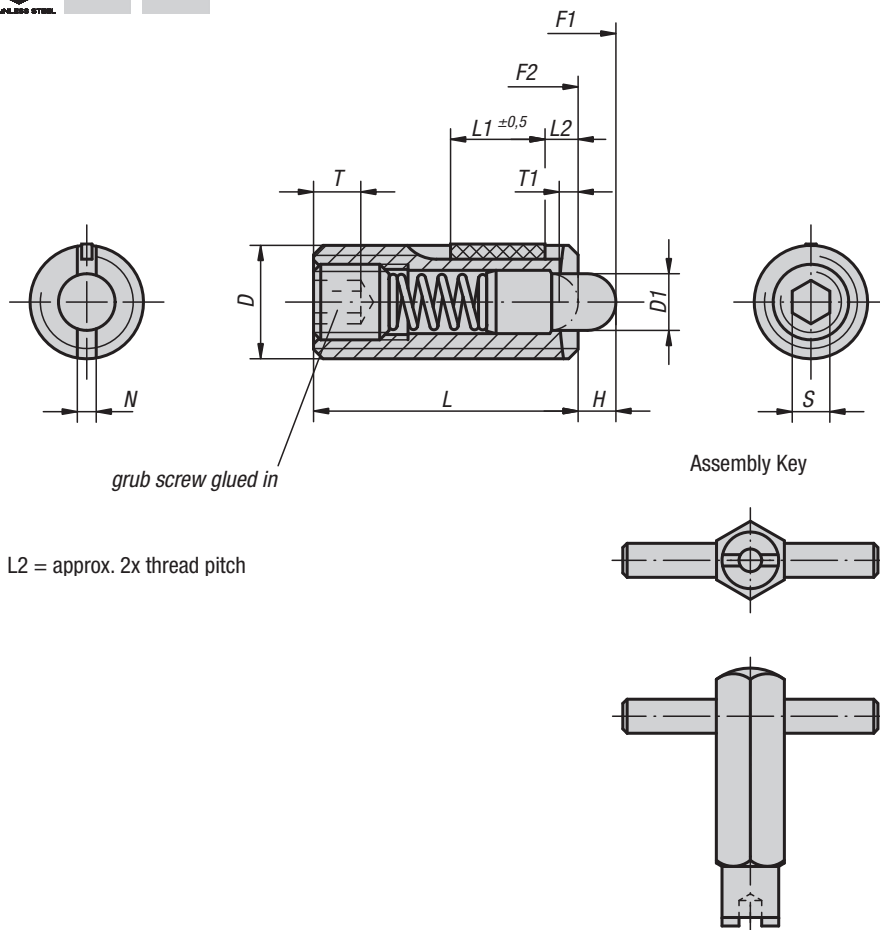
LONG-LOK thread system in nylon

Type:

Body natural finish,
pressure pin hardened

Part Number Example:

K0329.A1



grub screw glued in

Assembly Key

L2 = approx. 2x thread pitch

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

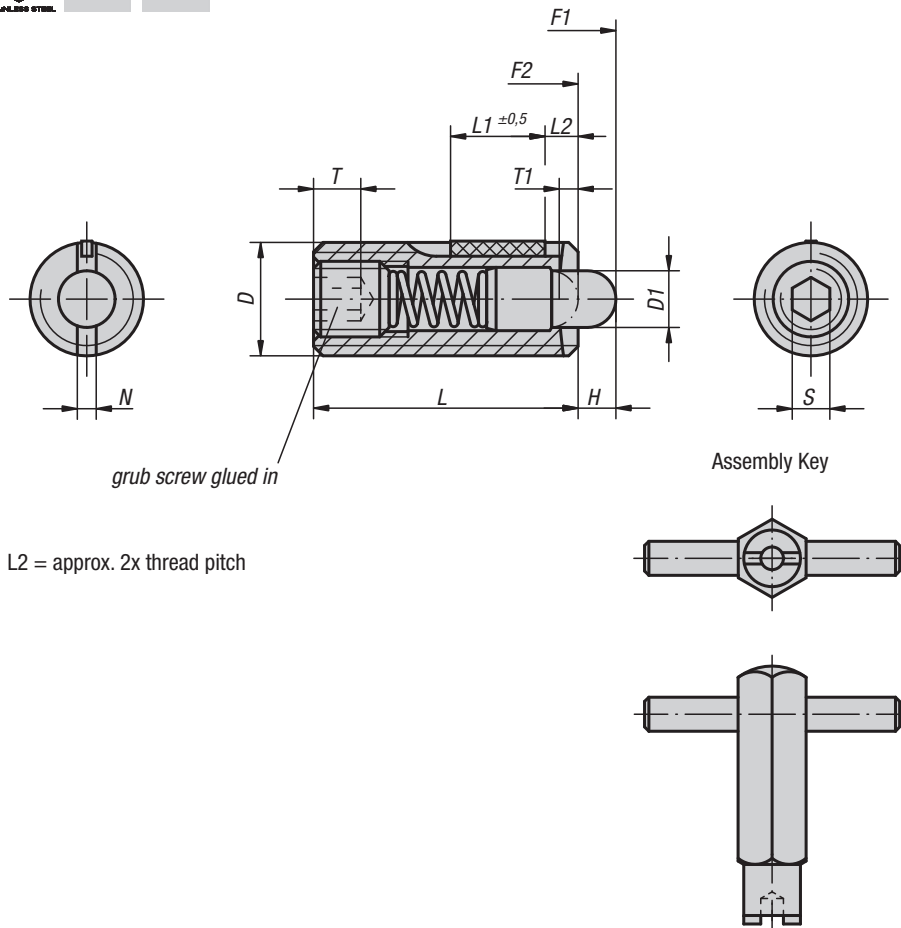
Item No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque, after third unscrewing approx. Nm	Item No. Assembly key
K0329.A1	10-32	2.4	18	7	2.3	2	0.8	0.8	1/16	5	17	0.12	0.08	K0317.905
K0329.AJ	1/4-28	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	1.30	0.60	K0317.910
K0329.A5	1/2-13	6	28	10	4	5	2	2	5/32	10	47	2.00	1.30	K0317.912
K0329.A6	5/8-11	7.5	32	14	5	6	2.5	2.5	3/16	45	100	3.90	3.00	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 third unscrewing approx. 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	1,30	0,60	K0317.910
K0329.12	M12	6	28	10	4	5	2	2	4	10	47	2,00	1,30	K0317.912
K0329.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,90	3,00	K0317.916

Spring Plungers

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



L2 = approx. 2x thread pitch



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

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 third unscrewing approx. 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	1.30	0.60	K0317.910
K0330.A5	1/2-13	6	28	10	4	5	2	2	5/32	10	47	2.00	1.30	K0317.912
K0330.A6	5/8-11	7.5	32	14	5	6	2.5	2.5	3/16	45	100	3.90	3.00	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 third unscrewing approx. 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	1,30	0,60	K0317.910
K0330.12	M12	6	28	10	4	5	2	2	4	10	47	2,00	1,30	K0317.912
K0330.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,90	3,00	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

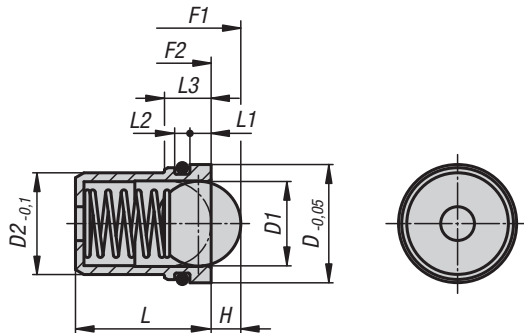
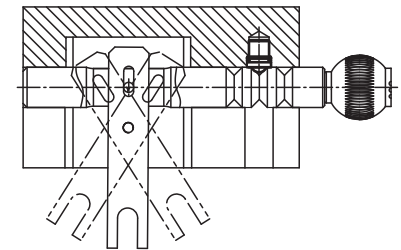
Part Number Example:

K0582.05

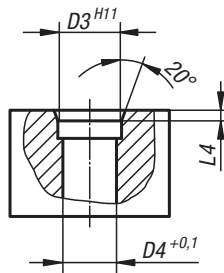
Note:

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.

Application Diagram:



Assembly dimensions



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:

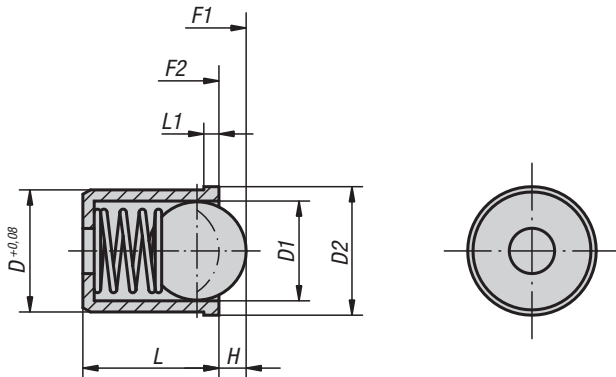
Body and spring in stainless steel.
Ball in stainless steel or in POM.

Type:

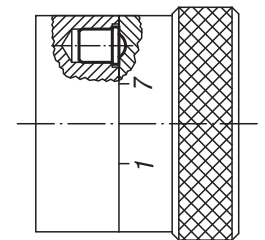
Body natural finish.
Ball hardened, natural finish.
Plastic ball white.

Part Number Example:

K0333.04



Application Diagram



KIPP Spring Plungers, push fit, stainless steel, metric

Item No.	Version	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0333.04	ball in stainless steel	4	3	4,6	5	1	0,8	3	7
K0333.05	ball in stainless steel	5	4	5,6	6	1	1	4	7
K0333.06	ball in stainless steel	6	5	6,5	7	1	1,5	6	12
K0333.08	ball in stainless steel	8	6,5	8,5	9	1	1,8	6	12
K0333.10	ball in stainless steel	10	8	12	13,5	2,5	2,7	10	20
K0333.12	ball in stainless steel	12	10	14	16	2,5	3,5	15	25

KIPP Spring Plungers, push fit, stainless steel, metric

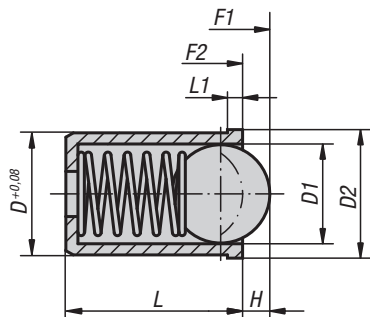
Item No.	Version	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0333.304	ball in POM	4	3	4,6	5	1	0,5	3	7
K0333.305	ball in POM	5	4	5,6	6	1	0,6	4	7
K0333.306	ball in POM	6	5	6,5	7	1	1,1	6	12
K0333.308	ball in POM	8	6,5	8,5	9	1	1,5	6	12
K0333.310	ball in POM	10	8	12	13,5	2,5	2,3	10	20
K0333.312	ball in POM	12	10	14	16	2,5	3,1	15	25

Spring Plungers

push fit extended, stainless steel



New Item



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.	Version	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0333.104	ball in stainless steel	4	3	4,6	9	1	0,8	12	22
K0333.105	ball in stainless steel	5	4	5,6	12	1	1	19	30
K0333.106	ball in stainless steel	6	5	6,5	14	1	1,5	22	40
K0333.108	ball in stainless steel	8	6	8,5	16	1	1,8	42	73
K0333.110	ball in stainless steel	10	8	12	22	2,5	2,7	54	100
K0333.112	ball in stainless steel	12	10	14	24	2,5	3,2	54	122
K0333.404	ball in POM	4	3	4,6	9	1	0,8	12	22
K0333.405	ball in POM	5	4	5,6	12	1	1	19	30
K0333.406	ball in POM	6	5	6,5	14	1	1,5	22	40
K0333.408	ball in POM	8	6	8,5	16	1	1,8	42	73
K0333.410	ball in POM	10	8	12	22	2,5	2,7	54	100
K0333.412	ball in POM	12	10	14	24	2,5	3,2	54	122

Spring Plungers

push fit plastic

METRIC
Parts



Material:

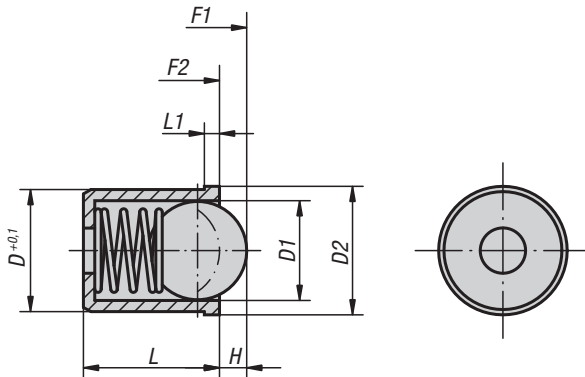
Body thermoplastic,
spring in stainless steel,
ball in stainless steel or in POM.

Type:

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

Part Number Example:

K0334.04



KIPP Spring Plungers, push fit, plastic, metric

Item No.	Version	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0334.04	ball in stainless steel	4	3	4,6	5	1	0,7	3	7
K0334.05	ball in stainless steel	5	4	5,6	6	1	1	4	7
K0334.06	ball in stainless steel	6	5	6,5	7	1	1,5	6	12
K0334.08	ball in stainless steel	8	6,5	8,5	9	1	1,8	6	12
K0334.10	ball in stainless steel	10	8	12	13,5	2,5	2,7	10	20
K0334.12	ball in stainless steel	12	10	14	16	2,5	3,5	15	25

KIPP Spring Plungers, push fit, plastic, metric

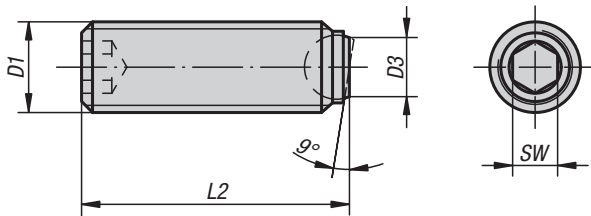
Item No.	Version	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0334.204	ball in POM	4	3	4,6	5	1	0,7	3	7
K0334.205	ball in POM	5	4	5,6	6	1	1	4	7
K0334.206	ball in POM	6	5	6,5	7	1	1,5	6	12
K0334.208	ball in POM	8	6,5	8,5	9	1	1,8	6	12
K0334.210	ball in POM	10	8	12	13,5	2,5	2,7	10	20
K0334.212	ball in POM	12	10	14	16	2,5	3,5	15	25

Ball-end thrust screws without head

stainless steel with flattened ball



New Item



Material:

Screw and ball stainless steel.

Type:

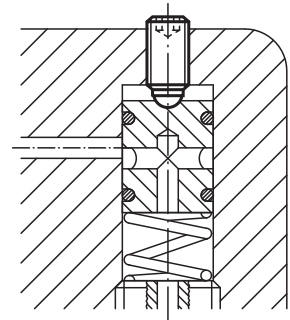
Stainless steel natural finish.

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



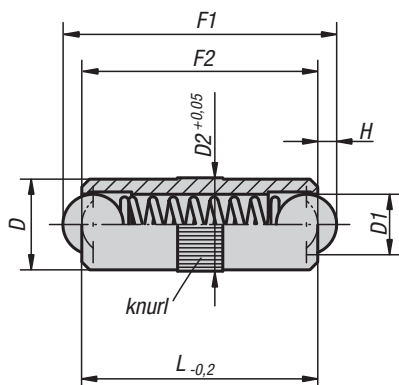
KIPP Ball-end thrust screws without head, stainless steel with flattened ball, metric

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:

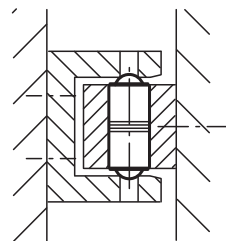
Body in brass, balls and spring in stainless steel

Type:

Balls hardened, natural finish

Part Number Example:

K0337.10



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

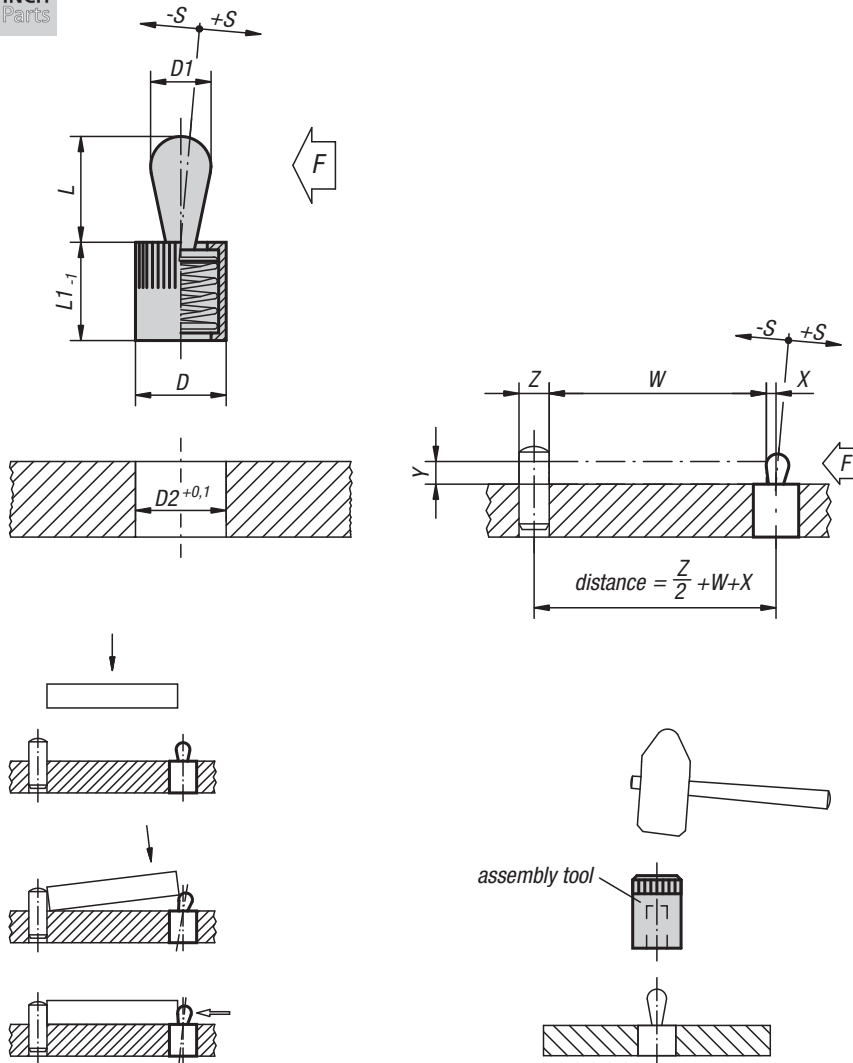
Notes:

A large rectangular area filled with a fine grid of light gray lines, typical of graph paper, intended for taking notes or drawing.

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 adjustment are also available.

Dimensions W and Z are according to customer specifications.

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	.5	10	.8	1	1	1	1	1	K0369.03CM
K0368.21036CM	1/4	3	4	7	1/4	.5	20	.8	1	1	1	1	1	K0369.03CM
K0368.21038CM	1/4	3	4	7	1/4	.5	40	.8	1	1	1	1	1	K0369.03CM
K0368.21054CU	7/16	5	6.7	11	7/16	.8	20	-	1.5	1.7	1.7	1.7	1.7	K0369.05CU
K0368.21056CU	7/16	5	6.7	11	7/16	.8	50	-	1.5	1.7	1.7	1.7	1.7	K0369.05CU
K0368.21058CU	7/16	5	6.7	11	7/16	.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	.5	10	.8	1	1	1	1	1	K0369.03CM
K0368.22036CM	1/4	3	4	7	1/4	.5	20	.8	1	1	1	1	1	K0369.03CM
K0368.22038CM	1/4	3	4	7	1/4	.5	40	.8	1	1	1	1	1	K0369.03CM
K0368.22054CU	7/16	5	6	12	7/16	.8	20	-	1.5	1.7	1.7	1.7	1.7	K0369.05CU
K0368.22056CU	7/16	5	6	12	7/16	.8	50	-	1.5	1.7	1.7	1.7	1.7	K0369.05CU
K0368.22058CU	7/16	5	6	12	7/16	.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	.5	10	.8	1	1	1	1	1	K0369.03CM
K0368.71036CM	1/4	3	4	7	1/4	.5	20	.8	1	1	1	1	1	K0369.03CM
K0368.71054CU	7/16	5	6.7	11	7/16	.8	20	-	1.5	1.7	1.7	1.7	1.7	K0369.05CU
K0368.71056CU	7/16	5	6.7	11	7/16	.8	50	-	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
K0368.71066CU	7/16	6	10.7	11	7/16	1	75	-	-	-	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
K0368.71086CP	1/2	8	13.9	13	1/2	1.3	100	-	-	-	-	2.5	2.7	K0369.08CP
K0368.71104CQ	5/8	10	16.7	17	5/8	1.6	100	-	-	-	-	-	3.1	K0369.10CQ
K0368.71106CQ	5/8	10	16.7	17	5/8	1.6	200	-	-	-	-	-	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	.5	10	.8	1	1	1	1	1	K0369.03CM
K0368.72036CM	1/4	3	4	7	1/4	.5	20	.8	1	1	1	1	1	K0369.03CM
K0368.72054CU	7/16	5	6	12	7/16	.8	20	-	1.5	1.7	1.7	1.7	1.7	K0369.05CU
K0368.72056CU	7/16	5	6	12	7/16	.8	50	-	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
K0368.72066CU	7/16	6	10	12	7/16	1	75	-	-	-	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
K0368.72086CP	1/2	8	13	14	1/2	1.3	100	-	-	-	-	2.5	2.7	K0369.08CP
K0368.72104CQ	5/8	10	16	18	5/8	1.6	100	-	-	-	-	-	3.1	K0369.10CQ
K0368.72106CQ	5/8	10	16	18	5/8	1.6	200	-	-	-	-	-	3.1	K0369.10CQ

Eccentric Bushings and assembly tools

for lateral spring plungers

INCH
Parts

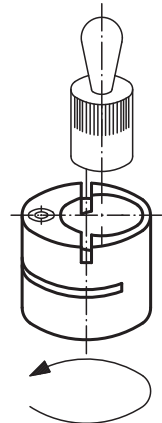
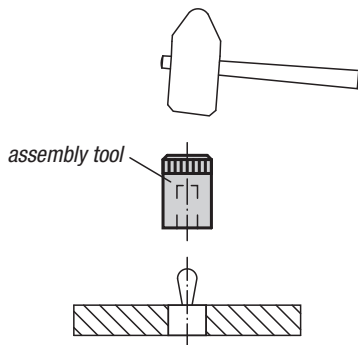
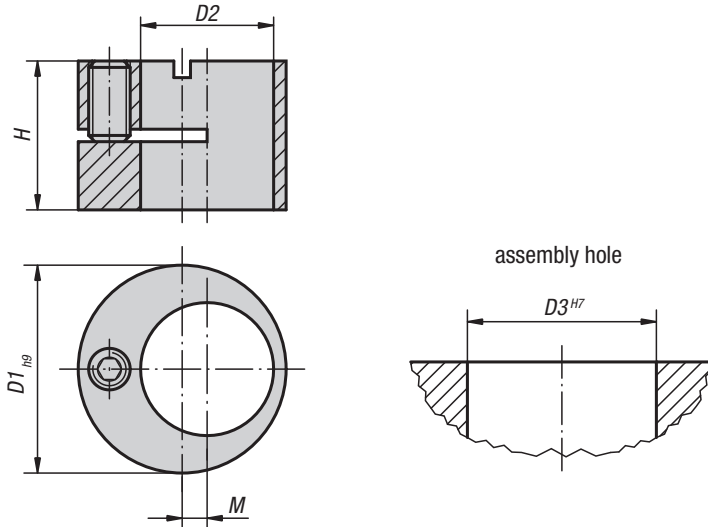


Material:
Steel.

Type:
Black oxide finish.

Part Number Example:
K0369.03CM

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



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:

