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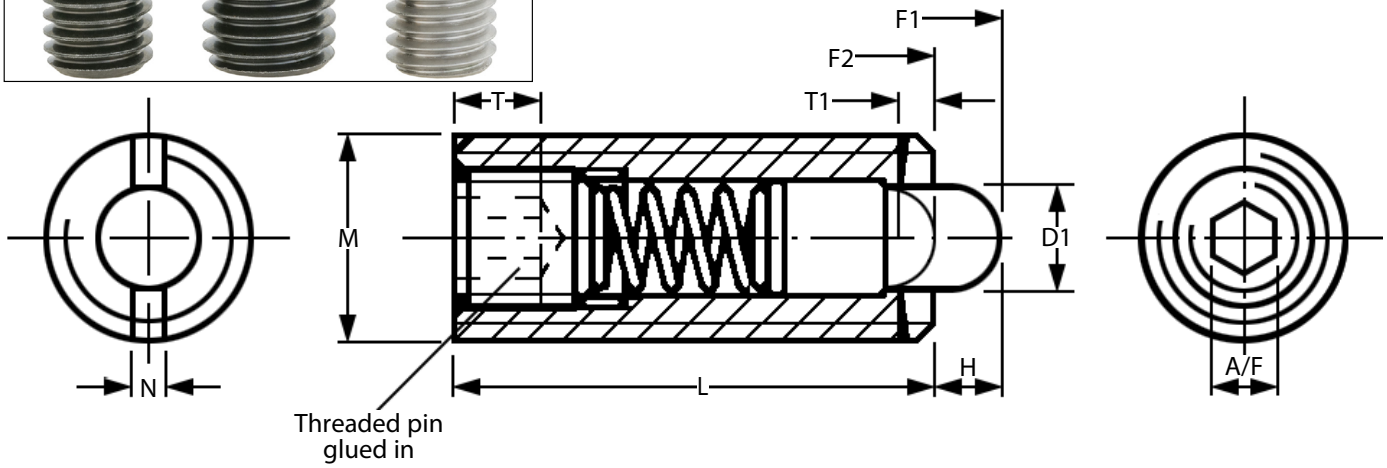
BSM
BSM-P
BSM-SS

MECHANICAL

Threaded Spring Plungers

Pressure Pin : 0.5 - 130N, M3 - M24



Part Number	Thread M	D1	L	H	T	T1	N	A/F	Spring Force (Approx.) N Initial Pressure F_1	Final Pressure F_2	Mass g
STEEL BODY AND PIN											
BSM3	M3	1.0	10	1.5	1.5	1.0	0.4	0.7	0.5	3	0.35
BSM4	M4	1.5	15	1.5	2.0	0.6	0.6	1.3	5.0	16	0.80
BSM5	M5	2.4	18	2.3	2.0	0.8	0.8	1.5	6.0	20	1.30
BSM6	M6	2.7	20	2.5	2.5	1.0	1.0	2.0	7.0	20	2.50
BSM8	M8	3.5	22	3.0	3.0	1.4	1.2	2.5	9.0	35	6.00
BSM10	M10	4.0	22	3.0	3.5	1.4	1.6	3.0	9.0	35	9.00
BSM12	M12	6.0	28	4.0	5.0	2.0	2.0	4.0	10.0	55	16.00
BSM16	M16	7.5	32	5.0	6.0	2.5	2.5	5.0	45.0	100	35.00
BSM20	M20	10.0	40	7.0	8.0	3.0	2.5	6.0	60.0	120	66.30
BSM24	M24	12.0	52	10.0	10.0	3.0	2.5	8.0	80.0	160	122.20
STEEL BODY WITH PLASTIC PIN											
BSM4P	M4	1.5	15	1.5	2.0	0.6	0.6	1.3	5.0	16	0.80
BSM5P	M5	2.4	18	2.3	2.0	0.8	0.8	1.5	6.0	20	1.30
BSM6P	M6	2.7	20	2.5	2.5	1.0	1.0	2.0	7.0	20	2.50
BSM8P	M8	3.5	22	3.0	3.0	1.4	1.2	2.5	9.0	35	6.00
BSM10P	M10	4.0	22	3.0	3.5	1.4	1.6	3.0	9.0	35	9.00
BSM12P	M12	6.0	28	4.0	5.0	2.0	2.0	4.0	10.0	55	16.00
BSM16P	M16	7.5	32	5.0	6.0	2.5	2.5	5.0	45.0	100	35.00
STAINLESS STEEL BODY AND PIN											
BSM5SS	M5	2.4	18	2.3	2.0	0.8	0.8	1.5	5.0	17	1.30
BSM6SS	M6	2.7	20	2.5	2.5	1.0	1.0	2.0	6.0	17	2.50
BSM8SS	M8	3.5	22	3.0	3.0	1.4	1.2	2.5	7.0	29	6.00
BSM10SS	M10	4.0	22	3.0	3.5	1.4	1.6	3.0	8.0	31	9.00
BSM12SS	M12	6.0	28	4.0	5.0	2.0	2.0	4.0	10.0	47	16.00

Material

Sleeve: BSM & BSM-P: Steel, Quality Class 5.8 with black oxide finish.
BSM-SS: Stainless Steel (Wr. 1.4305) with natural finish.

Pressure Pin: BSM Hardened Steel with natural finish. **BSM-P:** Plastic.
BSM-SS: Hardened Stainless Steel (Wr. 1.4034) with natural finish.

Spring: BSM & BSM-P: Spring Steel. **BSM-SS:** Stainless Steel (Wr. 1.4310).

Pressure and function tested. Spring Force **F1** and **F2**, Spring Travel **H**, and Thread **M** optoelectronically tested (sizes M3 to M12 only).

Other Info.

Spring plungers serve for positioning and indexing, and also as hold-down and knock-out pins. They are used, for example, in fixture and tool shops.
Available with slot recess instead of hex socket, P.O.A.
Specialist assembly key for fitting available, P.O.A.
BSM, BSM/LOK, BSM-P and BSM-P/LOK available with lighter spring force, P.O.A.
BSM -SS and BSM-SS/LOK available with stronger spring force, P.O.A.
BSM/LOK Advantages: Vibration resistant; Extremely high loosening torque; Secure in every position; Saves assembly time and stocking space; For repeated use.

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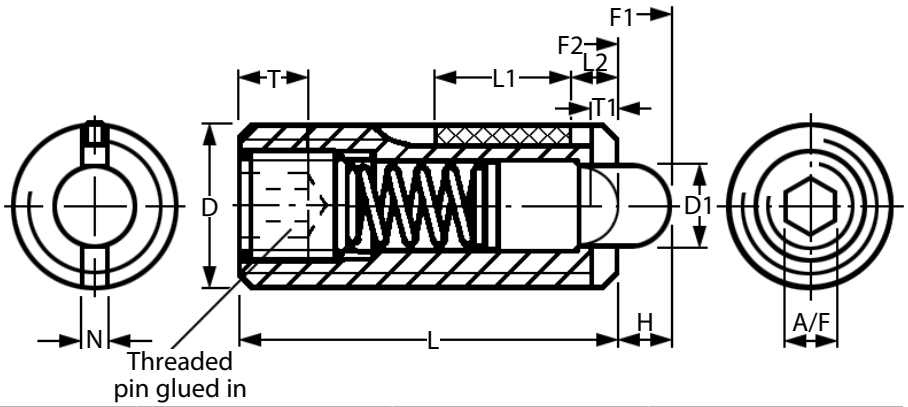
BSM/LOK
BSM-P/LOK
BSM-SS/LOK

MECHANICAL

Threaded Spring Plungers (Secured with Long-Lok)

Pressure Pin : 6 - 100N, M5 - M16



Part Number	Initial Spring Force Pressure (Approx.) N F_1	Final Spring Force Pressure (Approx.) N F_2	Tightening Torque (Approx.) Nm M_{in}	Loosening Torque (Approx.) Nm M_{out}	Mass g
STEEL BODY AND PIN					
BSM5/LOK	6	20	0.10	0.25	1.3
BSM6/LOK	7	20	0.25	0.45	2.5
BSM8/LOK	9	35	0.40	0.60	6.0
BSM10/LOK	9	35	0.70	0.80	9.0
BSM12/LOK	10	55	1.00	1.20	16.0
BSM16/LOK	45	100	4.20	4.30	35.0
STEEL BODY WITH PLASTIC PIN					
BSM5P/LOK	6	20	0.10	0.25	1.3
BSM6P/LOK	7	20	0.25	0.45	2.5
BSM8P/LOK	9	35	0.40	0.60	6.0
BSM10P/LOK	9	35	0.70	0.80	9.0
BSM12P/LOK	10	55	1.00	1.20	16.0
BSM16P/LOK	45	100	4.20	4.30	35.0
STAINLESS STEEL					
BSM5SS/LOK	5	17	0.10	0.25	1.3
BSM6SS/LOK	6	17	0.25	0.45	2.5
BSM8SS/LOK	7	29	0.40	0.60	6.0
BSM10SS/LOK	8	31	0.70	0.80	9.0
BSM12SS/LOK	10	47	1.00	1.20	16.0

Part Number	Thread M	D1	L	L1 $^{\pm 0.5}$	L2	H	T	T1	N	A/F
STEEL BODY AND PIN										
BSM5/LOK	M5	2.4	18	7	Approx.	2.3	2.0	0.8	0.8	1.5
BSM6/LOK	M6	2.7	20	7	2	2.5	2.5	1.0	1.0	2.0
BSM8/LOK	M8	3.5	22	8	Courses	3.0	3.0	1.4	1.2	2.5
BSM10/LOK	M10	4.0	22	9	of	3.0	3.5	1.4	1.6	3.0
BSM12/LOK	M12	6.0	28	10	Thread	4.0	5.0	2.0	2.0	4.0
BSM16/LOK	M16	7.5	32	14		5.0	6.0	2.5	2.5	5.0
STEEL BODY WITH PLASTIC PIN										
BSM5P/LOK	M5	2.4	18	7	Approx.	2.3	2.0	0.8	0.8	1.5
BSM6P/LOK	M6	2.7	20	7	2	2.5	2.5	1.0	1.0	2.0
BSM8P/LOK	M8	3.5	22	8	Courses	3.0	3.0	1.4	1.2	2.5
BSM10P/LOK	M10	4.0	22	9	of	3.0	3.5	1.4	1.6	3.0
BSM12P/LOK	M12	6.0	28	10	Thread	4.0	5.0	2.0	2.0	4.0
BSM16P/LOK	M16	7.5	32	14		5.0	6.0	2.5	2.5	5.0
STAINLESS STEEL										
BSM5SS/LOK	M5	2.4	18	7	Approx.	2.3	2.0	0.8	0.8	1.5
BSM6SS/LOK	M6	2.7	20	7	2	2.5	2.5	1.0	1.0	2.0
BSM8SS/LOK	M8	3.5	22	8	Courses	3.0	3.0	1.4	1.2	2.5
BSM10SS/LOK	M10	4.0	22	9	of	3.0	3.5	1.4	1.6	3.0
BSM12SS/LOK	M12	6.0	28	10	Thread	4.0	5.0	2.0	2.0	4.0

Material

Sleeve: BSM/LOK & BSM-P/LOK: Steel, Quality Class 5.8 with black oxide finish. **BSM-SS/LOK:** Stainless Steel (Wr. 1.4305) with natural finish.
Pressure Pin: BSM/LOK Hardened Steel. **BSM-P/LOK:** Plastic. **BSM & BSM-P/LOK:** Hardened Stainless Steel (Wr. 1.4034).
Spring: BSM/LOK & BSM-P/LOK: Spring Steel. **BSM-SS/LOK:** Stainless Steel (Wr. 1.4310).
Long-Lok Thread Lock: Nylon.

Pressure and function tested. Spring Force **F1** and **F2**, Spring Travel **H**, and Thread **M** optoelectronically tested (sizes M5 to M12 only)

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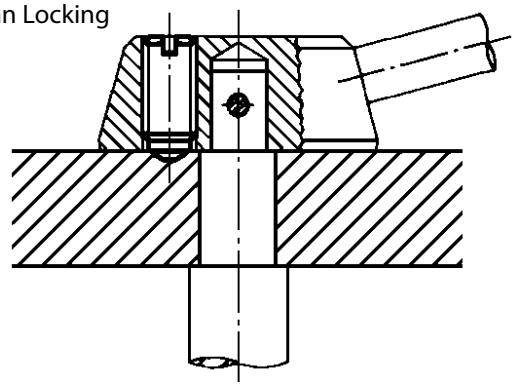
MECHANICAL

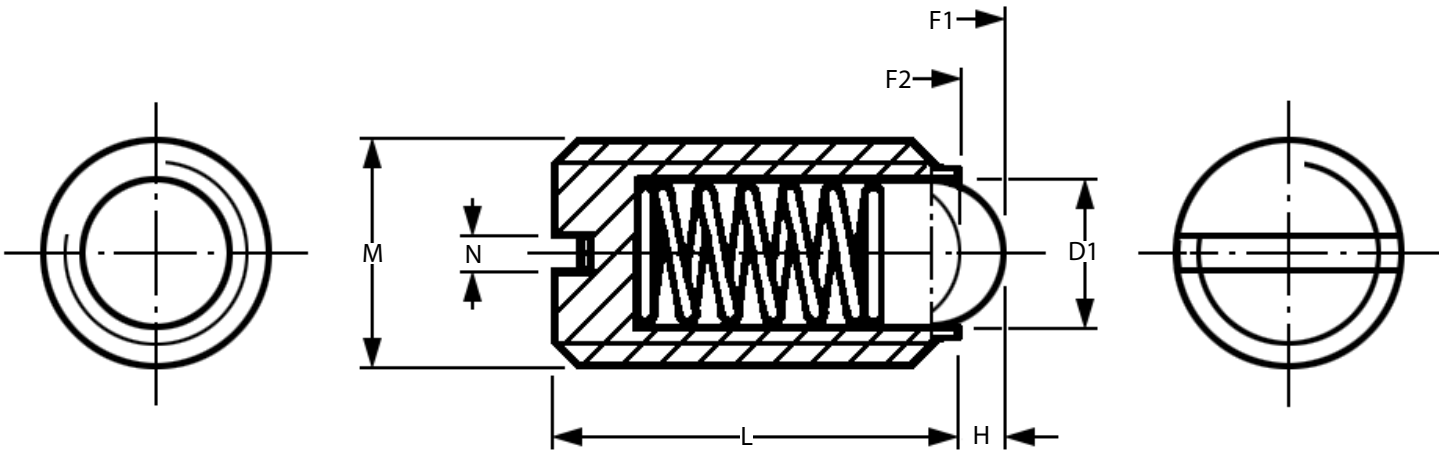
BPM
BSM-SS

Threaded Spring Plungers

Ball End : 1.5 - 160N, M3 - M20

Column Locking





Part Number Steel	Part Number Stainless	Thread M	D1	L	H	N	Spring Force (Approx.) N Initial Pressure F_1	Spring Force (Approx.) N Final Pressure F_2	Mass g
BPM3	BPM3SS	M3	1.5	7	0.5	0.4	1.5	3	0.2
BPM4	BPM4SS	M4	2.5	9	0.8	0.6	4.0	10	0.6
BPM5	BPM5SS	M5	3.0	12	0.9	0.8	6.0	11	0.9
BPM6	BPM6SS	M6	3.5	14	1.0	1.0	9.0	13	1.5
BPM8	BPM8SS	M8	5.0	16	1.5	1.2	15.0	30	3.5
BPM10	BPM10SS	M10	6.0	19	2.0	1.6	20.0	35	7.0
BPM12	BPM12SS	M12	8.0	22	2.5	2.0	30.0	55	10.0
BPM16	BPM16SS	M16	10.0	24	3.5	2.5	65.0	125	24.0
BPM20	BPM20SS	M20	12.0	30	4.5	2.5	80.0	160	44.3

Material

Sleeve: BPM: Steel, Quality Class 5.8 with black oxide finish.
BPM-SS: Stainless Steel (Wr. 1.4305) with natural finish.

Ball: BPM Hardened Steel with natural finish.
BSM-SS: Hardened Stainless Steel (Wr. 1.4034) with natural finish.

Spring: BPM: Spring Steel.
BPM-SS: Stainless Steel (Wr. 1.4310).

Pressure and function tested. Spring Force **F1** and **F2**, Spring Travel **H**, and Thread **M** optoelectronically tested (sizes M3 to M12 only).

Other Info.

Spring plungers serve for positioning and indexing, and also as hold-down and knock-out pins. They are used, for example, in fixture and tool shops.
Available with hex socket instead of slot recess, P.O.A.
Available with stronger spring force, P.O.A.

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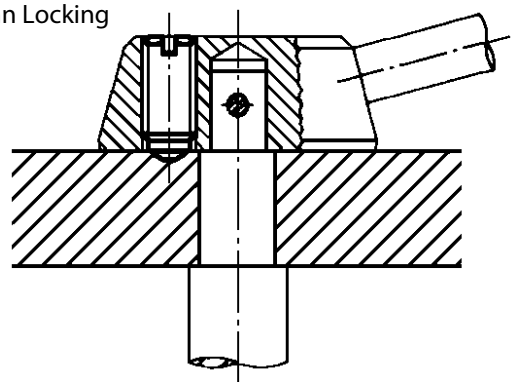
MECHANICAL

BPM/LOK
BPM-SS/LOK

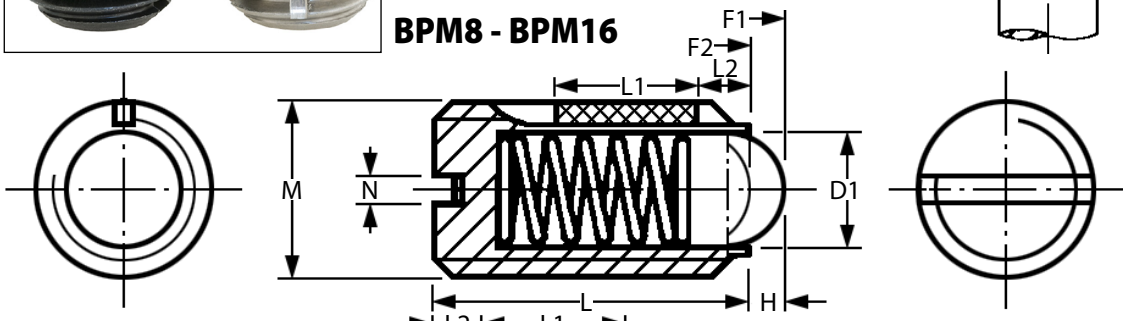
Threaded Spring Plungers (Secured with Long-Lok)

Ball End : 1.5 - 125N, M3 - M16

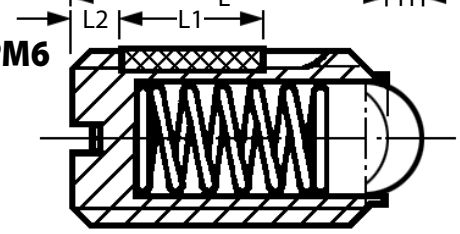
Column Locking



BPM8 - BPM16



BPM3 - BPM6



Part Number Steel	Part Number Stainless	Initial Spring Force Pressure (Approx.) N F_1	Final Spring Force Pressure (Approx.) N F_2	Tightening Torque (Approx.) Nm M_{in}	Loosening Torque (Approx.) Nm M_{out}	Mass g
BPM3/LOK	BPM3SS/LOK	1.5	3	0.10	0.25	0.2
BPM4/LOK	BPM4SS/LOK	4.0	10	0.10	0.25	0.6
BPM5/LOK	BPM5SS/LOK	6.0	11	0.10	0.25	0.9
BPM6/LOK	BPM6SS/LOK	9.0	13	0.25	0.45	1.5
BPM8/LOK	BPM8SS/LOK	15.0	30	0.40	0.60	3.5
BPM10/LOK	BPM10SS/LOK	20.0	35	0.70	0.80	7.0
BPM12/LOK	BPM12SS/LOK	30.0	55	1.00	1.20	10.0
BPM16/LOK	BPM16SS/LOK	65.0	125	4.20	4.30	24.0

Part Number Steel	Part Number Stainless	Thread M	D1	L	$L1^{\pm 0.5}$	L2	H	N
BPM3/LOK	BPM3SS/LOK	M3	1.5	7	4		0.5	0.4
BPM4/LOK	BPM4SS/LOK	M4	2.5	9	5	Approx.	0.8	0.6
BPM5/LOK	BPM5SS/LOK	M5	3.0	12	6	2	0.9	0.8
BPM6/LOK	BPM6SS/LOK	M6	3.5	14	7	Courses	1.0	1.0
BPM8/LOK	BPM8SS/LOK	M8	5.0	16	8	of	1.5	1.2
BPM10/LOK	BPM10SS/LOK	M10	6.0	19	9	Thread	2.0	1.6
BPM12/LOK	BPM12SS/LOK	M12	8.0	22	10		2.5	2.0
BPM16/LOK	BPM16SS/LOK	M16	10.0	24	14		3.5	2.5

Material

Sleeve: BPM/LOK: Steel, Quality Class 5.8 with black oxide finish.
BPM-SS/LOK: Stainless Steel (Wr. 1.4305) with natural finish.

Ball: BPM/LOK Hardened Steel with natural finish.
BSM-SS/LOK: Hardened Stainless Steel (Wr. 1.4034) with natural finish.

Spring: BPM/LOK: Spring Steel.
BPM-SS/LOK: Stainless Steel (Wr. 1.4310).

Long-Lok Thread Lock: Nylon.

Pressure and function tested. Spring Force **F1** and **F2**, Spring Travel **H**, and Thread **M** optoelectronically tested (sizes M3 to M12 only).

Other Info.

Spring plungers serve for positioning and indexing, and also as hold-down and knock-out pins. They are used, for example, in fixture and tool shops.
Available with hex socket instead of slot recess, P.O.A.
Available with stronger spring force, P.O.A.

BPM/LOK Advantages: Vibration resistant; Extremely high loosening torque; Secure in every position; Saves assembly time and stocking space; For repeated use.

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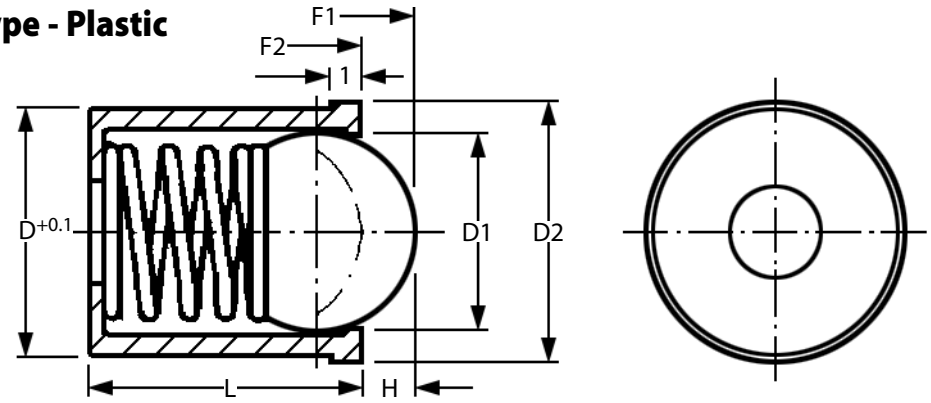
MECHANICAL

BSD
BSD-SS

Plain Spring Plungers

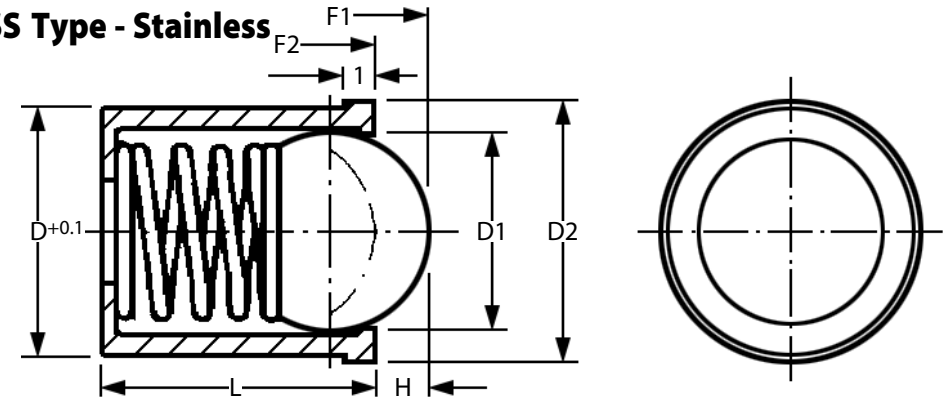
Ball End : 3 - 12N, 4 - 8mm Dia.

BSD Type - Plastic



Part Number Plastic	D	D1	D2	L	H	Spring Force (Approx.) N Initial Pressure F_1	Final Pressure F_2	Mass g
BSD-4	4	3.0	4.6	5	0.7	3	7	0.17
BSD-5	5	4.0	5.6	6	1.0	4	7	0.35
BSD-6	6	5.0	6.5	7	1.5	6	12	0.66
BSD-8	8	6.5	8.5	9	1.8	6	12	1.46

BSD-SS Type - Stainless



Part Number Stainless	D	D1	D2	L	H	Spring Force (Approx.) N Initial Pressure F_1	Final Pressure F_2	Mass g
BSD-4SS	4	3.0	4.6	5	0.8	3	7	0.3
BSD-5SS	5	4.0	5.6	6	1.0	4	7	0.6
BSD-6SS	6	5.0	6.5	7	1.5	6	12	1.0
BSD-8SS	8	6.5	8.5	9	1.8	6	12	2.0

Material

Sleeve: BSD: Black Thermoplastic with a smooth surface.
BSD-SS: Stainless Steel with a smooth surface and natural finish.

Ball: Hardened Stainless Steel with natural finish.

Spring: Stainless Steel.

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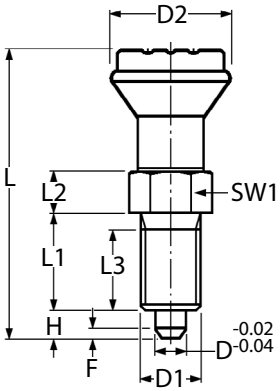
SLB
SLB/SS

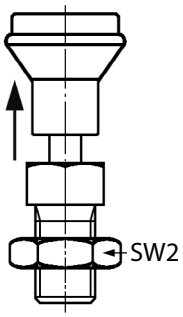
MECHANICAL

Index Plungers / Locking Pins

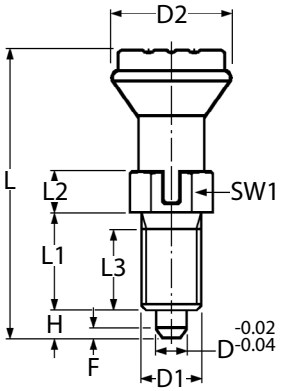
5 - 40N, M10 - M20



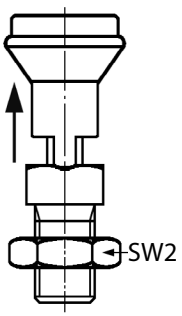
FORM A
Without locking slot
Without locking nut



FORM B
Without locking slot
With locking nut



FORM C
With locking slot
Without locking nut



FORM D
With locking slot
With locking nut

Part Number Steel	Part Number Stainless	Form	$D^{-0.02}_{-0.04}$	Thread D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring Force (Approx.) N Initial Pressure F_1	Spring Force (Approx.) N Final Pressure F_2
SLB10-A	SLB10-A/SS	A	5	M10x1.0	21	47	17	7	15	5	13	-	1.3	5	12
SLB10-B	SLB10-B/SS	B	5	M10x1.0	21	47	17	7	15	5	13	17	1.3	5	12
SLB10-C	SLB10-C/SS	C	5	M10x1.0	21	47	17	7	15	5	13	-	1.3	5	12
SLB10-D	SLB10-D/SS	D	5	M10x1.0	21	47	17	7	15	5	13	17	1.3	5	12
SLB12-A	SLB12-A/SS	A	6	M12x1.5	25	56	20	8	17	6	14	-	1.8	6	14
SLB12-B	SLB12-B/SS	B	6	M12x1.5	25	56	20	8	17	6	14	19	1.8	6	14
SLB12-C	SLB12-C/SS	C	6	M12x1.5	25	56	20	8	17	6	14	-	1.8	6	14
SLB12-D	SLB12-D/SS	D	6	M12x1.5	25	56	20	8	17	6	14	19	1.8	6	14
SLB16-A	SLB16-A/SS	A	8	M16x1.5	33	74	26	10	23	8	19	-	2.3	15	35
SLB16-B	SLB16-B/SS	B	8	M16x1.5	33	74	26	10	23	8	19	24	2.3	15	35
SLB16-C	SLB16-C/SS	C	8	M16x1.5	33	74	26	10	23	8	19	-	2.3	15	35
SLB16-D	SLB16-D/SS	D	8	M16x1.5	33	74	26	10	23	8	19	24	2.3	15	35
SLB20-A	SLB20-A/SS	A	10	M20x1.5	33	80	28	12	25	10	22	-	2.8	15	34
SLB20-B	SLB20-B/SS	B	10	M20x1.5	33	80	28	12	25	10	22	30	2.8	15	34
SLB20-C	SLB20-C/SS	C	10	M20x1.5	33	80	28	12	25	10	22	-	2.8	15	34
SLB20-D	SLB20-D/SS	D	10	M20x1.5	33	80	28	12	25	10	22	30	2.8	15	34

Material

Sleeve: SLB: Steel, Quality Class 5.8 with black oxide finish.
SLB/SS: Stainless Steel (Wr. 1.4305) with natural finish.

Locking Pin: SLB Hardened Steel with polished finish.
SLB/SS: Hardened Stainless Steel (Wr. 1.4034) with natural finish.

Mushroom Grip: Black thermoplastic.

Other Info.

Locking bolts are used to prevent any change in locking position due to shearing forces. A new locking position can only be set after the bolt has been manually disengaged. Form C or D is recommended for applications in which gradual disengagement of the locking bolt without any relocking of the pin is desired.

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