



We are different and think differently.





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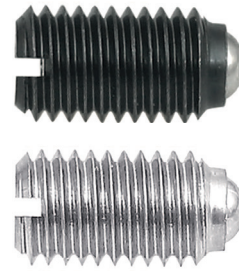
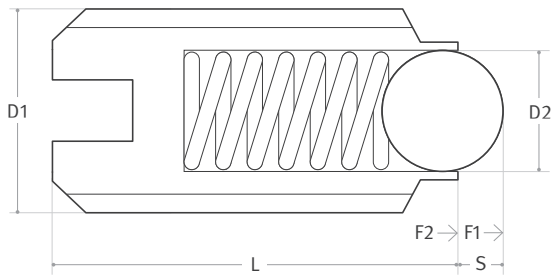


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Spring plunger

Slot and ball, standard spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Ball Ø	S	L	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-20-1003	1-20-2003	M3	1.5	0.5	7	2	3
1-20-1004	1-20-2004	M4	2.5	0.8	9	4	10
1-20-1005	1-20-2005	M5	3	0.9	12	6	11
1-20-1006	1-20-2006	M6	3.5	1	14	9	15
1-20-1008	1-20-2008	M8	5	1.5	16	18	30
1-20-1010	1-20-2010	M10	6	2	19	20	40
1-20-1012	1-20-2012	M12	8	2.5	22	30	55
1-20-1016	1-20-2016	M16	10	3.5	24	65	120
1-20-1020	1-20-2020	M20	12	4.5	30	90	140
1-20-1024	1-20-2024	M24	15	5.5	34	125	180

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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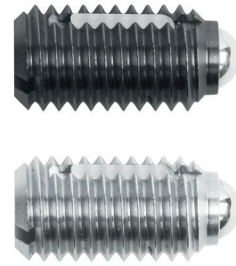
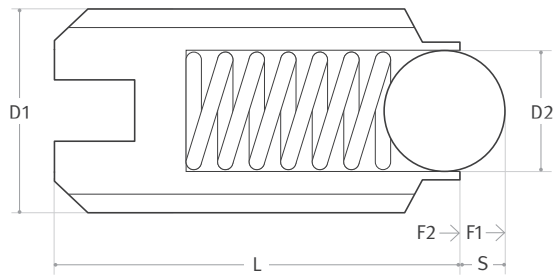
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Slot and ball, standard spring force and nylon thread lock



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Ball Ø	L	S	Spring force Start F1 ≈ N	Spring force End F2 ≈ N	Screw-in torque (N)	Screw-out torque (N)
1-20-1003-LL	1-20-2003-LL	M3	1.5	7	0.5	2	3	0.1	0.08
1-20-1004-LL	1-20-2004-LL	M4	2.5	9	0.8	4	10	0.2	0.12
1-20-1005-LL	1-20-2005-LL	M5	3	12	0.9	6	11	0.31	0.17
1-20-1006-LL	1-20-2006-LL	M6	3.5	14	1	9	15	0.43	0.2
1-20-1008-LL	1-20-2008-LL	M8	5	16	1.5	18	30	1.09	0.38
1-20-1010-LL	1-20-2010-LL	M10	6	19	2	20	40	1.4	0.65
1-20-1012-LL	1-20-2012-LL	M12	8	22	2.5	30	55	2	1.35
1-20-1016-LL	1-20-2016-LL	M16	10	24	3.5	65	120	3.98	2.95

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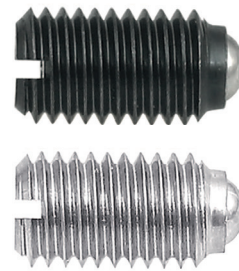
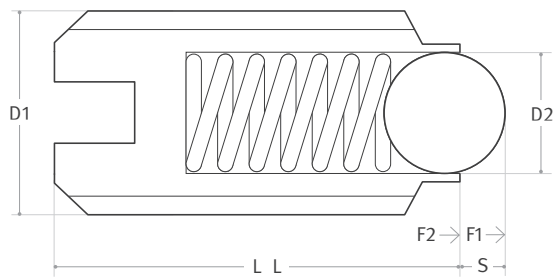
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel
Thread lock	Nylon thread, white



Spring plunger

Slot and ball, strengthened spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Ball Ø	S	L	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-20-1103	1-20-2103	M3	1.5	0.5	7	5	7
1-20-1104	1-20-2104	M4	2.5	0.8	9	12	22
1-20-1105	1-20-2105	M5	3	0.9	12	19	30
1-20-1106	1-20-2106	M6	3.5	1	14	28	40
1-20-1108	1-20-2108	M8	5	15	16	47	73
1-20-1110	1-20-2110	M10	6	2	19	66	100
1-20-1112	1-20-2112	M12	8	2.5	22	66	120
1-20-1116	1-20-2116	M16	10	3.5	24	90	180
1-20-1120	1-20-2120	M20	12	4.5	30	115	240
1-20-1124	1-20-2124	M24	15	5.5	34	130	270

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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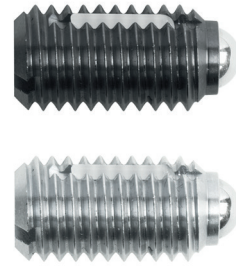
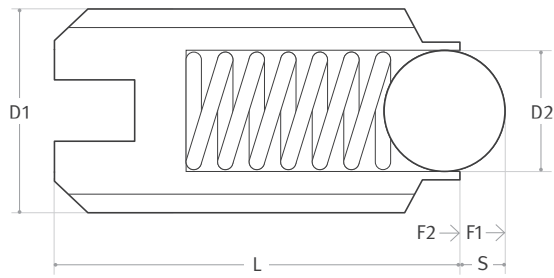
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Slot and ball, strengthened spring force and nylon thread lock



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Ball Ø	L	S	Spring force Start F1 ≈ N	Spring force End F2 ≈ N	Screw-in torque (N)	Screw-out torque (N)
1-20-1103-LL	1-20-2103-LL	M3	1.5	7	0.5	5	7	0.1	0.08
1-20-1104-LL	1-20-2104-LL	M4	2.5	9	0.8	12	22	0.2	0.12
1-20-1105-LL	1-20-2105-LL	M5	3	12	0.9	19	30	0.31	0.17
1-20-1106-LL	1-20-2106-LL	M6	3.5	14	1	28	40	0.43	0.2
1-20-1108-LL	1-20-2108-LL	M8	5	16	1.5	47	73	1.09	0.38
1-20-1110-LL	1-20-2110-LL	M10	6	19	2	66	100	1.4	0.65
1-20-1112-LL	1-20-2112-LL	M12	8	22	2.5	66	120	2	1.35
1-20-1116-LL	1-20-2116-LL	M16	10	24	3.5	90	180	3.98	2.95

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

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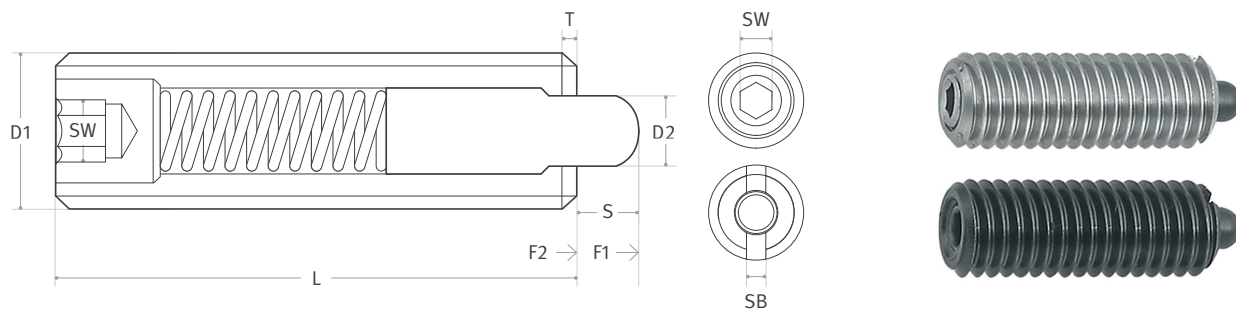
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel
Thread lock	Nylon thread, white



Spring plunger

Threaded pin and bolt, standard spring force



Art. No. Burnished steel Bolt stainless steel	Art. No. Stainless steel Bolt stainless steel	D1	D2 Bolt Ø	S	L	T	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-21-3004	1-21-4004	M4	1.5	1.5	15	0.6	13	5	16
1-21-3005	1-21-4005	M5	2.4	2.3	18	0.8	15	6	20
1-21-3006	1-21-4006	M6	2.7	2.5	20	0.9	2	7	20
1-21-3008	1-21-4008	M8	3.5	3	22	1.4	25	9	35
1-21-3010	1-21-4010	M10	4	3	22	1.4	3	9	35
1-21-3012	1-21-4012	M12	6	4	28	2	4	10	55
1-21-3016	1-21-4016	M16	7.5	5	32	2.5	5	45	100

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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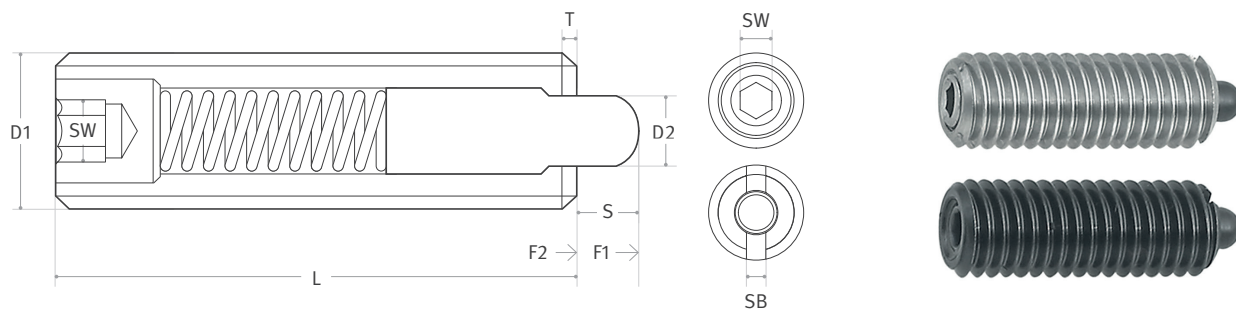
Material • Technical data

Housing	Burnished machining steel or stainless steel
Bolt	Stainless steel
Threaded pin	DIN 913 made of burnished steel or stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Threaded pin and bolt, strengthened spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Bolt Ø	S	L	T	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-21-1105	1-21-2105	M5	2.4	2.3	18	0.8	1.5	11	40
1-21-1106	1-21-2106	M6	2.7	2.5	20	0.9	2	15	38
1-21-1108	1-21-2108	M8	3.5	3	22	1.4	2.5	20	75
1-21-1110	1-21-2110	M10	4	3	22	1.4	3	20	75
1-21-1112	1-21-2112	M12	6	4	28	2	4	45	120
1-21-1116	1-21-2116	M16	7.5	5	32	2.5	5	60	150
1-21-1120	1-21-2120	M20	10	7	40	3	6	75	190
1-21-1124	—	M24	12	10	52	3	8	95	240

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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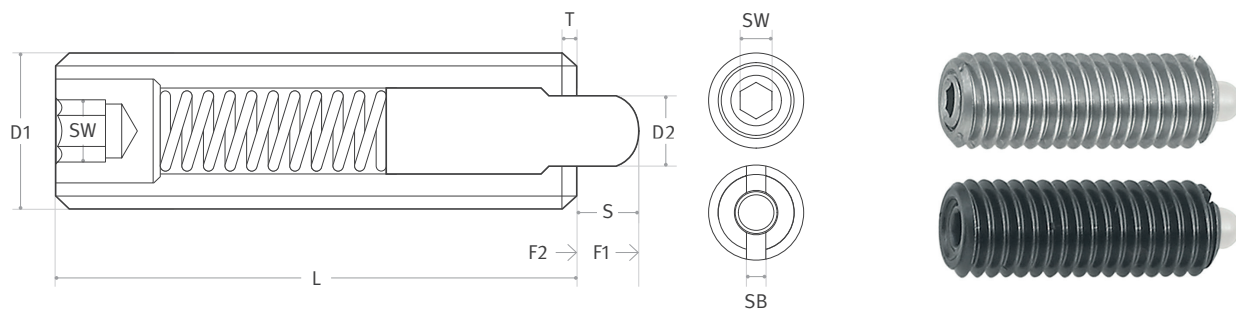
Material • Technical data

Housing	Burnished machining steel or stainless steel
Bolt	Hardened machining steel, hardened stainless steel
Threaded pin	DIN 913 made of burnished steel or stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Threaded pin and bolt, standard spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Bolt Ø	S	L	T	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-21-3004	1-21-4004	M4	1.5	1.5	15	0.6	13	5	16
1-21-3005	1-21-4005	M5	2.4	2.3	18	0.8	15	6	20
1-21-3006	1-21-4006	M6	2.7	2.5	20	0.9	2	7	20
1-21-3008	1-21-4008	M8	3.5	3	22	1.4	25	9	35
1-21-3010	1-21-4010	M10	4	3	22	1.4	3	9	35
1-21-3012	1-21-4012	M12	6	4	28	2	4	10	55
1-21-3016	1-21-4016	M16	7.5	5	32	2.5	5	45	100

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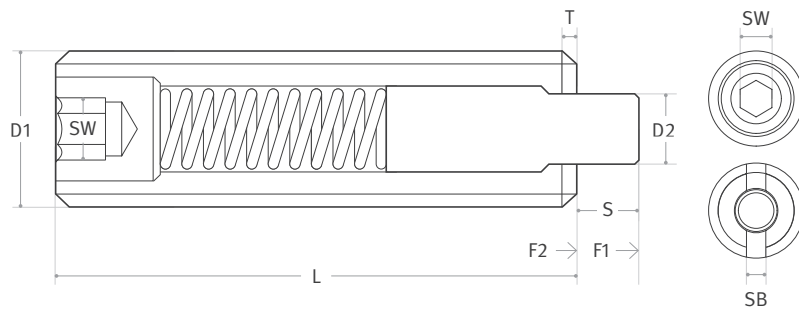
Material • Technical data

Housing	Burnished machining steel or stainless steel
Bolt	POM (Thermoplastic)
Threaded pin	DIN 913 made of burnished steel or stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Threaded pin and flattened bolt, standard spring force



Art. No. Steel Bolt steel	Art. No. Stainless steel Bolt stainless steel	D1	D2 Bolt Ø	S	L	SW	SB	T	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-21-1005-BFL	1-21-2005-BFL	M5	2.4	2.3	18	1.5	0.8	0.8	6	20
1-21-1006-BFL	1-21-2006-BFL	M6	2.7	2.5	20	2	1	0.9	7	20
1-21-1008-BFL	1-21-2008-BFL	M8	3.5	3	22	2.5	1.2	1.4	9	35
1-21-1010-BFL	1-21-2010-BFL	M10	4	3	22	3	1.6	1.4	9	35
1-21-1012-BFL	1-21-2012-BFL	M12	6	4	28	4	2	2	10	55
1-21-1016-BFL	1-21-2016-BFL	M16	7.5	5	32	5	2.5	2.5	45	100
1-21-1020-BFL	—	M20	10	7	40	6	2.5	3	70	140

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

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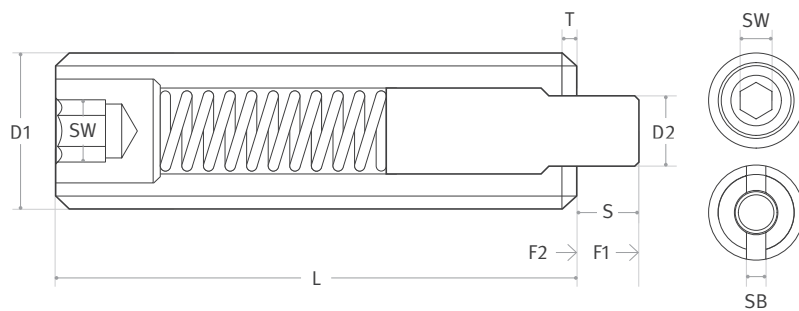
Material • Technical data

Housing	Burnished machining steel (strength class 5.8) or stainless steel (1.4305)
Bolt	Hardened machining steel, hardened stainless steel
Threaded pin	DIN 913 made of burnished steel or stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Threaded pin and flattened bolt, standard spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Bolt Ø	S	L	SW	SB	T	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-21-3005-BFL	1-21-4005-BFL	M5	2.4	2.3	18	1.5	0.8	0.8	6	20
1-21-3006-BFL	1-21-4006-BFL	M6	2.7	2.5	20	2	1	0.9	7	20
1-21-3008-BFL	1-21-4008-BFL	M8	3.5	3	22	2.5	1.2	1.4	9	35
1-21-3010-BFL	1-21-4010-BFL	M10	4	3	22	3	1.6	1.4	9	35
1-21-3012-BFL	1-21-4012-BFL	M12	6	4	28	4	2	2	10	55
1-21-3016-BFL	1-21-4016-BFL	M16	7.5	5	32	5	2.5	2.5	45	100

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

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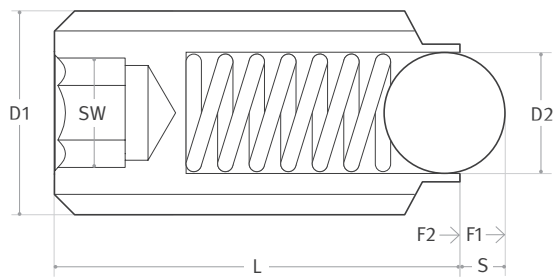
Material • Technical data

Housing	Burnished machining steel (Strength class 5.8) or Stainless steel (1.4305)
Bolt	POM (Thermoplastic)
Threaded pin	DIN 913 made of burnished steel or stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Hexagon socket and ball, standard spring force



Art. Nr. Burnished steel	Art. Nr. Stainless steel	D1	D2 Ball Ø	S	SW	L	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-23-1003	1-23-2003	M3	1.5	0.5	1.5	9	2	3
1-23-1004	1-23-2004	M4	2.5	0.8	2	10	4	10
1-23-1005	1-23-2005	M5	3	0.9	3	14	6	11
1-23-1006	1-23-2006	M6	3.5	1	3	15	9	13
1-23-1008	1-23-2008	M8	5	1.5	4	16	15	30
1-23-1010	1-23-2010	M10	6	2	5	23	20	35
1-23-1012	1-23-2012	M12	8	2.5	6	26	30	55
1-23-1016	1-23-2016	M16	10	3.5	8	33	65	125
1-23-1020	1-23-2020	M20	12	4.5	10	43	80	160
1-23-1024	1-23-2024	M24	15	5.5	12	48	90	180

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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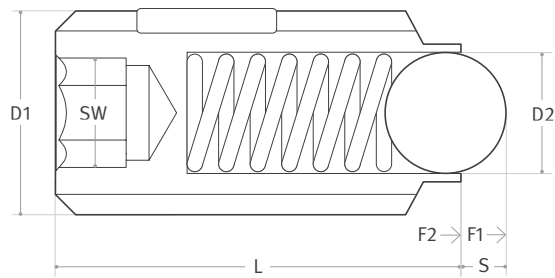
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel, reinforced version also possible
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Hexagon and ball, standard spring force and nylon thread lock



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Ball Ø	L	S	SW	Spring force Start F2 ≈ N	Spring force End F2 ≈ N	Screw-in torque (N)	Screw-out torque (N)
1-23-1003-LL	1-23-2003-LL	M3	1.5	9	0.5	1.5	2	3	0.1	0.08
1-23-1004-LL	1-23-2004-LL	M4	2.5	10	0.8	2	4	10	0.2	0.12
1-23-1005-LL	1-23-2005-LL	M5	3	14	0.9	3	6	11	0.31	0.17
1-23-1006-LL	1-23-2006-LL	M6	3.5	15	1	3	9	15	0.43	0.2
1-23-1008-LL	1-23-2008-LL	M8	5	16	1.5	4	18	30	1.09	0.38
1-23-1010-LL	1-23-2010-LL	M10	6	23	2	5	20	40	1.4	0.65
1-23-1012-LL	1-23-2012-LL	M12	8	26	2.5	6	30	55	2	1.35
1-23-1016-LL	1-23-2016-LL	M16	10	33	3.5	8	65	120	3.98	2.95

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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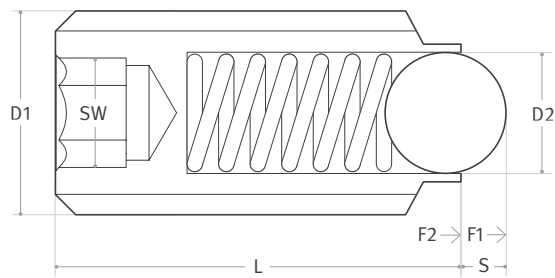
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel
Thread lock	Nylon thread, white



Spring plunger

Hexagon socket and ball, strengthened spring force



Art. Nr. Burnished steel	Art. Nr. Stainless steel	D1	D2 Ball Ø	S	SW	L	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-23-1103	1-23-2103	M3	1.5	0.5	1.5	9	5	7
1-23-1104	1-23-2104	M4	2.5	0.8	2	10	12	22
1-23-1105	1-23-2105	M5	3	0.9	3	14	19	30
1-23-1106	1-23-2106	M6	3.5	1	3	15	28	40
1-23-1108	1-23-2108	M8	5	1.5	4	16	47	73
1-23-1110	1-23-2110	M10	6	2	5	23	66	100
1-23-1112	1-23-2112	M12	8	2.5	6	26	66	120
1-23-1116	1-23-2116	M16	10	3.5	8	33	90	180
1-23-1120	1-23-2120	M20	12	4.5	10	43	115	240
1-23-1124	1-23-2124	M24	15	5.5	12	48	130	270

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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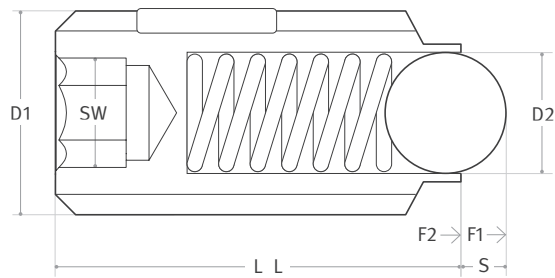
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Hexagon and ball, strengthened spring force and nylon thread lock



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Ball Ø	L	S	SW	Spring force Start F2 ≈ N	Spring force End F2 ≈ N	Screw-in torque (N)	Screw-out torque (N)
1-23-1103-LL	1-23-2103-LL	M3	1.5	9	0.5	15	5	7	0.1	0.08
1-23-1104-LL	1-23-2104-LL	M4	2.5	10	0.8	2	12	22	0.2	0.12
1-23-1105-LL	1-23-2105-LL	M5	3	14	0.9	3	19	30	0.31	0.17
1-23-1106-LL	1-23-2106-LL	M6	3.5	15	1	3	28	40	0.43	0.2
1-23-1108-LL	1-23-2108-LL	M8	5	16	1.5	4	47	73	1.09	0.38
1-23-1110-LL	1-23-2110-LL	M10	6	23	2	5	66	100	1.4	0.65
1-23-1112-LL	1-23-2112-LL	M12	8	26	2.5	6	66	120	2	1.35
1-23-1116-LL	1-23-2116-LL	M16	10	33	3.5	8	90	180	3.98	2.95

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

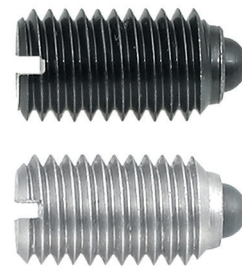
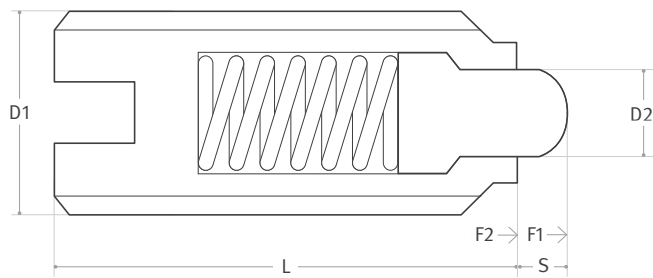
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel
Thread lock	Nylon thread, white



Spring plunger

Slot and bolt, standard spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Bolt Ø	S	L	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-25-1004	1-25-2004	M4	1.8	1.5	9	6	16
1-25-1005	1-25-2005	M5	2.4	2	12	6	17
1-25-1006	1-25-2006	M6	2.7	2	14	7	18
1-25-1008	1-25-2008	M8	4	2	16	20	35
1-25-1010	1-25-2010	M10	4.5	2.5	19	20	45
1-25-1012	1-25-2012	M12	6	3.5	22	25	60
1-25-1016	1-25-2016	M16	8.5	4.5	24	50	95
1-25-1020	1-25-2020	M20	10	6.5	30	80	140
1-25-1024	1-25-2024	M24	12	8	34	100	180

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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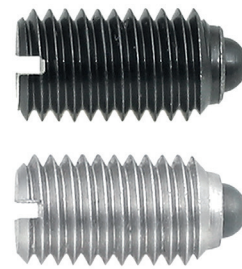
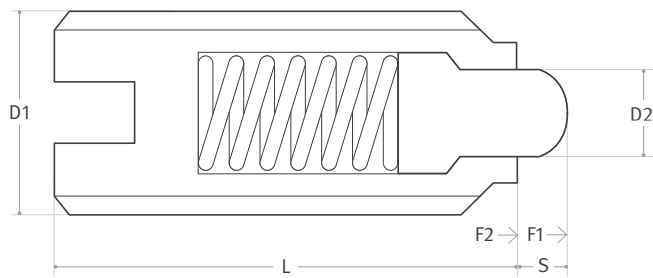
Material • Technical data

Housing	Burnished machining steel or hardened stainless steel
Bolt	Hardened machining steel or hardened stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Slot and bolt, strengthened spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Bolt Ø	S	L	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-25-1104	1-25-2104	M4	1.8	1.5	9	9	22
1-25-1105	1-25-2105	M5	2.4	2	12	9	25
1-25-1106	1-25-2106	M6	2.7	2	14	11	25
1-25-1108	1-25-2108	M8	4	2	16	22	45
1-25-1110	1-25-2110	M10	4.5	2.5	19	22	55
1-25-1112	1-25-2112	M12	6	3.5	22	36	95
1-25-1116	1-25-2116	M16	8.5	4.5	24	60	110

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

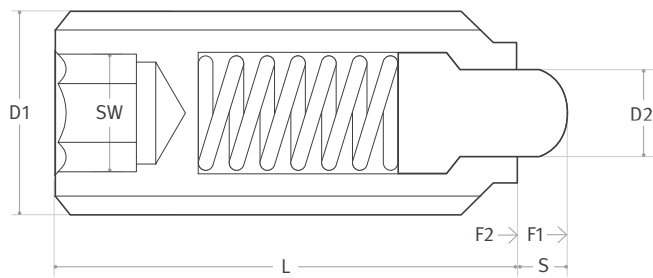
Material • Technical data

Housing	Burnished machining steel or hardened stainless steel
Bolt	Hardened machining steel or hardened stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Hexagon socket and bolt, standard spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Bolt Ø	S	SW	L	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-25-1004-ISK	1-25-2004-ISK	M4	1.8	1.5	2	10	6	16
1-25-1005-ISK	1-25-2005-ISK	M5	2.4	2	3	14	6	17
1-25-1006-ISK	1-25-2006-ISK	M6	2.7	2	3	15	7	18
1-25-1008-ISK	1-25-2008-ISK	M8	4	2	4	16	20	35
1-25-1010-ISK	1-25-2010-ISK	M10	4.5	2.5	5	23	20	45
1-25-1012-ISK	1-25-2012-ISK	M12	6	3.5	6	26	25	60
1-25-1016-ISK	1-25-2016-ISK	M16	8.5	4.5	8	33	50	95
1-25-1020-ISK	1-25-2020-ISK	M20	10	6.5	10	43	80	140
1-25-1024-ISK	1-25-2024-ISK	M24	12	8	12	48	100	180

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

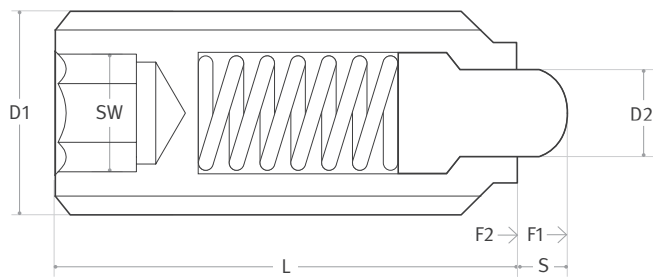
Material • Technical data

Housing	Burnished machining steel or hardened stainless steel
Bolt	Hardened machining steel or hardened stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Hexagon socket and bolt, strengthened spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2 Bolt Ø	S	SW	L	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-25-1106-ISK	1-25-2106-ISK	M6	2.7	2	3	15	11	25
1-25-1108-ISK	1-25-2108-ISK	M8	4	2	4	16	22	45
1-25-1110-ISK	1-25-2110-ISK	M10	4.5	2.5	5	23	22	55
1-25-1112-ISK	1-25-2112-ISK	M12	6	3.5	6	26	36	95
1-25-1116-ISK	1-25-2116-ISK	M16	8.5	4.5	8	33	60	110
1-25-1120-ISK	1-25-2120-ISK	M20	10	6.5	10	43	100	200
1-25-1124-ISK	1-25-2124-ISK	M24	12	8	12	48	110	230

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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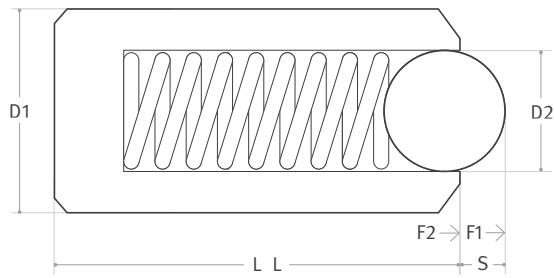
Material • Technical data

Housing	Burnished machining steel or hardened stainless steel
Bolt	Hardened machining steel or hardened stainless steel
Spring	Stainless steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Smooth design without collar, standard spring force



Art. No.	D1	D2	S	L	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
Stainless steel	± 0.03	Ball Ø	+ 0.2 – 0.1			
1-26-2030	3	2	0.65	7	4.5	7.5
1-26-2035	3.5	2.5	0.8	9	6	14.5
1-26-2040	4	3	0.9	11	8	14.5
1-26-2045	4.5	3.2	0.95	12	9.5	16.5
1-26-2050	5	3.5	1	13	11	18
1-26-2055	5.5	4	1.2	14	15.5	25
1-26-2060	6	4.5	1.5	15	18	31

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

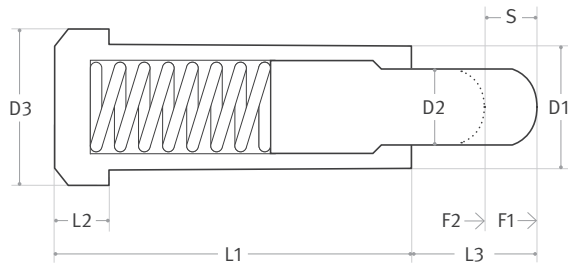
Material · Technical data

Housing	Stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel, reinforced version also possible



Spring plunger

Head and bolt, standard spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1 - 0.1	D2 Bolt Ø	D3	S	L1	L2	L3	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-27-1008	1-27-2008	8	3.9	10	4.5	24	3	8	30	90
1-27-1010	1-27-2010	10	5.9	13	5.5	30	4	10	42	110
1-27-1012	1-27-2012	12	7.9	16	6.5	36	5	12	50	130

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
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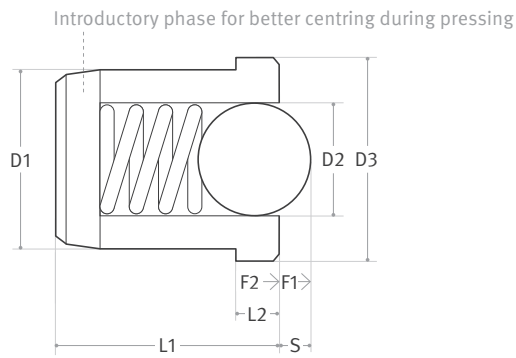
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened machining steel or hardened stainless steel
Spring	Stainless steel, reinforced version also possible



Spring plunger

Smooth design, standard spring force



Art. No. Ball Stainless steel	Art. No. Ball POM	D1 +0.1	D2 Ball Ø	D3	S	L1	L2	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-28-2003	1-28-4003	3	2.5	3.5	0.7	4	0.6	1.7	3.6
1-28-2004	1-28-4004	4	3	4.6	0.7	5	1	3	7
1-28-2005	1-28-4005	5	4	5.6	1	6	1	4	7
1-28-2006	1-28-4006	6	5	6.5	1.5	7	1	6	12
1-28-2008	1-28-4008	8	6.5	8.5	1.8	9	1	6	12
1-28-2010	1-28-4010	10	8	11	3	13.5	19	10	20
1-28-2012	1-28-4012	12	10	14	3.5	16	25	13	25

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

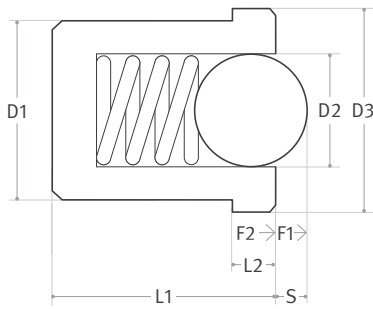
Material • Technical data

Housing	Stainless steel
Ball	Hardened stainless steel or POM (Thermoplastic)
Spring	Stainless steel, reinforced version also possible



Spring plunger

Smooth design, standard spring force



Art. No. Ball stainless steel	Art. No. Ball POM	D1 +0.1	D2 Ball Ø	D3	S	L1	L2	Spring force Start F ₁ ≈ N	Spring force End F ₂ ≈ N
1-28-3004	1-28-5004	4	3	4.6	0.7	5	1	3	7
1-28-3005	1-28-5005	5	4	5.6	1	6	1	4	7
1-28-3006	1-28-5006	6	5	6.5	1.5	7	1	6	12
1-28-3008	1-28-5008	8	6.5	8.5	1.8	9	1	6	12
1-28-3010	1-28-5010	10	8	11	3	13.5	1.9	10	20

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

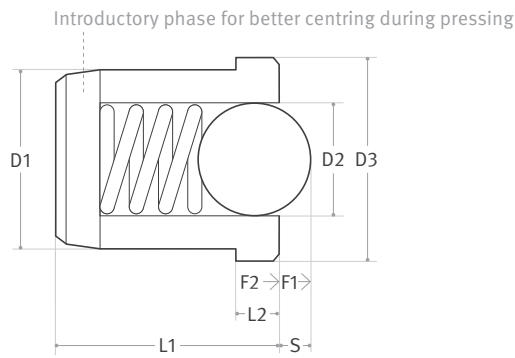
Material • Technical data

Housing	POM (Thermoplastic)
Ball	Hardened stainless steel or POM (Thermoplastic)
Spring	Stainless steel, reinforced version also possible



Spring plunger

Smooth design, standard spring force



Art. No. Ball stainless steel	Art. No. Ball POM	D1 +0.1	D2 Ball Ø	D3	S	L1	L2	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-28-6003	1-28-8003	3	2.5	3.5	0.7	4	0.6	1.7	3.6
1-28-6004	1-28-8004	4	3	4.6	0.7	5	1	3	7
1-28-6005	1-28-8005	5	4	5.6	1	6	1	4	7
1-28-6006	1-28-8006	6	5	6.5	1.5	7	1	6	12
1-28-6008	1-28-8008	8	6.5	8.5	1.8	9	1	6	12
1-28-6010	1-28-8010	10	8	11	3	13.5	1.9	10	20
1-28-6012	1-28-8012	12	10	14	3.5	16	2.5	13	25

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

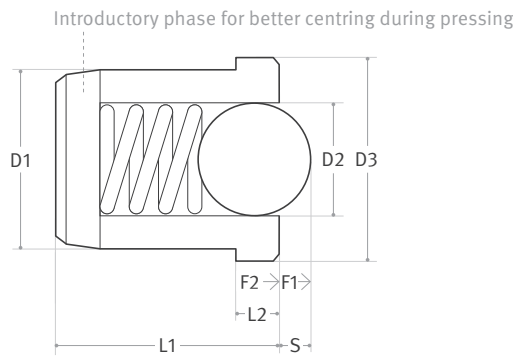
Material • Technical data

Housing	Brass
Ball	Hardened stainless steel or POM (Thermoplastic)
Spring	Stainless steel, reinforced version also possible



Spring plunger

Smooth design, extended ball outlet, standard spring force



Art. Nr. Ball stainless steel	Art. Nr. Ball POM	D1 + 0.1	D2 Ball Ø	D3	S	L1	L2	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-2428-2004-KA1,0	1-2428-4004-KA1,0	4	3	4.6	1	5	0.9	3	7
1-2428-2005-KA1,4	1-2428-4005-KA1,4	5	4	5.6	1.4	6	0.9	4	7
1-2428-2006-KA1,8	1-2428-4006-KA1,8	6	5	6.5	1.8	7	1	6	12
1-2428-2008-KA2,4	1-2428-4008-KA2,4	8	6.5	8.5	2.4	9	1.1	7	125
1-2428-2010-KA3,3	1-2428-4010-KA3,3	10	8	11	3.3	13.5	1.9	10	20
1-2428-2012-KA4,0	1-2428-4012-KA4,0	12	10	14	4	16	2.5	13	25

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

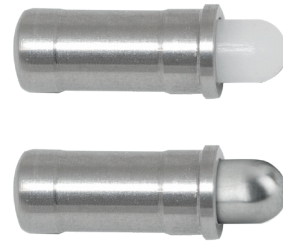
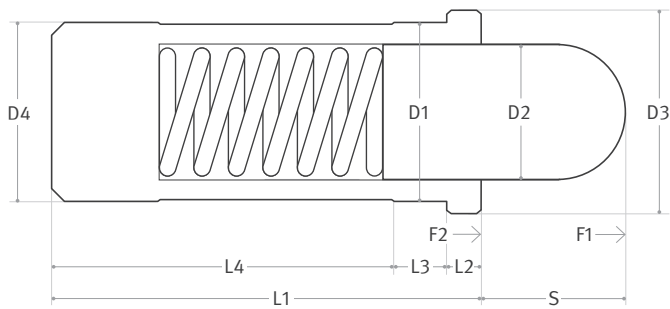
Material • Technical data

Housing	Stainless steel
Ball	Hardened stainless steel or POM (Thermoplastic)
Spring	Stainless steel, reinforced version also possible



Spring plunger

Smooth design with collar and bolt, standard spring force



Art. No. Bolt stainless steel	Art. No. Bolt POM	D1	D2	D3	D4	L1	L2	L3	L4	S
1-28-2004-BE	1-28-4004-BK	4	2.8	4.6	4	10.7	0.9	1.8	5.6	2.7
1-28-2005-BE	1-28-4005-BK	5	3.8	5.6	5	12	0.9	2.1	6	4
1-28-2006-BE	1-28-4006-BK	6	4.8	6.5	6	15	1	2.3	8.2	5.5
1-28-2008-BE	1-28-4008-BK	8	6.2	8.5	8	18	1.1	2.9	9.5	6.5
1-28-2010-BE	1-28-4010-BK	10	8	11	10	26	1.5	4.2	14.3	8

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

Material • Technical data

Housing

Stainless steel (also available as long version)

Bolt

Hardened stainless steel or POM (Thermoplastic)

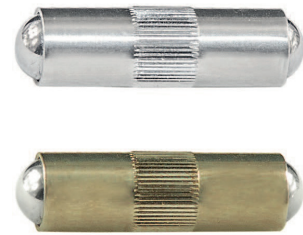
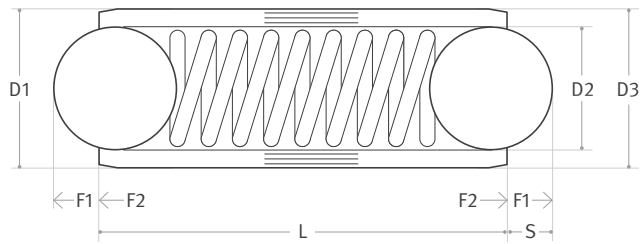
Spring

Stainless steel, reinforced version also possible



Double-sided plunger

Smooth design with knurl, standard spring force



Art. No. Stainless steel	Art. No. Brass	D1 h10	D2 Ball Ø	D3 Knurl Ø - 0.05	S	L	Spring force Start F1 ≈ N	Spring force End F1 ≈ N
1-28-2002,5-K2	1-28-6002,5-K2	2.5	2	2.52	0.65	5.3	1.3	2.5
1-28-2003-K2	1-28-6003-K2	3	2.5	3.02	0.8	7.3	2	4.5
1-28-2004-K2	1-28-6004-K2	4	3	4.03	0.9	9	2.5	7.5
1-28-2005-K2	1-28-6005-K2	5	4	5.03	1.2	10.8	3.5	8
1-28-2006-K2	1-28-6006-K2	6	5	6.03	1.6	12.6	3.5	10.5
1-28-2007-K2	1-28-6007-K2	7	6	7.03	2	14	4	12
1-28-2008-K2	1-28-6008-K2	8	6.5	8.03	2.1	18	6	15

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

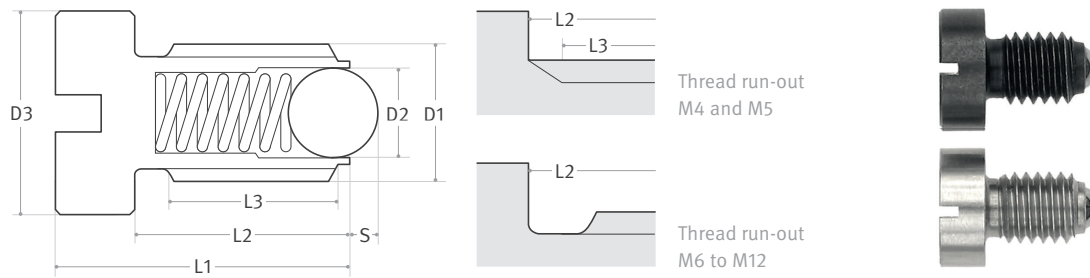
Material • Technical data

Housing	Stainless steel or brass
Ball	Hardened stainless steel
Spring	Stainless steel



Spring plunger

Slot and ball, standard spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2	D3	S	L1	L2	L3	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-29-1004	1-29-2004	M4	2.5	6	0.8	9	6.3	4.5	6	12
1-29-1005	1-29-2005	M5	3	8	0.9	12	8.3	6.5	9	14
1-29-1006	1-29-2006	M6	3.5	10	1	14	8.8	—	11	16
1-29-1008	1-29-2008	M8	5	13	1.5	16	10.8	—	18	30
1-29-1010	1-29-2010	M10	6	16	2	20	13.8	—	24	45
1-29-1012	1-29-2012	M12	8	18	2.5	22	14.8	—	35	60

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

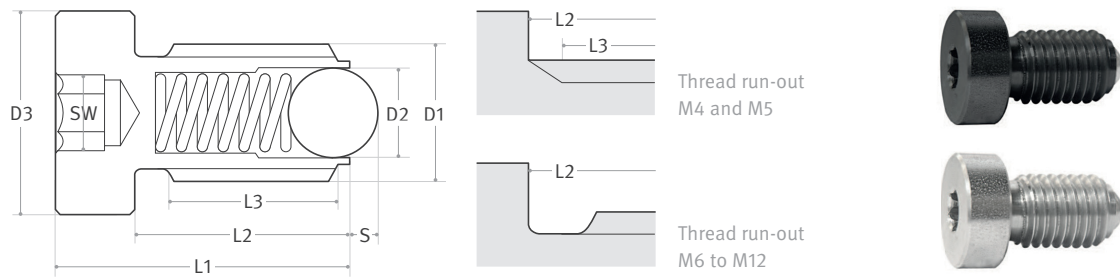
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel, reinforced version also possible
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Hexagon socket and ball, standard spring force



Art. No. Burnished steel	Art. No. Stainless steel	D1	D2	D3	S	L1	L2	L3	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-29-1004-ISK	1-29-2004-ISK	M4	2.5	6	0.8	11.5	8.8	7	2	6	12
1-29-1005-ISK	1-29-2005-ISK	M5	3	8	0.9	13.5	9.8	8	2.5	9	14
1-29-1006-ISK	1-29-2006-ISK	M6	3.5	10	1	15	9.8	–	3	11	16
1-29-1008-ISK	1-29-2008-ISK	M8	5	16	1.5	17.5	12.3	–	4	18	30
1-29-1010-ISK	1-29-2010-ISK	M10	6	16	2	23	16.8	–	5	24	45
1-29-1012-ISK	1-29-2012-ISK	M12	8	18	2.5	26	18.8	–	6	35	60

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

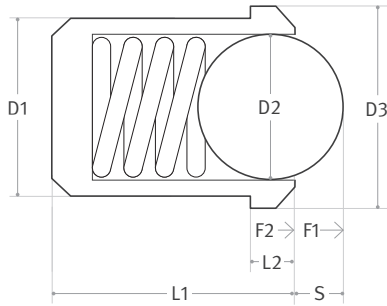
Material • Technical data

Housing	Burnished machining steel or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel, reinforced version also possible
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Spring plunger

Locking mechanism



Art. No. Brass	Art. No. Stainless steel	D1 +0,1	D2 Ball Ø	D3	S	L1	L2	Spring force Start F ₁ ≈ N	Spring force End F ₂ ≈ N
3-0100-00	3-0100-00-VA	4.85	5/32	5.5	1.4	6.6	1.75	4	6
3-0100-10	3-0100-10-VA	4.85	5/32	5.5	1.4	6.6	1.75	11	16
3-0100-20	3-0100-20-VA	4.85	5/32	5.5	1.4	6.6	1.75	12	22
3-0100-30	3-0100-30-VA	4.85	5/32	5.5	1.4	6.6	1.75	3	6.5
3-0100-40	3-0100-40-VA	4.85	5/32	5.5	1.4	6.6	1.75	12	35

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

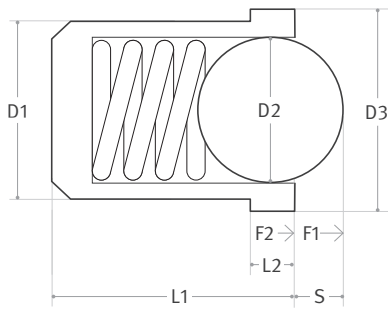
Material • Technical data

Housing	Brass or stainless steel
Ball	Hardened stainless steel
Spring	Stainless steel



Spring plunger

Locking mechanism



Art. No. Ball stainless steel	Art. No. Ball POM	D1 +0,1	D2 Ball Ø	D3	S	L1	L2	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
3-0100-00-GK	3-0100-00-KK	4.85	5/32	5.5	1.3	6.6	1.3	6	9
3-0100-10-GK	3-0100-10-KK	4.85	5/32	5.5	1.3	6.6	1.3	11	16
3-0100-20-GK	3-0100-20-KK	4.85	5/32	5.5	1.3	6.6	1.3	18	23
3-0100-30-GK	3-0100-30-KK	4.85	5/32	5.5	1.3	6.6	1.3	3	6.5
3-0100-40-GK	3-0100-40-KK	4.85	5/32	5.5	1.3	6.6	1.3	12	35

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

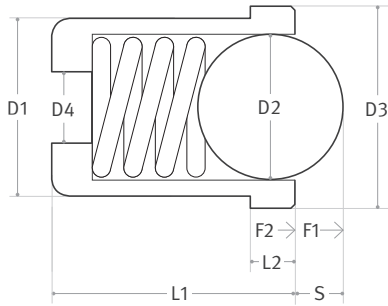
Material • Technical data

Housing	POM (Thermoplastic)
Ball	Hardened stainless steel or POM (Thermoplast)
Spring	Stainless steel, reinforced version also possible



Spring plunger

Smooth design, standard spring force



Art. Nr.	D1	D2	D3	D4	S	L1	L2	Spring force	Spring force
Messing		Ball Ø			± 0.1			Start F1 ≈ N	End F2 ≈ N
3-0200-00	6	5	6.5	2	1.85	7	1	6	9

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

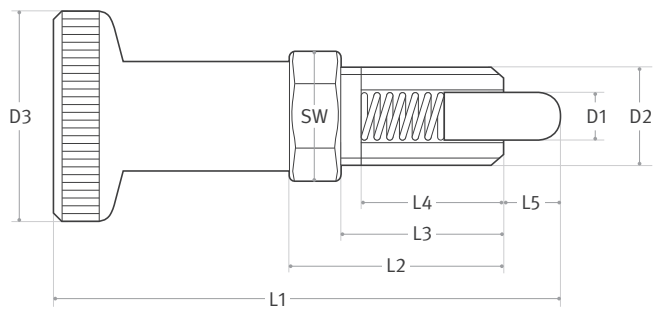
Material • Technical data

Housing	Brass
Ball	Hardened stainless steel
Spring	Stainless steel, reinforced version also possible



Indexing plunger without rest position

Great overall height, precise positioning



Art. No. Burnished steel	Art. No. Stainless steel	D1 Bolt h ₉	D2	D3	L1 ≈	L2	L3	L4 min.	L5	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-30-1005	1-30-2005	5	M10x1	21	45	22	17	15	5	12	6	15
1-30-1006	1-30-2006	6	M12x1.5	25	54.5	26	20	17	6	14	8	21
1-30-1008	1-30-2008	8	M16x1.5	31	68	34	26	23	8	19	9	26
1-30-1010	1-30-2010	10	M20x1.5	31	80	43	33	30	10	22	17	40

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

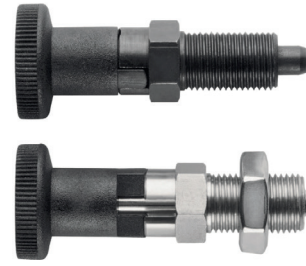
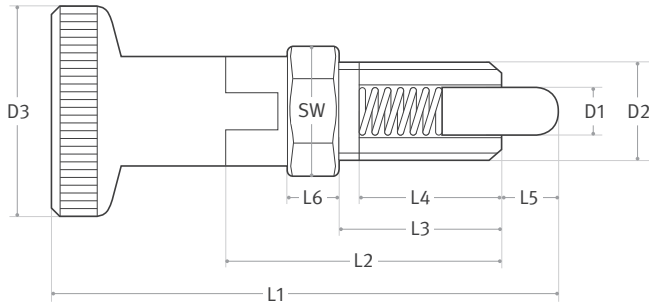
Material • Technical data

Pass tolerance	0.03 mm – 0.06 mm
Housing	Burnished machining steel or stainless steel
Bolt	Burnished or bare stainless steel (hardened on request)
Spring	Stainless steel, reinforced version also possible
Ring	Polyamide
Lock nut	DIN EN ISO 8675 Burnished or stainless steel Please specify when ordering: Version 1-30 without lock nut or 1-30K with lock nut Thread lock: On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.
Thread lock	



Indexing plunger with rest position

Great overall height, precise positioning



Art. No. Burnished steel	Art. No. Stainless steel	D1 Bolt h ₉	D2	D3	L1 ≈	L2	L3	L4 min.	L5	L6	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-30R-1005	1-30R-2005	5	M10x1	21	45	22	17	15	5	5	12	6	15
1-30R-1006	1-30R-2006	6	M12x1.5	25	54.5	26	20	17	6	6	14	8	21
1-30R-1008	1-30R-2008	8	M16x1.5	31	68	34	26	23	8	8	19	9	26
1-30R-1010	1-30R-2010	10	M20x1.5	31	80	43	33	30	10	10	22	17	40

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

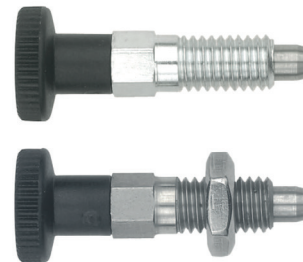
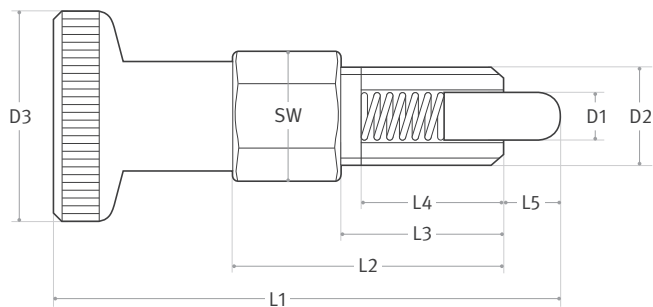
Material • Technical data

Pass tolerance	0.03 mm – 0.06 mm
Housing	Burnished machining steel or stainless steel
Bolt	Burnished or bare stainless steel (hardened on request)
Spring	Stainless steel, reinforced version also possible
Ring	Polyamide
Lock nut	DIN EN ISO 8675 Burnished or stainless Please specify when ordering: Version 1-30R without lock nut or 1-30RK with lock nut
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Indexing plunger without rest position

Small overall height



Art. No. Galvanized steel	Art. Nr. Stainless steel	D1 Bolt h9	D2	D3	L1 ≈	L2	L3	L4 min.	L5	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-31-1006	1-31-2006	4	M6	12	31	16.5	12	10	4	6	3	12
1-31-1008	1-31-2008	5	M8	16	40	22	16	13.5	5	8	5	22
1-31-1010	1-31-2010	6	M10	18	49	27.5	20	17	6	10	5	22
1-31-1012	1-31-2012	8	M12	21	59	33	24	20.5	8	12	6	22

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

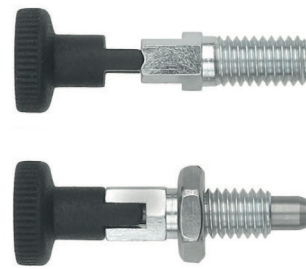
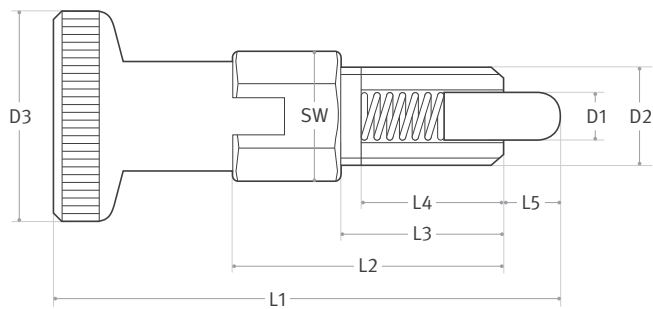
Material • Technical data

Pass tolerance	0.07 mm – 0.12 mm, precise positioning not possible
Housing	Galvanized machining steel and blue chrome-plated or stainless steel
Bolt	Stainless steel (hardened on request)
Spring	Stainless steel, reinforced version also possible
Ring	Polyamide
Lock nut	DIN EN ISO 4035 Please specify when ordering: Version 1-31 without lock nut or 1-31K with lock nut
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Indexing plunger with rest position

Small overall height



Art. No. Galvanized steel	Art. No. Stainless steel	D1 Bolt h9	D2	D3	L1 ≈	L2	L3	L4 min.	L5	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-31R-1006	1-31R-2006	4	M6	12	33	19	12	10	4	6	3	12
1-31R-1008	1-31R-2008	5	M8	16	43.5	25.5	16	13.5	5	8	5	22
1-31R-1010	1-31R-2010	6	M10	18	52	30.5	20	17	6	10	5	22
1-31R-1012	1-31R-2012	8	M12	21	64	37.5	24	20.5	8	12	6	22

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

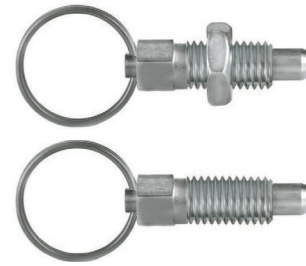
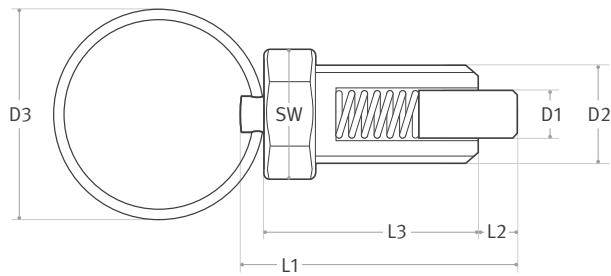
Material • Technical data

Pass tolerance	0.07 mm – 0.12 mm, precise positioning not possible
Housing	Galvanized machining steel and blue chrome-plated or stainless steel
Bolt	Stainless steel (hardened on request)
Spring	Stainless steel, reinforced version also possible
Ring	Polyamide
Lock nut	DIN EN ISO 4035 Please specify when ordering: Version 1-31R without lock nut or 1-31RK with lock nut
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Indexing plunger with pull ring

Regular thread



Art. No. Galvanized steel	Art. No. Stainless steel	D1	D2	D3	L1	L2 min.	L3	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-36-1006-B3	1-36-2006-B3	3	M6	14	23	4	12	6	3	12
1-36-1006-B4	1-36-2006-B4	4	M6	14	23	4	12	6	3	12
1-36-1008-B5	1-36-2008-B5	5	M8	18	30	5	16	8	5	24
1-36-1010-B6	1-36-2010-B6	6	M10	24	36	6	20	10	5	21
1-36-1012-B8	1-36-2012-B8	8	M12	30	44	8	24	12	6	22

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

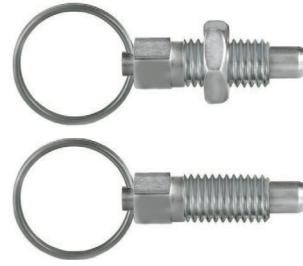
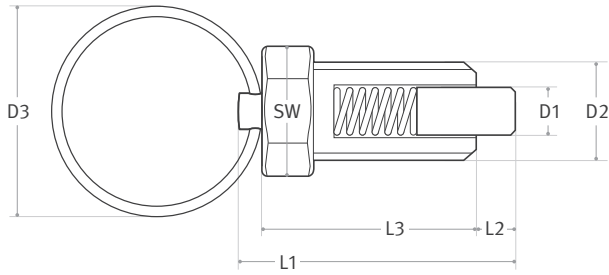
Material • Technical data

Pass tolerance	0.07 mm – 0.12 mm, precise positioning not possible
Housing	Galvanized machining steel and blue chrome-plated or stainless steel
Bolt	Stainless steel (hardened on request)
Spring	Stainless steel, reinforced version also possible
Ring	Stainless steel
Lock nut	DIN EN ISO 4035 Please specify when ordering: Version 1-36 without lock nut or 1-36K with lock nut
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Indexing plunger with pull ring

Fine thread



Art. No. Galvanized steel	Art. No. Stainless steel	D1	D2	D3	L1	L2 min.	L3	SW	Spring force Start F1 ≈ N	Spring force End F2 ≈ N
1-36FG-1006-B3	1-36FG-2006-B3	3	M6x0.75	14	23	4	12	6	6	12
1-36FG-1006-B4	1-36FG-2006-B4	4	M6x0.75	14	23	4	12	6	6	12
1-36FG-1008-B5	1-36FG-2008-B5	5	M8x1	18	30	5	16	8	8	24
1-36FG-1010-B6	1-36FG-2010-B6	6	M10x1	24	36	6	20	10	10	21
1-36FG-1012-B8	1-36FG-2012-B8	8	M12x1.5	30	44	8	24	12	12	22

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

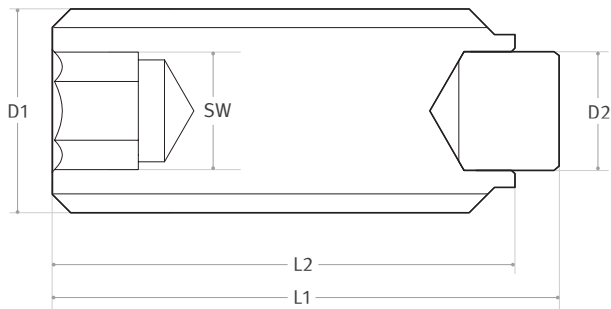
Material • Technical data

Pass tolerance	0.07 mm – 0.12 mm, precise positioning not possible
Housing	Galvanized machining steel and blue chrome-plated or stainless steel
Bolt	Stainless steel (hardened on request)
Spring	Stainless steel, reinforced version also possible
Ring	Stainless steel
Lock nut	DIN EN ISO 4035 Please specify when ordering: Version 1-36FG without lock nut or 1-36FGK with lock nut
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Thrust screws with bolt

Thread size **M3 – M12**, strength class **5.8**



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-03-05,5-5.8	3-1927-03-MS-05,5-5.8	M3	1.55	5.5	4.5	1.5
3-1927-03-06,5-5.8	3-1927-03-MS-06,5-5.8	M3	1.55	6.5	5.5	1.5
3-1927-03-07,5-5.8	3-1927-03-MS-07,5-5.8	M3	1.55	7.5	6.5	1.5
3-1927-03-08,5-5.8	3-1927-03-MS-08,5-5.8	M3	1.55	8.5	7.5	1.5
3-1927-03-10,5-5.8	3-1927-03-MS-10,5-5.8	M3	1.55	10.5	9.5	1.5

M3

3-1927-04-06,5-5.8	3-1927-04-MS-06,5-5.8	M4	2.6	6.5	5,5	2
3-1927-04-07,0-5.8	3-1927-04-MS-07,0-5.8	M4	2.6	7	6	2
3-1927-04-08,0-5.8	3-1927-04-MS-08,0-5.8	M4	2.6	8	7	2
3-1927-04-09,0-5.8	3-1927-04-MS-09,0-5.8	M4	2.6	9	8	2
3-1927-04-10,5-5.8	3-1927-04-MS-10,5-5.8	M4	2.6	10.5	9.5	2
3-1927-04-11,0-5.8	3-1927-04-MS-11,0-5.8	M4	2.6	11	10	2
3-1927-04-13,0-5.8	3-1927-04-MS-13,0-5.8	M4	2.6	13	12	2
3-1927-04-16,5-5.8	3-1927-04-MS-16,5-5.8	M4	2.6	16.5	15.5	2
3-1927-04-21,0-5.8	3-1927-04-MS-21,0-5.8	M4	2.6	21	20	2
3-1927-04-30,5-5.8	3-1927-04-MS-30,5-5.8	M4	2.6	30.5	29.5	2
3-1927-04-40,5-5.8	3-1927-04-MS-40,5-5.8	M4	2.6	40.5	39.5	2

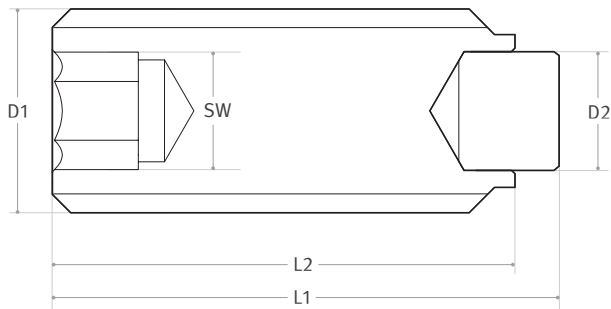
M4

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.



Thrust screws with bolt

Thread size **M3 – M12**, strength class **5.8**



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-05-08,5-5.8	3-1927-05-MS-08,5-5.8	M5	3	8.5	7	2.5
3-1927-05-09,0-5.8	3-1927-05-MS-09,0-5.8	M5	3	9	7.5	2.5
3-1927-05-10,0-5.8	3-1927-05-MS-10,0-5.8	M5	3	10	8.5	2.5
3-1927-05-10,5-5.8	3-1927-05-MS-10,5-5.8	M5	3	10.5	9	2.5
3-1927-05-11,0-5.8	3-1927-05-MS-11,0-5.8	M5	3	11	9.5	2.5
3-1927-05-12,5-5.8	3-1927-05-MS-12,5-5.8	M5	3	12.5	11	2.5
3-1927-05-13,0-5.8	3-1927-05-MS-13,0-5.8	M5	3	13	11.5	2.5
3-1927-05-14,5-5.8	3-1927-05-MS-14,5-5.8	M5	3	14.5	13	2.5
3-1927-05-16,0-5.8	3-1927-05-MS-16,0-5.8	M5	3	16	14.5	2.5
3-1927-05-17,0-5.8	3-1927-05-MS-17,0-5.8	M5	3	17	15.5	2.5
3-1927-05-20,5-5.8	3-1927-05-MS-20,5-5.8	M5	3	20.5	19	2.5
3-1927-05-26,0-5.8	3-1927-05-MS-26,0-5.8	M5	3	26	24.5	2.5
3-1927-05-30,5-5.8	3-1927-05-MS-30,5-5.8	M5	3	30.5	29	2.5
3-1927-05-40,5-5.8	3-1927-05-MS-40,5-5.8	M5	3	40.5	39	2.5

M5

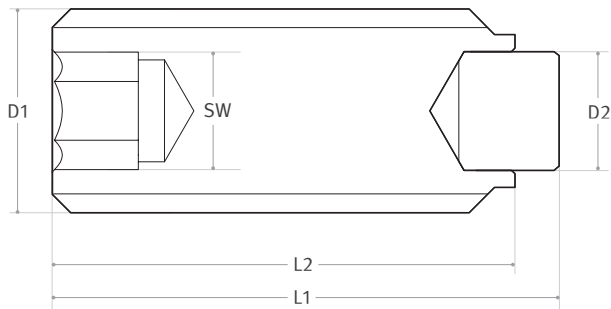
3-1927-06-10,0-5.8	3-1927-06-MS-10,0-5.8	M6	4	10	8	3
3-1927-06-11,5-5.8	3-1927-06-MS-11,5-5.8	M6	4	11.5	9.5	3
3-1927-06-13,5-5.8	3-1927-06-MS-13,5-5.8	M6	4	13.5	11.5	3
3-1927-06-17,5-5.8	3-1927-06-MS-17,5-5.8	M6	4	17.5	15.5	3
3-1927-06-21,5-5.8	3-1927-06-MS-21,5-5.8	M6	4	21.5	19.5	3
3-1927-06-26,5-5.8	3-1927-06-MS-26,5-5.8	M6	4	26.5	24.5	3
3-1927-06-33,5-5.8	3-1927-06-MS-33,5-5.8	M6	4	33.5	31.5	3
3-1927-06-41,5-5.8	3-1927-06-MS-41,5-5.8	M6	4	41.5	39.5	3
3-1927-06-51,5-5.8	3-1927-06-MS-51,5-5.8	M6	4	51.5	49.5	3
3-1927-06-61,5-5.8	3-1927-06-MS-61,5-5.8	M6	4	61.5	59.5	3

M6



Thrust screws with bolt

Thread size **M3 – M12**, strength class **5.8**



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-08-10,0-5.8	3-1927-08-MS-10,0-5.8	M8	5.6	10	7.5	4
3-1927-08-12,0-5.8	3-1927-08-MS-12,0-5.8	M8	5.6	12	9.5	4
3-1927-08-14,0-5.8	3-1927-08-MS-14,0-5.8	M8	5.6	14	11.5	4
3-1927-08-18,0-5.8	3-1927-08-MS-18,0-5.8	M8	5.6	18	15.5	4
3-1927-08-20,0-5.8	3-1927-08-MS-20,0-5.8	M8	5.6	20	17.5	4
3-1927-08-22,0-5.8	3-1927-08-MS-22,0-5.8	M8	5.6	22	19.5	4
3-1927-08-27,0-5.8	3-1927-08-MS-27,0-5.8	M8	5.6	27	24.5	4
3-1927-08-32,0-5.8	3-1927-08-MS-32,0-5.8	M8	5.6	32	29.5	4
3-1927-08-34,0-5.8	3-1927-08-MS-34,0-5.8	M8	5.6	34	31.5	4
3-1927-08-42,0-5.8	3-1927-08-MS-42,0-5.8	M8	5.6	42	39.5	4
3-1927-08-52,0-5.8	3-1927-08-MS-52,0-5.8	M8	5.6	52	49.5	4
3-1927-08-62,0-5.8	3-1927-08-MS-62,0-5.8	M8	5.6	62	59.5	4
3-1927-08-82,0-5.8	3-1927-08-MS-82,0-5.8	M8	5.6	82	79.5	4

M8

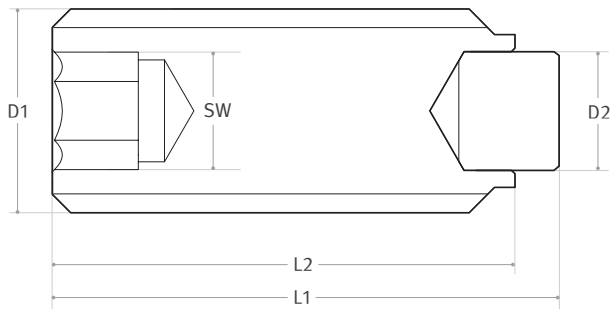
3-1927-10-14,0-5.8	3-1927-10-MS-14,0-5.8	M10	7.1	14	11	5
3-1927-10-16,0-5.8	3-1927-10-MS-16,0-5.8	M10	7.1	16	13	5
3-1927-10-18,0-5.8	3-1927-10-MS-18,0-5.8	M10	7.1	18	15	5
3-1927-10-22,0-5.8	3-1927-10-MS-22,0-5.8	M10	7.1	22	19	5
3-1927-10-27,0-5.8	3-1927-10-MS-27,0-5.8	M10	7.1	27	24	5
3-1927-10-30,0-5.8	3-1927-10-MS-30,0-5.8	M10	7.1	30	27	5
3-1927-10-34,0-5.8	3-1927-10-MS-34,0-5.8	M10	7.1	34	31	5
3-1927-10-37,0-5.8	3-1927-10-MS-37,0-5.8	M10	7.1	37	34	5
3-1927-10-42,0-5.8	3-1927-10-MS-42,0-5.8	M10	7.1	42	39	5
3-1927-10-52,0-5.8	3-1927-10-MS-52,0-5.8	M10	7.1	52	49	5
3-1927-10-62,0-5.8	3-1927-10-MS-62,0-5.8	M10	7.1	62	59	5
3-1927-10-65,0-5.8	3-1927-10-MS-65,0-5.8	M10	7.1	65	62	5
3-1927-10-82,0-5.8	3-1927-10-MS-82,0-5.8	M10	7.1	82	79	5

M10



Thrust screws with bolt

Thread size **M3 – M12**, strength class **5.8**



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-12-14,0-5.8	3-1927-12-MS-14,0-5.8	M12	7.1	14	11	6
3-1927-12-18,0-5.8	3-1927-12-MS-18,0-5.8	M12	7.1	18	15	6
3-1927-12-22,0-5.8	3-1927-12-MS-22,0-5.8	M12	7.1	22	19	6
3-1927-12-27,0-5.8	3-1927-12-MS-27,0-5.8	M12	7.1	27	24	6
3-1927-12-30,0-5.8	3-1927-12-MS-30,0-5.8	M12	7.1	30	27	6
3-1927-12-32,0-5.8	3-1927-12-MS-32,0-5.8	M12	7.1	32	29	6
3-1927-12-34,0-5.8	3-1927-12-MS-34,0-5.8	M12	7.1	34	31	6
3-1927-12-35,0-5.8	3-1927-12-MS-35,0-5.8	M12	7.1	35	32	6
3-1927-12-42,0-5.8	3-1927-12-MS-42,0-5.8	M12	7.1	42	39	6
3-1927-12-52,0-5.8	3-1927-12-MS-52,0-5.8	M12	7.1	52	49	6
3-1927-12-62,0-5.8	3-1927-12-MS-62,0-5.8	M12	7.1	62	59	6
3-1927-12-65,0-5.8	3-1927-12-MS-65,0-5.8	M12	7.1	65	62	6
3-1927-12-82,0-5.8	3-1927-12-MS-82,0-5.8	M12	7.1	82	79	6
3-1927-12-102,0-5.8	3-1927-12-MS-102,0-5.8	M12	7.1	102	99	6

M12

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

Material • Technical data

Housing

Burnished machining steel, strength class 5.8

Bolt

POM or brass

Thread lock

On request, based on standards

DIN 267-28 / Fasteners with locking coating

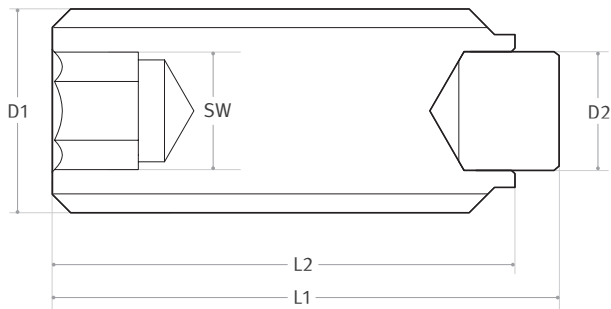
DIN 267-27 / Fasteners with adhesive and microencapsulated coatings

Designation examples: poly-surface, precote, etc.



Thrust screws with bolt

Thread size **M3 – M12**, strength class **10.9**



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-03-05,5	3-1927-03-MS-05,5	M3	1.55	5.5	4.5	1.5
3-1927-03-06,5	3-1927-03-MS-06,5	M3	1.55	6.5	5.5	1.5
3-1927-03-07,5	3-1927-03-MS-07,5	M3	1.55	7.5	6.5	1.5
3-1927-03-08,5	3-1927-03-MS-08,5	M3	1.55	8.5	7.5	1.5
3-1927-03-10,5	3-1927-03-MS-10,5	M3	1.55	10.5	8.5	1.5

3-1927-04-06,5	3-1927-04-MS-06,5	M4	2.6	6.5	5.5	2
3-1927-04-07,0	3-1927-04-MS-07,0	M4	2.6	7	6	2
3-1927-04-08,0	3-1927-04-MS-08,0	M4	2.6	8	7	2
3-1927-04-09,0	3-1927-04-MS-09,0	M4	2.6	9	8	2
3-1927-04-10,5	3-1927-04-MS-10,5	M4	2.6	10.5	9.5	2
3-1927-04-11,0	3-1927-04-MS-11,0	M4	2.6	11	10	2
3-1927-04-13,0	3-1927-04-MS-13,0	M4	2.6	13	12	2
3-1927-04-16,5	3-1927-04-MS-16,5	M4	2.6	16.5	15.5	2
3-1927-04-21,0	3-1927-04-MS-21,0	M4	2.6	21	20	2
3-1927-04-30,5	3-1927-04-MS-30,5	M4	2.6	30.5	29.5	2
3-1927-04-40,5	3-1927-04-MS-40,5	M4	2.6	40.5	39.5	2

M3

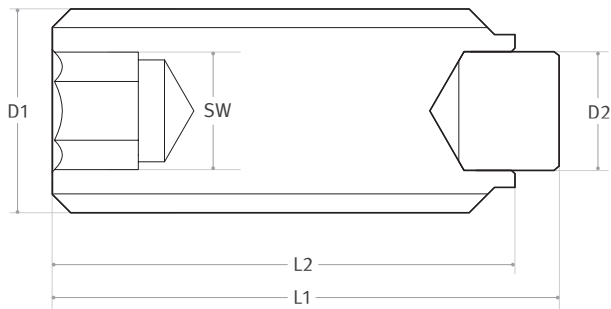
M4

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.



Thrust screws with bolt

Thread size M3 – M12, strength class 10.9



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-05-08,5	3-1927-05-MS-08,5	M5	3	8.5	7	2.5
3-1927-05-09,0	3-1927-05-MS-09,0	M5	3	9	7.5	2.5
3-1927-05-10,0	3-1927-05-MS-10,0	M5	3	10	8.5	2.5
3-1927-05-10,5	3-1927-05-MS-10,5	M5	3	10.5	9	2.5
3-1927-05-11,0	3-1927-05-MS-11,0	M5	3	11	9.5	2.5
3-1927-05-12,5	3-1927-05-MS-12,5	M5	3	12.5	11	2.5
3-1927-05-13,0	3-1927-05-MS-13,0	M5	3	13	11.5	2.5
3-1927-05-14,5	3-1927-05-MS-14,5	M5	3	14.5	13	2.5
3-1927-05-16,0	3-1927-05-MS-16,0	M5	3	16	14.5	2.5
3-1927-05-17,0	3-1927-05-MS-17,0	M5	3	17	15.5	2.5
3-1927-05-20,5	3-1927-05-MS-20,5	M5	3	20.5	19	2.5
3-1927-05-26,0	3-1927-05-MS-26,0	M5	3	26	24.5	2.5
3-1927-05-30,5	3-1927-05-MS-30,5	M5	3	30.5	29	2.5
3-1927-05-40,5	3-1927-05-MS-40,5	M5	3	40.5	39	2.5

M5

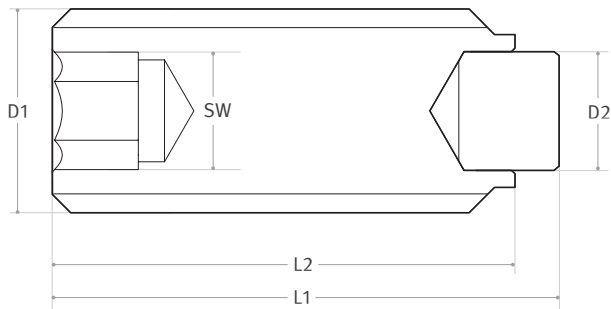
3-1927-06-10,0	3-1927-06-MS-10,0	M6	4	10	8	3
3-1927-06-11,5	3-1927-06-MS-11,5	M6	4	11.5	9.5	3
3-1927-06-13,5	3-1927-06-MS-13,5	M6	4	13.5	11.5	3
3-1927-06-17,5	3-1927-06-MS-17,5	M6	4	17.5	15.5	3
3-1927-06-21,5	3-1927-06-MS-21,5	M6	4	21.5	19.5	3
3-1927-06-26,5	3-1927-06-MS-26,5	M6	4	26.5	24.5	3
3-1927-06-33,5	3-1927-06-MS-33,5	M6	4	33.5	31.5	3
3-1927-06-41,5	3-1927-06-MS-41,5	M6	4	41.5	39.5	3
3-1927-06-51,5	3-1927-06-MS-51,5	M6	4	51.5	49.5	3
3-1927-06-61,5	3-1927-06-MS-61,5	M6	4	61.5	59.5	3

M6



Thrust screws with bolt

Thread size **M3 – M12**, strength class **10.9**



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-08-10,0	3-1927-08-MS-10,0	M8	5.6	10	7.5	4
3-1927-08-12,0	3-1927-08-MS-12,0	M8	5.6	12	9.5	4
3-1927-08-14,0	3-1927-08-MS-14,0	M8	5.6	14	11.5	4
3-1927-08-16,0	3-1927-08-MS-16,0	M8	5.6	16	13.5	4
3-1927-08-18,0	3-1927-08-MS-18,0	M8	5.6	18	15.5	4
3-1927-08-20,0	3-1927-08-MS-20,0	M8	5.6	20	17.5	4
3-1927-08-22,0	3-1927-08-MS-22,0	M8	5.6	22	19.5	4
3-1927-08-27,0	3-1927-08-MS-27,0	M8	5.6	27	24.5	4
3-1927-08-30,0	3-1927-08-MS-30,0	M8	5.6	30	27.5	4
3-1927-08-34,0	3-1927-08-MS-34,0	M8	5.6	34	31.5	4
3-1927-08-42,0	3-1927-08-MS-42,0	M8	5.6	42	39.5	4
3-1927-08-52,0	3-1927-08-MS-52,0	M8	5.6	52	49.5	4
3-1927-08-62,0	3-1927-08-MS-62,0	M8	5.6	62	59.5	4
3-1927-08-65,0	3-1927-08-MS-65,0	M8	5.6	65	62.5	4
3-1927-08-82,0	3-1927-08-MS-82,0	M8	5.6	82	79.5	4

M8

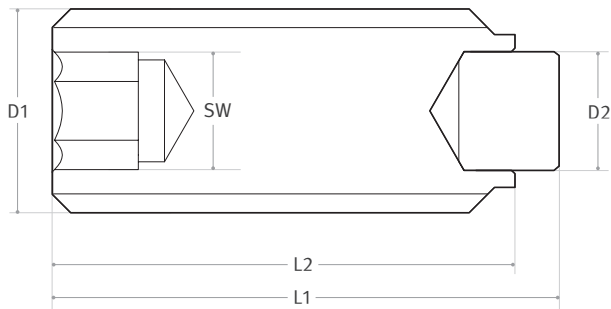
3-1927-10-14,0	3-1927-10-MS-14,0	M10	7.1	14	11	5
3-1927-10-16,0	3-1927-10-MS-16,0	M10	7.1	16	13	5
3-1927-10-18,0	3-1927-10-MS-18,0	M10	7.1	18	15	5
3-1927-10-22,0	3-1927-10-MS-22,0	M10	7.1	22	19	5
3-1927-10-27,0	3-1927-10-MS-27,0	M10	7.1	27	24	5
3-1927-10-30,0	3-1927-10-MS-30,0	M10	7.1	30	27	5
3-1927-10-34,0	3-1927-10-MS-34,0	M10	7.1	34	31	5
3-1927-10-42,0	3-1927-10-MS-42,0	M10	7.1	42	39	5
3-1927-10-52,0	3-1927-10-MS-52,0	M10	7.1	52	49	5
3-1927-10-62,0	3-1927-10-MS-62,0	M10	7.1	62	59	5
3-1927-10-65,0	3-1927-10-MS-65,0	M10	7.1	65	62	5
3-1927-10-82,0	3-1927-10-MS-82,0	M10	7.1	82	79	5

M10



Thrust screws with bolt

Thread size **M3 – M12**, strength class **10.9**



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-12-14,0	3-1927-12-MS-14,0	M12	7.1	14	11	6
3-1927-12-18,0	3-1927-12-MS-18,0	M12	7.1	18	15	6
3-1927-12-22,0	3-1927-12-MS-22,0	M12	7.1	22	19	6
3-1927-12-27,0	3-1927-12-MS-27,0	M12	7.1	27	24	6
3-1927-12-30,0	3-1927-12-MS-30,0	M12	7.1	30	27	6
3-1927-12-32,0	3-1927-12-MS-32,0	M12	7.1	32	29	6
3-1927-12-34,0	3-1927-12-MS-34,0	M12	7.1	34	31	6
3-1927-12-35,0	3-1927-12-MS-35,0	M12	7.1	35	32	6
3-1927-12-42,0	3-1927-12-MS-42,0	M12	7.1	42	39	6
3-1927-12-52,0	3-1927-12-MS-52,0	M12	7.1	52	49	6
3-1927-12-62,0	3-1927-12-MS-62,0	M12	7.1	62	59	6
3-1927-12-65,0	3-1927-12-MS-65,0	M12	7.1	65	62	6
3-1927-12-82,0	3-1927-12-MS-82,0	M12	7.1	82	79	6
3-1927-12-102,0	3-1927-12-MS-102,0	M12	7.1	102	99	6

M12

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

Material • Technical data

Housing

Bolt

Thread lock

Strength class 10.9

POM (Thermoplastic) or brass

On request, based on standards

DIN 267-28 / Fasteners with locking coating

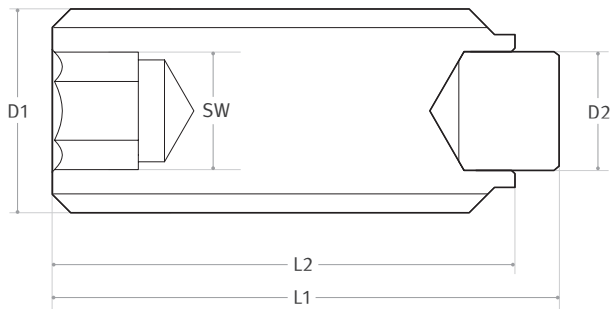
DIN 267-27 / Fasteners with adhesive and microencapsulated coatings

Designation examples: poly-surface, precote, etc.



Thrust screws with bolt

Thread size M3 – M12, stainless steel



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-03-05,5-VA	3-1927-03-MS-05,5-VA	M3	1.55	5.5	4.5	1.5
3-1927-03-06,5-VA	3-1927-03-MS-06,5-VA	M3	1.55	6.5	5.5	1.5
3-1927-03-07,5-VA	3-1927-03-MS-07,5-VA	M3	1.55	7.5	6.5	1.5
3-1927-03-08,5-VA	3-1927-03-MS-08,5-VA	M3	1.55	8.5	7.5	1.5
3-1927-03-10,5-VA	3-1927-03-MS-10,5-VA	M3	1.55	10.5	9.5	1.5

M3

3-1927-04-06,5-VA	3-1927-04-MS-06,5-VA	M4	2.6	6.5	5.5	2
3-1927-04-07,0-VA	3-1927-04-MS-07,0-VA	M4	2.6	7	6	2
3-1927-04-08,0-VA	3-1927-04-MS-08,0-VA	M4	2.6	8	7	2
3-1927-04-09,0-VA	3-1927-04-MS-09,0-VA	M4	2.6	9	8	2
3-1927-04-10,5-VA	3-1927-04-MS-10,5-VA	M4	2.6	10.5	9.5	2
3-1927-04-11,0-VA	3-1927-04-MS-11,0-VA	M4	2.6	11	10	2
3-1927-04-13,0-VA	3-1927-04-MS-13,0-VA	M4	2.6	13	12	2
3-1927-04-16,5-VA	3-1927-04-MS-16,5-VA	M4	2.6	16.5	15.5	2
3-1927-04-21,0-VA	3-1927-04-MS-21,0-VA	M4	2.6	21	20	2
3-1927-04-30,5-VA	3-1927-04-MS-30,5-VA	M4	2.6	30.5	29.5	2
3-1927-04-40,5-VA	3-1927-04-MS-40,5-VA	M4	2.6	40.5	39.5	2

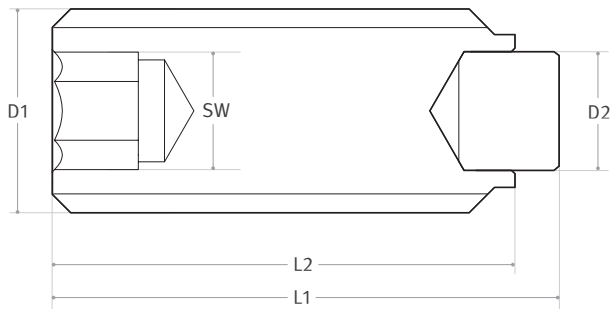
M4

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.



Thrust screws with bolt

Thread size M3 – M12, stainless steel



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-05-08,5-VA	3-1927-05-MS-08,5-VA	M5	3	8.5	7	2.5
3-1927-05-09,0-VA	3-1927-05-MS-09,0-VA	M5	3	9	7.5	2.5
3-1927-05-10,0-VA	3-1927-05-MS-10,0-VA	M5	3	10	8.5	2.5
3-1927-05-10,5-VA	3-1927-05-MS-10,5-VA	M5	3	10.5	9	2.5
3-1927-05-11,0-VA	3-1927-05-MS-11,0-VA	M5	3	11	9.5	2.5
3-1927-05-12,5-VA	3-1927-05-MS-12,5-VA	M5	3	12.5	11	2.5
3-1927-05-13,0-VA	3-1927-05-MS-13,0-VA	M5	3	13	11.5	2.5
3-1927-05-14,5-VA	3-1927-05-MS-14,5-VA	M5	3	14.5	13	2.5
3-1927-05-16,0-VA	3-1927-05-MS-16,0-VA	M5	3	16	14.5	2.5
3-1927-05-17,0-VA	3-1927-05-MS-17,0-VA	M5	3	17	15.5	2.5
3-1927-05-20,5-VA	3-1927-05-MS-20,5-VA	M5	3	20.5	19	2.5
3-1927-05-26,0-VA	3-1927-05-MS-26,0-VA	M5	3	26	24.5	2.5
3-1927-05-30,5-VA	3-1927-05-MS-30,5-VA	M5	3	30.5	29	2.5
3-1927-05-40,5-VA	3-1927-05-MS-40,5-VA	M5	3	40.5	39	2.5

M5

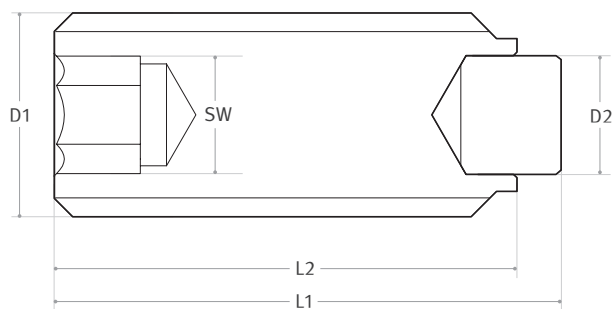
3-1927-06-10,0-VA	3-1927-06-MS-10,0-VA	M6	4	10	8	3
3-1927-06-11,5-VA	3-1927-06-MS-11,5-VA	M6	4	11.5	9.5	3
3-1927-06-13,5-VA	3-1927-06-MS-13,5-VA	M6	4	13.5	11.5	3
3-1927-06-17,5-VA	3-1927-06-MS-17,5-VA	M6	4	17.5	15.5	3
3-1927-06-21,5-VA	3-1927-06-MS-21,5-VA	M6	4	21.5	19.5	3
3-1927-06-26,5-VA	3-1927-06-MS-26,5-VA	M6	4	26.5	24.5	3
3-1927-06-33,5-VA	3-1927-06-MS-33,5-VA	M6	4	33.5	31.5	3
3-1927-06-41,5-VA	3-1927-06-MS-41,5-VA	M6	4	41.5	39.5	3
3-1927-06-51,5-VA	3-1927-06-MS-51,5-VA	M6	4	51.5	49.5	3
3-1927-06-61,5-VA	3-1927-06-MS-61,5-VA	M6	4	61.5	59.5	3

M6



Thrust screws with bolt

Thread size M3 – M12, stainless steel



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-08-10,0-VA	3-1927-08-MS-10,0-VA	M8	5.6	10	7.5	4
3-1927-08-12,0-VA	3-1927-08-MS-12,0-VA	M8	5.6	12	9.5	4
3-1927-08-14,0-VA	3-1927-08-MS-14,0-VA	M8	5.6	14	11.5	4
3-1927-08-18,0-VA	3-1927-08-MS-18,0-VA	M8	5.6	18	15.5	4
3-1927-08-20,0-VA	3-1927-08-MS-20,0-VA	M8	5.6	20	17.5	4
3-1927-08-22,0-VA	3-1927-08-MS-22,0-VA	M8	5.6	22	19.5	4
3-1927-08-27,0-VA	3-1927-08-MS-27,0-VA	M8	5.6	27	24.5	4
3-1927-08-32,0-VA	3-1927-08-MS-32,0-VA	M8	5.6	32	29.5	4
3-1927-08-34,0-VA	3-1927-08-MS-34,0-VA	M8	5.6	34	31.5	4
3-1927-08-42,0-VA	3-1927-08-MS-42,0-VA	M8	5.6	42	39.5	4
3-1927-08-52,0-VA	3-1927-08-MS-52,0-VA	M8	5.6	52	49.5	4
3-1927-08-62,0-VA	3-1927-08-MS-62,0-VA	M8	5.6	62	59.5	4
3-1927-08-82,0-VA	3-1927-08-MS-82,0-VA	M8	5.6	82	79.5	4

M8

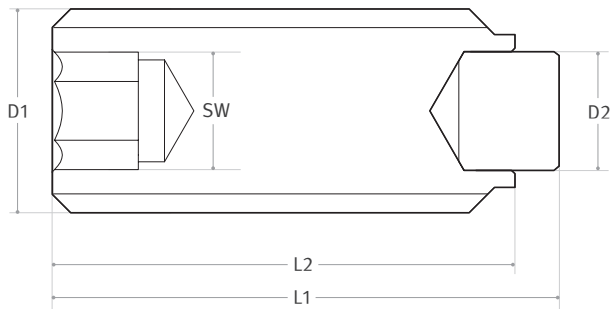
3-1927-10-14,0-VA	3-1927-10-MS-14,0-VA	M10	7.1	14	11	5
3-1927-10-16,0-VA	3-1927-10-MS-16,0-VA	M10	7.1	16	13	5
3-1927-10-18,0-VA	3-1927-10-MS-18,0-VA	M10	7.1	18	15	5
3-1927-10-22,0-VA	3-1927-10-MS-22,0-VA	M10	7.1	22	19	5
3-1927-10-27,0-VA	3-1927-10-MS-27,0-VA	M10	7.1	27	24	5
3-1927-10-30,0-VA	3-1927-10-MS-30,0-VA	M10	7.1	30	27	5
3-1927-10-34,0-VA	3-1927-10-MS-34,0-VA	M10	7.1	34	31	5
3-1927-10-37,0-VA	3-1927-10-MS-37,0-VA	M10	7.1	37	34	5
3-1927-10-42,0-VA	3-1927-10-MS-42,0-VA	M10	7.1	42	39	5
3-1927-10-52,0-VA	3-1927-10-MS-52,0-VA	M10	7.1	52	49	5
3-1927-10-62,0-VA	3-1927-10-MS-62,0-VA	M10	7.1	62	59	5
3-1927-10-65,0-VA	3-1927-10-MS-65,0-VA	M10	7.1	65	62	5
3-1927-10-82,0-VA	3-1927-10-MS-82,0-VA	M10	7.1	82	79	5

M10



Thrust screws with bolt

Thread size M3 – M12, stainless steel



Art. No. Bolt POM	Art. No. Bolt brass	D1	D2	L1	L2	SW
3-1927-12-14,0-VA	3-1927-12-MS-14,0-VA	M12	7.1	14	11	6
3-1927-12-18,0-VA	3-1927-12-MS-18,0-VA	M12	7.1	18	15	6
3-1927-12-22,0-VA	3-1927-12-MS-22,0-VA	M12	7.1	22	19	6
3-1927-12-27,0-VA	3-1927-12-MS-27,0-VA	M12	7.1	27	24	6
3-1927-12-30,0-VA	3-1927-12-MS-30,W-VA	M12	7.1	30	27	6
3-1927-12-32,0-VA	3-1927-12-MS-32,0-VA	M12	7.1	32	29	6
3-1927-12-34,0-VA	3-1927-12-MS-34,0-VA	M12	7.1	34	31	6
3-1927-12-35,0-VA	3-1927-12-MS-35,0-VA	M12	7.1	35	32	6
3-1927-12-42,0-VA	3-1927-12-MS-42,0-VA	M12	7.1	42	39	6
3-1927-12-52,0-VA	3-1927-12-MS-52,0-VA	M12	7.1	52	49	6
3-1927-12-62,0-VA	3-1927-12-MS-62,0-VA	M12	7.1	62	59	6
3-1927-12-65,0-VA	3-1927-12-MS-65,0-VA	M12	7.1	65	62	6
3-1927-12-82,0-VA	3-1927-12-MS-82,0-VA	M12	7.1	82	79	6
3-1927-12-102,0-VA	3-1927-12-MS-102,0-VA	M12	7.1	102	99	6

M12

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

Material • Technical data

Housing

Bolt

Thread lock

Stainless steel (1.4305)

POM (Thermoplastic) or brass

On request, based on standards

DIN 267-28 / Fasteners with locking coating

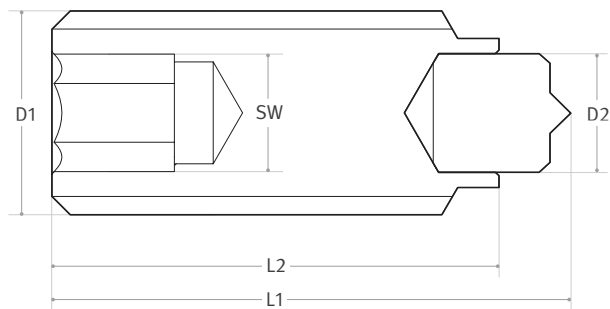
DIN 267-27 / Fasteners with adhesive and microencapsulated coatings

Designation examples: poly-surface, precote, etc.



Thrust screws with point

Thread size M5 – M10, strength class 10.9



Art. No.	D1	D2	L1	L2	SW
3-1927-05-08,5-BS	M5	3	8.5	7.5	2.5
3-1927-05-12,5-BS	M5	3	12.5	11.5	2.5
3-1927-05-16,5-BS	M5	3	16.5	15.5	2.5
3-1927-05-20,0-BS	M5	3	20	19	2.5
3-1927-06-13,0-BS	M6	4	13	11.5	3
3-1927-06-17,0-BS	M6	4	17	15.5	3
3-1927-06-21,0-BS	M6	4	21	19.5	3
3-1927-06-26,0-BS	M6	4	26	24.5	3
3-1927-08-13,5-BS	M8	5.6	13.5	11.5	4
3-1927-08-17,5-BS	M8	5.6	17.5	15.5	4
3-1927-08-21,5-BS	M8	5.6	21.5	19.5	4
3-1927-08-26,5-BS	M8	5.6	26.5	24.5	4
3-1927-08-33,5-BS	M8	5.6	33.5	31.5	4

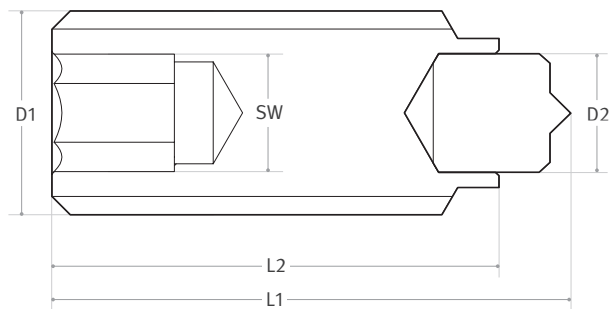
All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.



Thrust screws with point

Thread size M5 – M10, strength class 10.9



Art. No.	D1	D2	L1	L2	SW
3-1927-10-18,0-BS	M10	7.1	18	15	5
3-1927-10-22,0-BS	M10	7.1	22	19	5
3-1927-10-27,0-BS	M10	7.1	27	24	5
3-1927-10-34,0-BS	M10	7.1	34	31	5
3-1927-10-42,0-BS	M10	7.1	42	39	5

M10

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

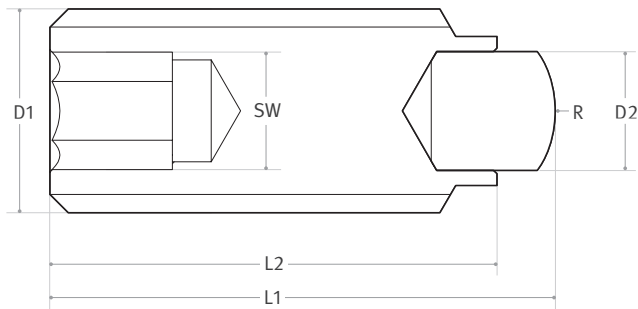
Material • Technical data

Housing	Steel, strength class 10.9
Bolt	Hardened tool steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Thrust screws with rounded half-dog point

Thread size M5 – M10, strength class 10.9



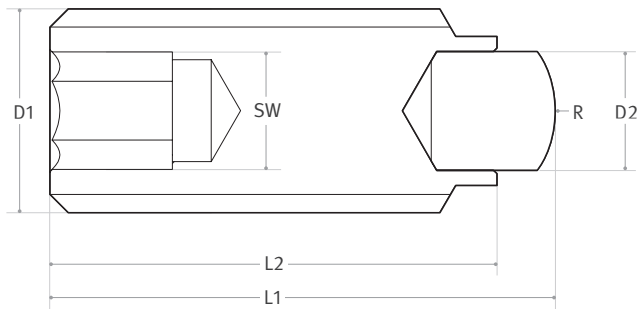
Art. No.	D1	D2	L1	L2	R	SW
3-1927-05-09,0-BW	M5	3	9	7.5	2.5	2.5
3-1927-05-13,0-BW	M5	3	13	11.5	2.5	2.5
3-1927-05-17,0-BW	M5	3	17	15.5	2.5	2.5
3-1927-05-20,5-BW	M5	3	20.5	19.0	2.5	2.5
3-1927-06-14,0-BW	M6	4	14	11.5	3	3
3-1927-06-18,0-BW	M6	4	18	15.5	3	3
3-1927-06-22,0-BW	M6	4	22	19.5	3	3
3-1927-06-27,0-BW	M6	4	27	24.5	3	3
3-1927-08-14,5-BW	M8	5.6	14.5	11.5	5	4
3-1927-08-18,5-BW	M8	5.6	18.5	15.5	5	4
3-1927-08-22,5-BW	M8	5.6	22.5	19.5	5	4
3-1927-08-27,5-BW	M8	5.6	27.5	24.5	5	4
3-1927-08-34,5-BW	M8	5.6	34.5	31.5	5	4

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.



Thrust screws with rounded half-dog point

Thread size M5 – M10, strength class 10.9



Art. No.	D1	D2	L1	L2	R	SW
3-1927-10-18,5-BW	M10	7.1	18.5	15	6	5
3-1927-10-22,5-BW	M10	7.1	22.5	19	6	5
3-1927-10-27,5-BW	M10	7.1	27.5	24	6	5
3-1927-10-34,5-BW	M10	7.1	34.5	31	6	5
3-1927-10-42,5-BW	M10	7.1	42.5	39	6	5

M10

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

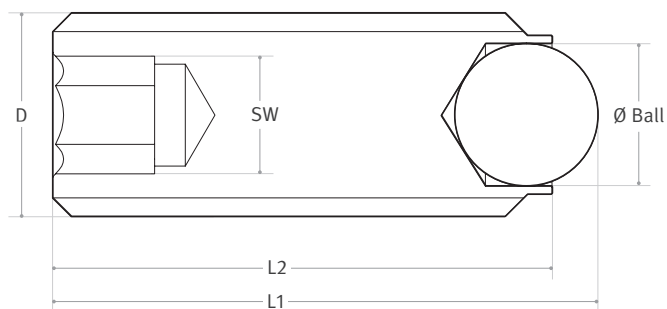
Material • Technical data

Housing	Steel, strength class 10.9
Bolt	Hardened tool steel
Thread lock	On request, based on standards DIN 267-28 / Fasteners with locking coating DIN 267-27 / Fasteners with adhesive and microencapsulated coatings Designation examples: poly-surface, precote, etc.



Ball-end thrust screws without head

Thread size M4 – M24, steel with full ball



Art. No. Ball stainless steel	Art. No. Ball POM	D	L1	L2	Ball Ø	SW
3-231-04-06,0	3-239-04-06,0	M4	6	5.3	2.5	2
3-231-04-08,0	3-239-04-08,0	M4	8	7.3	2.5	2
3-231-04-10,0	3-239-04-10,0	M4	10	9.3	2.5	2
3-231-04-12,0	3-239-04-12,0	M4	12	11.3	2.5	2
3-231-04-16,0	3-239-04-16,0	M4	16	15.3	2.5	2

M4

3-231-05-08,0	3-239-05-08,0	M5	8	7.2	3	2.5
3-231-05-10,0	3-239-05-10,0	M5	10	9.2	3	2.5
3-231-05-12,0	3-239-05-12,0	M5	12	11.2	3	2.5
3-231-05-16,0	3-239-05-16,0	M5	16	15.2	3	2.5
3-231-05-20,0	3-239-05-20,0	M5	20	19.2	3	2.5
3-231-05-25,0	3-239-05-25,0	M5	25	24.2	3	2.5

M5

3-231-06-10,8	3-239-06-10,8	M6	10.8	9.6	4	3
3-231-06-12,8	3-239-06-12,8	M6	12.8	11.6	4	3
3-231-06-16,8	3-239-06-16,8	M6	16.8	15.6	4	3
3-231-06-20,8	3-239-06-20,8	M6	20.8	19.6	4	3
3-231-06-25,8	3-239-06-25,8	M6	25.8	24.6	4	3
3-231-06-40,8	3-239-06-40,8	M6	40.8	39.6	4	3
3-231-06-50,8	3-239-06-50,8	M6	50.8	49.6	4	3
3-231-06-60,8	3-239-06-60,8	M6	60.8	59.6	4	3
3-231-06-80,8	3-239-06-80,8	M6	80.8	79.6	4	3

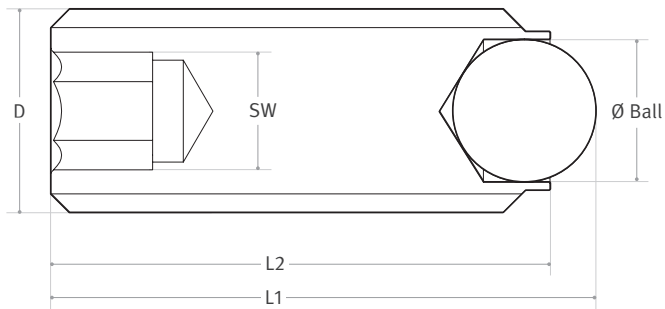
M6

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.



Ball-end thrust screws without head

Thread size M4 – M24, steel with full ball



Art. No. Ball stainless steel	Art. No. Ball POM	D	L1	L2	Ball Ø	SW
3-231-08-11,2	3-239-08-11,2	M8	11.2	9.5	5.5	4
3-231-08-13,2	3-239-08-13,2	M8	13.2	11.5	5.5	4
3-231-08-17,2	3-239-08-17,2	M8	17.2	15.5	5.5	4
3-231-08-21,2	3-239-08-21,2	M8	21.2	19.5	5.5	4
3-231-08-26,2	3-239-08-26,2	M8	26.2	24.5	5.5	4
3-231-08-31,2	3-239-08-31,2	M8	31.2	29.5	5.5	4
3-231-08-41,2	3-239-08-41,2	M8	41.2	39.5	5.5	4
3-231-08-51,2	3-239-08-51,2	M8	51.2	49.5	5.5	4
3-231-08-61,2	3-239-08-61,2	M8	61.2	59.5	5.5	4
3-231-08-81,2	3-239-08-81,2	M8	81.2	79.5	5.5	4

M8

3-231-10-13,7	3-239-10-13,7	M10	13.7	11.4	7	5
3-231-10-17,7	3-239-10-17,7	M10	17.7	15.4	7	5
3-231-10-21,7	3-239-10-21,7	M10	21.7	19.4	7	5
3-231-10-26,7	3-239-10-26,7	M10	26.7	24.4	7	5
3-231-10-36,7	3-239-10-36,7	M10	36.7	34.4	7	5

M10

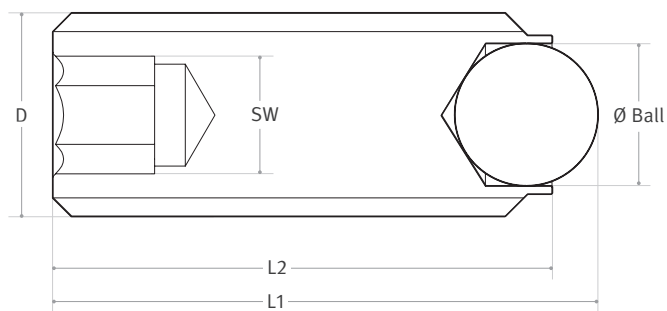
3-231-12-18,0	3-239-12-18,0	M12	18	15.2	8.5	6
3-231-12-22,0	3-239-12-22,0	M12	22	19.2	8.5	6
3-231-12-27,0	3-239-12-27,0	M12	27	24.2	8.5	6
3-231-12-32,0	3-239-12-32,0	M12	32	29.2	8.5	6
3-231-12-34,0	3-239-12-34,0	M12	34	31.2	8.5	6
3-231-12-42,0	3-239-12-42,0	M12	42	39.2	8.5	6

M12



Ball-end thrust screws without head

Thread size M4 – M24, steel with full ball



Art. No. Ball stainless steel	Art. No. Ball POM	D	L1	L2	Ball Ø	SW
3-231-16-23,3	—	M16	23.3	18.3	12	8
3-231-16-28,3	—	M16	28.3	23.8	12	8
3-231-16-38,3	—	M16	38.3	33.8	12	8
3-231-16-53,3	—	M16	53.3	48.8	12	8

M16

3-231-20-34,2	—	M20	34.2	28.4	15	10
3-231-20-44,2	—	M20	44.2	38.4	15	10
3-231-20-64,2	—	M20	64.2	58.4	15	10

M20

3-231-24-39,7	—	M24	39.7	33.4	18	12
3-231-24-54,7	—	M24	54.7	48.4	18	12
3-231-24-84,7	—	M24	84.7	78.4	18	12

M24

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.
We reserve the right to make design changes for technical/manufacturing reasons.

Material · Technical data

Housing

Bolt

Thread lock

Burnished steel, strength class 10.9

Hardened stainless steel or POM (Thermoplastic)

On request, based on standards

DIN 267-28 / Fasteners with locking coating

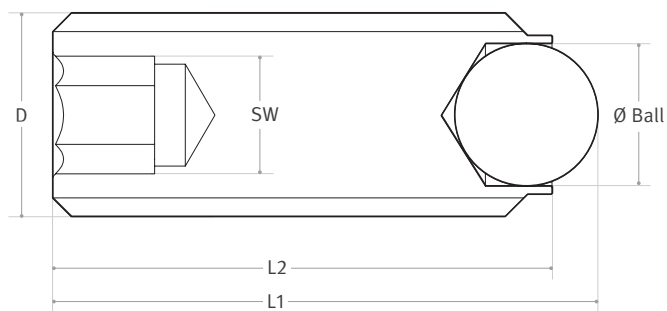
DIN 267-27 / Fasteners with adhesive and microencapsulated coatings

Designation examples: poly-surface, precote, etc.



Ball-end thrust screws without head

Thread size **M4 – M16**, stainless steel with full ball



Art. No. Ball steel	Art. No. Ball POM	D	L1	L2	Ball Ø	SW
3-232-04-06,0	3-234-04-06,0	M4	6	5.3	2.5	2
3-232-04-08,0	3-234-04-08,0	M4	8	7.3	2.5	2
3-232-04-10,0	3-234-04-10,0	M4	10	9.3	2.5	2
3-232-04-12,0	3-234-04-12,0	M4	12	11.3	2.5	2
3-232-04-16,0	3-234-04-16,0	M4	16	15.3	2.5	2

M4

3-232-05-08,0	3-234-05-08,0	M5	8	7.2	3	2.5
3-232-05-10,0	3-234-05-10,0	M5	10	9.2	3	2.5
3-232-05-12,0	3-234-05-12,0	M5	12	11.2	3	2.5
3-232-05-16,0	3-234-05-16,0	M5	16	15.2	3	2.5
3-232-05-20,0	3-234-05-20,0	M5	20	19.2	3	2.5
3-232-05-25,0	3-234-05-25,0	M5	25	24.2	3	2.5

M5

3-232-06-10,8	3-234-06-10,8	M6	10.8	9.6	4	3
3-232-06-12,8	3-234-06-12,8	M6	12.8	11.6	4	3
3-232-06-16,8	3-234-06-16,8	M6	16.8	15.6	4	3
3-232-06-20,8	3-234-06-20,8	M6	20.8	19.6	4	3
3-232-06-25,8	3-234-06-25,8	M6	25.8	24.6	4	3
3-232-06-40,8	3-234-06-40,8	M6	40.8	39.6	4	3
3-232-06-50,8	3-234-06-50,8	M6	50.8	49.6	4	3
3-232-06-60,8	3-234-06-60,8	M6	60.8	59.6	4	3
3-232-06-80,8	3-234-06-80,8	M6	80.8	79.6	4	3

M6

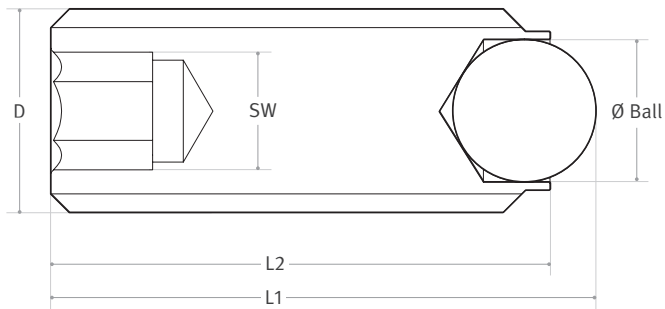
All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.



Ball-end thrust screws without head

Thread size **M4 – M16**, stainless steel with full ball



Art. No. Ball steel	Art. No. Ball POM	D	L1	L2	Ball Ø	SW
3-232-08-11,2	3-234-08-11,2	M8	11.2	9.5	5.5	4
3-232-08-13,2	3-234-08-13,2	M8	13.2	11.5	5.5	4
3-232-08-17,2	3-234-08-17,2	M8	17.2	15.5	5.5	4
3-232-08-21,2	3-234-08-21,2	M8	21.2	19.5	5.5	4
3-232-08-26,2	3-234-08-26,2	M8	26.2	24.5	5.5	4
3-232-08-31,2	3-234-08-31,2	M8	31.2	29.5	5.5	4
3-232-08-41,2	3-234-08-41,2	M8	41.2	39.5	5.5	4
3-232-08-51,2	3-234-08-51,2	M8	51.2	49.5	5.5	4
3-232-08-61,2	3-234-08-61,2	M8	61.2	59.5	5.5	4
3-232-08-81,2	3-234-08-81,2	M8	81.2	79.5	5.5	4

M8

3-232-10-13,7	3-234-10-13,7	M10	13.7	11.4	7	5
3-232-10-17,7	3-234-10-17,7	M10	17.7	15.4	7	5
3-232-10-21,7	3-234-10-21,7	M10	21.7	19.4	7	5
3-232-10-26,7	3-234-10-26,7	M10	26.7	24.4	7	5
3-232-10-36,7	3-234-10-36,7	M10	36.7	34.4	7	5

M10

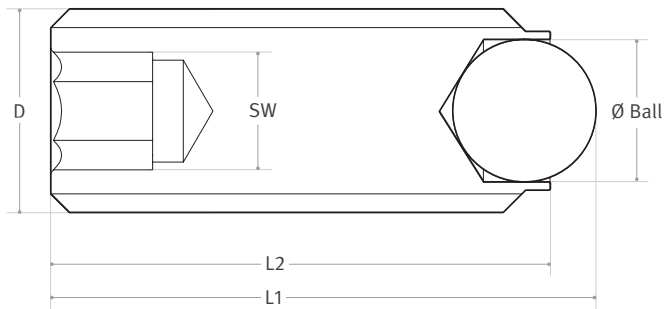
All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.



Ball-end thrust screws without head

Thread size **M4 – M16**, stainless steel with full ball



Art. No. Ball steel	Art. No. Ball POM	D	L1	L2	Ball Ø	SW
3-232-12-18,0	3-234-12-18,0	M12	18,0	15,2	8,5	6
3-232-12-22,0	3-234-12-22,0	M12	22,0	19,2	8,5	6
3-232-12-27,0	3-234-12-27,0	M12	27,0	24,2	8,5	6
3-232-12-32,0	3-234-12-32,0	M12	32,0	29,2	8,5	6
3-232-12-34,0	3-234-12-34,0	M12	34,0	31,2	8,5	6
3-232-12-42,0	3-234-12-42,0	M12	42,0	39,2	8,5	6

M12

3-232-16-23,3	—	M16	23,3	18,3	12	8
3-232-16-28,3	—	M16	28,3	23,8	12	8
3-232-16-38,3	—	M16	38,3	33,8	12	8
3-232-16-53,3	—	M16	53,3	48,8	12	8

M16

All data in mm. Standard version ex stock. Other dimensions and materials are also possible on request.

We reserve the right to make design changes for technical/manufacturing reasons.

Material • Technical data

Housing

Stainless steel (1.4305)

Ball

Hardened stainless steel or POM (Thermoplastic)

Thread lock

On request, based on standards

DIN 267-28 / Fasteners with locking coating

DIN 267-27 / Fasteners with adhesive and microencapsulated coatings

Designation examples: poly-surface, precote, etc.





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