

Index Plungers - Lever Grip

pin protruding at start



32491



Order No.	Type	d ₁	d ₂	d ₃	$\frac{l_1}{\approx}$	l ₂	l ₃ min.	l ₄	Spring load* f ₁ N	Spring load* f ₂ N
32491.W0006	W/o Rest Position - Spring Back	6	M16x1,5	16	51	8	35	32	6,5	20
32491.W0007	W/o Rest Position - Spring Back	8	M16x1,5	16	51	8	35	32	6,5	20
32491.W0009	W/o Rest Position - Spring Back	10	M16x1,5	16	51	8	35	32	6,5	20
32491.W0356	With Rest Position	6	M16x1,5	16	51	8	35	32	6,5	20
32491.W0357	With Rest Position	8	M16x1,5	16	51	8	35	32	6,5	20
32491.W0359	With Rest Position	10	M16x1,5	16	51	8	35	32	6,5	20
32491.W0456	With Safety Rest Position	6	M16x1,5	16	51	8	35	32	6,5	20
32491.W0457	With Safety Rest Position	8	M16x1,5	16	51	8	35	32	6,5	20
32491.W0459	With Safety Rest Position	10	M16x1,5	16	51	8	35	32	6,5	20
32700.W0118	Locknut	-	M16x1,5	-	-	-	-	-	-	-

Material

Body: steel zinc plated, blue passivated.

Pin: stainless steel 1.4305 (AISI 303).

Grip/Lever: thermoplastic, black.

Technical Notes

At start position locking pin is protruding, when lever is actuated locking pin retracts.

The lever can be turned anti-clockwise by 90° or 120°, over a cam guide, to retract the pin.

Three different types available;

1) without rest position- sprung loaded pin which springs back to start position whenever released.

2) with rest position- pin held in retracted position via indexed notch on cam.

3) with safety rest position- pin held in retracted position via deep notch, to avoid accidental actuation, lever must first be pulled out of notch prior to release.

Tips

Spring Loads* = statistical average.

Index Plungers - Lever Grip

pin retracted at start



32492

Order No.	Type	d ₁	d ₂	d ₃	l ₁ ≈	l ₂	l ₃ min.	l ₄	Spring load* f ₁ N	Spring load* f ₂ N
32492.W0326	W/o Rest Position - Spring Back	6	M16x1,5	16	60	8	35	32	7	16,5
32492.W0327	W/o Rest Position - Spring Back	8	M16x1,5	16	60	8	35	32	7	16,5
32492.W0366	With Rest Position	6	M16x1,5	16	60	8	35	32	7	16,5
32492.W0367	With Rest Position	8	M16x1,5	16	60	8	35	32	7	16,5
32492.W0466	With Safety Rest Position	6	M16x1,5	16	60	6	35	32	7	16,5
32492.W0467	With Safety Rest Position	8	M16x1,5	16	60	6	35	32	7	16,5
32700.W0118	Locknut	-	M16x1,5	-	-	-	-	-	-	-



Material

Body: steel, zinc plated, blue passivated.

Pin: stainless steel, 1.4305 (AISI 303).

Grip/Lever: thermoplastic, black.

Technical Notes

At start position locking pin is retracted, when lever is actuated locking pin protrudes.

The lever can be turned anti-clockwise by 90° or 120°, over a cam guide, to extend the pin.

Three different types available;

1) without rest position- sprung loaded pin which springs back to start position whenever released.

2) with rest position- pin held in protruding position via indexed notch on cam,

3) with safety rest position- pin held in protruding position via deep notch, to avoid accidental actuation, lever must first be pulled out of notch prior to release.

Tips

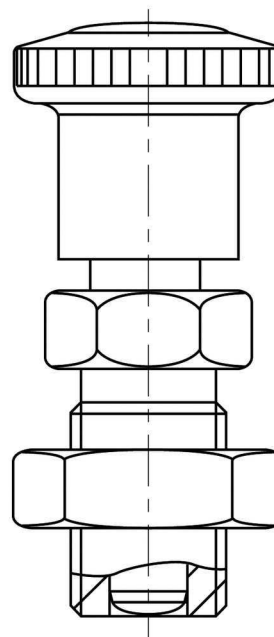
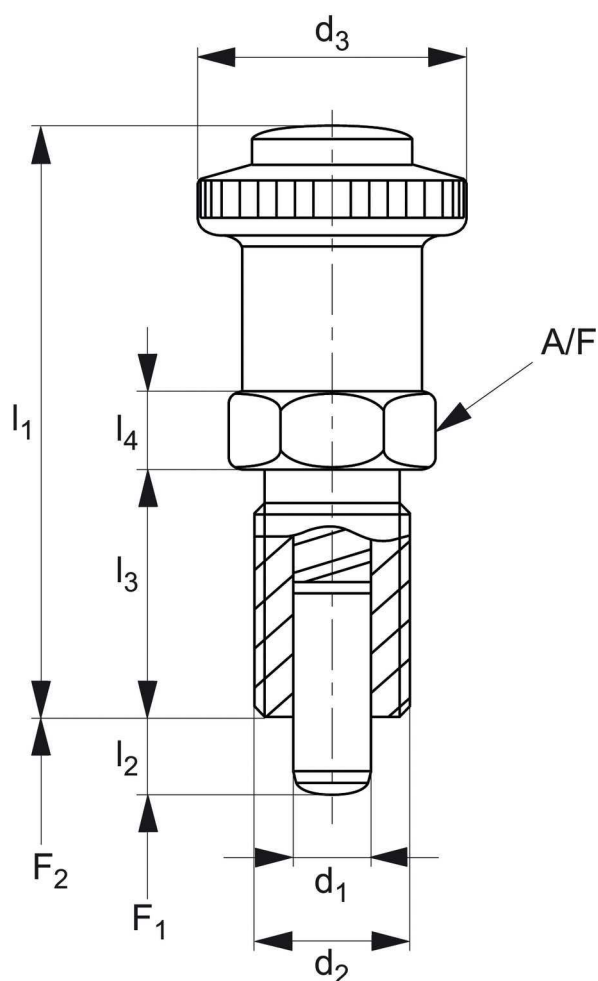
Spring Loads* = statistical average.

Index Plungers - Pull Grip

release lock



32494



Material

Body: steel, blackened or stainless steel 1.4305.

Knob: thermoplastic, black-grey, matt.

Button: thermoplastic POM, red.

Locking pin: steel, hardened or stainless steel, nickel-plated.

Technical Notes

Press red button and hold whilst pulling knob to release pin.
Temperature range -30 to +80°C.

Tips

Knob is non removable.
Lock nuts available separately.

Used with:
32510 Mounting blocks.
32700 Lock nut.
32750 Distance collars.
32752 Locating bushes.
32753 Locating bushes.



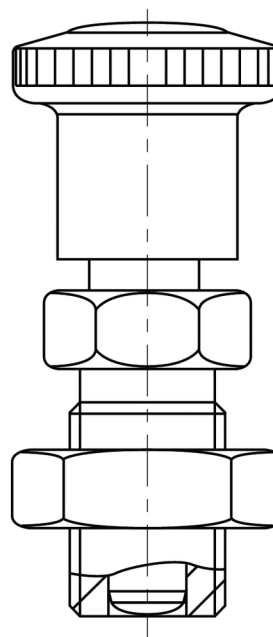
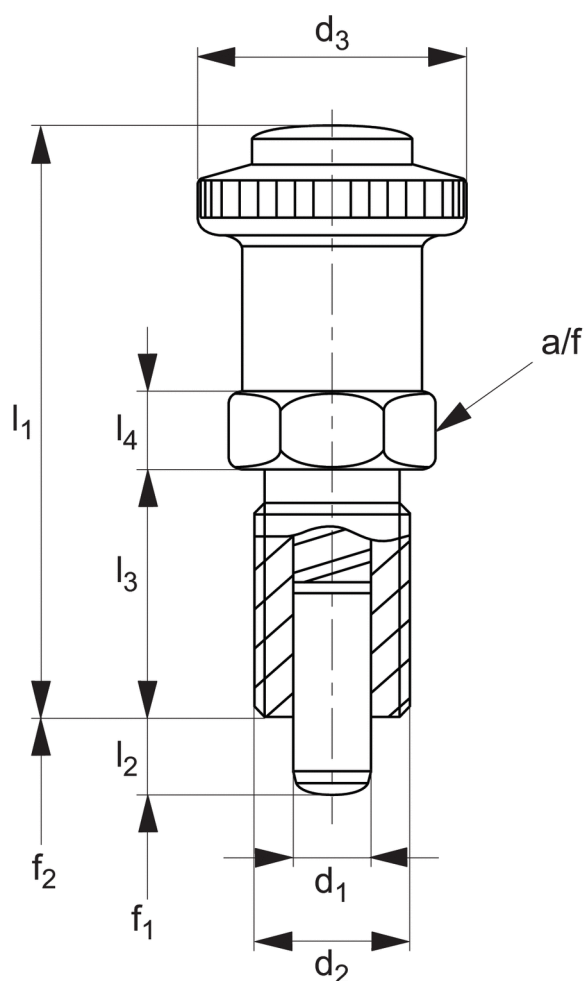
Order No.	Type	d ₁ -0,02 -0,04	d ₂	l ₂ min.	d ₃	l ₁ ≈	l ₃	l ₄	A/F	Spring load F ₁ N ≈	Spring load F ₂ N ≈	g
32494.W0005	Steel	6	M12x1,5	6	28	56	22	6	19	6,5	19	44
32494.W0010	Steel	6	M12x1,5	9	28	56	22	6	19	6,0	25	45
32494.W0015	Steel	8	M16x1,5	8	28	62	26	8	19	8,5	26	70
32494.W0020	Steel	8	M16x1,5	12	28	62	26	8	19	8,5	28	72
32494.W0025	Steel	10	M16x1,5	12	28	62	26	8	19	9,5	38	74
32494.W0105	Stainless	6	M12x1,5	6	28	56	22	6	19	6,5	19	44
32494.W0110	Stainless	6	M12x1,5	9	28	56	22	6	19	6,0	25	45
32494.W0115	Stainless	8	M16x1,5	8	28	62	26	8	19	8,5	26	70
32494.W0120	Stainless	8	M16x1,5	12	28	62	26	8	19	8,5	28	72
32494.W0125	Stainless	10	M16x1,5	12	28	62	26	8	19	9,5	38	74

Index Plungers -Pull Grip

Rapid locking head



32495



Material

Body:
Steel: Steel, blackened.
Stainless: Stainless steel 1.4305.
Knob: thermoplastic, black-grey, matt.
Button: thermoplastic POM, red.
Locking pin: Steel: hardened.
Stainless: stainless steel 1.4305, nickel-plated.

Technical Notes

Pull knob up, red button flush = pin locked.
Press red button, red button out = pin unlocked.
Temperature range -30 to +80 °C.

Tips

Knob is non removable.
Lock nuts available separately.

Used with:
32510 Mounting blocks.
32700 Lock nut.
32750 Distance collars.
32752 Locating bushes.
32753 Locating bushes.



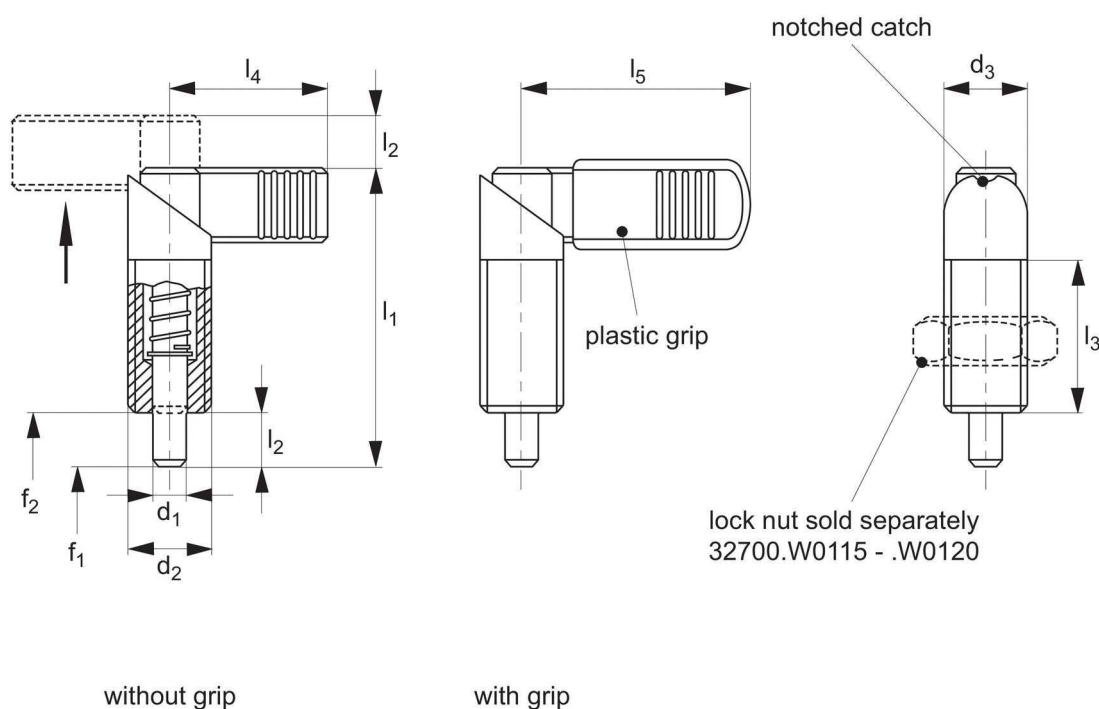
Order No.	Type	d ₁ -0.02 -0.04	d ₂	l ₂ min	d ₃	l ₁ ≈	l ₃	l ₄	a/f	Spring load F ₁ N ≈	Spring load F ₂ N ≈	g
32495.W0205	Steel	6	M12x1,5	6	30	53,5	22	6	19	6,5	19	47
32495.W0210	Steel	6	M12x1,5	9	30	53,5	22	6	19	6,0	25	48
32495.W0215	Steel	8	M16x1,5	8	30	59,5	26	8	19	8,5	26	74
32495.W0220	Steel	8	M16x1,5	12	30	59,5	26	8	19	8,5	28	77
32495.W0225	Steel	10	M16x1,5	12	30	59,5	26	8	19	9,5	38	78
32495.W0305	Stainless	6	M12x1,5	6	30	53,5	22	6	19	6,5	19	47
32495.W0310	Stainless	6	M12x1,5	9	30	53,5	22	6	19	6,0	25	48
32495.W0315	Stainless	8	M16x1,5	8	30	59,5	26	8	19	8,5	26	74
32495.W0320	Stainless	8	M16x1,5	12	30	59,5	26	8	19	8,5	28	77
32495.W0325	Stainless	10	M16x1,5	12	30	59,5	26	8	19	9,5	38	78

Index Plungers - Lever Grip

locking - steel



32500



Order No.	Type	d ₁ -0,02 -0,04	d ₂	d ₃	l ₁ ≈	l ₂ min.	l ₃ +1,5	l ₄	l ₅	Spring Load* f ₁ ≈	Spring Load* f ₂ ≈	g
32500.W0000	Without Grip	4	M10x1,0	10	37,5	6	19	21	-	8,5	25,0	17,0
32500.W0001	Without Grip	5	M10x1,0	10	37,5	6	19	21	-	8,5	25,0	18,0
32500.W0002	Without Grip	6	M10x1,0	10	37,5	6	19	21	-	8,5	25,0	18,0
32500.W0003	Without Grip	5	M12x1,5	12	47,0	8	26	26	-	8,5	19,5	29,0
32500.W0004	Without Grip	6	M12x1,5	12	47,0	8	26	26	-	8,5	19,5	29,0
32500.W0006	Without Grip	6	M16x1,5	16	56,0	10	30	32	-	11,5	30,5	59,0
32500.W0005	Without Grip	8	M12x1,5	12	47,0	8	26	26	-	8,5	19,5	30,0
32500.W0007	Without Grip	8	M16x1,5	16	56,0	10	30	32	-	11,5	30,5	61,0
32500.W0008	Without Grip	8	M20x1,5	20	69,0	12	36	37	-	21,0	57,5	121,0
32500.W0009	Without Grip	10	M16x1,5	16	56,0	10	30	32	-	11,5	30,5	64,0
32500.W0010	Without Grip	10	M20x1,5	20	69,0	12	36	37	-	21,0	57,5	123,0
32500.W0012	Without Grip	12	M20x1,5	20	69,0	12	36	37	-	21,0	57,5	127,0
32500.W0353	With Grip	5	M12x1,5	12	47,0	8	26	-	32	8,5	19,5	30,0
32500.W0354	With Grip	6	M12x1,5	12	47,0	8	26	-	32	8,5	19,5	30,0
32500.W0356	With Grip	6	M16x1,5	16	56,0	10	30	-	42	11,5	30,5	61,0
32500.W0355	With Grip	8	M12x1,5	12	47,0	8	26	-	32	8,5	19,5	32,0
32500.W0357	With Grip	8	M16x1,5	16	56,0	10	30	-	42	11,5	30,5	63,0
32500.W0358	With Grip	8	M20x1,5	20	69,0	12	36	-	52	21,0	57,5	124,0
32500.W0359	With Grip	10	M16x1,5	16	56,0	10	30	-	42	11,5	30,5	66,0
32500.W0360	With Grip	10	M20x1,5	20	69,0	12	36	-	52	21,0	57,5	128,0
32500.W0362	With Grip	12	M20x1,5	20	69,0	12	36	-	52	21,0	57,5	131,0
32700.W0115	Locknut	-	M10x1,0	-	-	-	-	-	-	-	-	5,2
32700.W0116	Locknut	-	M12x1,5	-	-	-	-	-	-	-	-	7,4
32700.W0118	Locknut	-	M16x1,5	-	-	-	-	-	-	-	-	18,0
32700.W0120	Locknut	-	M20x1,5	-	-	-	-	-	-	-	-	32,0

Material

Body: free-cutting steel, blackened.
Pin: hardened steel.
Plastic grip: thermoplastic, black, dull.

Technical Notes

Turn lever 180° to retract pin. To enable pin to be held in retracted position, secure lever in notched catch on plunger body.

Plastic grip type, improves handling. Temperature resistance of type with plastic grip is -30°C to +80°C

Tips

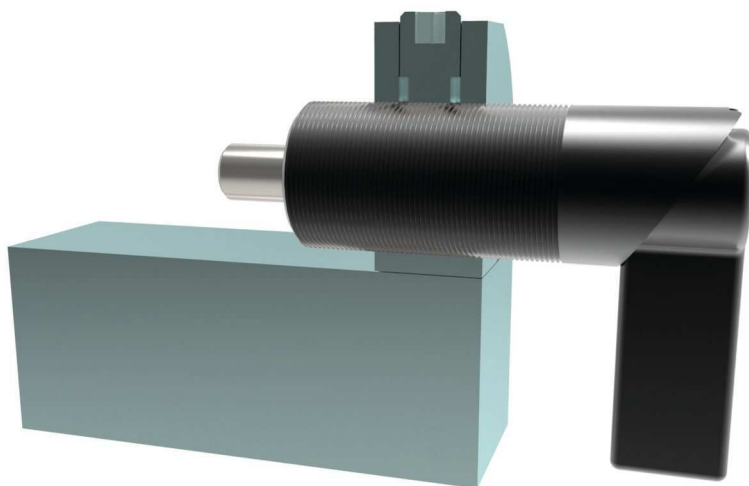
Spring loads * = statistical average.

Index Plungers - Lever Grip

locking - steel



32500



Material

Body: free-cutting steel, blackened.
Pin: hardened steel.
Plastic grip: thermoplastic, black, dull.

Technical Notes

Turn lever 180° to retract pin. To enable pin to be held in retracted position, secure lever in notched catch on plunger body.

Plastic grip type, improves handling. Temperature resistance of type with plastic grip is -30°C to +80°C

Tips

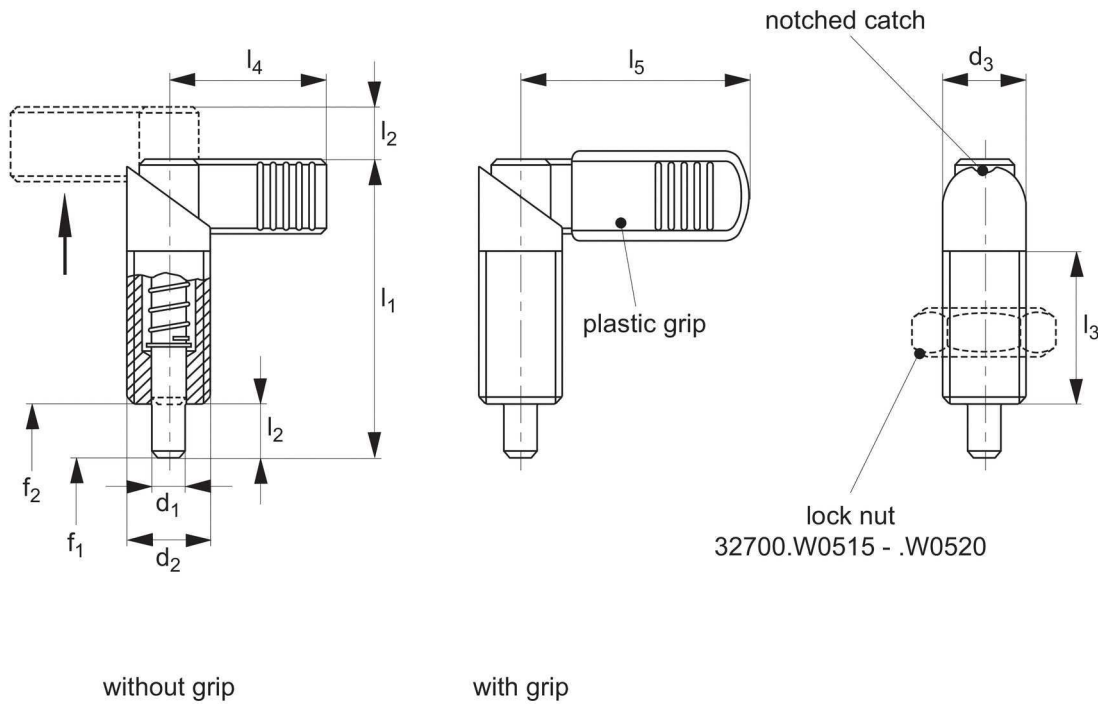
Spring loads * = statistical average.

Index Plungers - Lever Grip

locking - stainless



32501



Order No.	Type	d ₁ -0,02 -0,04	d ₂	d ₃	l ₁ ≈	l ₂ min.	l ₃ +1,5	l ₄	l ₅	Spring load* f ₁ ≈	Spring load* f ₂ ≈	g
32501.W0308	Without Grip	4	M10x1,0	10	37,5	6	19	21	-	8,5	25,0	17
32501.W0310	Without Grip	5	M10x1,0	10	37,5	6	19	21	-	8,5	25,0	18
32501.W0312	Without Grip	6	M10x1,0	10	37,5	6	19	21	-	8,5	25,0	18
32501.W0323	Without Grip	5	M12x1,5	12	47	8	26	26	-	8,5	19,5	29,0
32501.W0324	Without Grip	6	M12x1,5	12	47	8	26	26	-	8,5	19,5	29,0
32501.W0326	Without Grip	6	M16x1,5	16	56	10	30	32	-	11,5	30,5	59,0
32501.W0325	Without Grip	8	M12x1,5	12	47	8	26	26	-	8,5	19,5	30,0
32501.W0327	Without Grip	8	M16x1,5	16	56	10	30	32	-	11,5	30,5	61,0
32501.W0328	Without Grip	8	M20x1,5	20	69	12	36	37	-	21,0	57,5	121,0
32501.W0329	Without Grip	10	M16x1,5	16	56	10	30	32	-	11,5	30,5	64,0
32501.W0330	Without Grip	10	M20x1,5	20	69	12	36	37	-	21,0	57,5	123,0
32501.W0332	Without Grip	12	M20x1,5	20	69	12	36	37	-	21,0	57,5	127,0
32501.W0363	With Grip	5	M12x1,5	12	47	8	26	-	32	8,5	19,5	30,0
32501.W0364	With Grip	6	M12x1,5	12	47	8	26	-	32	8,5	19,5	30,0
32501.W0366	With Grip	6	M16x1,5	16	56	10	30	-	42	11,5	30,5	61,0
32501.W0365	With Grip	8	M12x1,5	12	47	8	26	-	32	8,5	19,5	32,0
32501.W0367	With Grip	8	M16x1,5	16	56	10	30	-	42	11,5	30,5	63,0
32501.W0368	With Grip	8	M20x1,5	20	69	12	36	-	52	21,0	57,5	124,0
32501.W0369	With Grip	10	M16x1,5	16	56	10	30	-	42	11,5	30,5	66,0
32501.W0370	With Grip	10	M20x1,5	20	69	12	36	-	52	21,0	57,5	128,0
32501.W0372	With Grip	12	M20x1,5	20	69	12	36	-	52	21,0	57,5	131,0
32700.W0515	Locknut	-	M10x1,0	-	-	-	-	-	-	-	-	5,2
32700.W0516	Locknut	-	M12x1,5	-	-	-	-	-	-	-	-	7,4
32700.W0518	Locknut	-	M16x1,5	-	-	-	-	-	-	-	-	18,0
32700.W0520	Locknut	-	M20x1,5	-	-	-	-	-	-	-	-	32,0

Material

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303).

Plastic Grip: thermoplastic, black, dull.

Technical Notes

Turn lever 180° to retract pin. To enable pin to be held in retracted position, secure lever in notched catch on plunger body.

Plastic grip type, improves handling. Temperature resistance of type with plastic grip is -30°C to +80°C

Tips

Spring loads * = statistical average.

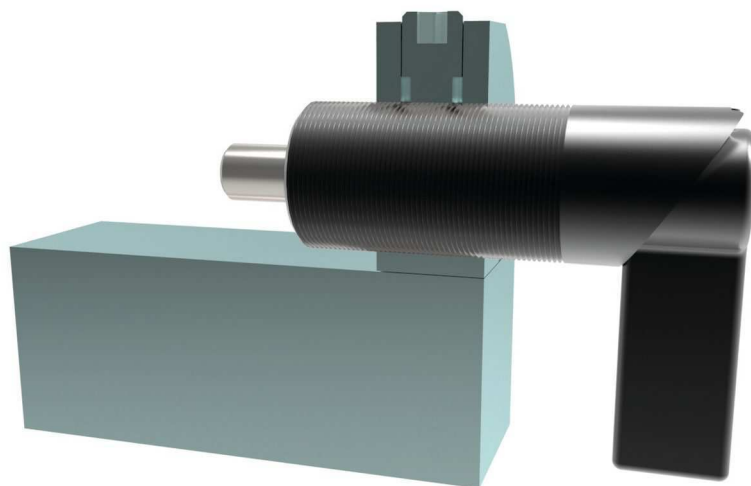


Index Plungers - Lever Grip

locking - stainless



32501



Material

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303).

Plastic Grip: thermoplastic, black, dull.

Technical Notes

Turn lever 180° to retract pin. To enable pin to be held in retracted position, secure lever in notched catch on plunger body.

Plastic grip type, improves handling. Temperature resistance of type with plastic grip is -30°C to +80°C

Tips

Spring loads * = statistical average.

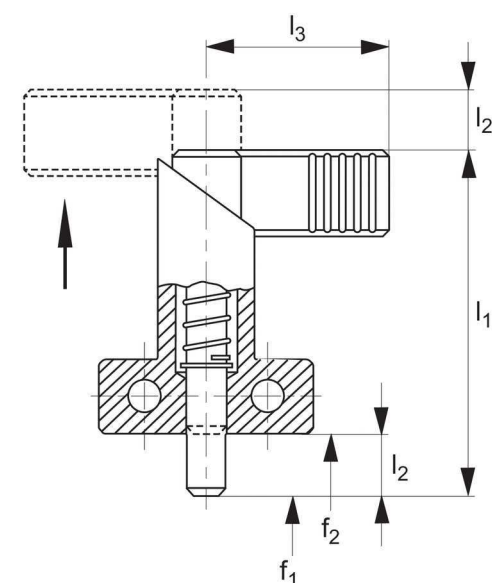


Index Plungers - Lever Grip

flange mounting - locking

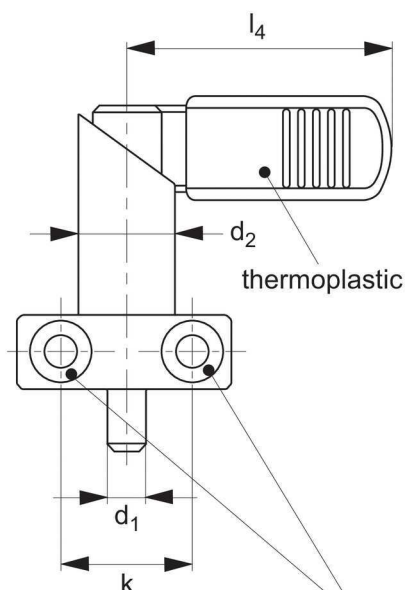


32520



notched catch

without grip



thermoplastic

counterbored on both sides for
DIN 912 cap screw M5

with grip



Material

Body & Lever: free cutting steel, blackened.
Pin: steel, nitrided, black.
Plastic Grip: thermoplastic, black, dull.

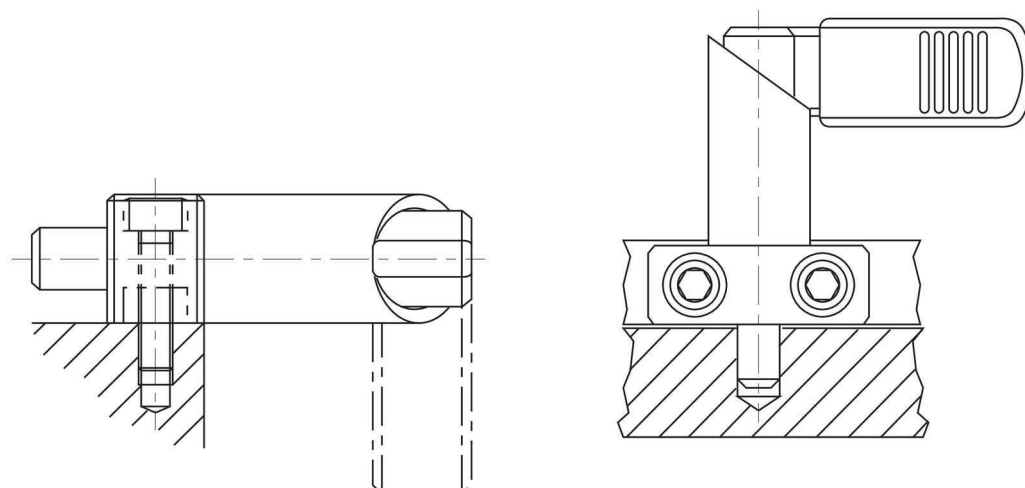
Technical Notes

Turn lever 180° to retract pin. To enable pin to be held in retracted position, secure lever in notched catch on plunger body.
Countersunk holes on both sides of mounting flange enable both right or left mounting.
Plastic grip type, improves handling. Temperature resistance of type with plastic grip is -30°C to +80°C.

Tips

Spring loads * = statistical average.

Order No.	Type	d_1	l_2	d_2	d_3	h	k	l_1	l_3	l_4	s	Sprin g load*	Sprin g load*	g
		d_1 0 -0,05										f_1 N	f_2 N	
32520.W0376	Without Grip	6	10	16	35	16	20	56	32	-	12	12	32	82
32520.W0378	Without Grip	8	10	16	35	16	20	56	32	-	12	12	32	85
32520.W0379	Without Grip	8	12	20	40	20	22	69	37	-	15	21	58	163
32520.W0381	Without Grip	10	10	16	35	16	20	56	32	-	12	12	32	85
32520.W0382	Without Grip	10	12	20	40	20	22	69	37	-	15	21	58	167
32520.W0384	Without Grip	12	12	20	40	20	22	69	37	-	15	21	58	168
32520.W0386	With Grip	6	10	16	35	16	20	56	-	42	12	12	32	83
32520.W0388	With Grip	8	10	16	35	16	20	56	-	42	12	12	32	85
32520.W0389	With Grip	8	12	20	40	20	22	69	-	52	15	21	58	169
32520.W0391	With Grip	10	10	16	35	16	20	56	-	42	12	12	32	86
32520.W0392	With Grip	10	12	20	40	20	22	69	-	52	15	21	58	171
32520.W0394	With Grip	12	12	20	40	20	22	69	-	52	15	21	58	171

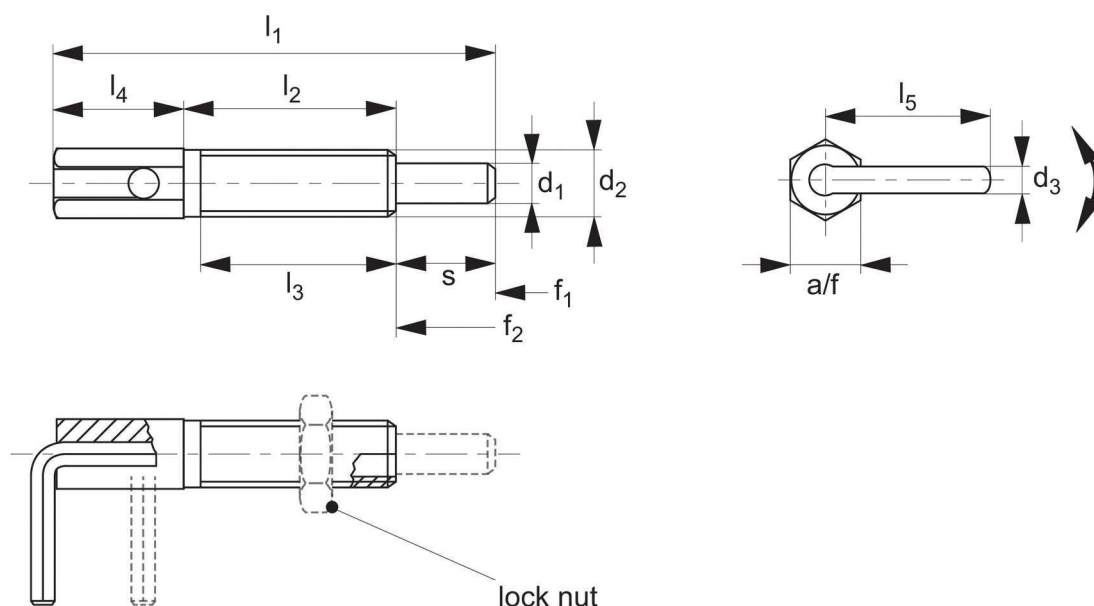


Index Plungers - Lever Grip

locking - coarse thread



32555



Material

Body: free cutting steel, zinc plated.
Pin: steel, galvanised.
Lever: steel, galvanised.

Technical Notes

Pull back and turn lever 180° to retract pin. To enable pin to be held in retracted position, secure lever in notched catch on plunger body. For applications where high precision is not required.

Coarse thread.

Temperature resistance up to 250°C

Tips

Spring loads* = statistical average.

Order No.	Type	d ₁	d ₂	d ₃	l ₁	l ₂	l ₃	l ₄	l ₅	s	a/f	Spring load f ₁ N*	g
32555.W0105	Locking	4	M 6x1,00	2,3	41,5	20,0	17,0	12,0	15,5	9,5	6	3,0	6
32555.W0110	Locking	5	M 8x1,25	3,0	54,0	27,0	24,0	15,0	19,2	12,0	8	3,5	14
32555.W0115	Locking	6	M10x1,50	3,5	65,0	33,5	30,0	17,5	22,9	14,0	10	4,0	26
32555.W0120	Locking	8	M12x1,75	4,7	73,0	31,8	28,0	22,2	31,2	19,0	12	4,0	55
32555.W0125	Locking	10	M16x2,00	4,7	102,5	50,5	44,5	27,0	32,7	25,0	16	4,0	103
32550.W0704	Lock Nut	-	M 6x1,00	-	-	-	-	-	-	-	-	-	1,3
32550.W0705	Lock Nut	-	M 8x1,00	-	-	-	-	-	-	-	-	-	2,8
32550.W0706	Lock Nut	-	M10x1,50	-	-	-	-	-	-	-	-	-	5,3
32550.W0708	Lock Nut	-	M12x1,75	-	-	-	-	-	-	-	-	-	7,6
32550.W0710	Lock Nut	-	M16x2,00	-	-	-	-	-	-	-	-	-	18,0

Mounting Blocks

for index plungers - fine thread



32510

Order No. Steel	Order No. Stainless	Type	d ₁	d ₂	d ₃	d ₄	k ± 0,1	l ₁	l ₂ ≈	l ₃	s	g
32510.W0345	32510.W0545	Parallel	M12x1,5	32	M 5	4,5	21	22	26,5	9	12	43
32510.W0346	32510.W0546	Parallel	M16x1,5	46	M 8	5,5	32	33	38,0	13	15	122
32510.W0350	32510.W0550	Parallel	M20x1,5	46	M 8	5,5	32	33	37,0	13	15	109
32510.W0347	32510.W0547	Vertical	M12x1,5	32	M 5	4,5	21	22	26,5	9	12	37
32510.W0348	32510.W0548	Vertical	M16x1,5	46	M 8	5,5	32	33	38,0	13	15	106
32510.W0352	32510.W0552	Vertical	M20x1,5	46	M 8	5,5	32	33	38,0	13	15	94



Material

Steel type-

Body: Steel, blackened.

Grub Screw: M8 with brass tip.

Stainless steel type-

Body: Stainless steel 1.4305 (AISI 303).

Technical Notes

Mounting blocks provide assembly support for mounting of index plungers. **(Not suitable for index plungers with coarse thread).**



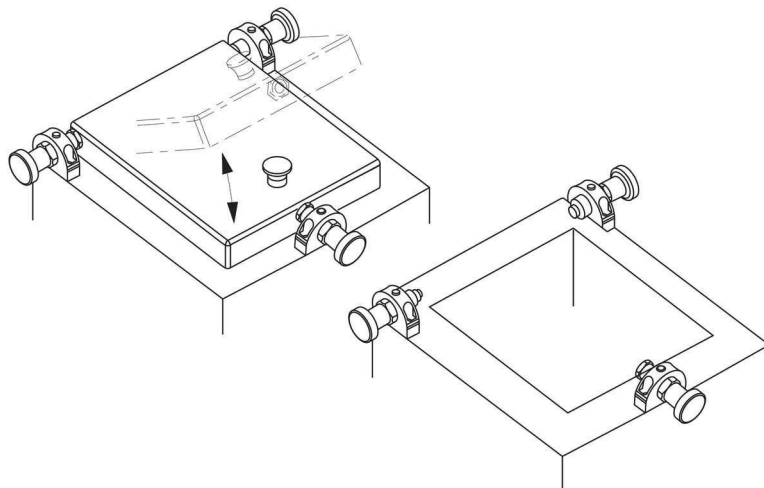
Mounting Blocks

for index plungers - fine thread



32512

Order No.	Type	d ₁	d ₂	d ₃	k	l ₁	l ₂	l ₃ - 0,2	l ₄	 g
32512.W0408	Vertical	M 8x1,0	4,3	M 4	25	35	26	11,5	14	39
32512.W0410	Vertical	M10x1,0	4,3	M 4	25	35	26	11,5	14	36
32512.W0412	Vertical	M12x1,5	4,3	M 4	25	35	26	11,5	14	41
32512.W0416	Vertical	M16x1,5	5,3	M 5	35	47	34	15,5	18	77
32512.W0420	Vertical	M20x1,5	5,3	M 5	35	47	34	15,5	18	68



Material

Body: die-cast zinc, black plastic coated.

Grub screw: M8 with brass tip.

Technical Notes

Mounting blocks provide assembly support for mounting of index plungers. **(Not suitable for index plungers with coarse thread).**

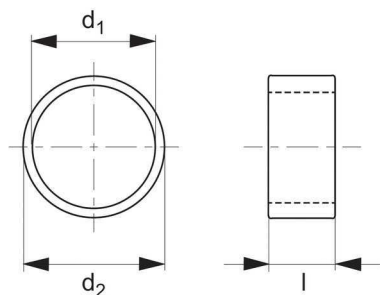
Index plunger must be assembled in hole d₁ on countersunk side.

Distance Collars

for index plungers



32750



Material

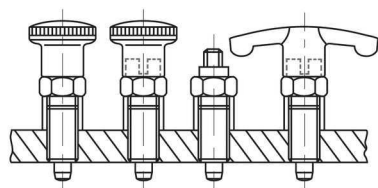
Stainless steel 1.4305 (AISI 303).

Technical Notes

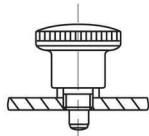
Distance collars adapt the thread length of index plungers to enable different thread reaches. Order while stocks last.



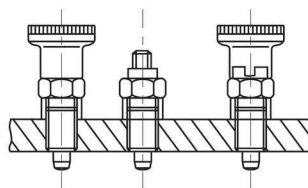
plunger types



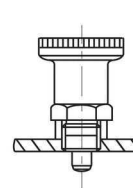
type 1 - 32502, 32504 32680, 32681, 32690, 32781, 32782



type 2 - 32600, 32602, 32604



type 3 - 32700, 32702, 32710, 32712



type 4 - 32730

Order No.	d_1 tol. H12	l_1 $\pm 0,1$	d_2 $-0,1$	For index plungers size d_1	Suitable for plunger type	g
32750.W0993	8	2	10	M 8	1/2	0,5
32750.W0933	8	3	10	M 8	1	0,8
32750.W0934	8	4	10	M 8	1	0,9
32750.W0936	8	6	10	M 8	1	1,2
32750.W0938	8	8	10	M 8	1	1,6
32750.W0940	8	10	10	M 8	1	2,0
32750.W0942	10	2	12	M10	1/2/3	0,6
32750.W0944	10	4	12	M10	1/2/3	1,1
32750.W0946	10	6	12	M10	1/3	1,6
32750.W0948	10	8	12	M10	1/3	2,1
32750.W0950	10	10	12	M10	1/3	2,7
32750.W0952	10	12	12	M10	1/3	3,0
32750.W0962	12	2	14	M12	1	0,6
32750.W0964	12	4	14	M12	1	2,5
32750.W0966	12	6	14	M12	1	1,9
32750.W0968	12	8	14	M12	1	2,4
32750.W0972	12	2	17	M12	3/4	2,0
32750.W0974	12	4	17	M12	3/4	3,4
32750.W0975	12	5	17	M12	3/4	4,4
32750.W0976	16	4	17	M16	1	0,7
32750.W0977	16	6	17	M16	1	1,2
32750.W0978	16	8	17	M16	1	1,4
32750.W0979	16	10	17	M16	1	2,0
32750.W0980	16	12	17	M16	1	2,1
32750.W0982	16	2	19	M16	3/4	1,3
32750.W0984	16	4	19	M16	3/4	2,8
32750.W0986	16	6	19	M16	3/4	3,8
32750.W0988	16	8	19	M16	3/4	4,8
32750.W0990	16	10	19	M16	3	6,1
32750.W0992	16	12	19	M16	3	9,2
32750.W0993	20	6	22	M20	1/3	3,0
32750.W0994	20	8	22	M20	1/3	4,0
32750.W0995	20	10	22	M20	1/3	4,9
32750.W0996	20	12	22	M20	1/3	5,9
32750.W0997	20	14	22	M20	1/3	6,9
32750.W0998	20	16	22	M20	1/3	9,3
32750.W0999	20	18	22	M20	1/3	9,0

Distance Collars

for index plungers



32750



Material

Stainless steel 1.4305 (AISI 303).

Technical Notes

Distance collars adapt the thread length of index plungers to enable different thread reaches. Order while stocks last.

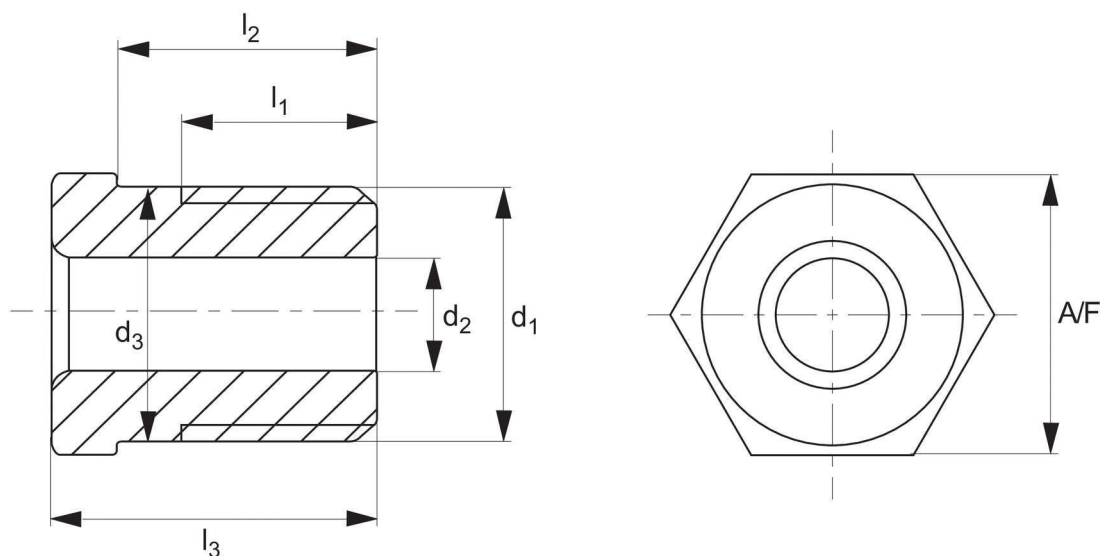


Locating Bushes

for index plungers



32752



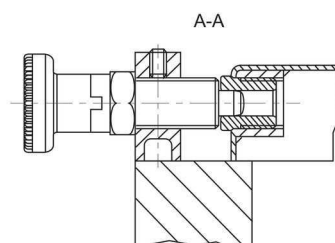
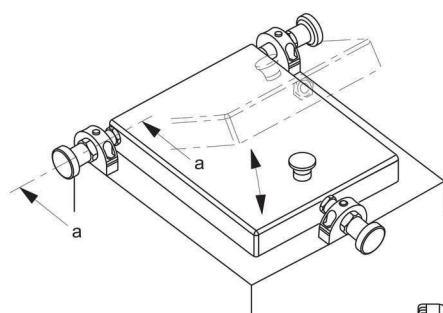
Material

Steel, nitrided.

Technical Notes

For use with our wide range of index plungers. Provide a durable location bush for index plunger pins of diameter d_2 . See "for pin dia." column in data table and refer to individual index plunger production information for matching pin diameters.

Order No.	d_1	For pin dia.	d_2 +0,1	d_3 ±0,3	l_1 min.	l_2 -0,3	l_3	a/f	 g
32752.W0454	M12x1,5	4	4,2	12,1	9	10	13	13	10
32752.W0455	M12x1,5	5	5,2	12,1	9	10	13	13	10
32752.W0456	M12x1,5	6	6,2	12,1	9	10	13	13	9
32752.W0458	M16x1,5	8	8,2	16,1	11	12	15	17	18
32752.W0460	M16x1,5	10	10,2	16,1	11	12	15	17	14
32752.W0462	M16x1,5	12	12,2	16,1	11	12	15	17	9



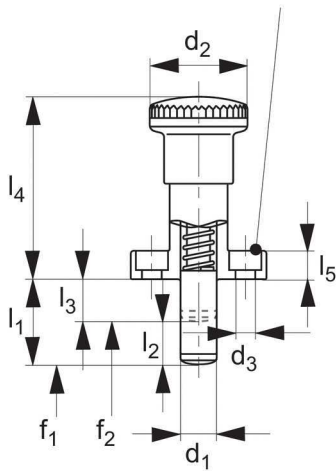
Index Plungers - Pull Grip

flange mounting - extended pin

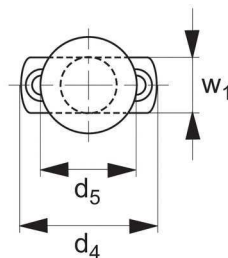
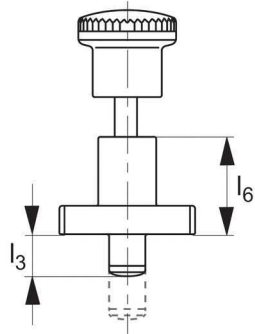


32530

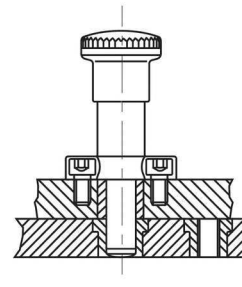
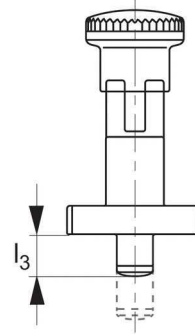
for cap screw
DIN 912 / ISO 4762-M5



non locking



locking



mounting example



Material

Body: steel, blackened.
Pin: steel, hardened and ground.
Grip: thermoplastic PA6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip is released.
Due to extended length pin does not fully retreat into plunger body when grip activated - note dimension l_3 for length pin remains exposed.

Extended pin assists locating and indexing of components. Due to its extended length the pin does not fully retract flush to the plunger body - please note dimensions l_1 for extended pin length and l_3 for retracted pin length. Pin is tolerated to h7 for improved location accuracy. Accuracy dependant upon suitable tolerance of bush, we suggest H7, with min. pin engagement to dim. l_3 .

Tips

Grip non-removable.
Spring Loads* = statistical average.

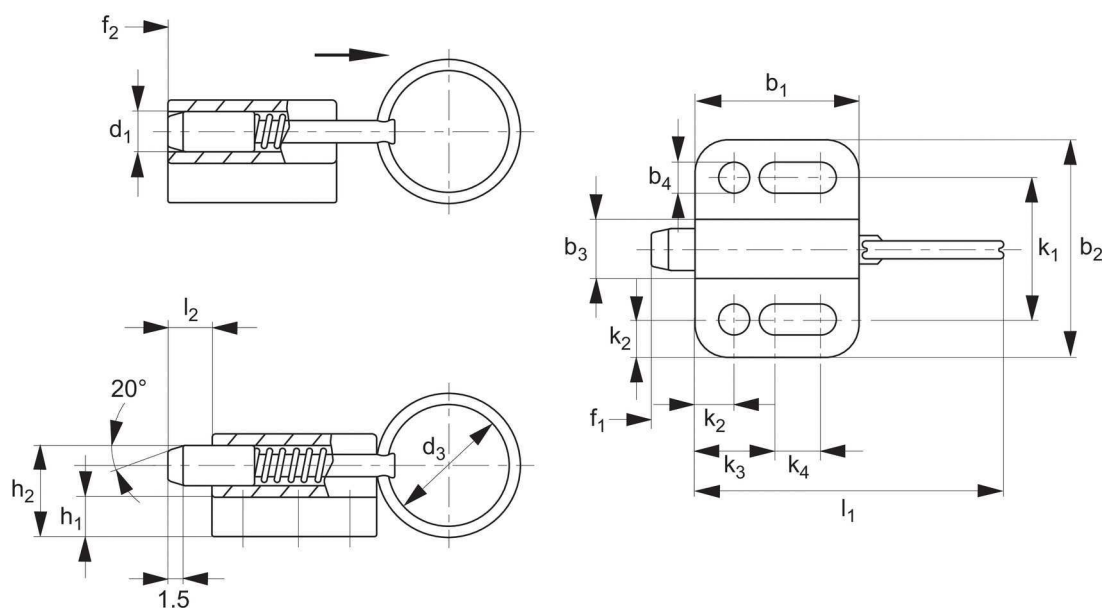
Order No.	Type	Strok		l_3	l_4	l_5	l_6	w_1	d_1 tol. h7	d_2	d_3	d_4	d_5	Sprin		
		l_1	e l_2											g load * f_1 N ≈	g load * f_2 N ≈	g
32530.W0081	Non Locking	20	10	10	51	8	27	16	8	28	5,5	38	26	8,5	28	74
32530.W0083	Non Locking	26	10	16	51	8	27	16	8	28	5,5	38	26	8,5	28	77
32530.W0101	Non Locking	24	12	12	51	8	27	16	10	28	5,5	38	26	9,5	38	77
32530.W0102	Non Locking	24	12	12	51	8	27	16	10	28	5,5	38	26	9,5	38	77
32530.W0104	Non Locking	32	12	20	51	8	27	16	10	28	5,5	38	26	9,5	38	80
32530.W0281	Locking	20	10	10	51	8	27	16	8	28	5,5	38	26	8,5	28	80
32530.W0282	Locking	22	10	12	51	8	27	16	8	28	5,5	38	26	8,5	28	80
32530.W0283	Locking	26	10	16	51	8	27	16	8	28	5,5	38	26	8,5	28	83
32530.W0202	Locking	24	12	12	51	8	27	16	10	28	5,5	38	26	9,5	38	83
32530.W0204	Locking	32	12	20	51	8	27	16	10	28	5,5	38	26	9,5	38	100

Index Plungers - Pull Grip & Pull Ring

flange mounting - non-locking



32540



Material

Body: die cast zinc, black.
Pin: stainless steel 1.4305 (AISI 303).
Pull ring: stainless steel 1.4305 (AISI 303).

Technical Notes

"Non Locking" type- pin simply springs back when pull ring released.

Integral mounting flange simplifies installation on flat surfaces.
Temperature resistant to 100°C.

Tips

Spring loads * = statistical average.

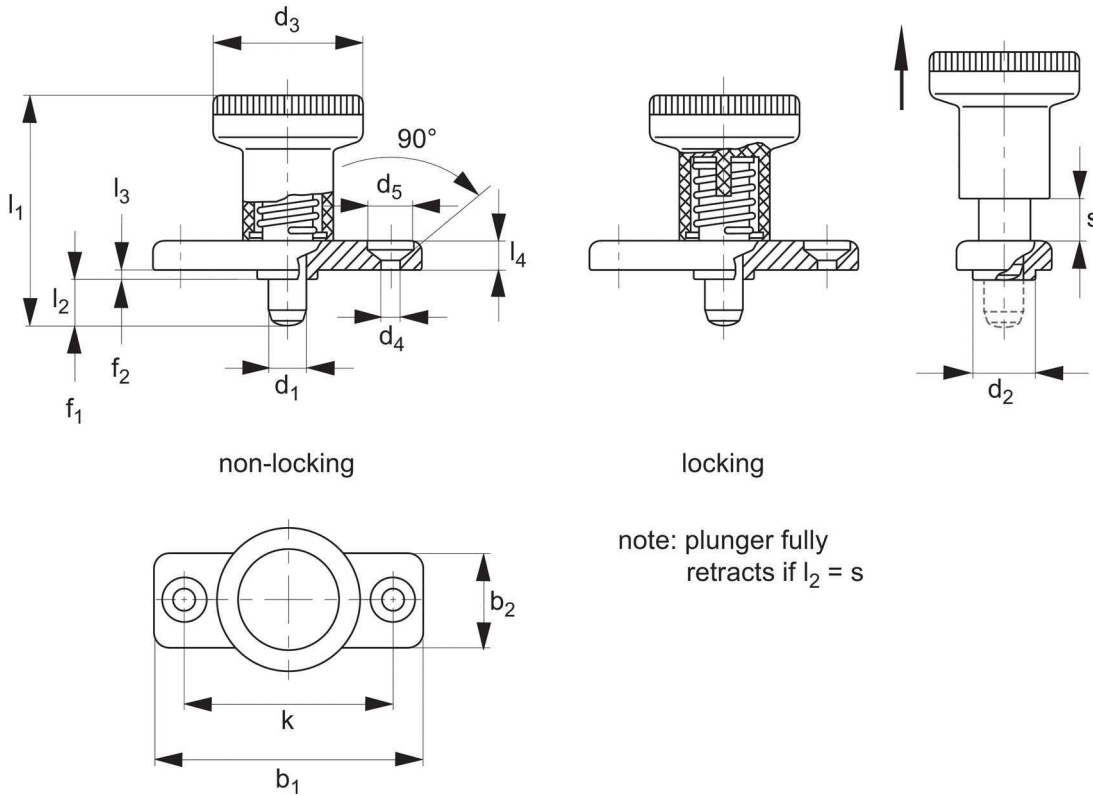
Order No.	Type	d ₁ h9	d ₃	b ₁	b ₂	b ₃	b ₄ -0,2	h ₁	h ₂	k ₁ ±0,0 5	k ₂	k ₃	k ₄	l ₁	l ₂ min	Spring load f ₁ N d* f ₂ N ≈	Spring load f ₂ N ≈	g
32540.W0304	Non Locking	4	14	16,5	22	6	3,3	4,0	7,0	14	4,0	8	4,5	34,5	4	3	12	10
32540.W0305	Non Locking	5	18	22,0	28	8	4,3	4,5	9,5	18	5,0	10	7,0	45,0	5	5	24	20
32540.W0306	Non Locking	6	24	27,5	32	10	5,4	5,0	10,5	21	5,5	12	10,0	57,5	6	5	21	40
32540.W0308	Non Locking	8	30	33,0	34	12	5,4	6,0	12,5	23	5,5	12	15,5	71,0	8	6	22	58
32540.W0310	Non Locking	10	30	35,0	39	14,5	6,5	6,0	14,5	27	6,0	15	13,5	75,0	10	4	25	83

Index Plunger - Pull Grip

flange mounting



32760



Material

Free Cutting Steel Type-

Body: die cast zinc, galvanised.
Pin: steel, hardened.

Grip: thermoplastic PA6, black

Stainless Steel Type-

Body: die-cast zinc, galvanised.
Pin: stainless steel, 1.4305 (AISI 303), nickel plated.

Grip: thermoplastic PA6, black

Technical Notes

"Locking" type- enable pin to be held in retracted position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released.

Integral mounting flange simplifies installation on flat surfaces.

Pin does not fully retract in all cases - note dimension 's' the stroke of the pin, i.e. the amount by which the pin retracts when actuated.

Temperature resistance -30°C to +80°C

Tips

Grip non-removable.

Spring loads * = statistical average.



Order No. Steel	Order No. Stainless	Type	d ₁ -0, 02 -0, 04	l ₂	b ₁	b ₂	d ₂ -0,0 2 -0,1	d ₃	d ₄	d ₅	k	l ₁	l ₃ -0,15	l ₄	s	Spring load* f ₁ N	Spring load* f ₂ N	Spring load* g
32760.W0926	32760.W0966	Non Locking	6	6	40	18	10	25	4,3	8,3	30	37	2,5	4,5	6	8,5	22	26
32760.W0927	32760.W0967	Non Locking	6	14	40	18	10	25	4,3	8,3	30	45	2,5	4,5	6	8,5	22	38
32760.W0928	32760.W0968	Non Locking	8	8	46	20	12	31	5,3	10,4	34	44	2,5	5,5	8	15,5	28	59
32760.W0929	32760.W0969	Non Locking	8	18	46	20	12	31	5,3	10,4	34	54	2,5	5,5	8	15,5	28	63
32760.W0936	32760.W0976	Locking	6	6	40	18	10	25	4,3	8,3	30	37	2,5	4,5	6	8,5	22	36
32760.W0937	32760.W0977	Locking	6	14	40	18	10	25	4,3	8,3	30	45	2,5	4,5	6	8,5	22	38
32760.W0938	32760.W0978	Locking	8	8	46	20	12	31	5,3	10,4	34	44	2,5	5,5	8	15,5	28	60
32760.W0939	32760.W0979	Locking	8	18	46	20	12	31	5,3	10,4	34	54	2,5	5,5	8	15,5	28	63

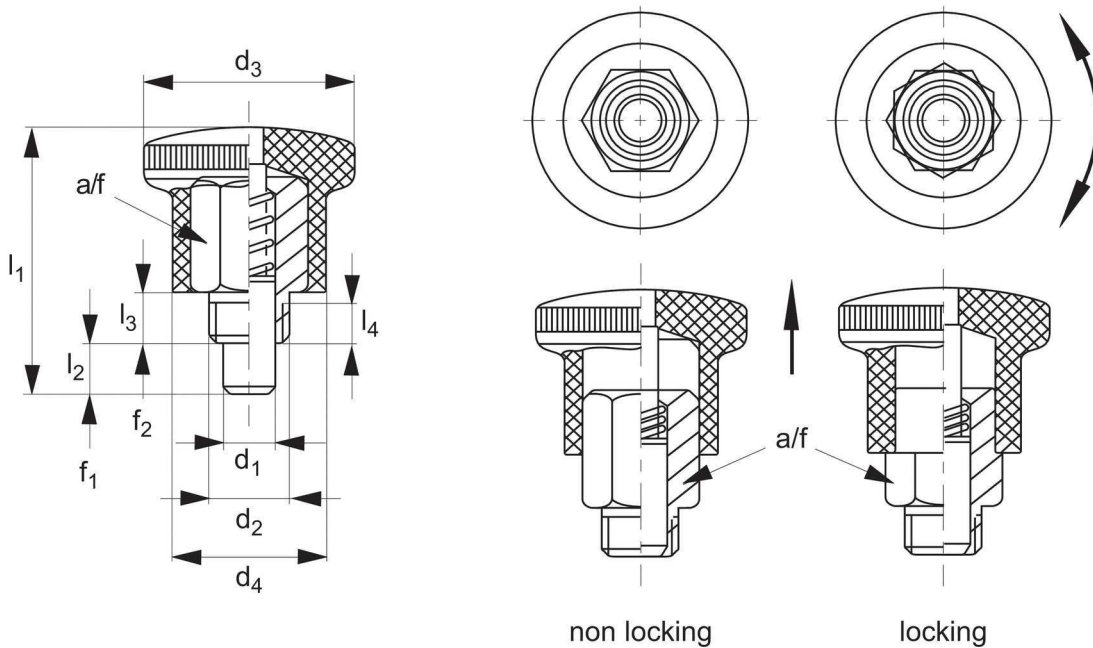


Index Plungers - Pull Grip

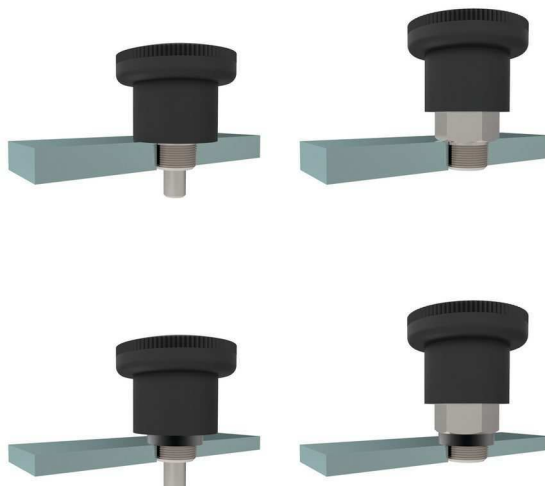
mini - for thin walled parts - extra fine thread



32600



Order No. Steel	Order No. Stainless	Type	d ₁ 0 -0,0 6	d ₂	d ₃	d ₄	l ₁	l ₂ min	l ₃	l ₄ min	a/f	Spring load* f ₁	Spring load* f ₂	g
32600.W0024	32600.W0224	Non Locking	4	M 8x0,75	21	15	26,5	5	5	3,5	10	4,5	12	14
32600.W0026	32600.W0226	Non Locking	5	M 8x0,75	21	15	26,5	5	5	3,5	10	4,5	12	14
32600.W0028	32600.W0228	Non Locking	6	M10x1,00	25	18	34,0	7	7	4,5	12	5,0	18	25
32600.W0030	32600.W0230	Non Locking	7	M10x1,00	25	18	34,0	7	7	4,5	12	5,0	18	26
32600.W0034	32600.W0234	Locking	4	M 8x0,75	21	15	26,5	5	5	3,5	10	4,5	12	13
32600.W0036	32600.W0236	Locking	5	M 8x0,75	21	15	26,5	5	5	3,5	10	4,5	12	14
32600.W0038	32600.W0238	Locking	6	M10x1,00	25	18	34,0	7	7	4,5	12	5,0	18	24
32600.W0040	32600.W0240	Locking	7	M10x1,00	25	18	34,0	7	7	4,5	12	5,0	18	25



Material

Free cutting steel type-

Body: free cutting steel, galvanized.
Pin: stainless steel 1.4305 (AISI 303).

Grip: thermoplastic PA 6, black.

Stainless steel type-

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303).

Grip: thermoplastic PA 6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released.

For positioning and indexing in the smallest of spaces. Particularly suited for use on sheet metal assemblies; e.g shopfitting displays, electrical cabinets and enclosures etc.

Extra fine thread

Temperature resistance from -30° to +80°C.

Distance collars no. 32750 can be used to adapt screw length.

Tips

Grip non-removable.

Spring loads * = statistical average.

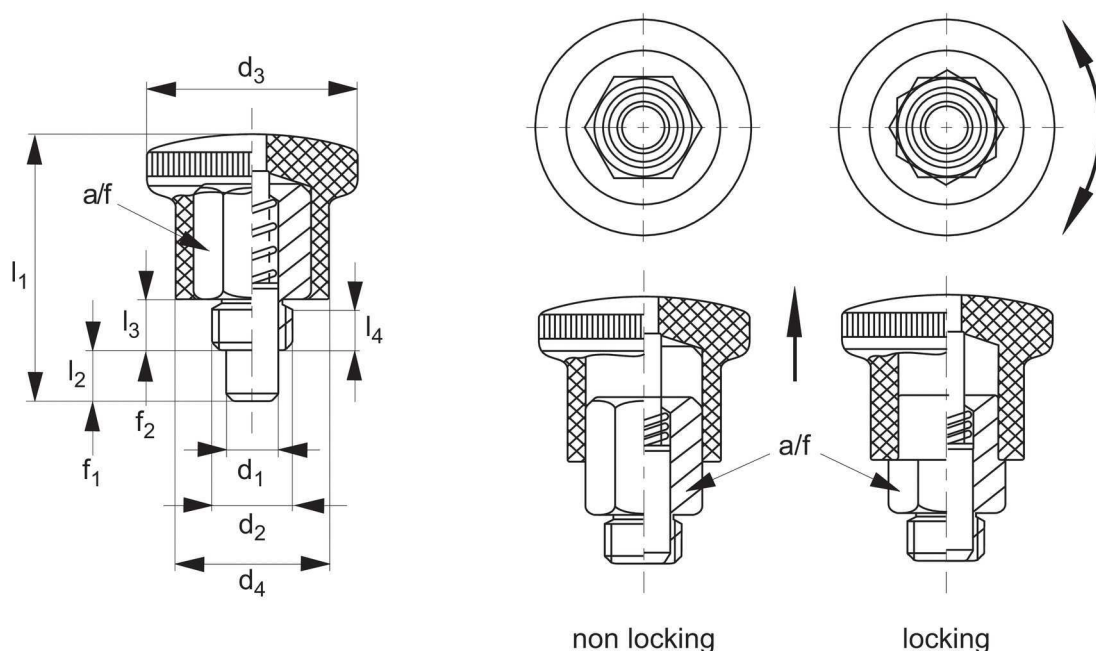


Index Plungers - Pull Grip

mini - for thin walled parts - fine thread



32602



Order No. Steel	Order No. Stainless Steel	Finish	d ₁	d ₂	d ₃	d ₄	l ₁	l ₂	l ₃	a/f	Sprin g load f ₁ N*	Sprin g load f ₂ N*	g g
32602.W0604	32602.W0704	Non Locking	4	M 8x1,00	21	15	27,5	5	6	10	4	12	14
32602.W0608	32602.W0708	Non Locking	5	M10x1,00	25	18	34,0	6	8	12	6	16	25
32602.W0612	32602.W0712	Non Locking	6	M10x1,00	25	18	34,0	6	8	12	6	16	25
32602.W0616	32602.W0716	Non Locking	6	M12x1,50	28	20	40,5	7	10	14	10	23	40
32602.W0620	32602.W0720	Non Locking	7	M12x1,50	28	20	40,5	7	10	14	10	23	41
32602.W0624	32602.W0724	Non Locking	8	M16x1,50	33	23	47,5	10	12	17	11	35	67
32602.W0628	32602.W0728	Non Locking	10	M16x1,50	33	23	47,5	10	12	17	11	35	69
32602.W0632	32602.W0732	Locking	4	M 8x1,00	21	15	27,5	5	6	10	4	12	13
32602.W0636	32602.W0736	Locking	5	M10x1,00	25	18	34,0	6	8	12	6	16	23
32602.W0640	32602.W0740	Locking	6	M10x1,00	25	18	34,0	6	8	12	6	16	25
32602.W0644	32602.W0744	Locking	6	M12x1,50	28	20	40,5	7	10	14	10	23	39
32602.W0648	32602.W0748	Locking	7	M12x1,50	28	20	40,5	7	10	14	10	23	39
32602.W0652	32602.W0752	Locking	8	M16x1,50	33	23	47,5	10	12	17	11	35	65
32602.W0656	32602.W0756	Locking	10	M16x1,50	33	23	47,5	10	12	17	11	35	67

Material

Free cutting steel type-

Body: free cutting steel, galvanized.
Pin: stainless steel 1.4305 (AISI 303).

Grip: thermoplastic PA 6, black.

Stainless steel type-

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303).

Grip: thermoplastic PA 6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released. For positioning and indexing in the smallest of spaces. Particularly suited for use on sheet metal assemblies; e.g shopfitting displays, electrical cabinets and enclosures etc.

Temperature resistance from -30° to +80°C.

Distance collars no. 32750 can be used to adapt screw length.

Fine Thread

Tips

Grip non-removable.

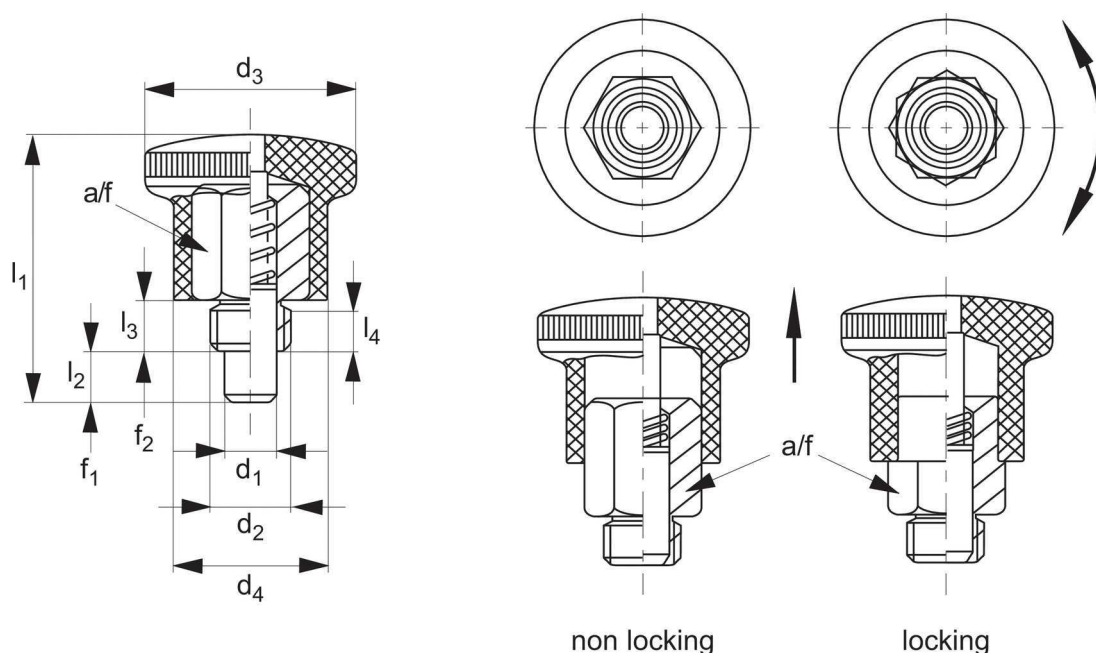
Spring loads * = statistical average.

Index Plungers - Pull Grip

mini - for thin walled parts - coarse thread



32604



Order No. Steel	Order No. Stainless Steel	Finish	d ₁	d ₂	d ₃	d ₄	l ₁	l ₂	l ₃	a/f	Sprin		g
											g load f ₁ N*	g load f ₂ N*	
32604.W0602	32604.W0702	Non Locking	4	M 8x1,25	21	15	27,5	5	6	10	4	12	14
32604.W0606	32604.W0706	Non Locking	5	M10x1,50	25	18	34,0	6	8	12	6	16	25
32604.W0610	32604.W0710	Non Locking	6	M10x1,50	25	18	34,0	6	8	12	6	16	25
32604.W0614	32604.W0714	Non Locking	6	M12x1,75	28	20	40,5	7	10	14	10	23	40
32604.W0618	32604.W0718	Non Locking	7	M12x1,75	28	20	40,5	7	10	14	10	23	41
32604.W0622	32604.W0722	Non Locking	8	M16x2,00	33	23	47,5	10	12	17	11	35	66
32604.W0626	32604.W0726	Non Locking	10	M16x2,00	33	23	47,5	10	12	17	11	35	68
32604.W0630	32604.W0730	Locking	4	M 8x1,25	21	15	27,5	5	6	10	4	12	13
32604.W0634	32604.W0734	Locking	5	M10x1,50	23	18	34,0	6	8	12	6	16	23
32604.W0638	32604.W0738	Locking	6	M10x1,50	25	18	34,0	6	8	12	6	16	24
32604.W0642	32604.W0742	Locking	6	M12x1,75	28	20	40,5	7	10	14	10	23	38
32604.W0646	32604.W0746	Locking	7	M12x1,75	28	20	40,5	7	10	14	10	23	39
32604.W0650	32604.W0750	Locking	8	M16x2,00	33	23	47,5	10	12	17	11	35	64
32604.W0654	32604.W0754	Locking	10	M16x2,00	33	23	47,5	10	12	17	11	35	66

Material

Free cutting steel type-

Body: free cutting steel, galvanized.
Pin: stainless steel 1.4305 (AISI 303).

Grip: thermoplastic PA 6, black.

Stainless steel type-

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303).

Grip: thermoplastic PA 6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released. For positioning and indexing in the smallest of spaces. Particularly suited for use on sheet metal assemblies; e.g shopfitting displays, electrical cabinets and enclosures etc.

Temperature resistance from -30° to +80°C.

Distance collars no. 32750 can be used to adapt screw length.

Coarse thread.

Tips

Grip non-removable.

Spring loads * = statistical average

Index Plungers - Pull Grip

mini - for thin walled parts - extra fine thread



32606



Order No.	Type	d ₁ 0 -0,06	d ₂	d ₃	d ₄	l ₁	l ₂ min	l ₃	a/f	Spring load* f ₁ N	Spring load* f ₂ N	g
32606.W1102	Non-Locking	4	M 8	21	15	27,5	5	6	10	4	12	28
32606.W1104	Non-Locking	4	M 8x1	21	15	27,5	5	6	10	4	12	28
32606.W1106	Non-Locking	5	M10	25	18	34,0	6	8	12	6	16	49
32606.W1108	Non-Locking	5	M10x1	25	18	34,0	6	8	12	6	16	50
32606.W1110	Non-Locking	6	M10	25	18	34,0	6	8	12	6	16	50
32606.W1112	Non-Locking	6	M10x1	25	18	34,0	6	8	12	6	16	50
32606.W1114	Non-Locking	6	M12	28	20	40,5	7	10	14	10	23	74
32606.W1116	Non-Locking	6	M12x1,5	28	20	40,5	7	10	14	10	23	75
32606.W1118	Non-Locking	7	M12	28	20	40,5	7	10	14	10	23	75
32606.W1120	Non-Locking	7	M12x1,5	28	20	40,5	7	10	14	10	23	75
32606.W1122	Non-Locking	8	M16	33	23	47,5	10	12	17	11	34	110
32606.W1124	Non-Locking	8	M16x1,5	33	23	47,5	10	12	17	11	35	113
32606.W1126	Non-Locking	10	M16	33	23	47,5	10	12	17	11	35	113
32606.W1128	Non-Locking	10	M16x1,5	33	23	47,5	10	12	17	11	35	113
32606.W1130	Locking	4	M 8	21	15	27,5	5	6	10	4	12	28
32606.W1132	Locking	4	M 8x1	21	15	27,5	5	6	10	4	12	28
32606.W1134	Locking	5	M10	25	18	34,0	6	8	12	6	16	49
32606.W1136	Locking	5	M10x1	25	18	34,0	6	8	12	6	16	50
32606.W1138	Locking	6	M10	25	18	34,0	6	8	12	6	16	50
32606.W1140	Locking	6	M10x1	25	18	34,0	6	8	12	6	16	50
32606.W1142	Locking	6	M12	28	20	40,5	7	10	14	10	23	74
32606.W1144	Locking	6	M12x1,5	28	20	40,5	7	10	14	10	23	75
32606.W1146	Locking	7	M12	28	20	40,5	7	10	14	10	23	75
32606.W1148	Locking	7	M12x1,5	28	20	40,5	7	10	14	10	23	75
32606.W1150	Locking	8	M16	33	23	47,5	10	12	17	11	35	110
32606.W1152	Locking	8	M16x1,5	33	23	47,5	10	12	17	11	35	113
32606.W1154	Locking	10	M16	33	23	47,5	10	12	17	11	35	113
32606.W1156	Locking	10	M16x1,5	33	23	47,5	10	12	17	11	35	113

Material

Stainless steel type-

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303).

Grip: stainless steel 1.4308 (AISI 304).

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released.

For positioning and indexing in the smallest of spaces. Particularly suited for use on sheet metal assemblies; e.g shopfitting displays, electrical cabinets and enclosures etc.

Extra fine thread

Temperature resistance up to 250°C.

Distance collars no. 32750 can be used to adapt screw length.

Tips

Grip non-removable.

Spring loads * = statistical average.

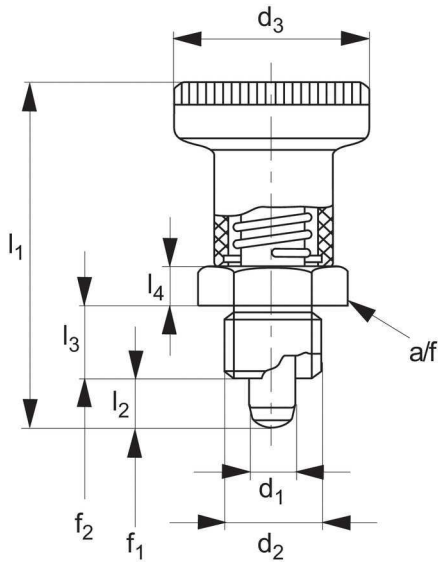


Index Plungers - Pull Grip

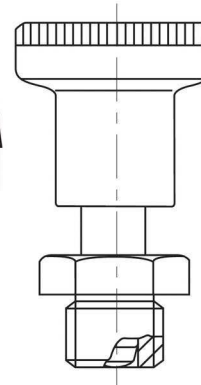
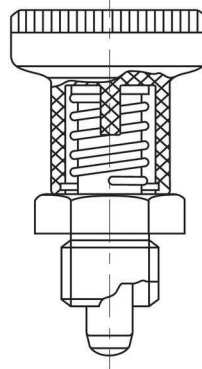
for thin walled parts



32730



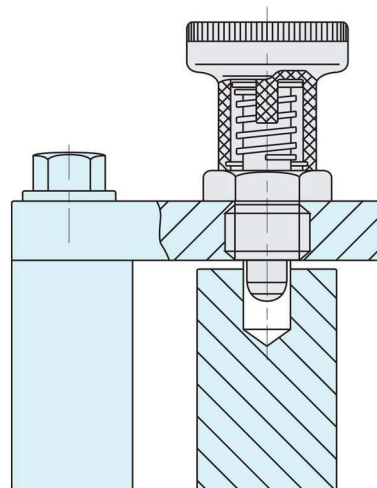
non locking



locking



Order No. Steel	Order No. Stainless	Type	d ₁ -0,02 -0,04	d ₂	d ₃	l ₁ ≈	l ₂ min.	l ₃ -0,15	l ₄	a/f	Sprin g load* f ₁ N	Sprin g load* f ₂ N	g g
32730.W0226	32730.W0246	Non Locking	6	M12x1,5	25	45	6	10	5	17	7	19	35,0
32730.W0228	32730.W0248	Non Locking	8	M16x1,5	31	54	8	12	6	19	14	24	62,0
32730.W0236	32730.W0256	Locking	6	M12x1,5	25	45	6	10	5	17	7	19	35,0
32730.W0238	32730.W0258	Locking	8	M16x1,5	31	54	8	12	6	19	14	24	61,0
32700.W0116	32700.W0516	Lock Nut	-	M12x1,5	-	-	-	-	-	-	-	-	7,4
32700.W0118	32700.W0518	Lock Nut	-	M16x1,5	-	-	-	-	-	-	-	-	18,0



Material

Free Cutting Steel type-

Body: free cutting steel, blackened.
Pin: steel, hardened.

Grip: thermoplastic PA6, black.

Stainless steel type -

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303), nickel plated.

Grip: thermoplastic PA6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released. Short bodied index plungers for compact applications. Hexagon collar improves leverage for secure installation.

Temperature resistance from -30° to +80°C.

Tips

Distance collars no. 32750 can be used to adapt screw length.

Spring loads * = statistical average.

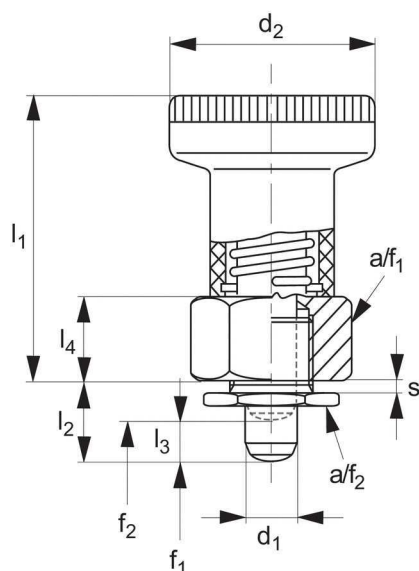


Index plungers - Pull Grip

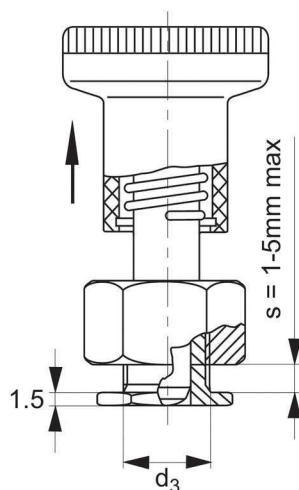
compact



32770



non-locking



locking



Material

Body: steel galvanised.
Pin: stainless steel 1.4305, nickel plated.
Grip: thermoplastic PA6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released. For installation on thin walled panels/sheet metal of thickness 1 to 5mm.

Pin does not fully retract in all cases - protrusion of pin 'l₃' dependant upon panel thickness of installation 's'

Temperature resistance -30°C to +80°C

Tips

Grip non-removable.
Spring loads* = statistical average.

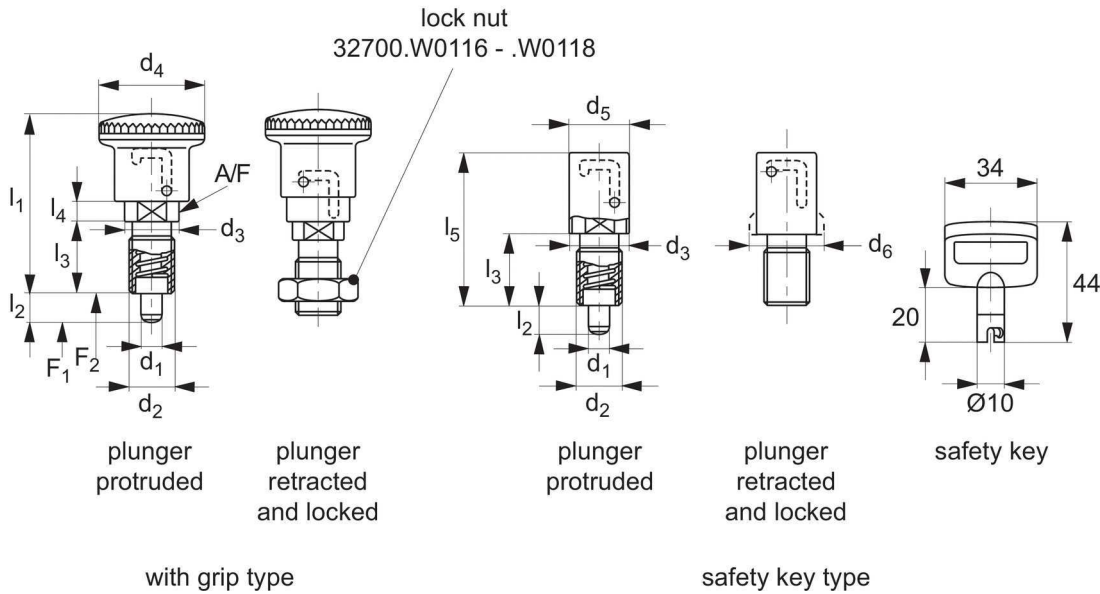
Order No.	Type	d ₁ -0,02 -0,04	l ₂	d ₂	d ₃	l ₁	l ₃	l ₄	s min.- max.	a/f ₁	a/f ₂	Spring load* f ₁ N	Spring load* f ₂ N	g g
32770.W0266	Locking	6	8,5	25	10	34	6,0	10	1-5	17	14	8,5	22	39
32770.W0267	Locking	6	10,5	25	10	34	6,0	10	1-5	17	14	8,5	22	40
32770.W0268	Locking	8	10,0	31	12	40	7,5	12	1-5	19	16	15,5	28	63
32770.W0269	Locking	8	12,0	31	12	40	7,5	12	1-5	19	16	15,5	28	63
32770.W0286	Non Locking	6	8,5	25	10	34	6,0	10	1-5	17	14	8,5	22	39
32770.W0287	Non Locking	6	10,5	25	10	34	6,0	10	1-5	17	14	8,5	22	39
32770.W0288	Non Locking	8	10,0	31	12	40	7,5	12	1-5	19	16	15,5	28	61
32770.W0289	Non Locking	8	12,0	31	12	40	7,5	12	1-5	19	16	15,5	28	62
32770.W0299	Spanner = a/f2	-	-	-	-	-	-	-	-	-	-	-	-	27

Index plungers - Pull Grip

locking - tamper resistant - pin protruding at start



32781



Order No.	Type	d ₁ 0 -0, 05	d ₂	d ₃	d ₄	d ₅	d ₆	l ₁ ≈	l ₂	l ₃	l ₄ ≈	l ₅	A/F	Spri ng lo ad* F ₁ N	Spri ng lo ad* F ₂ N	Kg
32781.W0006	With Grip	6	M12x1,5	16	28	17	-	50	8	20	6	43	14	13	28	0,05
32781.W0008	With Grip	8	M16x1,5	18	28	17	20	52	10	22	6	48	16	14	38	0,05
32781.W0026	For Safety key	6	M12x1,5	16	28	17	-	50	8	20	6	43	14	13	28	0,03
32781.W0028	For Safety key	8	M16x1,5	18	28	17	20	52	10	22	6	48	16	14	38	0,05
32700.W0116	Lock Nut	-	M12x1,5	-	-	-	-	-	-	-	-	-	-	-	-	-
32700.W0118	Lock Nut	-	M16x1,5	-	-	-	-	-	-	-	-	-	-	-	-	-
32781.W0998	Safety key	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Material

Body: free cutting steel, zinc plated, blue passivated.

Pin: stainless steel, 1.4305 (AISI 303).

Spring: stainless steel, 1.4310 (AISI 301).

Grip: thermoplastic PA6, black.

Technical Notes

Tamper resistant against unauthorised or accidental actuation.

At start position pin is protruding, when lever is actuated pin retracts.

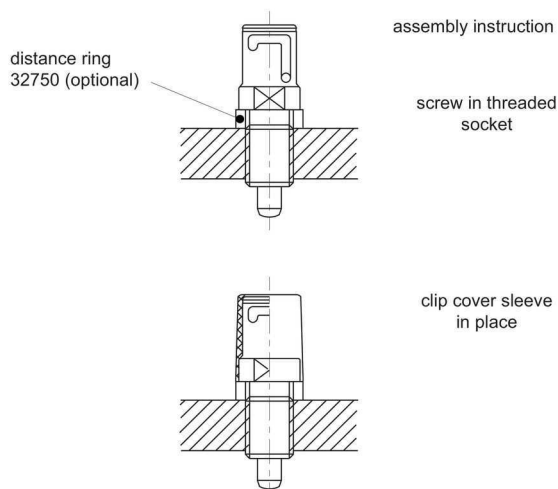
Two different types available;
with grip - enables pin to be held in retracted/non projecting position; pull back grip, turn 90° to engage 'locking' via a deep notch in plunger body.

with safety key - use key to hold pin in retracted/non-projecting position; acuate key (please order seperately) turn 90° to engage 'locking' via a deep notch in plunger body.

Tips

Grip non-removable.

Spring loads* = statistical average.

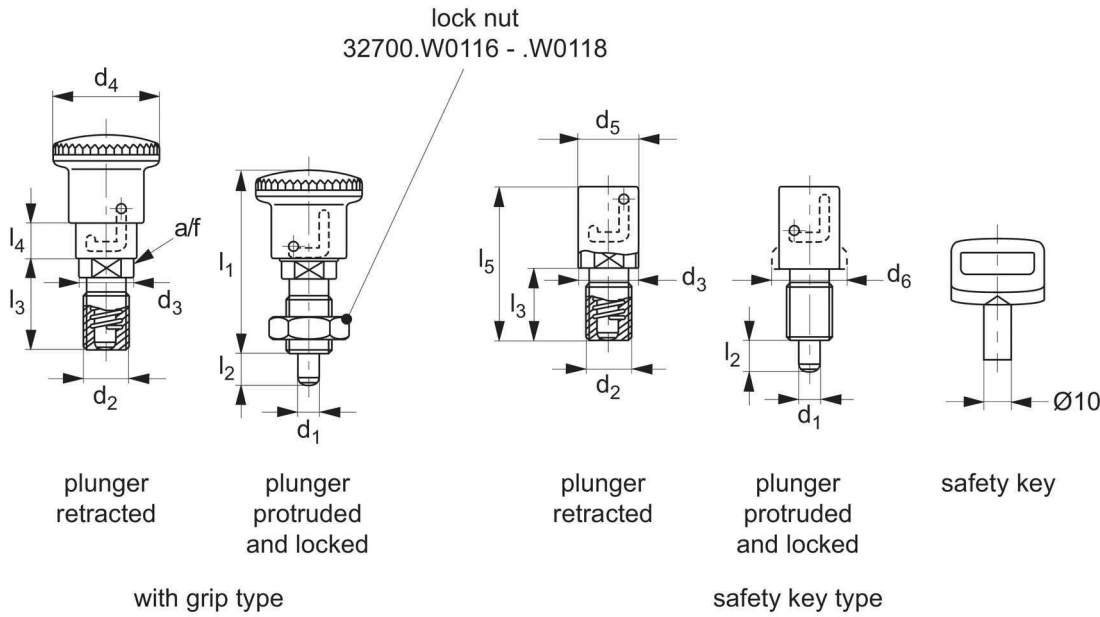


Index plungers - Pull Grip

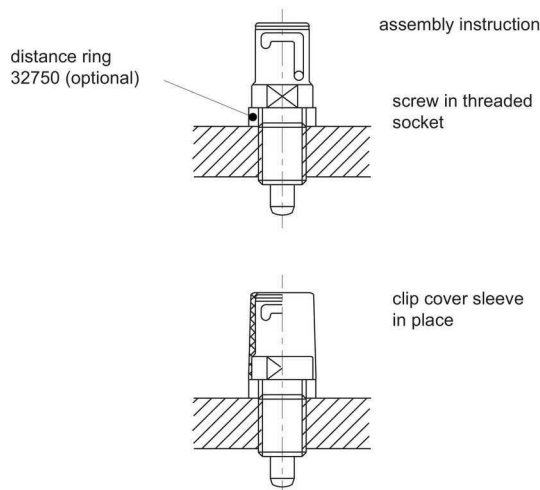
locking - tamper resistant - pin retracted at start



32782



Order No.	Type	d ₁ 0 -0,0 5	d ₂	d ₃	d ₄	d ₅	d ₆	l ₁ ≈	l ₂	l ₃	l ₄ ≈	l ₅	a/f	Spring load* F ₁ N	Spring load* F ₂ N	Kg
32782.W0356	With Grip	6	M12x1,5	16	28	17	-	51,5	8	20	6	43	14	12	27	0,05
32782.W0358	With Grip	8	M16x1,5	18	28	17	20	54,5	10	22	6	48	16	12	35	0,05
32782.W0366	For Safety Key	6	M12x1,5	16	28	17	-	51,5	8	20	6	43	14	12	27	0,05
32782.W0368	For Safety Key	8	M16x1,5	18	28	17	20	54,5	10	22	6	48	16	12	35	0,05
32700.W0116	Lock Nut	-	M12x1,5	-	-	-	-	-	-	-	-	-	-	-	-	-
32700.W0118	Lock Nut	-	M16x1,5	-	-	-	-	-	-	-	-	-	-	-	-	-
32782.W0999	Key	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Material

Body: free cutting steel, zinc plated, blue passivated.

Pin: stainless steel, 1.4305 (AISI 303).

Spring: stainless steel, 1.4301 (AISI301).

Grip: thermoplastic PA6, black.

Technical Notes

Tamper resistant against unauthorised or accidental actuation.

At start position pin is retracted, when lever is actuated pin protrudes.

Two different types available;
with grip - use key to hold pin in protruding position; pull back grip, turn 90° to engage 'locking' via a deep notch in plunger body.

with safety key - use key to hold pin in protruding position; actuate key (please order separately) turn 90° to engage 'locking' via a deep notch in plunger body.

Tips

Grip non-removable.

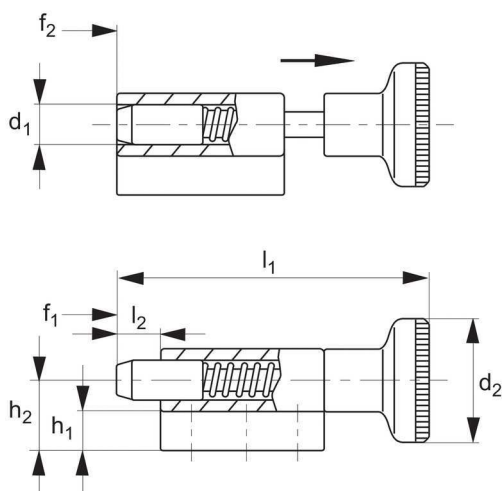
Spring loads* = statistical average.

Index Plungers - Pull Grip

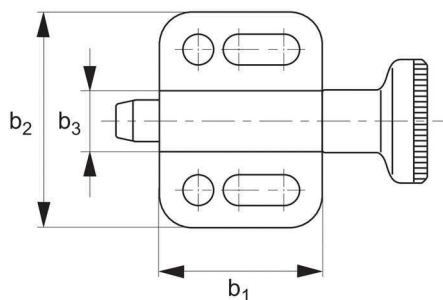
flange mounting - locking



32542



non locking



Material

Body: die cast zinc, black.
Pin: stainless steel 1.4305 (AIAI 303).
Grip: thermoplastic PA6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

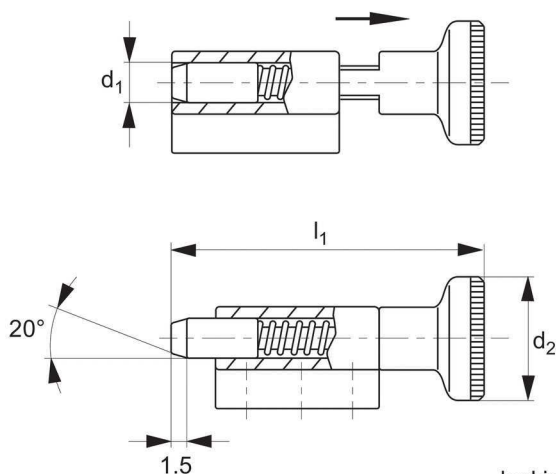
"Non Locking" type- pin simply springs back when grip released.

Integral mounting flange simplifies installation of index plunger on horizontal surfaces.

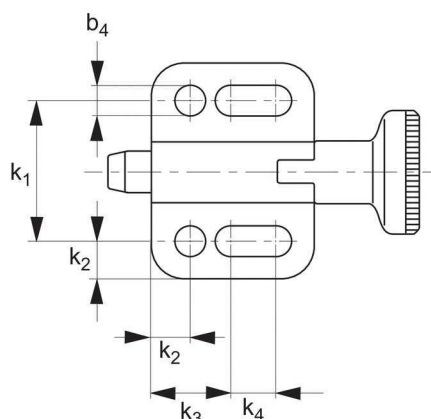
Temperature resistance from -30°C up to +80°C.

Tips

Grip non-removable.
Spring loads * = statistical average.



locking



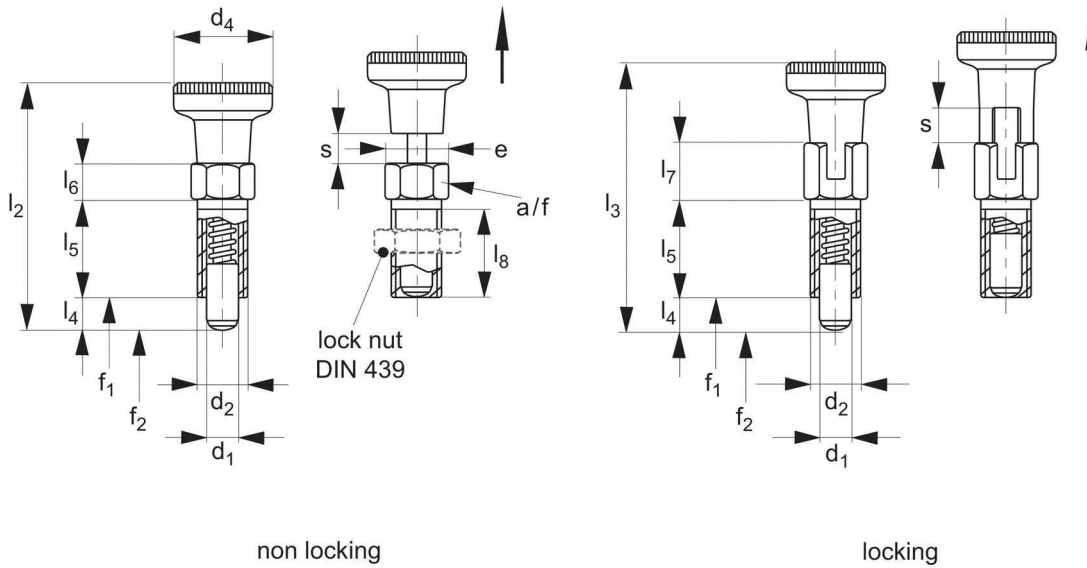
Order No.	Type	d ₁ h9	d ₂	b ₁	b ₂	b ₃	b ₄ -0,2	h ₁	h ₂	k ₁ ±0,0 5	k ₂	k ₃	k ₄	l ₁	l ₂ min	Spring load d* f ₁ N	Spring load oad f ₂ N	g
32542.W0324	Non Locking	4	12	16,5	22	6	3,3	4,0	7,0	14	4,0	8	4,5	30,5	4	3	12	11
32542.W0325	Non Locking	5	16	22,0	28	8	4,3	4,5	9,5	18	5,0	10	7,0	40,0	5	5	24	20
32542.W0326	Non Locking	6	18	27,5	32	10	5,4	5,0	10,5	21	5,5	12	10,0	49,0	6	5	21	37
32542.W0328	Non Locking	8	21	33,0	34	12	5,4	6,0	12,5	23	5,5	12	15,5	59,0	8	6	22	61
32542.W0330	Non Locking	10	25	35,0	39	14,5	6,5	6,0	14,5	27	6,0	15	13,5	67,5	10	4	25	90
32542.W0344	Locking	4	12	19,0	22	6	3,3	4,0	7,0	14	4,0	8	7,0	33,0	4	3	12	10
32542.W0345	Locking	5	16	25,5	28	8	4,3	4,5	9,5	18	5,0	10	10,5	43,5	5	5	24	26
32542.W0346	Locking	6	18	30,5	32	10	5,4	5,0	10,5	21	5,5	12	13,0	52,0	6	5	21	40
32542.W0348	Locking	8	21	37,5	34	12	5,4	6,0	12,5	23	5,5	12	20,0	63,5	8	6	22	67
32542.W0350	Locking	10	25	40,0	39	14,5	6,0	6,0	14,5	27	6,0	15	18,5	72,5	10	4	25	98

Index Plungers - Pull Grip

steel - coarse thread



32570



Order No.	Type	d ₁ h9	d ₂	d ₄	e	l ₂	l ₃	l ₄ =s min.	l ₅	l ₆	l ₇	l ₈	a/f	Sp rin g l o a d * f ₁ N ≈	Tigh teni ng l oad * f ₂ N ≈	Torq ue max Nm	△ g
32570.W0743	Non Lock	3	M 6x1,00	12	6,9	30,0	-	3,5	12	4,5	-	10,0	6	3	12	2	3,6
32570.W0744	Non Lock	4	M 6x1,00	12	6,9	30,5	-	4	12	4,5	-	10,0	6	3	12	2	4,0
32570.W0745	Non Lock	5	M 8x1,25	16	9,2	40,0	-	5	16	6,0	-	13,5	8	5	24	7	9,2
32570.W0746	Non Lock	6	M10x1,50	18	11,5	49,0	-	6	20	7,5	-	17,0	10	5	21	15	18,0
32570.W0748	Non Lock	8	M12x1,75	21	13,8	59,0	-	8	24	9,0	-	20,5	12	6	22	20	32,0
32570.W0763	Lock	3	M 6x1,00	12	6,9	-	32,5	3,5	12	-	7,0	10,0	6	3	12	2	3,8
32570.W0764	Lock	4	M 6x1,00	12	6,9	-	33,0	4	12	-	7,0	10,0	6	3	12	2	4,2
32570.W0765	Lock	5	M 8x1,25	16	9,2	-	43,5	5	16	-	9,5	13,5	8	5	24	7	9,8
32570.W0766	Lock	6	M10x1,50	18	11,5	-	52,0	6	20	-	10,5	17,0	10	5	21	15	18,0
32570.W0768	Lock	8	M12x1,75	21	13,8	-	63,5	8	24	-	13,5	20,5	12	6	22	20	32,0
32550.W0704	Nut	-	M 6x1,00	-	-	-	-	-	-	-	-	-	-	-	-	-	1,3
32550.W0705	Nut	-	M 8x1,25	-	-	-	-	-	-	-	-	-	-	-	-	-	2,8
32550.W0706	Nut	-	M10x1,50	-	-	-	-	-	-	-	-	-	-	-	-	-	5,3
32550.W0708	Nut	-	M12x1,75	-	-	-	-	-	-	-	-	-	-	-	-	-	7,6

Material

Body: steel, galvanized.
Pin: stainless steel 1.4305 (AISI 303).
Grip: thermoplastic PA 6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released.

For applications where high precision is not required.

Coarse thread.

Temperature resistance -30° C to +80° C.

Tips

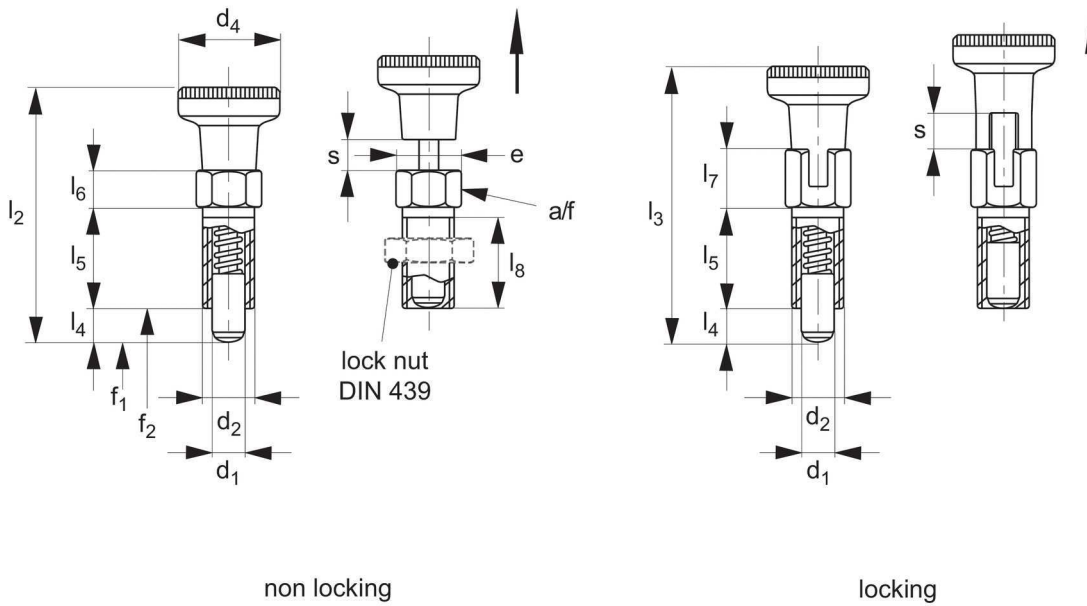
Grip non-removable.
Spring loads * = statistical average.

Index Plungers - Pull Grip

stainless - coarse thread



32571



Order No.	Type	d ₁ h9	d ₂	d ₄	e	l ₂	l ₃	l ₄ =s min.	l ₅	l ₆	l ₇	l ₈	a/f	Sp rin g l oa d* f ₁ N ≈	Spri ng l oad * f ₂ N ≈	Tigh teni ng t orq ue max Nm	△ g
32571.W0783	Non Lock	3	M 6x1,00	12	6,9	30,0	-	3,5	12	4,5	-	10,0	6	3	12	2	3,2
32571.W0784	Non Lock	4	M 6x1,00	12	6,9	30,5	-	4,0	12	4,5	-	10,0	6	3	12	2	4,0
32571.W0785	Non Lock	5	M 8x1,25	16	9,2	40,0	-	5,0	16	6,0	-	13,5	8	5	24	7	9,2
32571.W0786	Non Lock	6	M10x1,50	18	11,5	49,0	-	6,0	20	7,5	-	17,0	10	5	21	15	18,0
32571.W0788	Non Lock	8	M12x1,75	21	13,8	59,0	-	8,0	24	9,0	-	20,5	12	6	22	20	32,0
32571.W0793	Lock	3	M 6x1,00	12	6,9	-	32,5	3,5	12	-	7,0	10,0	6	3	12	2	3,8
32571.W0794	Lock	4	M 6x1,00	12	6,9	-	33,0	4,0	12	-	7,0	10,0	6	3	12	2	4,2
32571.W0795	Lock	5	M 8x1,25	16	9,2	-	43,5	5,0	16	-	9,5	13,5	8	5	24	7	9,8
32571.W0796	Lock	6	M10x1,50	18	11,5	-	52,0	6,0	20	-	10,5	17,0	10	5	21	15	18,0
32571.W0798	Lock	8	M12x1,75	21	13,8	-	63,5	8,0	24	-	13,5	20,5	12	6	22	20	32,0
32550.W0714	Nut	-	M 6x1,00	-	-	-	-	-	-	-	-	-	-	-	-	-	1,3
32550.W0715	Nut	-	M 8x1,25	-	-	-	-	-	-	-	-	-	-	-	-	-	2,8
32550.W0716	Nut	-	M10x1,50	-	-	-	-	-	-	-	-	-	-	-	-	-	5,3
32550.W0718	Nut	-	M12x1,75	-	-	-	-	-	-	-	-	-	-	-	-	-	7,6

Material

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303).

Grip: thermoplastic PA 6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released.

For applications where high precision is not required.

Coarse thread.

Temperature resistance -30° C to +80° C.

Tips

Grip non-removable.

Spring loads * = statistical average.

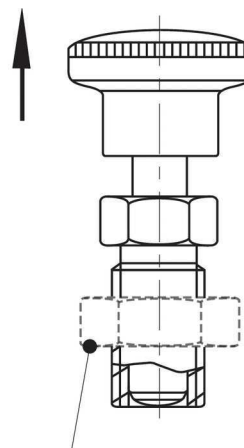
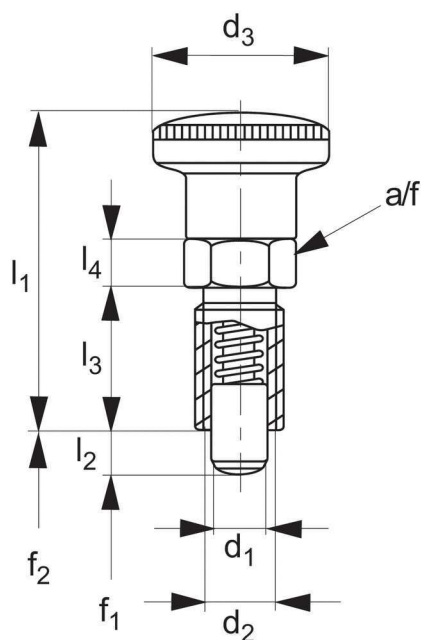


Index Plungers - Pull Grip

compact - non-locking



32680



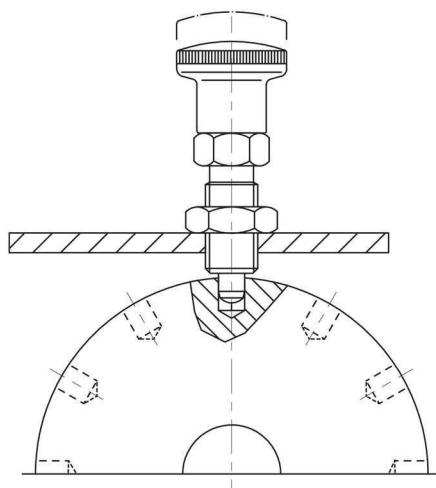
lock nut

32700.W0114 - .W0120 (steel)
32700.W0514 - .W0520 (stainless)

with grip



Order No. Steel	Order No. Stainless	Type	d ₁ -0,02 -0,04	l ₂ min.	d ₂	d ₃	l ₁	l ₃	l ₄	a/f	Spring load* f ₁ N	Spring load* f ₂ N	g
32680.W0103	32680.W0203	No Lock	4	4	M 8x1,0	16	35,0	16	5	10	4,5	12,0	10
32680.W0104	32680.W0204	No Lock	4	6	M 8x1,0	16	35,0	16	5	10	4,0	12,5	10
32680.W0106	32680.W0206	No Lock	5	5	M10x1,0	19	40,0	18	6	12	5,0	15,5	18
32680.W0107	32680.W0207	No Lock	5	8	M10x1,0	19	40,0	18	6	12	5,0	18,0	18
32680.W0109	32680.W0209	No Lock	6	6	M12x1,5	23	48,0	22	6	14	6,5	19,0	29
32680.W0110	32680.W0210	No Lock	6	9	M12x1,5	23	48,0	22	6	14	6,0	25,0	29
32680.W0112	32680.W0212	No Lock	8	8	M16x1,5	28	58,0	26	8	17	8,5	26,0	62
32680.W0113	32680.W0213	No Lock	8	12	M16x1,5	28	58,0	26	8	17	8,5	28,0	62
32680.W0115	32680.W0215	No Lock	10	12	M16x1,5	28	58,0	26	8	17	9,5	38,0	63
32680.W0116	32680.W0216	No Lock	12	15	M20x1,5	33	67,0	33	10	22	11,5	40,0	117
32680.W0117	32680.W0217	No Lock	16	20	M24x 2	33	78,5	38	12	27	13,0	54,0	204
32700.W0114	32700.W0514	Lock Nuts	-	-	M 8x1,0	-	-	-	-	-	-	-	3
32700.W0115	32700.W0515	Lock Nuts	-	-	M10x1,0	-	-	-	-	-	-	-	5
32700.W0116	32700.W0516	Lock Nuts	-	-	M12x1,5	-	-	-	-	-	-	-	7
32700.W0118	32700.W0518	Lock Nuts	-	-	M16x1,5	-	-	-	-	-	-	-	18
32700.W0120	32700.W0520	Lock Nuts	-	-	M20x1,5	-	-	-	-	-	-	-	32
32700.W0122	32700.W0522	Lock Nut	-	-	M24 x 2	-	-	-	-	-	-	-	58



Material

Free cutting steel type-

Body: free cutting steel, blackened.

Pin: steel, hardened.

Grip: thermoplastic PA6, black.

Stainless steel type -

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303), nickel plated.

Grip: thermoplastic PA6, black.

Technical Notes

"Non Locking" type- pin simply

springs back when grip released.

Thread recess on body allows full engagement of thread length.

Hexagon collar improves leverage for secure installation. Benefits

from a more compact design and hence shorter overall length.

Temperature resistance from -30° to +80°C.

Distance collars no. 32750 can be used to adapt screw length.

Tips

Grip non-removable.

Spring loads * = statistical average.

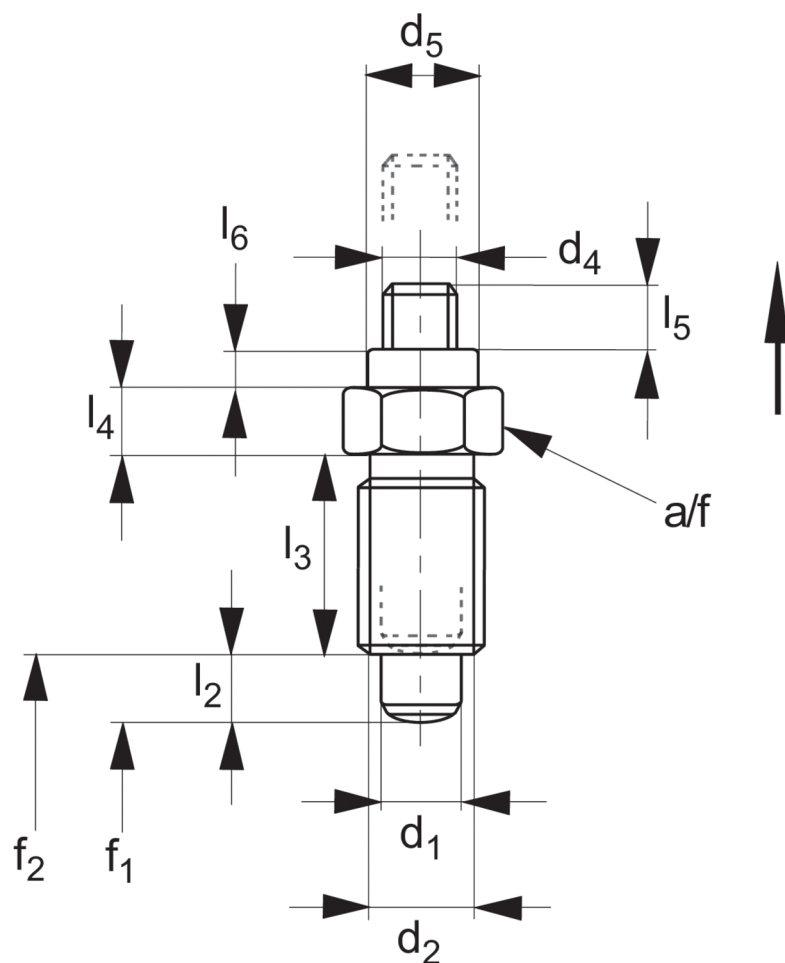


Index Plungers - No Grip

compact - non-locking



32681



No grip



Material

Free cutting steel type-

Body: free cutting steel, blackened.
Pin: steel, hardened.

Stainless steel type -

Body: stainless steel 1.4305 (AISI 303).
Pin: stainless steel 1.4305 (AISI 303), nickel plated.

Technical Notes

"Non Locking" type- pin simply

springs back when grip released. Thread recess on body allows full engagement of thread length. Hexagon collar improves leverage for secure installation. Benefits from a more compact design and hence shorter overall length.

Temperature resistance up to 250°C. Distance collars no. 32750 can be used to adapt screw length.

Tips

Spring loads * = statistical average. Threaded head of d₄ enables use of larger handle or grip better suited to your application. See palm grip no. 70000, or similar.



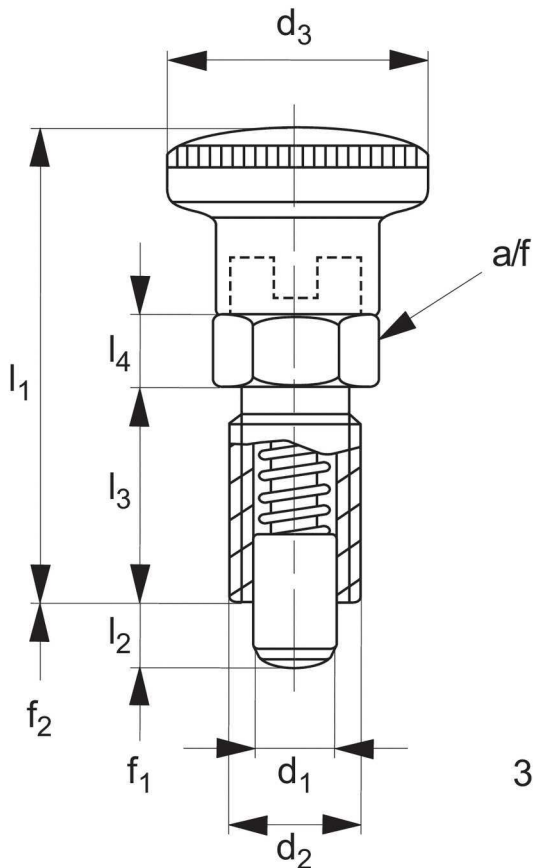
Order No. Steel	Order No. Stainless	Type	d ₁ -0,02 -0,04	l ₂ min.	d ₂	d ₄	d ₅	l ₃	l ₄	l ₅	l ₆	a/f	g
32681.W0143	32681.W0243	No Grip	4	4	M 8x1,0	M 3	7	16	5	4,5	2,5	10	9
32681.W0144	32681.W0244	No Grip	4	6	M 8x1,0	M 3	7	16	5	4,5	2,5	10	9
32681.W0146	32681.W0246	No Grip	5	5	M10x1,0	M 4	8	18	6	5,5	3,0	12	16
32681.W0147	32681.W0247	No Grip	5	8	M10x1,0	M 4	8	18	6	5,5	3,0	12	16
32681.W0149	32681.W0249	No Grip	6	6	M12x1,5	M 5	9	22	6	7,0	3,5	14	25
32681.W0150	32681.W0250	No Grip	6	9	M12x1,5	M 5	9	22	6	7,0	3,5	14	25
32681.W0152	32681.W0252	No Grip	8	8	M16x1,5	M 6	10	26	8	8,5	4,0	17	55
32681.W0153	32681.W0253	No Grip	8	12	M16x1,5	M 6	10	26	8	8,5	4,0	17	55
32681.W0155	32681.W0255	No Grip	10	12	M16x1,5	M 6	10	26	8	8,5	4,0	17	56
32681.W0156	32681.W0256	No Grip	12	15	M20x1,5	M 6	12	33	10	8,5	4,0	22	111
32681.W0157	32681.W0257	No Grip	16	20	M24 x 2	M8	15	38	12	11,5	5,0	27	194
32700.W0114	32700.W0514	Lock Nuts	-	-	M 8x1,0	-	-	-	-	-	-	-	3
32700.W0115	32700.W0515	Lock Nuts	-	-	M10x1,0	-	-	-	-	-	-	-	5
32700.W0116	32700.W0516	Lock Nuts	-	-	M12x1,5	-	-	-	-	-	-	-	7
32700.W0118	32700.W0518	Lock Nuts	-	-	M16x1,5	-	-	-	-	-	-	-	18
32700.W0120	32700.W0520	Lock Nuts	-	-	M20x1,5	-	-	-	-	-	-	-	32
32700.W0122	32700.W0522	Lock Nut	-	-	M24 x 2	-	-	-	-	-	-	-	58,0

Index Plungers - Compact

compact -locking



32690



lock nut sold separately
32700.W0114 - .W0120 (steel)
32700.W0514 - .W0520 (stainless)



Material

Free cutting steel type-
Body: free cutting steel, blackened.
Pin: steel, hardened.
Grip: thermoplastic PA6, black.
Stainless steel type -
Body: stainless steel 1.4305 (AISI 303).
Pin: stainless steel 1.4305 (AISI 303), nickel plated.
Grip: thermoplastic PA6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.
Thread recess on body allows full engagement of thread length.
Hexagon collar improves leverage for secure installation. Benefits from a more compact design and hence shorter overall length.
Temperature resistance from -30° to +80°C.
Distance collars no. 32750 can be used to adapt screw length.

Tips

Grip non-removable.
Spring loads * = statistical average.



Order No. Steel	Order No. Stainless	Type	d ₁ -0,02 -0,04	l ₂ min.	d ₂	d ₃	l ₁	l ₃	l ₄	a/f	Spring load* f ₁ N	Spring load* f ₂ N	g
32690.W0123	32690.W0223	Locking	4	4	M 8x1,0	16	35	16	5	10	4,5	12,0	12,0
32690.W0124	32690.W0224	Locking	4	6	M 8x1,0	16	35	16	5	10	4,0	12,5	12,0
32690.W0126	32690.W0226	Locking	5	5	M10x1,0	19	40	18	6	12	5,0	15,0	20,0
32690.W0127	32690.W0227	Locking	5	8	M10x1,0	19	40	18	6	12	5,0	18,0	20,0
32690.W0129	32690.W0229	Locking	6	6	M12x1,5	23	48	22	6	14	6,5	19,0	31,0
32690.W0130	32690.W0230	Locking	6	9	M12x1,5	23	48	22	6	14	6,0	25,0	33,0
32690.W0132	32690.W0232	Locking	8	8	M16x1,5	28	58	26	8	17	8,5	26,0	65,0
32690.W0133	32690.W0233	Locking	8	12	M16x1,5	28	58	26	8	17	8,5	28,0	68,0
32690.W0135	32690.W0235	Locking	10	12	M16x1,5	28	58	26	8	17	9,5	38,0	69,0
32690.W0136	32690.W0236	Locking	12	15	M20x1,5	33	67	33	10	22	11,5	40,0	125,0
32690.W0137	32690.W0237	Locking	16	20	M24 x 2	33	78,5	38	12	27	13,0	54,0	220
32700.W0114	32700.W0514	Lock Nut	-	-	M 8x1,0	-	-	-	-	-	-	-	2,7
32700.W0115	32700.W0515	Lock Nut	-	-	M10x1,0	-	-	-	-	-	-	-	5,2
32700.W0116	32700.W0516	Lock Nut	-	-	M12x1,5	-	-	-	-	-	-	-	7,4
32700.W0118	32700.W0518	Lock Nut	-	-	M16x1,5	-	-	-	-	-	-	-	18,0
32700.W0120	32700.W0520	Lock Nut	-	-	M20x1,5	-	-	-	-	-	-	-	32,0
32700.W0122	32700.W0522	Lock Nut	-	-	M24 x 2	-	-	-	-	-	-	-	58,0

Index Plungers - Compact

compact -locking



32690



Material

Free cutting steel type-

Body: free cutting steel, blackened.

Pin: steel, hardened.

Grip: thermoplastic PA6, black.

Stainless steel type -

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303), nickel plated.

Grip: thermoplastic PA6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

Thread recess on body allows full engagement of thread length.

Hexagon collar improves leverage for secure installation. Benefits from a more compact design and hence shorter overall length.

Temperature resistance from -30° to +80°C.

Distance collars no. 32750 can be used to adapt screw length.

Tips

Grip non-removable.

Spring loads * = statistical average.

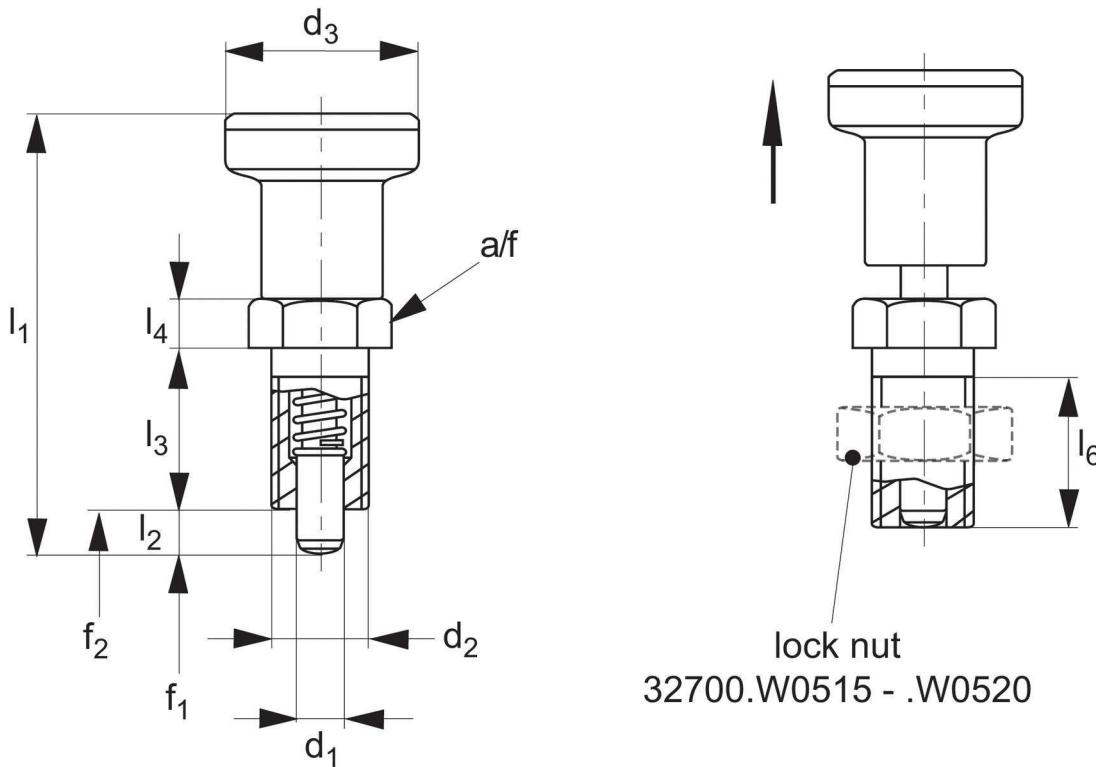


Index Plungers - Pull Grip

non-locking - ALL stainless



32702



lock nut
32700.W0515 - .W0520



Material

All Stainless Steel Type-

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303), nickel plated.

Grip: stainless steel 1.4305 (AISI 303).

Spring: stainless steel 1.4310 (AISI 301).

Technical Notes

"Non Locking" type- pin simply springs back when pull ring released. Thread recess on body allows full engagement of thread length. Hexagon collar improves leverage for secure installation. Temperature resistance from -30° to +80°C. Distance collars no. 32750 can be used to adapt screw length.

Tips

Complete stainless steel construction designed with specific demands of food processing, pharmaceutical and water treatment industries in mind. Grip non-removable.

Spring Loads* = statistical average.



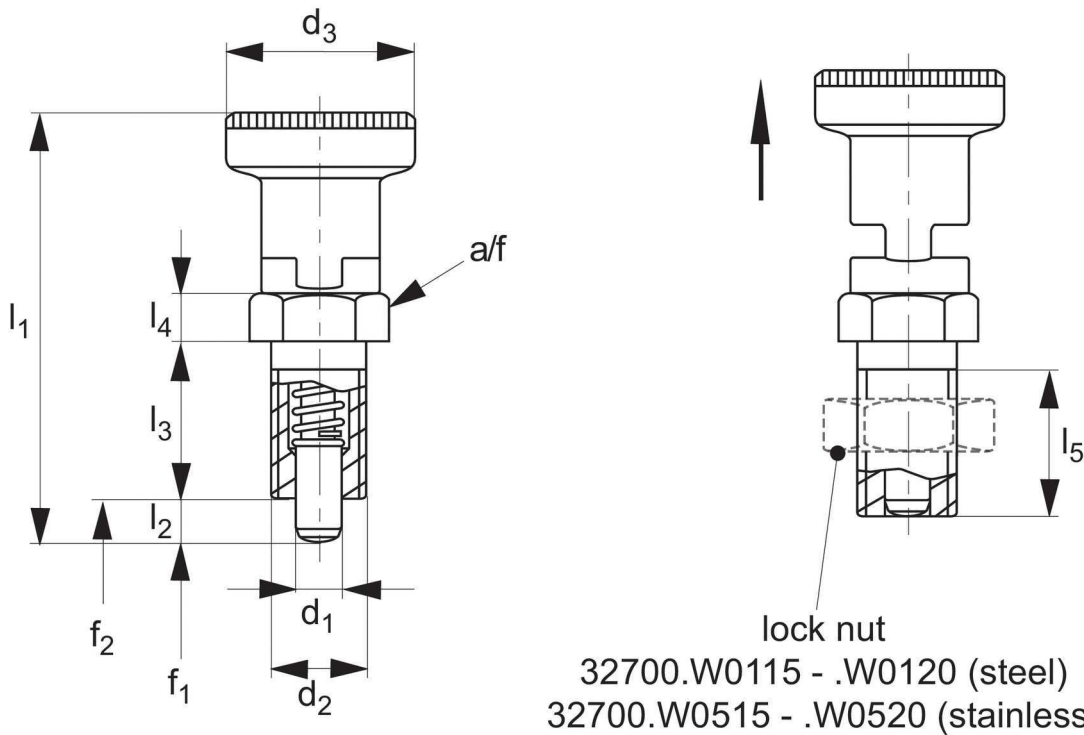
Order No.	Type	d ₁ - 0,02 - 0,04	d ₂	d ₃	l ₁ ≈	l ₂ min.	l ₃	l ₄	l ₆ min.	a/f	Spring load* f ₁ N	Spring load* f ₂ N	g
32702.W0705	Non locking	5	M10x1,0	21	45,0	5	17	5	15	12	6,0	14	39,0
32702.W0706	Non locking	6	M12x1,5	25	54,5	6	20	6	17	14	5,5	13	65,0
32702.W0707	Non locking	8	M16x1,5	31	69,0	8	26	8	23	19	11,5	28	132,0
32702.W0710	Non locking	10	M20x1,5	31	80,0	10	33	10	30	22	23,0	54	175,0
32700.W0515	Lock Nut	-	M10x1,0	-	-	-	-	-	-	-	-	-	5,2
32700.W0516	Lock Nut	-	M12x1,5	-	-	-	-	-	-	-	-	-	7,4
32700.W0518	Lock Nut	-	M16x1,5	-	-	-	-	-	-	-	-	-	18,0
32700.W0520	Lock Nut	-	M20x1,5	-	-	-	-	-	-	-	-	-	32,0

Index Plunger - Pull Grip

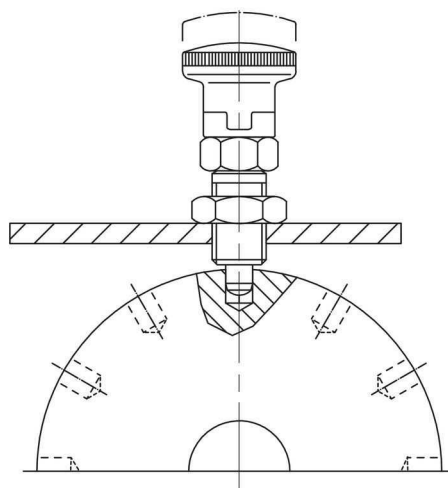
locking



32710



Order No. Steel	Order No. Stainless	Type	d ₁ -0,02 -0,04	d ₂	d ₃	l ₁ ≈	l ₂ min.	l ₃	l ₄	l ₅ min	a/f	Spring load* f ₁ N	Spring load* f ₁ N	g
32700.W0115	32700.W0515	Lock Nut	-	M10x1,0	-	-	-	-	-	-	-	-	-	5
32700.W0116	32700.W0516	Lock Nut	-	M12x1,5	-	-	-	-	-	-	-	-	-	7
32700.W0118	32700.W0518	Lock Nut	-	M16x1,5	-	-	-	-	-	-	-	-	-	18
32700.W0120	32700.W0520	Lock Nut	-	M20x1,5	-	-	-	-	-	-	-	-	-	32
32710.W0208	32710.W0608	Locking	8	M16x1,5	31	75,5	8	26	8	23	19	1,5	28	79
32710.W0210	32710.W0610	Locking	10	M20x1,5	31	91,0	10	33	10	30	22	28,0	54	134
32710.W0206	32710.W0606	Locking	6	M12x1,5	25	61,0	6	20	6	17	14	5,5	13	36
32710.W0205	32710.W0605	Locking	5	M10x1,0	21	51,0	5	17	5	15	12	6,0	14	22



Material

Free cutting steel type-
Body: free cutting steel, blackened.
Pin: hardened steel.
Grip: thermoplastic PA6, black.
Stainless steel type -
Body: stainless steel 1.4305 (AISI 303).
Pin: stainless steel 1.4305 (AISI 303), nickel plated.
Grip: thermoplastic PA6, black.

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.
Thread recess on body allows full engagement of thread length.
Hexagon collar improves leverage for secure installation.
Temperature resistance from -30° to +80°C.
Distance collars no. 32750 can be used to adapt screw length.

Tips

Grip non-removable.
Spring loads * = statistical average.

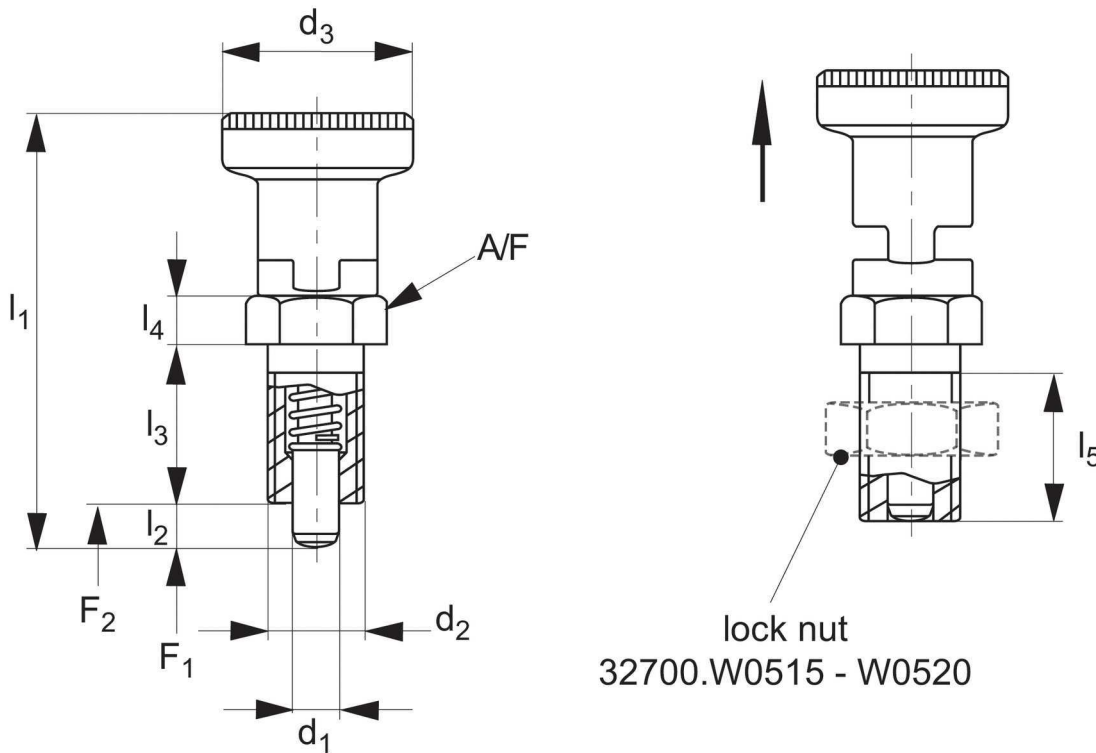


Index Plunger - Pull Grip

locking - all stainless



32712



Material

All Stainless Steel Type-

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305, nickel plated.

Grip: stainless steel 1.4305 (AISI 303).

Spring: stainless steel 1.4310 (AISI 301).

Technical Notes

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

Thread recess on body allows full engagement of thread length.

Hexagon collar improves leverage for secure installation.

Temperature resistance from -30° to +80°C.

Distance collars no. 32750 can be used to adapt screw length.

Tips

Complete stainless steel construction designed with specific demands of food processing, pharmaceutical and water treatment industries in mind. Grip non-removable.

Spring Loads* = statistical average.



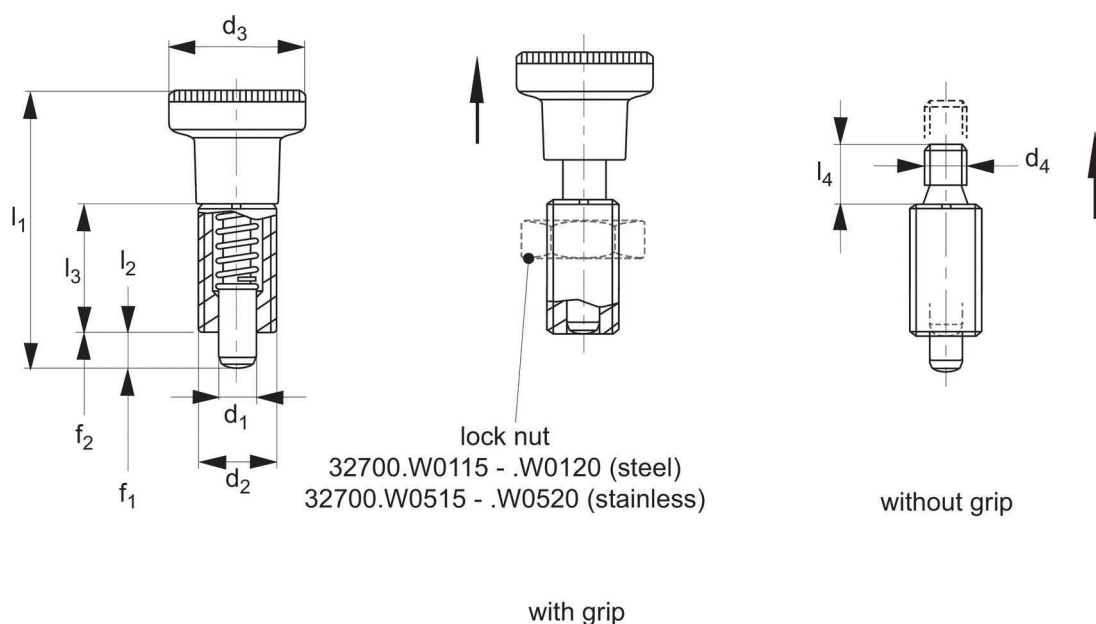
Order No.	Type	d ₁ -0,02 -0,04	d ₂	d ₃	l ₁ ≈	l ₂ min.	l ₃	l ₄	l ₅	A/F	Spring load* F ₁ N ≈	Spring load* F ₂ N ≈	g
32712.W0705	Locking	5	M10x1,0	21	51,0	5	17	5	15	12	6,0	14	43
32712.W0706	Locking	6	M12x1,5	25	61,0	6	20	6	17	14	5,5	13	71
32712.W0708	Locking	8	M16x1,5	31	75,5	7	26	8	23	19	11,5	28	144
32712.W0710	Locking	10	M20x1,5	31	91,0	10	33	10	30	22	28,0	54	202
32700.W0515	Lock Nut	-	M10x1,0	-	-	-	-	-	-	-	-	-	5
32700.W0516	Lock Nut	-	M12x1,5	-	-	-	-	-	-	-	-	-	7
32700.W0518	Lock Nut	-	M16x1,5	-	-	-	-	-	-	-	-	-	18
32700.W0520	Lock Nut	-	M20x1,5	-	-	-	-	-	-	-	-	-	32

Index Plunger - Pull Grip

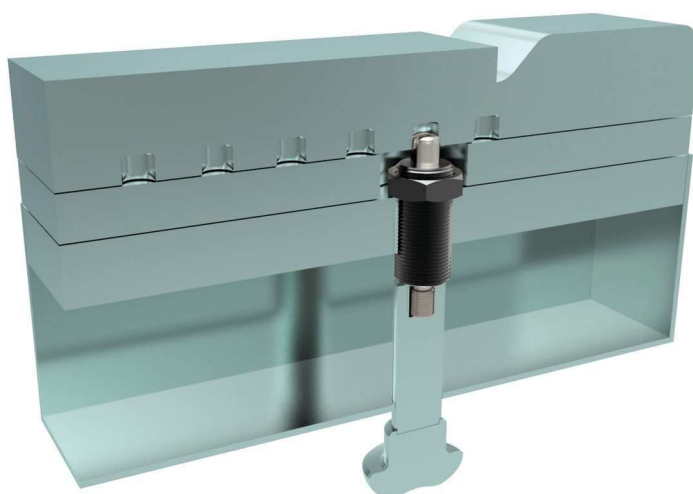
non-locking



32740



Order No. Steel	Order No. Stainless	Type	d ₁ -0,02 -0,04	d ₂	d ₃	d ₄	l ₁ ≈	l ₂ min	l ₃	l ₄	Spring load* f ₁ N	Spring load* f ₂ N	g g
32700.W0115	32700.W0515	Lock Nut	-	M10x1,0	-	-	-	-	-	-	-	-	5
32700.W0116	32700.W0516	Lock Nut	-	M12x1,5	-	-	-	-	-	-	-	-	7
32700.W0118	32700.W0518	Lock Nut	-	M16x1,5	-	-	-	-	-	-	-	-	18
32700.W0120	32700.W0520	Lock Nut	-	M20x1,5	-	-	-	-	-	-	-	-	32
32740.W0045	32740.W0445	With Grip	5	M10x1,0	21	-	45,0	5	22	-	6,0	14	17
32740.W0046	32740.W0446	With Grip	6	M12x1,5	25	-	54,5	6	26	-	5,5	13	27
32740.W0048	32740.W0448	With Grip	8	M16x1,5	31	-	69,0	8	34	-	11,5	28	63
32740.W0050	32740.W0450	With Grip	10	M20x1,5	31	-	80,0	10	41	-	23,0	54	104
32740.W0955	-	Assembly Tool	-	for M10x1,0	-	-	-	-	-	-	-	-	10
32740.W0956	-	Assembly Tool	-	for M12x1,5	-	-	-	-	-	-	-	-	14
32740.W0958	-	Assembly Tool	-	for M16x1,5	-	-	-	-	-	-	-	-	25
32740.W0960	-	Assembly Tool	-	for M20x1,5	-	-	-	-	-	-	-	-	27
32740.W0065	32740.W0465	No Grip	5	M10x1,0	-	M 5	-	5	22	6	6,0	14	12
32740.W0066	32740.W0466	No Grip	6	M12x1,5	-	M 6	-	6	26	10	5,5	13	12
32740.W0068	32740.W0468	No Grip	8	M16x1,5	-	M 8	-	8	34	12	11,5	28	46
32740.W0070	32740.W0470	No Grip	10	M20x1,5	-	M 8	-	10	43	12	23,0	54	87



Material

Free Cutting Steel Type-

Body: free cutting steel, blackened.
Pin: steel, hardened.

Grip: thermoplastic PA6, black.

Stainless steel type -

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303), nickel plated.

Grip: thermoplastic PA6, black.

Technical Notes

"Non Locking" type- pin simply springs back when pull ring released.

Plungers without grip enable your own adaptation with actuation grip/lever to your own design.

Installation requires use of specific assembly tool, see data table.

Without grip temperature resistance up to 250°C.

Tips

Grip non-removable.

Spring loads * = statistical average.

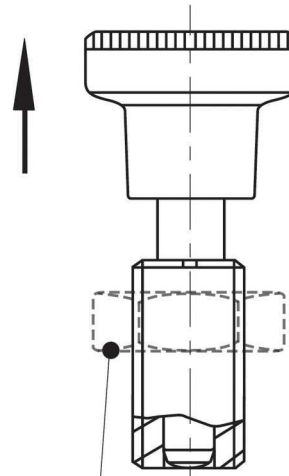
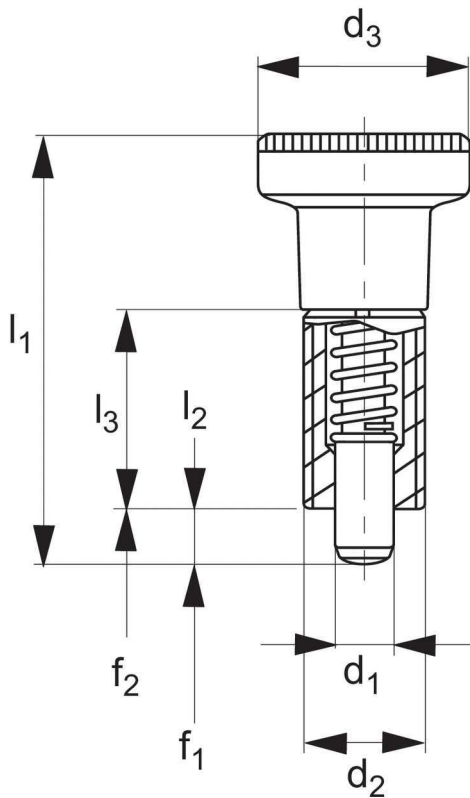


Index Plunger - Pull Grip

non-locking - ALL stainless



32742



lock nut
32700.W0515 - .W0520



Material

All Stainless Steel Type-

Body: stainless steel 1.4305 (AISI 303).
Locking pin: stainless steel 1.4305 (AISI 303), nickel plated.
Grip: stainless steel 1.4305 (AISI 303).
Spring: stainless steel 1.4310 (AISI 301).

Technical Notes

"Non Locking" type- pin simply springs back when pull ring released.

Temperature resistance -30°C to +80°C

Installation requires use of specific assembly tool, see part nos. 32740.W0955 to .W0960.

Tips

Complete stainless steel construction designed with specific demands of food processing, pharmaceutical and water treatment industries in mind. Grip non-removable.

Spring Load* = statistical average.



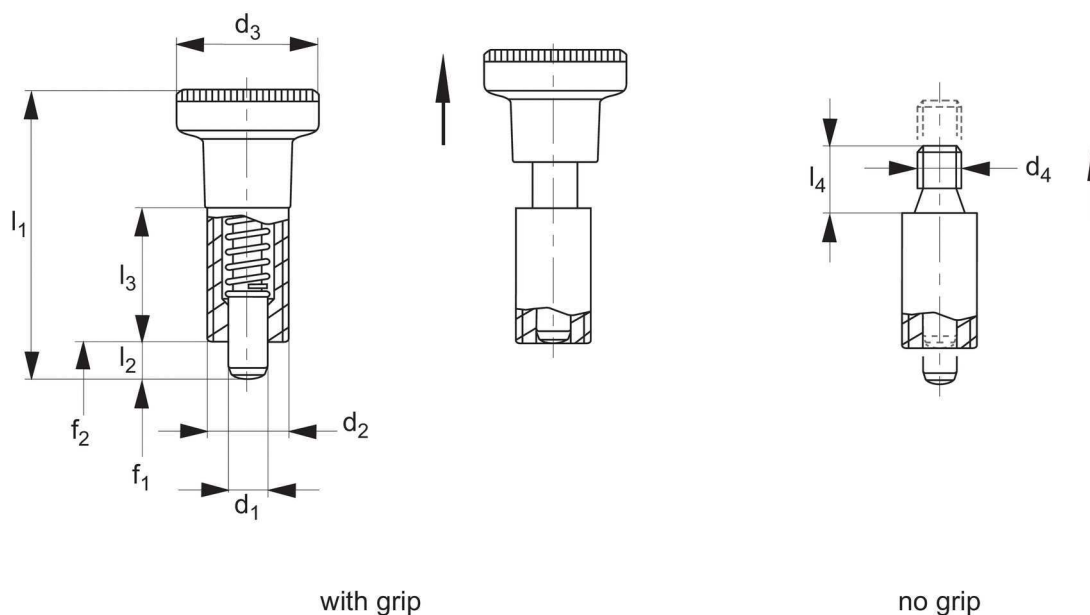
Order No.	Type	d ₁ -0,02 -0,04	d ₂	d ₃	l ₁ ≈	l ₂ min.	l ₃	Spring load* f ₁ N	Spring load* f ₂ N	g
32742.W0705	Non Locking	5	M10x1,0	21	45,0	5	22	6,0	14	37,0
32742.W0706	Non Locking	6	M12x1,5	25	54,5	6	26	5,5	13	62,0
32742.W0707	Non Locking	8	M16x1,5	31	69,0	8	34	11,5	28	124,0
32742.W0710	Non Locking	10	M20x1,5	31	80,0	10	43	23,0	54	165,0
32700.W0515	Lock Nut	-	M10x1,0	-	-	-	-	-	-	5,2
32700.W0516	Lock Nut	-	M12x1,5	-	-	-	-	-	-	7,4
32700.W0518	Lock Nut	-	M16x1,5	-	-	-	-	-	-	18,0
32700.W0520	Lock Nut	-	M20x1,5	-	-	-	-	-	-	32,0

Index Plunger - Pull Grip

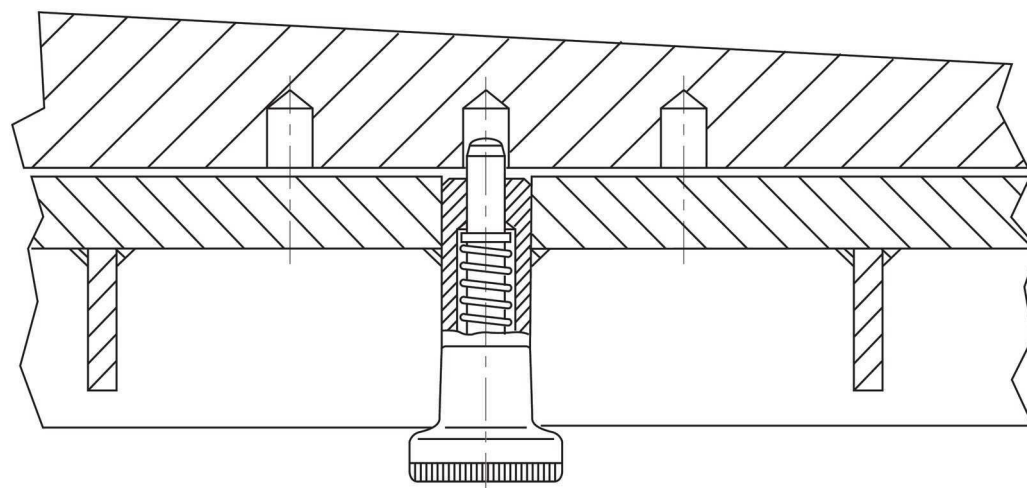
weldable - non-locking



32720



Order No.	Type	d ₁ -0.02 -0.04	d ₂ h9	d ₃	d ₄	l ₁ ≈	l ₂ min.	l ₃	l ₄	Spring load* f ₁ N	Spring load* f ₂ N	g
32720.W0805	With Grip	5	12	21	-	45,0	5	22	-	7,0	16	25
32720.W0806	With Grip	6	14	25	-	54,5	6	26	-	6,5	15	40
32720.W0808	With Grip	8	18	31	-	69,0	8	34	-	12,0	31	84
32720.W0825	No Grip	5	12	-	M 5	-	5	22	6	7,0	16	19
32720.W0826	No Grip	6	14	-	M 6	-	6	26	10	6,5	15	32
32720.W0828	No Grip	8	18	-	M 8	-	8	34	12	12,0	31	67



Material

Body: free cutting steel, blackened, weldable.
Pin: hardened steel.
Grip: plastic (PA 6), black, non-removable.

Technical Notes

"Non Locking" type- pin simply springs back when pull ring released.

Designed specifically for installation via welding or use of glues. Plungers without grip enable your own adaptation with actuation grip/lever to your own design. Without grip temperature resistance up to 250°C .

Tips

Grip non-removable.
Spring loads * = statistical average.

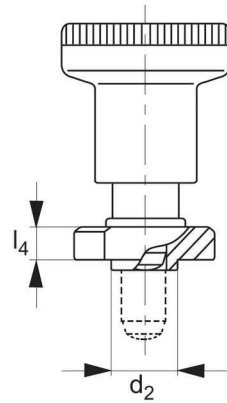
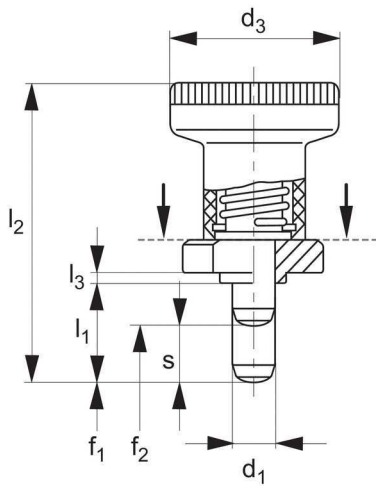


Index Plungers - Pull Grip

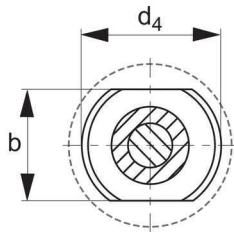
weldable - flange mounting - compact



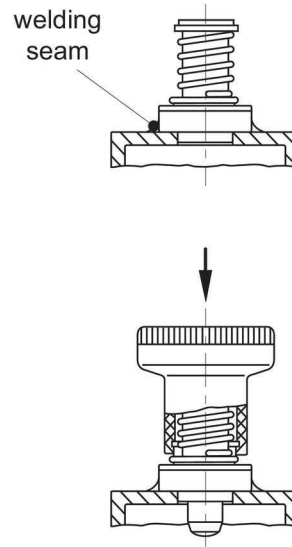
32762



note: plunger fully retracts if $l_1 = s$



assembly instruction



to prevent damage to grip, first weld index body in place, then install grip using soft faced mallet



Material

Body: steel blackened.
Locking Pin: hardened.
Grip: black matte finish, not removable.

Technical Notes

"Locking" type- enable pin to be held in retracted position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type- pin simply springs back when grip released. Installation requires welding of plunger body to component. To avoid damage to plastic grip, item is supplied part assembled. Grip is driven in indexing mechanism with a light mallet. Non removable once installed.

Pin does not fully retract in all cases - note dimension 's' the stroke of the pin, i.e. the amount by which the pin retracts when actuated.

Temperature resistance -30°C to +80°C

Tips

Spring load* = statistical average.

Important Notes

Only parts 32762.W0826, W0828, W0836 and W0838 have fully retractable index bolt. Bolt of other parts do not fully retract into body, instead bolt will protrude by l_1 -s when grip actuated.

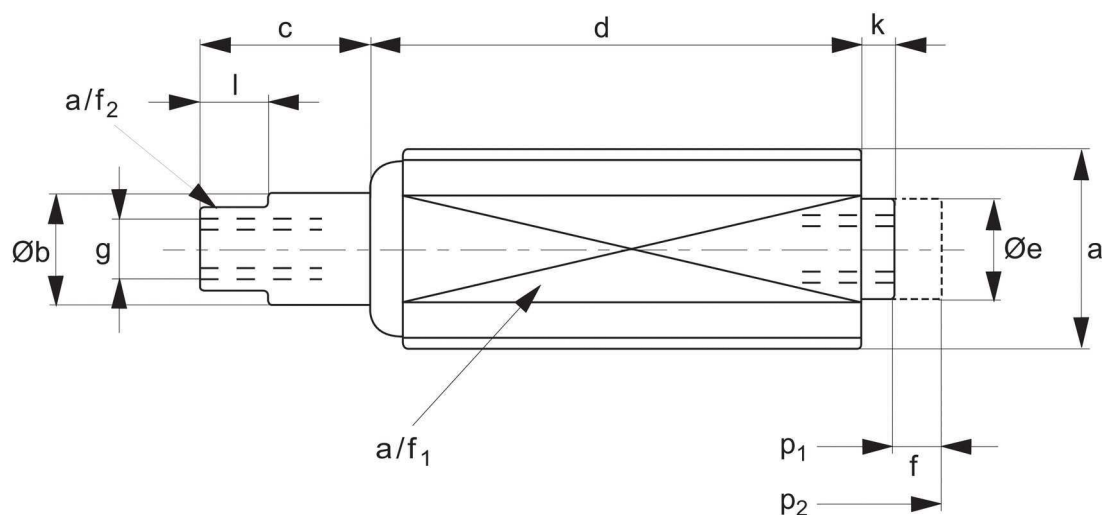
Order No.	Type	d_1 -0,02 -0,1	l_1	b	d_2 -0,02 -0,04	d_3	d_4	l_2	l_3	l_4	s	Spring load* f_1 N	Spring load* f_2 N	Axial Load [N]	 g
32762.W0826	Non Locking	6	6	18	10	25	22	37	1,5	5,5	6	8,5	22	400	35
32762.W0827	Non Locking	6	14	18	10	25	22	37	1,5	5,5	6	8,5	22	400	36
32762.W0828	Non Locking	8	8	20	12	31	25	44	2,0	6,5	8	15,5	28	500	55
32762.W0829	Non Locking	8	18	20	12	31	25	44	2,0	6,5	8	15,5	28	500	60
32762.W0836	Locking	6	6	18	10	25	22	37	1,5	5,5	6	8,5	22	400	35
32762.W0837	Locking	6	14	18	10	25	22	37	1,5	5,5	6	8,5	22	400	36
32762.W0838	Locking	8	8	20	12	31	25	44	2,0	6,5	8	15,5	28	500	55
32762.W0839	Locking	8	18	20	12	31	25	44	2,0	6,5	8	15,5	28	500	60

Index plungers - Push-Pull

non-locking



32790



Order No.	a	Øb	c	d -1	Øe	f	g	a/f ₁	k	l	p ₁ N	p ₂ N	a/f ₂	g
32790.W0120	M12	7	4,5	11,0	6	3,5	M 4x8	10	1,5	5	5	20	6	5
32790.W0121	M12	7	7,0	18,5	6	6,0	M 4x8	10	1,5	5	5	20	6	8
32790.W0122	M12	7	11,0	26,0	6	10,0	M 4x8	10	1,5	5	5	20	6	12
32790.W0130	M12	7	4,5	11,0	6	3,0	M 4x8	10	1,5	5	15	80	6	5
32790.W0131	M12	7	7,0	18,5	6	5,0	M 4x8	10	1,5	5	15	80	6	8
32790.W0132	M12	7	11,0	26,0	6	8,0	M 4x8	10	1,5	5	15	80	6	12
32790.W0140	M12	7	4,5	11,0	6	3,0	M 4x8	10	1,5	5	30	125	6	5
32790.W0141	M12	7	7,0	18,5	6	5,0	M 4x8	10	1,5	5	30	125	6	8
32790.W0142	M12	7	11,0	26,0	6	8,0	M 4x8	10	1,5	5	30	125	6	13
32790.W0180	M18x1,5	11	6,0	17,0	10	4,0	M 6x12	16	2,0	6	50	150	9	22
32790.W0181	M18x1,5	11	11,5	29,5	10	7,0	M 6x12	16	2,0	6	50	150	9	43
32790.W0182	M18x1,5	11	16,0	45,5	10	12,5	M 6x12	16	2,0	6	50	150	9	66

Material

Body: steel, blue galvanised.
Pins: steel, burnished.

Technical Notes

Ideal for either pressure (push) and tension (pull) applications, due to the unique designs spring loaded pin with threads at both ends to allow installation of your own adaptor or handle.

A wide range of application: pressure bolts, holding or magnets etc.

Requires very small space requirements.

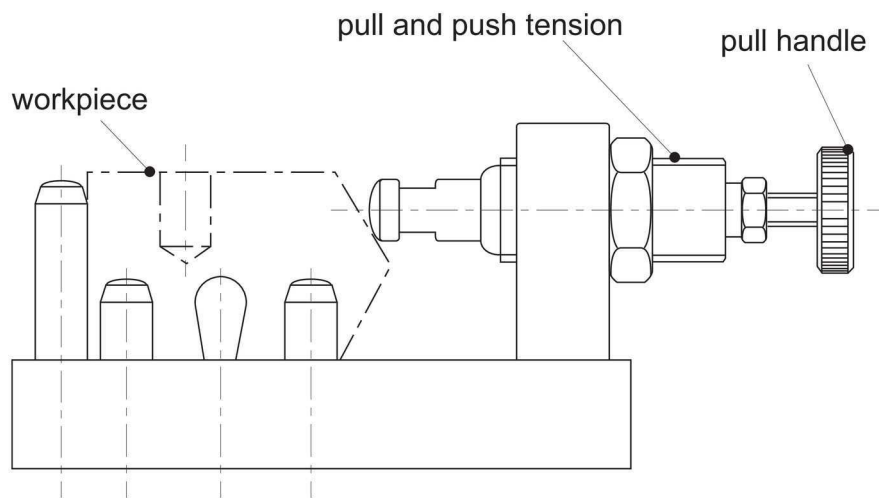


Index plungers - Push-Pull

non-locking



32790



Material

Body: steel, blue galvanised.
Pins: steel, burnished.

Technical Notes

Ideal for either pressure (push) and tension (pull) applications, due to the unique designs spring loaded pin with threads at both ends to allow installation of your own adaptor or handle.

A wide range of application: pressure bolts, holding or magnets etc.

Requires very small space requirements.

Index Plungers - Precision

cylindrical pin



32460

Order No.	Type	d_1	d_2	d_3	d_4	d_5	$l_{1 \text{ min.}}$	l_2	l_3	l_4	l_5	l_6	Sprin		
		-0,005 -0,01		d_3 n6									g load*	g load*	g
32460.W0010	Non Locking	10	19	16	25	M 6	10	2,5	31	13	25,0	-	15	30	79
32460.W0012	Non Locking	12	23	20	32	M 8	10	3,0	35	13	33,0	-	15	35	138
32460.W0016	Non Locking	16	28	25	40	M10	10	3,0	42	13	41,5	-	20	50	226
32460.W0020	Non Locking	20	33	30	40	M10	10	3,0	50	13	41,5	-	36	63	350
32460.W0025	Non Locking	25	42	38	50	M10	10	3,0	60	13	51,0	-	20	73	649
32460.W0060	Locking	10	19	16	25	M 6	10	2,5	31	13	25,0	36,5	15	30	79
32460.W0062	Locking	12	23	20	32	M 8	10	3,0	35	13	33,0	44,5	15	35	136
32460.W0066	Locking	16	28	25	40	M10	10	3,0	42	13	41,5	53,0	20	50	228
32460.W0070	Locking	20	33	30	40	M10	10	3,0	50	13	41,5	53,0	36	63	350
32460.W0075	Locking	25	42	38	50	M10	10	3,0	60	13	51,0	62,5	20	73	649
32460.W0090	Bush	10	19	16	-	-	11	8,5	-	-	-	-	-	-	11
32460.W0092	Bush	12	23	20	-	-	13	10,0	-	-	-	-	-	-	22
32460.W0093	Bush	16	28	25	-	-	17	14,0	-	-	-	-	-	-	40
32460.W0094	Bush	20	33	30	-	-	16	13,0	-	-	-	-	-	-	51
32460.W0096	Bush	25	42	38	-	-	19	16,0	-	-	-	-	-	-	99



Material

Pin, Body & Bush: case-hardened steel, blackened and ground.
Grip: thermoplastic, black.

Technical Notes

Supplied part assembled to enable precise setting, grip and body must be glued after mounting. Non removable once installed.

"Locking" type - enable pin to be held in retracted/non-projecting position; pull back grip, turn 90 to engage 'locking' on a notched catch.

"Non Locking" type - pin simply springs back when grip released.

Tips

When used for alignment of two sub-plates, the plunger's precise finish guarantees high repetition accuracy.

Spring loads * = statistical average.

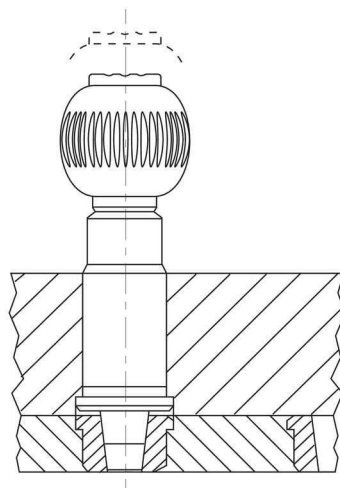
Index Plungers - Precision

tapered pin



32480

Order No.	Type	No m. dia.	d ₁	d ₂	d ₃ n6	d ₄	d ₅	l ₁ min.	l ₂	l ₃	l ₄	l ₅	l ₆	Spring load *	Spring load *	g
32480.W0110	Non Locking	10	10,00	19	16	25	M 6	6	2,5	31	13	25,0	-	19	29	78
32480.W0112	Non Locking	12	12,00	23	20	32	M 8	6	3,0	35	13	33,0	-	22	35	135
32480.W0116	Non Locking	16	16,00	28	25	40	M10	6	3,0	42	13	41,5	-	30	50	227
32480.W0120	Non Locking	20	20,00	33	30	40	M10	6	3,0	50	13	41,5	-	46	63	348
32480.W0125	Non Locking	25	25,00	42	38	50	M10	6	3,0	60	13	51,0	-	39	73	654
32480.W0160	Locking	10	10,00	19	16	25	M 6	6	2,5	31	13	25,0	32,5	19	29	78
32480.W0162	Locking	12	12,00	23	20	32	M 8	6	3,0	35	13	33,0	40,5	22	35	135
32480.W0166	Locking	16	16,00	28	25	40	M10	6	3,0	42	13	41,5	49,0	30	50	228
32480.W0170	Locking	20	20,00	33	30	40	M10	6	3,0	50	13	41,5	49,0	46	63	348
32480.W0175	Locking	25	25,00	42	38	50	M10	6	3,0	60	13	51,0	58,5	39	73	651
32480.W0190	Tapered Bush	10	7,10	19	16	-	-	11	8,5	-	-	-	-	-	-	13
32480.W0192	Tapered Bush	12	8,28	23	20	-	-	13	10,0	-	-	-	-	-	-	25
32480.W0193	Tapered Bush	16	11,52	28	25	-	-	17	14,0	-	-	-	-	-	-	47
32480.W0194	Tapered Bush	20	15,49	33	30	-	-	16	13,0	-	-	-	-	-	-	60
32480.W0196	Tapered Bush	25	19,70	42	38	-	-	19	16,0	-	-	-	-	-	-	114



Material

Pin, body & bush: case hardened steel, blackened and ground.
Grip: thermoplastic, black.

Technical Notes

Supplied part assembled to enable precise setting, grip and body must be glued after mounting. Non removable once installed.

"Locking" type - enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

"Non Locking" type - pin simply springs back when grip released.

Tips

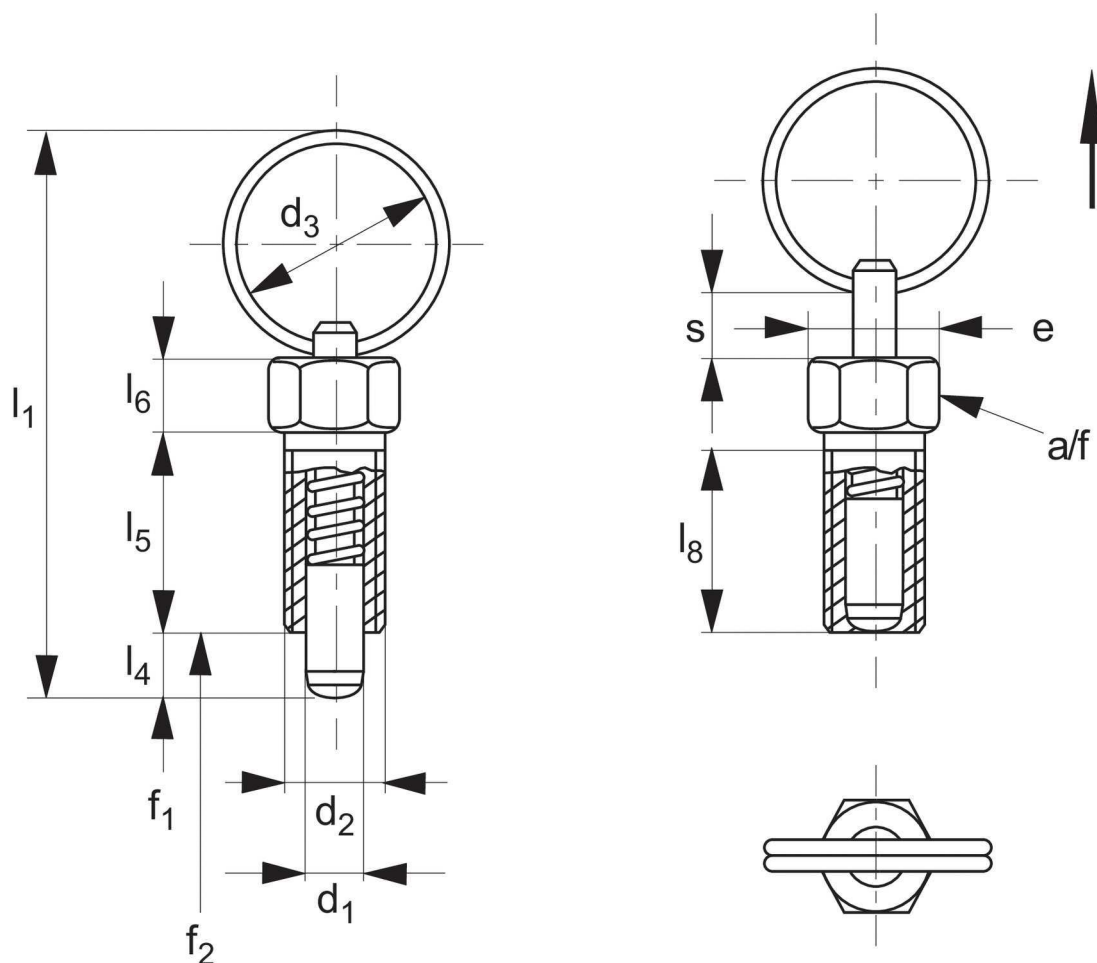
When used for alignment of two sub-plates, the plunger's precise finish on pin allows easier alignment of pin and bushing.
Spring loads * = statistical average.

Index Plungers - Pull Ring

non-locking - coarse thread



32550



Material

Body: free cutting steel, galvanized.
Pin: stainless steel 1.4305 (AISI 303).
Pull Ring: stainless steel 1.4310 (AISI 301).

Technical Notes

For applications where high precision is not required.

Coarse thread.

Temperature resistance up to 250°C

Tips

Spring loads * = statistical average

Order No.	Type	d ₁ h9	d ₂	d ₃	e	l ₁	l ₄ =s min	l ₅	l ₆	l ₈	a/f	Spr ing loa d* f ₁ N	Spr ing lo ad* f ₂ N	Tight enin g tor que max. Nm	g
32550.W0723	Non Locking	3	M 6x1,00	14	6,9	34,0	3,5	12	4,5	10,0	6	3	12	2	3,2
32550.W0724	Non Locking	4	M 6x1,00	14	6,9	34,5	4	12	4,5	10,0	6	3	12	2	3,6
32550.W0725	Non Locking	5	M 8x1,25	18	9,2	45,0	5	15	6,0	13,5	8	5	24	7	8,4
32550.W0726	Non Locking	6	M10x1,50	24	11,5	57,5	6	20	7,5	17,0	10	5	21	15	17,0
32550.W0728	Non Locking	8	M12x1,75	30	13,8	71,0	8	24	9,0	20,5	12	6	22	20	31,0
32550.W0704	Locknut	-	M 6x1,00	-	-	-	-	-	-	-	-	-	-	-	1,3
32550.W0705	Locknut	-	M 8x1,25	-	-	-	-	-	-	-	-	-	-	-	2,8
32550.W0706	Locknut	-	M10x1,5	-	-	-	-	-	-	-	-	-	-	-	5,3
32550.W0708	Locknut	-	M12x1,75	-	-	-	-	-	-	-	-	-	-	-	7,6

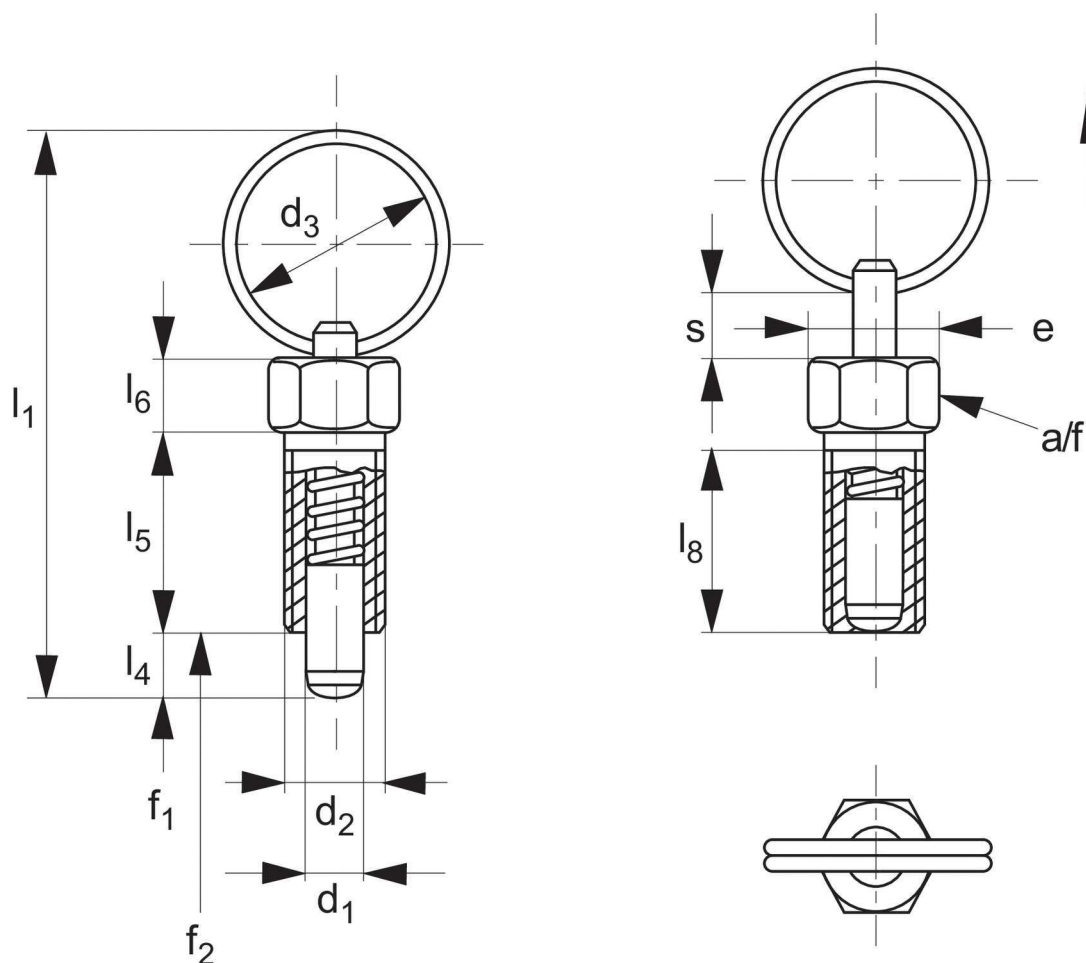


Index Plungers - Pull Ring

non-locking - coarse thread - stainless steel



32551



Material

Body: stainless steel 1.4305 (AISI 303).
Pin: stainless steel 1.4305 (AISI 303).
Pull ring: stainless steel 1.4310 (AISI 301).

Technical Notes

For applications where high precision is not required.

Coarse thread.

Temperature resistance up to 250°C

Tips

Spring loads * = statistical average.

Order No.

Type

d_1
h9

d_2

d_3

e

l_1

$l_4=s$
min

l_5

l_6

l_8

a/f

Spring
load
 d^*
 f_1
N

Spring
load
 d^*
 f_2
N

Tight
ening
torque
max.
Nm

$\triangle$
g

Order No.	Type	d_1 h9	d_2	d_3	e	l_1	$l_4=s$ min	l_5	l_6	l_8	a/f	Spring load d^* f_1 N	Spring load d^* f_2 N	Tight ening torque max. Nm	$\triangle$ g
32551.W0773	Non Locking	3	M 6x1,00	14	6,9	34,0	3,5	12	4,5	10,0	6	3	12	2	3,2
32551.W0774	Non Locking	4	M 6x1,00	14	6,9	34,5	4	12	4,5	10,0	6	3	12	2	3,6
32551.W0775	Non Locking	5	M 8x1,25	18	9,2	45,0	5	15	6,0	13,5	8	5	24	7	8,4
32551.W0776	Non Locking	6	M10x1,50	24	11,5	57,5	6	20	7,5	17,0	10	5	21	15	17,0
32551.W0778	Non Locking	8	M12x1,75	30	13,8	71,0	8	24	9,0	20,5	12	6	22	30	31,0
32550.W0714	Lock Nut	-	M 6x1,00	-	-	-	-	-	-	-	-	-	-	-	1,3
32550.W0715	Lock Nut	-	M 8x1,25	-	-	-	-	-	-	-	-	-	-	-	2,8
32550.W0716	Lock Nut	-	M10x1,50	-	-	-	-	-	-	-	-	-	-	-	5,3
32550.W0718	Lock Nut	-	M12x1,75	-	-	-	-	-	-	-	-	-	-	-	7,6

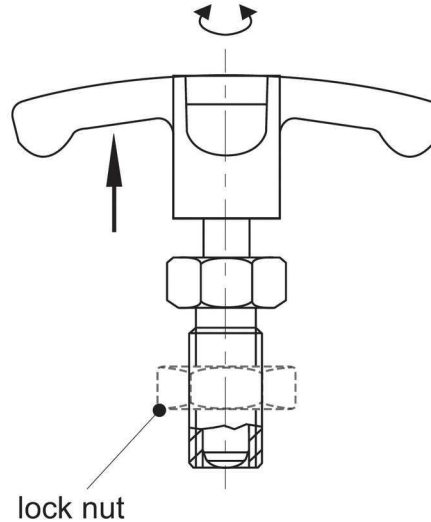
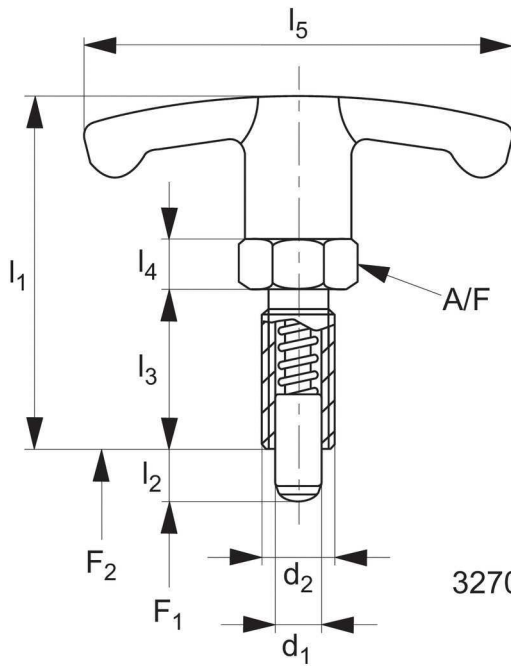


Index Plungers - T-handle Grip

compact - non locking



32502



lock nut
32700.W0116 - .W0120 (steel)
32700.W0516 - .W0520 (stainless steel)



Order No.	Type	Material	d ₁ -0,02 -0,04	l ₂	d ₂	l ₁	l ₃	l ₄	l ₅	A/F	Spring load F ₁ N _g *	g
32502.W0820	Non Locking	Steel	6	6	M12x1,5	48	22	6	54	14	6,5	31,0
32502.W0822	Non Locking	Steel	6	9	M12x1,5	48	22	6	54	14	6,0	32,0
32502.W0824	Non Locking	Steel	8	8	M16x1,5	59	26	8	59	17	8,5	64,0
32502.W0826	Non Locking	Steel	8	12	M16x1,5	59	26	8	59	17	8,5	65,0
32502.W0828	Non Locking	Steel	10	12	M16x1,5	59	26	8	59	17	9,5	66,0
32502.W0830	Non Locking	Steel	12	15	M20x1,5	68	33	10	59	22	11,5	120,0
32700.W0116	Lock Nuts	Steel	-	-	M12x1,5	-	-	-	-	-	-	7,4
32700.W0118	Lock Nuts	Steel	-	-	M16x1,5	-	-	-	-	-	-	18,0
32700.W0120	Lock Nuts	Steel	-	-	M20x1,5	-	-	-	-	-	-	32,0
32502.W0920	Non Locking	Stainless steel	6	6	M12x1,5	48	22	6	54	14	6,5	31,0
32502.W0922	Non Locking	Stainless steel	6	9	M12x1,5	48	22	6	54	14	6,0	32,0
32502.W0924	Non Locking	Stainless steel	8	8	M16x1,5	59	26	8	59	17	8,5	64,0
32502.W0926	Non Locking	Stainless steel	8	12	M16x1,5	59	26	8	59	17	8,5	65,0
32502.W0928	Non Locking	Stainless steel	10	12	M16x1,5	59	26	8	59	17	9,5	66,0
32502.W0930	Non Locking	Stainless steel	12	15	M20x1,5	68	33	10	59	22	11,5	120,0
32700.W0516	Lock Nuts	Stainless steel	-	-	M12x1,5	-	-	-	-	-	-	7,4
32700.W0518	Lock Nuts	Stainless steel	-	-	M16x1,5	-	-	-	-	-	-	18,0
32700.W0520	Lock Nuts	Stainless steel	-	-	M20x1,5	-	-	-	-	-	-	32,0

Material

Free cutting Steel Type-
Body: Free cutting steel, blackened.
Pin: Steel, hardened.
Grip: Thermoplastic PA6, black, dull.

Stainless Steel Type-
Body: Stainless steel 1.4305 (AISI 303).
Pin: Stainless steel 1.4305 (AISI 303), nickel plated.
Grip: Thermoplastic PA6, black, dull.

Technical Notes

T-handle grip makes for improved handling, especially when operator is using safety gloves etc.

Thread recess on body allows full engagement of thread length.
Hexagon collar improves leverage for secure installation.

"Non Locking" type- pin simply springs back when grip released.

Tips

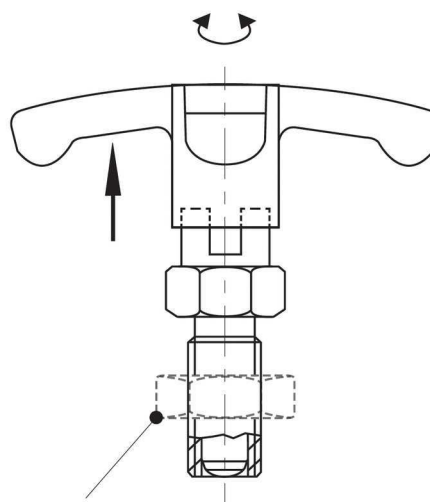
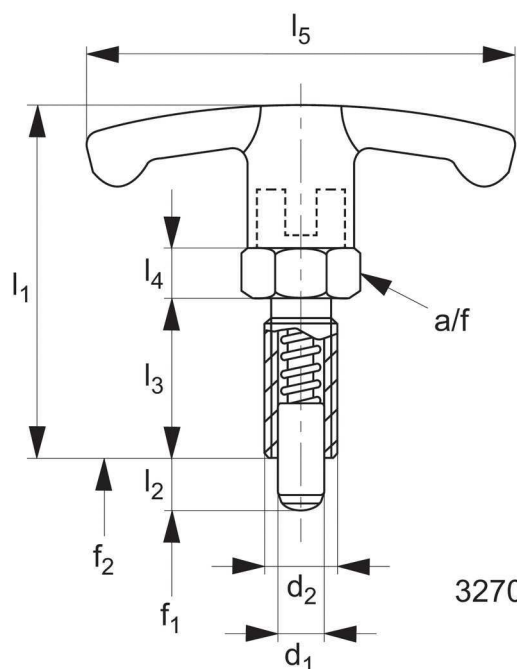
Distance collars no. 32750 can be used to adapt screw length.
Grip non-removable.
Spring loads* = statistical average.

Index Plungers - T-handle Grip

compact - locking



32504



lock nut

32700.W0116 - .W0120 (steel)
32700.W0516 - .W0516 (stainless steel)



Order No.
Steel

Order No.
Stainless Steel

Type

d₁

d₂

l₁

l₃

l₄

l₅

a/f

l₂

Spring
load
f₁
N*

Spring
load
f₂
N*

g

32504.W0832	32504.W0932	Locking	6	M12x1,5	48	22	6	54	14	6	6,5	19	33,0
32504.W0834	32504.W0934	Locking	6	M12x1,5	48	22	6	54	14	9	6,0	25	34,0
32504.W0836	32504.W0936	Locking	8	M16x1,5	59	26	8	59	17	8	8,5	26	68,0
32504.W0838	32504.W0938	Locking	8	M16x1,5	59	26	8	59	17	12	8,5	28	71,0
32504.W0840	32504.W0940	Locking	10	M16x1,5	59	26	8	59	17	12	9,5	38	72,0
32504.W0842	32504.W0942	Locking	12	M20x1,5	68	33	10	59	22	15	11,5	40	127,0
32700.W0116	32700.W0516	Locknuts	-	M12x1,5	-	-	-	-	-	-	-	-	7,4
32700.W0118	32700.W0518	Locknuts	-	M16x1,5	-	-	-	-	-	-	-	-	18,0
32700.W0120	32700.W0520	Locknuts	-	M20x1,5	-	-	-	-	-	-	-	-	32,0

Material

Free cutting Steel Type-

Body: free cutting steel, blackened.
Pin: steel, hardened.

Grip: thermoplastic PA6, black, dull.

Stainless Steel Type-

Body: stainless steel 1.4305 (AISI 303).

Pin: stainless steel 1.4305 (AISI 303), nickel plated.

Grip: thermoplastic PA6, black, dull.

Technical Notes

T-handle grip makes for improved handling, especially when operator is using safety gloves etc.

Thread recess on body allows full engagement of thread length.
Hexagon collar improves leverage for secure installation.

"Locking" type- enable pin to be held in retracted/non-projecting position; pull back grip, turn 90° to engage 'locking' on a notched catch.

Tips

Distance collars no. 32750 can be used to adapt screw length.

Grip non-removable.

Spring loads* = statistical average.



A wide selection of solutions

- Locating and positioning.
- Indexing.
- Securing.
- Positive locking.
- Rapid adjustment of all kinds of tables, platforms and fixtures.
- Machine and fixture design.
- OEM products.
- Sports equipment.
- Medical aides (wheelchairs etc.).
- Aerospace.
- Machine cabinets.

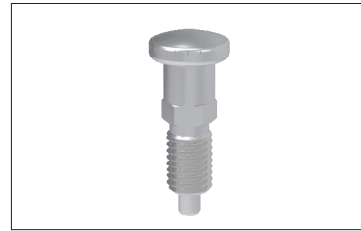
Applications



Steel with plastic grip



Stainless with plastic grip



Stainless body and grip

Materials



Locking (park)



Non locking (spring back)



Push pull

Locking or non locking



Standard grip



Lever grip



T-handle



Pull ring



Threaded for bespoke handle

Handling and actuation methods



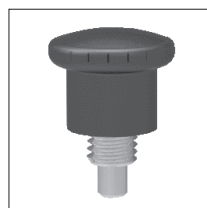
Fine threaded (standard)



Coarse thread



Flange mount



Thin wall mount



Weldable

Mounting options

- Unless otherwise stated, grips on index plungers are not removeable.
- Many of the pins on index plungers are toleranced to either the pin or the hole. Please refer to the specific product table.
- Index plungers are not recommended for shear load applications.

Pin Tol. Hole Tol.

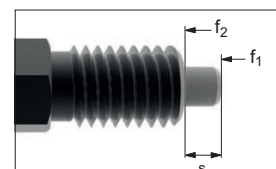
①	h_9	+0,03 +0,08
②	-0,02 -0,04	H_7

Additional technical notes

s Stroke, or movement of plunger's pin.

f₁ The force required in Newtons (N) to overcome the static strength of the spring and achieve initial movement of the plunger's pin.

f₂ The force required in Newtons (N) to fully compress the spring until the pin is fully depressed against the plunger's body.



Spring loads

Computing the strength of index plungers

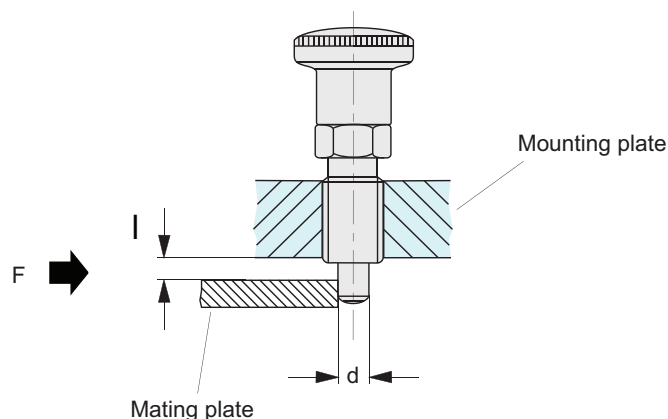
for shear loads / flexure loads of the plunger pin



Flexure loads

As soon as a gap l exists between the mounting plate in which the index plunger is installed, and the mating or base plate, the load must be considered to be as per a flexure load, with rod clamped at one side.

With this approach, the calculation is made against the bending of the index plunger.



Formulas for computation

Resistance torque

$$W = \frac{\pi \times d^3}{32}$$

Flexural stress

$$M_b = \sigma_b \times W$$

Flexural strength

$$F = \frac{M_b}{l} = \frac{\sigma_b \times \pi \times d^3}{l \times 32}$$

Material characteristics

The yield or substitute yield limit (R_e / $R_p 0,2$) shown in the table opposite has been determined in tension tests involving tension specimen in accordance with DIN 50125-B6-30.

These tests constitute the basis for the load bearing details given.

Material Description	Material no.	R_e in N/mm ² (≈ per. flexural tension σ_b)
C45Pb	1.0504	560
X 10 CrNiS 18 9A	ISI 303	580

Calculation example, load values

Example:

Index plungers with a bolt diameter of 5 mm made of steel with a yield limit of $R_e = 560$ N/mm², calculation against permanent deformation, the maximum permissible flexural strength is calculated as:

$$F_{per} = \frac{560 \text{ N/mm}^2 \times \pi \times (5\text{mm})^3}{2\text{mm} \times 32} = 3430 \text{ N}$$

d Bolt diameter	max. flexural strength F in N, acc. to material and gap l differentiated			
	C45Pb/1.0504 $l = 2$ mm	$l = 3$ mm	X 10 CrNiS 18 9/1.4305 $l = 2$ mm	$l = 3$ mm
3	740	490	760	510
4	1750	1170	1820	1210
5	3430	2290	3550	2370
6.5	930	3950	6140	4100
8	14070	9380	14570	9710
10	27480	18320	28470	18980
12	47490	31660	49190	32790
16	90070	102940	93290	119020

Safety information

On principle, the design also needs an adequate safety coefficient to be taken into account. The usual safety coefficients under static load 1.2 to 1.5; pulsating 1.8 to 2.4 and alternating 3 to 4.

Disclaimer:

You should carry out your own test series to verify whether a certain product is suitable for your specific applications.

Computing the strength of index plungers

for shear loads / flexure loads of the plunger pin



Shear loads

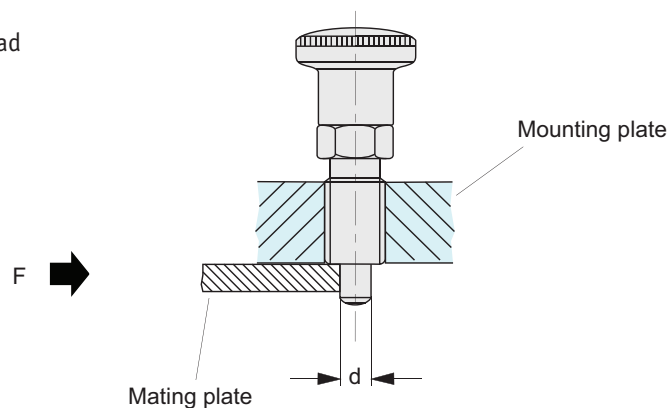
Providing only a very small gap exists between the mounting plate in which the index plunger is installed, and the mounting plate or base plate, the load can be calculated as a clean shear action.

As this is normally not the case, the "flexure" load should be used - see following page.

Approximately 80 % of the bolt's tensile strength is assumed for the shear strength. This approach calculates against the tensile strength R_m , i.e. against the index pin shearing off.

To ensure the permanent and proper function of the index plunger, the yield limit R_e must be considered in place of the tensile strength R_m .

Stop using the index plunger if the pin is damaged or deformed.



Formulas for computation

Bolt cross-section	Limit tension	Shear force
$S = \frac{d^2 \times \pi}{4}$	$\tau_a = 0,8 \times R_m$	$F = S \times \tau_a = \frac{d^2 \times \pi}{4} \times 0,8 \times R_m$

Material characteristics

The tensile strength shown in the table opposite (R_m) and the yield or substitute yield limit (R_e / $R_p 0,2$) have been determine in tension tests involving tension specimen in accordance with DIN 50125- B6-30

These tests constitute the basis for the load bearing details given.

Material Description	Material no.	R_e in N/mm ²	R_m in N/mm ²
C45Pb	1.0504	560	640
X 10 CrNiS 18 9A	ISI 303	580	740

Calculation example, load values

Example:

Index plungers with a bolt diameter of 6 mm made of Stainless Steel with a yield limit of $R_e = 580$ N/mm², calculation against permanent deformation, the maximum permissible shear stress is calculated as:

$$F_{per} = \frac{(6 \text{ mm})^2 \times \pi}{4} \times 0.8 \times 580 \text{ N/mm}^2 = 13120 \text{ N}$$

d Bolt diameter	max. force F in N, acc. to material and strength value differs			
	C45Pb/1.05045		X 10 CrNiS 18 9/1.4305	
	at R_e	at R_m	at R_e	at R_m
3	3160	3610	3270	4180
4	5620	6430	5830	7430
5	790	10050	9110	11620
6	12660	14470	13120	16730
8	22510	25730	23320	29750
10	35180	40210	36440	46490
12	50660	57900	52470	66950
16	90070	102940	93290	119020

Safety information

On principle, the design also needs an adequate safety coefficient to be taken into account. The usual safety coefficients under static load 1.2 to 1.5; pulsating 1.8 to 2.4 and alternating 3 to 4.

Disclaimer:

You should carry out your own test series to verify whether a certain product is suitable for your specific applications.