

ART. W184

STEEL WASHER

MATERIAL:

Steel with property class 5.8.

SURFACE:

Turned surface.

STANDARD COLOUR:

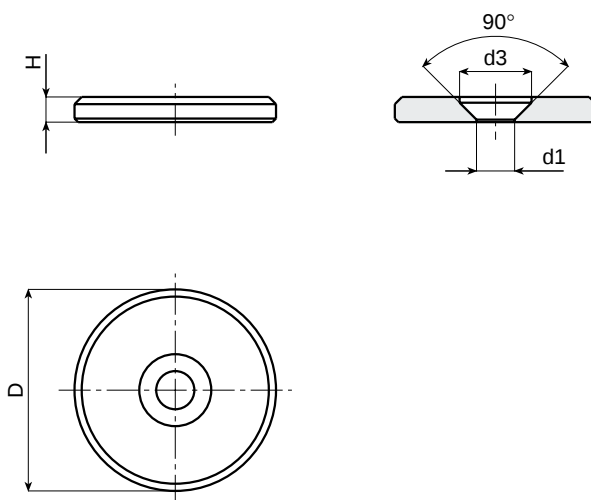
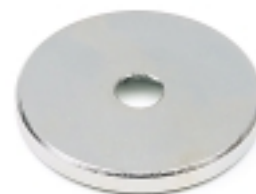
Z - Galvanised (surface treatment)

HOLE:

Smooth right through hole in the steel with tolerance class of H9.

SPECIAL REQUESTS:

- None.



Art.	D	H	d3	d1	Weight (g)
W184-16 per M4 "HBZ"	16	3	8	4,5 per M4	
W184-20 per M4 "HBZ"	20	3	8	4,5 per M4	
W184-22 per M5 "HBZ"	22	3,5	10	5,5 per M4	
W184-25 per M5 "HBZ"	25	3,5	10	5,5 per M4	
W184-28 per M5 "HBZ"	28	3,5	10	5,5 per M4	
W184-32 per M6 "HBZ"	32	4	12	6,5 per M4	
W184-36 per M6 "HBZ"	36	4	12	6,5 per M4	
W184-40 per M6 "HBZ"	40	5	12	6,5 per M4	

ALUMINIUM CONTROL WHEEL WITH SMOOTH HOLE

MATERIAL:

Die cast aluminium.

SURFACE:

Satin finish surface, except for the low roughness turned areas (T).

COLOUR:

H - Nickel-plated (surface treatment).

V - Painted black (RAL 9011).

A - Natural grey anodization.

To be specified with the order.

CENTRE CAP:

H - Nickel plated: black ABS cap (Ral 9011).

V - Painted black: grey ABS cap (Ral 7035).

A - Anodization: grey ABS cap (Ral 7035).

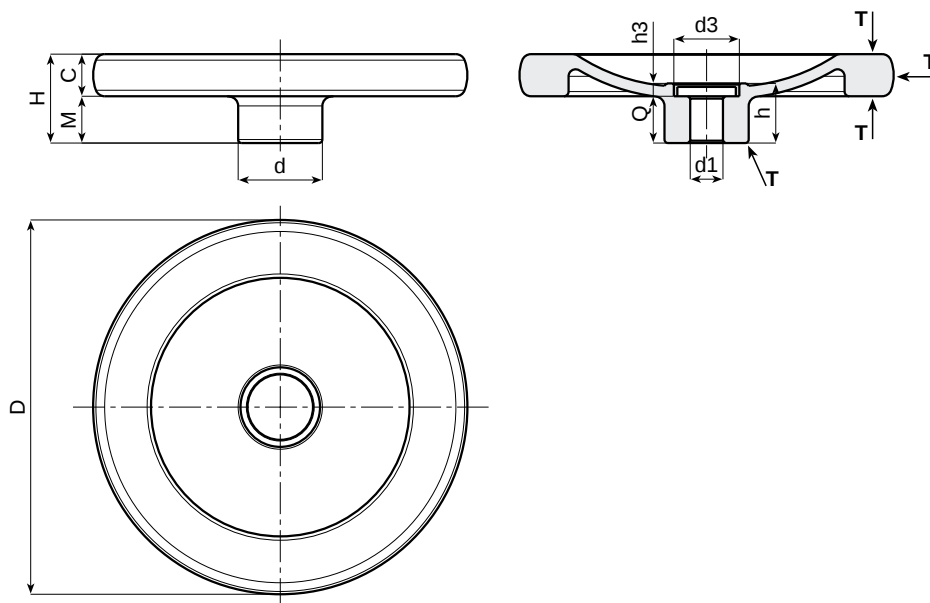
HOLE:

Smooth through hole, remachined with tolerance class of H7.

For fixing systems please refer to the technical notes attached to the catalogue.

SPECIAL REQUESTS:

- It is possible to supply the handwheels with customised hole d1, on request and for quantities.



Ver. V



Ver. H

Art.	d	D	H	m	c	h	h3	d3	d1 H7	Q	Weight (g)
W296-80 D08 "HVA"	26	80	26	14	12	21	5,5	20	D08	15,5	
W296-100 D10 "HVA"	28	100	28	14	14	21,5	5,5	20	D10	16	
W296-130 D12 "HVA"	36	130	35	19	16	25,5	5,5	28	D12	20	
W296-160D14 "HVA"	36	160	38	20	18	25,5	5,5	28	D12	20	
W296-200 D16 "HVA"	42	200	44	24	20	31,5	6	34	D16	25,5	

ALUMINIUM CONTROL WHEEL WITH SMOOTH HOLE AND REVOLVING HANDLE

MATERIAL:

Die cast aluminium.

SURFACE:

Satin finish surface, except for the low roughness turned areas (T).

COLOUR:

H - Nickel-plated (surface treatment).

V - Painted black (RAL 9011).

A - Natural grey anodization.

To be specified with the order.

CENTRE CAP:

H - Nickel plated: black ABS cap (Ral 9011).

V - Painted black: grey ABS cap (Ral 7035).

A - Anodization: grey ABS cap (Ral 7035).

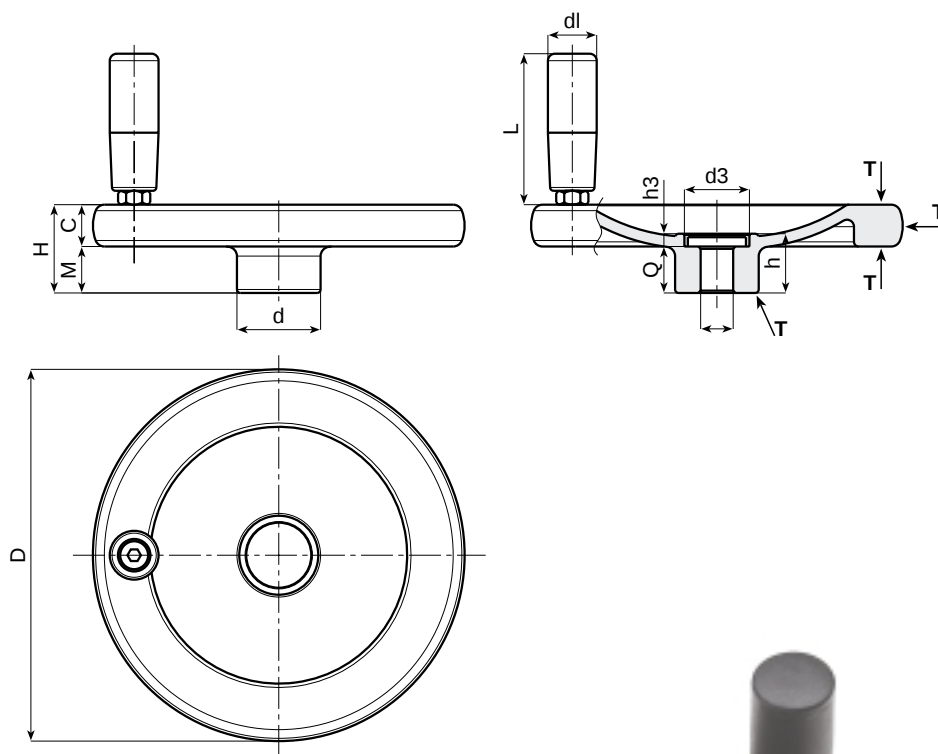
SIDE HANDLE:

Revolving handle Art. M129 (see chapter M page 9).

HOLE:

Smooth through hole, remachined with tolerance class of H7.

For fixing systems please refer to the technical notes attached to the catalogue.



Ver. A

SPECIAL REQUESTS:

- It is possible to supply the handwheels with customised hole d1, on request and for quantities.

Art.	d	D	H	m	c	h	h3	d3	d1 H7	Q	dl	L	Weight (g)
W297-80 D08 "HVA"	26	80	26	14	12	21	5,5	20	D08	15,5	20	52	
W297-100 D10 "HVA"	28	100	28	14	14	21,5	5,5	20	D10	16	20	52	
W297-130 D12 "HVA"	36	130	35	19	16	25,5	5,5	28	D12	20	23	62	
W297-160 D14 "HVA"	36	160	38	20	18	25,5	5,5	28	D12	20	25	72	
W297-200 D16 "HVA"	42	200	44	24	20	31,5	6	34	D16	25,5	25	81	

ALUMINIUM CONTROL WHEEL WITH SMOOTH HOLE AND REVOLVING, FOLDING HANDLE

MATERIAL:

Die cast aluminium.

SURFACE:

Satin finish surface, except for the low roughness turned areas (T).

COLOUR:

H - Nickel-plated (surface treatment).

V - Painted black (RAL 9011).

A - Natural grey anodization.

To be specified with the order.

CENTRE CAP:

H - Nickel plated: black ABS cap (Ral 9011).

V - Painted black: grey ABS cap (Ral 7035).

A - Anodization: grey ABS cap (Ral 7035).

SIDE HANDLE:

Revolving handle and folding Art. M136 (see chapter M on page 10).

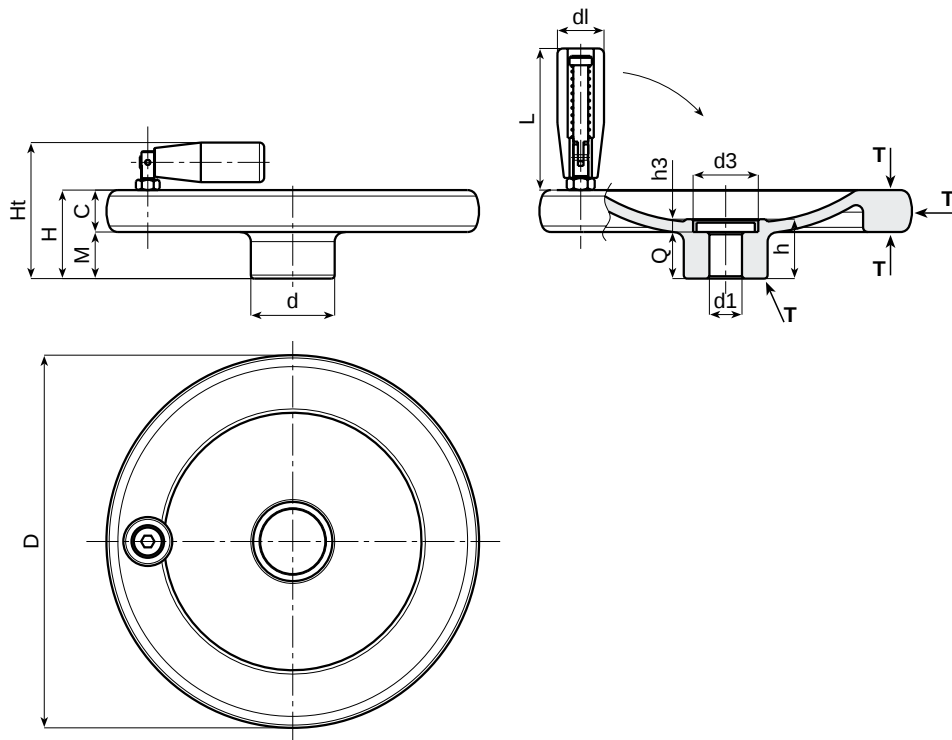
HOLE:

Smooth through hole, remachined with tolerance class of H7.

For fixing systems please refer to the technical notes attached to the catalogue.

SPECIAL REQUESTS:

- It is possible to supply the handwheels with customised hole d1, on request and for quantities.



Ver. H

Art.	d	D	H	Ht	m	c	h	h3	d3	d1 H7	Q	dl	L	Weight (g)
W298-80 D08 "HVA"	26	80	26	50	14	12	21	5,5	20	D08	15,5	20	56	
W298-100 D10 "HVA"	28	100	28	52	14	14	21,5	5,5	20	D10	16	20	56	
W298-130 D12 "HVA"	36	130	35	65	19	16	25,5	5,5	28	D12	20	25	76	
W298-160 D14 "HVA"	36	160	38	68	20	18	25,5	5,5	28	D12	20	25	76	
W298-200 D16 "HVA"	42	200	44	79	24	20	31,5	6	34	D16	25,5	26	89	

KNURLED METAL HANDWHEEL WITH THREADED STUD

MATERIAL:

Steel with property class 5.8.

SURFACE:

Low roughness turned surface.

STANDARD COLOUR:

H - Nickel-plated (surface treatment).

ALTERNATIVO COLOUR ON REQUEST:

Z - Galvanised (surface treatment).

D - Dacromet® (surface treatment).

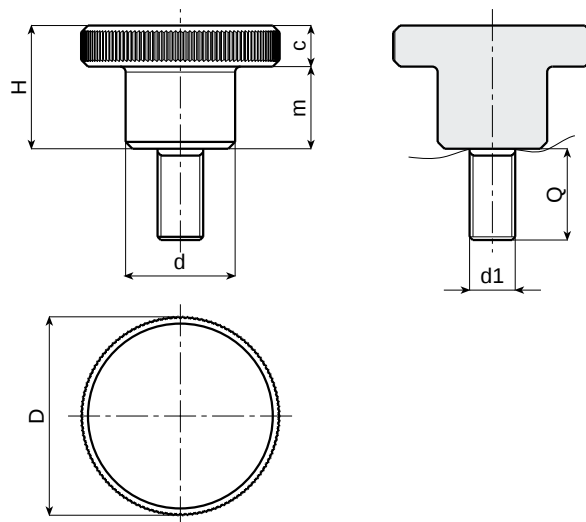
To be specified with the order.

STUD:

Threaded stud in the steel
with tolerance class of 6G.

SPECIAL REQUESTS:

- It is possible to supply the stud with different lengths, on request and for quantities.



Art.	d	D	H	m	c	d1	Q	Weight (g)
W464-11 M3 "HZD"	6	11	8	5	3	M3	10-16	
W464-15 M4 "HZD"	8	15	10	6	4	M4	10-16-20-25	
W464-19 M5 "HZD"	10	19	12	8	4	M5	10-16-20-25-30	
W464-23 M6 "HZD"	12	23	15	10	5	M6	16-20-25-30-35	
W464-29 M8 "HZD"	16	29	18	12	6	M8	16-20-25-30-40	
W464-35 M10 "HZD"	20	35	23	15	8	M10	20-25-30-35-40	

KNURLED METAL HANDWHEEL WITH THREADED HOLE

MATERIAL:

Steel with property class 5.8.

SURFACE:

Low roughness turned surface.

STANDARD COLOUR:

H - Nickel-plated (surface treatment).

ALTERNATIVE COLOUR ON REQUEST:

B - Black -oxide (surface treatment)

Z - Galvanised (surface treatment)

D - Dacromet® (surface treatment)

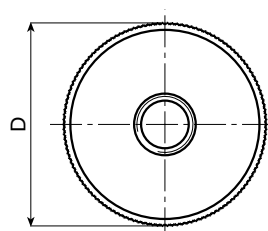
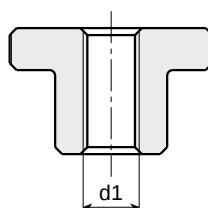
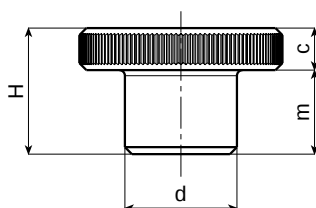
To be specified with the order.

HOLE:

Threaded through hole in the steel with tolerance class of 6H.

SPECIAL REQUESTS:

- It is possible to supply the handwheels with customised hole d1, on request and for quantities.



Art.	d	D	H	m	c	d1	Weight (g)
W466-11 M3 "HBZD"	6	11	8	5	3	M3	
W466-15 M4 "HBZD"	8	15	10	6	4	M4	
W466-19 M5 "HBZD"	10	19	12	8	4	M5	
W466-23 M6 "HBZD"	12	23	15	10	5	M6	
W466-29 M8 "HBZD"	16	29	18	12	6	M8	
W466-35 M10 "HBZD"	20	35	23	15	8	M10	
W466-39 M12 "HBZD"	22	39	25	15	10	M12	

KNURLED METAL HANDWHEEL WITH SHORT HUB AND THREADED HOLE

MATERIAL:

Steel with property class 5.8.

SURFACE:

Low roughness turned surface.

STANDARD COLOUR:

H - Nickel-plated (surface treatment).

ALTERNATIVE COLOUR ON REQUEST:

B - Black -oxide (surface treatment).

Z - Galvanised (surface treatment).

D - Dacromet® (surface treatment).

To be specified with the order.

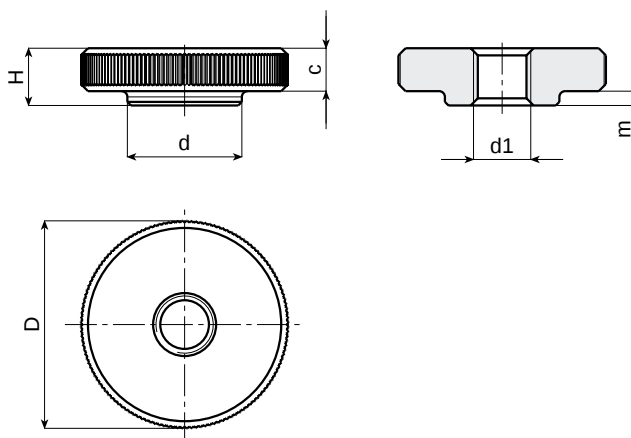
HOLE:

Threaded through hole in the steel
with tolerance class of 6H.



SPECIAL REQUESTS:

- It is possible to supply the handwheels with customised hole d1, on request and for quantities.



Art.	d	D	H	m	c	d1	Weight (g)
W467-11 M3 "HBZD"	6	11	3	-	3	M3	
W467-15 M4 "HBZD"	8	15	4	-	4	M4	
W467-19 M5 "HBZD"	10	19	5	1	4	M5	
W467-23 M6 "HBZD"	12	23	6	1	5	M6	
W467-29 M8 "HBZD"	16	29	8	2	6	M8	
W467-35 M10 "HBZD"	20	35	10	2	8	M10	
W467-39 M12 "HBZD"	22	39	12	2	10	M12	

ART. W500 - W502 CIN

FIXED METAL LEVER WITH STAINLESS STEEL INCLINED HANDLE

INOX

MATERIAL:

Stainless steel (AISI 303).

SURFACE:

Low roughness turned surface.

COLOUR:

Natural.

HANDGRIP:

Short handle I500, reinforced polyamide, black RAL 9011 (see Chap. I page 14).

HANDGRIP FASTENING:

Push-fit. Removable.

HOLE:

VERSION W500 CIN:

Female threaded hole with tolerance class of 6H.

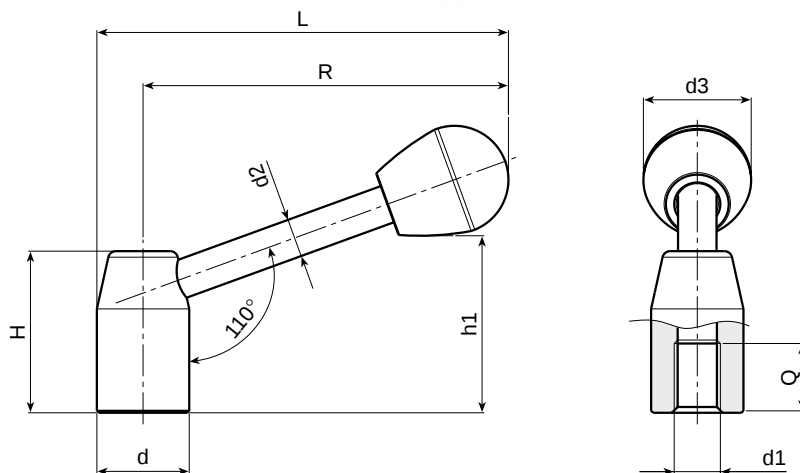
VERSION W502 CIN:

Smooth blind hole with tolerance class of H7.

For fixing systems please refer to the technical notes attached to the catalogue.

SPECIAL REQUESTS:

- It is possible to supply the levers with customised hole d1, on request and for quantities.
- It is possible to supply the handgrip with colours as shown in the table at page 19, on request and for quantities.



Version W500 CIN with female threaded hole

Art.	d	R	L	H	Ht	h1	d2	d3	d1	Q	Weight (g)
W500-80 CIN M10	22	80	91	38	64	42	8	22	M10	15	120
W500-95 CIN M12	24	95	107	42	75	46	10	28	M12	18	170
W500-110 CIN M12	28	110	124	48	84	55	12	28	M12	18	290
W500-125 CIN M16	32	125	141	52	94	61	12	32	M16	23	350

Version W502 CIN with smooth blind hole

Art.	d	R	L	H	Ht	h1	d2	d3	d1 H7	Q	Weight (g)
W502-80 CIN D10	22	80	91	38	64	42	8	22	10	15	119
W502-95 CIN D12	24	95	107	42	75	46	10	28	12	18	168
W502-110 CIN D12	28	110	124	48	84	55	12	28	12	18	287
W502-125 CIN D16	32	125	141	52	94	61	12	32	16	23	350

ART. W500 – W502

FIXED METAL LEVER WITH INCLINED HANDLE

MATERIAL:

Steel with property class 5.8.

SURFACE:

Low roughness turned surface.

STANDARD COLOUR:

H - Nickel-plated (surface treatment).

ALTERNATIVE COLOUR ON REQUEST:

B - Black -oxide (surface treatment).

Z - Galvanised (surface treatment).

D - Dacromet® (surface treatment).

To be specified with the order.

HANDGRIP:

Short handle I500, reinforced polyamide, black RAL 9011 (see Chap. I page 14).

HANDGRIP FASTENING:

Push-fit. Removable.

HOLE:

VERSION W500:

Female threaded hole with tolerance class of 6g.

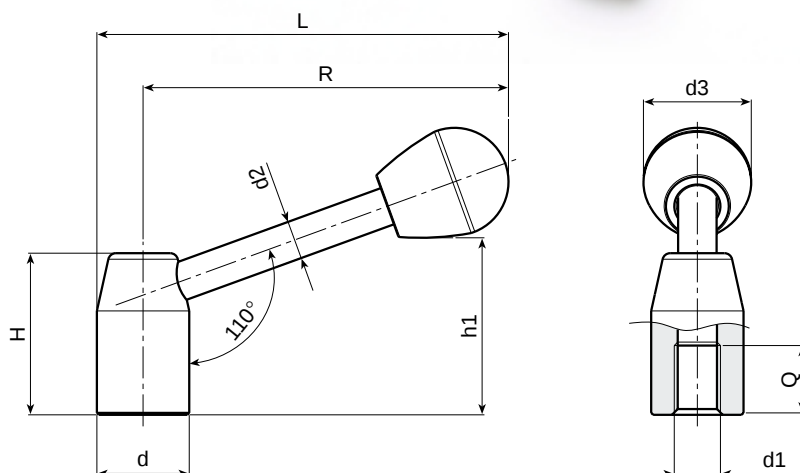
VERSION W502:

Smooth blind hole with tolerance class of H7.

For fixing systems please refer to the technical notes attached to the catalogue.

SPECIAL REQUESTS:

- It is possible to supply the levers with customised hole d1, on request and for quantities.
- It is possible to supply the handgrip with colours as shown in the table at page 19, on request and for quantities.



Version W500 with female threaded hole

Art.	d	R	L	H	Ht	h1	d2	d3	d1	Q	Weight (g)
W500-70 M08 "HBZD"	20	70	80	34	57	35	8	22	M8	15	89
W500-80 M10 "HBZD"	22	80	91	38	64	42	8	22	M10	15	111
W500-95 M12 "HBZD"	24	95	107	42	75	46	10	28	M12	18	160
W500-110 M12 "HBZD"	28	110	124	48	84	55	12	28	M12	18	280
W500-125 M16 "HBZD"	32	125	141	52	94	61	12	32	M16	23	340
W500-140 M16 "HBZD"	36	140	158	58	103	71	14	32	M16	24	513
W500-150 M20 "HBZD"	40	150	170	64	113	75	16	37	M20	27	687
W500-170 M20 "HBZD"	45	170	192,5	70	125	86	16	37	M20	30	890

Version W502 with smooth blind hole

Art.	d	R	L	H	Ht	h1	d2	d3	d1 H7	Q	Weight (g)
W502-70 D08 "HBZD"	20	70	80	34	57	35	8	22	08	15	84
W502-80 D10 "HBZD"	22	80	91	38	64	42	8	22	10	15	109
W502-95 D12 "HBZD"	24	95	107	42	75	46	10	28	12	18	160
W502-110 D12 "HBZD"	28	110	124	48	84	55	12	28	12	18	278
W502-125 D16 "HBZD"	32	125	141	52	94	61	12	32	16	23	340
W502-140 D16 "HBZD"	36	140	158	58	103	71	14	32	16	24	500
W502-150 D20 "HBZD"	40	150	170	64	113	75	16	37	20	27	670
W502-170 D20 "HBZD"	45	170	192,5	70	125	86	16	37	20	30	870

FIXED METAL LEVER WITH HORIZONTAL HANDLE

MATERIAL:

Steel with property class 5.8.

SURFACE:

Low roughness turned surface.

STANDARD COLOUR:

H - Nickel-plated (surface treatment).

ALTERNATIVE COLOUR ON REQUEST:

B - Black -oxide (surface treatment).

Z - Galvanised (surface treatment).

D - Dacromet® (surface treatment).

To be specified with the order.

HANDGRIP:

Ball grip I104 reinforced polyamide, black RAL 9011 (see Chap. I page 3).

HANDGRIP FASTENING:

Push-fit. Removable.

HOLE:

VERSION W501:

Female threaded hole with tolerance class of 6H.

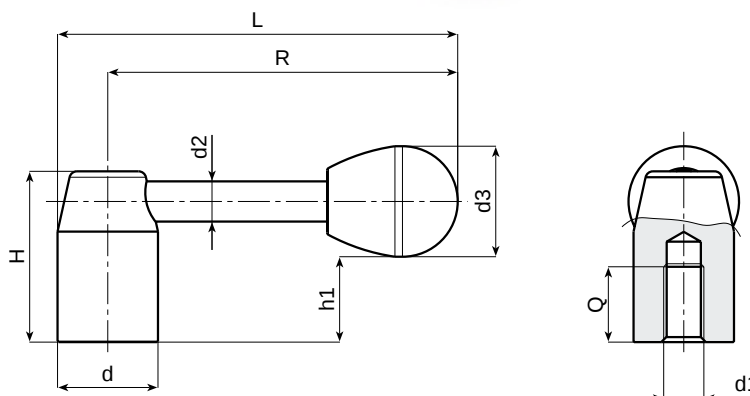
VERSION W503:

Smooth blind hole with tolerance class of H7.

For fixing systems please refer to the technical notes attached to the catalogue.

SPECIAL REQUESTS:

- It is possible to supply the levers with customised hole d1, on request and for quantities.
- It is possible to supply the handgrip with colours as shown in the table at page 19, on request and for quantities.



Version W501 with female threaded hole

Art.	d	R	L	H	Ht	h1	d2	d3	d1	Q	Weight (g)
W501-70 M08 "HBZD"	20	70	80	34	57	17	8	22	M8	17	89
W501-80 M10 "HBZD"	22	80	91	38	64	20	8	22	M10	19	111
W501-95 M12 "HBZD"	24	95	107	42	75	21	10	28	M12	21	160
W501-110 M12 "HBZD"	28	110	124	48	84	25	12	28	M12	23	280
W501-125 M16 "HBZD"	32	125	141	52	94	27	12	32	M16	25	340
W501-140 M16 "HBZD"	36	141	159	58	103	31	14	32	M16	27	513
W501-150 M20 "HBZD"	40	150	170	64	113	34	16	37	M20	29	687

Version W503 with smooth blind hole

Art.	d	R	L	H	Ht	h1	d2	d3	d1 H7	Q	Weight (g)
W503-70 D08 "HBZD"	20	70	80	34	57	17	8	22	08	17	84
W503-80 D10 "HBZD"	22	80	91	38	64	20	8	22	10	19	109
W503-95 D12 "HBZD"	24	95	107	42	75	21	10	28	12	21	160
W503-110 D12 "HBZD"	28	110	124	48	84	25	12	28	12	23	278
W503-125 D16 "HBZD"	32	125	141	52	94	27	12	32	16	25	340
W503-140 D16 "HBZD"	36	141	159	58	103	31	14	32	16	27	500
W503-150 D20 "HBZD"	40	150	170	64	113	34	16	37	20	29	670

CYLINDRICAL FIXED METAL LEVER WITH INCLINED HANDLE AND SMOOTH HOLE

MATERIAL:

Steel with property class 5.8.

SURFACE:

Low roughness turned surface.

STANDARD COLOUR:

H - Nickel-plated (surface treatment).

ALTERNATIVE COLOUR ON REQUEST:

B - Black -oxide (surface treatment).

Z - Galvanised (surface treatment).

D - Dacromet® (surface treatment).

To be specified with the order.

HANDGRIP:

Ball grip I104 reinforced polyamide, black RAL 9011 (see Chap. I page 3).

HANDGRIP FASTENING:

Push-fit. Removable.

HOLE:

Smooth right through hole in the steel with tolerance class of H7.

CENTRE CAP:

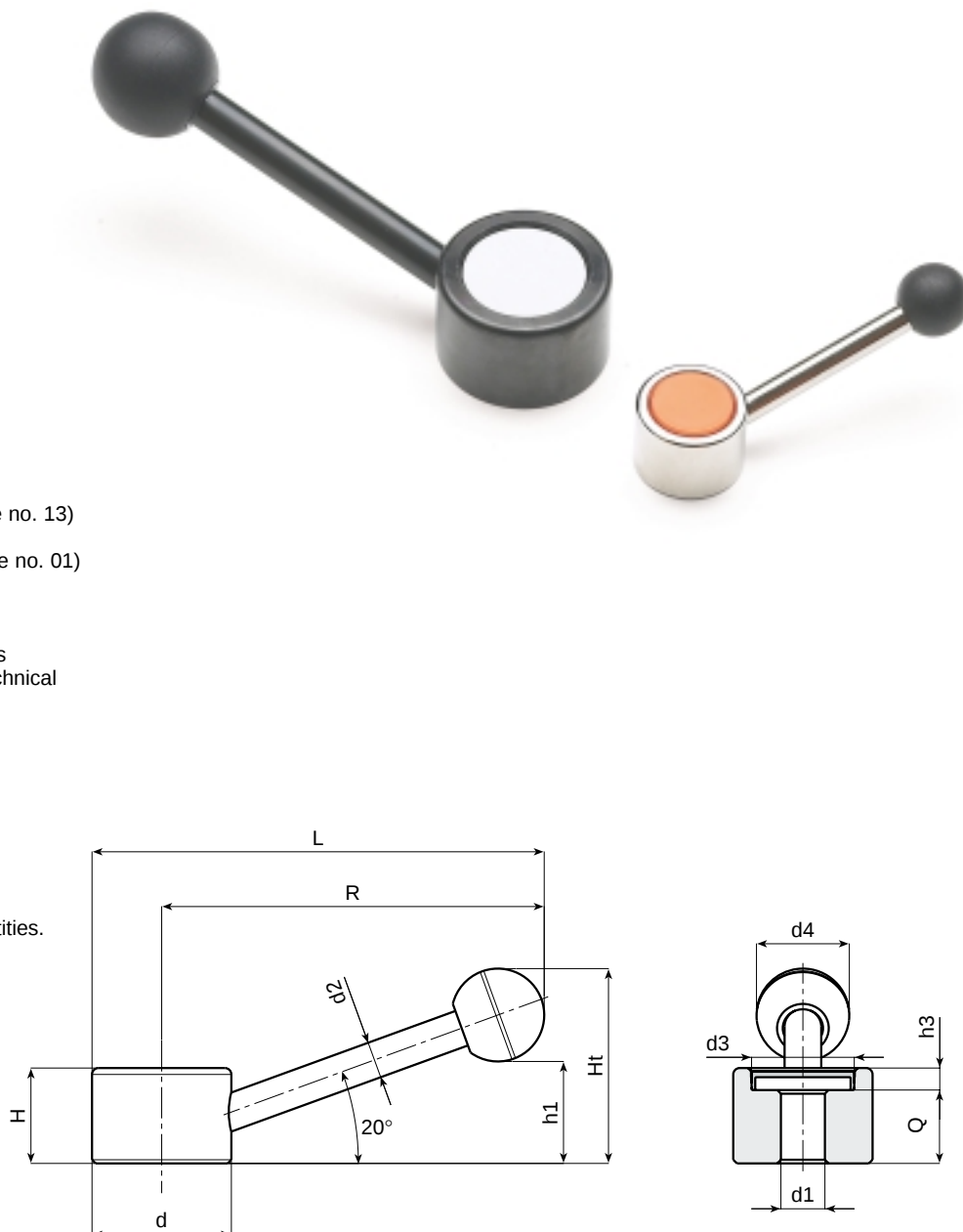
ABS centre cap, grey (RAL 7035 Code no. 13) for black-oxide lever version.

ABS centre cap, black (RAL 9011 Code no. 01) for all other versions.

For fixing systems, or execution of tabs or square holes, please refer to the technical notes attached to the catalogue.

SPECIAL REQUESTS:

- It is possible to supply the levers with customised hole d1, on request and for quantities.
- It is possible to supply the handgrip with colours as shown in the table at page 19, on request and for quantities.



Art.	d	R	L	H	Ht	h1	h3	d2	d3	d4	d1	Q	Weight (g)
W510-82 D10 "HBZD"	30	82	97	22	43	24	6	8	22	20	D10	16	118
W510-104 D10 "HBZD"	38	104	123	26	53	28	6	10	28	25	D10	20	235
W510-104 D12 "HBZD"	38	104	123	26	53	28	6	10	28	25	D12	20	230
W510-128 D14 "HBZD"	48	128	152	30	66	32	6	12	34	35	D14	24	434
W510-128 D16 "HBZD"	48	128	141	30	66	32	6	12	34	35	D16	24	427

CYLINDRICAL STAINLESS STEEL FIXED LEVER WITH INCLINED HANDLE AND SMOOTH HOLE

MATERIAL:

Stainless steel (AISI 303).

SURFACE:

Low roughness turned surface.

COLOUR:

Natural.

HANDGRIP:

Ball grip I104 reinforced polyamide, black RAL 9011 (see Chap. I page 3).

HANDGRIP FASTENING:

Push-fit. Removable.

HOLE:

Smooth right through hole in the steel with tolerance class of H7.

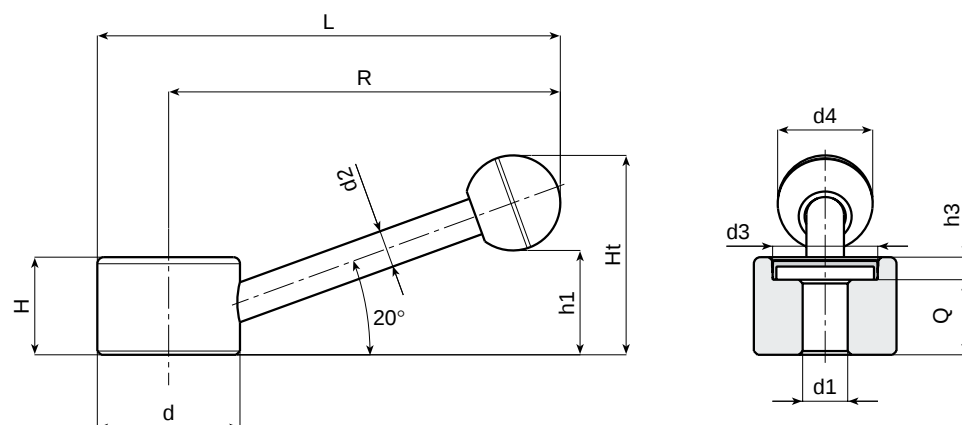
CENTRE CAP:

ABS centre cap, black (RAL 9011 Code no. 01).

For fixing systems, or execution of tabs or square holes, please refer to the technical notes attached to the catalogue.

SPECIAL REQUESTS:

- It is possible to supply the levers with customised hole d1, on request and for quantities.
- It is possible to supply the handgrip with colours as shown in the table at page 19, on request and for quantities.



Art.	d	R	L	H	Ht	h1	h3	d2	d3	d4	d1	Q	Weight (g)
W510-82 D10 CIN	30	82	97	22	43		6	8	22	20	D10	16	118
W510-104 D10 CIN	38	104	123	26	53		6	10	28	25	D10	20	235
W510-128 D14 CIN	48	128	152	30	66		6	12	34	35	D14	24	434

T LEVER WITH MOVABLE HANDLE AND THREADED HOLE

MATERIAL:

Steel with property class 5.8.

SURFACE:

Low roughness turned surface.

COLOUR:

B - Black -oxide (surface treatment)

INSERTS:

- (1) Half-moon shaped ring for black-oxide treated harmonic steel shafts (UNI 7434 type H).
- (2) Galvanised steel spring.
- (3) 7/32 galvanised steel ball

HANDLE:

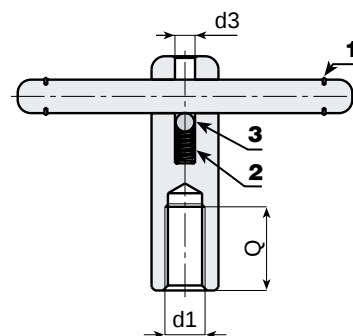
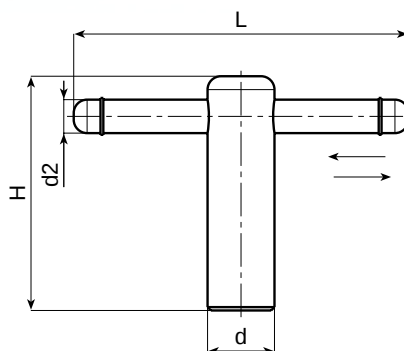
Movable handle locked at stroke end by O-rings.

HOLE:

Female threaded hole made in the steel with tolerance class of 6H.

SPECIAL REQUESTS:

- It is possible to supply the levers with customised hole d1, on request and for quantities.
- It is possible to supply the levers with different surface treatments, on request and for quantities.



Art.	d	L	H	d2	d3	d1	Q	Weight (g)
W700-85 M10	18	82	62	8	6	M10	25	
W700-105 M12	20	82	72	10	6	M12	30	
W700-125 M16	24	82	87	12	6	M16	40	
W700-145 M20	30	82	97	16	6	M20	45	

T LEVER WITH FIXED HANDLE AND THREADED HOLE

MATERIAL:

Steel with property class 5.8.

SURFACE:

Low roughness turned surface.

COLOUR:

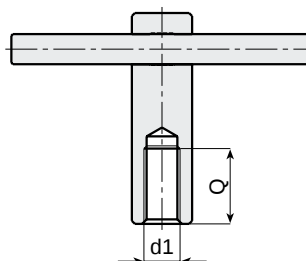
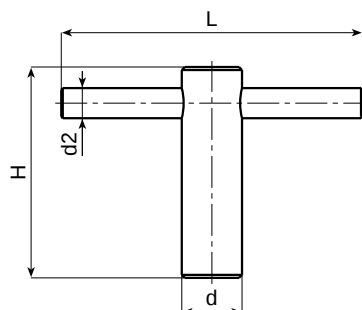
B - Black -oxide (surface treatment)

HANDLE FASTENING METHOD:

Push-fit. Cannot be moved or removed.

SPECIAL REQUESTS:

- It is possible to supply the levers with customised hole d1, on request and for quantities.
- It is possible to supply the levers with different surface treatments, on request and for quantities.



Art.	d	L	H	d2	d1	Q	Weight (g)
W701-85 M10	18	82	62	8	M10	25	
W701-105 M12	20	82	72	10	M12	30	
W701-125 M16	24	82	87	12	M16	40	
W701-145 M20	30	82	97	16	M20	45	

SERIE W800

KNOB STYLE – BLACK OXIDE TREATED AND STAINLESS STEEL – INDEXING PLUNGER WITH OR WITHOUT LOCK NUT



Art. W800 CIN

W800 Version Knob-style black oxide treated indexing plunger

Art.	D	H	h	h1	d2	d	e	s	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W800-5	22	45	17	15	M10x1	12	12	5	05	5	18
W800-6	27	54	20	18	M12x1,5	14	14	6	06	6	31
W800-8	33	68	26	24	M16x1,5	19	19	8	08	8	71
W800-10	33	79	33	31	M20x1,5	19	22	10	10	10	123

W801 Version Knob-style black oxide treated indexing plunger with lock nut

Art.	D	H	h	h1	d2	d	e	s	e2	s2	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W801-5	22	45	17	15	M10x1	12	12	5	17	6	05	5	25
W801-6	27	54	20	18	M12x1,5	14	14	6	19	7	06	6	41
W801-8	33	68	26	24	M16x1,5	19	19	8	24	8	08	8	89
W801-10	33	79	33	31	M20x1,5	19	22	10	30	9	10	10	153

W800 CIN Version Knob-style stainless steel indexing plunger

Art.	D	H	h	h1	d2	d	e	s	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W800-5 CIN	22	45	17	15	M10x1	12	12	5	05	5	18
W800-6 CIN	27	54	20	18	M12x1,5	14	14	6	06	6	31
W800-8 CIN	33	68	26	24	M16x1,5	19	19	8	08	8	71
W800-10 CIN	33	79	33	31	M20x1,5	19	22	10	10	10	123

W801 CIN Version Knob-style stainless steel indexing plunger with lock nut

Art.	D	H	h	h1	d2	d	e	s	e2	s2	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W801-5 CIN	22	45	17	15	M10x1	12	12	5	17	6	05	5	25
W801-6 CIN	27	54	20	18	M12x1,5	14	14	6	19	7	06	6	41
W801-8 CIN	33	68	26	24	M16x1,5	19	19	8	24	8	08	8	89
W801-10 CIN	33	79	33	31	M20x1,5	19	22	10	30	9	10	10	153

VERSIONS:

- W800** Knob-style black oxide treated indexing plunger.
W801 Knob-style black oxide treated indexing plunger with lock nut.
W800 CIN Knob-style stainless steel indexing plunger.
W801 CIN Knob-style stainless steel indexing plunger with lock nut.

MATERIAL:

(4) Reinforced polyamide scallop knob. Fixed.

VERSIONS W800 AND W801

- (3) Zinc plated steel spring.
 (2) High-resistance steel threaded hexagon ring nut.
 (1) Hardened high resistance steel plunger pin.
 (5) Threaded steel lock nut (UNI 5589).

VERSIONS W800 CIN E W801 CIN

- (3) Stainless steel spring (AISI 303).
 (2) Stainless steel threaded hexagon ring nut. (AISI 303).
 (1) Stainless steel plunger pin (AISI 303).
 (5) Threaded stainless steel lock nut (AISI 304) (UNI 5589).

ATTENTION: The manufacturer recommends making the hole for the plunger pin with a tolerance of H7.

ATTENTION: Nut supplied assembled (for version W801 and W801 CIN).

SURFACES:

(4) Black satin finish (RAL 9011).

VERSIONS W800 AND W801

(1,2,5) Black-oxide finish.

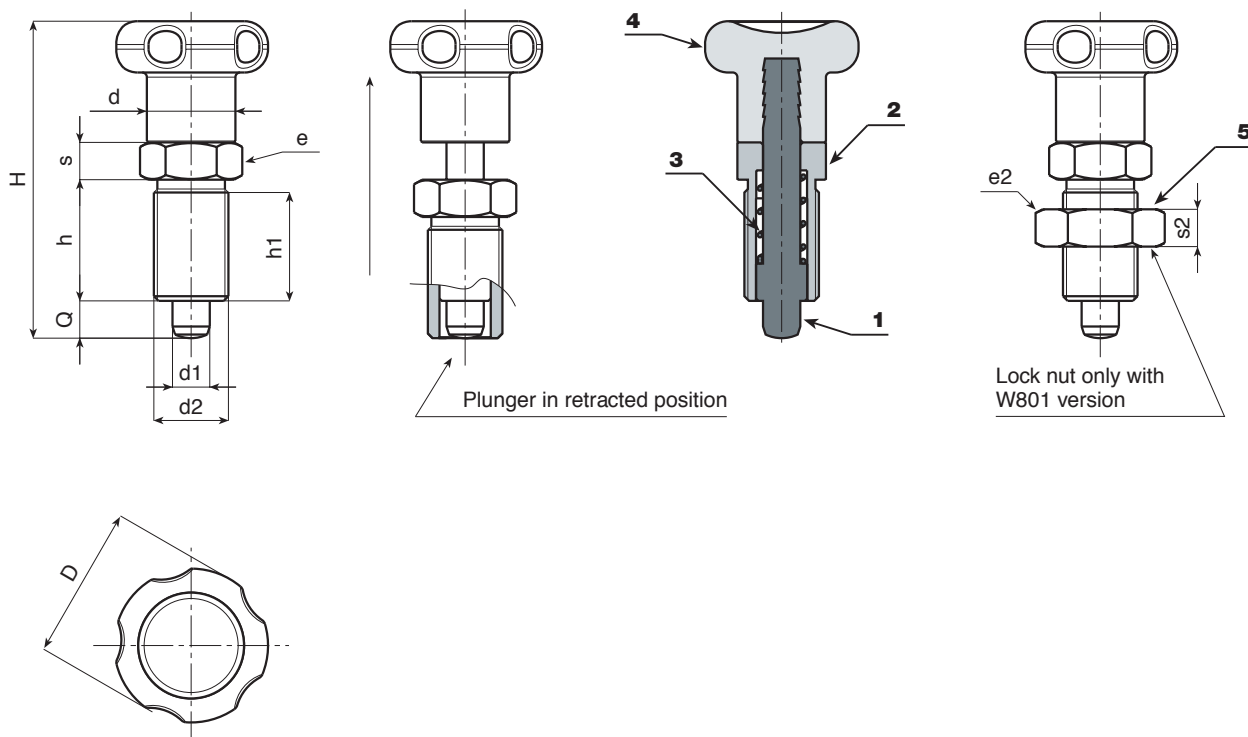
VERSIONS W800 CIN AND W801 CIN

(1,2,5) Natural.

Packs containing 10 pieces.

SPECIAL REQUESTS:

- On request and for special quantities the knob is available in a choice of colours as indicated in the table on page 23.
- On request the nut can be supplied separate.



SERIE W802

BLACK OXIDE TREATED AND STAINLESS STEEL THREADED PLUNGER WITH OR WITHOUT LOCK NUT



Art. W802 CIN

W802 Version Black oxide treated indexing plunger

Art.	H	h	h1	d2	d3	h3	e	s	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W802-5	33	17	15	M10x1	M04	6	12	5	05	5	13
W802-6	42	20	18	M12x1,5	M05	10	14	6	06	6	22
W802-8	54	26	24	M16x1,5	M08	12	19	8	08	8	54
W802-10	65	33	31	M20x1,5	M10	12	22	10	10	10	104

W803 Version Black oxide treated indexing plunger with lock nut

Art.	H	h	h1	d2	d3	h3	e	s	e2	s2	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W803-5	33	17	15	M10x1	M04	6	12	5	17	6	05	5	20
W803-6	42	20	18	M12x1,5	M05	10	14	6	19	7	06	6	32
W803-8	54	26	24	M16x1,5	M08	12	19	8	24	8	08	8	62
W803-10	65	33	31	M20x1,5	M10	12	22	10	30	9	10	10	134

W802 CIN Version Stainless steel indexing plunger

Art.	H	h	h1	d2	d3	h3	e	s	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W802-5 CIN	33	17	15	M10x1	M04	6	12	5	05	5	13
W802-6 CIN	42	20	18	M12x1,5	M05	10	14	6	06	6	22
W802-8 CIN	54	26	24	M16x1,5	M08	12	19	8	08	8	54
W802-10 CIN	65	33	31	M20x1,5	M10	12	22	10	10	10	104

W803 CIN Version Stainless steel indexing plunger with lock nut

Art.	H	h	h1	d2	d3	h3	e	s	e2	s2	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W803-5 CIN	33	17	15	M10x1	M04	6	12	5	17	6	05	5	20
W803-6 CIN	42	20	18	M12x1,5	M05	10	14	6	19	7	06	6	32
W803-8 CIN	54	26	24	M16x1,5	M08	12	19	8	24	8	08	8	62
W803-10 CIN	65	33	31	M20x1,5	M10	12	22	10	30	9	10	10	134



BOTECA
METAL LINE

VERSIONS:

- W802** Black-oxide treated indexing plunger.
W803 Black-oxide treated indexing plunger with lock nut.
W802 CIN Stainless steel treated indexing plunger.
W803 CIN Stainless steel treated indexing plunger with lock nut.

MATERIAL:

VERSIONS W802 AND W803

- (3) Zinc plated steel spring.
(2) High-resistance steel threaded hexagon ring nut.
(1) Hardened high resistance steel plunger pin.
(4) Threaded steel lock nut (UNI 5589).

VERSIONS W802 CIN AND W803 CIN

- (3) Stainless steel spring (AISI 303).
(2) Stainless steel threaded hexagon ring nut. (AISI 303).
(1) Stainless steel plunger pin (AISI 303).
(4) Threaded stainless steel lock nut (AISI 304) (UNI 5589).

ATTENTION: The manufacturer recommends making the hole for the plunger pin with a tolerance of H7.

ATTENTION: Nut supplied assembled (for version W803 and W803 CIN).

SURFACES:

VERSIONS W802 AND W803

(1,2,4) Black-oxide finish.

VERSIONS W802 CIN AND W803 CIN

(1,2,4) Natural.

Packs containing 10 pieces.

SPECIAL REQUESTS:

- On request the nut can be supplied separate.

N.B.: THIS VERSION OF PLUNGER CAN BE COMBINED WITH ANY HANDWHEEL WITH THREADED INSERT ORDER SEPARATELY (see photos below)



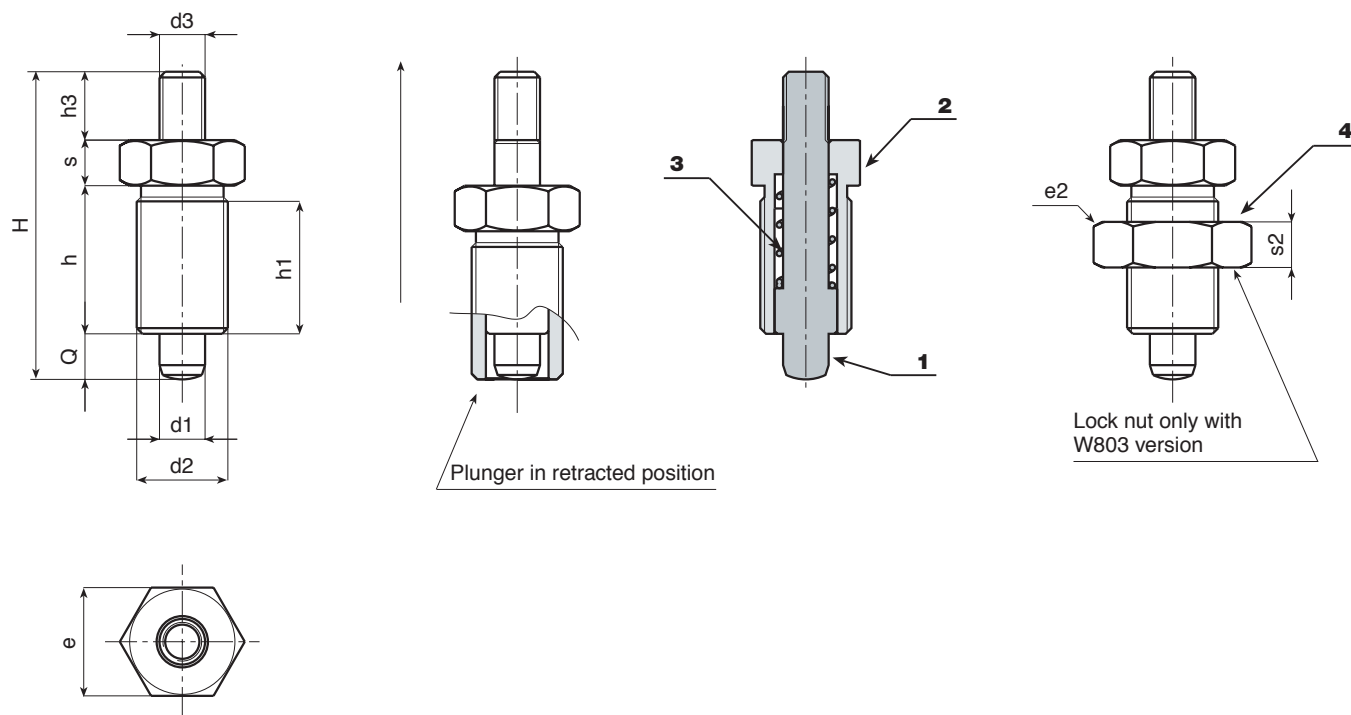
Art. W802 + H767



Art. W802 + F186



Art. W803 + G730



ART. W804 – W805

KNOB STYLE BLACK OXIDE TREATED INDEXING PLUNGER WITHOUT RING NUT – WITH OR WITHOUT LOCK NUT



W804 Version Knob-style black oxide treated indexing plunger without ring nut

Art.	D	H	h	d2	d	d1 ^{-0.02} _{-0.04}	Q	Weight (gr)	WRENCH
W804-5	22	45	22	M10x1	12	05	5	16	W807-5
W804-6	27	54	26	M12x1,5	14	06	6	28	W807-6
W804-8	33	68	34	M16x1,5	19	08	8	64	W807-8
W804-10	33	79	43	M20x1,5	19	10	10	113	W807-10

W805 Version Knob-style black oxide treated indexing plunger without ring nut with lock nut

Art.	D	H	h	d2	d	e2	s2	d1 ^{-0.02} _{-0.04}	Q	Weight (gr)	WRENCH
W805-5	22	45	22	M10x1	12	17	6	05	5	23	W807-5
W805-6	27	54	26	M12x1,5	14	19	7	06	6	38	W807-6
W805-8	33	68	34	M16x1,5	19	24	8	08	8	82	W807-8
W805-10	33	79	43	M20x1,5	19	30	9	10	10	133	W807-10

MATERIAL:

(4) Reinforced polyamide scallop knob. Fixed.

INSERTS:

(3) Zinc plated steel spring.

(2) Threaded steel body with wrench slot.

(1) Hardened high resistance steel plunger pin.

(5) Threaded steel lock nut (UNI 5589).

The knob-style indexing plunger can be screwed into place by hand. On request, to facilitate assembly, a special zinc plated locking wrench be supplied.

ATTENTION: The manufacturer recommends making the hole for the plunger pin with a tolerance of H7.

SURFACES:

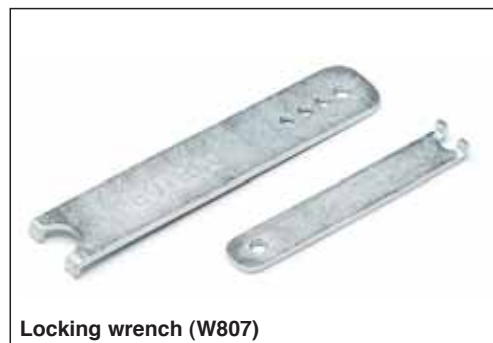
(4) Black satin finish (RAL 9011).

(1,2,5) Black-oxide finish.

Packs containing 10 pieces.

SPECIAL REQUESTS:

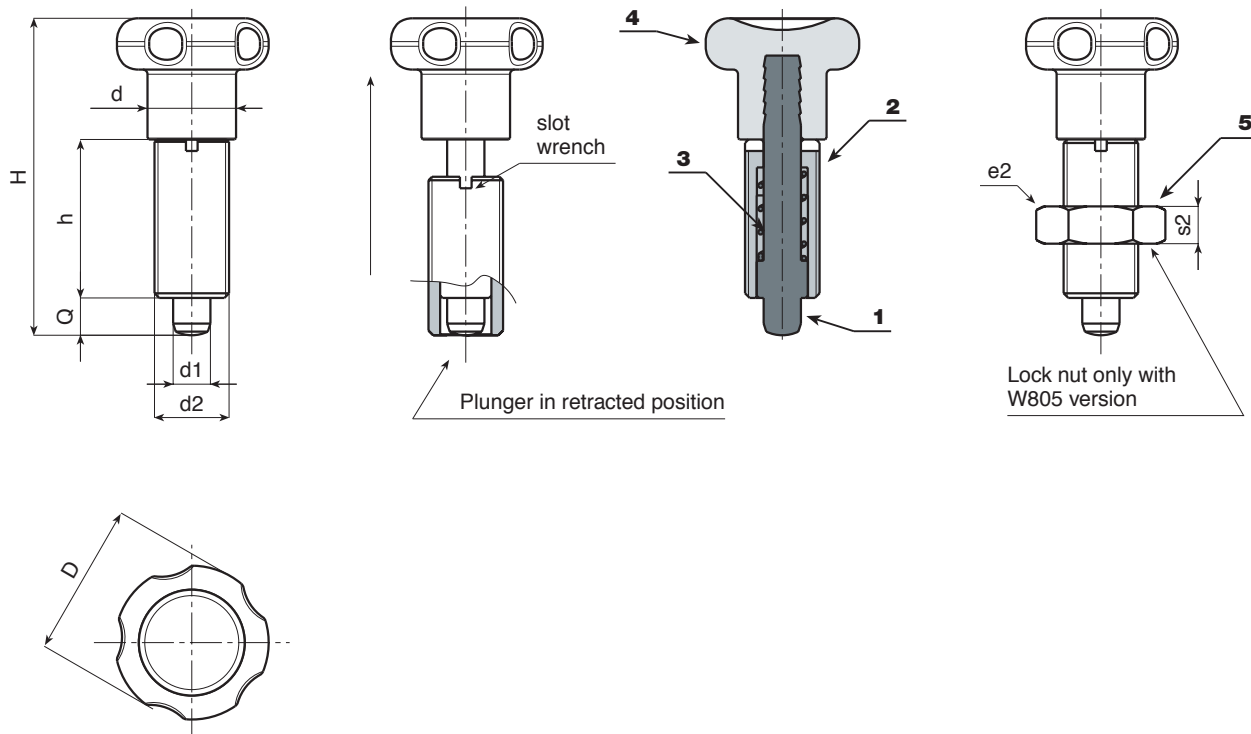
- On request and for special quantities the knob is available in a choice of colours as indicated in the table on page 23.
- On request a locking wrench can be supplied.



Locking wrench (W807)



Art. W805 + wrench



WELDABLE BLACK OXIDE TREATED STEEL KNOB STYLE INDEXING PLUNGER WITH UNTHREADED PIN

MATERIAL:

(4) Reinforced polyamide scallop knob. Fixed.

INSERTS:

(3) Zinc plated steel spring.

(2) Bored unthreaded, welding quality steel body.

(1) Hardened high resistance steel plunger pin.

ATTENTION: The manufacturer recommends making the hole for the plunger pin with a tolerance of H7.

SURFACE:

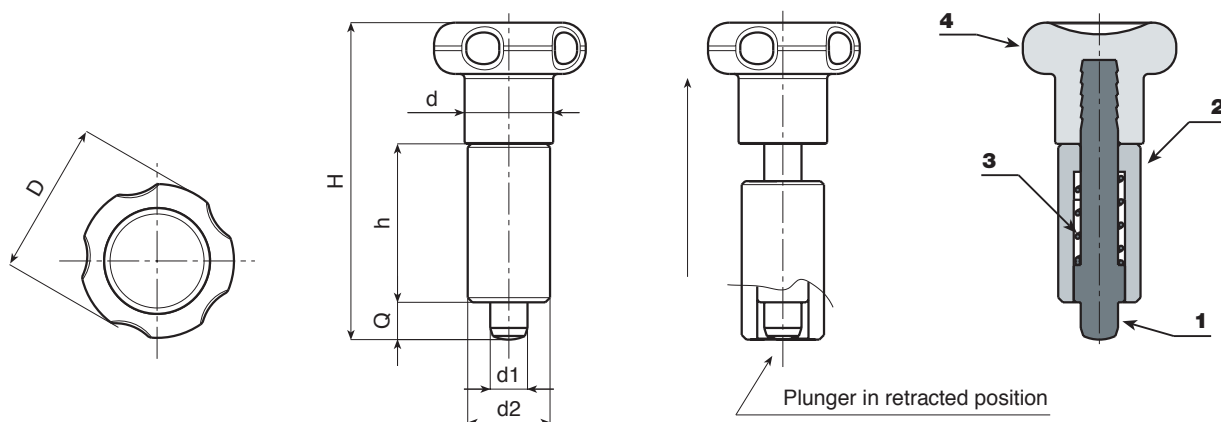
(4) Black satin finish (RAL 9011).

(1,2) Black-oxide finish.

Packs containing 10 pieces.

SPECIAL REQUESTS:

- On request and for special quantities the knob is available in a choice of colours as indicated in the table on page 23.



Art.	D	H	h	d2	d	d1 ^{-0.02} _{-0.04}	Q	Weight (gr)
W806-5	22	45	22	12	12	05	5	23
W806-6	27	54	26	14	14	06	6	40
W806-8	33	68	34	18	19	08	8	84

SERIE W810

KNOB STYLE – BLACK OXIDE TREATED AND STAINLESS STEEL – INDEXING PLUNGER WITH HANDWHEEL LOCKING SYSTEM, WITH OR WITHOUT LOCK NUT



Art. W810 CIN

W810 Version Knob-style black oxide treated indexing plunger with handwheel locking system

Art.	D	H	h	h1	h3	d3	d2	d	e	s	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W810-5	22	51,5	17	15	6,5	11,8	M10x1	12	12	5	05	5	22
W810-6	27	61,5	20	18	7,5	13,8	M12x1,5	14	14	6	06	6	37
W810-8	33	77,5	26	24	9,5	18,8	M16x1,5	19	19	8	08	8	87
W810-10	33	90,5	33	31	11,5	18,8	M20x1,5	19	22	10	10	10	142

W811 Version Knob-style black oxide treated indexing plunger with handwheel locking system and lock nut

Art.	D	H	h	h1	h3	d3	d2	d	e	s	e2	s2	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W811-5	22	51,5	17	15	6,5	11,8	M10x1	12	12	5	17	6	05	5	29
W811-6	27	61,5	20	18	7,5	13,8	M12x1,5	14	14	6	19	7	06	6	47
W811-8	33	77,5	26	24	9,5	18,8	M16x1,5	19	19	8	24	8	08	8	105
W811-10	33	90,5	33	31	11,5	18,8	M20x1,5	19	22	10	30	9	10	10	172

W810 CIN Version Knob-style stainless steel indexing plunger with handwheel locking system

Art.	D	H	h	h1	h3	d3	d2	d	e	s	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W810-5 CIN	22	51,5	17	15	6,5	11,8	M10x1	12	12	5	05	5	22
W810-6 CIN	27	61,5	20	18	7,5	13,8	M12x1,5	14	14	6	06	6	37
W810-8 CIN	33	77,5	26	24	9,5	18,8	M16x1,5	19	19	8	08	8	87
W810-10 CIN	33	90,5	33	31	11,5	18,8	M20x1,5	19	22	10	10	10	142

W811 CIN Version Knob-style stainless steel indexing plunger with handwheel locking system and lock nut

Art.	D	H	h	h1	h3	d3	d2	d	e	s	e2	s2	d1 ^{-0,02 -0,04}	Q	Weight (gr)
W811-5 CIN	22	51,5	17	15	6,5	11,8	M10x1	12	12	5	17	6	05	5	29
W811-6 CIN	27	61,5	20	18	7,5	13,8	M12x1,5	14	14	6	19	7	06	6	47
W811-8 CIN	33	77,5	26	24	9,5	18,8	M16x1,5	19	19	8	24	8	08	8	105
W811-10 CIN	33	90,5	33	31	11,5	18,8	M20x1,5	19	22	10	30	9	10	10	172



VERSIONS:

- W810** Knob-style black oxide treated indexing plunger with handwheel locking system.
W811 Knob-style black oxide treated indexing plunger with handwheel locking system and lock nut.
W810 CIN Knob-style stainless steel indexing plunger with handwheel locking system.
W811 CIN Knob-style stainless steel indexing plunger with handwheel locking system and lock nut.

MATERIAL:

(4) Reinforced polyamide scallop knob. Fixed.

VERSIONS W810 AND W811

- (3) Zinc plated steel spring.
 (2) High-resistance steel threaded hexagon ring nut.
 (1) Hardened high resistance steel plunger pin.
 (5) Threaded steel lock nut (UNI 5589).

VERSIONS W810 CIN AND W811 CIN

- (3) Stainless steel spring (AISI 303).
 (2) Stainless steel threaded hexagon ring nut. (AISI 303).
 (1) Stainless steel plunger pin (AISI 303).
 (5) Threaded stainless steel lock nut (AISI 304) (UNI 5589).

ATTENTION: The manufacturer recommends making the hole for the plunger pin with a tolerance of H7.

ATTENTION: Nut supplied assembled (for version W811 and W811 CIN).

SURFACES:

(4) Black satin finish (RAL 9011).

VERSIONS W810 AND W811

(1,2,5) Black-oxide finish.

VERSIONS W810 CIN AND W811 CIN

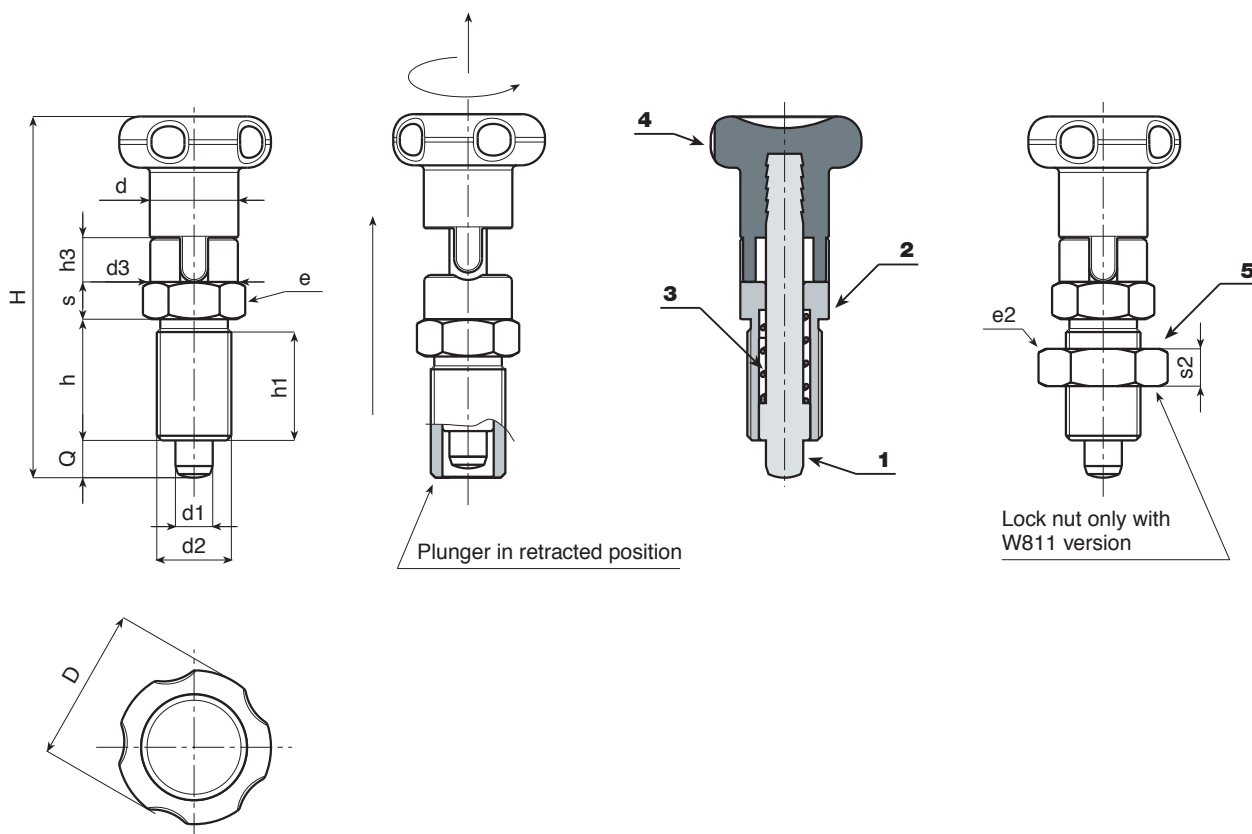
(1,2,5) Natural.

Packs containing 10 pieces.

SPECIAL REQUESTS:

- On request and for special quantities the knob is available in a choice of colours as indicated in the table on page 23.
- On request the nut can be supplied separate.

To lock the plunger in the retracted position, lift the knob and rotate by 90° until it clicks into the slot.



ART. W830 CIN – W831 CIN

STAINLESS STEEL BALL PLUNGER WITH SLOTTED END

INOX

MATERIAL:

Stainless steel ball plunger body (AISI 303).

BALL:

Hardened stainless steel ball.

SPRING:

Stainless steel spring (AISI 303).

THRUST TYPE:

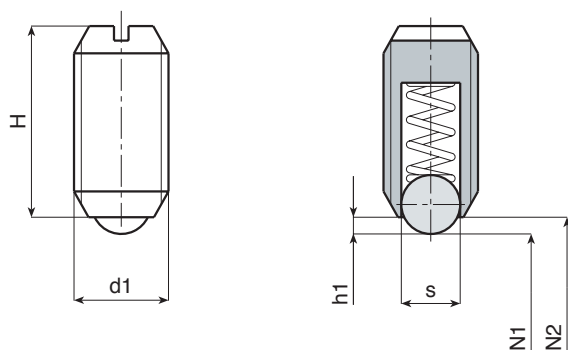
W830 CIN: Normal.

W831 CIN: Stronger (note the yellow flat end).

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request the ball plungers can be supplied with self-locking thread, through the application of a layer of polyamide (blue band).
- On request M03 diameters are available in the W830 CIN version, and M24 in the W830 CIN and W831 CIN versions.



W830 CIN version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W830.INM04 CIN	2,5	9	0,8	8,5	14	M04	0,4
W830.INM05 CIN	3	12	0,9	8	14	M05	0,9
W830.INM06 CIN	3,5	14	1	11	18	M06	1,5
W830.INM08 CIN	4,5	16	1,5	18	31	M08	3,5
W830.INM10 CIN	6	19	2	24	45	M10	6,5
W830.INM12 CIN	8	22	2,5	26	49	M12	10
W830.INM16 CIN	10	24	3,5	41	86	M16	24
W830.INM20 CIN	12	30	4,5	56	111	M20	43

W831 CIN version STRONGER thrust (thrust values in position N1 and N2)

Art.	s	H	h1	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W831.INM05 CIN	3	12	0,9	15	22	M05	0,9
W831.INM06 CIN	3,5	14	1	19	28	M06	1,5
W831.INM08 CIN	4,5	16	1,5	36	62	M08	3,5
W831.INM10 CIN	6	19	2	57	104	M10	6,5
W831.INM12 CIN	8	22	2,5	61	110	M12	10
W831.INM16 CIN	10	24	3,5	68	142	M16	24
W831.INM20 CIN	12	30	4,5	84	166	M20	43

ART. W830 – W831

STEEL BALL PLUNGER WITH SLOTTED END

MATERIAL:

Black-oxide treated automatic steel ball plunger body.

BALL:

Hardened ball-bearing steel ball.

SPRING:

Stainless steel spring (AISI 303).

THRUST TYPE:

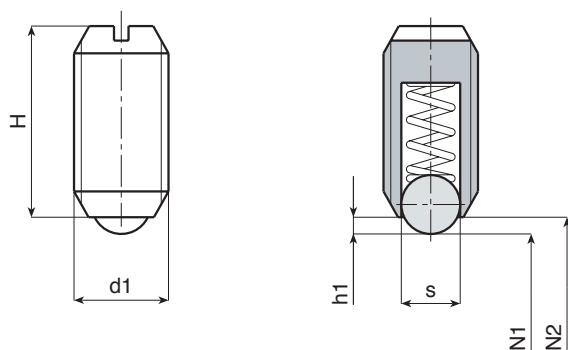
W830: Normal.

W831: Stronger (note the yellow ball).

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request the ball plungers can be supplied with self-locking thread, through the application of a layer of polyamide (blue band).
- On request M03 diameters are available in the W830 version, and M24 in the W830 and W831 versions.



W830 CIN version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W830.VBM04	2,5	9	0,8	8,5	14	M04	0,4
W830.VBM05	3	12	0,9	8	14	M05	0,9
W830.VBM06	3,5	14	1	11	18	M06	1,5
W830.VBM08	4,5	16	1,5	18	31	M08	3,5
W830.VBM10	6	19	2	24	45	M10	6,5
W830.VBM12	8	22	2,5	26	49	M12	10
W830.VBM16	10	24	3,5	41	86	M16	24
W830.VBM20	12	30	4,5	56	111	M20	43

W831 CIN version STRONGER thrust (thrust values in position N1 and N2)

Art.	s	H	h1	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W831.VBM05	3	12	0,9	15	22	M05	0,9
W831.VBM06	3,5	14	1	19	28	M06	1,5
W831.VBM08	4,5	16	1,5	36	62	M08	3,5
W831.VBM10	6	19	2	57	104	M10	6,5
W831.VBM12	8	22	2,5	61	110	M12	10
W831.VBM16	10	24	3,5	68	142	M16	24
W831.VBM20	12	30	4,5	84	166	M20	43

ART. W832 CIN – W833 CIN

STAINLESS STEEL SPRING PLUNGER WITH SLOTTED END AND NOSE PIN

MATERIAL:

Stainless steel nose pin plunger body (AISI 303).

INOX

NOSE PIN:

Turned stainless steel nose pin.

SPRING:

Stainless steel spring (AISI 303).

THRUST TYPE:

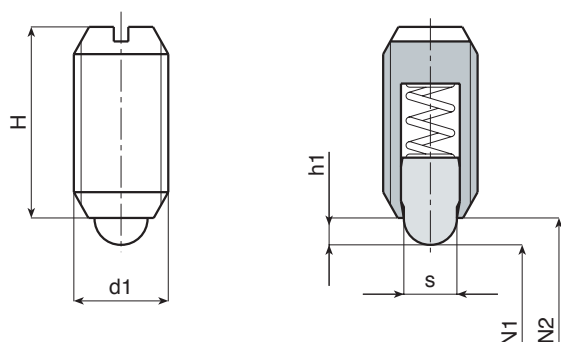
W832 CIN: Normal.

W833 CIN: Stronger (note the yellow flat end).

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request the nose pin plungers can be supplied with self-locking thread, through the application of a layer of polyamide (blue band).
- On request M04 diameters are available in the W832 CIN version, and M24 in the W832 CIN and W833 CIN versions.



Art. W833 CIN

W832 CIN version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W832.INM05 CIN	2,4	12	2	5	13	M05	0,9
W832.INM06 CIN	2,7	14	2	6	17	M06	1,5
W832.INM08 CIN	3,8	16	2	16	33	M08	3,5
W832.INM10 CIN	4,5	19	2,5	19	42	M10	6,5
W832.INM12 CIN	6,2	22	3,5	22	57	M12	40
W832.INM16 CIN	8,5	24	4,5	38	78	M16	24
W832.INM20 CIN	10	30	6,5	39	81	M20	43

W833 CIN version STRONGER thrust (thrust values in position N1 and N2)

Art.	s	H	h1	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W833.INM06 CIN	2,7	14	2	11	25	M06	1,5
W833.INM08 CIN	3,8	16	2	20	54	M08	3,5
W833.INM10 CIN	4,5	19	2,5	23	59	M10	6,5
W833.INM12 CIN	6,2	22	3,5	38	96	M12	40
W833.INM16 CIN	8,5	24	4,5	50	100	M16	24
W833.INM20 CIN	10	30	6,5	52	133	M20	43

ART. W832 – W833

STEEL SPRING PLUNGER WITH SLOTTED END AND NOSE PIN

MATERIAL:

Black-oxide treated automatic steel nose pin
plunger body.

NOSE PIN:

Hardened steel turned nose pin.

SPRING:

Stainless steel spring (AISI 303).

THRUST TYPE:

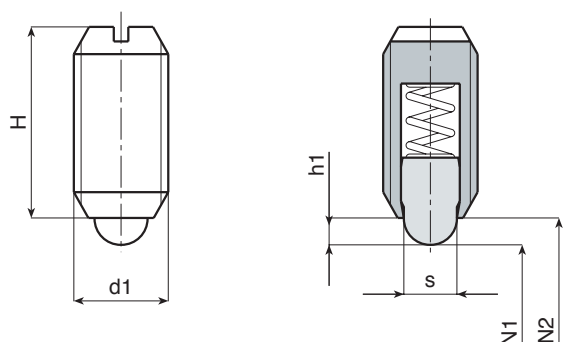
W832: Normal.

W833: Stronger (note the yellow nose pin).

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request the nose pin plungers can be supplied with self-locking thread, through the application of a layer of polyamide (blue band).
- On request M04 diameters are available in the W832 version, and M24 in the W832 e W833 versions.



Art. W833

W832 version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W832.VBM05	2,4	12	2	5	13	M05	0,9
W832.VBM06	2,7	14	2	6	17	M06	1,5
W832.VBM08	3,8	16	2	16	33	M08	3,5
W832.VBM10	4,5	19	2,5	19	42	M10	6,5
W832.VBM12	6,2	22	3,5	22	57	M12	40
W832.VBM16	8,5	24	4,5	38	78	M16	24
W832.VBM20	10	30	6,5	39	81	M20	43

W833 version STRONGER thrust (thrust values in position N1 and N2)

Art.	s	H	h1	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W833.VBM06	2,7	14	2	11	25	M06	1,5
W833.VBM08	3,8	16	2	20	54	M08	3,5
W833.VBM10	4,5	19	2,5	23	59	M10	6,5
W833.VBM12	6,2	22	3,5	38	96	M12	40
W833.VBM16	8,5	24	4,5	50	100	M16	24
W833.VBM20	10	30	6,5	52	133	M20	43

ART. W834 CIN – W835 CIN

STAINLESS STEEL BALL PLUNGER WITH HEXAGON SOCKET END

INOX

MATERIAL:

Stainless steel ball plunger body (AISI 303).

BALL:

Hardened stainless steel ball.

SPRING:

Stainless steel spring (AISI 303).

THRUST TYPE:

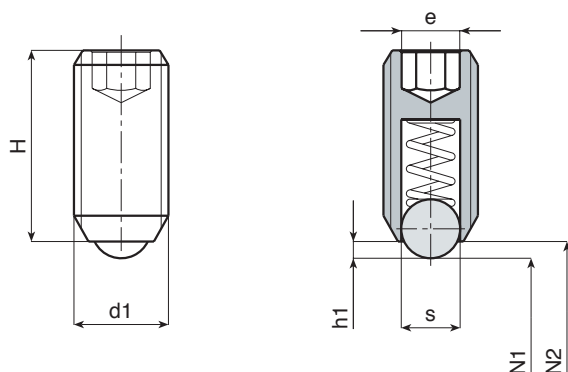
W834 CIN: Normal.

W835 CIN: Stronger (note the yellow flat end).

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request the ball plungers can be supplied with self-locking thread, through the application of a layer of polyamide (blue band).
- On request M03 diameters are available in the W834 CIN version, and M24 in the W834 CIN and W835 CIN versions.



W834 CIN version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	e	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W834.INM04 CIN	2,5	12	0,8	2	8,5	14	M04	0,4
W834.INM05 CIN	3	14	0,9	2,5	8	14	M05	0,9
W834.INM06 CIN	3,5	15	1	3	11	18	M06	1,5
W834.INM08 CIN	4,5	18	1,5	4	18	31	M08	3,5
W834.INM10 CIN	6	23	2	5	24	45	M10	6,5
W834.INM12 CIN	8	26	2,5	6	26	49	M12	10
W834.INM16 CIN	10	33	3,5	8	41	86	M16	24
W834.INM20 CIN	12	43	4,5	10	56	111	M20	43

W835 CIN version STRONGER thrust (thrust values in position N1 and N2)

Art.	s	H	h1	e	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W835.INM05 CIN	3	14	0,9	2,5	15	22	M05	0,9
W835.INM06 CIN	3,5	15	1	3	19	28	M06	1,5
W835.INM08 CIN	4,5	18	1,5	4	36	62	M08	3,5
W835.INM10 CIN	6	23	2	5	57	104	M10	6,5
W835.INM12 CIN	8	26	2,5	6	61	110	M12	10
W835.INM16 CIN	10	33	3,5	8	68	142	M16	24
W835.INM20 CIN	12	43	4,5	10	84	166	M20	43

ART. W834 – W835

STEEL BALL PLUNGER WITH HEXAGON SOCKET END

MATERIAL:

Black-oxide treated automatic steel ball plunger body.

BALL:

Hardened ball-bearing steel ball.

SPRING:

Stainless steel spring (AISI 303).

THRUST TYPE:

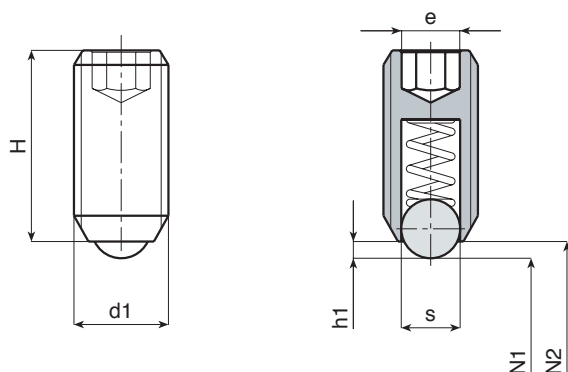
W834: Normal.

W835: Stronger (note the yellow ball).

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request the ball plungers can be supplied with self-locking thread, through the application of a layer of polyamide (blue band).
- On request M03 diameters are available in the W834 version, and M24 in the W834 and W835 versions.



W834 version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	e	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W834.VBM04	2,5	12	0,8	2	8,5	14	M04	0,4
W834.VBM05	3	14	0,9	2,5	8	14	M05	0,9
W834.VBM06	3,5	15	1	3	11	18	M06	1,5
W834.VBM08	4,5	18	1,5	4	18	31	M08	3,5
W834.VBM10	6	23	2	5	24	45	M10	6,5
W834.VBM12	8	26	2,5	6	26	49	M12	10
W834.VBM16	10	33	3,5	8	41	86	M16	24
W834.VBM20	12	43	4,5	10	56	111	M20	43

W835 version STRONGER thrust (thrust values in position N1 and N2)

Art.	s	H	h1	e	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W835.VBM05	3	14	0,9	2,5	15	22	M05	0,9
W835.VBM06	3,5	15	1	3	19	28	M06	1,5
W835.VBM08	4,5	18	1,5	4	36	62	M08	3,5
W835.VBM10	6	23	2	5	57	104	M10	6,5
W835.VBM12	8	26	2,5	6	61	110	M12	10
W835.VBM16	10	33	3,5	8	68	142	M16	24
W835.VBM20	12	43	4,5	10	84	166	M20	43

BLACK OXIDE TREATED STEEL SPRING PLUNGER WITH HEXAGON SOCKET END AND NOSE PIN

MATERIAL:

Black-oxide treated automatic steel nose pin plunger body.

NOSE PIN:

Hardened steel turned nose pin.

SPRING:

Stainless steel spring (AISI 303).

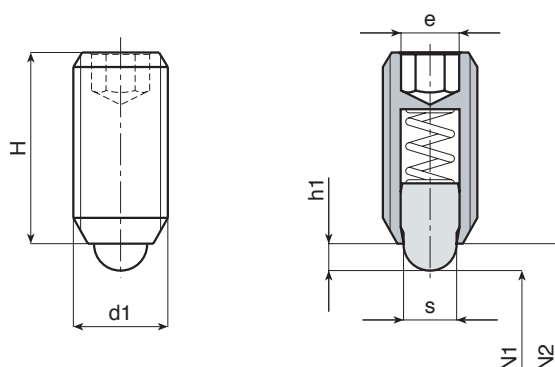
THRUST TYPE:

Normal.

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request the nose pin plungers can be supplied with self-locking thread, through the application of a layer of polyamide (blue band).
- On request M04 and M24 diameters are available.



W836 version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	e	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W836.VBM05	2,4	14	2	2,5	5	13	M05	1,1
W836.VBM06	2,7	15	2	3	6	17	M06	2
W836.VBM08	3,8	18	2	4	16	33	M08	4
W836.VBM10	4,5	23	2,5	5	19	42	M10	8
W836.VBM12	6,2	26	3,5	6	22	57	M12	12
W836.VBM16	8,5	33	4,5	8	38	78	M16	31
W836.VBM20	10	43	6,5	10	39	81	M20	64

STAINLESS STEEL SPRING PLUNGER WITH HEXAGON SOCKET END AND NOSE PIN

MATERIAL:

Stainless steel nose pin plunger body (AISI 303).

INOX

NOSE PIN:

Turned stainless steel nose pin.

SPRING:

Stainless steel spring (AISI 303).

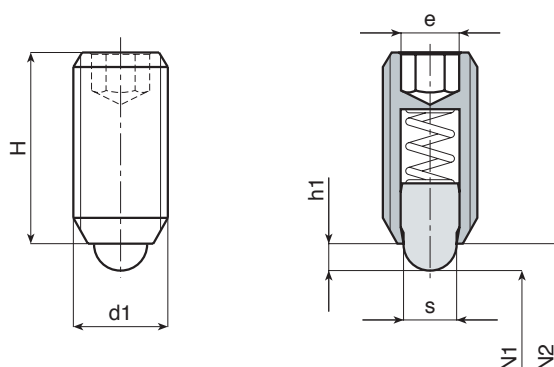
THRUST TYPE:

Normal.

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request the nose pin plungers can be supplied with self-locking thread, through the application of a layer of polyamide (blue band).
- On request M04 and M24 diameters are available.



W836 CIN version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	e	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W836.INM05 CIN	2,4	14	2	2,5	5	13	M05	1,1
W836.INM06 CIN	2,7	15	2	3	6	17	M06	2
W836.INM08 CIN	3,8	18	2	4	16	33	M08	4
W836.INM10 CIN	4,5	23	2,5	5	19	42	M10	8
W836.INM12 CIN	6,2	26	3,5	6	22	57	M12	12
W836.INM16 CIN	8,5	33	4,5	8	38	78	M16	31
W836.INM20 CIN	10	43	6,5	10	39	81	M20	64

BLACK OXIDE TREATED STEEL SPRING PLUNGER WITH GRUB SCREW AND NOSE PIN

MATERIAL:

Black-oxide treated automatic steel nose pin plunger body.

NOSE PIN:

(1) Hardened steel turned nose pin.

SPRING:

(3) Stainless steel spring (AISI 303).

GRUB SCREW:

(2) Black-oxide treated grub screw with hexagon socket end (note the grub screw is glued in place).

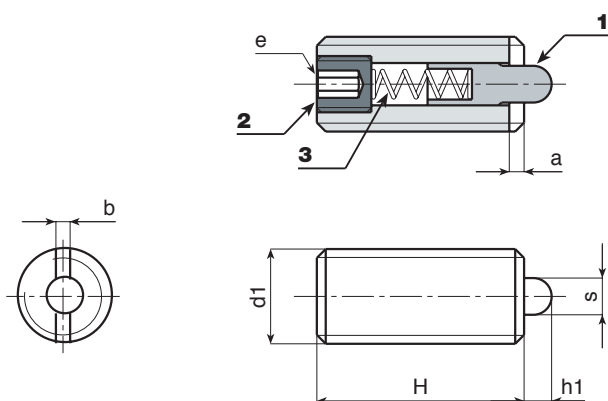
THRUST TYPE:

Normal.

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request M03 and M24 diameters are available.
- On request the grub screws can be supplied with stronger spring (W841).



W840 version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	e	a	b	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W840.VBM04	1,5	15	1,5	1,3	0,6	0,6	4,5	16	M04	0,8
W840.VBM05	2,4	18	2,3	1,5	1,2	0,8	6	19	M05	1,6
W840.VBM06	2,7	20	2,5	2	1,3	0,9	6	19	M06	2,5
W840.VBM08	3,5	22	3	2,5	1,5	1,4	10	39	M08	6
W840.VBM10	4	22	3	3	1,5	1,4	10	39	M10	9
W840.VBM12	6	28	4	4	2,7	2	12	53	M12	16

STAINLESS STEEL SPRING PLUNGER WITH GRUB SCREW AND NOSE PIN

MATERIAL:

Stainless steel nose pin plunger body (AISI 303).

INOX

NOSE PIN:

(1) Turned stainless steel nose pin.

SPRING:

(3) Stainless steel spring (AISI 303).

GRUB SCREW:

(2) Stainless steel grub screw with hexagon socket end (note the grub screw is glued in place).

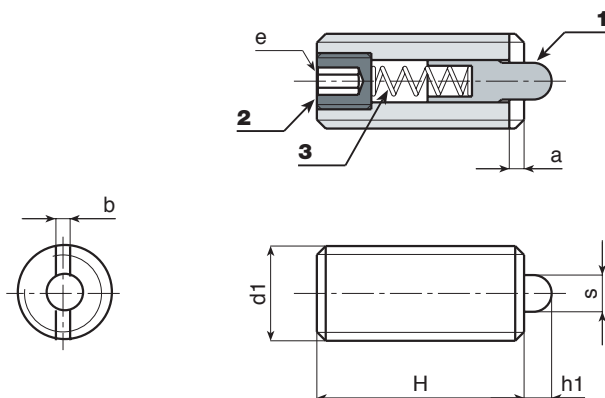
THRUST TYPE:

Normal.

Packs containing 10 pieces.

SPECIAL REQUEST:

- On request M04 and M20 diameters are available.



W840 CIN version normal thrust (thrust values in position N1 and N2)

Art.	s	H	h1	e	a	b	N1 (Newton)	N2 (Newton)	d1	Weight (gr)
W840.INM05 CIN	2,4	18	2,3	1,5	1,2	0,8	6	19	M05	1,6
W840.INM06 CIN	2,7	20	2,5	2	1,3	0,9	6	19	M06	2,5
W840.INM08 CIN	3,5	22	3	2,5	1,5	1,4	10	39	M08	6
W840.INM10 CIN	4	22	3	3	1,5	1,4	10	39	M10	9
W840.INM12 CIN	6	28	4	4	2,7	2	12	53	M12	16
W840.INM16 CIN	7,5	32	5	5	3,2	2,5	45	100	M16	35

ART. W850 CIN

STAINLESS STEEL UNTHREADED BALL PLUNGER

INOX

MATERIAL:

Stainless steel sheet ball plunger body (AISI 303).

BALL:

Hardened stainless steel ball.

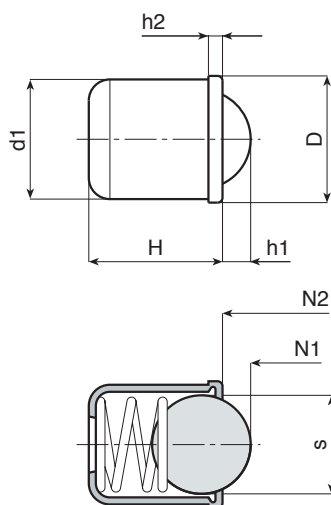
SPRING:

Stainless steel spring (AISI 303).

Packs containing 10 pieces.

SPECIAL REQUEST:

- None.



Art.	s	H	h1	h2	D	N1 (Newton)	N2 (Newton)	d1 ^{-0,02} _{-0,04}	Weight (gr)
W850.IND04 CIN	3	5	1	0,9	4,6	2,5	6	D04	0,4
W850.IND05 CIN	4	6	1,4	0,9	5,6	3	6,5	D05	0,6
W850.IND06 CIN	5	7	1,8	1	6,5	5,5	11,5	D06	1
W850.IND08 CIN	6,5	9	2,4	1,1	8,5	7	12,5	D08	2,2
W850.IND10 CIN	8,5	13	3,3	1,7	11	8,5	18,5	D10	4
W850.IND12 CIN	10	16	4	2,3	13	12	26,5	D12	7,8