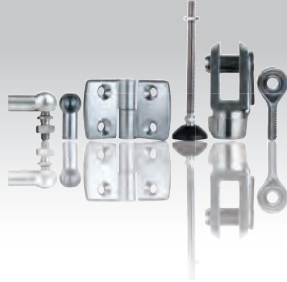


norelem moves

Systems and components for machine and plant construction

27000

Clevis joints
Rod ends
Ball joints
Axial joints
Levelling sets
Swivel feet
Levelling feet
Tube-end plugs
Equipment feet
Hinges



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Clevis joints for rod ends

27615
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Clevis joints for rod ends
stainless steel

27616
Page 790



Hinge plates

27618
Page 790



Rod-end eyes

27620
Page 791



Clevis joints with snap-in pin
DIN 71752

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Page 792



Snap-in pins
for DIN 71752 clevis joints

27621-01
Page 793



Pin with circlip groove
suitable for clevis joints

27621-02
Page 794



Pin with circlip groove
suitable for clevis joints

27621-03
Page 795



Pin with hole for split pin
suitable for clevis joints

27622
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Clevis joints stainless steel
DIN 71752

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Clevis joints
DIN 71752

27624-05
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Clevis, steel or stainless steel
with male thread

27624-10
Page 799



Clevis tang, steel

27625
Page 800



Rod ends with ball bearing
external thread

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Page 801



Rod ends with ball bearing
internal thread

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Page 802



Rod ends with plain bearing
external thread

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Page 803



Rod ends igubal® with plain bearing
external thread

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Rod ends with plain bearing
internal thread

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Rod ends igubal® with plain bearing
internal thread

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Rod ends with plain bearing
external thread, stainless steel

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Rod ends with plain bearing
internal thread, stainless steel

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Page 808



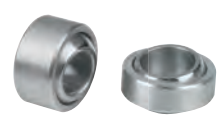
Rod ends with plain bearing
external thread, narrow version

27632
Page 809



Rod ends with plain bearing
internal thread, narrow version

27632-02
Page 810



Spherical bearings K/E series
DIN ISO 12240-1

27650
Page 811



Ball joints
DIN 71802

27655
Page 812



Ball seats for ball joints
DIN 71805

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Page 813



Ball studs DIN 71803
for DIN 71802 angle joints

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Page 814



Angle brackets

27658
Page 814



Side brackets

27659
Page 815



Round brackets

27660
Page 815



Circlips for ball seats
DIN 71805

27665
Page 816



Axial joints
similar to DIN 71802

+ New/Expanded Items

norelem moves

Systems and components for machine and plant construction

27000

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Page 819



Axial joints for tractive forces adjustable

27700
Page 820



Levelling sets high version

27701
Page 821



Levelling sets with locknut

27702
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Levelling sets low version

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Levelling sets low version with locknut

27705
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Levelling sets spherical washer

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Page 825



Levelling sets spherical washer with locknut

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Page 826



Levelling sets spherical washer

27708
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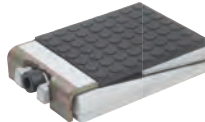
Levelling sets spherical washer with locknut

27710
Page 828



Levelling wedges, steel free-standing

27710-05
Page 829



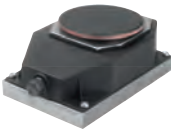
Levelling wedges, steel with non-slip insulating layer, free-standing

27710-10
Page 830



Levelling wedges with adhesive anchor

27710-15
Page 831



Levelling wedges, steel free-standing

27710-20
Page 832



Levelling wedges, aluminium with adhesive anchor

27710-25
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Levelling wedges, aluminium with non-slip insulating layer, free-standing

27710-30
Page 834



Spacer washers, steel or stainless steel

27750
Page 835



Cup elements type H2

27760
Page 836



Machine feet

27761
Page 840



Machine feet, aluminium with vibration absorption screw-on

27790
Page 842



Levelling feet steel or stainless steel

27791-05
Page 845



Levelling feet in Hygienic DESIGN

27792
Page 847



Swivel feet steel

27794
Page 848



Levelling feet round

27795
Page 849



Levelling feet round with hex. collar

27796
Page 850



Levelling feet with hex. base

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Page 851



Levelling feet with knurled base

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Levelling feet

27799
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Levelling feet caps

27800
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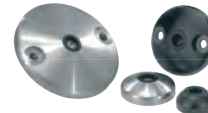
Swivel feet plates antistatic

27800
Page 857



Swivel feet plates plastic

27801
Page 859



Swivel feet plates die-cast zinc or stainless steel

27802
Page 860



Swivel feet plates extended die-cast zinc

27803
Page 861



Swivel feet plates stainless steel

27804
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Swivel feet plates with vibration absorption

27806
Page 864



Swivel feet with vibration absorption

27808
Page 865



Machine feet with vibration absorption

+ New/Expanded Items

norelem moves

Systems and components for machine and plant construction

27000

27810
Page 866



Swivel feet threaded spindles
steel or stainless steel

27811
Page 867



Swivel feet ball joints
with internal thread

27815
Page 869



Levelling feet plates
plastic

27816
Page 870



Levelling feet plates
plastic, heavy-duty version

27817
Page 873



Levelling feet plates
die-cast zinc or stainless steel

27818
Page 874



Levelling feet plates extended
die-cast zinc

27828
Page 875



Levelling feet threaded spindles
steel or stainless steel

27830
Page 877



Levelling feet plates ECO
die-cast zinc, stainless steel or plastic

27832
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Levelling feet ECO threaded spindles
steel or stainless steel

27833
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Ducks feet

27835
Page 880



Tube inserts square
with tapped bush

27836
Page 881



Tube inserts round
with tapped bush

27840
Page 882



Levelling feet
for aluminium profiles

27841
Page 883



Levelling feet

27850
Page 887



Hinges
plastic, lift-off, left

27850
Page 889



Hinges
plastic, lift-off, right

27852
Page 891



Hinges
plastic

27853
Page 892



Hinges
plastic, with locking lever

27854
Page 893



Hinges
plastic, with elongated holes

27855
Page 894



Hinges
plastic with fastening holes

27856
Page 895



Hinges
plastic, lift-off, with guide tabs

27857
Page 896



Hinges
plastic, detent

27858
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Hinges
plastic, with adjustable friction

27859
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Hinges
aluminium, with adjustable friction

27860
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Hinges
aluminium, with adjustable friction

27860-01
Page 900



Hinges, stainless steel
with preset friction

27861
Page 901



Hinges
aluminium, with detent

27862
Page 902



Hinges
aluminium, with detent

27865
Page 903



Hinges
die-cast zinc, with elongated holes

27868
Page 904



Hinges
die-cast zinc, with locking lever

27870
Page 905



Hinges
aluminium, lift-off, left

27870
Page 906



Hinges
aluminium, lift-off, right

27870-01
Page 907



Hinges lift-off
stainless steel

27872
Page 908



Hinges
aluminium

27875
Page 909



Hinges
stainless steel

27875-01
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Hinges
stainless steel

+ New/Expanded Items

norelem moves

Systems and components for machine and plant construction

27000

27875-89
Page 911



Hinges lift-off
stainless steel

27875-90
Page 912



Hinges
stainless steel

27876
Page 913



Hinges
stainless steel

27876-01
Page 914



Single leaf hinges
adjustable, stainless steel

27876-02
Page 915



Hinges
stainless steel

27876-05
Page 916



Strap hinges
stainless steel with grease nipple

27877
Page 917



Hinges
sheet steel or sheet stainless steel

27877-01
Page 918



Butt hinges
stainless steel

27877-02
Page 919



Hinges, stainless steel



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Page 920



Hinges steel or stainless steel
internal, opening angle 90°

27879-01
Page 921



Hinges steel or stainless steel
internal, opening angle 125°

27879-02
Page 922



Hinges steel
internal, opening angle 110°

27879-10
Page 923



Hinges, steel, in-frame
opening angle 110°



27880
Page 924



Hinges
plastic with bushes

27882
Page 925



Hinges
plastic with fastening screws

27884
Page 926



Hinges
plastic with bush and fastening screws

27885
Page 927



Hinges
weldable

27886
Page 928



Hinges
weldable, stainless steel

27886-01
Page 929



Hinges
weldable, stainless steel

27886-03
Page 930



In-line hinges stainless steel
lift-off, screw-on

27888
Page 931



Block hinges
weldable

27890
Page 932



Block hinges
with fastening nuts

27890-02
Page 933



Block hinges
with fastening nuts

27891
Page 934



Block hinges
with fastening nuts, long version

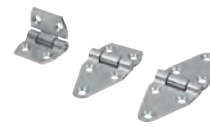


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Page 935



Block hinges
with counterbore, long version

27898
Page 936



Hinges
steel, maintenance-free

27900
Page 937



Spring hinges
steel, stainless steel or aluminium,
50 mm

27901
Page 938



Spring hinges
steel or stainless steel, 75 mm

27902
Page 939



Spring hinges
steel, stainless steel or aluminium, 120
mm

27903
Page 940



Spring hinges
steel or stainless steel, 180 mm

27904
Page 941



Spring hinges
steel or stainless steel, 240 mm

27905
Page 942



Spring hinges
aluminium profile tension spring
hinges, 0.20 Nm



27906
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Spring hinges
aluminium profile tension spring
hinges, 0.35 Nm



27906-01
Page 944



Spring hinges
aluminium profile, 0.50 Nm



27907
Page 945



Spring hinges
aluminium profile tension spring
hinges, 0.7 Nm



27907-01
Page 946



Spring hinges
aluminium profile, 0.7 Nm, long
version



New/Expanded Items

27000

Clevis joints
Rod ends
Ball joints
Axial joints
Levelling sets
Swivel feet

Levelling feet
Tube-end plugs
Equipment feet
Hinges



20000

21000

22000

23000

24000

26000

27000

28000

29000

31000

32000

33000

Clevis joints for rod ends


Material:

Clevis and pin, steel 1.7225

Version:

Electro zinc-plated.

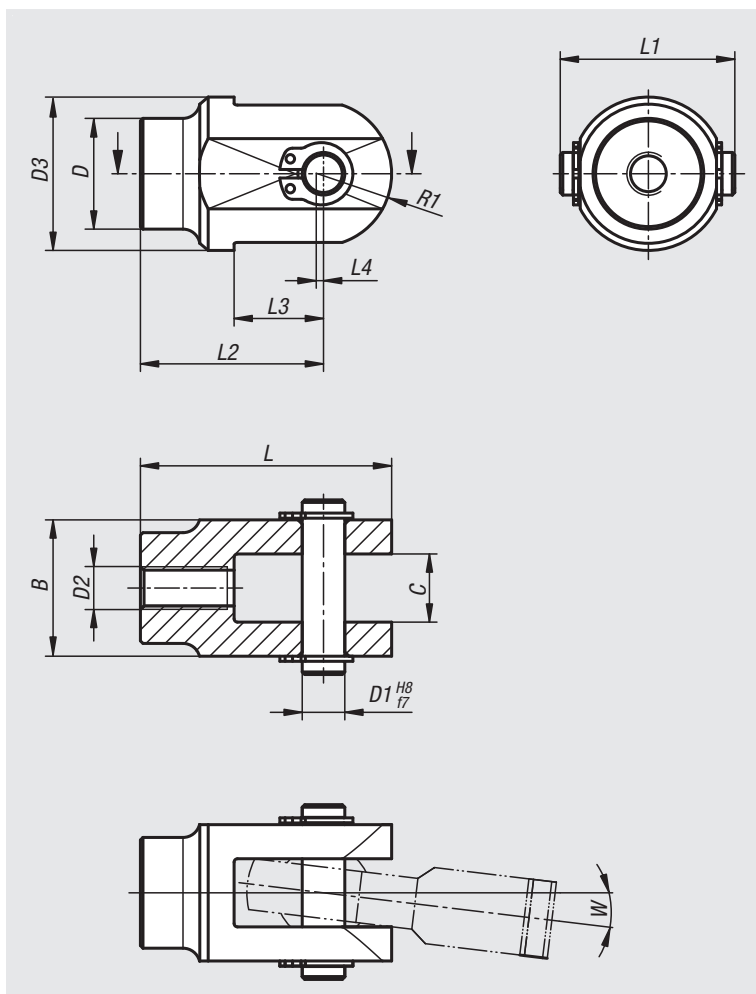
Sample order:

nlm 27614-05080516

Note:

These clevises were developed as accessories for rod ends. The clevis opening size C was chosen to accept rod end joints.

Suitable for rod ends 27625, 27626, 27627 and 27628.



Order No.	B	C	D	D1	D2	D3	L	L1	L2	L3	L4	R1	W°	F static kN
27614-05080516	16	8	13	5	M5	18	29,5	20,5	21,5	10,5	0,5	8,5	6,5	8
27614-06090618	18	9	15	6	M6	20	33,5	22,9	25	11,5	0,5	9	7	9
27614-08120820	20	12	17	8	M8	24	41	24,9	31,5	13,5	1	10,5	8	14,5
27614-10141025	25	14	21	10	M10	28	49,5	30,3	38	16	1	12,5	8	19,5
27614-12161229	29	16	25	12	M12	32	57,5	34,3	44	18	1,5	15	8	23,5
27614-16211638	38	21	30	16	M16	42	76,5	43,3	58	23,5	1,5	20	9	32
27614-20252045	45	25	38	20	M20	50	90,5	51,9	68	29,5	-	22,5	9	43

Clevis joints for rod ends

stainless steel



Material:

Clevis and pins stainless steel 1.4305.

Version:

Bright.

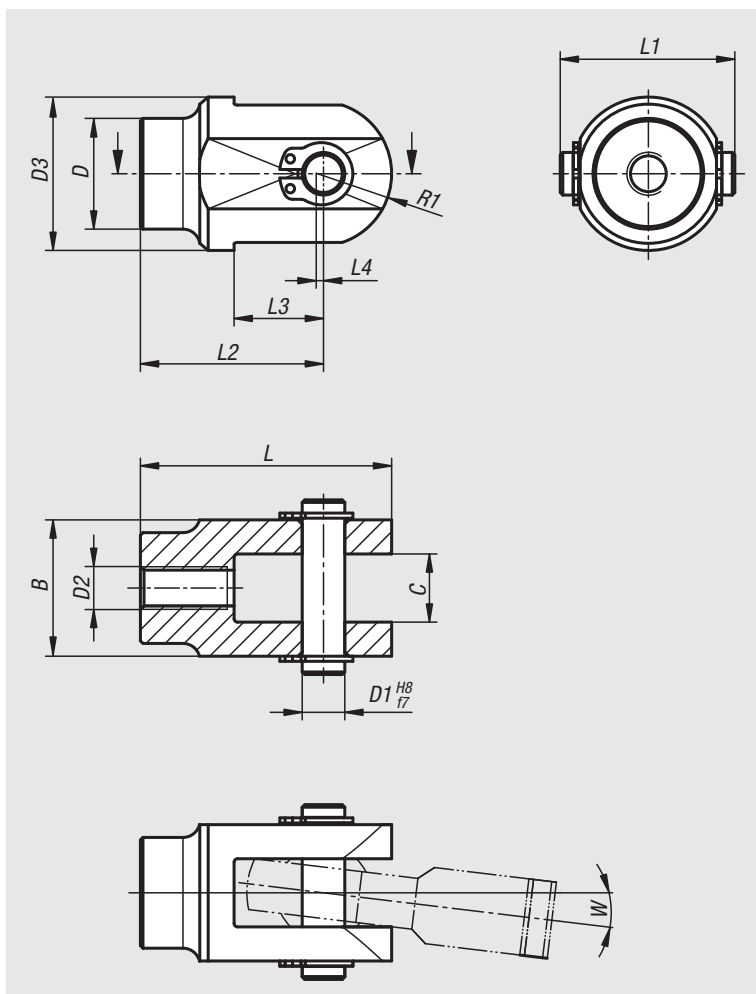
Sample order:

nln 27615-05080516

Note:

These clevises were developed as accessories for rod ends. The clevis opening size C was chosen to accept rod end joints.

Suitable for rod ends 27629 and 27630.



Order No.	B	C	D	D1	D2	D3	L	L1	L2	L3	L4	R1	W°	F static kN
27615-05080516	16	8	13	5	M5	18	29,5	20,5	21,5	10,5	0,5	8,5	6,5	8
27615-06090618	18	9	15	6	M6	20	33,5	22,9	25	11,5	0,5	9	7	9
27615-08120820	20	12	17	8	M8	24	41	24,9	31,5	13,5	1	10,5	8	14,5
27615-10141025	25	14	21	10	M10	28	49,5	30,3	38	16	1	12,5	8	19,5
27615-12161229	29	16	25	12	M12	32	57,5	34,3	44	18	1,5	15	8	23,5
27615-16211638	38	21	30	16	M16	42	76,5	43,3	58	23,5	1,5	20	9	32
27615-20252045	45	25	38	20	M20	50	90,5	51,9	68	29,5	-	22,5	9	43

Hinge plates


Material:

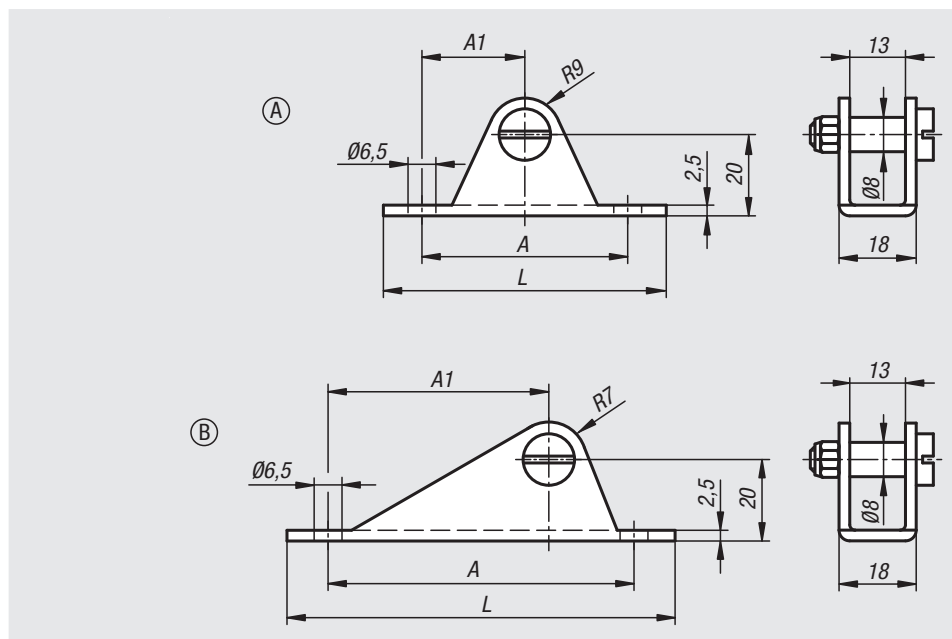
Steel or stainless steel 1.4404.

Version:

Steel electro zinc-plated.
Stainless steel bright.

Sample order:

nIm 27616-08070



Order No. steel	Order No. stainless steel	Form	A	A1	L	Strength N
27616-08070	27616-080701	A	51	25,5	70	1800
27616-08095	27616-080951	B	75	54	96	1800

Rod-end eyes


Material:

Steel or 1.4305 stainless steel

Version:

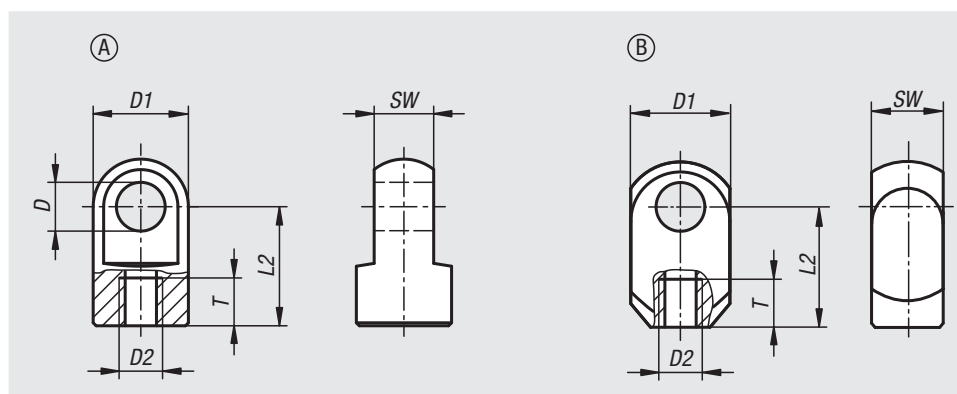
Steel electro zinc-plated.
Stainless steel bright.

Sample order:

nIm 27618-03504111

Note:

With internal thread.



Order No. steel	Order No. stainless steel	Form	D	D1	D2	L2	SW	T
27618-03504111	-	A	4,1	8	M3,5	11	4	6
27618-0506116	27618-05061161	A	6,1	10	M5	16	6	8
27618-0508116	-	B	8,1	15	M5	16	10	8
27618-0808119	27618-08081191	A	8,1	14	M8	19	10	11
27618-1008127	27618-10081271	A	8,1	18	M10	27	10	12

Clevis joints with snap-in pin

DIN 71752

**Material:**

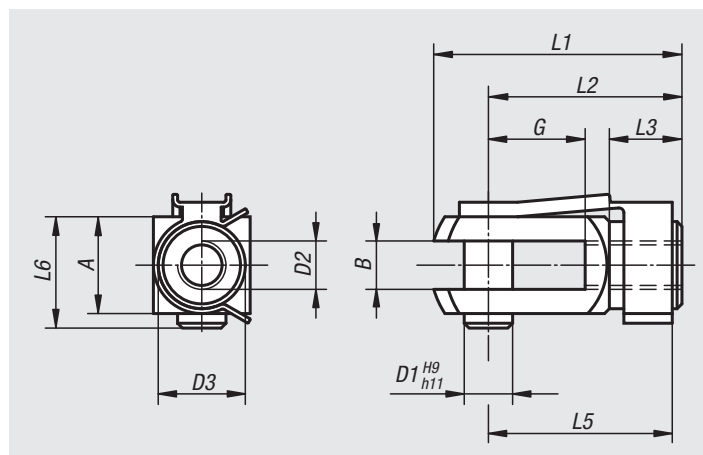
Clevis and pins free-cutting steel.
Spring, spring steel.

Version:

Trivalent passivated.

Sample order:

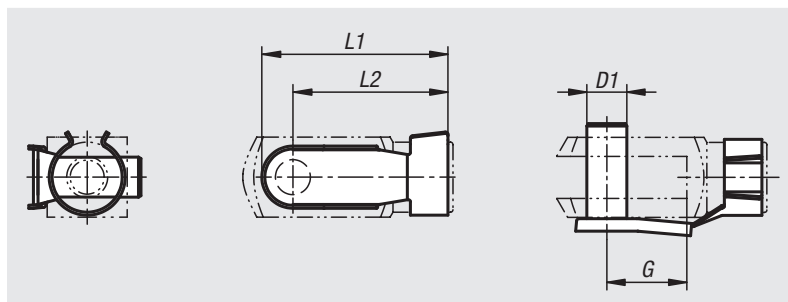
nlm 27620-0510



Order No.	Version	B	G	D1	D2	D3	L1	L2	L3	L5	L6	A
27620-03508	rh thread	4	8	4	M3,5	8	21	16	6	15	10	8
27620-0510	rh thread	5	10	5	M5	9	26	20	7,5	19	12	10
27620-0612	rh thread	6	12	6	M6	10	31	24	9	23	14	12
27620-0816	rh thread	8	16	8	M8	14	42	32	12	31	19	16
27620-0832	rh thread	8	32	8	M8	14	58	48	12	47	19	16
27620-1020	rh thread	10	20	10	M10	18	52	40	15	39	23	20
27620-10120	rh thread	10	20	10	M10x1,25	18	52	40	15	39	23	20
27620-1040	rh thread	10	40	10	M10	18	72	60	15	59	23	20
27620-10140	rh thread	10	40	10	M10x1,25	18	72	60	15	59	23	20
27620-1224	rh thread	12	24	12	M12	20	62	48	18	47	28	24
27620-12124	rh thread	12	24	12	M12x1,25	20	62	48	18	47	28	24
27620-1248	rh thread	12	48	12	M12	20	86	72	18	69	28	24
27620-12148	rh thread	12	48	12	M12x1,25	20	86	72	18	69	28	24
27620-1428	rh thread	14	28	14	M14	24	72	56	22,5	52	31	27
27620-1632	rh thread	16	32	16	M16	26	83	64	24	62	36	32
27620-16132	rh thread	16	32	16	M16x1,5	26	83	64	24	62	36	32
27620-05101	lh thread	5	10	5	M5	9	26	20	7,5	19	12	10
27620-06121	lh thread	6	12	6	M6	10	31	24	9	23	14	12
27620-08161	lh thread	8	16	8	M8	14	42	32	12	31	19	16
27620-08321	lh thread	8	32	8	M8	14	58	48	12	47	19	16
27620-10201	lh thread	10	20	10	M10	18	52	40	15	39	23	20
27620-10401	lh thread	10	40	10	M10	18	72	60	15	59	23	20
27620-12241	lh thread	12	24	12	M12	20	62	48	18	47	28	24
27620-16321	lh thread	16	32	16	M16	26	83	64	24	62	36	32

Snap-in pins

for DIN 71752 clevis joints


Material:

Pin, steel.

Spring, tempered leaf spring steel.

Version:

Electro zinc-plated.

Sample order:

nlm 27621-0408

Note:

For DIN 71752 clevis.

Order No.	D1	G	L1	L2
27621-0408	4	8	18,5	15
27621-0510	5	10	23	19
27621-0612	6	12	28	23
27621-0816	8	16	37	30
27621-0832	8	32	52	46
27621-1020	10	20	46	38
27621-1040	10	40	66	58
27621-1224	12	24	53	45
27621-1248	12	48	78	69
27621-1428	14	28	62	52
27621-1632	16	32	73	62

Pin with circlip groove

suitable for clevis joints



Material:

Steel 1.0718 or stainless steel 1.4305.

Version:

Electro zinc-plated steel.

Bright stainless steel.

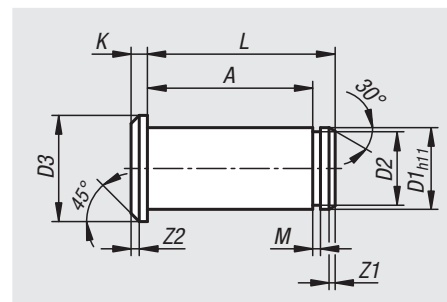
Sample order:

nln 27621-01-004085

Note:

Pin with groove, suitable for DIN 71752 clevis. Secured with a DIN 6799 E-type circlip (alternatively a KL or SL clip).

When combined with a suitable clevis and tang, forms a fully functional clevis joint.



Order No. steel	Order No. stainless steel	D1	D2	D3	A	K	L	M	Z1	Z2
27621-01-004085	27621-01-104085	4	3,2	6	8,5	1	10,5	0,64	0,5	0,5
27621-01-005105	27621-01-105105	5	4	8	10,5	1,5	13	0,74	0,5	0,5
27621-01-006125	27621-01-106125	6	5	9	12,5	1,5	15,5	0,74	1	0,5
27621-01-008165	27621-01-108165	8	6	12	16,5	2	20	0,94	0,5	1
27621-01-010205	27621-01-110205	10	8	14	20,5	2	25	1,05	1	1
27621-01-012245	27621-01-112245	12	9	17	24,5	3	30	1,15	1	1,5
27621-01-014275	27621-01-114275	14	10	19	27,5	3	33	1,25	1,25	1,5
27621-01-016325	27621-01-116325	16	12	21	32,5	3	38,5	1,35	1,5	1,5
27621-01-020405	27621-01-120405	20	17,5	26	40,5	4	46	1,9	1,5	2
27621-01-025505	-	25	18	32	50,5	5	57	1,9	1,5	2

Pin with circlip groove

suitable for clevis joints


Material:

Steel 1.0718 or stainless steel 1.4305.

Version:

Electro zinc-plated steel.

Bright stainless steel.

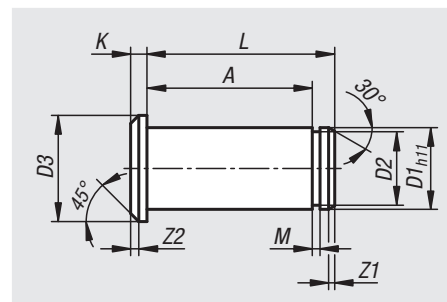
Sample order:

nlm 27621-02-004085

Note:

Pins with groove suitable for DIN 71752 clevis. Secured with a DIN 471 circlip.

When combined with a suitable clevis and tang, forms a fully functional clevis joint.



Order No. steel	Order No. stainless steel	D1	D2	D3	A	K	L	M	Z1	Z2
27621-02-004085	27621-02-104085	4	3,8	6	8,5	0,5	10	0,5	0,5	0,5
27621-02-005105	27621-02-105105	5	4,8	8	10,5	0,7	12,5	0,7	0,5	0,5
27621-02-006125	27621-02-106125	6	5,7	9	12,5	0,8	15,5	0,8	0,75	0,5
27621-02-008165	27621-02-108165	8	7,6	12	16,5	0,9	20,5	0,9	1	1
27621-02-010205	27621-02-110205	10	9,6	14	20,5	1,1	24	1,1	1	1
27621-02-012245	27621-02-112245	12	11,5	17	24,5	1,1	28	1,1	1,25	1,5
27621-02-014275	-	14	13,4	19	27,5	1,1	32	1,1	1,25	1,5
27621-02-016325	27621-02-116325	16	15,2	21	32,5	1,1	37	1,1	1,5	1,5
27621-02-020405	27621-02-120405	20	19	26	40,5	1,3	46	1,3	1,5	2

Pin with hole for split pin

suitable for clevis joints



Material:

Steel 1.0718 or stainless steel 1.4305.

Version:

Electro zinc-plated steel.

Bright stainless steel.

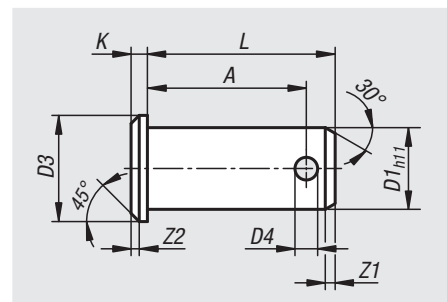
Sample order:

nln 27621-03-004100

Note:

Pins with a hole, suitable for DIN 71752 clevis. Secured with a split pin.

When combined with a suitable clevis and tang, forms a fully functional clevis joint.



Order No. steel	Order No. stainless steel	D1	D3	D4	A	K	L	Z1	Z2
27621-03-004100	27621-03-104100	4	6	1	10	1	12	1	0,5
27621-03-005123	27621-03-105123	5	8	1,2	12,3	1,5	15	1	0,5
27621-03-006153	27621-03-106153	6	9	1,6	15,3	1,5	18	1,5	0,5
27621-03-008195	27621-03-108195	8	12	2	19,5	2	23	2	1
27621-03-010245	27621-03-110245	10	14	3,2	24,5	2	29	2	1
27621-03-012295	27621-03-112295	12	17	4	29,5	3	35	2,5	1,5
27621-03-014325	27621-03-114325	14	19	4	32,5	3	40	2,5	1,5
27621-03-016382	27621-03-116382	16	21	4	38,2	3	45	2,5	1,5
27621-03-020470	27621-03-120470	20	26	5	47	4	53	3	2
27621-03-025590	27621-03-125590	25	32	6,3	59	5	67	4	2
27621-03-028632	-	28	34	6,3	63,2	5	72	4	2
27621-03-030590	27621-03-130590	30	36	6,3	59	5	67	4	2
27621-03-030682	-	30	36	6,3	68,2	5	77	4	2
27621-03-035765	-	35	44	8	76,5	6	87	5	2
27621-03-040900	-	40	48	8	90	6	100	5	2
27621-03-042900	-	42	48	8	90	7	100	5	2
27621-03-0501030	-	50	58	10	103	7	115	6	2

Clevis joints stainless steel

DIN 71752

**Material:**

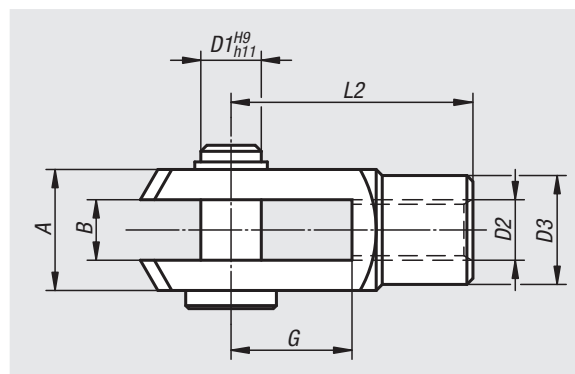
Stainless steel 1.4305.

Version:

Bright.

Sample order:

nlm 27622-0816



Order No.	Version	B	G	D1	D2	D3	L2	A
27622-0510	rh thread	5	10	5	M5	9	20	10
27622-0612	rh thread	6	12	6	M6	10	24	12
27622-0816	rh thread	8	16	8	M8	14	32	16
27622-0832	rh thread	8	32	8	M8	14	48	16
27622-1020	rh thread	10	20	10	M10	18	40	20
27622-10120	rh thread	10	20	10	M10x1,25	18	40	20
27622-1040	rh thread	10	40	10	M10	18	60	20
27622-1224	rh thread	12	24	12	M12	20	48	24
27622-12124	rh thread	12	24	12	M12x1,25	20	48	24
27622-1248	rh thread	12	48	12	M12	20	72	24
27622-12148	rh thread	12	48	12	M12x1,25	20	72	24
27622-1428	rh thread	14	28	14	M14	24	56	27
27622-1632	rh thread	16	32	16	M16	26	64	32
27622-16132	rh thread	16	32	16	M16x1,5	26	64	32
27622-05101	lh thread	5	10	5	M5	9	20	10
27622-06121	lh thread	6	12	6	M6	10	24	12
27622-08161	lh thread	8	16	8	M8	14	32	16
27622-10201	lh thread	10	20	10	M10	18	40	20
27622-12241	lh thread	12	24	12	M12	20	48	24
27622-16321	lh thread	16	32	16	M16	26	64	32

Clevis joints

DIN 71752

**Material:**

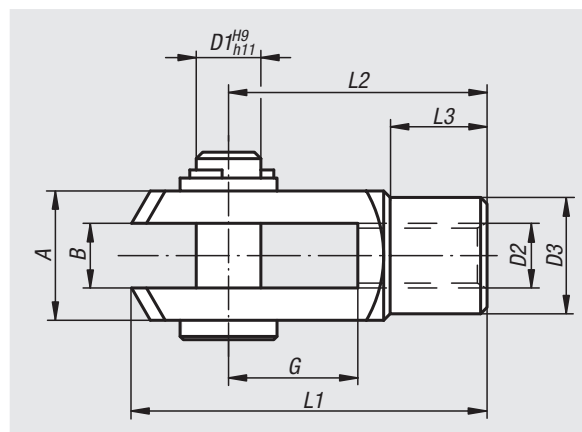
Steel.

Version:

Electro zinc-plated.

Sample order:

nlm 27624-0510



Order No.	Version	B	G	D1	D2	D3	L1	L2	L3	A
27624-0510	rh thread	5	10	5	M5	9	26	20	7,5	10
27624-0612	rh thread	6	12	6	M6	10	31	24	9	12
27624-0816	rh thread	8	16	8	M8	14	42	32	12	16
27624-0832	rh thread	8	32	8	M8	14	58	48	12	16
27624-1020	rh thread	10	20	10	M10	18	52	40	15	20
27624-10120	rh thread	10	20	10	M10x1,25	18	52	40	15	20
27624-1040	rh thread	10	40	10	M10	18	72	60	15	20
27624-10140	rh thread	10	40	10	M10x1,25	18	72	60	15	20
27624-1224	rh thread	12	24	12	M12	20	62	48	18	24
27624-12124	rh thread	12	24	12	M12x1,25	20	62	48	18	24
27624-1248	rh thread	12	48	12	M12	20	86	72	18	24
27624-12148	rh thread	12	48	12	M12x1,25	20	86	72	18	24
27624-1428	rh thread	14	28	14	M14	24	72	56	22,5	27
27624-1632	rh thread	16	32	16	M16	26	83	64	24	32
27624-16132	rh thread	16	32	16	M16x1,5	26	83	64	24	32
27624-05101	lh thread	5	10	5	M5	9	26	20	7,5	10
27624-06121	lh thread	6	12	6	M6	10	31	24	9	12
27624-08161	lh thread	8	16	8	M8	14	42	32	12	16
27624-10201	lh thread	10	20	10	M10	18	52	40	15	20
27624-12241	lh thread	12	24	12	M12	20	62	48	18	24
27624-16321	lh thread	16	32	16	M16	26	83	64	24	32

Clevis, steel or stainless steel

with male thread



Material:

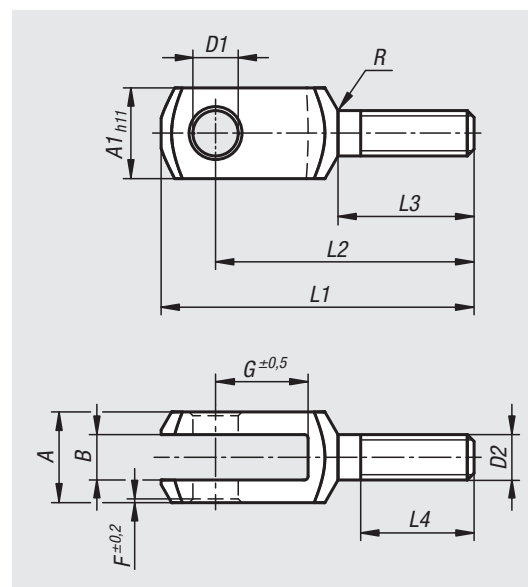
Steel 1.0718 or stainless steel 1.4305.

Version:

Steel electro zinc-plated.
Stainless steel bright.

Sample order:

nlm 27624-05-0612



Order No. steel	Order No. stainless steel	A	A1	B	D1	D2	F	G	L1	L2	L3	L4	R
27624-05-0612	27624-05-10612	12	12	6	6	M6	0,5	12	44	37	20	15	0,8
27624-05-0816	27624-05-10816	16	16	8	8	M8	0,5	16	57	47	25	20	0,8
27624-05-1020	27624-05-11020	20	20	10	10	M10	0,5	20	69	57	30	25	0,8
27624-05-1224	27624-05-11224	24	24	12	12	M12	0,5	24	82	68	35	30	0,8
27624-05-1428	27624-05-11428	27	27	14	14	M14	1	28	94	78	40	35	1,2
27624-05-1632	27624-05-11632	32	32	16	16	M16	1	32	108	89	45	40	1,2
27624-05-2040	27624-05-12040	40	40	20	20	M20	1	40	134	109	55	50	1,5

Clevis tang, steel

**Material:**

Steel 1.0718.

Version:

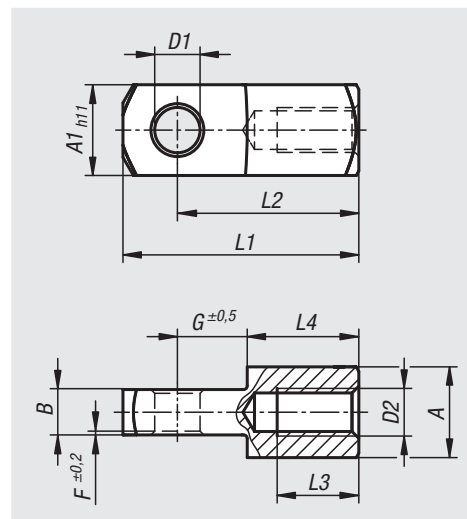
Electro zinc-plated.

Sample order:

nlm 27624-10-0406

Note:

The clevis tang can be combined with a DIN 71752 clevis.
These items are mainly used when connections are required to compensate for a directional shift in one direction.



Order No.	A	A1	B	D1	D2	F	G	L1	L2	L3	L4
27624-10-0406	8	8	4	4	M4	0,5	6	21	16	6	10
27624-10-0507	10	10	5	5	M5	0,5	7,5	26	20	8	12,5
27624-10-0609	12	12	6	6	M6	0,5	9	31	24	11	15
27624-10-0812	16	16	8	8	M8	0,5	12	42	32	14	20
27624-10-1015	20	20	10	10	M10	0,5	15	52	40	18	25
27624-10-1218	24	24	12	12	M12	0,5	18	62	48	22	30
27624-10-1421	27	27	14	14	M14	1	21	72	56	25	35
27624-10-1624	32	32	16	16	M16	1	24	83	64	30	40

Rod ends with ball bearing

external thread



Material:

Casing drop-forged steel, tempered.

Version:

Electro zinc-plated.

Bearing play 15 - 40 µm.

Sample order:

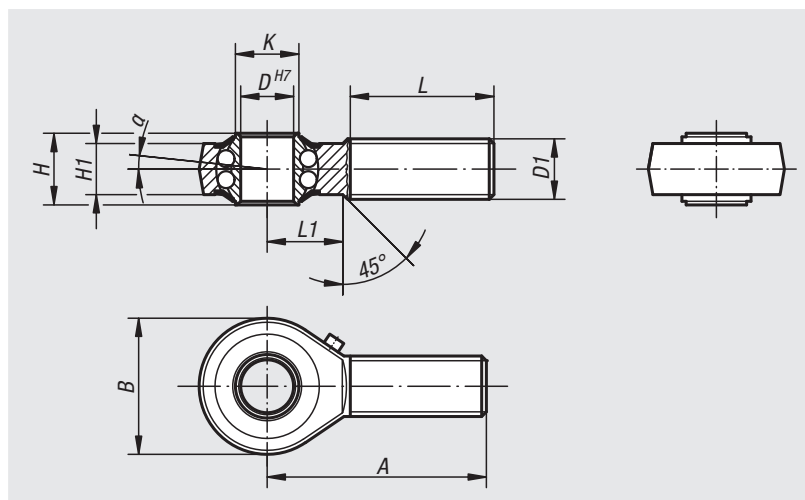
nln 27625-12

Note:

The hardened ball bearing is long-term greased and sealed with cover washers. The connection dimensions comply with DIN 648 series KA. Rod ends are primarily used where movement processes are transmitted and there is no exact alignment.

Up to D = 10 the rod ends have a DIN 3405/A flush type grease nipple.

From D = 12 they have a DIN 71412/A conical head type grease nipple.



Order No. rh thread	Order No. lh thread	D	D1	A	B	H	H1	K	L	L1	α	Dynamic load rating N	Static load rating N	Rev. limit n max. rpm
27625-06	27625-061	6	M6	36	20	9	6,75	9	22	12	8°	2750	650	1350
27625-08	27625-081	8	M8	42	24	12	9	10,5	25	15	8,5°	4000	1000	1300
27625-10	27625-101	10	M10	48	28	14	10,5	12	29	15	8°	4450	1450	1225
27625-12	27625-121	12	M12	54	32	16	12	14,5	33	19	7,5°	4950	1800	1125
27625-16	27625-161	16	M16	66	42	21	15	19	40	22	8°	6250	2350	975
27625-20	27625-201	20	M20x1,5	78	50	25	18	24,5	47	28	7°	7900	3450	825
27625-22	27625-221	22	M22x1,5	84	54	28	20	26	51	26	8°	9300	3980	725

Rod ends with ball bearing

internal thread



Material:

Casing drop-forged steel, tempered.

Version:

Electro zinc-plated.

Bearing play 15 - 40 µm.

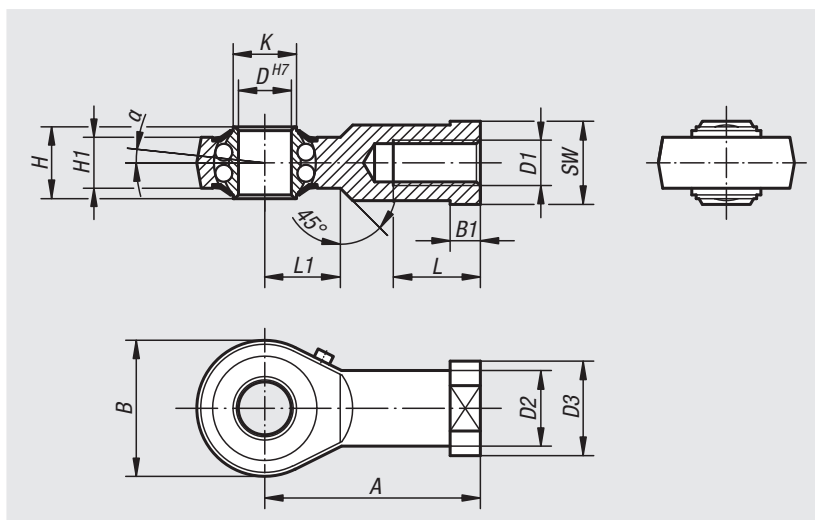
Sample order:

nlm 27626-16

Note:

The hardened ball bearing is long-term greased and sealed with cover washers. The connection dimensions comply with DIN 648 Form Series KA.

Up to D = 10 the rod ends have a DIN 3405/A flush type grease nipple.
From D = 12 they have a DIN 71412/A conical head type grease nipple.



Order No. rh thread	Order No. lh thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α	Dynamic load rating N	Static load rating N	Rev. limit n max. rpm
27626-06	27626-061	6	M6	10	13	30	20	5	9	6,75	9	12	10	11	8°	2750	650	1350
27626-08	27626-081	8	M8	12,5	16	36	24	5	12	9	10,5	16	12	14	8,5°	4000	1000	1300
27626-10	27626-101	10	M10	15	19	43	28	6,5	14	10,5	12	20	15	17	8°	4450	1450	1225
27626-12	27626-121	12	M12	17,5	22	50	32	6,5	16	12	14,5	22	16	19	7,5°	4950	1800	1125
27626-16	27626-161	16	M16	22	27	64	42	8	21	15	19	28	22	22	8°	6250	2350	975
27626-20	27626-201	20	M20x1,5	27,5	34	77	50	10	25	18	24,5	33	26	30	7°	7900	3450	825
27626-22	27626-221	22	M22x1,5	30	38	84	54	12	28	20	26	37	26	32	8°	9300	3980	725

Rod ends with plain bearing

external thread



Material:

Housing size (D) 5-12 turned steel.

From size (D) 16 forged steel.

Ball joint ball bearing steel, hardened, ground and polished.

Bearing shell steel with PTFE weave glued in.

Version:

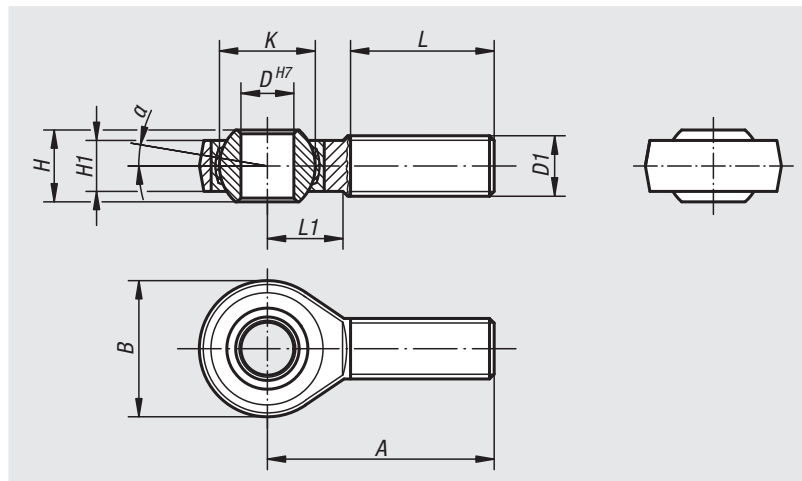
Electro zinc-plated.

Sample order:

nlm 27627-20

Note:

The rod end bearing is maintenance-free. The connection dimensions comply with DIN 648 series KA.



Order No. rh thread	Order No. lh thread	D	D1	A	B	H	H1	K	L	L1	α	Dynamic base loads kN	Static base loads kN
27627-05	27627-051	5	M5	33	18	8	6	11,11	20	9	13°	7,5	4,3
27627-06	27627-061	6	M6	36	20	9	6,75	12,7	22	12	13°	9,3	6
27627-08	27627-081	8	M8	42	24	12	9	15,87	25	15	13°	16,7	11
27627-10	27627-101	10	M10	48	28	14	10,5	19,05	29	15	13°	23,4	17,4
27627-12	27627-121	12	M12	54	32	16	12	22,22	33	19	13°	32	23,5
27627-16	27627-161	16	M16	66	42	21	15	28,57	40	22	15°	52,7	32
27627-20	27627-201	20	M20x1,5	78	50	25	18	34,92	47	28	15°	78,1	43,8
27627-22	27627-221	22	M22x1,5	84	54	28	20	38,1	51	26	15°	97,2	52,6

Rod ends igubal® with plain bearing

external thread



Material:

Housing igumid® G.

Bearing seat iglidur® W300.

Version:

black.

Sample order:

nlm 27627-105

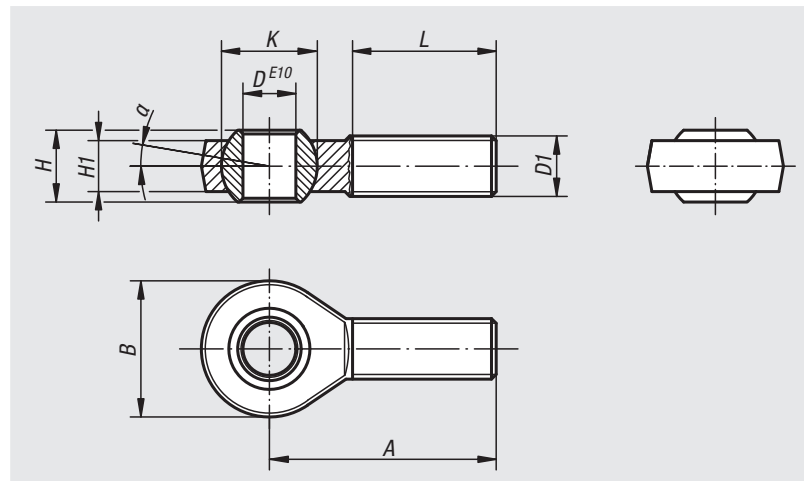
Note:

The rod end has very high rigidity under alternating stresses, it is insensitive to dirt, dust and lint, and is both corrosion and chemical resistant. It is ideal for rotary, oscillating and linear movements.

The connection dimensions comply with DIN ISO 12240 series K.

Tolerances:

The bore of the inner ring has an E10 tolerance. The shaft tolerance should be between h6 and h9.



Order No. rh thread	Order No. lh thread	D	D1	A	B	H	H1	K	L	α	Max. static tensile stress N short-term	Max. static tensile stress N long-term	Max. transverse stress N short-term	Max. transverse stress N long-term
27627-105	27627-1051	5	M5	33	18	8	6	11,1	19	15°	800	400	80	40
27627-106	27627-1061	6	M6	36	20	9	7	12,7	21	14,5°	1000	500	100	50
27627-108	27627-1081	8	M8	42	24	12	9	15,8	25	12,5°	1700	850	200	100
27627-110	27627-1101	10	M10	48	30	14	10,5	19	28	12,5°	2500	1250	300	150
27627-110125	27627-1101251	10	M10x1,25	48	30	14	10,5	19	28	12,5°	2500	1250	300	150
27627-112	27627-1121	12	M12	54	34	16	12	22,2	32	12,5°	2700	1350	400	200
27627-112125	27627-1121251	12	M12x1,25	54	34	16	12	22,2	32	12,5°	2700	1350	400	200
27627-114	27627-1141	14	M14	61	38	19	13,5	25,25	36	12,5°	3400	1700	700	350
27627-116	27627-1161	16	M16	66	42	21	15	28,3	37	11,5°	3900	1950	800	400
27627-116150	27627-1161501	16	M16x1,5	66	42	21	15	28,3	37	11,5°	3900	1950	800	400
27627-118150	27627-1181501	18	M18x1,5	72	46	23	16,5	31,35	41	11,5°	4200	2100	1000	500
27627-120	27627-1201	20	M20	78	50	25	18	34,9	45	11,5°	6000	3000	1300	650
27627-120150	27627-1201501	20	M20x1,5	78	50	25	18	34,9	45	11,5°	6000	3000	1300	650

Rod ends with plain bearing

internal thread



Material:

Housing size (D) 5-12 turned steel.

From size (D) 16 forged steel.

Ball joint ball bearing steel, hardened, ground and polished.

Bearing shell steel with PTFE weave glued in.

Version:

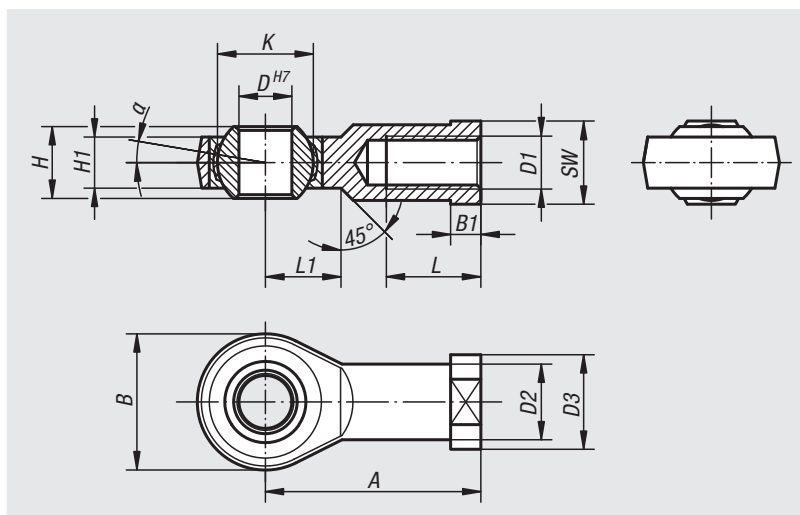
Electro zinc-plated.

Sample order:

nlm 27628-22

Note:

The rod end bearing is maintenance-free. The connection dimensions comply with DIN 648 series KJ.



Order No. rh thread	Order No. lh thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α	Dynamic base loads kN	Static base loads kN
27628-05	27628-051	5	M5	9	11	27	18	4	8	6	11,11	10	10	9	13°	7,5	8
27628-06	27628-061	6	M6	10	13	30	20	5	9	6,75	12,7	12	10	11	13°	9,3	8,9
27628-08	27628-081	8	M8	12,5	16	36	24	5	12	9	15,87	16	12	13	13°	16,7	14,1
27628-10	27628-101	10	M10	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	19,3
27628-10125	27628-101251	10	M10x1,25	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	19,3
27628-12	27628-121	12	M12	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	23,5
27628-12125	27628-121251	12	M12x1,25	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	23,5
27628-16	27628-161	16	M16	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	32
27628-1615	27628-16151	16	M16x1,5	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	32
27628-20	27628-201	20	M20x1,5	27,5	34	77	50	10	25	18	34,92	33	26	32	15°	78,1	43,8
27628-22	27628-221	22	M22x1,5	30	37	84	54	12	28	20	38,1	37	26	32	15°	97,2	52,6

Rod ends igubal® with plain bearing

internal thread



Material:

Housing igumid® G.
Bearing seat iglidur® W300.

Version:

black.

Sample order:

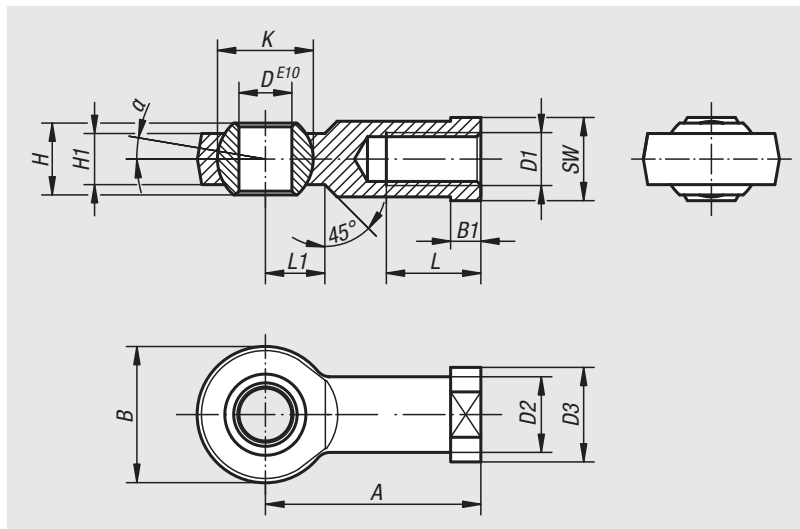
nln 27628-104

Note:

The rod end has very high rigidity under alternating stresses, it is insensitive to dirt, dust and lint, and is both corrosion and chemical resistant. It is ideal for rotary, oscillating and linear movements. The connection dimensions comply DIN ISO 12240 series K.

Tolerances:

The bore of the inner ring has an E10 tolerance. The shaft tolerance should be between h6 and h9.



Order No. rh thread	Order No. lh thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α
27628-104	27628-1041	5	M4	9	12	27	18	4	8	6	11,1	10	9	9	15°
27628-105	27628-1051	5	M5	9	12	27	18	4	8	6	11,1	10	9	9	15°
27628-106	27628-1061	6	M6	10	13	30	20	5	9	7	12,7	12	10	11	14,5°
27628-108	27628-1081	8	M8	13	16	36	24	5	12	9	15,8	16	12	14	12,5°
27628-110	27628-1101	10	M10	15	19	43	30	6,5	14	10,5	19	20	14	17	12,5°
27628-110125	27628-1101251	10	M10x1,25	15	19	43	30	6,5	14	10,5	19	20	14	17	12,5°
27628-112	27628-1121	12	M12	18	22	50	34	6,5	16	12	22,2	22	16	17	12,5°
27628-112125	27628-1121251	12	M12x1,25	18	22	50	34	6,5	16	12	22,2	22	16	19	12,5°
27628-114	27628-1141	14	M14	20	25	57	38	8	19	13,5	25,25	25	18	22	11,5°
27628-116	27628-1161	16	M16	22	27	64	42	8	21	15	28,3	28	21	22	11,5°
27628-116150	27628-1161501	16	M16x1,5	22	27	64	42	8	21	15	28,3	28	21	22	11,5°
27628-118150	27628-1181501	18	M18x1,5	25	31	71	46	10	23	16,5	31,35	32	23	27	11,5°
27628-120	27628-1201	20	M20	28	34	77	50	10	25	18	34,9	33	25	30	11,5°
27628-120150	27628-1201501	20	M20x1,5	28	34	77	50	10	25	18	34,9	33	25	30	11,5°

Order No. rh thread	Order No. lh thread	D1	Max. static tensile stress N short-term	Max. static tensile stress N long-term	Max. transverse stress N short-term	Max. transverse stress N long-term
27628-104	27628-1041	M4	1000	500	250	125
27628-105	27628-1051	M5	1000	500	250	125
27628-106	27628-1061	M6	1400	700	400	200
27628-108	27628-1081	M8	2100	1050	700	350
27628-110	27628-1101	M10	3100	1550	800	400
27628-110125	27628-1101251	M10x1,25	3100	1550	800	400
27628-112	27628-1121	M12	3600	1800	900	450
27628-112125	27628-1121251	M12x1,25	3600	1800	900	450
27628-114	27628-1141	M14	4000	2000	1000	500
27628-116	27628-1161	M16	4200	2100	1300	650
27628-116150	27628-1161501	M16x1,5	4200	2100	1300	650
27628-118150	27628-1181501	M18x1,5	4600	2300	1600	800
27628-120	27628-1201	M20	5400	2700	2100	1050
27628-120150	27628-1201501	M20x1,5	5400	2700	2100	1050

Rod ends with plain bearing

external thread, stainless steel



Material:

Housing forged 1.4057 stainless steel.
Ball joint 1.4034 hardened and ground.
Bearing shell 1.4571 stainless steel.

Version:

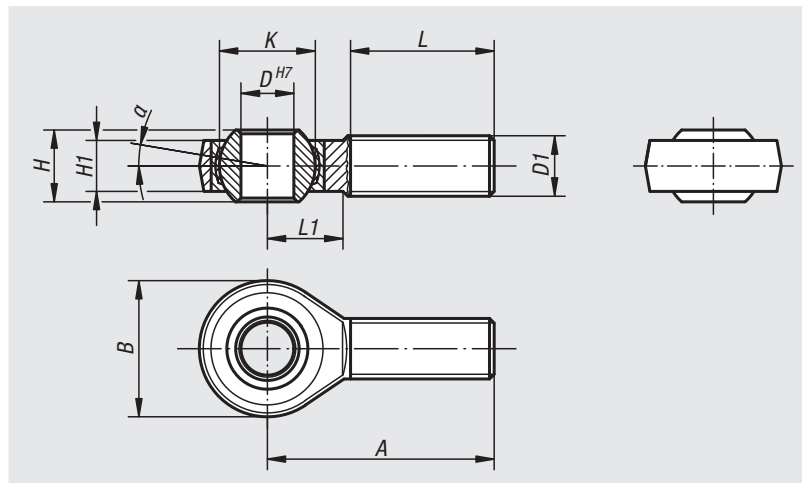
Polished.

Sample order:

nlm 27629-20

Note:

The rod end bearing is maintenance-free.
The connection dimensions comply with DIN 648 Form Series KA.



Order No. rh thread	Order No. lh thread	D	D1	A	B	H	H1	K	L	L1	α	Dynamic base loads kN	Static base loads kN
27629-05	27629-051	5	M5	33	18	8	6	11,11	20	9	13°	7,5	6,2
27629-06	27629-061	6	M6	36	20	9	6,75	12,7	22	12	13°	9,3	8,8
27629-08	27629-081	8	M8	42	24	12	9	15,87	25	15	13°	16,7	16,1
27629-10	27629-101	10	M10	48	28	14	10,5	19,05	29	15	13°	23,4	25,5
27629-12	27629-121	12	M12	54	32	16	12	22,22	33	19	13°	32	34,5
27629-16	27629-161	16	M16	66	42	21	15	28,57	40	22	15°	52,7	60,6
27629-20	27629-201	20	M20x1,5	78	50	25	18	34,92	47	28	15°	78,1	83,1
27629-22	27629-221	22	M22x1,5	84	54	28	20	38,1	51	26	15°	97,2	99,7

Rod ends with plain bearing

internal thread, stainless steel



Material:

Housing forged 1.4057 stainless steel.
Ball joint 1.4034 hardened and ground.
Bearing shell 1.4571 stainless steel.

Version:

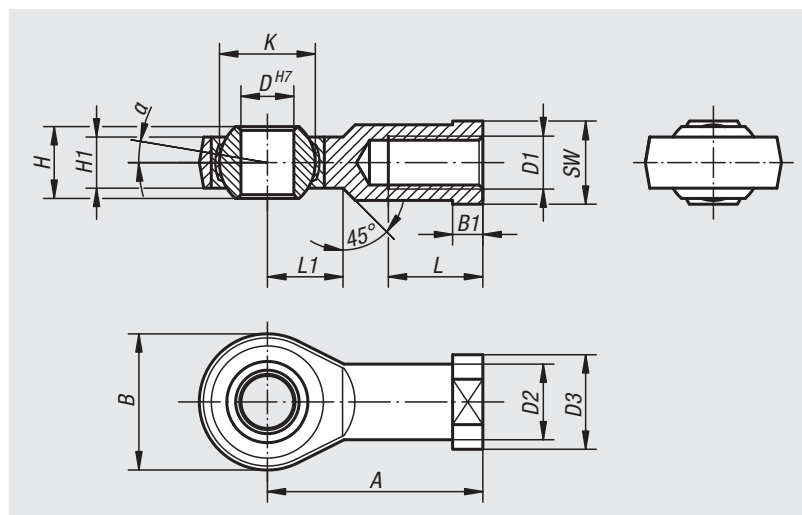
Polished.

Sample order:

nlm 27630-22

Note:

The rod end bearing is maintenance-free.
The connection dimensions comply with DIN 648 Form Series KJ.



Order No. rh thread	Order No. lh thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α	Dynamic base loads kN	Static base loads kN
27630-05	27630-051	5	M5	9	11	27	18	4	8	6	11,11	10	10	9	13°	7,5	11,8
27630-06	27630-061	6	M6	10	13	30	20	5	9	6,75	12,7	12	10	11	13°	9,3	13,1
27630-08	27630-081	8	M8	12,5	16	36	24	5	12	9	15,87	16	12	13	13°	16,7	20,7
27630-10	27630-101	10	M10	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	28,3
27630-10125	27630-101251	10	M10x1,25	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	28,3
27630-12	27630-121	12	M12	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	34,5
27630-12125	27630-121251	12	M12x1,25	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	34,5
27630-16	27630-161	16	M16	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	60,6
27630-1615	27630-16151	16	M16x1,5	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	60,6
27630-20	27630-201	20	M20x1,5	27,5	34	77	50	10	25	18	34,92	33	26	32	15°	78,1	83,1
27630-22	27630-221	22	M22x1,5	30	37	84	54	12	28	20	38,1	37	26	32	15°	97,2	99,7

Rod ends with plain bearing

external thread, narrow version



Material:

Housing size (D) 6-10 turned steel.

From size (D) 12 forged steel.

Ball joint ball bearing steel, hardened, ground, polished and hard chromed.

Bearing shell ball bearing steel with PTFE weave glued in.

Version:

Electro zinc-plated.

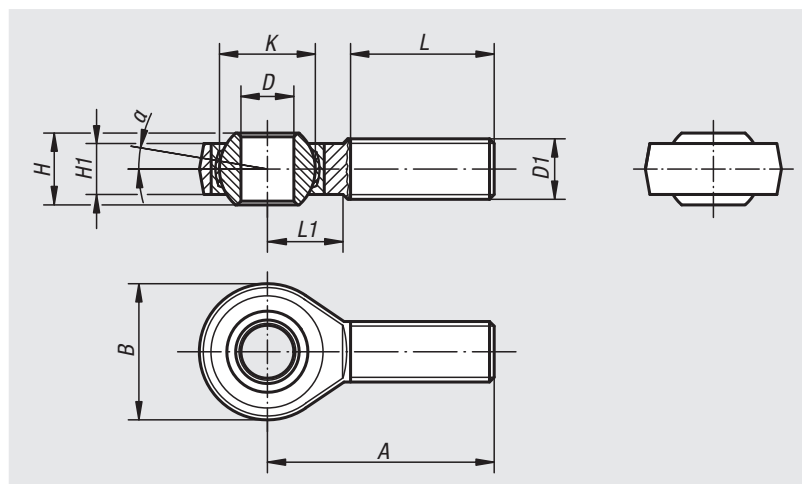
Sample order:

nlm 27631-20

Note:

The rod end bearing is maintenance-free.

The connection dimensions comply with DIN 648 Form Series E.



Order No. rh thread	Order No. lh thread	D	D1	A	B	H	H1	K	L	L1	α	Dynamic base loads kN	Static base loads kN
27631-06	27631-061	6 -0,008	M6	36	20	6	4,4	10	18	11	12°	3,6	8,2
27631-08	27631-081	8 -0,008	M8	42	24	8	6	13	22	12	12°	5,8	12,9
27631-10	27631-101	10 -0,008	M10	48	28	9	7	16	26	15	12°	8,6	17,6
27631-12	27631-121	12 -0,008	M12	54	34	10	8	18	28	15	8°	11,4	24,5
27631-16	27631-161	17 -0,008	M16	69	46	14	11	25	36	23	8°	22	45
27631-20	27631-201	20 -0,010	M20x1,5	78	53	16	13	29	43	25	8°	31,5	60

Rod ends with plain bearing

internal thread, narrow version



Material:

Housing size (D) 6-10 turned steel.

From size (D) 12 forged steel.

Ball joint ball bearing steel, hardened, ground, polished and hard chromed.

Bearing shell ball bearing steel with PTFE weave glued in.

Version:

Electro zinc-plated.

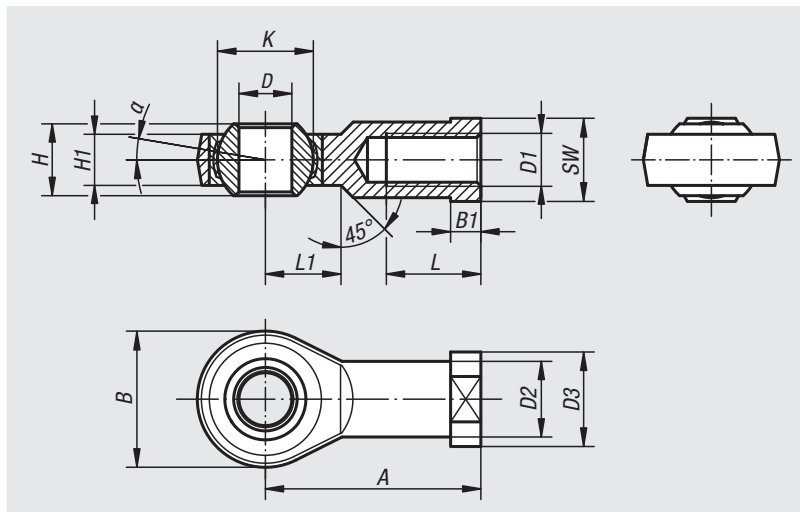
Sample order:

nlm 27632-12

Note:

The rod end bearing is maintenance-free.

The connection dimensions comply with DIN 648 Form Series E.



Order No. rh thread	Order No. lh thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α	Dynamic base loads kN	Static base loads kN
27632-06	27632-061	6 -0,008	M6	10	13	30	20	5	6	4,4	10	12	11	11	12°	3,6	8,2
27632-08	27632-081	8 -0,008	M8	12,5	16	36	24	5	8	6	13	16	12	14	12°	5,8	12,9
27632-10	27632-101	10 -0,008	M10	15	19	43	28	6,5	9	7	16	20	13	17	12°	8,6	17,6
27632-10125	27632-101251	10 -0,008	M10x1,25	15	19	43	28	6,5	9	7	16	20	13	17	12°	8,6	17,6
27632-12	27632-121	12 -0,008	M12	17,5	22	50	34	6,5	10	8	18	22	15	19	8°	11,4	24,5
27632-12125	27632-121251	12 -0,008	M12x1,25	17,5	22	50	34	6,5	10	8	18	22	15	19	8°	11,4	24,5
27632-16	27632-161	17 -0,008	M16	24	30	67	46	10	14	11	25	33	20	27	8°	22	45
27632-20	27632-201	20 -0,010	M20x1,5	27,5	35	77	53	10	16	13	29	38	23	32	8°	31,5	60

Spherical bearings K/E series

DIN ISO 12240-1


Material:

Bearing shell stainless steel 1.4571.

Ball joint stainless steel 1.4034.

Bearing surface PTFE/stainless steel insert.

Version:

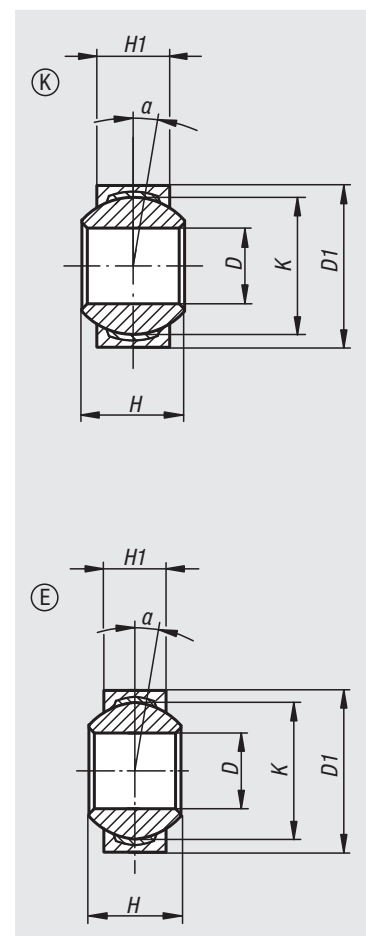
Ground, polished.

Sample order:

nlm 27632-02-10513

Note:

Suitable for high dynamic loads. The fitting dimensions comply with DIN ISO 12240-1 E/K.



Pivot bearings K series DIN ISO 12240-1

Order No.	D	D1	H	H1	K	α	Dynamic load rating N	Static load rating N	Speed limit rpm
27632-02-10513	5 H7	13 h7	8	6	11,11	13°	7500	12500	600
27632-02-10615	6 H7	15 h7	9	6,75	12,7	13°	9300	15500	530
27632-02-10818	8 H7	18 h7	12	9	15,87	14°	16700	27800	420
27632-02-11021	10 H7	21 h7	14	10,5	19,05	13°	23400	39000	350
27632-02-11224	12 H7	24,5 h7	16	12	22,22	13°	32000	34500	300
27632-02-11631	16 H7	31,5 h7	21	15	28,57	15°	52500	88000	230

Pivot bearings E series DIN ISO 12240-1

Order No.	D	D1	H	H1	K	α	Dynamic load rating N	Static load rating N
27632-02-20614	6 -0,008	14 -0,008	6	4	10	13°	4000	9000
27632-02-20816	8 -0,008	16 -0,008	8	5	13	15°	7000	15600
27632-02-21019	10 -0,008	19 -0,009	9	6	16	12°	10000	23400
27632-02-21222	12 -0,008	22 -0,009	10	7	18	11°	14000	32000
27632-02-21630	16 -0,008	30 -0,009	14	10	25	10°	39000	65000

Ball joints

DIN 71802


Material:

Steel or 1.4305 stainless steel

Version:

Trivalent passivated.

Stainless steel version bright.

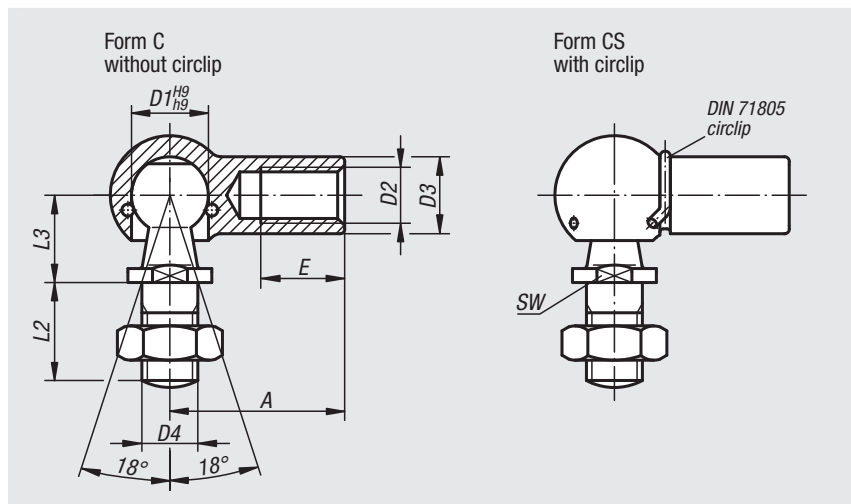
Sample order:

nlm 27650-08051

Note:

With snap ring.

Stainless steel version: protected against dust, dirt, water spray, vapours. For use in temperature range from -30 °C to +110 °C.
Seal, included.



Order No. rh thread	Order No. lh thread	Form	Main material	D1	D2	D3	D4	A	L2	L3	E	SW
27650-0805	27650-080501	C	steel	8	M5	8	M5	22	10,2	9	10,2	7
27650-1006	27650-100601	C	steel	10	M6	10	M6	25	12,5	11	11,5	8
27650-1308	27650-130801	C	steel	13	M8	13	M8	30	16,5	13	14	11
27650-1610	27650-161001	C	steel	16	M10	16	M10	35	20	16	15,5	13
27650-1612	27650-161201	C	steel	16	M12	16	M12	35	20	16	15,5	13
27650-1914	27650-191401	C	steel	19	M14x1,5	22	M14x1,5	45	28	20	21,5	16
27650-1916	27650-191601	C	steel	19	M16	22	M16	45	28	20	21,5	16

Order No. rh thread	Order No. lh thread	Form	Main material	D1	D2	D3	D4	A	L2	L3	E	SW
27650-080351	-	CS	steel	8	M3,5	8	M4	18	10,2	9	8	7
27650-08051	27650-080511	CS	steel	8	M5	8	M5	22	10,2	9	10,2	7
27650-10061	27650-100611	CS	steel	10	M6	10	M6	25	12,5	11	11,5	8
27650-13081	27650-130811	CS	steel	13	M8	13	M8	30	16,5	13	14	11
27650-16101	27650-161011	CS	steel	16	M10	16	M10	35	20	16	15,5	13
27650-16121	27650-161211	CS	steel	16	M12	16	M12	35	20	16	15,5	13
27650-19141	27650-191411	CS	steel	19	M14x1,5	22	M14x1,5	45	28	20	21,5	16
27650-19161	27650-191611	CS	steel	19	M16	22	M16	45	28	20	21,5	16
27650-08052	27650-080521	CS	stainless steel	8	M5	8	M5	22	10,2	9	10,2	7
27650-10062	27650-100621	CS	stainless steel	10	M6	10	M6	25	12,5	11	11,5	8
27650-13082	27650-130821	CS	stainless steel	13	M8	13	M8	30	16,5	13	14	11
27650-16102	27650-161021	CS	stainless steel	16	M10	16	M10	35	20	16	15,5	13
27650-16122	27650-161221	CS	stainless steel	16	M12	16	M12	35	20	16	15,5	13

Ball seats for ball joints

DIN 71805



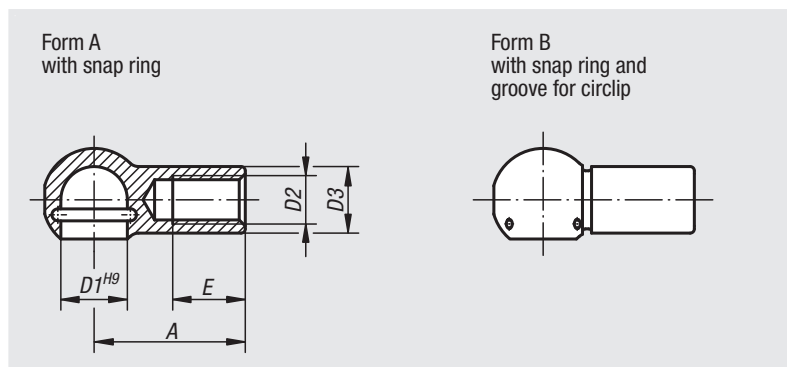
Material:
Steel.

Version:
Trivalent passivated.

Sample order:
nlm 27655-08051

Note:
The ball sockets are spare parts for DIN 71802 ball joints. See circlips for ball seats for suitable retaining rings for Form B.

On request:
Stainless steel ball seats.



Order No.	Form	D1	D2	D3	A	E
27655-0805	A	8	M5	8	22	10,2
27655-1006	A	10	M6	10	25	11,5
27655-1308	A	13	M8	13	30	14
27655-1610	A	16	M10	16	35	15,5
27655-1612	A	16	M12	16	35	15,5
27655-1914	A	19	M14x1,5	22	45	21,5
27655-1916	A	19	M16	22	45	21,5

Order No.	Form	D1	D2	D3	A	E
27655-080351	B	8	M3,5	8	18	8
27655-08051	B	8	M5	8	22	10,2
27655-10061	B	10	M6	10	25	11,5
27655-13081	B	13	M8	13	30	14
27655-16101	B	16	M10	16	35	15,5
27655-16121	B	16	M12	16	35	15,5
27655-19141	B	19	M14x1,5	22	45	21,5
27655-19161	B	19	M16	22	45	21,5

Ball studs DIN 71803

for DIN 71802 angle joints

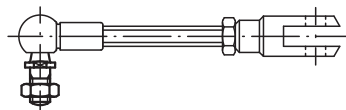
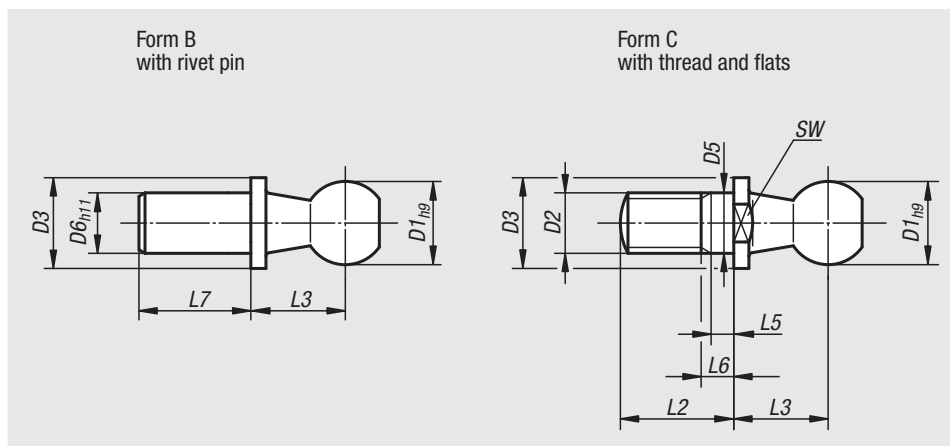


Material:
Steel.

Version:
Trivalent passivated.

Sample order:
nlm 27656-1006

Note:
The ball studs are spare parts for DIN 71802 ball joints.



Order No.	Form	Version	D1	D2	D3	D5	D6	L2	L3	L5 min.	L6 max.	L7	SW
27656-0840	B	short	8	-	8	-	5	-	9	-	-	4	-
27656-1045	B	short	10	-	10	-	6	-	11	-	-	4,5	-
27656-1305	B	short	13	-	13	-	8	-	13	-	-	5	-
27656-1606	B	short	16	-	16	-	10	-	16	-	-	6	-
27656-0875	B	long	8	-	8	-	5	-	9	-	-	7,5	-
27656-1080	B	long	10	-	10	-	6	-	11	-	-	8	-
27656-1310	B	long	13	-	13	-	8	-	13	-	-	10	-
27656-1613	B	long	16	-	16	-	10	-	16	-	-	13	-
27656-1918	B	long	19	-	19	-	14	-	20	-	-	18	-
27656-0805	C	-	8	M5	8	5	-	10,2	9	1,2	4	-	7
27656-1006	C	-	10	M6	10	6	-	12,5	11	1,2	4	-	8
27656-1308	C	-	13	M8	13	8	-	16,5	13	1,5	5,3	-	11
27656-1610	C	-	16	M10	16	10	-	20	16	2,5	7,3	-	13
27656-1612	C	-	16	M12	16	12	-	20	16	2,5	7,3	-	13
27656-1914	C	-	19	M14x1,5	19	14	-	28	20	5	10,8	-	16

Angle brackets


Material:

Steel or stainless steel 1.4404.

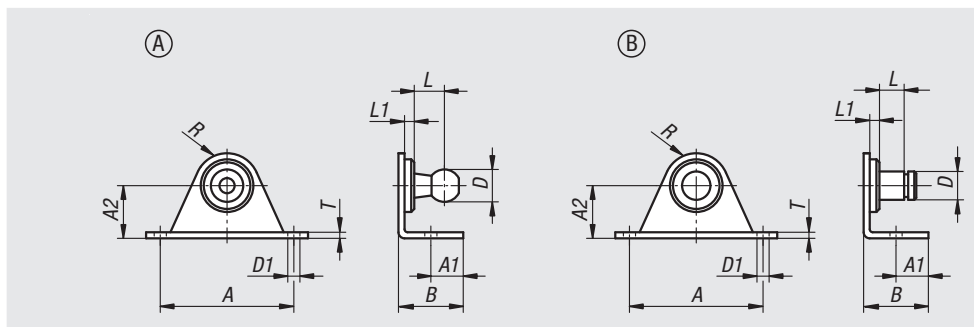
Version:

Steel electro zinc-plated.

Stainless steel bright.

Sample order:

nlm 27657-00810



Order No. steel	Order No. stainless steel	Form	A	A1	A2	B	D	D1	L	L1	R	T	Strength N
27657-00810	27657-008101	A	19	4,25	10	10	8	3,4	8	3	4	1,5	180
27657-00816	27657-008161	A	40	10	16	20	8	4,3	8	3	10	2	500
27657-01016	27657-010161	A	40	10	16	20	10	4,3	9	3	10	2	800
27657-01316	27657-013161	A	40	10	16	20	13	4,3	9,5	3	10	2	1200
27657-10410	27657-104101	B	19	4,25	10	10	4	3,4	5	2	4	1,5	180
27657-10610	27657-106101	B	19	4,25	10	10	6	3,4	7	4	4	1,5	180
27657-10616	27657-106161	B	40	10	16	20	6	4,3	7	4	10	2	500
27657-10816	27657-108161	B	40	10	16	20	8	4,3	11	5	10	2	1200

Side brackets


Material:

Steel or stainless steel 1.4404.

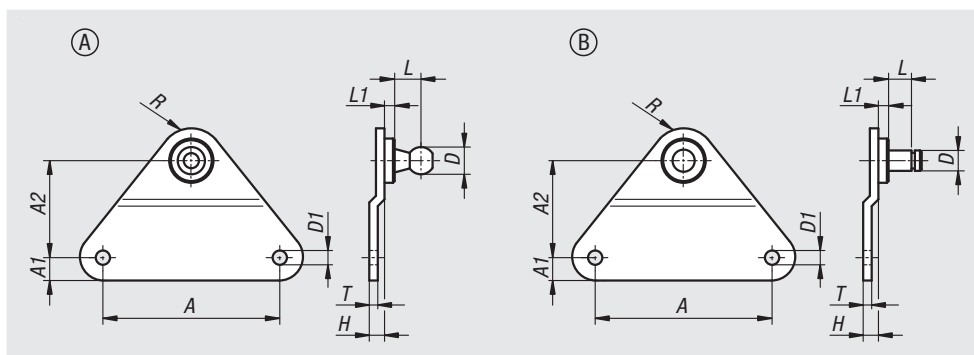
Version:

Steel electro zinc-plated.

Stainless steel bright.

Sample order:

nlm 27658-00815



Order No. steel	Order No. stainless steel	Form	A	A1	A2	D	D1	H	L	L1	R	T	Strength N
27658-00815	27658-008151	A	18	5	15,5	8	4,3	2,5	8	3	5	1,5	180
27658-00830	27658-008301	A	55	7	30	8	5,3	5	8	3	10	3	500
27658-01030	27658-010301	A	55	7	30	10	5,3	5	8	3	10	3	800
27658-01330	27658-013301	A	55	7	30	13	5,3	5	9,5	3	10	3	1200
27658-10415	27658-104151	B	18	5	15,5	4	4,3	2,5	4,5	2	5	1,5	180
27658-10615	27658-106151	B	18	5	15,5	6	4,3	2,5	6,5	4	5	1,5	180
27658-10630	27658-106301	B	55	7	30	6	5,3	5	7	4	10	3	500
27658-10830	27658-108301	B	55	7	30	8	5,3	5	11	5	10	3	1200

Round brackets


Material:

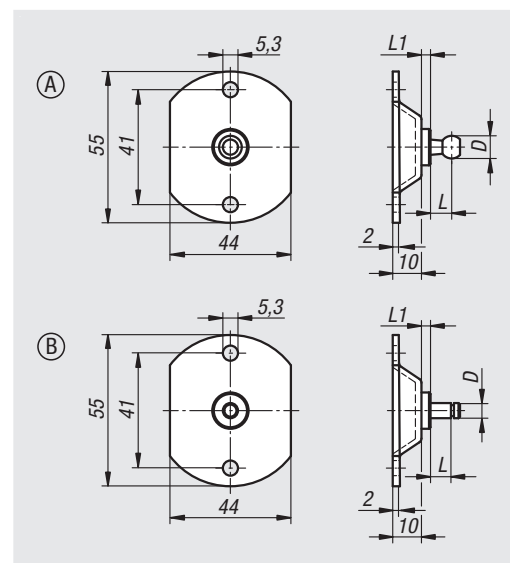
Steel or stainless steel 1.4404.

Version:

Steel electro zinc-plated.
Stainless steel bright.

Sample order:

nlm 27659-00855



Order No. steel	Order No. stainless steel	Form	D	L	L1	Strength N
27659-00855	27659-008551	A	8	8	3	500
27659-01055	27659-010551	A	10	9	3	800
27659-01355	27659-013551	A	13	9,5	3	1200
27659-10655	27659-106551	B	6	7	4	500
27659-10855	27659-108551	B	8	11	5	1200

Circlips for ball seats

DIN 71805


Material:

Spring steel

Version:

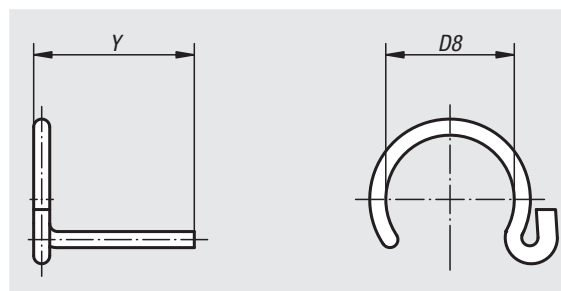
Trivalent passivated.

Sample order:

nlm 27660-08

Note:

For DIN 71805 ball seats.



Order No.	D8	Y	Suitable for ball sockets with D1
27660-08	7	12	8
27660-10	8,7	12,5	10
27660-13	11	15,7	13
27660-16	13	19	16
27660-19	20	24	19

Axial joints

similar to DIN 71802



Material:

Steel or 1.4305 stainless steel.

Stainless steel versions have Neoprene seals.

Version:

Trivalent passivated.

Stainless steel version bright.

Sample order:

nlm 27665-10

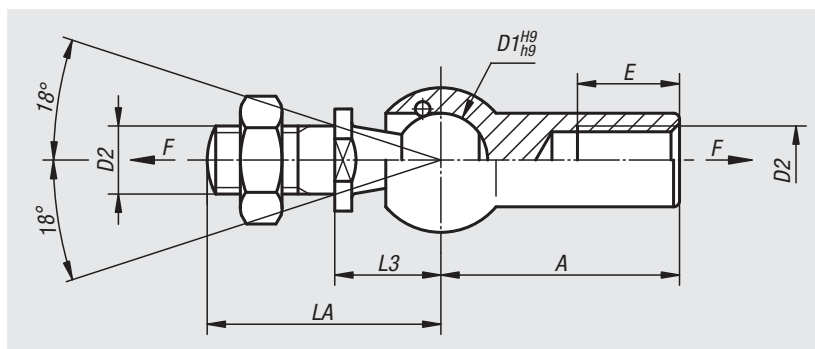
Note:

Protected against dust, dirt, water spray and vapour.

Applicable temperature range from -30 °C to +110 °C.

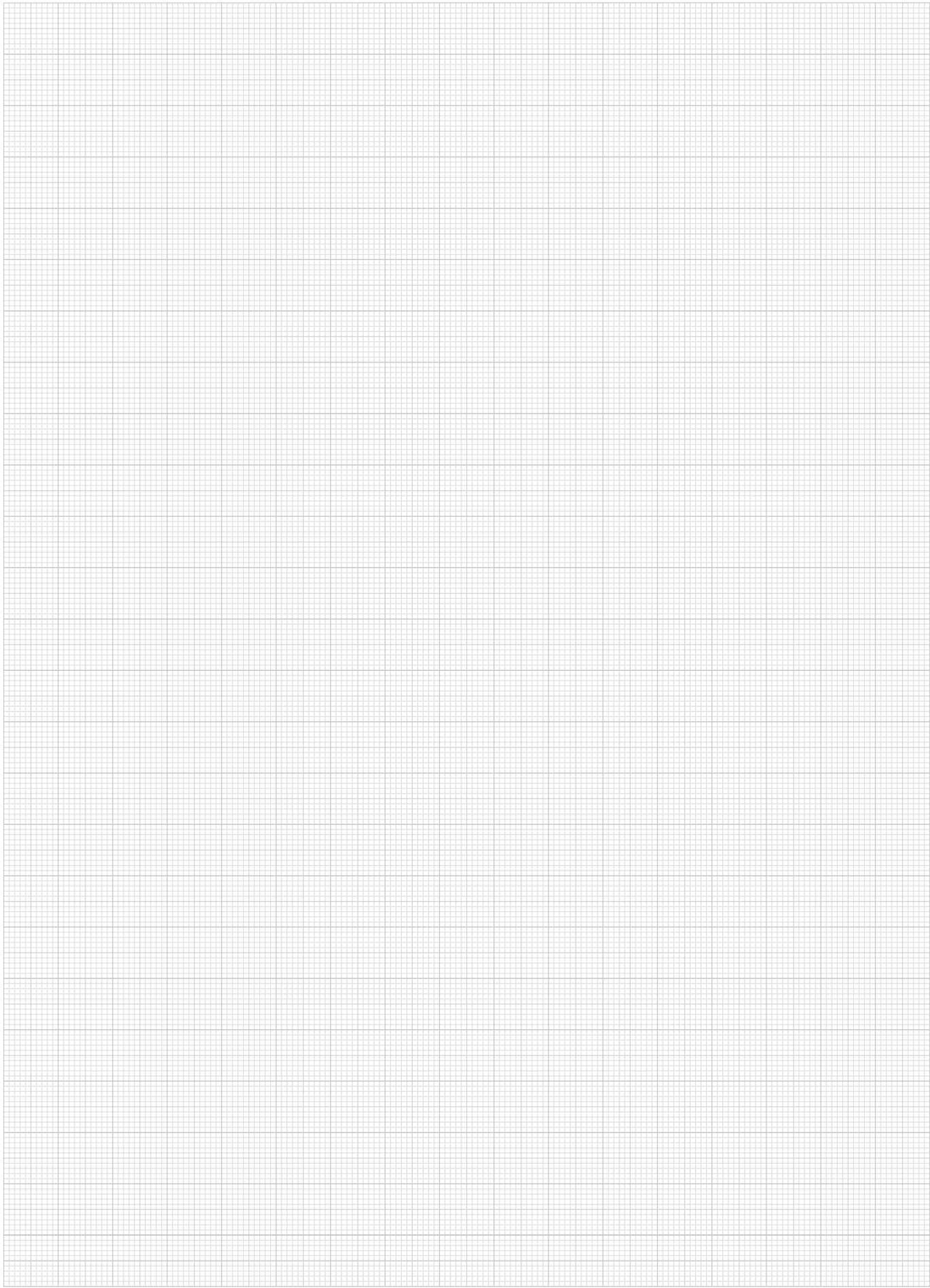
On request:

Axial joints with greater extraction force and left-hand thread available.



Order No.	Main material	D1	D2	A	LA	L3	E	Extraction force F N
27665-08	steel	8	M5	22	19,2	9	10,2	30
27665-10	steel	10	M6	25	23,5	11	11,5	40
27665-13	steel	13	M8	30	29,5	13	14	60
27665-16	steel	16	M10	35	36	16	15,5	80
27665-19	steel	19	M14x1,5	45	48	20	21,5	100
27665-108	stainless steel	8	M5	22	19,2	9	10,2	30
27665-110	stainless steel	10	M6	25	23,5	11	11,5	40
27665-113	stainless steel	13	M8	30	29,5	13	14	60
27665-116	stainless steel	16	M10	35	36	16	15,5	80

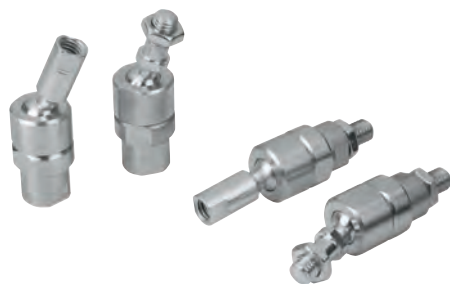
Notes



20000
21000
22000
23000
24000
26000
27000
28000
29000
31000
32000
33000

Axial joints for tractive forces

adjustable



Material:

Steel.

Version:

Ball thrust pins trivalent passivated.

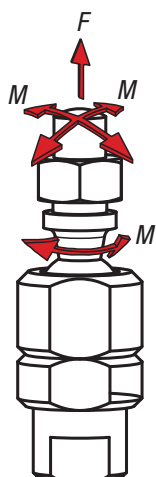
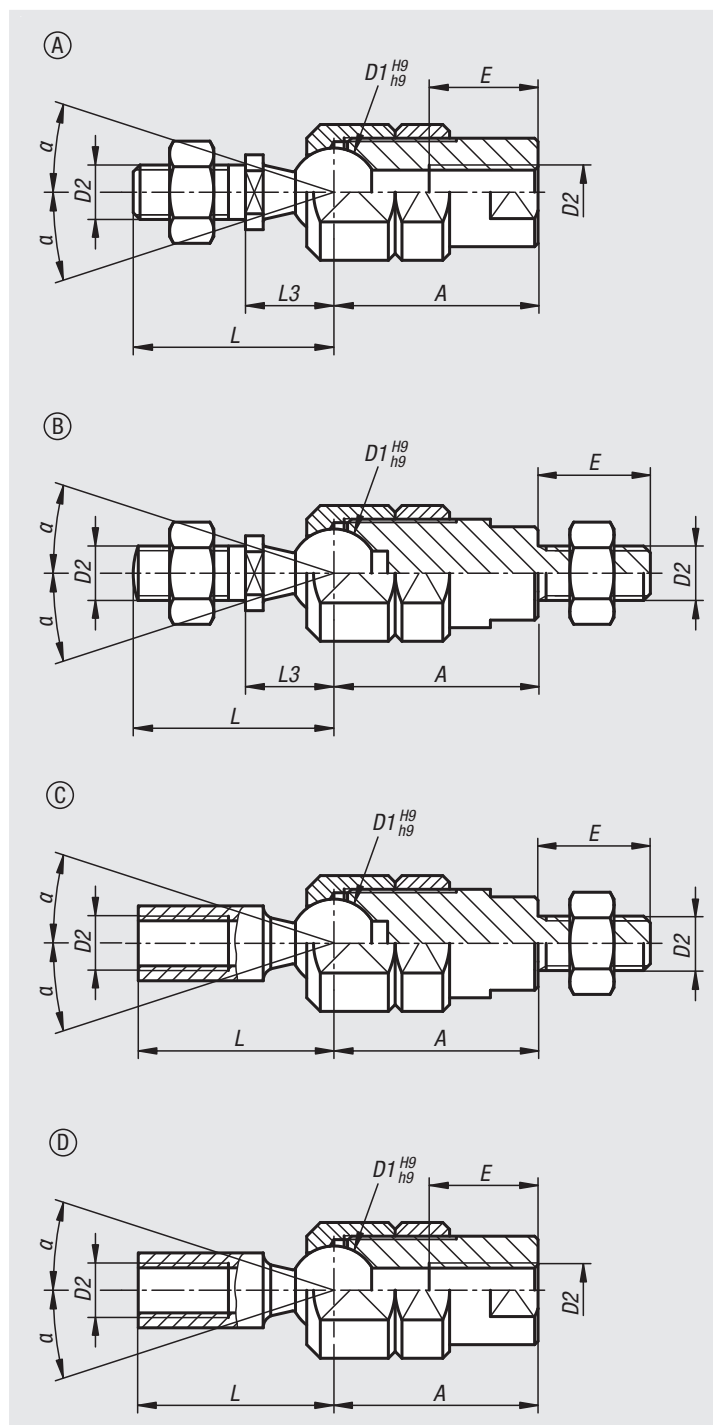
Ball seat and nuts electro zinc-plated.

Sample order:

nlm 27670-1006

Note:

Axial joint suitable for taking up tractive forces. The ball's movement can be controlled or fully locked in position using the clamping nut.



Axial joints for tractive forces

adjustable

Order No.	Form	D1	D2	A	L	L3	E	α	F kN	M Nm	Tightening torque max. Nm
27670-1006	A	10	M6	25	23,5	11	12	20°	2,5	5,2	12,4
27670-1308	A	13	M8	30	29,5	13	16	24°	5	8,8	13,2
27670-1610	A	16	M10	35	36	16	20	28°	7,5	14,5	16,4
27670-1612	A	16	M12	35	36	16	24	28°	7,5	14,5	16,4
27670-21006	B	10	M6	21	23,5	11	12	20°	2,5	5,2	12,4
27670-21308	B	13	M8	26	29,5	13	14	24°	5	8,8	13,2
27670-21610	B	16	M10	35	36	16	16	28°	7,5	14,5	16,4
27670-21612	B	16	M12	35	36	16	16	28°	7,5	14,5	16,4
27670-31006	C	10	M6	21	23,5	-	12	20°	2,5	5,2	12,4
27670-31308	C	13	M8	26	29,5	-	14	24°	5	8,8	13,2
27670-31610	C	16	M10	35	36	-	16	28°	7,5	14,5	16,4
27670-41006	D	10	M6	25	23,5	-	12	20°	2,5	5,2	12,4
27670-41308	D	13	M8	30	29,5	-	16	24°	5	8,8	13,2
27670-41610	D	16	M10	35	36	-	20	28°	7,5	14,5	16,4

Levelling sets

high version



Material:

Steel 1.7225.

Stainless steel 1.4305.

Version:

Seel version trivalent blue passivated.

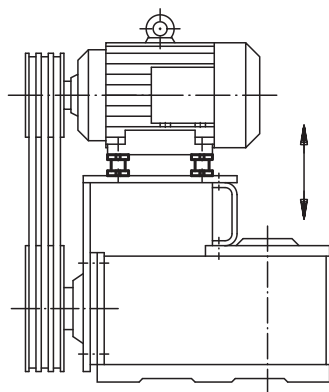
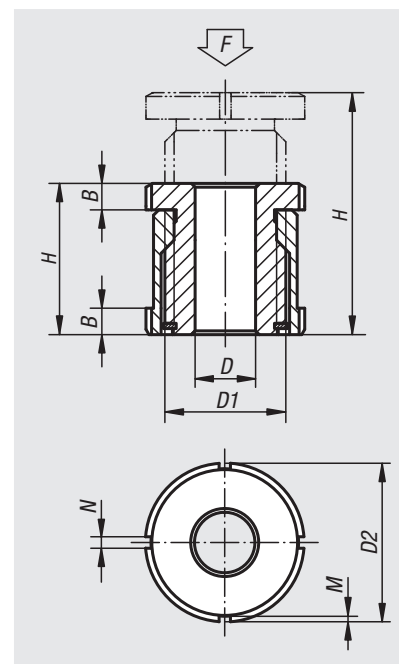
Stainless steel version bright.

Sample order:

nlm 27700-01505

Note:

Levelling sets are used for mounting, levelling and aligning motors, aggregates, drive units and assembly lines. They have a large adjustment range of 15 mm to 40 mm. Other sizes available on request.



Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	F kN
27700-01504	high carbon steel	4,5	M4	M15x1	25	28	43	5	4	2	40
27700-01505	high carbon steel	5,5	M5	M15x1	25	28	43	5	4	2	40
27700-01506	high carbon steel	6,6	M6	M15x1	25	28	43	5	4	2	40
27700-02006	high carbon steel	6,6	M6	M20x1	32	35	55	6	4	2	65
27700-02008	high carbon steel	9	M8	M20x1	32	35	55	6	4	2	65
27700-02010	high carbon steel	11	M10	M20x1	32	35	55	6	4	2	65
27700-02510	high carbon steel	11	M10	M30x1,5	45	42	67	7	5	2	120
27700-02512	high carbon steel	13,5	M12	M30x1,5	45	42	67	7	5	2	120
27700-02516	high carbon steel	17,5	M16	M30x1,5	45	42	67	7	5	2	120
27700-03216	high carbon steel	17,5	M16	M40x1,5	58	54	86	9	6	2,5	210
27700-03220	high carbon steel	22	M20	M40x1,5	58	54	86	9	6	2,5	210
27700-03224	high carbon steel	26	M24	M40x1,5	58	54	86	9	6	2,5	210
27700-04020	high carbon steel	22	M20	M50x1,5	70	66	106	11	6	2,5	330
27700-04024	high carbon steel	26	M24	M50x1,5	70	66	106	11	6	2,5	330
27700-04030	high carbon steel	33	M30	M50x1,5	70	66	106	11	6	2,5	330
27700-015041	stainless steel	4,5	M4	M15x1	25	28	43	5	4	2	27,1
27700-015051	stainless steel	5,5	M5	M15x1	25	28	43	5	4	2	27,1
27700-015061	stainless steel	6,6	M6	M15x1	25	28	43	5	4	2	27,1
27700-020061	stainless steel	6,6	M6	M20x1	32	35	55	6	4	2	43,4
27700-020081	stainless steel	9	M8	M20x1	32	35	55	6	4	2	43,4
27700-020101	stainless steel	11	M10	M20x1	32	35	55	6	4	2	43,4
27700-025101	stainless steel	11	M10	M30x1,5	45	42	67	7	5	2	84
27700-025121	stainless steel	13,5	M12	M30x1,5	45	42	67	7	5	2	84
27700-025161	stainless steel	17,5	M16	M30x1,5	45	42	67	7	5	2	84
27700-032161	stainless steel	17,5	M16	M40x1,5	58	54	86	9	6	2,5	148
27700-032201	stainless steel	22	M20	M40x1,5	58	54	86	9	6	2,5	148
27700-032241	stainless steel	26	M24	M40x1,5	58	54	86	9	6	2,5	148
27700-040201	stainless steel	22	M20	M50x1,5	70	66	106	11	6	2,5	225
27700-040241	stainless steel	26	M24	M50x1,5	70	66	106	11	6	2,5	225
27700-040301	stainless steel	33	M30	M50x1,5	70	66	106	11	6	2,5	225

Levelling sets

with locknut



Material:

Steel 1.7225.

Stainless steel 1.4305.

Version:

Seel version trivalent blue passivated.

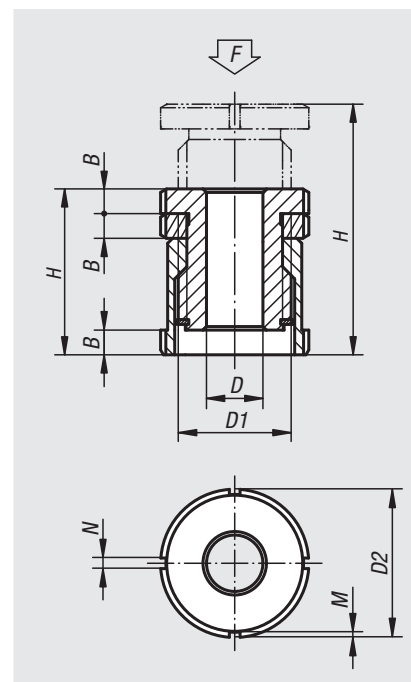
Stainless steel version bright.

Sample order:

nIm 27701-01004

Note:

Levelling sets are used for mounting, levelling and aligning motors, aggregates, drive units and assembly lines. The locknut locks the set height. Other sizes available on request.



Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	F kN
27701-01004	high carbon steel	4,5	M4	M15x1	25	33	43	5	4	2	40
27701-01005	high carbon steel	5,5	M5	M15x1	25	33	43	5	4	2	40
27701-01006	high carbon steel	6,6	M6	M15x1	25	33	43	5	4	2	40
27701-01406	high carbon steel	6,6	M6	M20x1	32	41	55	6	4	2	65
27701-01408	high carbon steel	9	M8	M20x1	32	41	55	6	4	2	65
27701-01410	high carbon steel	11	M10	M20x1	32	41	55	6	4	2	65
27701-01810	high carbon steel	11	M10	M30x1,5	45	49	67	7	5	2	120
27701-01812	high carbon steel	13,5	M12	M30x1,5	45	49	67	7	5	2	120
27701-01816	high carbon steel	17,5	M16	M30x1,5	45	49	67	7	5	2	120
27701-02316	high carbon steel	17,5	M16	M40x1,5	58	63	86	9	6	2,5	210
27701-02320	high carbon steel	22	M20	M40x1,5	58	63	86	9	6	2,5	210
27701-02324	high carbon steel	26	M24	M40x1,5	58	63	86	9	6	2,5	210
27701-02920	high carbon steel	22	M20	M50x1,5	70	77	106	11	6	2,5	330
27701-02924	high carbon steel	26	M24	M50x1,5	70	77	106	11	6	2,5	330
27701-02930	high carbon steel	33	M30	M50x1,5	70	77	106	11	6	2,5	330
27701-010041	stainless steel	4,5	M4	M15x1	25	33	43	5	4	2	27,1
27701-010051	stainless steel	5,5	M5	M15x1	25	33	43	5	4	2	27,1
27701-010061	stainless steel	6,6	M6	M15x1	25	33	43	5	4	2	27,1
27701-014061	stainless steel	6,6	M6	M20x1	32	41	55	6	4	2	43,4
27701-014081	stainless steel	9	M8	M20x1	32	41	55	6	4	2	43,4
27701-014101	stainless steel	11	M10	M20x1	32	41	55	6	4	2	43,4
27701-018101	stainless steel	11	M10	M30x1,5	45	49	67	7	5	2	84
27701-018121	stainless steel	13,5	M12	M30x1,5	45	49	67	7	5	2	84
27701-018161	stainless steel	17,5	M16	M30x1,5	45	49	67	7	5	2	84
27701-023161	stainless steel	17,5	M16	M40x1,5	58	63	86	9	6	2,5	148
27701-023201	stainless steel	22	M20	M40x1,5	58	63	86	9	6	2,5	148
27701-023241	stainless steel	26	M24	M40x1,5	58	63	86	9	6	2,5	148
27701-029201	stainless steel	22	M20	M50x1,5	70	77	106	11	6	2,5	225
27701-029241	stainless steel	26	M24	M50x1,5	70	77	106	11	6	2,5	225
27701-029301	stainless steel	33	M30	M50x1,5	70	77	106	11	6	2,5	225

Levelling sets

low version



Material:

Steel 1.7225.

Stainless steel 1.4305.

Version:

Steel version trivalent blue passivated.

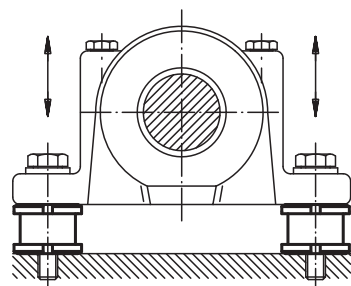
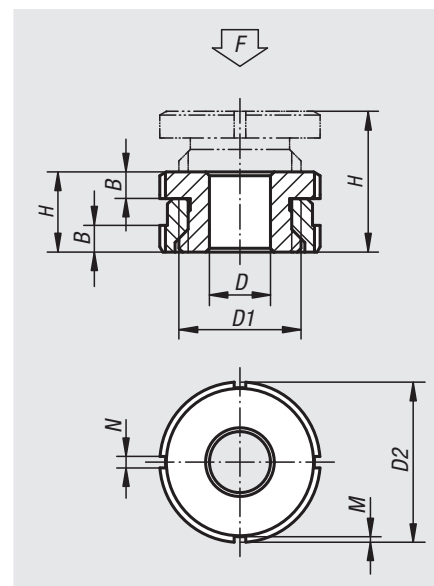
Stainless steel version bright.

Sample order:

nlm 27702-0404

Note:

Levelling sets are used for mounting, levelling and aligning motors, aggregates, drive units and assembly lines. This levelling set has an extremely low height. Single levelling sets can be set at several mounting points to achieve a precise and torsion-free alignment.



Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	F kN
27702-0404	high carbon steel	4,5	M4	M15x1	25	15	19	5	4	2	40
27702-0405	high carbon steel	5,5	M5	M15x1	25	15	19	5	4	2	40
27702-0406	high carbon steel	6,6	M6	M15x1	25	15	19	5	4	2	40
27702-0506	high carbon steel	6,6	M6	M20x1	32	18	23	6	4	2	65
27702-0508	high carbon steel	9	M8	M20x1	32	18	23	6	4	2	65
27702-0510	high carbon steel	11	M10	M20x1	32	18	23	6	4	2	65
27702-0710	high carbon steel	11	M10	M30x1,5	45	22	29	7	5	2	120
27702-0712	high carbon steel	13,5	M12	M30x1,5	45	22	29	7	5	2	120
27702-0716	high carbon steel	17,5	M16	M30x1,5	45	22	29	7	5	2	120
27702-0916	high carbon steel	17,5	M16	M40x1,5	58	28	37	9	6	2,5	210
27702-0920	high carbon steel	22	M20	M40x1,5	58	28	37	9	6	2,5	210
27702-0924	high carbon steel	26	M24	M40x1,5	58	28	37	9	6	2,5	210
27702-1020	high carbon steel	22	M20	M50x1,5	70	33	43	11	6	2,5	330
27702-1024	high carbon steel	26	M24	M50x1,5	70	33	43	11	6	2,5	330
27702-1030	high carbon steel	33	M30	M50x1,5	70	33	43	11	6	2,5	330
27702-04041	stainless steel	4,5	M4	M15x1	25	15	19	5	4	2	27,1
27702-04051	stainless steel	5,5	M5	M15x1	25	15	19	5	4	2	27,1
27702-04061	stainless steel	6,6	M6	M15x1	25	15	19	5	4	2	27,1
27702-05061	stainless steel	6,6	M6	M20x1	32	18	23	6	4	2	43,4
27702-05081	stainless steel	9	M8	M20x1	32	18	23	6	4	2	43,4
27702-05101	stainless steel	11	M10	M20x1	32	18	23	6	4	2	43,4
27702-07101	stainless steel	11	M10	M30x1,5	45	22	29	7	5	2	84
27702-07121	stainless steel	13,5	M12	M30x1,5	45	22	29	7	5	2	84
27702-07161	stainless steel	17,5	M16	M30x1,5	45	22	29	7	5	2	84
27702-09161	stainless steel	17,5	M16	M40x1,5	58	28	37	9	6	2,5	148
27702-09201	stainless steel	22	M20	M40x1,5	58	28	37	9	6	2,5	148
27702-09241	stainless steel	26	M24	M40x1,5	58	28	37	9	6	2,5	148
27702-10201	stainless steel	22	M20	M50x1,5	70	33	43	11	6	2,5	225
27702-10241	stainless steel	26	M24	M50x1,5	70	33	43	11	6	2,5	225
27702-10301	stainless steel	33	M30	M50x1,5	70	33	43	11	6	2,5	225

Levelling sets

low version with locknut



Material:

Steel 1.7225.

Stainless steel 1.4305.

Version:

Steel version trivalent blue passivated.

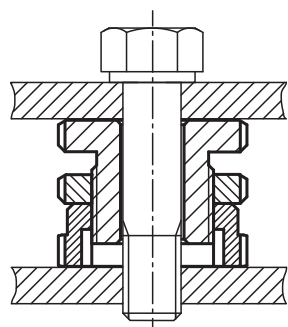
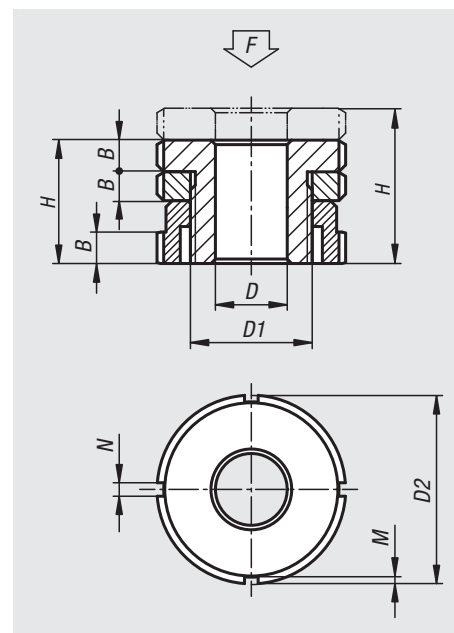
Stainless steel version bright.

Sample order:

nlm 27703-0404

Note:

These low version levelling sets with locknut are used to mount and align motors, aggregates, drive units and production lines. The advantage is the low height. Alignments can be made quickly and easily even with several levelling points. Distortion-free mounting is guaranteed. The locknut secures a prescribed adjustment.



Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	F kN
27703-0404	high carbon steel	4,5	M4	M15x1	25	20	24	5	4	2	40
27703-0405	high carbon steel	5,5	M5	M15x1	25	20	24	5	4	2	40
27703-0406	high carbon steel	6,6	M6	M15x1	25	20	24	5	4	2	40
27703-0506	high carbon steel	6,6	M6	M20x1	32	24	29	6	4	2	65
27703-0508	high carbon steel	9	M8	M20x1	32	24	29	6	4	2	65
27703-0510	high carbon steel	11	M10	M20x1	32	24	29	6	4	2	65
27703-0710	high carbon steel	11	M10	M30x1,5	45	29	36	7	5	2	120
27703-0712	high carbon steel	13,5	M12	M30x1,5	45	29	36	7	5	2	120
27703-0716	high carbon steel	17,5	M16	M30x1,5	45	29	36	7	5	2	120
27703-0916	high carbon steel	17,5	M16	M40x1,5	58	37	46	9	6	2,5	210
27703-0920	high carbon steel	22	M20	M40x1,5	58	37	46	9	6	2,5	210
27703-0924	high carbon steel	26	M24	M40x1,5	58	37	46	9	6	2,5	210
27703-1020	high carbon steel	22	M20	M50x1,5	70	44	54	11	6	2,5	330
27703-1024	high carbon steel	26	M24	M50x1,5	70	44	54	11	6	2,5	330
27703-1030	high carbon steel	33	M30	M50x1,5	70	44	54	11	6	2,5	330
27703-04041	stainless steel	4,5	M4	M15x1	25	20	24	5	4	2	27,1
27703-04051	stainless steel	5,5	M5	M15x1	25	20	24	5	4	2	27,1
27703-04061	stainless steel	6,6	M6	M15x1	25	20	24	5	4	2	27,1
27703-05061	stainless steel	6,6	M6	M20x1	32	24	29	6	4	2	43,4
27703-05081	stainless steel	9	M8	M20x1	32	24	29	6	4	2	43,4
27703-05101	stainless steel	11	M10	M20x1	32	24	29	6	4	2	43,4
27703-07101	stainless steel	11	M10	M30x1,5	45	29	36	7	5	2	84
27703-07121	stainless steel	13,5	M12	M30x1,5	45	29	36	7	5	2	84
27703-07161	stainless steel	17,5	M16	M30x1,5	45	29	36	7	5	2	84
27703-09161	stainless steel	17,5	M16	M40x1,5	58	37	46	9	6	2,5	148
27703-09201	stainless steel	22	M20	M40x1,5	58	37	46	9	6	2,5	148
27703-09241	stainless steel	26	M24	M40x1,5	58	37	46	9	6	2,5	148
27703-10201	stainless steel	22	M20	M50x1,5	70	44	54	11	6	2,5	225
27703-10241	stainless steel	26	M24	M50x1,5	70	44	54	11	6	2,5	225
27703-10301	stainless steel	33	M30	M50x1,5	70	44	54	11	6	2,5	225

Levelling sets

spherical washer


Material:

Steel 1.7225.

Stainless steel 1.4305.

Version:

Steel version trivalent blue passivated.

Stainless steel version bright.

Sample order:

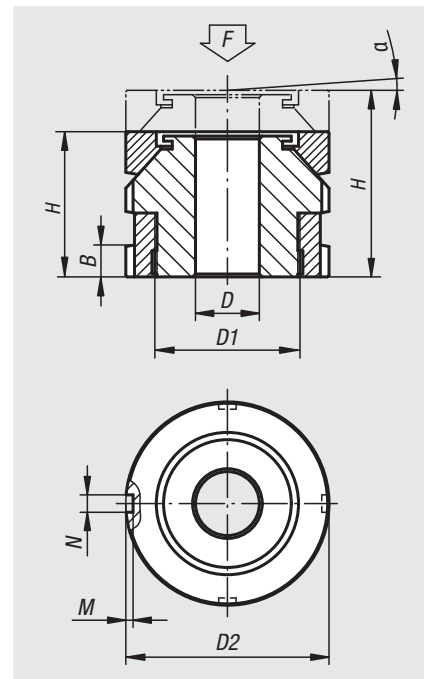
nlm 27705-0406

Note:

Levelling sets with spherical washers are used for mounting, levelling and aligning motors, aggregates, drive units and assembly lines. The spherical washer permits exact alignment when mounting inclined surfaces of up to 4°.

Accessories:

Spherical levelling washers 07460



Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	α	F kN
27705-0406	high carbon steel	6,6	M6	M15x1	25	22	26	5	4	2	4°	40
27705-0506	high carbon steel	6,6	M6	M20x1	32	26	31	6	4	2	4°	65
27705-0508	high carbon steel	9	M8	M20x1	32	26	31	6	4	2	4°	65
27705-0510	high carbon steel	11	M10	M20x1	32	26	31	6	4	2	4°	65
27705-0710	high carbon steel	11	M10	M30x1,5	45	34	41	7	5	2	4°	120
27705-0712	high carbon steel	13,5	M12	M30x1,5	45	34	41	7	5	2	4°	120
27705-0716	high carbon steel	17,5	M16	M30x1,5	45	34	41	7	5	2	4°	120
27705-0916	high carbon steel	17,5	M16	M40x1,5	58	44	53	9	6	2,5	4°	210
27705-0920	high carbon steel	22	M20	M40x1,5	58	44	53	9	6	2,5	4°	210
27705-0924	high carbon steel	26	M24	M40x1,5	58	44	53	9	6	2,5	4°	210
27705-1020	high carbon steel	22	M20	M50x1,5	70	50	60	11	6	2,5	4°	330
27705-1024	high carbon steel	26	M24	M50x1,5	70	50	60	11	6	2,5	4°	330
27705-1030	high carbon steel	33	M30	M50x1,5	70	50	60	11	6	2,5	4°	330
27705-1224	high carbon steel	26	M24	M60x2	80	56	68	11	7	3	4°	495
27705-1230	high carbon steel	33	M30	M60x2	80	56	68	11	7	3	4°	495
27705-04061	stainless steel	6,6	M6	M15x1	25	22	26	5	4	2	4°	27,1
27705-05061	stainless steel	6,6	M6	M20x1	32	26	31	6	4	2	4°	43,4
27705-05081	stainless steel	9	M8	M20x1	32	26	31	6	4	2	4°	43,4
27705-05101	stainless steel	11	M10	M20x1	32	26	31	6	4	2	4°	43,4
27705-07101	stainless steel	11	M10	M30x1,5	45	34	41	7	5	2	4°	84
27705-07121	stainless steel	13,5	M12	M30x1,5	45	34	41	7	5	2	4°	84
27705-07161	stainless steel	17,5	M16	M30x1,5	45	34	41	7	5	2	4°	84
27705-09161	stainless steel	17,5	M16	M40x1,5	58	44	53	9	6	2,5	4°	148
27705-09201	stainless steel	22	M20	M40x1,5	58	44	53	9	6	2,5	4°	148
27705-09241	stainless steel	26	M24	M40x1,5	58	44	53	9	6	2,5	4°	148
27705-10201	stainless steel	22	M20	M50x1,5	70	50	60	11	6	2,5	4°	225
27705-10241	stainless steel	26	M24	M50x1,5	70	50	60	11	6	2,5	4°	225
27705-10301	stainless steel	33	M30	M50x1,5	70	50	60	11	6	2,5	4°	225
27705-12241	stainless steel	26	M24	M60x2	80	56	68	11	7	3	4°	323
27705-12301	stainless steel	33	M30	M60x2	80	56	68	11	7	3	4°	323

Levelling sets

spherical washer with locknut



Material:

Steel 1.7225.

Stainless steel 1.4305.

Version:

Seel version trivalent blue passivated.

Stainless steel version bright.

Sample order:

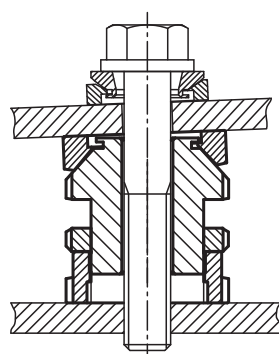
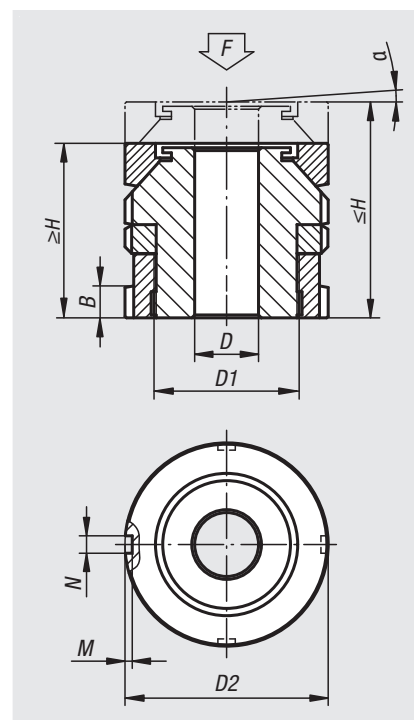
nlm 27706-0406

Note:

The spherical washer levelling set is used to mount and align motors, aggregates, drive units and production lines. The spherical washer gives exact alignment of sloping faces with an inclination of up to 4°. The locknut secures a prescribed adjustment.

Accessories:

Spherical levelling washers 07460



Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	α	F kN
27706-0406	high carbon steel	6,6	M6	M15x1	25	27	31	5	4	2	4°	40
27706-0506	high carbon steel	6,6	M6	M20x1	32	32	37	6	4	2	4°	65
27706-0508	high carbon steel	9	M8	M20x1	32	32	37	6	4	2	4°	65
27706-0510	high carbon steel	11	M10	M20x1	32	32	37	6	4	2	4°	65
27706-0710	high carbon steel	11	M10	M30x1,5	45	41	48	7	5	2	4°	120
27706-0712	high carbon steel	13,5	M12	M30x1,5	45	41	48	7	5	2	4°	120
27706-0716	high carbon steel	17,5	M16	M30x1,5	45	41	48	7	5	2	4°	120
27706-0916	high carbon steel	17,5	M16	M40x1,5	58	53	62	9	6	2,5	4°	210
27706-0920	high carbon steel	22	M20	M40x1,5	58	53	62	9	6	2,5	4°	210
27706-0924	high carbon steel	26	M24	M40x1,5	58	53	62	9	6	2,5	4°	210
27706-1020	high carbon steel	22	M20	M50x1,5	70	61	71	11	6	2,5	4°	330
27706-1024	high carbon steel	26	M24	M50x1,5	70	61	71	11	6	2,5	4°	330
27706-1030	high carbon steel	33	M30	M50x1,5	70	61	71	11	6	2,5	4°	330
27706-1224	high carbon steel	26	M24	M60x2	80	67	79	11	7	3	4°	495
27706-1230	high carbon steel	33	M30	M60x2	80	67	79	11	7	3	4°	495
27706-04061	stainless steel	6,6	M6	M15x1	25	27	31	5	4	2	4°	27,1
27706-05061	stainless steel	6,6	M6	M20x1	32	32	37	6	4	2	4°	43,4
27706-05081	stainless steel	9	M8	M20x1	32	32	37	6	4	2	4°	43,4
27706-05101	stainless steel	11	M10	M20x1	32	32	37	6	4	2	4°	43,4
27706-07101	stainless steel	11	M10	M30x1,5	45	41	48	7	5	2	4°	84
27706-07121	stainless steel	13,5	M12	M30x1,5	45	41	48	7	5	2	4°	84
27706-07161	stainless steel	17,5	M16	M30x1,5	45	41	48	7	5	2	4°	84
27706-09161	stainless steel	17,5	M16	M40x1,5	58	53	62	9	6	2,5	4°	148
27706-09201	stainless steel	22	M20	M40x1,5	58	53	62	9	6	2,5	4°	148
27706-09241	stainless steel	26	M24	M40x1,5	58	53	62	9	6	2,5	4°	148
27706-10201	stainless steel	22	M20	M50x1,5	70	61	71	11	6	2,5	4°	225
27706-10241	stainless steel	26	M24	M50x1,5	70	61	71	11	6	2,5	4°	225
27706-10301	stainless steel	33	M30	M50x1,5	70	61	71	11	6	2,5	4°	225
27706-12241	stainless steel	26	M24	M60x2	80	67	79	11	7	3	4°	323
27706-12301	stainless steel	33	M30	M60x2	80	67	79	11	7	3	4°	323

Levelling sets

spherical washer



Material:

Steel 1.7225.

Stainless steel 1.4305.

Version:

Seel version trivalent blue passivated.

Stainless steel version bright.

Sample order:

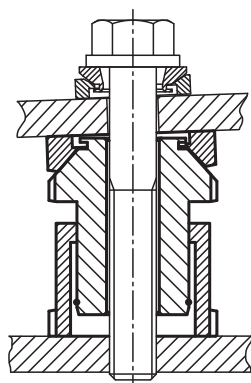
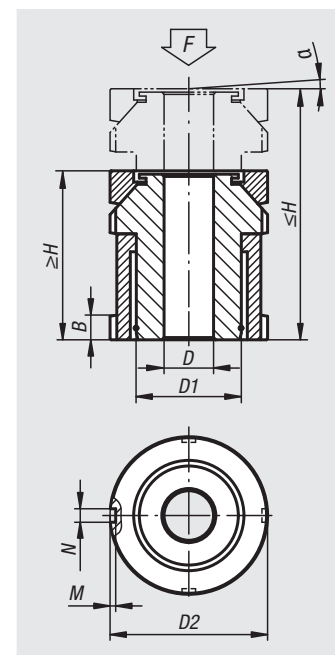
nIm 27707-1506

Note:

The spherical washer levelling sets are used to mount and align motors, aggregates, drive units and production lines. The spherical washer permits exact alignment when mounting sloping surfaces of up to 4°. These levellers have a long travel of 15 mm to 50 mm.

Accessories:

Spherical levelling washers 07460



Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	α	F kN
27707-1506	high carbon steel	6,6	M6	M15x1	25	35	50	5	4	2	4°	40
27707-2006	high carbon steel	6,6	M6	M20x1	32	43	63	6	4	2	4°	65
27707-2008	high carbon steel	9	M8	M20x1	32	43	63	6	4	2	4°	65
27707-2010	high carbon steel	11	M10	M20x1	32	43	63	6	4	2	4°	65
27707-2510	high carbon steel	11	M10	M30x1,5	45	54	79	7	5	2	4°	120
27707-2512	high carbon steel	13,5	M12	M30x1,5	45	54	79	7	5	2	4°	120
27707-2516	high carbon steel	17,5	M16	M30x1,5	45	54	79	7	5	2	4°	120
27707-3216	high carbon steel	17,5	M16	M40x1,5	58	70	102	9	6	2,5	4°	210
27707-3220	high carbon steel	22	M20	M40x1,5	58	70	102	9	6	2,5	4°	210
27707-3224	high carbon steel	26	M24	M40x1,5	58	70	102	9	6	2,5	4°	210
27707-4020	high carbon steel	22	M20	M50x1,5	70	83	123	11	6	2,5	4°	330
27707-4024	high carbon steel	26	M24	M50x1,5	70	83	123	11	6	2,5	4°	330
27707-4030	high carbon steel	33	M30	M50x1,5	70	83	123	11	6	2,5	4°	330
27707-5024	high carbon steel	26	M24	M60x2	80	94	144	11	7	3	4°	495
27707-5030	high carbon steel	33	M30	M60x2	80	94	144	11	7	3	4°	495
27707-15061	stainless steel	6,6	M6	M15x1	25	35	50	5	4	2	4°	27,1
27707-20061	stainless steel	6,6	M6	M20x1	32	43	63	6	4	2	4°	43,4
27707-20081	stainless steel	9	M8	M20x1	32	43	63	6	4	2	4°	43,4
27707-20101	stainless steel	11	M10	M20x1	32	43	63	6	4	2	4°	43,4
27707-25101	stainless steel	11	M10	M30x1,5	45	54	79	7	5	2	4°	84
27707-25121	stainless steel	13,5	M12	M30x1,5	45	54	79	7	5	2	4°	84
27707-25161	stainless steel	17,5	M16	M30x1,5	45	54	79	7	5	2	4°	84
27707-32161	stainless steel	17,5	M16	M40x1,5	58	70	102	9	6	2,5	4°	148
27707-32201	stainless steel	22	M20	M40x1,5	58	70	102	9	6	2,5	4°	148
27707-32241	stainless steel	26	M24	M40x1,5	58	70	102	9	6	2,5	4°	148
27707-40201	stainless steel	22	M20	M50x1,5	70	83	123	11	6	2,5	4°	225
27707-40241	stainless steel	26	M24	M50x1,5	70	83	123	11	6	2,5	4°	225
27707-40301	stainless steel	33	M30	M50x1,5	70	83	123	11	6	2,5	4°	225
27707-50241	stainless steel	26	M24	M60x2	80	94	144	11	7	3	4°	323
27707-50301	stainless steel	33	M30	M60x2	80	94	144	11	7	3	4°	323

Levelling sets

spherical washer with locknut



Material:

Steel 1.7225.

Stainless steel 1.4305.

Version:

Steel version trivalent blue passivated.

Stainless steel version bright.

Sample order:

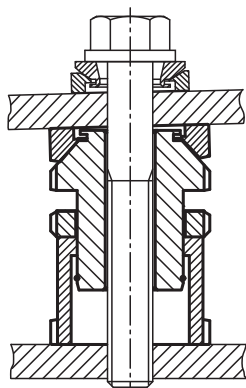
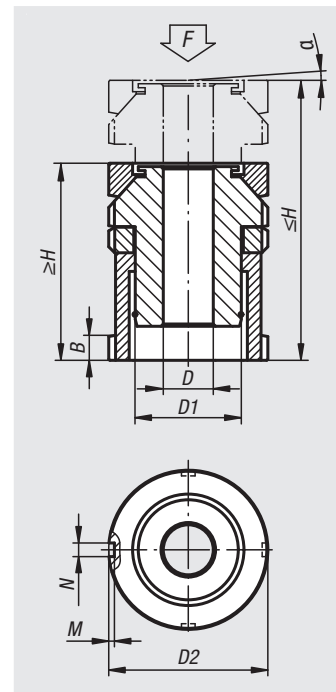
nln 27708-1006

Note:

The spherical washer levelling sets are used to mount and align motors, aggregates, drive units and production lines. The spherical washer permits exact alignment when mounting sloping surfaces of up to 4°. The locknut secures a prescribed adjustment. These levellers have a long travel of 10 mm to 39 mm.

Accessories:

Spherical levelling washers 07460



Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	α	F kN
27708-1006	high carbon steel	6,6	M6	M15x1	25	40	50	5	4	2	4°	40
27708-1406	high carbon steel	6,6	M6	M20x1	32	49	63	6	4	2	4°	65
27708-1408	high carbon steel	9	M8	M20x1	32	49	63	6	4	2	4°	65
27708-1410	high carbon steel	11	M10	M20x1	32	49	63	6	4	2	4°	65
27708-1810	high carbon steel	11	M10	M30x1,5	45	61	79	7	5	2	4°	120
27708-1812	high carbon steel	13,5	M12	M30x1,5	45	61	79	7	5	2	4°	120
27708-1816	high carbon steel	17,5	M16	M30x1,5	45	61	79	7	5	2	4°	120
27708-2316	high carbon steel	17,5	M16	M40x1,5	58	79	102	9	6	2,5	4°	210
27708-2320	high carbon steel	22	M20	M40x1,5	58	79	102	9	6	2,5	4°	210
27708-2324	high carbon steel	26	M24	M40x1,5	58	79	102	9	6	2,5	4°	210
27708-2920	high carbon steel	22	M20	M50x1,5	70	94	123	11	6	2,5	4°	330
27708-2924	high carbon steel	26	M24	M50x1,5	70	94	123	11	6	2,5	4°	330
27708-2930	high carbon steel	33	M30	M50x1,5	70	94	123	11	6	2,5	4°	330
27708-3924	high carbon steel	26	M24	M60x2	80	105	144	11	7	3	4°	495
27708-3930	high carbon steel	33	M30	M60x2	80	105	144	11	7	3	4°	495
27708-10061	stainless steel	6,6	M6	M15x1	25	40	50	5	4	2	4°	27,1
27708-14061	stainless steel	6,6	M6	M20x1	32	49	63	6	4	2	4°	43,4
27708-14081	stainless steel	9	M8	M20x1	32	49	63	6	4	2	4°	43,4
27708-14101	stainless steel	11	M10	M20x1	32	49	63	6	4	2	4°	43,4
27708-18101	stainless steel	11	M10	M30x1,5	45	61	79	7	5	2	4°	84
27708-18121	stainless steel	13,5	M12	M30x1,5	45	61	79	7	5	2	4°	84
27708-18161	stainless steel	17,5	M16	M30x1,5	45	61	79	7	5	2	4°	84
27708-23161	stainless steel	17,5	M16	M40x1,5	58	79	102	9	6	2,5	4°	148
27708-23201	stainless steel	22	M20	M40x1,5	58	79	102	9	6	2,5	4°	148
27708-23241	stainless steel	26	M24	M40x1,5	58	79	102	9	6	2,5	4°	148
27708-29201	stainless steel	22	M20	M50x1,5	70	94	123	11	6	2,5	4°	225
27708-29241	stainless steel	26	M24	M50x1,5	70	94	123	11	6	2,5	4°	225
27708-29301	stainless steel	33	M30	M50x1,5	70	94	123	11	6	2,5	4°	225
27708-39241	stainless steel	26	M24	M60x2	80	105	144	11	7	3	4°	323
27708-39301	stainless steel	33	M30	M60x2	80	105	144	11	7	3	4°	323

Levelling wedges, steel

free-standing


Material:

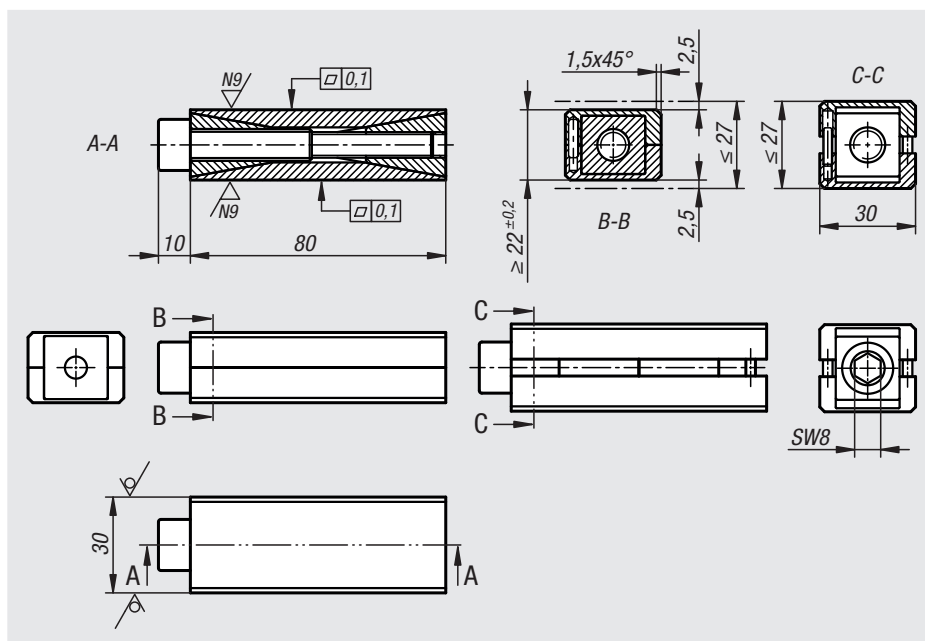
Steel.

Sample order:

nIm 27710-090030027

Note:

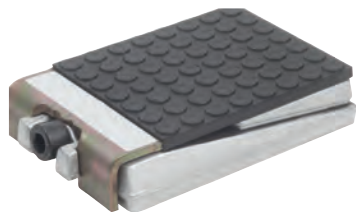
Adjustment load up to one tonne.



Order No.	Fine adjustment (mm)	Adj. load (kN)	Height adjustment per rotation (mm)
27710-090030027	5	70	0,353

Levelling wedges, steel

with non-slip insulating layer, free-standing



Material:

Steel, nitrile rubber.

Sample order:

nlm 27710-05-137092035

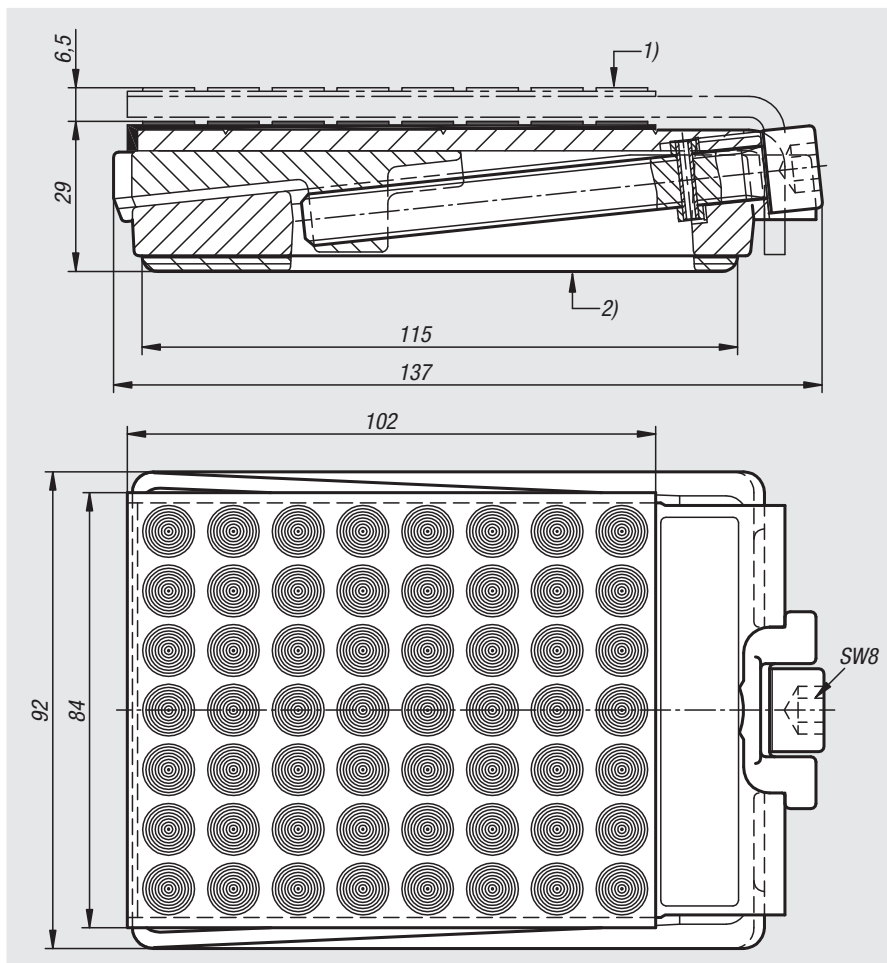
Note:

The low non-slip levelling wedge is suitable for loads of up to 2 tonnes.

The levelling wedge provides a large support surface with a nubbed structure made of nitrile with a hardness of Shore 80.

Using the flat angle of the wedges, the height of the levelling wedge can be adjusted by 0.15 mm per turn of the screw.

The vulcanized non-slip layer provides durable insulation from vibrations, noise, and corrosive media.



Order No.	Permanent load (kN)	Max. perm. load (kN)	Torque on setscrew (Nm)	Height adjustment per rotation (mm)
27710-05-137092035	20	35	20	0,15

Levelling wedges

with adhesive anchor



Material:

Steel, housing plastic, adhesive anchor steel.

Sample order:

nIm 27710-10-189120081

Note:

Suitable for adjustment loads up to 12 tonnes.

The heavy-duty anchors apply the centre double wedge principle.

With the centre double wedge principle, the machine support height is adjusted by two wedges instead of one.

The wedge movements are consistent and free of play.

With the double wedge, the force acting on the lifting mechanism is halved and the central support point always remains rigid and stable.

The spherical machine support on rounded discs can compensate for unevenness in the floor.

Horizontal movements are prevented by the centring sleeve which holds the floor bolt in the form of an adhesive anchor.

Application:

Example applications of the levelling wedge are for levelling heavy machine tools, high-speed milling machines, and transfer machines.

Attention:

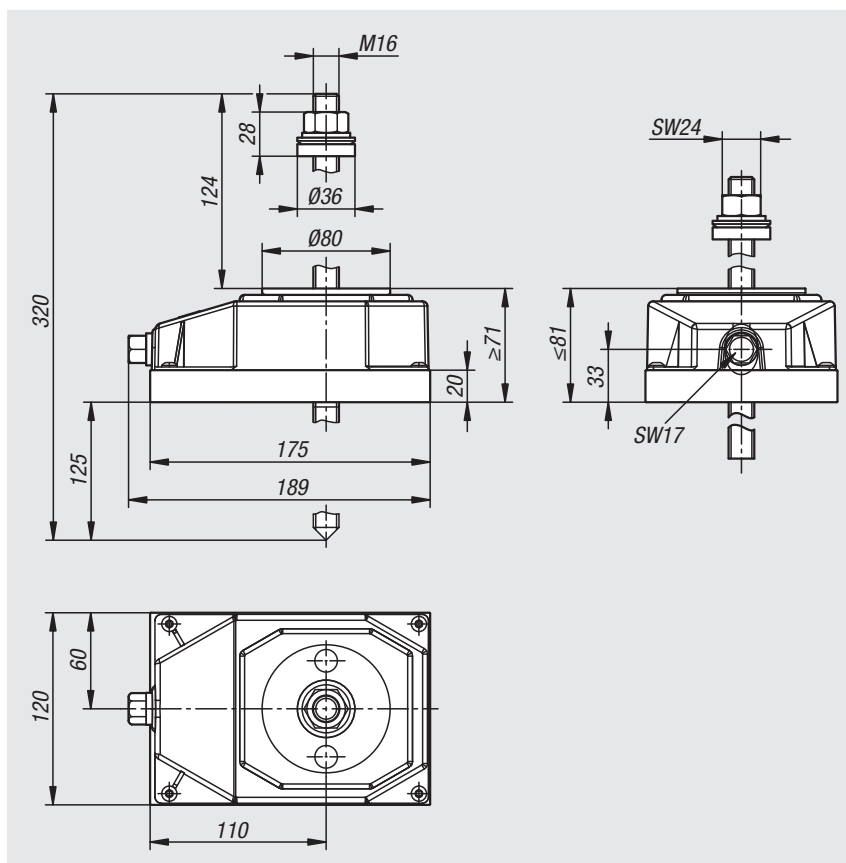
So as not to exceed the specified adjustment loads, it is not just the proportional machine load that has to be considered. The sum of all occurring loads must be taken into account. These include dynamic loads, alternating loads and the preloads on the Wellenstein expansion screw (anchor rod).

Supplied with:

Adhesive anchor M16X320 is supplied fully assembled.

Accessories:

Spacer washers 27710-30-00904 and 27710-30-00906



Order No.	Fine adjustment (mm)	Adj. load vertical (kN)	Torque on setscrew (Nm)	Height adjustment per rotation (mm)
27710-10-189120081	10	120	72	0,546

Levelling wedges, steel

free-standing



Material:

Steel, plastic, nitrile rubber.

Sample order:

nIm 27710-15-189120086

Note:

Suitable for adjustment loads of up to 15 tonnes.

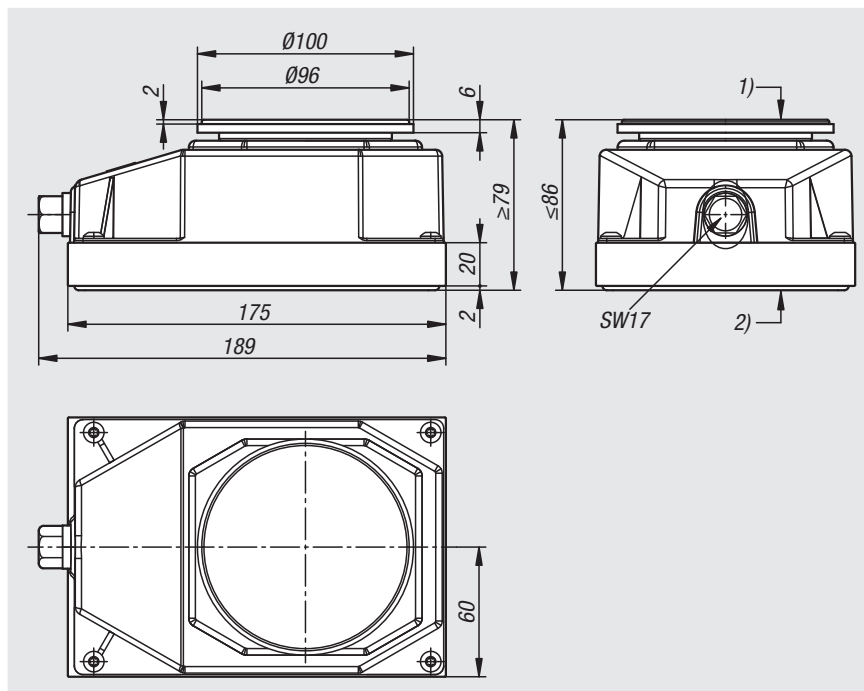
The heavy-duty anchors apply the centre double wedge principle.

With the centre double wedge principle, the machine support height is adjusted by two wedges instead of one. The wedge movements are consistent and free of play. With the double wedge, the force acting on the lifting mechanism is halved.

The spherical machine support on vulcanised nitrile rubber compensates for unevenness in the floor, acts as slip protection, is oil-resistant, protects the machine from undesired vibrations, provides insulation from structure-borne noise, and is resistant to aggressive media. The filler-free rubber compound is not deformed or compressed by the static load of the machine.

Attention:

So as not to exceed the specified adjustment loads, it is not just the proportional machine load that has to be considered. The sum of all occurring loads must be taken into account. These include dynamic loads, alternating loads and the preloads on the Wellenstein expansion screw (anchor rod).



Order No.	Fine adjustment (mm)	Adj. load (kN)	Torque on setscrew (Nm)	Height adjustment per rotation (mm)
27710-15-189120086	7	150	60	0,375

Levelling wedges, aluminium

with adhesive anchor


Material:

Housing aluminium, adhesive anchor steel.

Sample order:

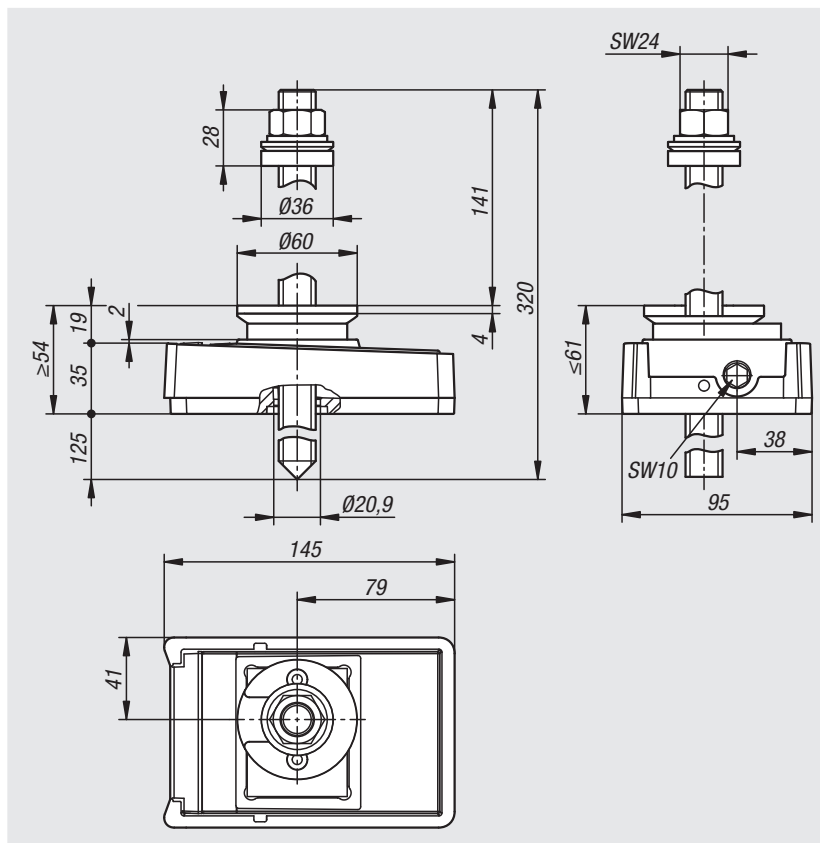
nIm 27710-20-145095061

Note:

Suitable for adjustment loads of up to 7 tonnes. The levelling wedges can be used for fastening machines or peripheral devices. The levelling wedges are anchored to the floor using an adhesive anchor.

Supplied with:

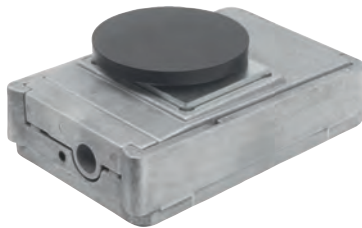
Adhesive anchor M16X320 is supplied fully assembled.
Spacer washer (27710-30-10604) supplied.



Order No.	Fine adjustment (mm)	Adj. load (kN)	Torque on setscrew (Nm)	Height adjustment per rotation (mm)
27710-20-145095061	7	70	35	0,275

Levelling wedges, aluminium

with non-slip insulating layer, free-standing



Material:

Housing aluminium, support surface nitrile rubber.

Version:

Free-standing.

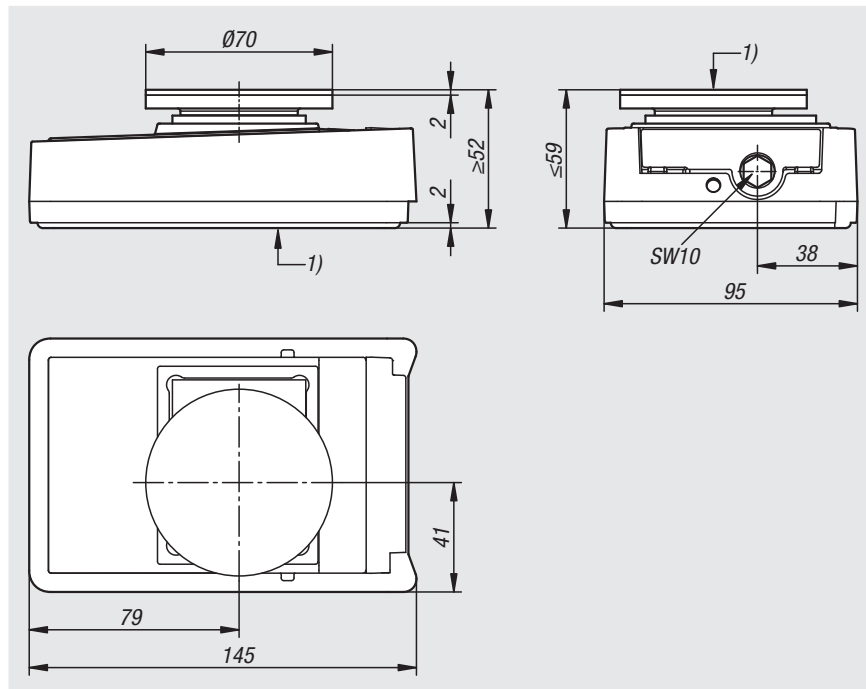
Sample order:

nIm 27710-25-145095059

Note:

The low non-slip levelling wedges are suitable for loads of up to 7 tonnes. The spherical, vulcanised nitrile rubber support surface with a hardness of Shore 80 (1) can compensate for any unevenness.

The vulcanised Shore 80 nitrile rubber anti-slip face (1) provides permanent insulation from vibrations, noise, and corrosive media.



Order No.	Fine adjustment (mm)	Adj. load (kN)	Torque on setscrew (Nm)	Height adjustment per rotation (mm)
27710-25-145095059	7	70	35	0,275

Spacer washers, steel or stainless steel

**Material:**

Steel or stainless steel.

Version:

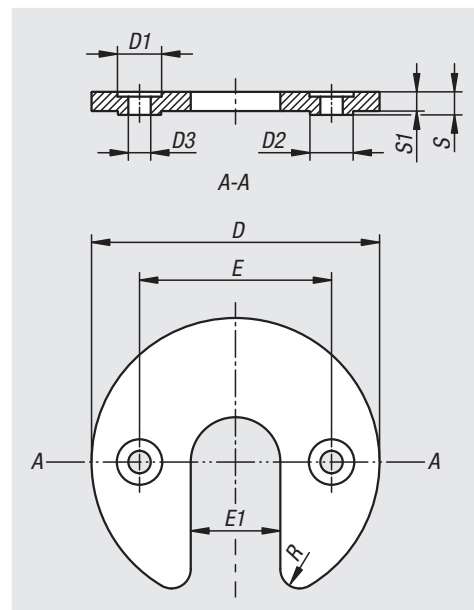
Steel electro zinc-plated.

Sample order:

nlm 27710-30-00904

Note:

The spacer washers can be stacked together and subsequently installed.



Order No.	Main material	D	D1	D2	D3	E	E1	S	S1	R
27710-30-00904	steel	90	13,8	13,5±0,1	5,5	60	28	5,2	4	6
27710-30-00906	steel	90	13,8	13,5±0,1	7	60	28	7,2	6	6
27710-30-10604	stainless steel	60	10	9,7	5	40	22	5,2	4	2,5

Cup elements

type H2



Material:

Metal parts, steel, grade 5.6.

Natural rubber, hardness Shore 40 or 60 A.

Version:

Steel electro zinc-plated.

Sample order:

nln 27750-03502040

Note:

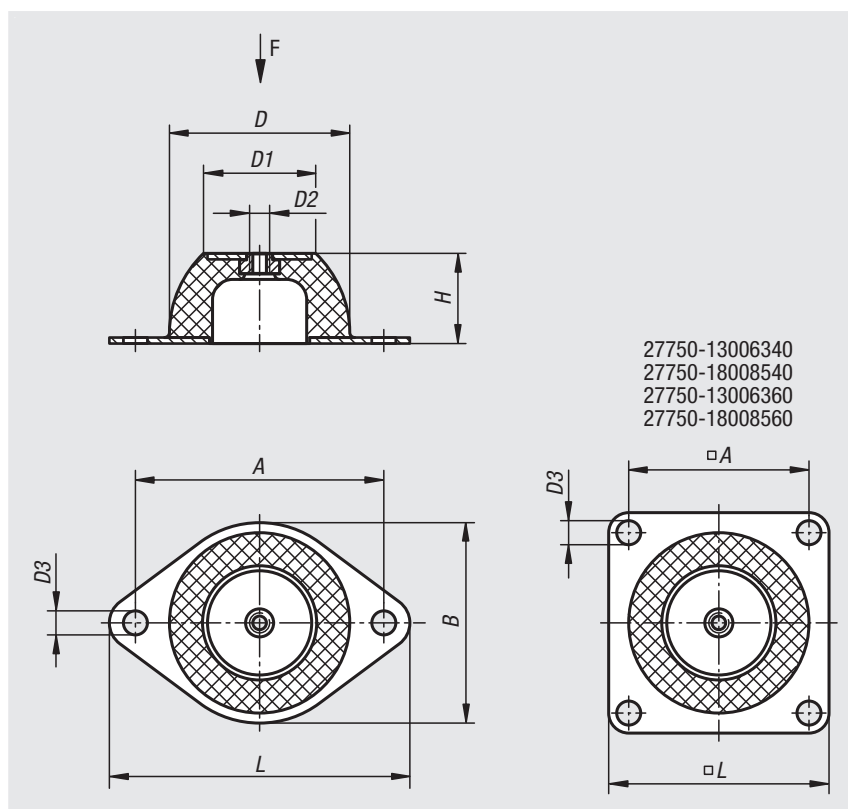
The cup elements are highly elastic both in radial and in axial direction and therefore offer an outstanding impact isolation.

The special shaping of the cup elements allows isolation of sound and vibrations of machines and assemblies with a low natural frequency. They are especially suitable for supporting sensitive instruments and small devices.

The elements must not be subjected to tensile stress.

Temperature range:

-30 °C to +80 °C



Order No.	Version	A	B	D	D1	D2	D3	H	L	Load rating max. kN
27750-03502040	Shore 40A	50	43	35	18	M6	7	20	64	0,034
27750-05002540	Shore 40A	66	56	50	33	M8	8	25	85	0,2
27750-07003540	Shore 40A	92	76	70	45	M10	10	35	114	0,39
27750-08504040	Shore 40A	110	96	85	53	M10	11,5	40	136	0,68
27750-09004540	Shore 40A	124	101	90	58	M10	11,5	45	151	1,28
27750-13006340	Shore 40A	120	-	130	78	M12	14,5	63	150	2,7
27750-18008540	Shore 40A	160	-	180	100	M16	14,5	85	200	3,7
27750-03502060	Shore 60A	50	43	35	18	M6	7	20	64	0,09
27750-05002560	Shore 60A	66	56	50	33	M8	8	25	85	0,49
27750-07003560	Shore 60A	92	76	70	45	M10	10	35	114	0,78
27750-08504060	Shore 60A	110	96	85	53	M10	11,5	40	136	1,45
27750-09004560	Shore 60A	124	101	90	58	M10	11,5	45	151	2,15
27750-13006360	Shore 60A	120	-	130	78	M12	14,5	63	150	4,9
27750-18008560	Shore 60A	160	-	180	100	M16	14,5	85	200	7,35

Machine feet


Material:

Metal parts, steel grade 5.6.
Elastomer, natural rubber,
medium hardness, Shore 60.

Version:

Steel electro zinc-plated.

Sample order:

nIm 27760-062060

Note:

These machine feet have proven themselves to be universally applicable elements for the elastic support of all types of machine. They are commonly used wherever large horizontal movements are to be avoided. The horizontal rigidity is higher in all directions than the vertical rigidity. If used correctly they are excellent at preventing the transfer of vibration and noise.

Machine feet with shear protection are available for situations where tensile forces are to be expected.

The indicated load data are reference values for static loads by rubber hardness of Shore 60A.

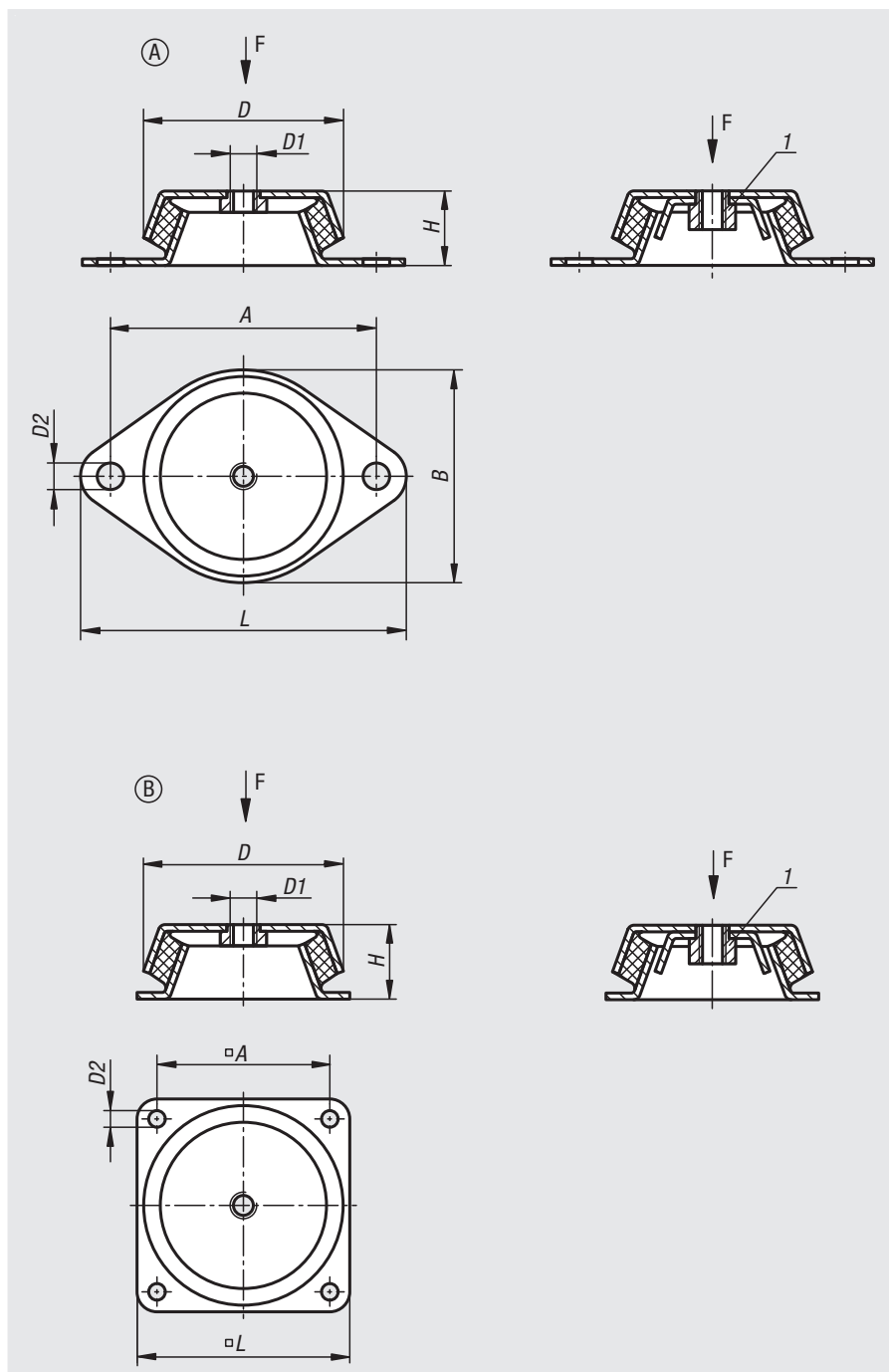
In contrast to those in the drawing, the holes D2 can also be elongated holes.

On request:

Rubber hardness Shore 40 or 70 A.

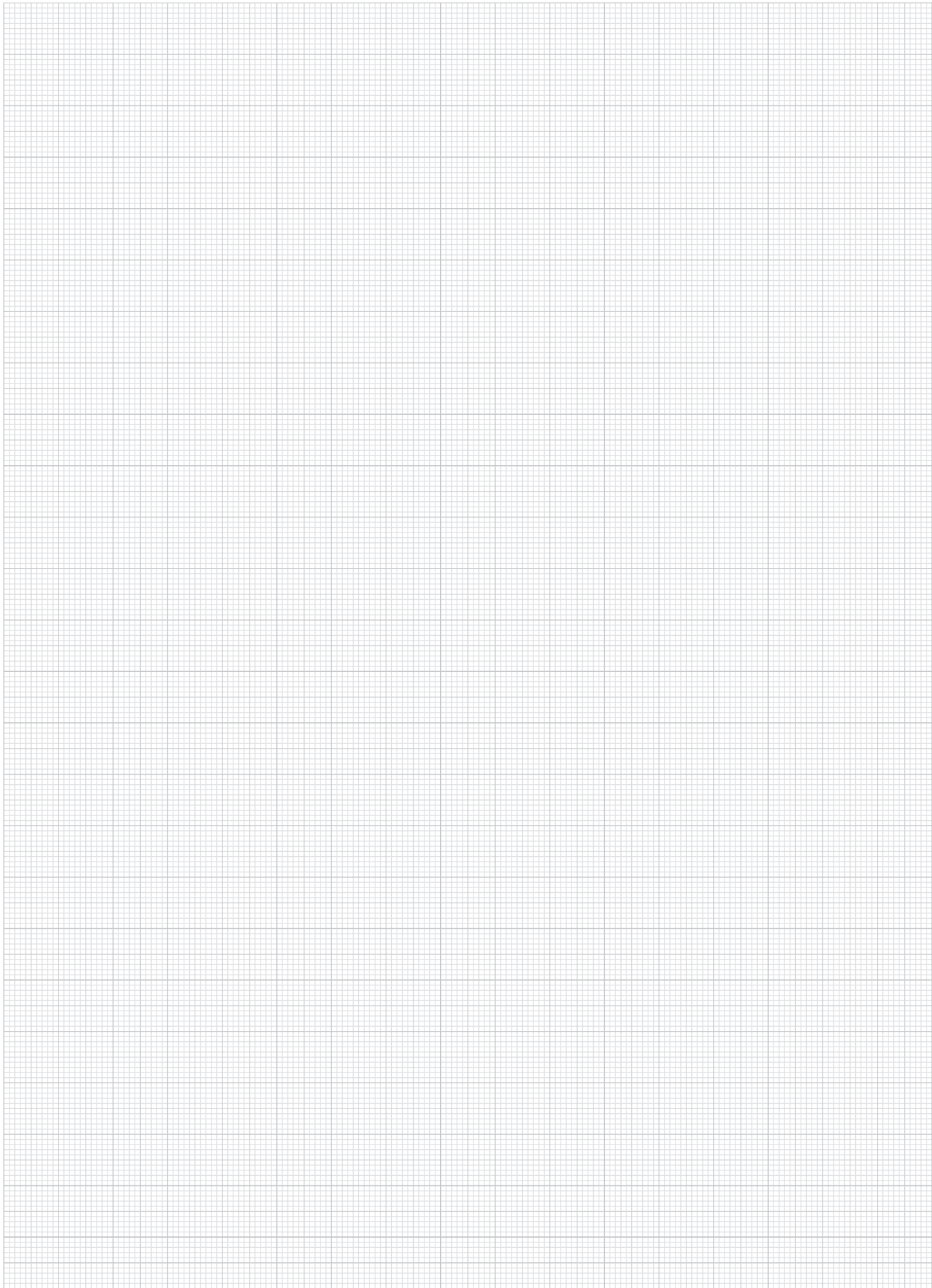
Drawing reference:

1) With shear protection



Order No. without shear protection	Order No. with shear protection	Form	A	B	D	D1	D2	H	L	Load rating max. kN
27760-062060	27760-062160	A	85	66	62	M10	8,2	30	110	1,5
27760-078060	27760-078160	A	110	78	78	M10	9	30	128	1,8
27760-092060	27760-092160	A	110	96	86	M12	10,2	45	140	3
27760-106060	27760-106160	A	140	110	106	M12	12,4	39	170	3,6
27760-150060	27760-150160	B	132	-	150	M16	12,5	51	168	8

Notes



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33000

Technical note on screw-on aluminium machine feet with vibration damping

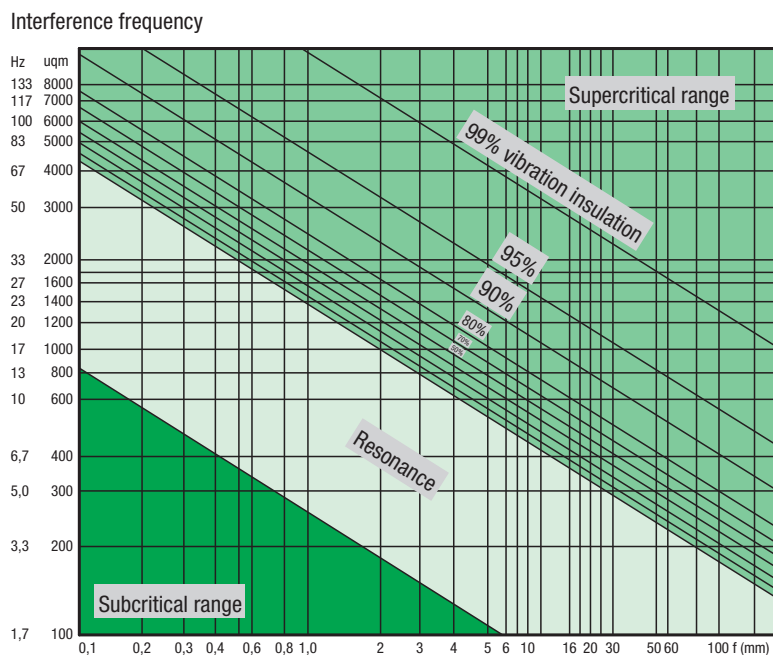
Vibration dampers are used to absorb inadmissible vibrations and knocks in machines. A permanently elastic spring system can reduce vibrations and knocks and provide very effective isolation.

Features:

- Aluminium body with vulcanised insulation.
- Oil-resistant rubber in four Shore hardnesses.
- Vulcanised slip protection.
- Can be screwed into the floor.

Technical data:

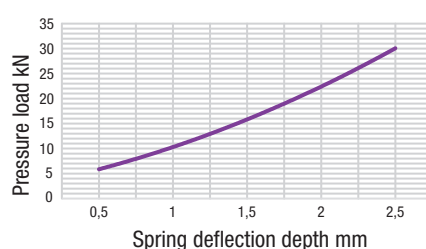
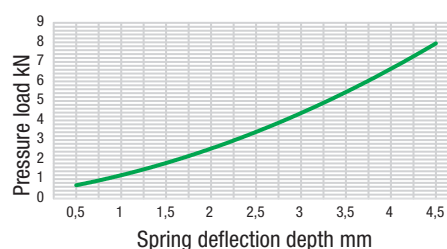
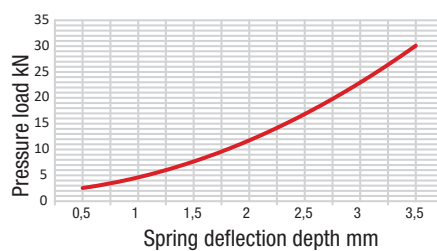
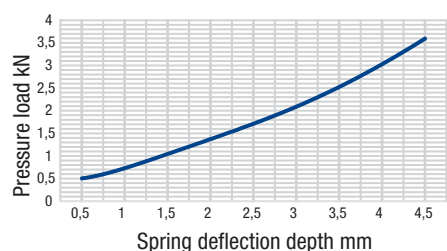
The following diagram can be used to determine the spring deflection depth required to obtain the desired level of isolation.



Example:

If a disturbance frequency of 1600 rpm has to be reduced by 80%, corresponding to the number of strokes in a punching machine for example, this diagram can be used to determine the spring deflection depth. At the intersection between the disturbance frequency and the diagonal transmission line of 80%, follow the vertical line down to find the required spring deflection of 2mm.

Natural frequency in Hz	Static or dynamic force in N			
	Shore hardness 30	Shore hardness 50	Shore hardness 70	Shore hardness 90
22	460	650	3250	6500
16	800	1300	5350	11000
13	1200	1900	6800	16300
11	1570	2800	12500	21000
10	1700	3500	16500	-
9	2000	4000	22000	-
8	2800	5600	-	-



Shore hardness 30 ■
Shore hardness 50 ■

Shore hardness 70 ■
Shore hardness 90 ■

Example:

If a static or dynamic force of 460 N is acting on a vibration damper with Shore hardness 30, a natural frequency of about 22 Hz is to be expected. If only the natural frequency is known, this principle can be applied in reverse. If the disturbance frequency is 22 Hz, a vibration damper with Shore hardness 30 can be loaded with a maximum force of 460 N.

Machine feet, aluminium with vibration absorption

screw-on



Material:

Aluminium, nitrile rubber

Sample order:

nlm 27761-30

Note:

The machine feet with vibration absorption remain vertically and horizontally stable, even in the presence of strong vibrations.

Permanent loads are optimally absorbed thanks to the high quality rubber-metal joint.

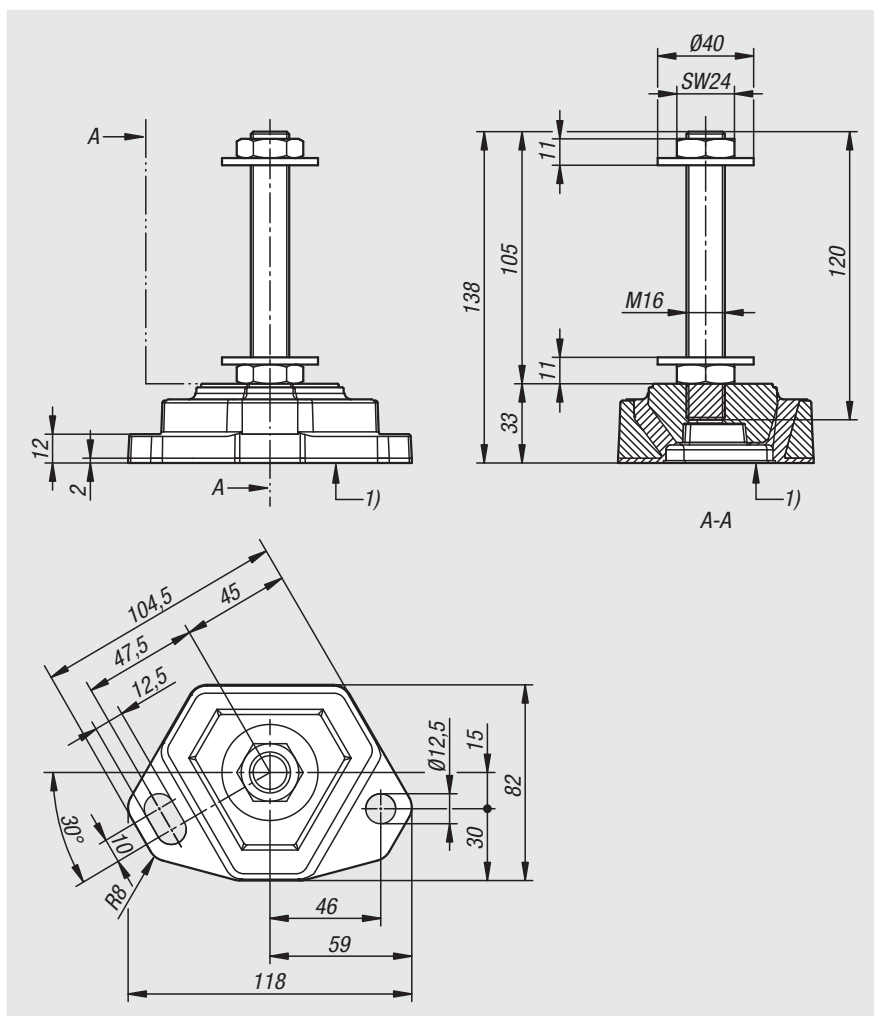
The machine feet can be screwed onto the machine using a threaded spindle.

Supplied with:

Threaded spindle M16X105 is supplied fully assembled as part of delivery.

Drawing reference:

1) Shore hardness



Order No.	Shore grade	Rec. load (N)	Max. load (N)
27761-30	30	1000	2000
27761-50	50	2500	5000
27761-70	70	3500	10000
27761-90	90	5000	15000

Levelling feet

steel or stainless steel



Material:

Foot plate and threaded spindle steel or stainless steel.
Rubber support (NBR) 80 Shore.

Version:

Foot plate, electro zinc-plated or polished.
Threaded spindle, electro zinc-plated or bright.
Rubber support, vulcanised, black.

Sample order:

nIm 27790-1108010X50
(include length L)

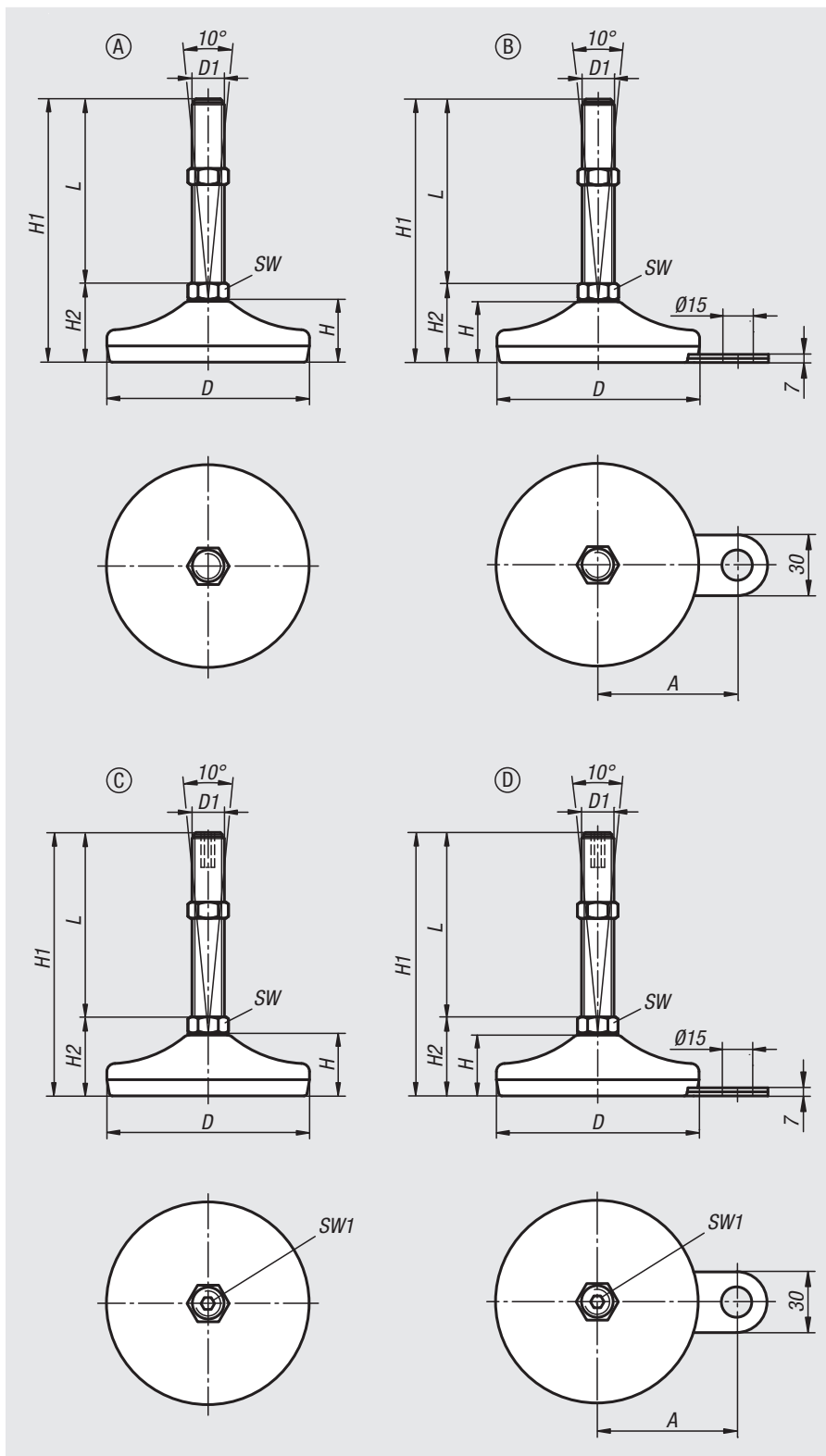
Note:

Levelling feet steel or stainless steel with pivoting threaded spindle and rubber base. The solid rubber base is permanently vulcanised to the sheet metal plate. The rubber base has an excellent surface grip. It is sound damping and impedes transmission of vibrations and impacts to the floor.

The load values specified in the table are based on a test series, in which a static load was applied perpendicular to the plates through the centre of the spindle. Radially acting forces such as those produced by vibrations or other shaking effects, affect the load rating and are not taken into account for the specified values.

For stainless steel feet from spindle size M16, the wrench sizes apply across two flats.

Supplied with matching nut.



Form A

Order No.	Form	Main material	D	D1	H	H1	H2	SW	L	Load rating max. kN (static load only)
27790-1105010X	A	steel	50	M10	19	79	29	14	50/100	4
27790-1105012X	A	steel	50	M12	19	79	29	14	50/100/150	4
27790-1106010X	A	steel	60	M10	22	82	32	14	50/100	7
27790-1106012X	A	steel	60	M12	22	82	32	14	50/100/150	7
27790-1108010X	A	steel	80	M10	25	85	35	14	50/100	10
27790-1108012X	A	steel	80	M12	25	85	35	14	50/100/150	10
27790-1108014X	A	steel	80	M14	25	85	35	14	50/100/150	10
27790-1108016X	A	steel	80	M16	25	135	35	16	100/150	10
27790-1108020X	A	steel	80	M20	25	111	36	20	75/100/150/200	10
27790-1110020X	A	steel	100	M20	28	113,5	38,5	20	75/100/150/200/250	15
27790-1110024X	A	steel	100	M24	28	138,5	38,5	24	100/150/200/250	15
27790-1112020X	A	steel	120	M20	32	142,5	42,5	20	100/150/200	30
27790-1112024X	A	steel	120	M24	32	142,5	42,5	24	100/150/200	30
27790-1112030X	A	steel	120	M30	32	143,5	43,5	30	100/150/200	30
27790-1205010X	A	stainless steel	50	M10	19	79	29	14	50/100	4
27790-1205012X	A	stainless steel	50	M12	19	79	29	14	50/100/150	4
27790-1206010X	A	stainless steel	60	M10	22	82	32	14	50/100	7
27790-1206012X	A	stainless steel	60	M12	22	82	32	14	50/100/150	7
27790-1208010X	A	stainless steel	80	M10	25	85	35	14	50/75/100/125	10
27790-1208012X	A	stainless steel	80	M12	25	85	35	14	50/75/100/125/150	10
27790-1208014X	A	stainless steel	80	M14	25	110	35	14	75/100/125/150/175	10
27790-1208016X	A	stainless steel	80	M16	25	110	35	13	75/100/125/150/175	10
27790-1208020X	A	stainless steel	80	M20	25	113	38	17	75/100/125/150/175/200/225	10
27790-1210020X	A	stainless steel	100	M20	30	118	43	17	75/100/125/150/175/200	15
27790-1210024X	A	stainless steel	100	M24	30	144	44	20	100/125/150/175/200	15
27790-1212020X	A	stainless steel	120	M20	32	143	43	17	100/150/200	30
27790-1212024X	A	stainless steel	120	M24	32	144	44	20	100/150/200	30
27790-1212030X	A	stainless steel	120	M30	32	147	47	26	100/150/200	30

Form B with fastening tab

Order No.	Form	Main material	A	D	D1	H	H1	H2	SW	L	Load rating max. kN (static load only)
27790-2106010X	B	steel	45	60	M10	22	82	32	14	50/100	7
27790-2106012X	B	steel	45	60	M12	22	82	32	14	50/100/150	7
27790-2108010X	B	steel	54	80	M10	25	85	35	14	50/100	10
27790-2108012X	B	steel	54	80	M12	25	85	35	14	50/100/150	10
27790-2108014X	B	steel	54	80	M14	25	85	35	14	50/100/150	10
27790-2108016X	B	steel	54	80	M16	25	135	35	16	100/150	10
27790-2108020X	B	steel	54	80	M20	25	111	36	20	75/100/150/200	10
27790-2110020X	B	steel	69	100	M20	28	113,5	38,5	20	75/100/150/200/250	15
27790-2110024X	B	steel	69	100	M24	28	138,5	38,5	24	100/150/200/250	15
27790-2206010X	B	stainless steel	45	60	M10	22	82	32	14	50/100	7
27790-2206012X	B	stainless steel	45	60	M12	22	82	32	14	50/100/150	7
27790-2208010X	B	stainless steel	54	80	M10	25	85	35	14	50/75/100/125	10
27790-2208012X	B	stainless steel	54	80	M12	25	85	35	14	50/75/100/125/150	10
27790-2208014X	B	stainless steel	54	80	M14	25	110	35	14	75/100/125/150/175	10
27790-2208016X	B	stainless steel	54	80	M16	25	110	35	13	75/100/125/150/175	10
27790-2208020X	B	stainless steel	54	80	M20	25	113	38	17	75/100/125/150/175/200/225	10
27790-2210020X	B	stainless steel	69	100	M20	30	118	43	17	75/100/125/150/175/200	15
27790-2210024X	B	stainless steel	69	100	M24	30	144	44	20	100/125/150/175/200	15

Levelling feet

steel or stainless steel



Form C with hexagon socket

Order No.	Form	Main material	D	D1	H	H1	H2	SW	SW1	L	Load rating max. kN (static load only)
27790-3105010X	C	steel	50	M10	19	79	29	14	5	50	4
27790-3105012X	C	steel	50	M12	19	79	29	14	6	50/100	4
27790-3105016X	C	steel	50	M16	19	104	29	16	8	75/100/150	4
27790-3106010X	C	steel	60	M10	22	82	32	14	5	50	7
27790-3106012X	C	steel	60	M12	22	82	32	14	6	50/100	7
27790-3106016X	C	steel	60	M16	22	108	33	16	8	75/100/150	7
27790-3108016X	C	steel	80	M16	25	135	35	16	8	100/150	10
27790-3108020X	C	steel	80	M20	25	111	36	20	10	75	10
27790-3110020X	C	steel	100	M20	28	138,5	38,5	20	10	100/150	15
27790-3110024X	C	steel	100	M24	28	238,5	38,5	24	10	200	15
27790-3112020X	C	steel	120	M20	32	142,5	42,5	20	10	100/150/200	30
27790-3112024X	C	steel	120	M24	32	142,5	42,5	24	10	100/150/200	30
27790-3112030X	C	steel	120	M30	32	143,5	43,5	30	10	100/150/200	30
27790-3205010X	C	stainless steel	50	M10	19	79	29	14	5	50	4
27790-3205012X	C	stainless steel	50	M12	19	79	29	14	6	50/100	4
27790-3205016X	C	stainless steel	50	M16	19	104	29	13	8	75/100/150/200	4
27790-3206010X	C	stainless steel	60	M10	22	82	32	14	5	50	7
27790-3206012X	C	stainless steel	60	M12	22	82	32	14	6	50/100	7
27790-3206016X	C	stainless steel	60	M16	22	108	33	13	8	75/100/150/200	7
27790-3208016X	C	stainless steel	80	M16	25	110	35	13	8	75/100/125/150/175	10
27790-3208020X	C	stainless steel	80	M20	25	113	38	17	10	75/200	10
27790-3210020X	C	stainless steel	100	M20	30	193	43	17	10	150	15
27790-3212020X	C	stainless steel	120	M20	32	143	43	17	10	100/150/200	30
27790-3212024X	C	stainless steel	120	M24	32	145	45	20	10	100/150/200	30
27790-3212030X	C	stainless steel	120	M30	32	147	47	26	10	100/150/200	30

Form D with hexagon socket and fastening tab

Order No.	Form	Main material	A	D	D1	H	H1	H2	SW	SW1	L	Load rating max. kN (static load only)
27790-4106010X	D	steel	45	60	M10	22	82	32	14	5	50	7
27790-4106012X	D	steel	45	60	M12	22	82	32	14	6	50/100	7
27790-4106016X	D	steel	45	60	M16	22	108	33	16	8	75/100/150/200	7
27790-4206010X	D	stainless steel	45	60	M10	22	82	32	14	5	50	7
27790-4206012X	D	stainless steel	45	60	M12	22	82	32	14	6	50/100	7
27790-4206016X	D	stainless steel	45	60	M16	22	108	33	13	8	75/100/150/200	7

Levelling feet in Hygienic DESIGN



Material:

Foot plate and threaded spindle stainless steel 1.4301.
Rubber base (NBR) Shore 85 +/-5, FDA tested.
Rubber seal, silicone, FDA tested.

Version:

Foot plate, high-gloss polished.
Threaded spindle, bright.
Rubber base, black.
Rubber seal, blue.

Sample order:

nIm 27791-05-108016X140
(include length L3)

Note:

Certified according to 3-A Sanitary Standard 88-00.

The high surface quality, the double sealing of the thread and the special seal on the machine foot's spindle joint prevent dirt from sticking and reduce cleaning times to a minimum.

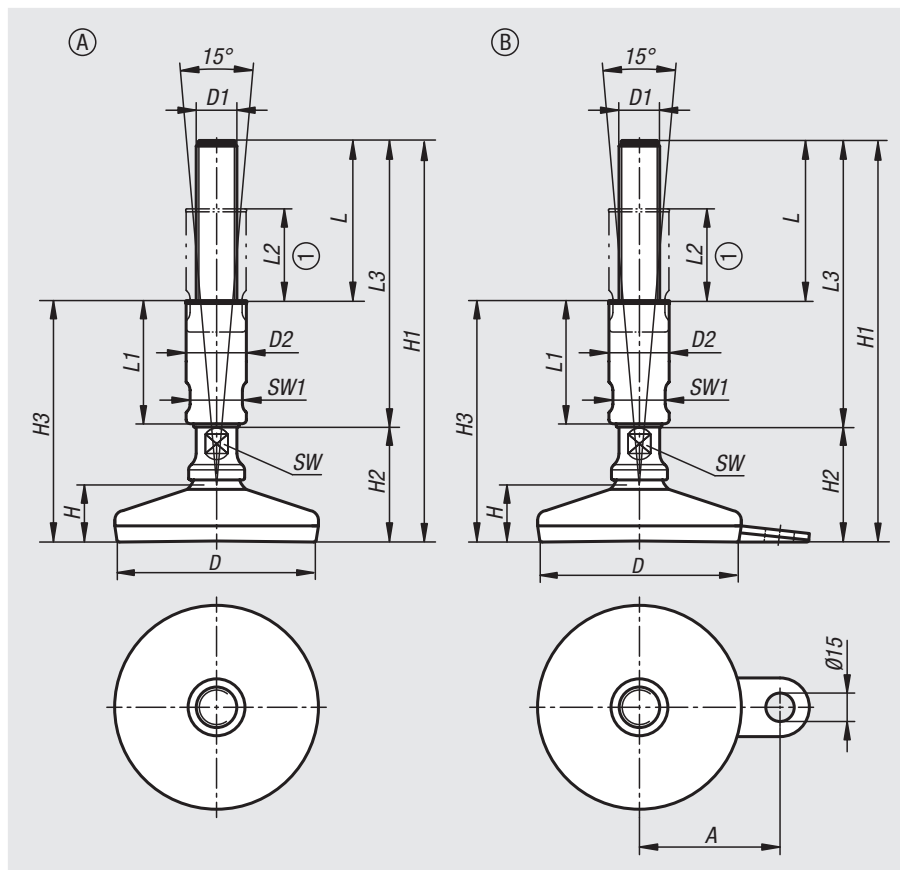
The machine foot is supplied with the 3-A logo.

Application:

The machine foot is particularly suitable for machines, plants and appliances in the foodstuff industry, breweries, dairies, beverage and pharmaceutical industries.

Drawing reference:

1) Adjustment range



Levelling feet in Hygienic DESIGN

Form A

Order No.	Form	D	D1	D2	H	H1	H2	H3	L	L1	L2	L3	SW	SW1	Load rating max. kN (static load only)
27791-05-108016X140	A	80	M16	24	25	193/243	53	114/139	79/104	60/85	45/70	140/190	13	20	20
27791-05-108020X140	A	80	M20	30	25	193/243	53	114/139	79/104	60/85	45/70	140/190	17	26	20
27791-05-108024X140	A	80	M24	35	25	193/243	53	114/139	79/104	60/85	45/70	140/190	20	30	20
27791-05-110016X140	A	100	M16	24	28	196/246	56	117/142	79/104	60/85	45/70	140/190	13	20	25
27791-05-110020X140	A	100	M20	30	28	196/246	56	117/142	79/104	60/85	45/70	140/190	17	26	25
27791-05-110024X140	A	100	M24	35	28	196/246	56	117/142	79/104	60/85	45/70	140/190	20	30	25
27791-05-112016X140	A	120	M16	24	32	200/250	60	121/146	79/104	60/85	45/70	140/190	13	20	30
27791-05-112020X140	A	120	M20	30	32	200/250	60	121/146	79/104	60/85	45/70	140/190	17	26	30
27791-05-112024X140	A	120	M24	35	32	200/250	60	121/146	79/104	60/85	45/70	140/190	20	30	30

Form B with fastening tab

Order No.	Form	A	D	D1	D2	H	H1	H2	H3	L	L1	L2	L3	SW	SW1	Load rating max. kN (static load only)
27791-05-208016X140	B	54	80	M16	24	25	193	53	114	79	60	45	140	13	20	20
27791-05-208016X190	B	54	80	M16	24	25	243	53	139	104	85	70	190	13	20	20
27791-05-208020X140	B	54	80	M20	30	25	193	53	114	79	60	45	140	17	26	20
27791-05-208020X190	B	54	80	M20	30	25	243	53	139	104	85	70	190	17	26	20
27791-05-208024X140	B	54	80	M24	35	25	193	53	114	79	60	45	140	20	30	20
27791-05-208024X190	B	54	80	M24	35	25	243	53	139	104	85	70	190	20	30	20
27791-05-210016X140	B	69	100	M16	24	28	196	56	117	79	60	45	140	13	20	25
27791-05-210016X190	B	69	100	M16	24	28	246	56	142	104	85	70	190	13	20	25
27791-05-210020X140	B	69	100	M20	30	28	196	56	117	79	60	45	140	17	26	25
27791-05-210020X190	B	69	100	M20	30	28	246	56	142	104	85	70	190	17	26	25
27791-05-210024X140	B	69	100	M24	35	28	196	56	117	79	60	45	140	20	30	25
27791-05-210024X190	B	69	100	M24	35	28	246	56	142	104	85	70	190	20	30	25

Swivel feet

steel



Material:

Foot plate and threaded spindle steel.
Anti-slip plate (NBR) 70 Shore.

Version:

Foot plate painted yellow.
Threaded spindle electro zinc-plated.
Anti-slip plate black.

Sample order:

nIm 27792-005010X25
(include length L)

Note:

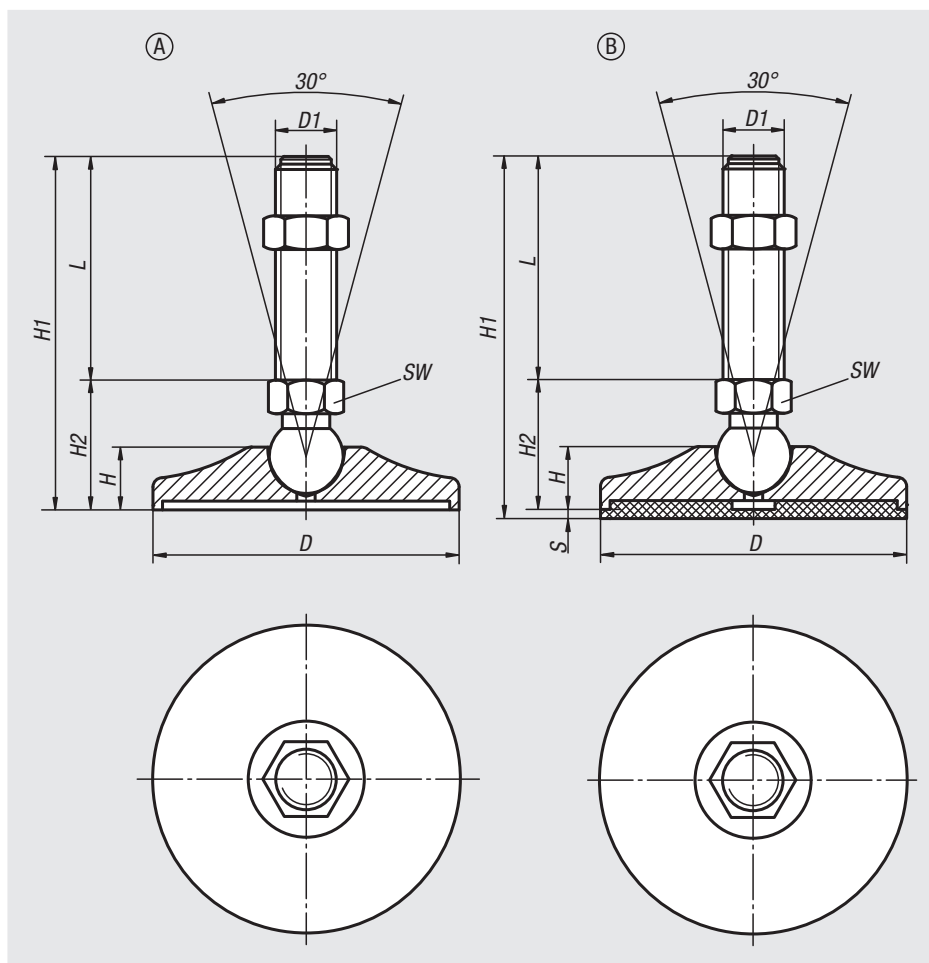
High load rated steel swivel feet with yellow painted plate, optional with an anti-slip plate. The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.

The load values specified in the table are based on a test series, in which a static load was applied perpendicular to the plates through the centre of the spindle. Radially acting forces such as those produced by vibrations or other shaking effects, affect the load rating and are not taken into account for the specified values.

Supplied with matching nut.

Drawing reference:

Form A without anti-slip plate
Form B with anti-slip plate



Swivel feet

steel



Order No. Form A	D	D1	H	H1	H2	SW	L	Load rating max. kN (static load only)
27792-005010X	50	M10	16	53/78/103/128/153	28	14	25/50/75/100/125	15
27792-005012X	50	M12	16	53/78/103/128/153	28	14	25/50/75/100/125	15
27792-005014X	50	M14	16	53/78/103/128/153	28	14	25/50/75/100/125	15
27792-006514X	65	M14	17	80/105/130/155/180	30	14	50/75/100/125/150	20
27792-006516X	65	M16	17	80/105/130/155/180/205	30	16	50/75/100/125/150/175	20
27792-008016X	80	M16	19,5	83/108/133/158/183/208/233	33	16	50/75/100/125/150/175/200	30
27792-008020X	80	M20	19,5	111/136/161/186/211/236	36	17	75/100/125/150/175/200	30
27792-010016X	100	M16	20	93/118/143/168/193/218/243	43	20	50/75/100/125/150/175/200	35
27792-010020X	100	M20	20	118/143/168/193/218/243	43	20	75/100/125/150/175/200	45
27792-010024X	100	M24	20	119/144/169/194/219/244	44	20	75/100/125/150/175/200	55

Order No. Form B	D	D1	H	H1	H2	S	SW	L	Load rating max. kN (static load only)
27792-105010X	50	M10	16	56/81/106/131/156	28	3	14	25/50/75/100/125	15
27792-105012X	50	M12	16	56/81/106/131/156	28	3	14	25/50/75/100/125	15
27792-105014X	50	M14	16	56/81/106/131/156	28	3	14	25/50/75/100/125	15
27792-106514X	65	M14	17	83/108/133/158/183	30	3	14	50/75/100/125/150	20
27792-106516X	65	M16	17	83/108/133/158/183/208	30	3	16	50/75/100/125/150/175	20
27792-108016X	80	M16	19,5	86/111/136/161/186/211/236	33	3	16	50/75/100/125/150/175/200	30
27792-108020X	80	M20	19,5	114/139/164/189/214/239	36	3	17	75/100/125/150/175/200	30
27792-110016X	100	M16	20	96/121/146/171/196/221/246	43	3	20	50/75/100/125/150/175/200	35
27792-110020X	100	M20	20	121/146/171/196/221/246	43	3	20	75/100/125/150/175/200	45
27792-110024X	100	M24	20	122/147/172/197/222/247	44	3	20	75/100/125/150/175/200	55

Levelling feet round


Material:

Polyamide.
Screw, steel.

Version:

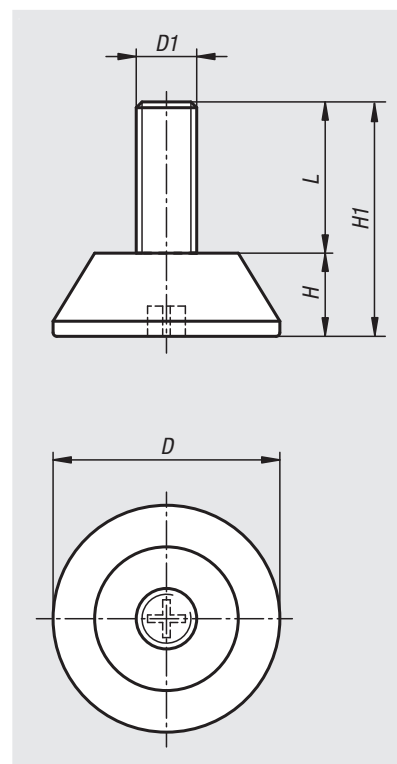
Black.
Screw electro zinc-plated.

Sample order:

nIm 27794-3006X020
(include length L)

Note:

Levelling feet with cross slot in the base as assembly aid.
Rigid version.



Order No.	D	D1	H	H1	L	Load rating max. kN (static load only)
27794-3006X	30	M6	11	31/41	20/30	3
27794-3008X	30	M8	11	27/31/36/41/51	16/20/25/30/40	3
27794-3010X	30	M10	11	36/41/46	25/30/35	3
27794-4708X	47	M8	11	27/31/41/51	16/20/30/40	4
27794-4710X	47	M10	11	31/41/66	20/30/55	4

Levelling feet round

with hex. collar


Material:

Polyamide.
Screw, steel.

Version:

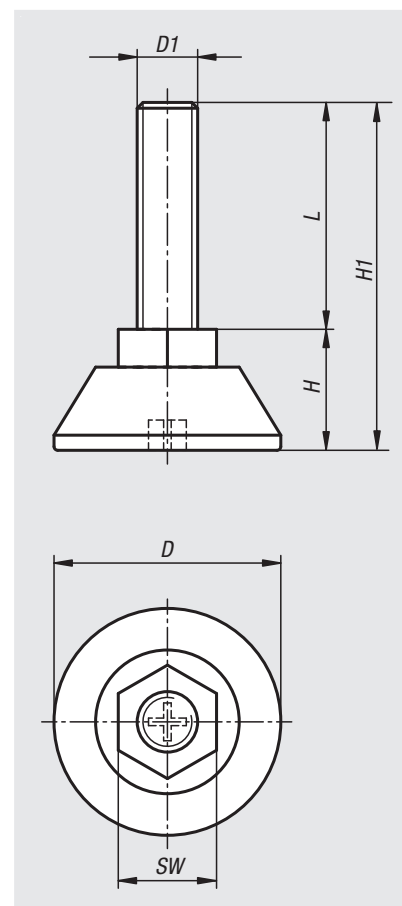
Black.
Screw electro zinc-plated.

Sample order:

nIm 27795-3006X020
(include length L)

Note:

Levelling feet with hexagonal collar and cross slot in the base as assembly aid. Rigid version.



Order No.	D	D1	H	H1	SW	L	Load rating max. kN (static load only)
27795-3006X	30	M6	16	36/46	13	20/30	3
27795-3008X	30	M8	16	31/36/41/46/56	13	15/20/25/30/40	3
27795-4708X	47	M8	16	31/36/46/56	13	15/20/30/40	4
27795-4710X	47	M10	16	36/46	17	20/30	4

Levelling feet

with hex. base



Material:

Polyethylene.
Screw, steel.

Version:

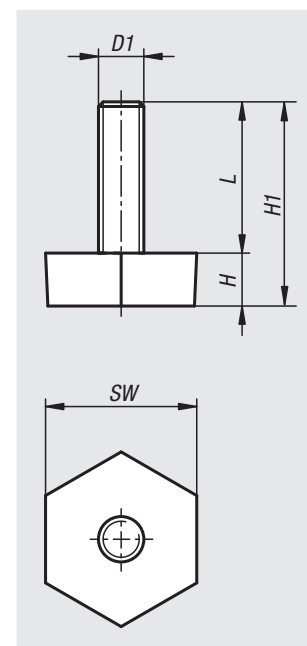
Black.
Screw electro zinc-plated.

Sample order:

nIm 27796-2006X020
(include length L)

Note:

Levelling feet with hexagonal base. Rigid version.



Order No.	D1	H	H1	SW	L	Load rating max. kN (static load only)
27796-2006X	M6	7	27/37/47/57	20	20/30/40/50	1,5
27796-2008X	M8	7	27/37/47/57	20	20/30/40/50	3
27796-2506X	M6	7,5	27,5/37,5/47,5/57,5	25	20/30/40/50	1,5
27796-2508X	M8	7,5	27,5/37,5/47,5/57,5	25	20/30/40/50	3
27796-2510X	M10	7,5	27,5/37,5	25	20/30	4
27796-3008X	M8	8	28/38/48/58	30	20/30/40/50	3
27796-3010X	M10	8	28/38	30	20/30	3

Levelling feet

with knurled base

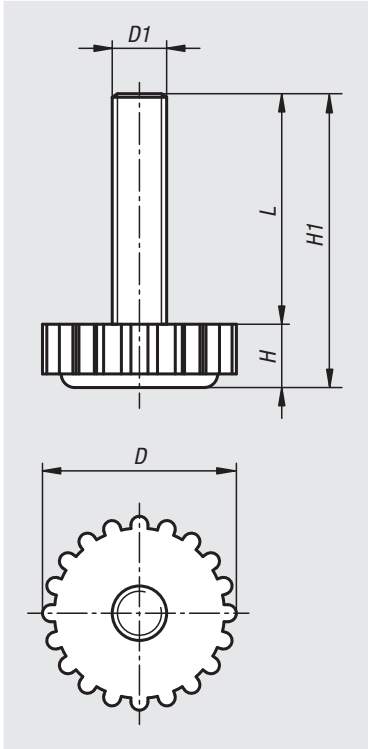


Material:
Polyamide.
Screw, steel.

Version:
Black.
Screw electro zinc-plated.

Sample order:
nlm 27797-2805X016
(include length L)

Note:
Levelling feet with knurled base. Rigid version.



Order No.	D	D1	H	H1	L	Load rating max. kN (static load only)
27797-2805X	28,5	M5	9,3	25,3/29,3/34,3/49,3	16/20/25/40	2
27797-2806X	28,5	M6	9,3	25,3/29,3/39,3/49,3/59,3	16/20/30/40/50	3,5
27797-2808X	28,5	M8	9,3	25,3/29,3/39,3/49,3/59,3/69,3/89,3	16/20/30/40/50/60/80	4,5

Levelling feet


Material:

Foot plate and threaded spindle in steel.

Version:

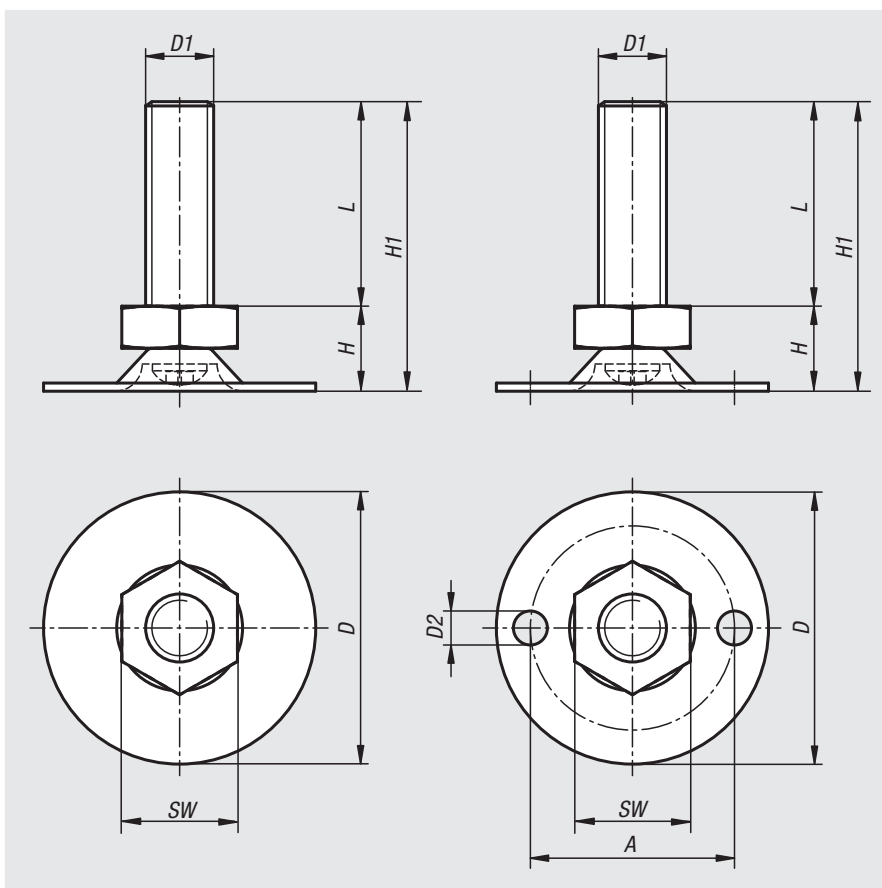
Foot plate and threaded spindle electro zinc-plated.

Sample order:

nIm 27798-03008X016
(include length L)

Note:

The threaded spindle is pressed into the rotatable base.



Order No. without hole	Order No. with hole	A	D	D1	D2	H	H1	SW	L	Load rating max. kN (static load only)
27798-03008X	27798-13008X	-/24,3	30	M8	-/4	11	27/31/41/51/61	13	16/20/30/40/50	2,5
27798-03010X	27798-13010X	-/24,3	30	M10	-/4	12,5	28,5/32,5/42,5/52,5/62,5/72,5	17	16/20/30/40/50/60	3,5
27798-04008X	27798-14008X	-/30	40	M8	-/5	11	27/31/41/51/61	13	16/20/30/40/50	2,5
27798-04010X	27798-14010X	-/30	40	M10	-/5	11	27/31/41/51/61/71	17	16/20/30/40/50/60	3,5
27798-05008X	27798-15008X	-/35	50	M8	-/5,5	12,5	28,5/32,5/42,5/52,5/62,5	13	16/20/30/40/50	2,5
27798-05010X	27798-15010X	-/35	50	M10	-/5,5	14	30/34/44/54/64/74	17	16/20/30/40/50/60	3,5
27798-06008X	27798-16008X	-/46	60	M8	-/5,5	13,5	29,5/33,5/43,5/53,5/63,5	13	16/20/30/40/50	2,5
27798-06010X	27798-16010X	-/46	60	M10	-/5,5	15	31/35/45/55/65/75	17	16/20/30/40/50/60	3,5

Levelling foot caps

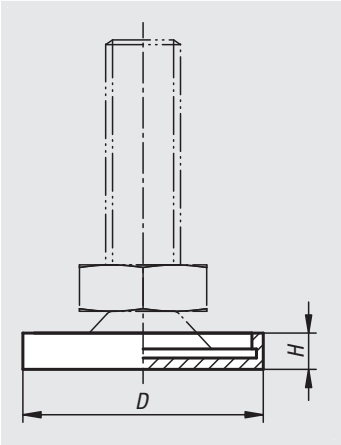


Material:
Polyethylene

Version:
black.

Sample order:
nlm 27799-1030

Note:
The caps protect the surface against scratch marks.



Order No.	for foot plate Ø	D	H
27799-1030	30	31,8	4,8
27799-1060	60	62	6,8

Modular structure of a swivel foot

Application:

Swivel feet are of modular design. The components can be individually combined to match the application. The swivel feet are applicable for use on machines, plants and even office furniture.

Modular design:

Swivel feet consist of two components - a plate and a threaded spindle or ball joint.

Any plate can be combined with **any** threaded spindle or ball joint (see Fig. 1).

Assembly:

Using a plastic hammer, knock the ball of the threaded spindle or ball joint vertically into the swivel foot plate. If necessary, the two fastening holes (closed) in the swivel foot plate can be opened by simply punching them out to allow the swivel foot to be fastened to a base.

Height of swivel foot:

Swivel feet always have a minimum height of $H = 22.5$ mm independently of the plate, threaded spindle or ball joint size (see Fig. 2). When assembling with threaded spindle, the height of the complete swivel foot is calculated by adding 22.5 mm to the length of the threaded spindle + the height of the hexagon.

(Total height of swivel foot = $L + L1 + 22.5$ mm).

When assembling with ball joint, the length L is void.

Note for ordering:

If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint (see sample order on the relevant product page).

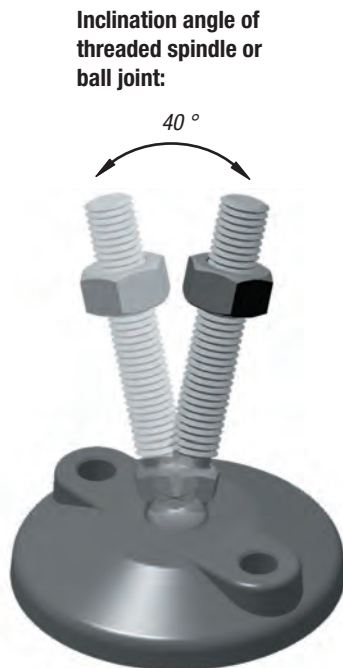


Fig. 1

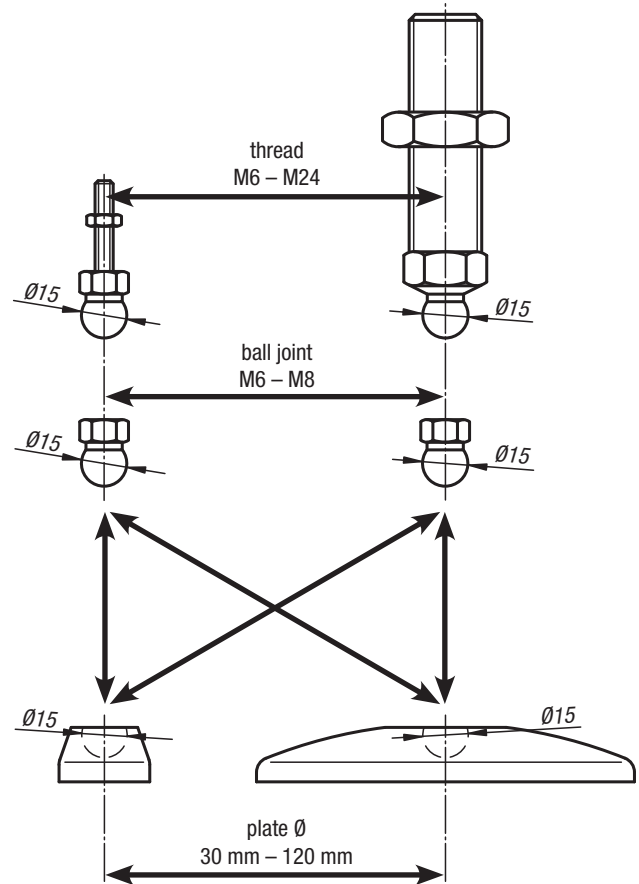
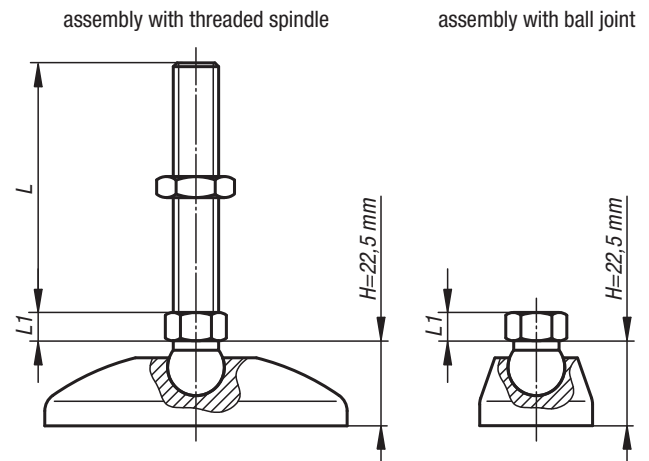


Fig. 2



Swivel feet plates antistatic



Material:

Plates, thermoplastic, glass bead reinforced.
Anti-slip plate thermoplastic elastomer.

Version:

black.

Sample order:

nIm 27800-11040

Note for ordering:

If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint. (e.g. 27800-1030 and 27810-060151 **assembled**.)

Note:

Swivel feet consist of a plate and a threaded spindle or ball joint.
Any plate can be combined with any threaded spindle or ball joint.
The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.

For matching threaded spindles see 27810.

For matching ball joints see 27811.

Safety:

These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.

Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.

Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.

These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:

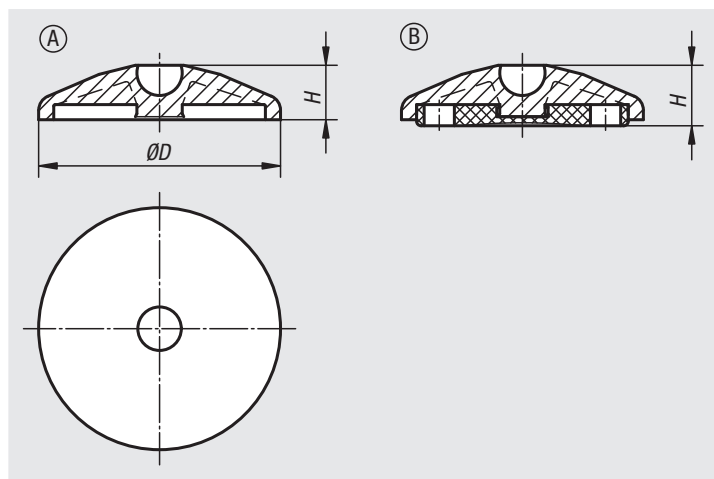
Device manufacturers required to conform to ATEX product directive 2014/34/EU.

Operators required to conform to ATEX worker protection directive 1999/92/EC.

Drawing reference:

Form A without screw-on hole, without anti-slip plate

Form B without screw-on hole, with anti-slip plate



Order No.	Form	D	H	Load rating max. kN
27800-11040	A	40	18	9
27800-11050	A	50	18	9
27800-11060	A	60	18	9
27800-12040	B	40	20	9
27800-12050	B	50	20	9
27800-12060	B	60	20	9

Swivel feet plates

plastic



Material:

Plates, thermoplastic, glass bead reinforced.
Anti-slip plate thermoplastic elastomer.

Version:

black.

Sample order:

nIm 27800-1030

nIm 27800-1030 and 27810-060151 **assembled**

Note for ordering:

If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix "**assembled**" to the order number for the plate and the spindle or ball joint. (e.g. 27800-1030 and 27810-060151 **assembled**.)

Note:

Swivel feet consist of a plate and a threaded spindle or ball joint.
Any plate can be combined with any threaded spindle or ball joint.
The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.

For matching threaded spindles see 27810.

For matching ball joints see 27811.

Drawing reference:

Form A

without screw-on hole, without anti-slip plate

Form B

without screw-on hole, with anti-slip plate

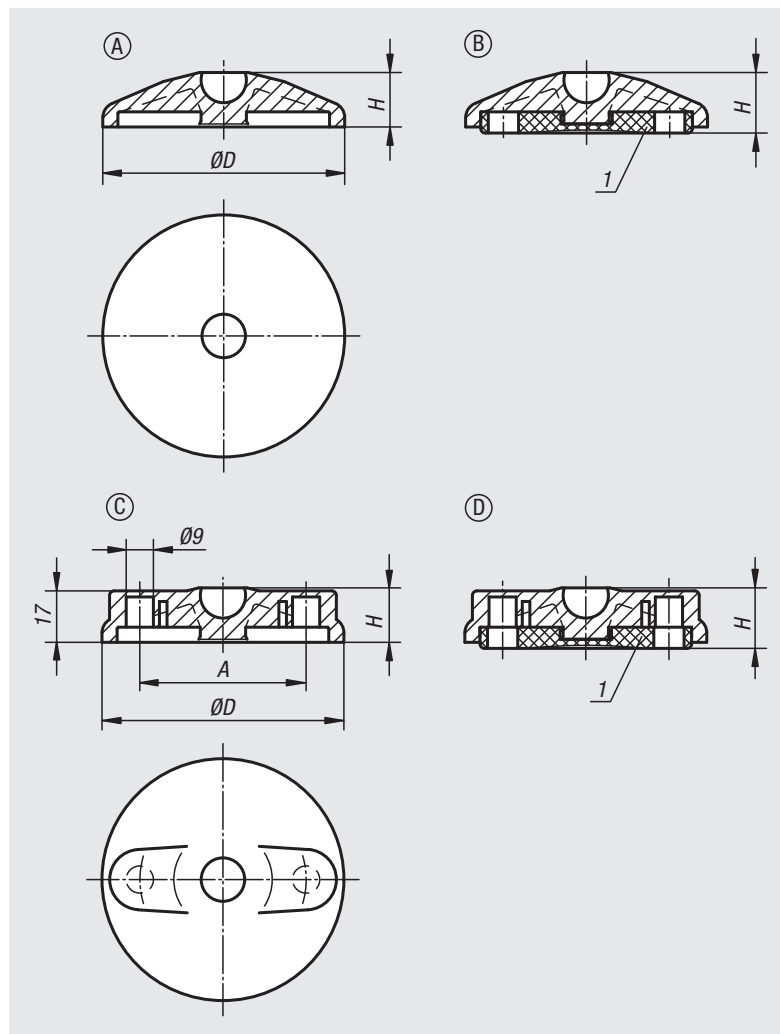
Form C

with screw-on hole (closed), without anti-slip plate

Form D

with screw-on hole (closed), with anti-slip plate

1) From plate Ø 80



Swivel feet plates

plastic

Order No. A	Order No. B	D	H	Load rating max. kN
27800-1030	27800-2030	30	18/20	5
27800-1040	27800-2040	40	18/20	9
27800-1045	27800-2045	45	18/20	9
27800-1050	27800-2050	50	18/20	9
27800-1060	27800-2060	60	18/20	9
27800-1080	27800-2080	80	18/20	9
27800-1100	27800-2100	100	18/20	9

Order No. Form C	Order No. Form D	D	A	H	Load rating max. kN
27800-3080	27800-4080	80	55	18/20	9
27800-3100	27800-4100	100	74	18/20	9
27800-3120	27800-4120	120	94	18/20	9

Swivel foot plates

die-cast zinc or stainless steel



Material:

Plate die-cast zinc or stainless steel 1.4305.
Anti-slip plate thermoplastic elastomer.

Version:

Die-cast zinc plate, black powder-coated.
Stainless steel plate, bright.

Sample order:

nlm 27801-10301

nlm 27801-10301 and 27810-060151 **assembled**

Note for ordering:

If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint. (e.g. 27801-10301 and 27810-060151 **assembled**).

Note:

Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint. The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.

For matching threaded spindles see 27810.

For matching ball joints see 27811.

Drawing reference:

Form A

without screw-on hole, without anti-slip plate

Form B

without screw-on hole, with anti-slip plate

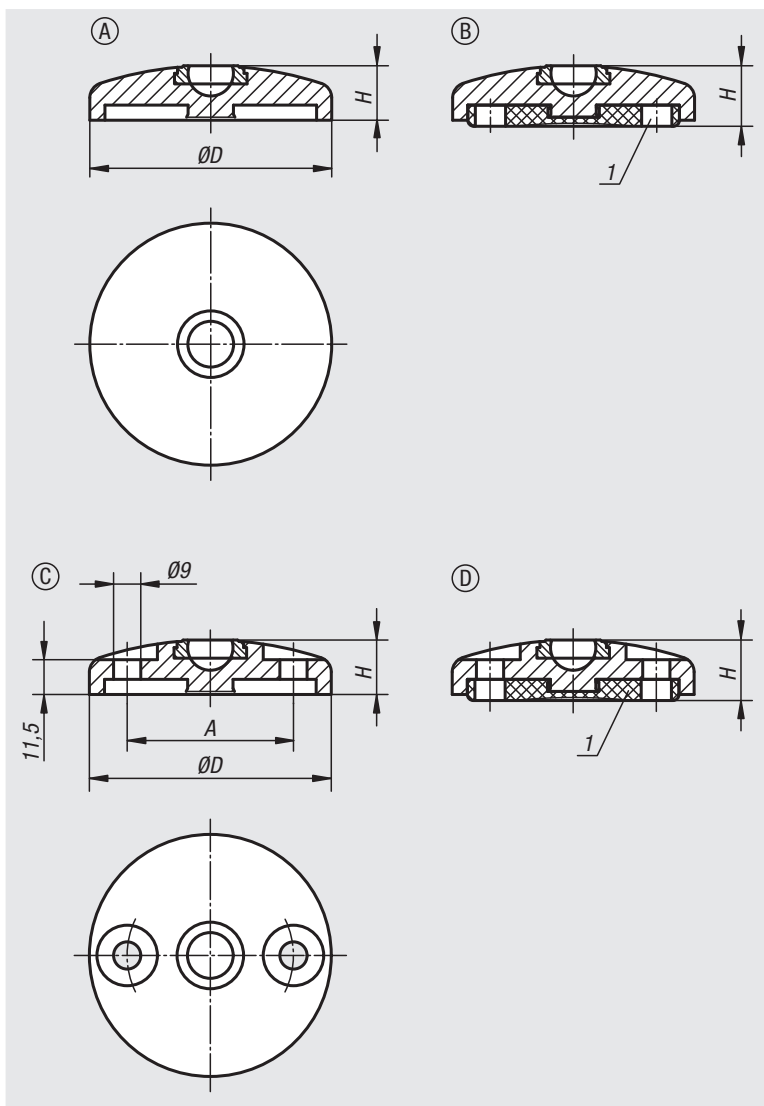
Form C

with screw-on hole (open), without anti-slip plate

Form D

with screw-on hole (open), with anti-slip plate

1) From plate Ø 80



Swivel feet plates

die-cast zinc or stainless steel

Order No. Form A	Order No. Form B	Main material	D	H	Load rating max. kN
27801-10301	27801-20301	zinc	30	18/20	20
27801-10401	27801-20401	zinc	40	18/20	30
27801-10451	27801-20451	zinc	45	18/20	30
27801-10501	27801-20501	zinc	50	18/20	30
27801-10601	27801-20601	zinc	60	18/20	30
27801-10801	27801-20801	zinc	80	18/20	30
27801-11001	27801-21001	zinc	100	18/20	35
27801-11201	27801-21201	zinc	120	18/20	35

Order No. Form C	Order No. Form D	Main material	D	A	H	Load rating max. kN
27801-30801	27801-40801	zinc	80	55	18/20	30
27801-31001	27801-41001	zinc	100	74	18/20	35
27801-31201	27801-41201	zinc	120	94	18/20	35

Order No. Form A	Order No. Form B	Main material	D	H	Load rating max. kN
27801-10302	27801-20302	stainless steel	30	18/20	20
27801-10402	27801-20402	stainless steel	40	18/20	30
27801-10452	27801-20452	stainless steel	45	18/20	30
27801-10502	27801-20502	stainless steel	50	18/20	35
27801-10602	27801-20602	stainless steel	60	18/20	35
27801-10802	27801-20802	stainless steel	80	18/20	35
27801-11002	27801-21002	stainless steel	100	18/20	40
27801-11202	27801-21202	stainless steel	120	18/20	40

Order No. Form C	Order No. Form D	Main material	D	A	H	Load rating max. kN
27801-30802	27801-40802	stainless steel	80	55	18/20	35
27801-31002	27801-41002	stainless steel	100	74	18/20	40
27801-31202	27801-41202	stainless steel	120	94	18/20	40

Swivel foot plates extended

die-cast zinc



Material:

Plate die-cast zinc.

Anti-slip plate thermoplastic elastomer.

Version:

Plate black powder-coated.

Sample order:

nln 27802-30801

nln 27802-30801 and 27810-060151 **assembled**

Note for ordering:

If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix "**assembled**" to the order number for the plate and the spindle or ball joint. (e.g. 27802-30801 and 27810-060151 **assembled**.)

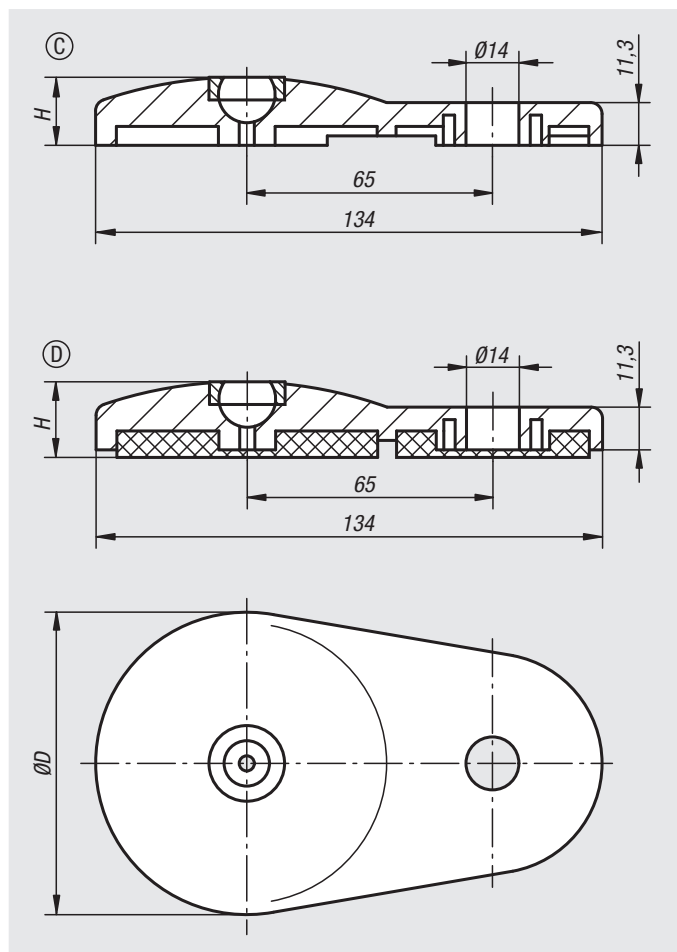
Note:

Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint. The anti-slip plate absorbs vibrations and prevents the swivel foot slipping. For matching threaded spindles see 27810. For matching ball joints see 27811.

Drawing reference:

Form C with screw-on hole, without anti-slip plate

Form D with screw-on hole, with anti-slip plate



Order No.	Form	D	H	Load rating max. kN
27802-30801	C	80	18	30
27802-40801	D	80	20	30

Swivel feet plates

stainless steel



Material:

Plates, stainless steel 1.4301.
Core, thermoplastic PA.
Rubber support TPE.

Version:

Plate bright.
Rubber support light grey with sealing lip, hardness 70 Shore A.
Temp. range -20°C to +100°C.

Sample order:

nIm 27803-1060
nIm 27803-1060 and 27810-060152 **assembled**

Note for ordering:

If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix "**assembled**" to the order number for the plate and the spindle or ball joint. (e.g. 27803-1060 and 27810-060152 **assembled**).

Note:

The rubber support is joined with the stainless steel plate and the PA core by injection moulding. The rubber support is resistant to oil and water (up to 60 °C). In addition, it is furnished with antibacterial and antimicrobial protection and is thus outstandingly suited for sectors in the foods industry.

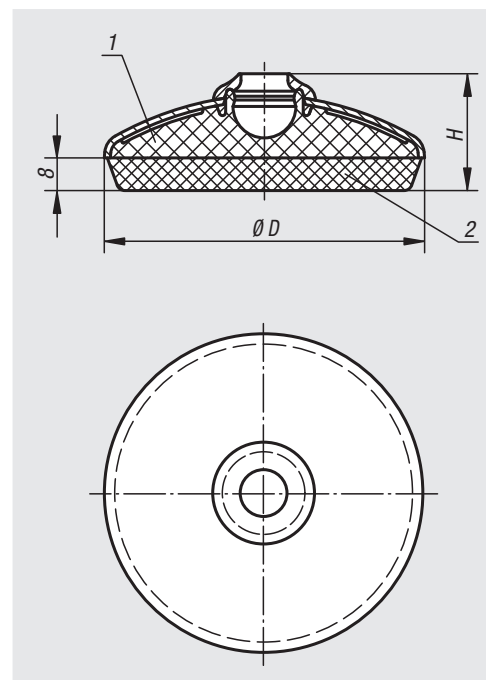
Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint.

For matching threaded spindles see 27810.

For matching ball joints see 27811.

Drawing reference:

- 1) PA-core
- 2) rubber base



Order No.	D	H	Load rating max. kN
27803-1060	58,5	29	7
27803-1080	78,5	29	7
27803-1100	98,5	29	7

Technical information

Swivel feet and plates with vibration absorption

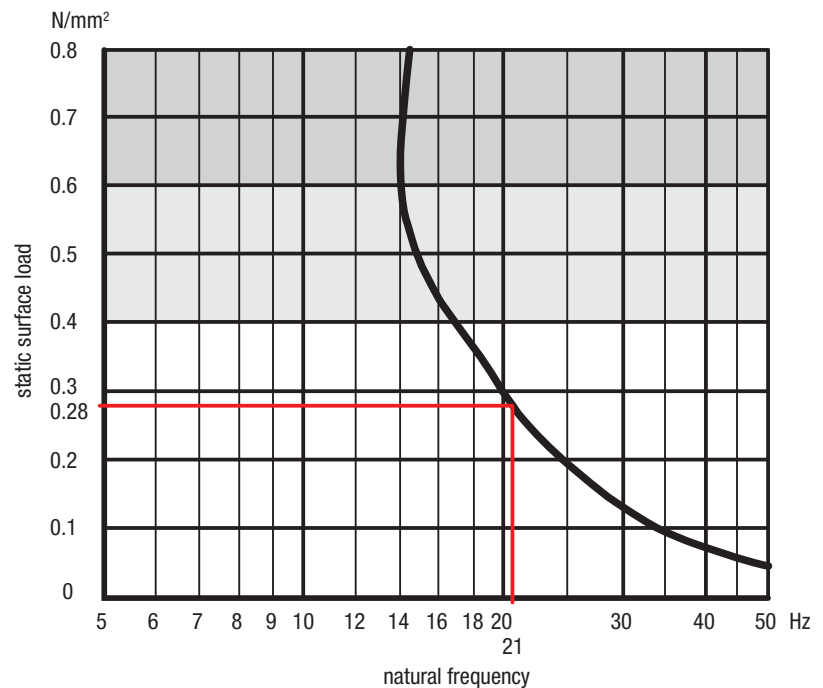
Natural frequency:

Every sprung weight, such as a machine or piece of equipment, that is standing on swivel feet with vibration absorbers vibrates after an initial impetus at its own natural frequency (resonance frequency). In the diagram to the side (Fig. 1) the natural frequency of Sylomer V12 under pressure by various forces can be read. The optimum range of use is with a pressure of ≤ 0.4 N/mm. A maximum pressure of 0.6 N/mm should not be exceeded.

Interference frequency:

The frequency emitted by a machine or a piece of equipment is known as its interference frequency. Effective vibration absorption is dependent on the interference frequency (the frequency to be absorbed) and the natural frequency of the absorption unit. The greater the difference in frequency between the natural frequency and the interference frequency, the better the absorption. An absorbing effect will only be achieved if the interference frequency is over $\sqrt{2}$ times the natural frequency of the absorption unit.

Fig. 1



Calculation example:

Swivel foot: M12, D1=30,5
Loading: 300N

$$\text{Pressure: } \frac{F}{A} = \frac{300 \text{ N}}{529,5 \text{ mm}^2} = 0,57 \text{ N/mm}^2$$

$> 0,4 \text{ N/mm}^2$

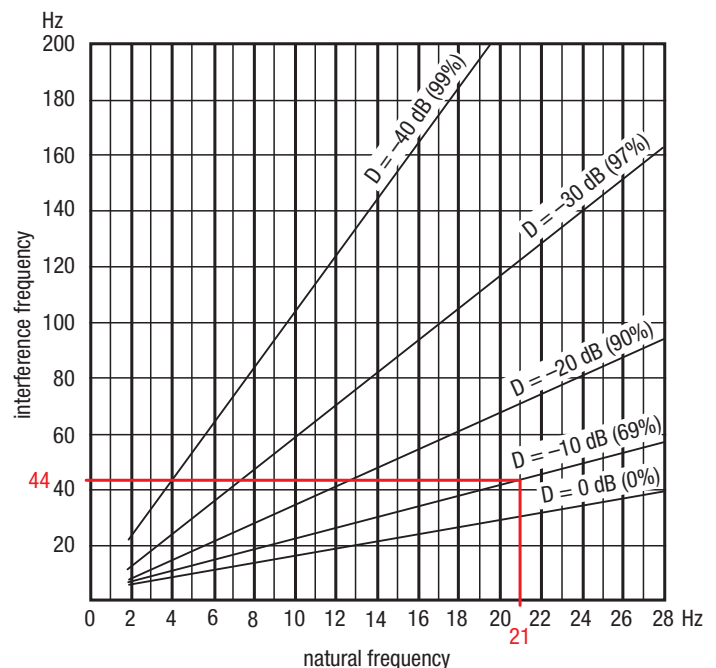
Swivel foot: M16, D1=40,5
Loading: 300N

$$\text{Pressure: } \frac{F}{A} = \frac{300 \text{ N}}{1087,2 \text{ mm}^2} = 0,28 \text{ N/mm}^2$$

$< 0,4 \text{ N/mm}^2$

The M16 swivel foot is chosen since the pressure is ≤ 0.4 N/mm².
From Fig. 1, a pressure of **0.28 N/mm²** gives a natural frequency of **21 Hz**.
With an interference frequency of **44 Hz** an absorption effect of 69% is achieved (Fig. 2).

Fig. 2



Swivel foot plates

with vibration absorption



Material:

Plate die-cast zinc or stainless steel 1.4305.
Damper plate PUR elastomere (Sylomer V12).

Version:

Die-cast zinc plate, black powder-coated.
Stainless steel plate, bright.
Damper plate, grey, glued in, anti-slip.
Temp. range -30 °C to +70 °C.

Sample order:

nlm 27804-20601

nlm 27804-20601 and 27810-060151 **assembled**

Note for ordering:

If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint. (e.g. 27804-20601 and 27810-060151 **assembled**.)

Note:

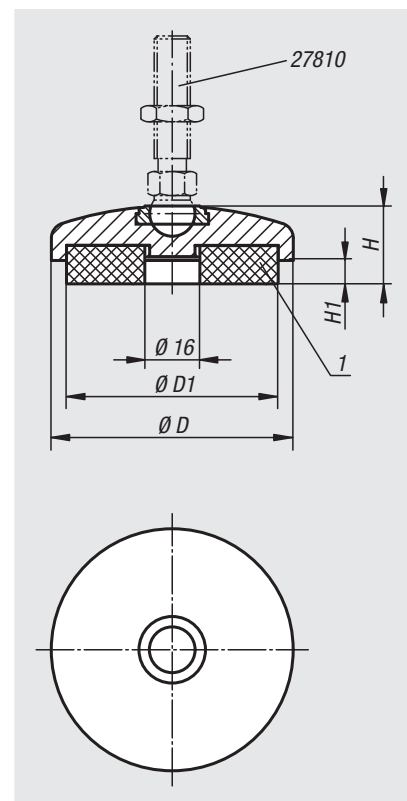
The load rating given in the table is a recommendation of the **permanent static** load up to which the absorption unit should be used. This static load corresponds to a pressure per area of 0.4 N/mm², at which the material achieves its optimum absorption properties. Here it is taken into account that under dynamic demands an additional load, up to 0.6 N/mm² may occur. The damper plate absorbs vibrations and prevents the swivel foot slipping. Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint.

For matching threaded spindles see 27810.

For matching ball joints see 27811.

Drawing reference:

1) damper plate



Order No.	Main material	D	D1	H	H1 by 0 / 0.4 / 0.6 N/mm ²	Load rating max. kN
27804-20401	zinc	40	30,5	25	7 / 5,9 / 4,8	0,062
27804-20501	zinc	50	40,5	25	7 / 5,9 / 4,8	0,212
27804-20601	zinc	60	50	25	7 / 5,9 / 4,8	0,433
27804-20801	zinc	80	68	25	7 / 5,9 / 4,8	0,614
27804-20402	stainless steel	40	30,5	25	7 / 5,8 / 4,9	0,212
27804-20502	stainless steel	50	40,5	25	7 / 5,8 / 4,9	0,435
27804-20602	stainless steel	60	50	25	7 / 5,8 / 4,9	0,705
27804-20802	stainless steel	80	68	25	7 / 5,8 / 4,9	1,372

Swivel feet

with vibration absorption



Material:

Steel version:

Foot high carbon steel.

Ball element free-cutting steel.

Stainless steel version:

Foot and ball element stainless steel.

Damper plate PUR elastomer (Sylomer V12).

Version:

Steel version:

Foot black oxidised.

Ball element case-hardened and black oxidised.

Stainless steel version:

Bright.

Anti-slip damper plate grey, glued in.

Temp. range -30 °C to +70 °C.

Sample order:

nIm 27806-110

Note:

The load rating given in the table is a recommendation of the **permanent static** load to which the damping element should be used.

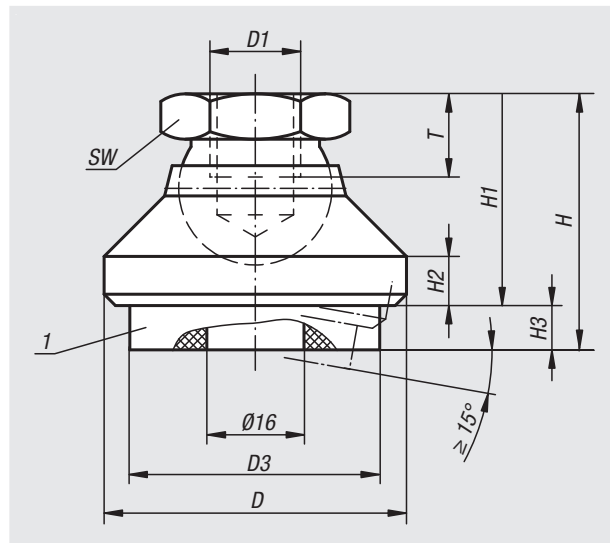
This static load corresponds to a surface pressure of 0.4 N/mm² at which the material achieves its optimum absorption properties. It is taken into account that under dynamic loading an additional load of up to 0.6 N/mm² may occur.

The damper plate absorbs vibrations and prevents the swivel foot slipping.

For swivel feet without vibration absorption see article No. 07144.

Drawing reference:

1) damper plate



Order No.	Main material	D	D1	D3	H	H1	H2	H3 by 0 / 0.4 / 0.6 N/mm ²	T	SW	Load rating max. kN
27806-110	steel	32	M10	30,5	30	22	5	8 / 6,8 / 5,9	10	17	0,212
27806-112	steel	40	M12	30,5	34	26	6	8 / 6,8 / 5,9	12	19	0,212
27806-116	steel	50	M16	40,5	40	32	7	8 / 6,8 / 5,9	14	24	0,435
27806-120	steel	60	M20	50	50	42	8	8 / 6,8 / 5,9	18	30	0,705
27806-310	stainless steel	32	M10	30,5	30	22	5	8 / 6,8 / 5,9	10	17	0,212
27806-312	stainless steel	40	M12	30,5	34	26	6	8 / 6,8 / 5,9	12	19	0,212
27806-316	stainless steel	50	M16	40,5	40	32	7	8 / 6,8 / 5,9	14	24	0,435
27806-320	stainless steel	60	M20	50	50	42	8	8 / 6,8 / 5,9	18	30	0,705

Machine feet

with vibration absorption



Material:

Plate steel or stainless steel 1.4404.

Damper plate PUR elastomer (Sylomer V12).

Version:

Plate trivalent blue passivated or bright.

Damper plate grey, glued in, anti-slip.

Temp. range -30 °C to +70 °C.

Sample order:

nlm 27808-046

Note:

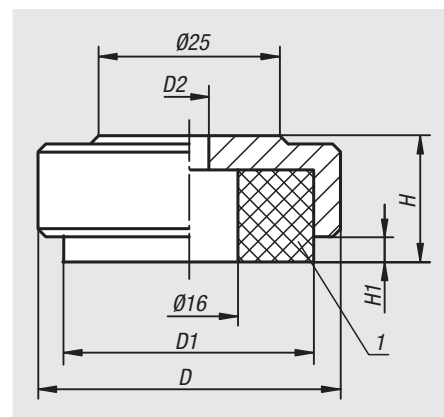
The load rating given in the table is a recommendation of the **permanent static** load up to which the damper plate should be used.

This static load corresponds to a surface pressure of 0.4 N/mm², at which the material reaches its optimum absorption properties. Here it is taken into account that under dynamic loading an additional load of up to 0.6 N/mm² may occur.

The damper plate absorbs vibrations and prevents the machine foot slipping.

Drawing reference:

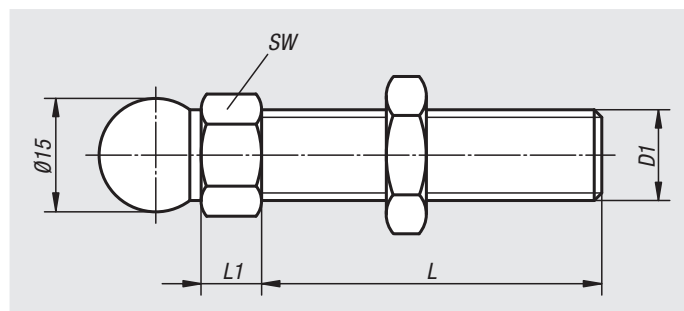
1) damper plate



Order No.	Main material	D	D1	D2	H	H1 by 0 / 0.4 / 0.6 N/mm ²	Load rating max. kN
27808-036	steel	36	30,5	5,5	15	4 / 2,8 / 1,9	0,212
27808-046	steel	46	40,5	6,6	17	4 / 2,8 / 1,9	0,435
27808-056	steel	56	50	9	19	4 / 2,8 / 1,9	0,705
27808-074	steel	74	68	9	21	4 / 2,8 / 1,9	1,372
27808-1036	stainless steel	36	30,5	5,5	15	4 / 2,8 / 1,9	0,212
27808-1046	stainless steel	46	40,5	6,6	17	4 / 2,8 / 1,9	0,435
27808-1056	stainless steel	56	50	9	19	4 / 2,8 / 1,9	0,705

Swivel feet threaded spindles

steel or stainless steel



Material:

Steel or 1.4305 stainless steel

Version:

Steel trivalent blue passivated.

Stainless steel, bright.

Sample order:

nlm 27810-060151

nlm 27810-060151 and 27800-1030 **assembled**

Note for ordering:

If the threaded spindle and the plate are to be supplied assembled, please add the suffix **"assembled"** to the order number for the spindle and plate. (e.g. 27810-060151 and 27800-1030 **assembled**.)

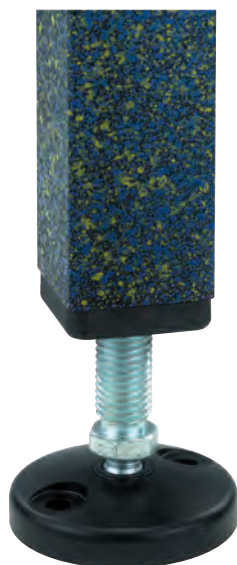
Note:

Swivel feet consist of a plate and threaded spindle combined together. Any threaded spindle can be combined with any plate.

The height of the complete swivel foot can be calculated from the length of the threaded spindle + height of hexagon + 22.5 mm.

(Overall height of swivel foot = $L + L1 + 22.5$ mm)

Depending on the version, threaded spindles can have a thread undercut in front of the hexagon.



Order No. steel	Order No. stainless steel	D1	L	L1	SW	Load rating max. kN
27810-060151	27810-060152	M6	15	7,5	14	2
27810-060301	27810-060302	M6	30	7,5	14	2
27810-080401	27810-080402	M8	40	7,5	14	3,5
27810-080801	27810-080802	M8	80	7,5	14	3,5
27810-100451	27810-100452	M10	45	7,5	14	4,7
27810-100701	27810-100702	M10	70	7,5	14	4,7
27810-100901	27810-100902	M10	90	7,5	14	4,7
27810-101251	27810-101252	M10	125	7,5	14	4,7
27810-101501	27810-101502	M10	150	7,5	14	4,7
27810-120451	27810-120452	M12	45	7,5	14	7,7
27810-120661	27810-120662	M12	66	7,5	14	7,7
27810-121001	27810-121002	M12	100	7,5	14	7,7
27810-121251	27810-121252	M12	125	7,5	14	7,7
27810-121501	27810-121502	M12	150	7,5	14	7,7
27810-140661	27810-140662	M14	66	7,5	14	11,1
27810-141001	27810-141002	M14	100	7,5	14	11,1
27810-141251	27810-141252	M14	125	7,5	14	11,1
27810-141501	27810-141502	M14	150	7,5	14	11,1
27810-160661	27810-160662	M16	66	7,5	17	14,5
27810-161001	27810-161002	M16	100	7,5	17	14,5
27810-161251	27810-161252	M16	125	7,5	17	14,5
27810-161501	27810-161502	M16	150	7,5	17	14,5
27810-162001	27810-162002	M16	200	7,5	17	14,5
27810-200851	27810-200852	M20	85	10,5	22	24,3
27810-201001	27810-201002	M20	100	10,5	22	24,3
27810-201251	27810-201252	M20	125	10,5	22	24,3
27810-201501	27810-201502	M20	150	10,5	22	24,3
27810-202001	27810-202002	M20	200	10,5	22	24,3
27810-240851	27810-240852	M24	85	10,5	24	36,1
27810-241001	27810-241002	M24	100	10,5	24	36,1
27810-241251	27810-241252	M24	125	10,5	24	36,1
27810-241501	27810-241502	M24	150	10,5	24	36,1
27810-242001	27810-242002	M24	200	10,5	24	36,1

Swivel feet ball joints

with internal thread



Material:

Steel or stainless steel 1.4301.

Version:

Steel trivalent blue passivated.

Stainless steel, bright.

Sample order:

nIm 27811-061

nIm 27811-061 and 27800-1030 **assembled**

Note for ordering:

If the ball joint and the plate are to be supplied assembled, please add the suffix "**assembled**" to the order number for the ball joint and plate. (e.g. 27811-061 and 27800-1030 **assembled**.)

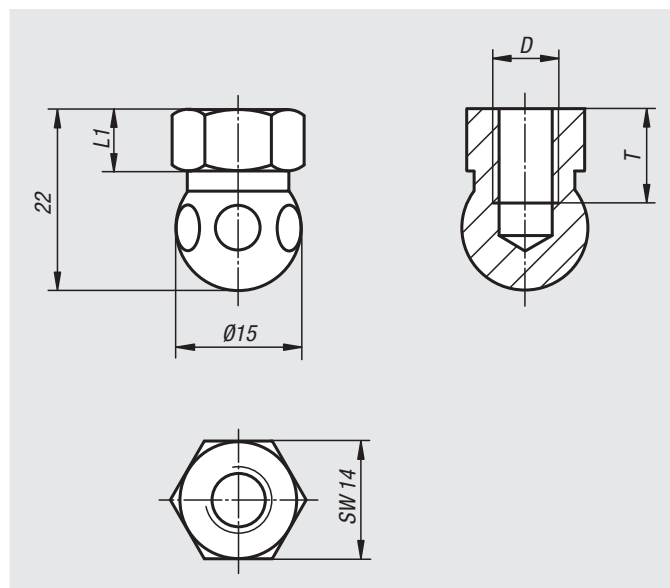
Note:

For fastening swivel feet with standard screws.

Swivel feet consist of a ball joint and a plate. Any ball joint can be combined with any plate.

The height of the complete swivel foot is calculated by the height of the hexagon + 22.5 mm.

(Overall height of swivel foot = L1 + 22.5 mm).



Order No. steel	Order No. stainless steel	D	L1	T
27811-061	27811-062	M6	7,5	10
27811-081	27811-082	M8	7,5	10

Modular structure of a levelling foot

Application:

Levelling feet are of modular design. The components can be individually combined to match the application. Levelling feet can be used on machines, plants and even office furniture.

Modular design:

The levelling feet consist of two components - a plate and a threaded spindle. **Any** plate can be combined with **any** threaded spindle (see Fig. 1).

Mounting:

Insert the threaded spindle vertically into the levelling foot plate and fasten it from underneath with a spacer ring, washer and screw (no unintentional loosening of threaded spindle from the plate). If necessary, the two fastening holes (closed) in the levelling foot plate can be opened by simply punching them out to allow the levelling foot to be bolted to the floor.

Levelling feet height:

Regardless of the plate or threaded spindle size, levelling feet always have a minimum height of $H = 30$ mm (see Fig. 2). The height of the complete levelling foot is calculated from the length of the threaded spindle + 30 mm. (Total height of levelling foot = $L + 30$ mm).

Note for ordering:

If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix "**assembled**" to the order number for the plate and spindle (see sample order on the relevant product page).

Fig. 1

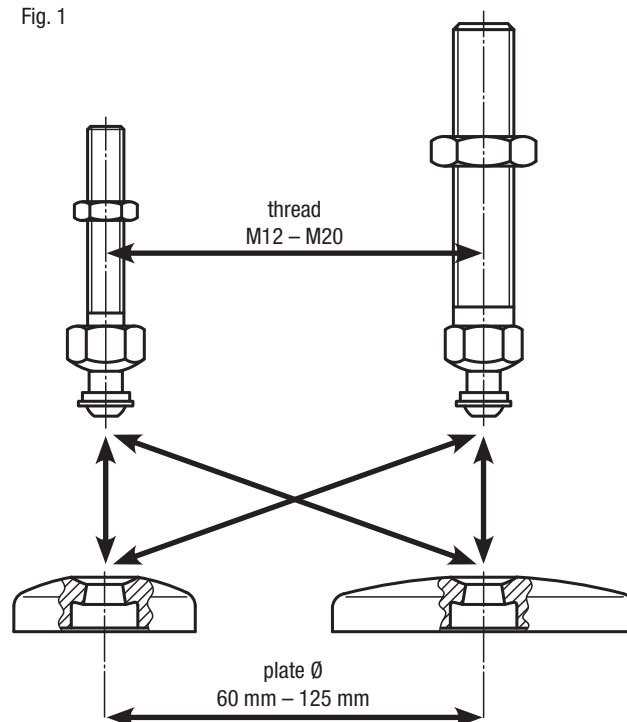
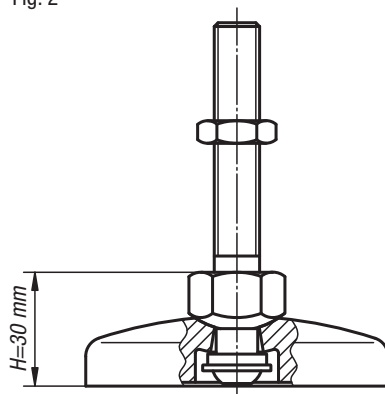


Fig. 2



Inclination angle of threaded spindle:



Levelling foot plates

plastic



Material:

Plates, thermoplastic, fibreglass reinforced.
Anti-slip plate thermoplastic elastomer.

Version:

black.

Sample order:

nlm 27815-1060

nlm 27815-1060 and 27828-120661 **assembled**

Note for ordering:

If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix "**assembled**" to the order number for the plate and spindle. (e.g. 27815-1060 and 27828-120661 **assembled**.)

Note:

Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle.

The anti-slip plate absorbs vibrations and prevents the levelling foot slipping.

For matching threaded spindles see 27828.

Drawing reference:

Form A without screw-on hole, without anti-slip plate

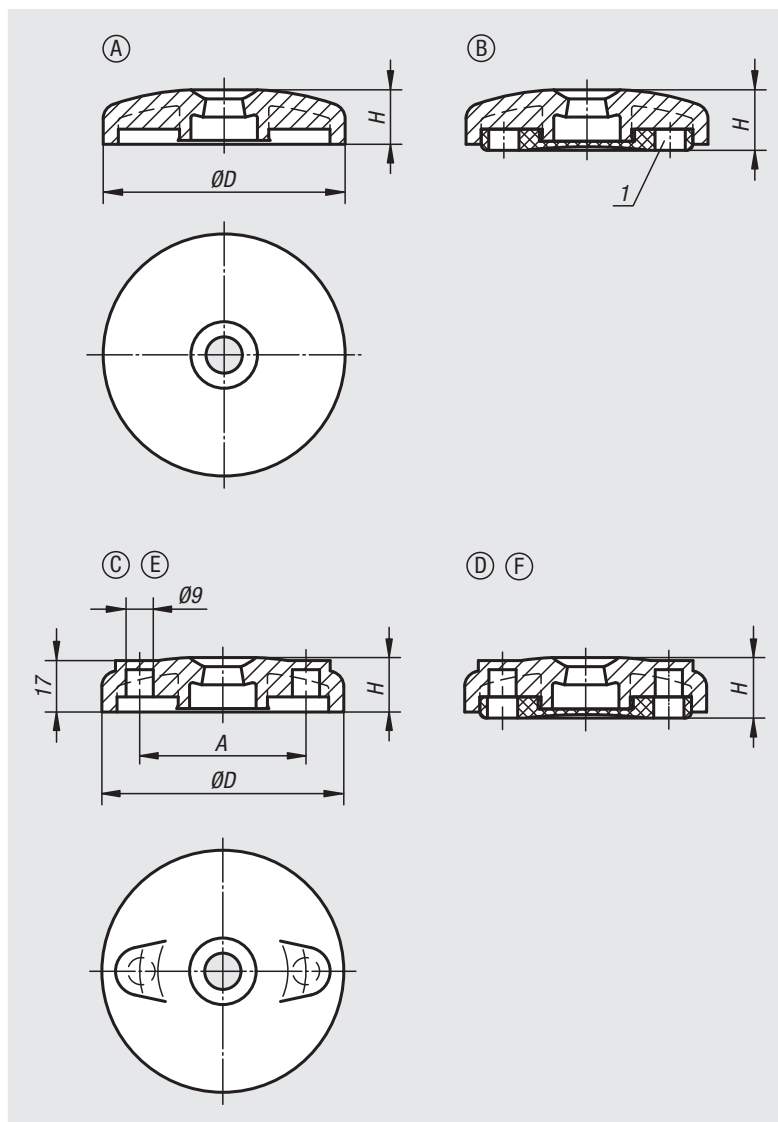
Form B without screw-on hole, with anti-slip plate

Form C with screw-on hole (closed), without anti-slip plate

Form D with screw-on hole (closed), with anti-slip plate

Form E with screw-on hole (open), without anti-slip plate

Form F with screw-on hole (open), with anti-slip plate



1) From plate Ø 80

Order No.	Form	D	A	H	Load rating max. kN
27815-1060	A	60	-	18	12
27815-1080	A	80	-	18	12
27815-1100	A	100	-	18	12
27815-2060	B	60	-	20	12
27815-2080	B	80	-	20	12
27815-2100	B	100	-	20	12
27815-3080	C	80	55	18	12
27815-3100	C	100	74	18	12
27815-4080	D	80	55	20	12
27815-4100	D	100	74	20	12
27815-5080	E	80	55	18	12
27815-5100	E	100	74	18	12
27815-6080	F	80	55	20	12
27815-6100	F	100	74	20	12

Levelling foot plates

plastic, heavy-duty version



Material:

Plates, thermoplastic, fibreglass reinforced.
Anti-slip plate thermoplastic elastomer.

Version:

black.

Sample order:

nIm 27816-31251

nIm 27816-31251 and 27828-120661 **assembled**

Note for ordering:

If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix "**assembled**" to the order number for the plate and spindle. (e.g. 27816-31251 and 27828-120661 **assembled**.)

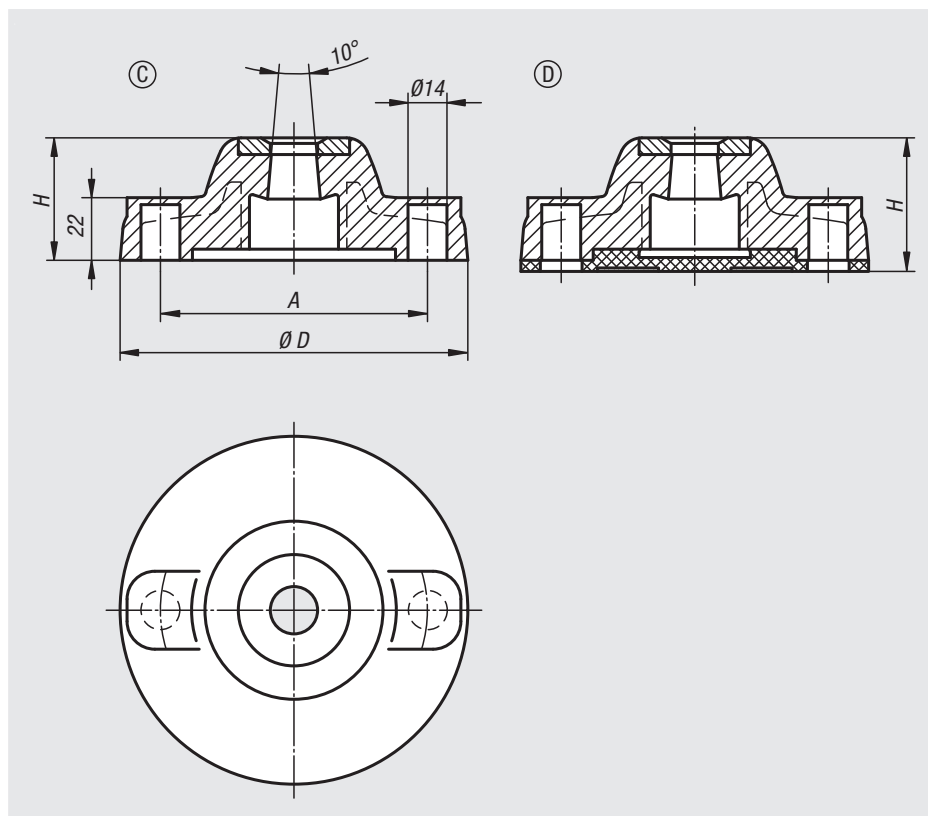
Note:

Levelling feet consist of a plate and a threaded spindle.
Any plate can be combined with any threaded spindle.
The anti-slip plate absorbs vibrations and prevents the levelling foot slipping.
For matching threaded spindles see 27828.

Drawing reference:

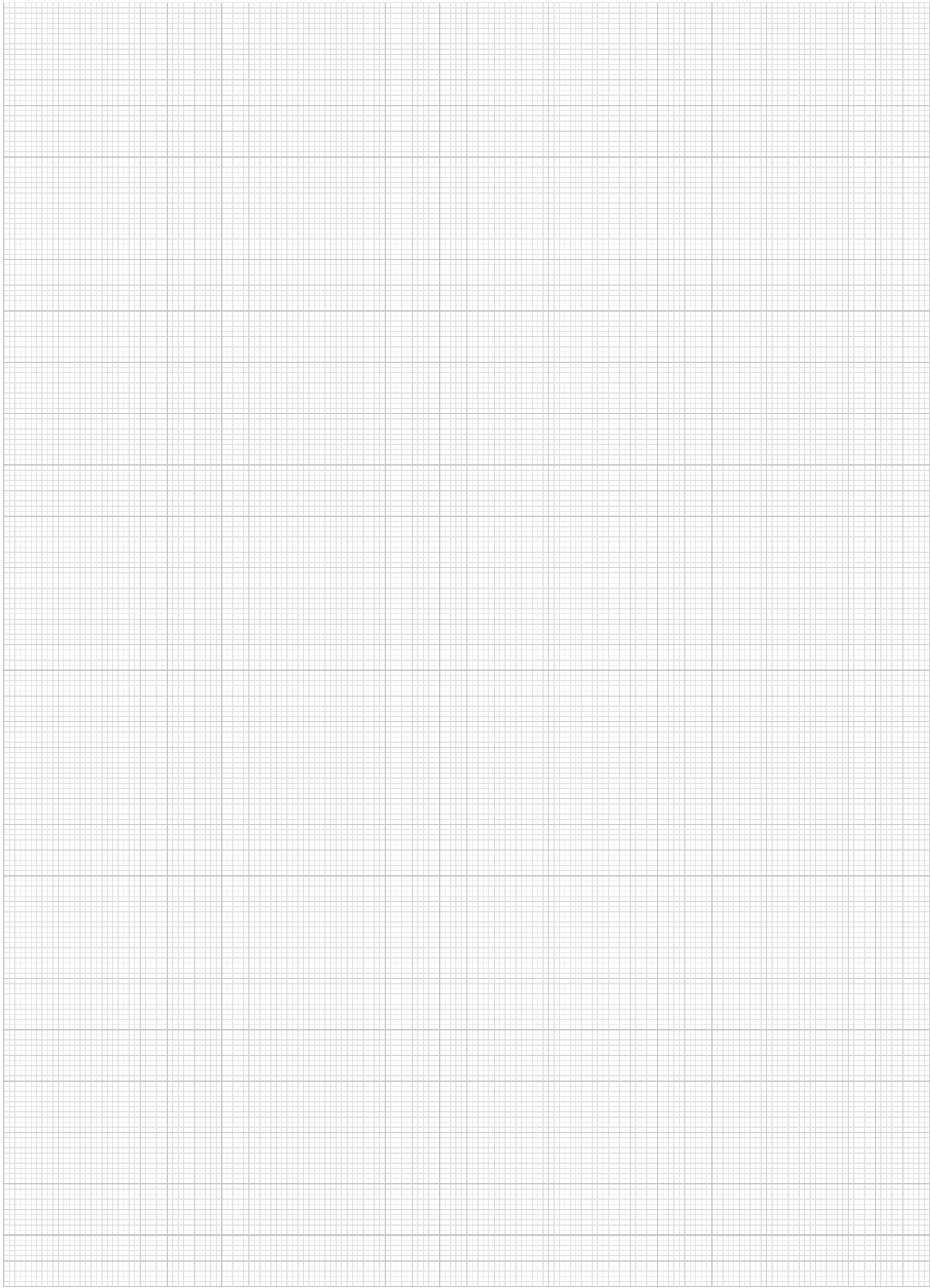
Form C with screw-on hole (closed), without anti-slip plate

Form D with screw-on hole (closed), with anti-slip plate



Order No.	Form	D	A	H	Load rating max. kN
27816-31251	C	125	96	44	18
27816-31751	C	175	135	45	25
27816-41251	D	125	96	48	18
27816-41751	D	175	135	49	25

Notes



20000
21000
22000
23000
24000
26000
27000
28000
29000
31000
32000
33000

Levelling foot plates

die-cast zinc or stainless steel



Material:

Plate die-cast zinc or stainless steel 1.4305.
Anti-slip plate thermoplastic elastomer.

Version:

Die-cast zinc plate, black powder-coated.
Stainless steel plate, bright.

Sample order:

nlm 27817-10601

nlm 27817-10601 and 27828-120661 **assembled**

Note for ordering:

If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix "**assembled**" to the order number for the plate and spindle.
(e.g. 27817-10601 and 27828-120661 **assembled**).

Note:

Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle.
The anti-slip plate absorbs vibrations and prevents the levelling foot slipping.
For matching threaded spindles see 27828.

Drawing reference:

Form A

without screw-on hole, without anti-slip plate

Form B

without screw-on hole, with anti-slip plate

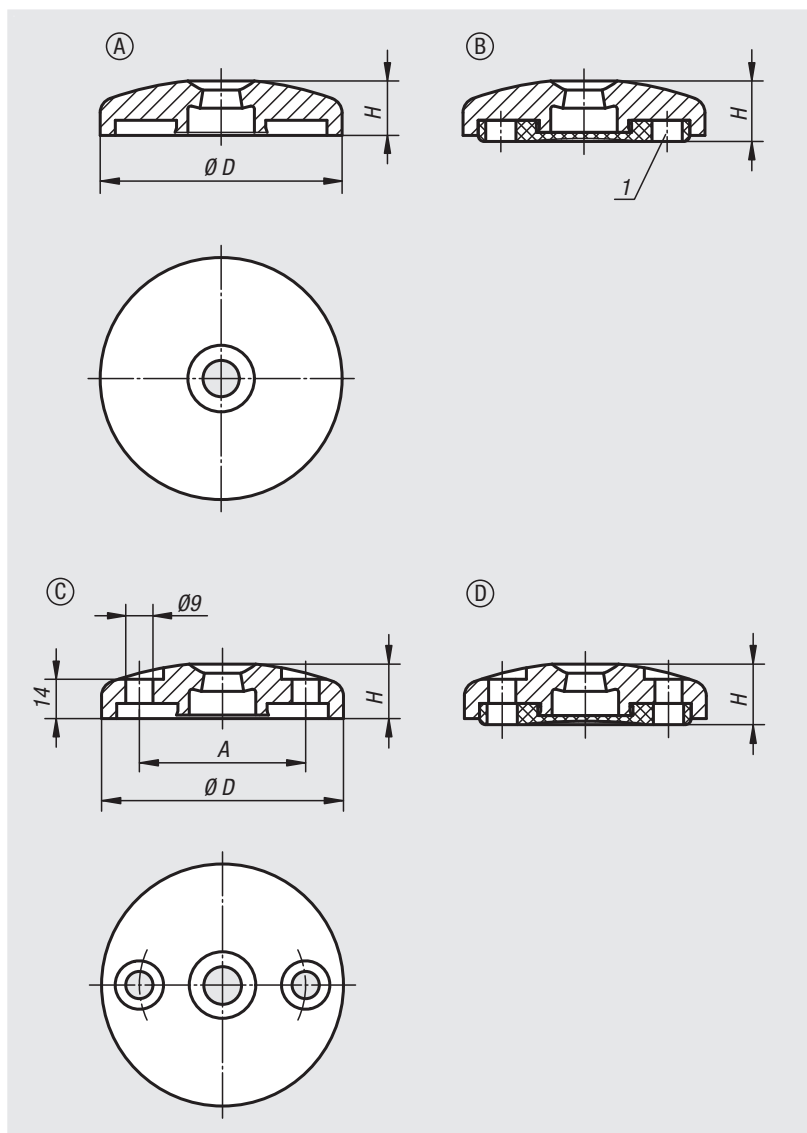
Form C

with screw-on hole (open), without anti-slip plate

Form D

with screw-on hole (open), with anti-slip plate

1) From plate Ø 80



Levelling feet plates

die-cast zinc or stainless steel

Order No.	Form	Main material	D	A	H	Load rating max. kN
27817-10401	A	zinc	40	-	18	20
27817-10451	A	zinc	45	-	18	25
27817-10501	A	zinc	50	-	18	25
27817-10601	A	zinc	60	-	18	35
27817-10801	A	zinc	80	-	18	35
27817-11001	A	zinc	100	-	18	35
27817-11201	A	zinc	120	-	18	35
27817-10602	A	stainless steel	60	-	18	45
27817-10802	A	stainless steel	80	-	18	45
27817-11002	A	stainless steel	100	-	18	45
27817-20601	B	zinc	60	-	20	35
27817-20801	B	zinc	80	-	20	35
27817-21001	B	zinc	100	-	20	35
27817-21201	B	zinc	120	-	20	35
27817-20602	B	stainless steel	60	-	20	45
27817-20802	B	stainless steel	80	-	20	45
27817-21002	B	stainless steel	100	-	20	45
27817-30801	C	zinc	80	55	18	35
27817-31001	C	zinc	100	74	18	35
27817-30802	C	stainless steel	80	55	18	45
27817-31002	C	stainless steel	100	74	18	45
27817-40801	D	zinc	80	55	20	35
27817-41001	D	zinc	100	74	20	35
27817-40802	D	stainless steel	80	55	20	45
27817-41002	D	stainless steel	100	74	20	45

Levelling feet plates extended

die-cast zinc



Material:

Plate die-cast zinc.

Anti-slip plate thermoplastic elastomer.

Version:

Plate black powder-coated.

Sample order:

nIm 27818-30801

nIm 27818-30801 and 27828-120661 **assembled**

Note for ordering:

If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix "**assembled**" to the order number for the plate and spindle. (e.g. 27818-30801 and 27828-120661 **assembled**.)

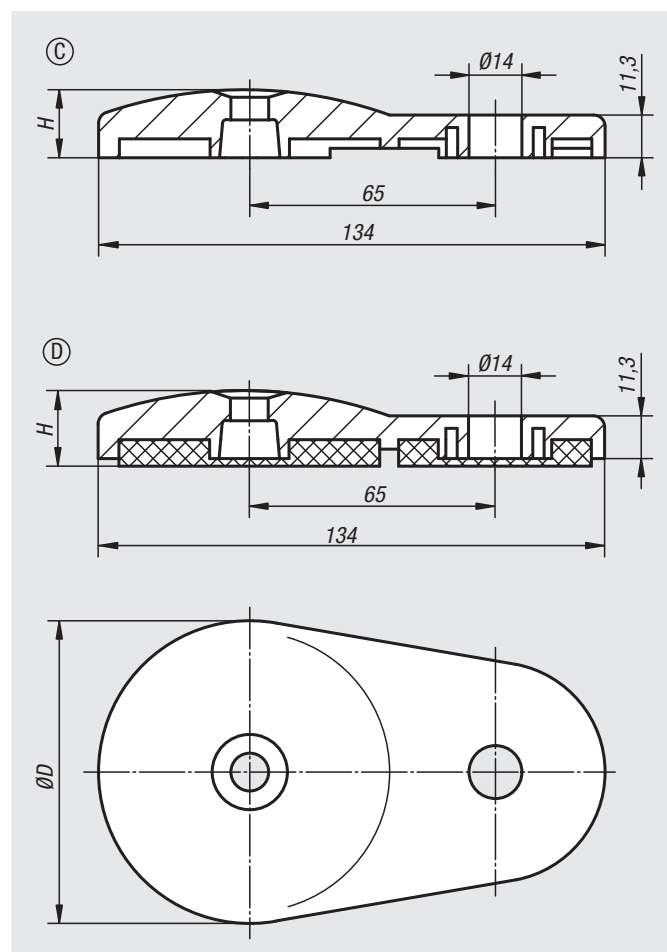
Note:

Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle. The anti-slip plate absorbs vibrations and prevents the levelling foot slipping. For matching threaded spindles see 27828.

Drawing reference:

Form C with screw-on hole, without anti-slip plate

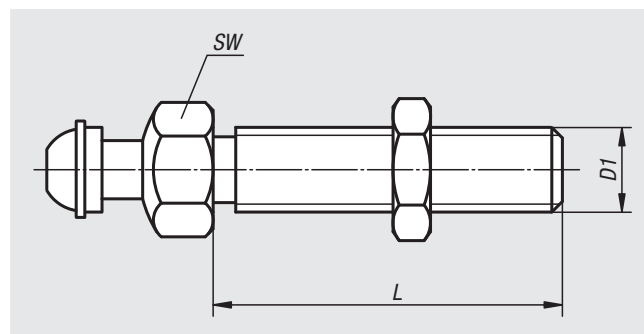
Form D with screw-on hole, with anti-slip plate



Order No.	Form	D	H	Load rating max. kN
27818-30801	C	80	18	35
27818-40801	D	80	20	35

Levelling feet threaded spindles

steel or stainless steel



Material:

Steel or 1.4305 stainless steel

Version:

Steel trivalent blue passivated.

Stainless steel, bright.

Sample order:

nlm 27828-120661

nlm 27828-120661 and 27815-1060 **assembled**

Note for ordering:

If the threaded spindle and the levelling foot plate are to be supplied assembled, please add the suffix **"assembled"** to the order number for the spindle and plate. (e.g. 27828-120661 and 27815-1060 **assembled**.)

Note:

Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle. The height of the complete levelling foot is calculated from the length of the threaded spindle + 30 mm. (Total height of levelling foot = L + 30 mm)

Order No. steel	Order No. stainless steel	D1	L	SW	Load rating max. kN
27828-120661	27828-120662	M12	66	22	7,7
27828-121001	27828-121002	M12	100	22	7,7
27828-121251	27828-121252	M12	125	22	7,7
27828-121501	27828-121502	M12	150	22	7,7
27828-160661	27828-160662	M16	66	22	14,5
27828-161001	27828-161002	M16	100	22	14,5
27828-161251	27828-161252	M16	125	22	14,5
27828-161501	27828-161502	M16	150	22	14,5
27828-162001	27828-162002	M16	200	22	14,5
27828-201001	27828-201002	M20	100	22	24,3
27828-201251	27828-201252	M20	125	22	24,3
27828-201501	27828-201502	M20	150	22	24,3
27828-202001	27828-202002	M20	200	22	24,3

Modular structure of an ECO levelling foot

Application:

ECO levelling feet are of modular design. The components can be individually combined to match the application. However, the threaded spindle is not screwed but pressed in permanently. The levelling feet are used for a wide range of machines, plants and even office furniture.

Modular design:

The levelling feet consist of two components - a plate and a threaded spindle. **Any** plate can be combined with **any** threaded spindle (see Fig. 1).

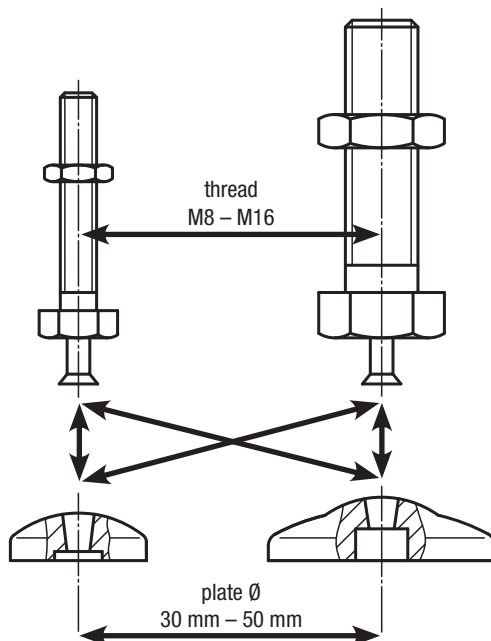
Assembly:

Place levelling foot plate on threaded spindle and press pin in up to collar (threaded spindle cannot be inadvertently removed from plate).

Note for ordering:

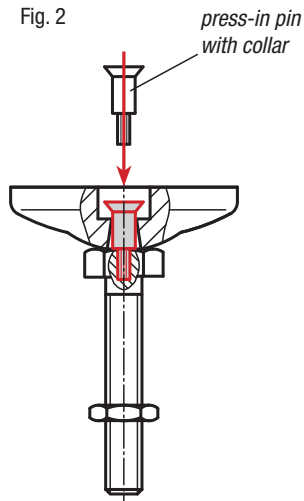
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle (see sample order on the relevant product page).

Fig. 1



Inclination angle of threaded spindle:

Fig. 2



Levelling feet plates ECO

die-cast zinc, stainless steel or plastic



Material:

Plate thermoplastic, die-cast zinc or stainless steel 1.4305.
Anti-slip plate thermoplastic elastomer.

Version:

Thermoplastic plate black.
Die-cast zinc plate blue electro zinc-plated.
Stainless steel plate bright.

Sample order:

nln 27830-10303

nln 27830-10303 and 27832-080801 **assembled**

Note for ordering:

If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle. (e.g. 27830-10303 and 27832-080801 **assembled**).

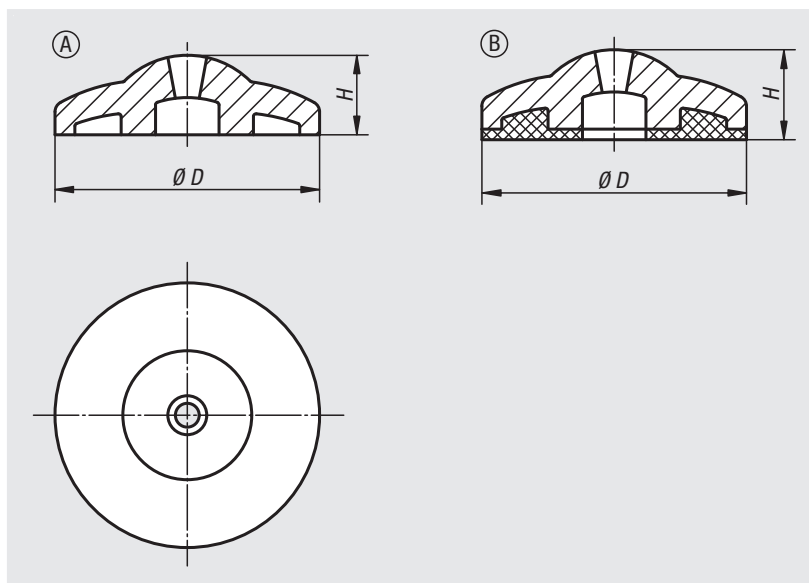
Note:

ECO levelling feet consist of a plate and a threaded spindle.
Any plate can be combined with any threaded spindle.
The anti-slip plate absorbs vibrations and prevents the levelling foot slipping.
For matching threaded spindles see 27832.

Drawing reference:

Form A without anti-slip plate

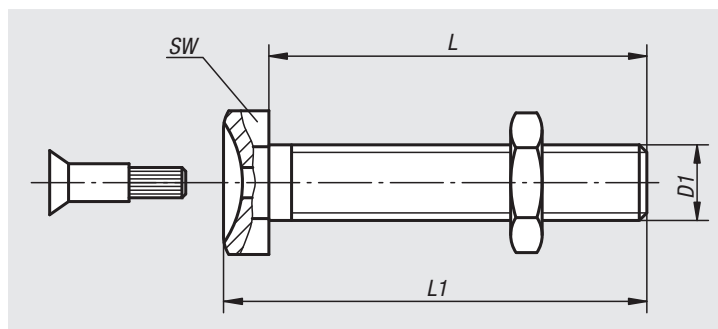
Form B with anti-slip plate



Order No.	Form	Main material	D	H	Load rating max. kN
27830-10301	A	zinc	30	11,5	16
27830-10401	A	zinc	40	12	18
27830-10501	A	zinc	50	14,5	20
27830-20301	B	zinc	30	13,5	16
27830-20401	B	zinc	40	14,5	18
27830-20501	B	zinc	50	17,5	20
27830-10302	A	stainless steel	30	11,5	22
27830-10402	A	stainless steel	40	12	24
27830-10502	A	stainless steel	50	14,5	26
27830-20302	B	stainless steel	30	13,5	22
27830-20402	B	stainless steel	40	14,5	24
27830-20502	B	stainless steel	50	17,5	26
27830-10303	A	thermoplastic	30	11,5	15
27830-10403	A	thermoplastic	40	12	15
27830-10503	A	thermoplastic	50	14,5	15
27830-20303	B	thermoplastic	30	13,5	15
27830-20403	B	thermoplastic	40	14,5	15
27830-20503	B	thermoplastic	50	17,5	15

Levelling feet ECO threaded spindles

steel or stainless steel



Material:

Steel or 1.4305 stainless steel

Version:

Steel trivalent blue passivated.

Stainless steel, bright.

Sample order:

nlm 27832-101201

nlm 27832-101201 and 27830-10301 **assembled**

Note for ordering:

If the threaded spindle and the levelling foot plate are to be supplied assembled, please add the suffix **"assembled"** to the order number for the spindle and plate. (e.g. 27832-080251 and 27830-10301 **assembled**.)

Note:

ECO levelling feet consist of a threaded spindle and a plate. Any threaded spindle can be combined with any plate.

Order No. steel	Order No. stainless steel	D1	L	L1	SW	Load rating max. kN
27832-080251	27832-080252	M8	25	29,5	13	3,5
27832-080401	27832-080402	M8	40	44,5	13	3,5
27832-080501	27832-080502	M8	50	54,5	13	3,5
27832-080701	27832-080702	M8	70	74,5	13	3,5
27832-080801	27832-080802	M8	80	84,5	13	3,5
27832-081001	27832-081002	M8	100	104,5	13	3,5
27832-081201	27832-081202	M8	120	124,5	13	3,5
27832-100251	27832-100252	M10	25	30	17	4,7
27832-100401	27832-100402	M10	40	45	17	4,7
27832-100501	27832-100502	M10	50	55	17	4,7
27832-100701	27832-100702	M10	70	75	17	4,7
27832-100801	27832-100802	M10	80	85	17	4,7
27832-101001	27832-101002	M10	100	105	17	4,7
27832-101201	27832-101202	M10	120	125	17	4,7
27832-120251	27832-120252	M12	25	31	19	7,7
27832-120401	27832-120402	M12	40	46	19	7,7
27832-120501	27832-120502	M12	50	56	19	7,7
27832-120701	27832-120702	M12	70	76	19	7,7
27832-120801	27832-120802	M12	80	86	19	7,7
27832-121001	27832-121002	M12	100	106	19	7,7
27832-121201	27832-121202	M12	120	126	19	7,7
27832-160501	27832-160502	M16	50	58,5	24	14,5
27832-161001	27832-161002	M16	100	108,5	24	14,5
27832-161501	27832-161502	M16	150	158,5	24	14,5

Ducks feet



Material:
Die-cast aluminium.

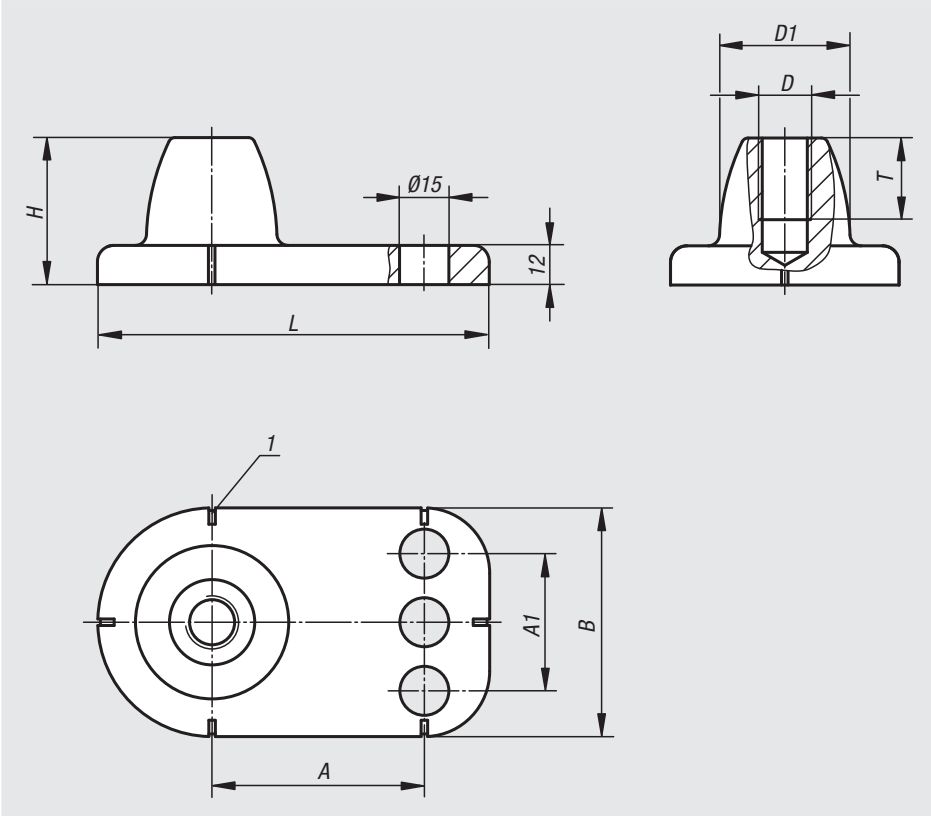
Version:
Bright, vibratory ground.

Sample order:
nlm 27833-161

Note:
Stabile levelling foot which is ideally suited for conveyor units. With aligning markings to precisely position the ducks feet.

Accessories:
Matching threaded rods 07640.

Drawing reference:
1) alignment marks



Order No.	A	A1	B	D	D1	H	L	T	Load capacity N
27833-161	65	-	70	M16	40	45	119,5	25	4000
27833-201	75	55	90	M20	52	50	139,5	27,5	6000

Tube inserts square

with tapped bush



Material:

Body fibreglass reinforced thermoplastic.
Threaded insert brass.

Version:

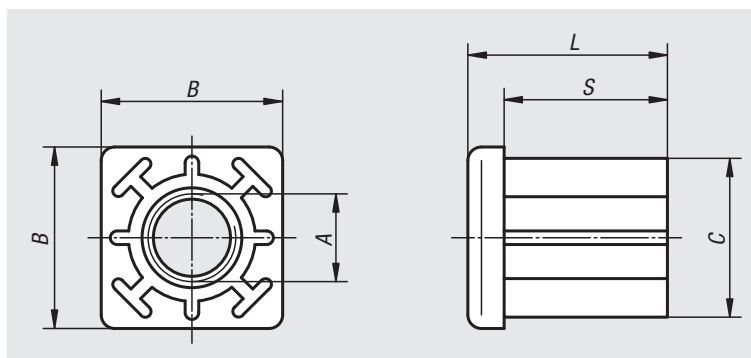
Insert black.
Tapped bush nickel-plated.

Sample order:

nlm 27835-103015

Note:

Threaded square inserts for attaching levelling feet, swivel feet and castors to square tubes.



Order No.	A	B	C	L	S	Suitable for square tubes	Load rating max. kN
27835-103015	M10	30	27,5	33	27	30 x 1,5	5
27835-123015	M12	30	27,5	33	27	30 x 1,5	5
27835-143015	M14	30	27,5	33	27	30 x 1,5	5
27835-163015	M16	30	27,5	33	27	30 x 1,5	5
27835-103020	M10	30	26,5	33	27	30 x 2	5
27835-123020	M12	30	26,5	33	27	30 x 2	5
27835-143020	M14	30	26,5	33	27	30 x 2	5
27835-163020	M16	30	26,5	33	27	30 x 2	5
27835-104015	M10	40	37,5	43	35	40 x 1,5	8
27835-124015	M12	40	37,5	43	35	40 x 1,5	8
27835-144015	M14	40	37,5	43	35	40 x 1,5	8
27835-164015	M16	40	37,5	43	35	40 x 1,5	8
27835-204015	M20	40	37,5	43	35	40 x 1,5	8
27835-104020	M10	40	36,5	43	35	40 x 2	10
27835-124020	M12	40	36,5	43	35	40 x 2	10
27835-144020	M14	40	36,5	43	35	40 x 2	10
27835-164020	M16	40	36,5	43	35	40 x 2	10
27835-204020	M20	40	36,5	43	35	40 x 2	10
27835-104025	M10	40	35,5	43	35	40 x 2,5	10
27835-124025	M12	40	35,5	43	35	40 x 2,5	10
27835-144025	M14	40	35,5	43	35	40 x 2,5	10
27835-164025	M16	40	35,5	43	35	40 x 2,5	10
27835-204025	M20	40	35,5	43	35	40 x 2,5	10
27835-104030	M10	40	34,5	43	35	40 x 3	10
27835-124030	M12	40	34,5	43	35	40 x 3	10
27835-144030	M14	40	34,5	43	35	40 x 3	10
27835-164030	M16	40	34,5	43	35	40 x 3	10
27835-204030	M20	40	34,5	43	35	40 x 3	10
27835-104040	M10	40	32,5	43	35	40 x 4	10
27835-124040	M12	40	32,5	43	35	40 x 4	10
27835-144040	M14	40	32,5	43	35	40 x 4	10

Order No.	A	B	C	L	S	Suitable for square tubes	Load rating max. kN
27835-164040	M16	40	32,5	43	35	40 x 4	10
27835-204040	M20	40	32,5	43	35	40 x 4	10
27835-125015	M12	50	47,5	55	44	50 x 1,5	8
27835-145015	M14	50	47,5	55	44	50 x 1,5	8
27835-165015	M16	50	47,5	55	44	50 x 1,5	8
27835-205015	M20	50	47,5	55	44	50 x 1,5	8
27835-125020	M12	50	46,5	55	44	50 x 2	12
27835-145020	M14	50	46,5	55	44	50 x 2	12
27835-165020	M16	50	46,5	55	44	50 x 2	12
27835-205020	M20	50	46,5	55	44	50 x 2	12
27835-125025	M12	50	45,5	55	44	50 x 2,5	12
27835-145025	M14	50	45,5	55	44	50 x 2,5	12
27835-165025	M16	50	45,5	55	44	50 x 2,5	12
27835-205025	M20	50	45,5	55	44	50 x 2,5	12
27835-125030	M12	50	44,5	55	44	50 x 3	12
27835-145030	M14	50	44,5	55	44	50 x 3	12
27835-165030	M16	50	44,5	55	44	50 x 3	12
27835-205030	M20	50	44,5	55	44	50 x 3	12
27835-125040	M12	50	42,5	55	44	50 x 4	12
27835-145040	M14	50	42,5	55	44	50 x 4	12
27835-165040	M16	50	42,5	55	44	50 x 4	12
27835-205040	M20	50	42,5	55	44	50 x 4	12
27835-146020	M14	60	56,5	55	45	60 x 2	12
27835-166020	M16	60	56,5	55	45	60 x 2	12
27835-206020	M20	60	56,5	55	45	60 x 2	12
27835-146030	M14	60	54,5	55	45	60 x 3	12
27835-166030	M16	60	54,5	55	45	60 x 3	12
27835-206030	M20	60	54,5	55	45	60 x 3	12
27835-146040	M14	60	52,5	55	45	60 x 4	12
27835-166040	M16	60	52,5	55	45	60 x 4	12
27835-206040	M20	60	52,5	55	45	60 x 4	12

Tube inserts round

with tapped bush



Material:

Body fibreglass reinforced thermoplastic.
Threaded insert brass.

Version:

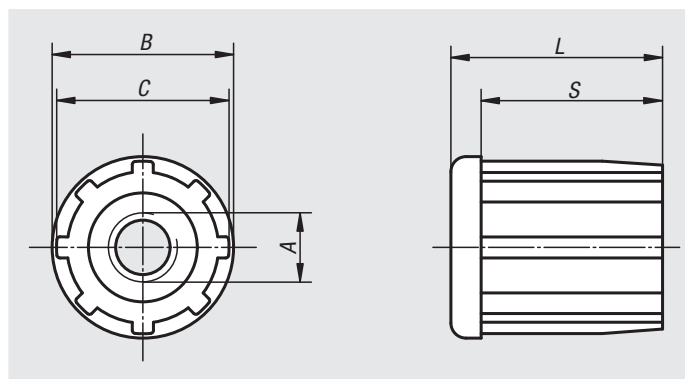
Insert black.
Tapped bush nickel-plated.

Sample order:

nln 27836-103010

Note:

Threaded square inserts for attaching levelling feet, swivel feet and castors to round tubes.



Order No.	A	B	C	L	S	Suitable for tubes	Load rating max. kN
27836-103010	M10	30	28,4	33	27	Ø 30 x 1	5
27836-123010	M12	30	28,4	33	27	Ø 30 x 1	5
27836-143010	M14	30	28,4	33	27	Ø 30 x 1	5
27836-163010	M16	30	28,4	33	27	Ø 30 x 1	5
27836-103815	M10	38	35,5	43	35	Ø 38 x 1,5	5
27836-123815	M12	38	35,5	43	35	Ø 38 x 1,5	5
27836-163815	M16	38	35,5	43	35	Ø 38 x 1,5	5
27836-104215	M10	42	39,9	43	35	Ø 42,4 x 1,5	6
27836-124215	M12	42	39,9	43	35	Ø 42,4 x 1,5	6
27836-144215	M14	42	39,9	43	35	Ø 42,4 x 1,5	6
27836-164215	M16	42	39,9	43	35	Ø 42,4 x 1,5	6
27836-204215	M20	42	39,9	43	35	Ø 42,4 x 1,5	6
27836-124815	M12	48	45,8	55	44	Ø 48,3 x 1,5	6
27836-144815	M14	48	45,8	55	44	Ø 48,3 x 1,5	6
27836-164815	M16	48	45,8	55	44	Ø 48,3 x 1,5	6
27836-204815	M20	48	45,8	55	44	Ø 48,3 x 1,5	6
27836-125015	M12	50	48,4	55	44	Ø 50,9 x 1,5	6
27836-145015	M14	50	48,4	55	44	Ø 50,9 x 1,5	6
27836-165015	M16	50	48,4	55	44	Ø 50,9 x 1,5	6
27836-205015	M20	50	48,4	55	44	Ø 50,9 x 1,5	6

Levelling feet

for aluminium profiles



Material:

Body fibreglass reinforced thermoplastic.
Spindle and washer steel.

Version:

Body black.
Spindle and washer electro zinc-plated.

Sample order:

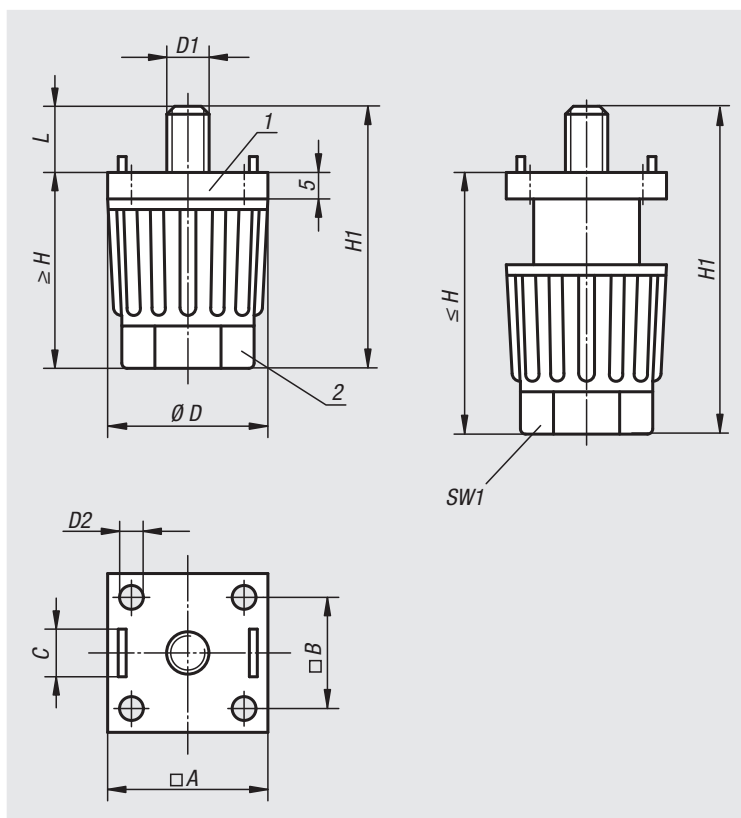
nln 27840-300806

Note:

These levelling feet are suitable for tables and lighter installations.
The foot height is adjusted by turning the base nut by hand or spanner. The pins on the top flange centre the foot and prevent it turning. These levelling feet can be attached to aluminium profiles using T-slot nuts, no need for drilling.

Drawing reference:

- 1) support flange
- 2) nut



Side mounted in profile keyway

no drilling required when using a T-slot nut



Profile end mounted



Order No.	A for aluminium profile	B	C for slot	D	D1	D2 for countersunk screw	H	H1	L	SW1	Load rating max. kN (static load only)
27840-300806	30	20,5	8	30	M6	M4	35-50	44-59	9	22	1,5
27840-300808	30	20,5	8	30	M8	M4	35-50	44-59	9	22	1,5
27840-301006	30	20,5	10	30	M6	M4	35-50	44-59	9	22	1,5
27840-400808	40	28	8	40	M8	M6	45-65	54-74	9	30	1,5
27840-401006	40	28	10	40	M6	M6	45-65	54-74	9	30	1,5
27840-401008	40	28	10	40	M8	M6	45-65	54-74	9	30	1,5

Levelling feet



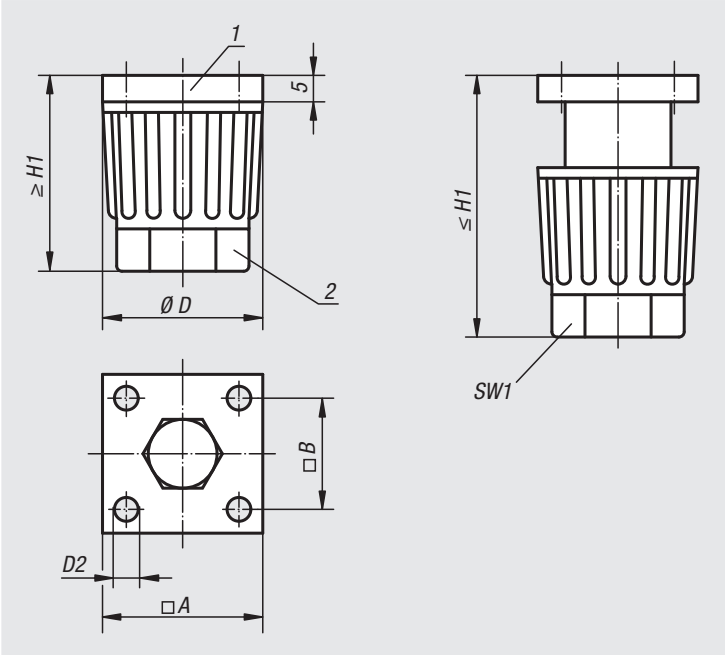
Material:
Body fibreglass reinforced thermoplastic.
Hexagon head screw steel.

Version:
Body black.
Hexagon head screw electro zinc-plated.

Sample order:
nlm 27841-3004

Note:
The flat top flange and sunken screw head make these levelling feet ideal for mounting on smooth surfaces.
The foot height is adjusted by turning the base nut by hand or spanner.

Drawing reference:
1) support flange
2) nut



Order No.	A	B	D	D2 for countersunk screw	H1	SW1	Load rating max. kN (static load only)
27841-3004	30	20,5	30	M4	35-50	22	1,5
27841-4006	40	28	40	M6	45-65	30	1,5

Notes

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

Technical information

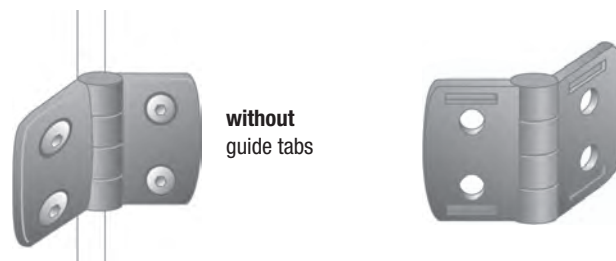
Hinges

Hinges

We have listed a wide range of hinges on the following pages. Many more combinations are possible where hinges with guide tabs are required i.e. when combining aluminium profiles with different slot widths.

Guide tabs

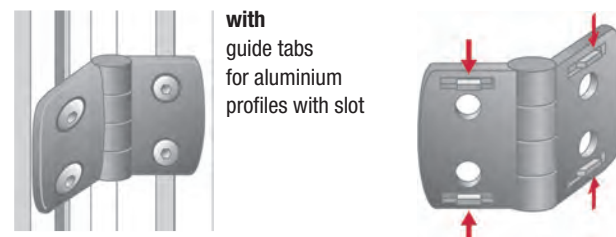
Many hinges can be supplied on request with guide tabs for the slots of aluminium profiles. They secure the hinge against twisting and make it stronger. The hinges are designed in such a way that the guide tabs can simply be broken out with a screwdriver.



without
guide tabs

Left and right hinge

Each lift-off hinge has a left and right version. Before ordering it should be known on which side the door or hatch is to be mounted.



with
guide tabs
for aluminium
profiles with slot

Left hinge.

The left hinge half is fixed.
The hatch or door opens from right to left.



Right hinge.

The right hinge half is fixed.
The hatch or door opens from left to right.



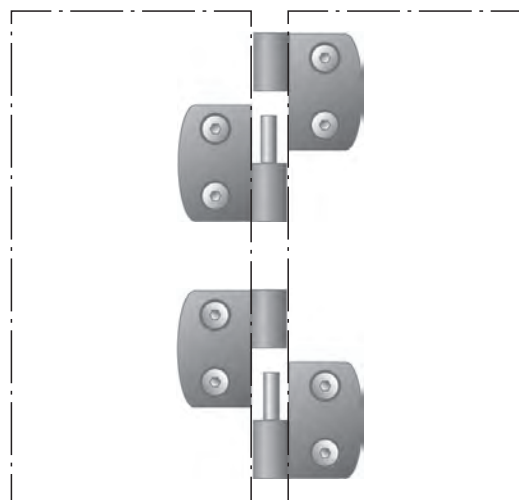
Fixed hinge.

The hinge is non-liftoff.
It is suitable for opening left or right.



Tip

If you want to fit a door or hatch so that it cannot be lifted off, you can still use a left and right lift-off hinge. The two hinges are fitted in the end position and secure each other mutually.



Hinges

plastic, lift-off, left


Material:

Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.

Version:

Hinge black. Pin bright.

Sample order:

nIm 27850-1301825

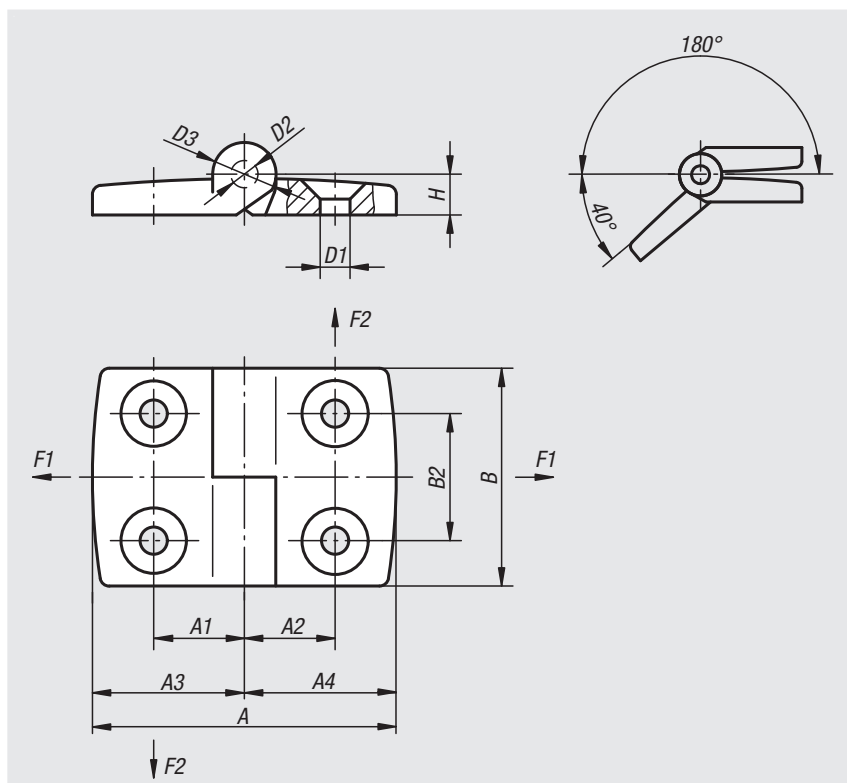
Note:

All hinges can be supplied on request with guide tabs for the slots of aluminium profiles (slots 6, 8 and 10). They facilitate assembly, secure the hinge against rotation and make it harder wearing.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	A3	A4	B	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
27850-1251515	52	15	15	26	26	48	28	6,6	6	14	9	0,625	0,425
27850-1251518	55,5	15	17,5	26	29,5	48	28	6,6	6	14	9	0,7	0,5
27850-1251520	61,5	15	20	26	35,5	48	28	6,6	6	14	9	0,7	0,4
27850-1251523	64,5	15	22,5	26	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-1251525	69,5	15	25	26	43,5	48	28	6,6	6	14	9	0,8	0,325
27850-1251528	74,5	15	27,5	26	48,5	48	28	6,6	6	14	9	0,8	0,32
27850-1251533	83,5	15	32,5	26	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-1301815	55,5	17,5	15	29,5	26	48	28	6,6	6	14	9	0,75	0,45
27850-1301818	59	17,5	17,5	29,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-1301820	65	17,5	20	29,5	35,5	48	28	6,6	6	14	9	0,75	0,4
27850-1301823	68	17,5	22,5	29,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-1301825	73	17,5	25	29,5	43,5	48	28	6,6	6	14	9	0,8	0,35
27850-1301828	78	17,5	27,5	29,5	48,5	48	28	6,6	6	14	9	0,8	0,35
27850-1301833	87	17,5	32,5	29,5	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-1352015	61,5	20	15	35,5	26	48	28	6,6	6	14	9	0,75	0,4
27850-1352018	65	20	17,5	35,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-1352020	71	20	20	35,5	35,5	48	28	6,6	6	14	9	0,75	0,4
27850-1352023	74	20	22,5	35,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-1352025	79	20	25	35,5	43,5	48	28	6,6	6	14	9	0,8	0,35
27850-1352028	84	20	27,5	35,5	48,5	48	28	6,6	6	14	9	0,9	0,35
27850-1352033	93	20	32,5	35,5	57,5	48	28	6,6	6	14	9	0,8	0,24

Order No.	A	A1	A2	A3	A4	B	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
27850-1402315	64,5	22,5	15	38,5	26	48	28	6,6	6	14	9	0,65	0,425
27850-1402318	68	22,5	17,5	38,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-1402320	74	22,5	20	38,5	35,5	48	28	6,6	6	14	9	0,75	0,4
27850-1402323	77	22,5	22,5	38,5	38,5	48	28	6,6	6	14	9	0,8	0,4
27850-1402328	87	22,5	27,5	38,5	48,5	48	28	6,6	6	14	9	0,8	0,35
27850-1402333	96	22,5	32,5	38,5	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-1452515	69,5	25	15	43,5	26	48	28	6,6	6	14	9	0,65	0,425
27850-1452518	73	25	17,5	43,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-1452520	79	25	20	43,5	35,5	48	28	6,6	6	14	9	0,7	0,4
27850-1452523	82	25	22,5	43,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-1452525	87	25	25	43,5	43,5	48	28	6,6	6	14	9	0,8	0,325
27850-1452528	92	25	27,5	43,5	48,5	48	28	6,6	6	14	9	0,8	0,32
27850-1452533	101	25	32,5	43,5	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-1502815	74,5	27,5	15	48,5	26	48	28	6,6	6	14	9	0,65	0,425
27850-1502818	78	27,5	17,5	48,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-1502820	84	27,5	20	48,5	35,5	48	28	6,6	6	14	9	0,7	0,4
27850-1502823	87	27,5	22,5	48,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-1502825	92	27,5	25	48,5	43,5	48	28	6,6	6	14	9	0,8	0,325
27850-1502828	97	27,5	27,5	48,5	48,5	48	28	6,6	6	14	9	0,8	0,32
27850-1502833	106	27,5	32,5	48,5	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-1603315	83,5	32,5	15	57,5	26	48	28	6,6	6	14	9	0,65	0,425
27850-1603318	87	32,5	17,5	57,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-1603320	93	32,5	20	57,5	35,5	48	28	6,6	6	14	9	0,7	0,4
27850-1603323	96	32,5	22,5	57,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-1603325	101	32,5	25	57,5	43,5	48	28	6,6	6	14	9	0,8	0,325
27850-1603328	106	32,5	27,5	57,5	48,5	48	28	6,6	6	14	9	0,9	0,32
27850-1603333	115	32,5	32,5	57,5	57,5	48	28	6,6	6	14	9	0,9	0,24

Hinges

plastic, lift-off, right



Material:

Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.

Version:

Hinge black. Pin bright.

Sample order:

nIm 27850-2251523

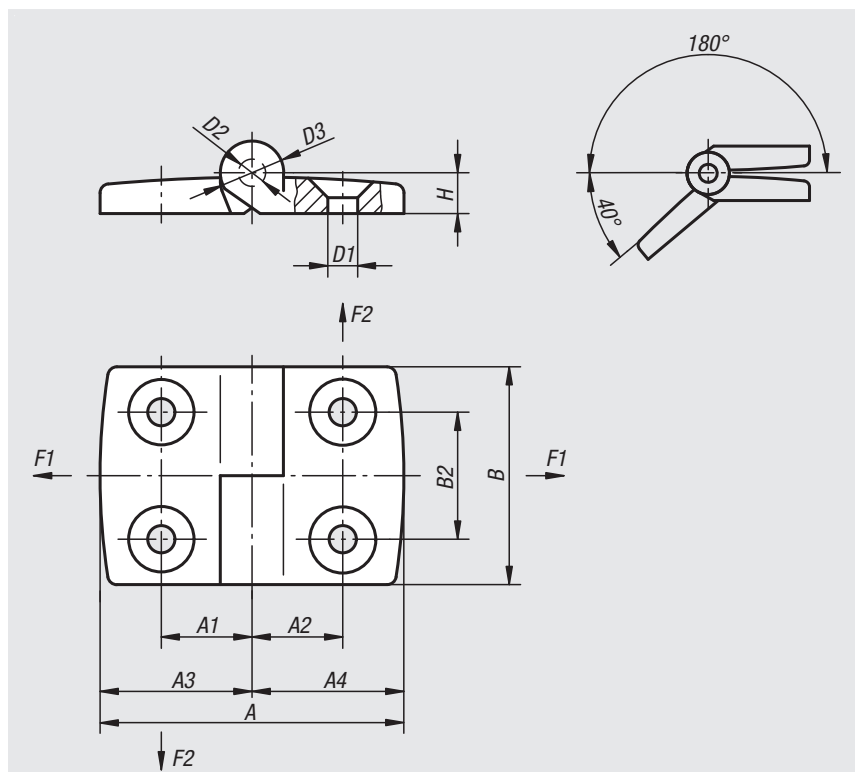
Note:

All hinges can be supplied on request with guide tabs for the slots of aluminium profiles (slots 6, 8 and 10). They facilitate assembly, secure the hinge against rotation and make it harder wearing.

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Order No.	A	A1	A2	A3	A4	B	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
27850-2251515	52	15	15	26	26	48	28	6,6	6	14	9	0,625	0,425
27850-2251518	55,5	15	17,5	26	29,5	48	28	6,6	6	14	9	0,7	0,5
27850-2251520	61,5	15	20	26	35,5	48	28	6,6	6	14	9	0,7	0,4
27850-2251523	64,5	15	22,5	26	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-2251525	69,5	15	25	26	43,5	48	28	6,6	6	14	9	0,8	0,325
27850-2251528	74,5	15	27,5	26	48,5	48	28	6,6	6	14	9	0,8	0,32
27850-2251533	83,5	15	32,5	26	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-2301815	55,5	17,5	15	29,5	26	48	28	6,6	6	14	9	0,75	0,45
27850-2301818	59	17,5	17,5	29,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-2301820	65	17,5	20	29,5	35,5	48	28	6,6	6	14	9	0,7	0,4
27850-2301823	68	17,5	22,5	29,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-2301825	73	17,5	25	29,5	43,5	48	28	6,6	6	14	9	0,8	0,35
27850-2301828	78	17,5	27,5	29,5	48,5	48	28	6,6	6	14	9	0,8	0,35
27850-2301833	87	17,5	32,5	29,5	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-2352015	61,5	20	15	35,5	26	48	28	6,6	6	14	9	0,7	0,4
27850-2352018	65	20	17,5	35,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-2352020	71	20	20	35,5	35,5	48	28	6,6	6	14	9	0,75	0,4
27850-2352023	74	20	22,5	35,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-2352025	79	20	25	35,5	43,5	48	28	6,6	6	14	9	0,8	0,35
27850-2352028	84	20	27,5	35,5	48,5	48	28	6,6	6	14	9	0,8	0,35
27850-2352033	93	20	32,5	35,5	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-2402315	64,5	22,5	15	38,5	26	48	28	6,6	6	14	9	0,65	0,425
27850-2402318	68	22,5	17,5	38,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-2402320	74	22,5	20	38,5	35,5	48	28	6,6	6	14	9	0,75	0,4
27850-2402323	77	22,5	22,5	38,5	38,5	48	28	6,6	6	14	9	0,8	0,35

Order No.	A	A1	A2	A3	A4	B	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
27850-2402325	82	22,5	25	38,5	43,5	48	28	6,6	6	14	9	0,8	0,35
27850-2402328	87	22,5	27,5	38,5	48,5	48	28	6,6	6	14	9	0,8	0,35
27850-2402333	96	22,5	32,5	38,5	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-2452515	69,5	25	15	43,5	26	48	28	6,6	6	14	9	0,65	0,425
27850-2452518	73	25	17,5	43,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-2452520	79	25	20	43,5	35,5	48	28	6,6	6	14	9	0,7	0,4
27850-2452523	82	25	22,5	43,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-2452525	87	25	25	43,5	43,5	48	28	6,6	6	14	9	0,8	0,325
27850-2452528	92	25	27,5	43,5	48,5	48	28	6,6	6	14	9	0,8	0,32
27850-2452533	101	25	32,5	43,5	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-2502815	74,5	27,5	15	48,5	26	48	28	6,6	6	14	9	0,65	0,425
27850-2502818	78	27,5	17,5	48,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-2502820	84	27,5	20	48,5	35,5	48	28	6,6	6	14	9	0,7	0,4
27850-2502823	87	27,5	22,5	48,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-2502825	92	27,5	25	48,5	43,5	48	28	6,6	6	14	9	0,8	0,325
27850-2502828	97	27,5	27,5	48,5	48,5	48	28	6,6	6	14	9	0,8	0,32
27850-2502833	106	27,5	32,5	48,5	57,5	48	28	6,6	6	14	9	0,8	0,24
27850-2603318	87	32,5	17,5	57,5	29,5	48	28	6,6	6	14	9	0,75	0,5
27850-2603320	93	32,5	20	57,5	35,5	48	28	6,6	6	14	9	0,7	0,4
27850-2603323	96	32,5	22,5	57,5	38,5	48	28	6,6	6	14	9	0,8	0,35
27850-2603325	101	32,5	25	57,5	43,5	48	28	6,6	6	14	9	0,8	0,325
27850-2603328	106	32,5	27,5	57,5	48,5	48	28	6,6	6	14	9	0,9	0,32
27850-2603333	115	32,5	32,5	57,5	57,5	48	28	6,6	6	14	9	0,9	0,24

Hinges

plastic



Material:

Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.

Version:

Hinge black. Pin bright.

Sample order:

nlm 27852-251528

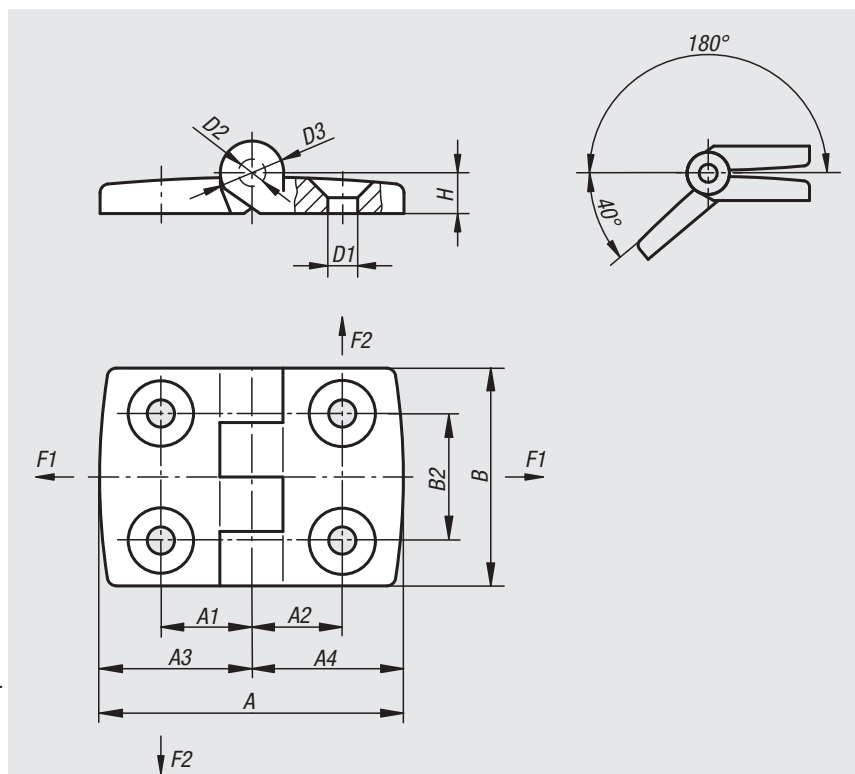
Note:

Hinges with different leaf lengths can be used left and right.
All hinges can be supplied on request with guide tabs for the slots of aluminium profiles (slots 6, 8 and 10). They facilitate assembly, secure the hinge against rotation and make it harder wearing.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Hinges

plastic

Order No.	A	A1	A2	A3	A4	B	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
27852-201212	39	11,5	11,5	19,5	19,5	30	14	4,2	3	8	5,5	0,4	0,2
27852-251515	52	15	15	26	26	48	28	6,6	6	14	9	0,625	0,425
27852-251518	55,5	15	17,5	26	29,5	48	28	6,6	6	14	9	0,7	0,5
27852-251520	61,5	15	20	26	35,5	48	28	6,6	6	14	9	0,7	0,4
27852-251523	64,5	15	22,5	26	38,5	48	28	6,6	6	14	9	0,8	0,35
27852-251525	69,5	15	25	26	43,5	48	28	6,6	6	14	9	0,8	0,325
27852-251528	74,5	15	27,5	26	48,5	48	28	6,6	6	14	9	0,8	0,32
27852-251533	83,5	15	32,5	26	57,5	48	28	6,6	6	14	9	0,8	0,24
27852-301818	59	17,5	17,5	29,5	29,5	48	28	6,6	6	14	9	0,7	0,4
27852-301820	65	17,5	20	29,5	35,5	48	28	6,6	6	14	9	0,7	0,4
27852-301823	68	17,5	22,5	29,5	38,5	48	28	6,6	6	14	9	0,75	0,45
27852-301825	73	17,5	25	29,5	43,5	48	28	6,6	6	14	9	0,75	0,45
27852-301828	78	17,5	27,5	29,5	48,5	48	28	6,6	6	14	9	0,9	0,425
27852-301833	87	17,5	32,5	29,5	57,5	48	28	6,6	6	14	9	0,85	0,2
27852-352020	71	20	20	35,5	35,5	48	28	6,6	6	14	9	0,7	0,4
27852-352023	74	20	22,5	35,5	38,5	48	28	6,6	6	14	9	0,75	0,45
27852-352025	79	20	25	35,5	43,5	48	28	6,6	6	14	9	0,75	0,45
27852-352028	84	20	27,5	35,5	48,5	48	28	6,6	6	14	9	0,8	0,425
27852-352033	93	20	32,5	35,5	57,5	48	28	6,6	6	14	9	0,8	0,175
27852-402323	77	22,5	22,5	38,5	38,5	48	28	6,6	6	14	9	0,75	0,45
27852-402325	82	22,5	25	38,5	43,5	48	28	6,6	6	14	9	0,75	0,45
27852-402328	87	22,5	27,5	38,5	48,5	48	28	6,6	6	14	9	0,8	0,425
27852-402333	96	22,5	32,5	38,5	57,5	48	28	6,6	6	14	9	0,85	0,175
27852-452525	87	25	25	43,5	43,5	48	28	6,6	6	14	9	0,75	0,45
27852-452528	92	25	27,5	43,5	48,5	48	28	6,6	6	14	9	0,8	0,425
27852-452533	101	25	32,5	43,5	57,5	48	28	6,6	6	14	9	0,85	0,2
27852-502828	97	27,5	27,5	48,5	48,5	48	28	6,6	6	14	9	0,8	0,425
27852-502833	106	27,5	32,5	48,5	57,5	48	28	6,6	6	14	9	0,85	0,2
27852-603333	115	32,5	32,5	57,5	57,5	48	28	6,6	6	14	9	0,85	0,175

Hinges

plastic, with locking lever



Material:

Hinge and lever fibreglass reinforced thermoplastic.
Hinge pin steel.
Mechanism steel.

Version:

Hinge black.
Pin electro zinc-plated.
Locking lever black.
Mechanism black electro zinc-plated.

Sample order:

nlm 27853-251515

Note:

The indexible lever enables the hinge to be locked in any position.

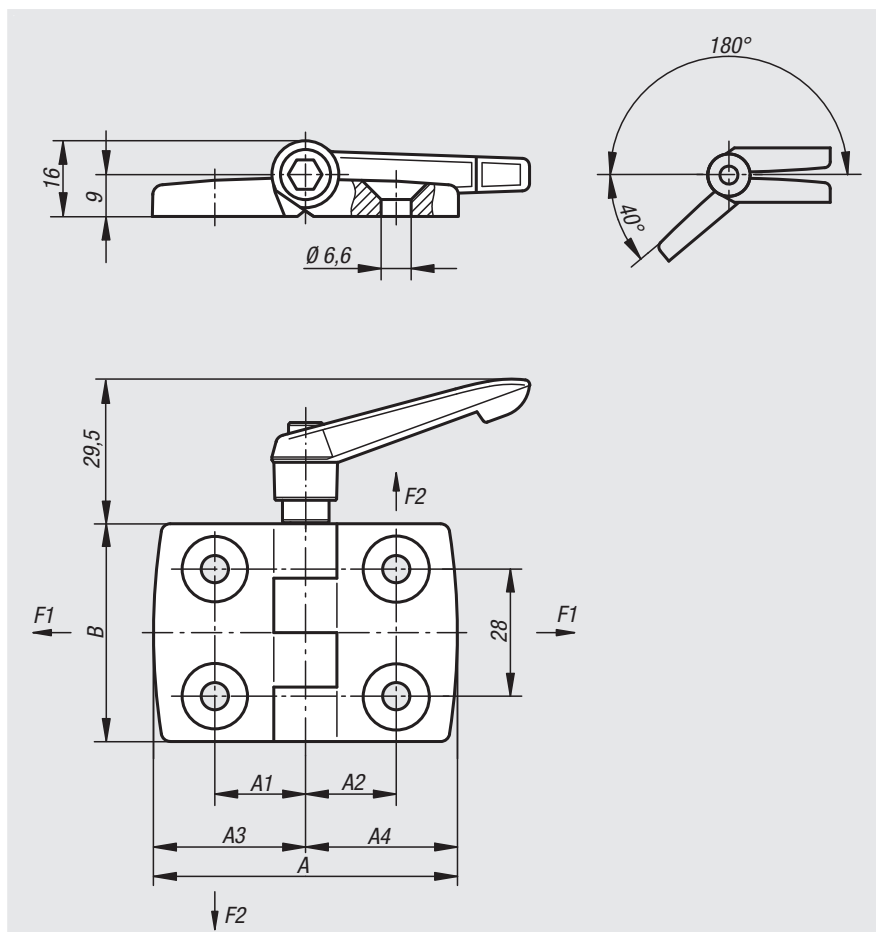
The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.

On request:

Hinges with guide tabs (slot 6, 8 and 10) for aluminium profiles.
Unequal leaf combinations.



Order No.	A	A1	A2	A3	A4	B	F1 max. kN	F2 max. kN
27853-251515	52	15	15	26	26	48	0,5	0,38
27853-301818	59	17,5	17,5	29,5	29,5	48	0,7	0,4
27853-352020	72	20	20	36	36	48	0,7	0,4
27853-402323	77	22,5	22,5	38,5	38,5	48	0,75	0,45
27853-452525	87	25	25	43,5	43,5	48	0,75	0,45
27853-502828	97	27,5	27,5	48,5	48,5	48	0,8	0,425
27853-603333	115	32,5	32,5	57,5	57,5	48	0,85	0,175

Hinges

plastic, with elongated holes



Material:
Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.

Version:
Hinge black. Pin bright.

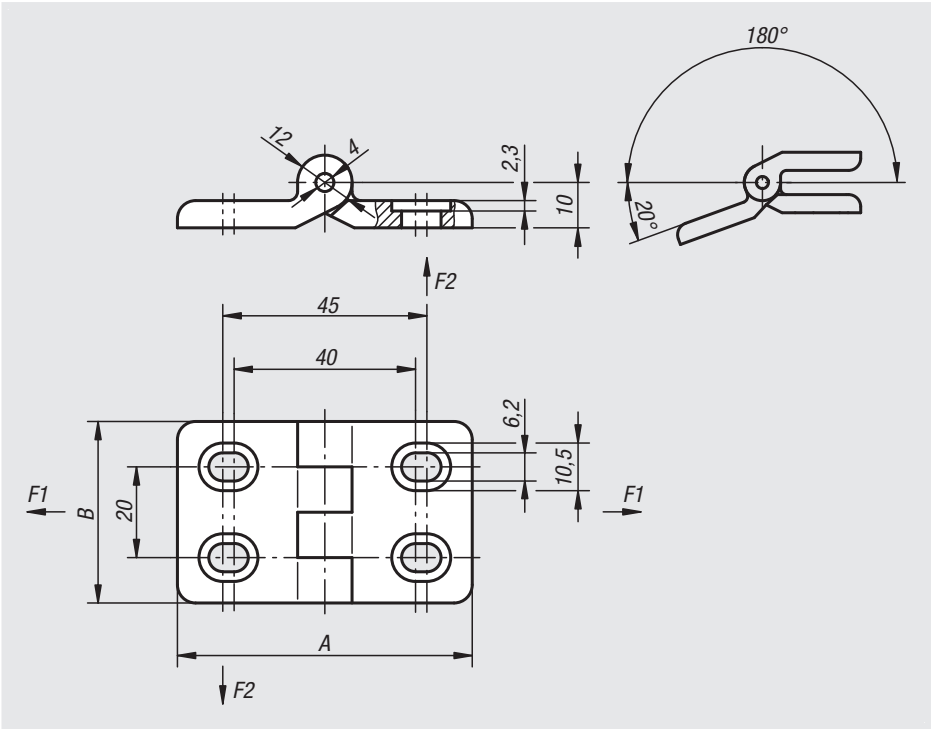
Sample order:
nlm 27854-402020

Note:
Elongated holes enable easy horizontal adjustment.

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The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	B	F1 max. kN	F2 max. kN
27854-402020	65	40	0,5	0,3

Hinges

plastic with fastening holes


Material:

Fibreglass reinforced thermoplastic.
Hinge pin steel.

Version:

Hinge black.
Hinge pin electro zinc-plated.

Sample order:

nIm 27855-004161010

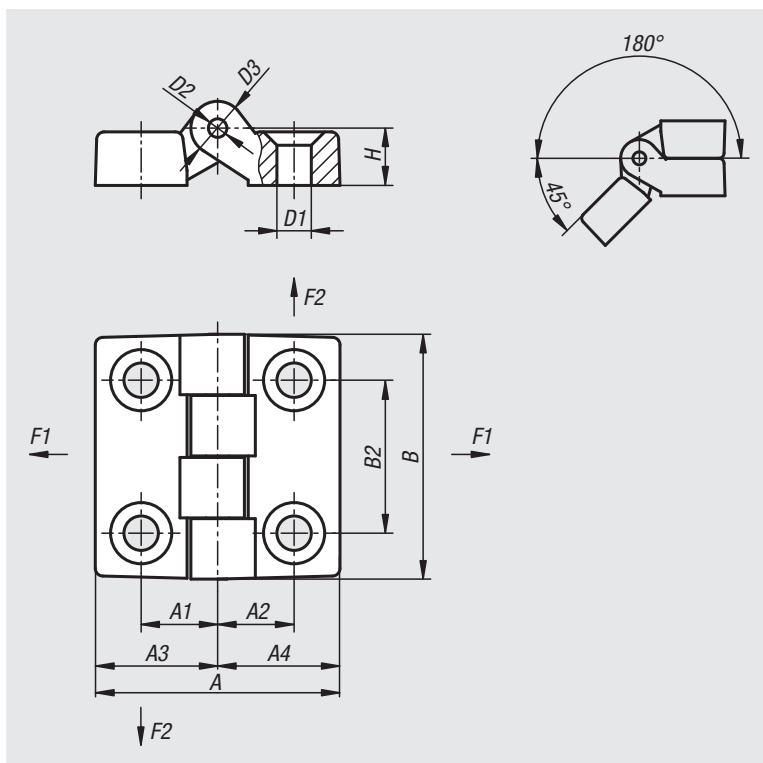
Note:

Hinges with fastening holes for DIN 7991/UNI 5933 countersunk screws.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	A3	A4	B	B2	D1	D2	D3	H	F1 N	F2 N
27855-004161010	32	10	10	16	16	32	20	4,5	3	7	7	1440	490
27855-006241515	48	15	15	24	24	48	30	6,5	5	10	10,5	1960	1470
27855-006322020	64	20	20	32	32	64	40	6,5	5	12	13	2990	1520
27855-008483232	96	31,5	31,5	48	48	96	60	8,5	8	16	16	4300	1810
27855-010483232	96	31,5	31,5	48	48	96	60	10,5	8	16	16	4300	1810

Hinges

plastic, lift-off, with guide tabs



Material:
Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.
Washer thermoplastic.

Version:
Hinge and washer black. Pin bright.

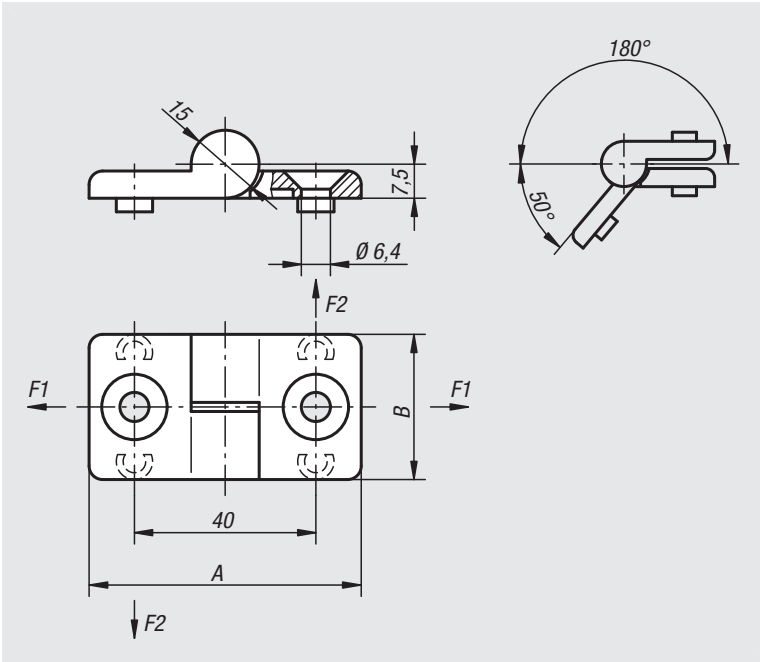
Sample order:
nlm 27856-1322020

Note:
The hinges can be located in an 8 mm slot using the guide tabs.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	Version	A	B	F1 max. kN	F2 max. kN
27856-1322020	left	60	32	0,2	0,1
27856-2322020	right	60	32	0,2	0,1

Hinges

plastic, detent



Material:

Hinge and caps fibreglass reinforced PA thermoplastic.

Hinge pin stainless steel.

Version:

Hinge and caps black.

Pin bright.

Sample order:

nlm 27857-56181800

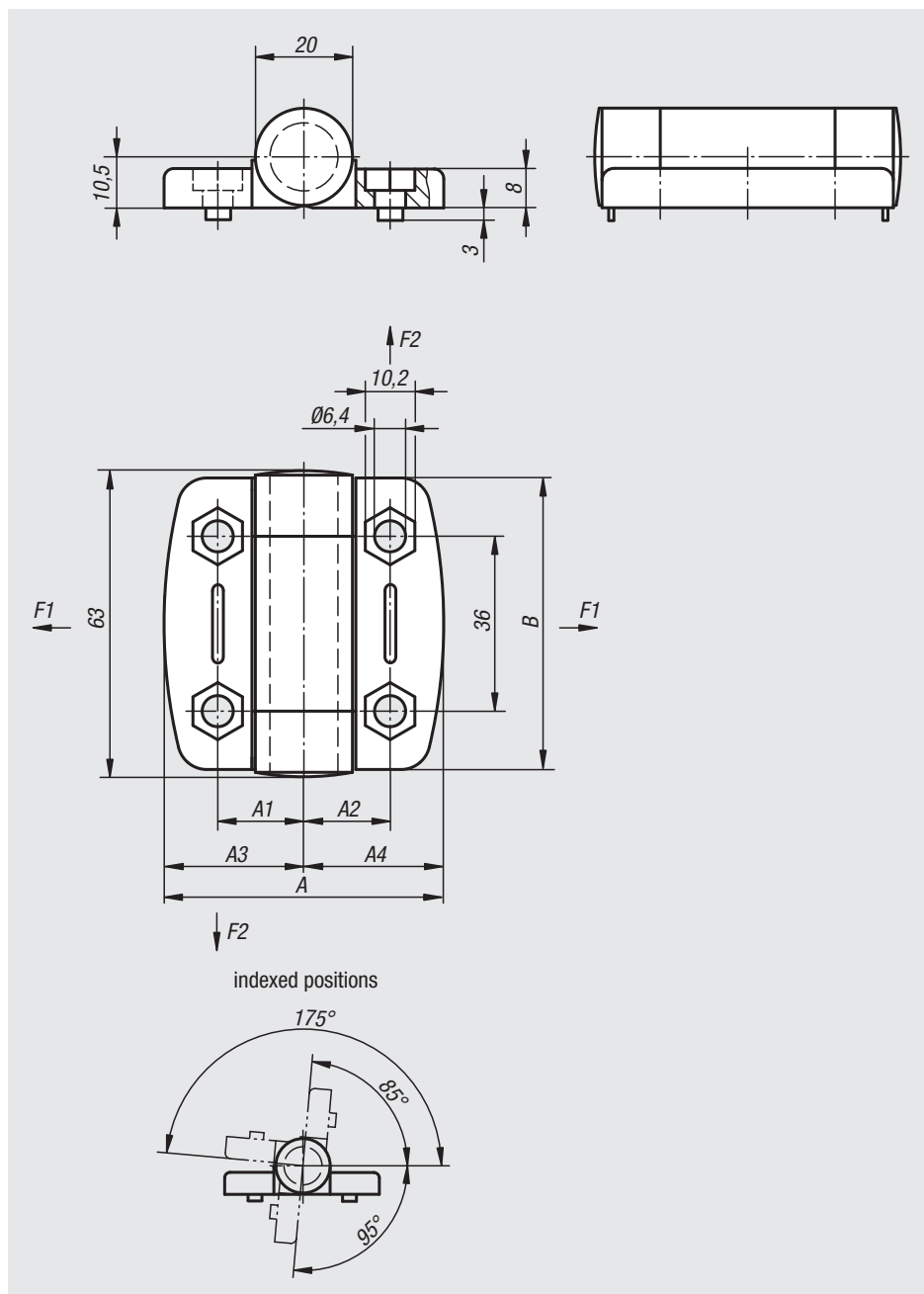
Note:

These hinges have a detent mechanism. This mechanism holds a door or lid open at three different angles or tightly closed. The hinges are available with or without guide tabs for aluminium profile slots.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	A3	A4	B	Guide tabs for slot	F1 max. kN	F2 max. kN	Max. torque Nm
27857-56181800	54	17,75	17,75	27	27	56	-	0,4	0,35	2
27857-56181806	54	17,75	17,75	27	27	56	6	0,4	0,35	2
27857-56181808	54	17,75	17,75	27	27	56	8	0,4	0,35	2
27857-56232300	73,5	22,75	22,75	36,75	36,75	56	-	0,6	0,425	2
27857-56232308	73,5	22,75	22,75	36,75	36,75	56	8	0,6	0,425	2
27857-56232310	73,5	22,75	22,75	36,75	36,75	56	10	0,6	0,425	2

Hinges

plastic, with adjustable friction



Material:

Hinge and caps, fibreglass reinforced PA thermoplastic.

Metal parts stainless steel.

Version:

Hinge and caps black.

Metal parts bright.

Sample order:

nlm 27858-56181800

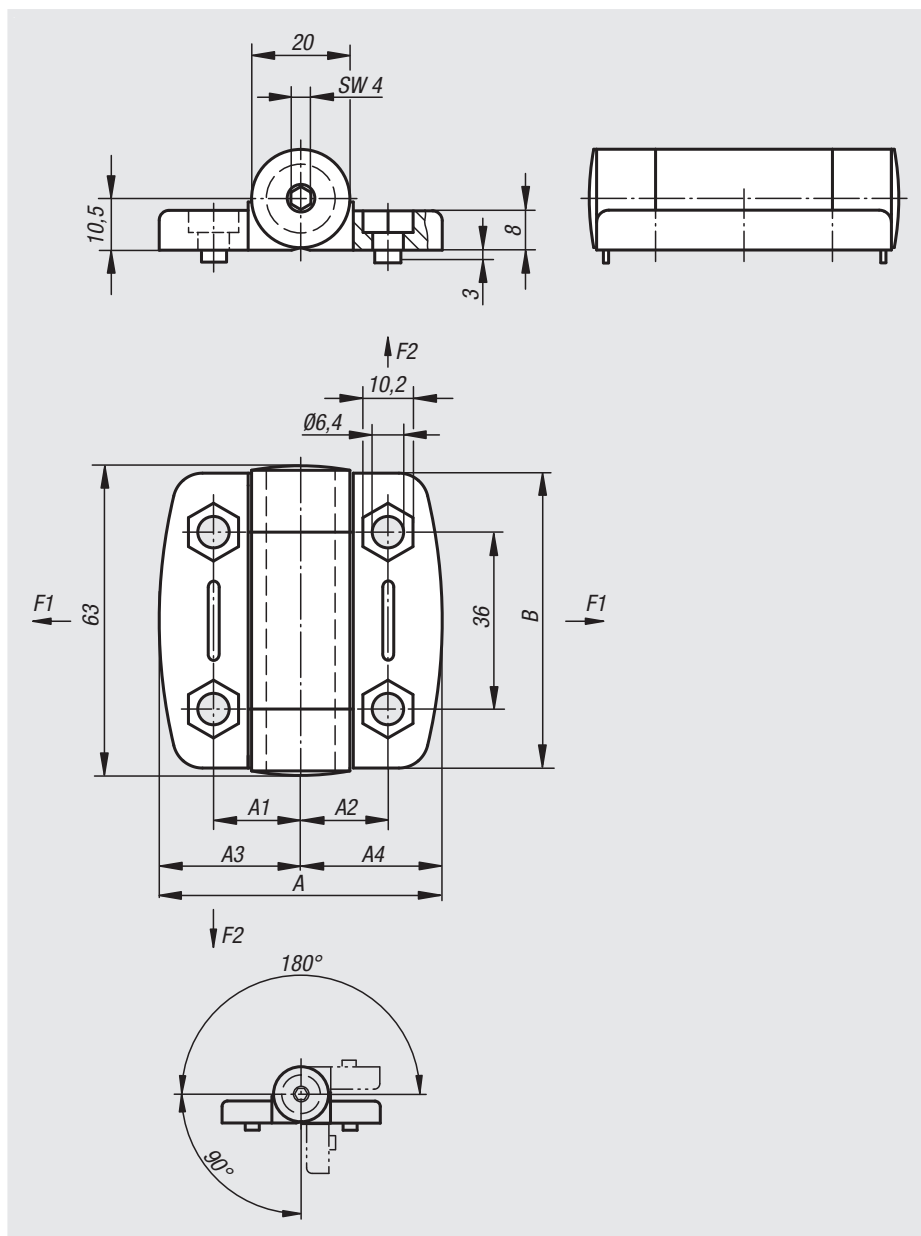
Note:

These friction hinges enable doors or lids to remain open in any position. A set screw allows the amount of friction to be infinitely adjusted between 0-5 Nm. The hinges are available with or without guide tabs for aluminium profile slots.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	A3	A4	B	Guide tabs for slot	F1 max. kN	F2 max. kN
27858-56181800	54	17,75	17,75	27	27	56	-	0,4	0,325
27858-56181806	54	17,75	17,75	27	27	56	6	0,4	0,325
27858-56181808	54	17,75	17,75	27	27	56	8	0,4	0,325
27858-56232300	73,5	22,75	22,75	36,75	36,75	56	-	0,6	0,425
27858-56232308	73,5	22,75	22,75	36,75	36,75	56	8	0,6	0,425
27858-56232310	73,5	22,75	22,75	36,75	36,75	56	10	0,6	0,425

Hinges

aluminium, with adjustable friction


Material:

Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:

Black anodised

Sample order:

nlm 27859-35301

Note:

These friction hinges allow doors to remain open at any desired angle. A set screw allows the amount of friction to be infinitely adjusted between 0–1 Nm. Opening angle 270°.

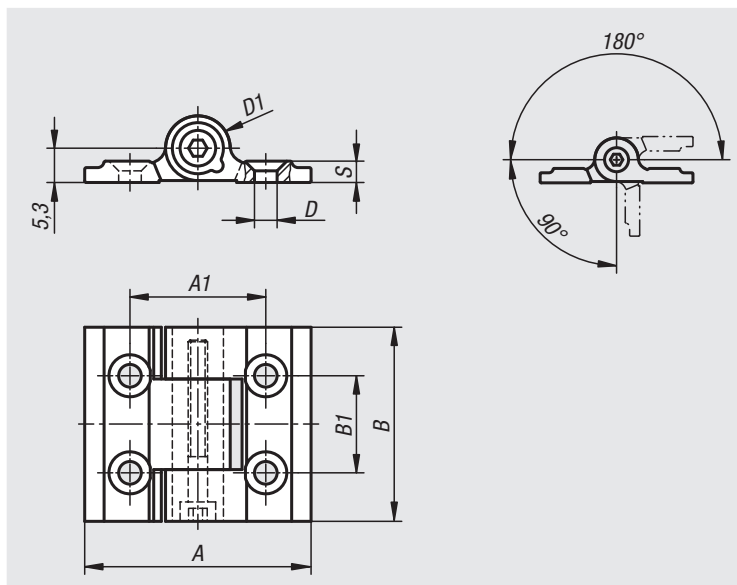
Max. tensile strength: 2240 N

Max. shear strength: 1050 N

Fastened using DIN 7991 countersunk screws.

Temperature range:

From -20°C to +80°C



Order No.	A	A1	B	B1	D	D1	S
27859-35301	35	21	30	15	3,5	10	3,3

Hinges

aluminium, with adjustable friction



Material:

Aluminium 6060 T5.

Sleeve POM.

Set screw stainless steel.

Washers PA.

Fastening screws steel.

Version:

Black anodised.

Fastening screws electro zinc-plated.

Sample order:

nIm 27860-55651

Note:

These friction hinges allow doors to remain open at any desired angle. A set screw allows the amount of friction to be infinitely adjusted between 0–5 Nm.
Opening angle 225°.

Max. tensile strength: 6000 N

Max. shear strength: 5000 N

Temperature range:

From -20°C to +80°C

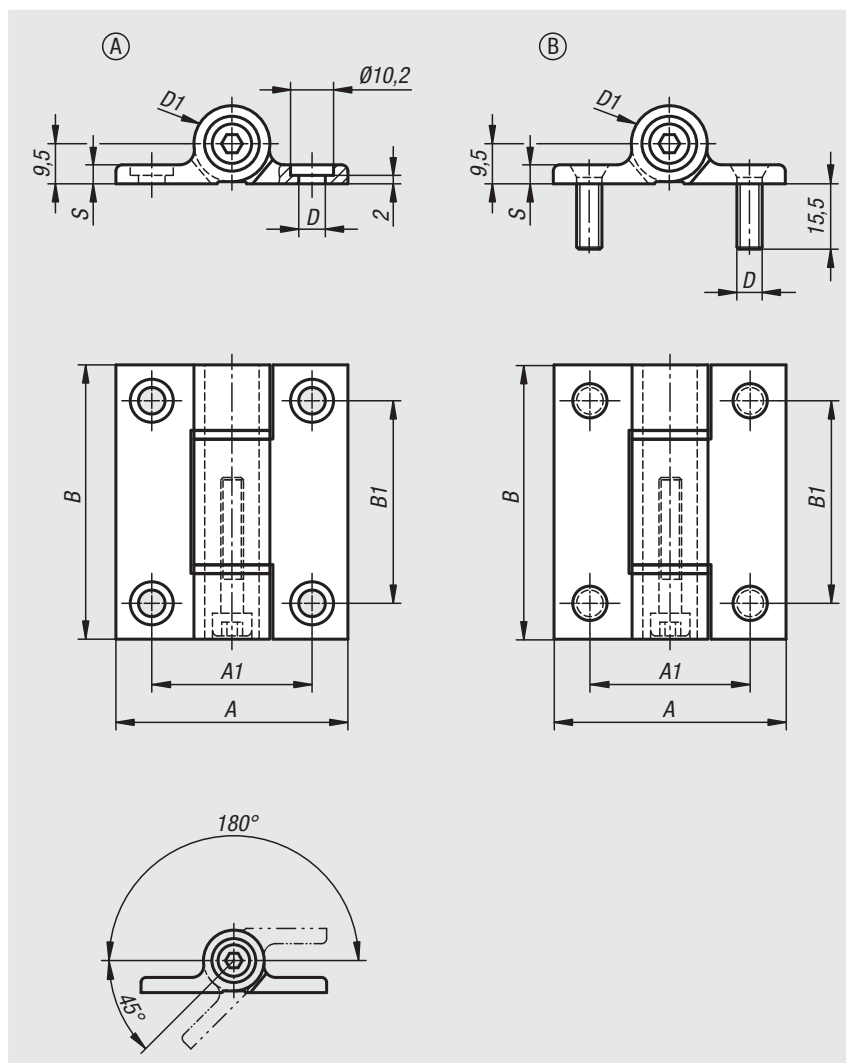
Accessories:

Socket head screws with hexagon socket DIN 912/EN ISO 4762.

Drawing reference:

Form A: fastened using DIN 912/EN ISO 4762 socket head screws.

Form B: fastened using threaded pins.



Order No.	Form	A	A1	B	B1	D	D1	S
27860-55651	A	55	38	65	48	6,3	18	4,5
27860-556511	B	55	38	65	48	M6	18	4,5

Hinges, stainless steel

with preset friction


Material:

Stainless steel 1.4310.

Version:

Bright.

Sample order:

nlm 27860-01-55853

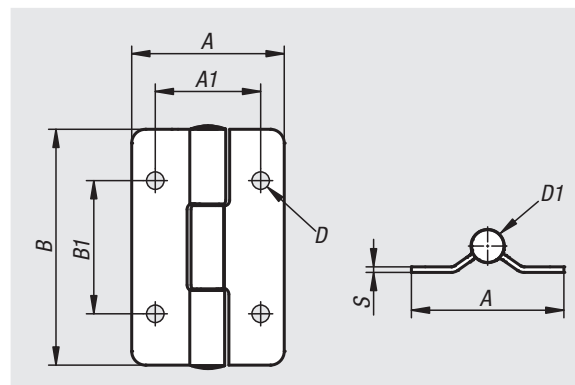
Note:

Due to the constant and stable torque, the hinges permit door positioning in any angular orientation without the need for additional aids.

Opening angle 270°.

Accessories:

Hinges, stainless steel 27877-02



Order No.	A	A1	B	B1	D	D1	S	Max. torque Nm
27860-01-55853	55	38	85	48	6,3	12	2	3
27860-01-55855	55	38	85	48	6,3	16	2	5

Hinges

aluminium, with detent



Material:
Aluminium 6060 T5.
Screws and nuts stainless steel.
Washers PA.

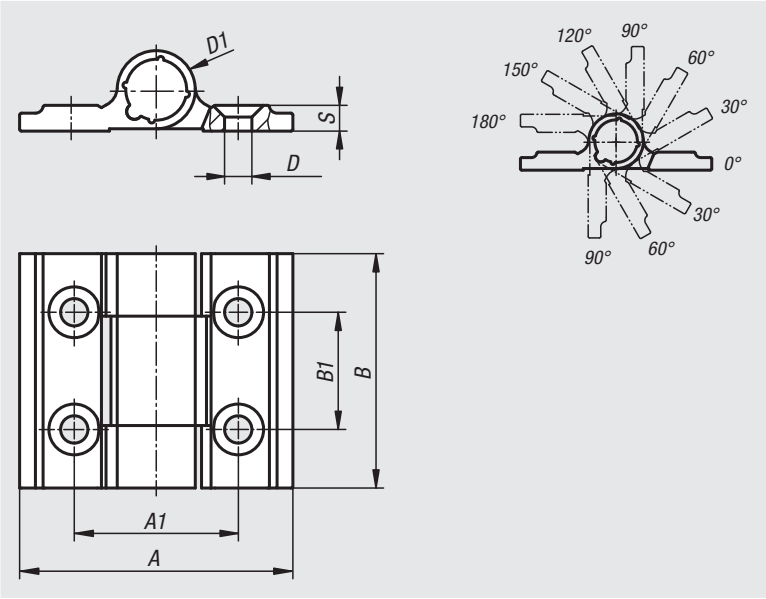
Version:
Black anodised

Sample order:
nlm 27861-35301

Note:
These hinges have a detent mechanism that indexes every 30° from 0° to 270° and holds doors or hatches open or tightly closed.
The detent torque is not adjustable.
Torque tolerance ±20%

Fastened using DIN 7991 countersunk screws.

Temperature range:
From -30°C to +70°C



Order No.	A	A1	B	B1	D	D1	S	Max. torque Nm
27861-35301	35	21	30	15	3,5	10	3,3	0,3

Hinges

aluminium, with detent


Material:

Aluminium 6060 T5.

Screws and nuts stainless steel.

Washers PA.

Version:

Black anodised

Sample order:

nln 27862-556711

Note:

These hinges have a detent mechanism that indexes every 30° from 0° to 270° and holds doors or hatches open or tightly closed.

The detent torque is not adjustable.

The hinges have a more than 30000 cycle service life.

Torque tolerance ±20%

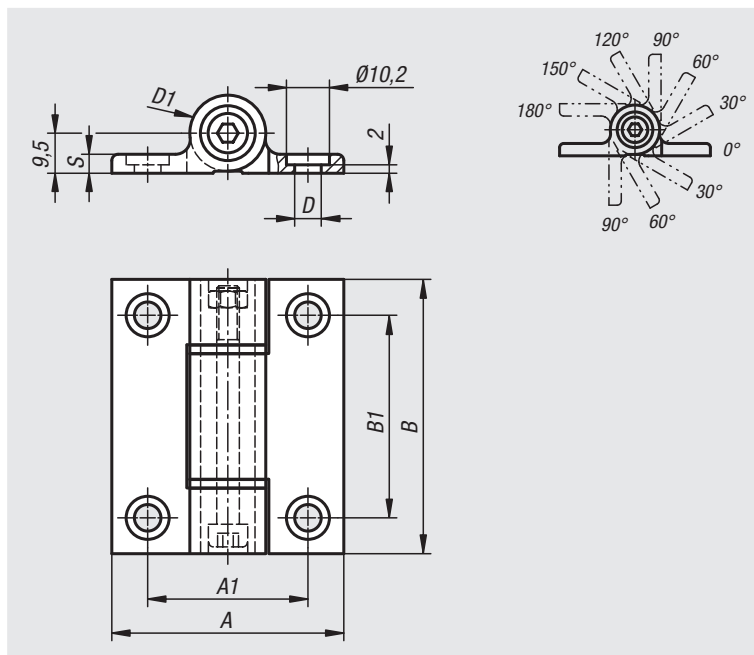
Fastened using DIN 912/EN ISO 4762 socket head screws.

Temperature range:

From -30°C to +70°C

Accessories:

Socket head screws with hexagon socket DIN 912/EN ISO 4762.



Order No.	A	A1	B	B1	D	D1	S	Max. torque Nm
27862-556711	55	38	67	48	6,3	18	4,5	1,8
27862-556712	55	38	67	48	6,3	18	4,5	2,5
27862-556713	55	38	67	48	6,3	18	4,5	3,2
27862-556715	55	38	67	48	6,3	18	4,5	5

Hinges

die-cast zinc, with elongated holes



Material:
Die-cast zinc.
Hinge pin stainless steel.
Washer thermoplastic.

Version:
Hinge black powder-coated.
Pin bright.
Washer black.

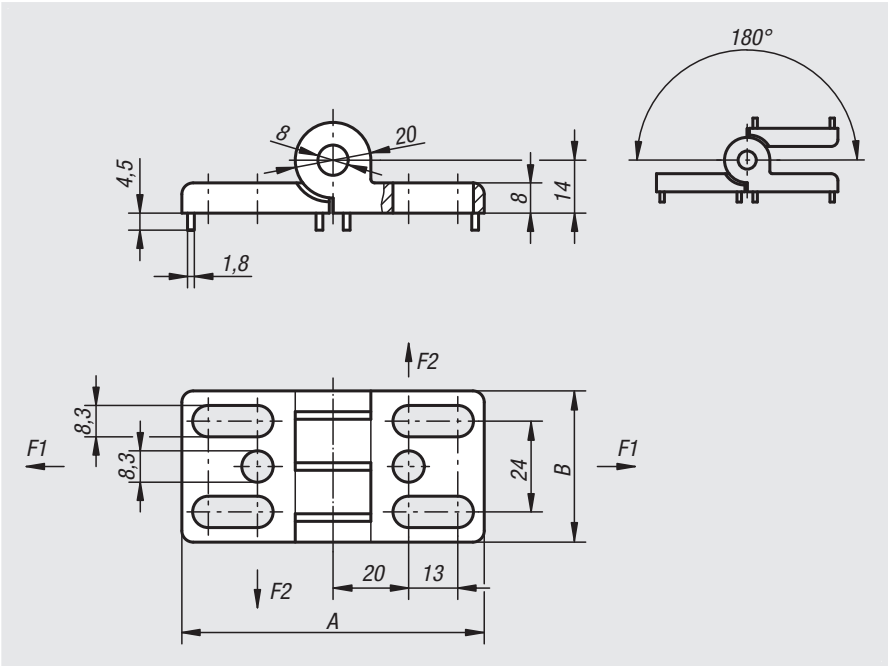
Sample order:
nlm 27865-402020

Note:
Elongated holes enable easy horizontal adjustment.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	B	Guide tabs for slot	F1 max. kN	F2 max. kN
27865-402020	80	40	-	1,2	0,5
27865-40202008	80	40	8	1,2	0,5
27865-40202010	80	40	10	1,2	0,5

Hinges

die-cast zinc, with locking lever



Material:

Hinge die-cast zinc.

Hinge pin steel.

Lever fibreglass reinforced thermoplastic.

Mechanism steel.

Version:

Hinge black powder-coated.

Pin electro zinc-plated.

Lever black.

Mechanism black electro zinc-plated.

Sample order:

nIm 27868-40232300

Note:

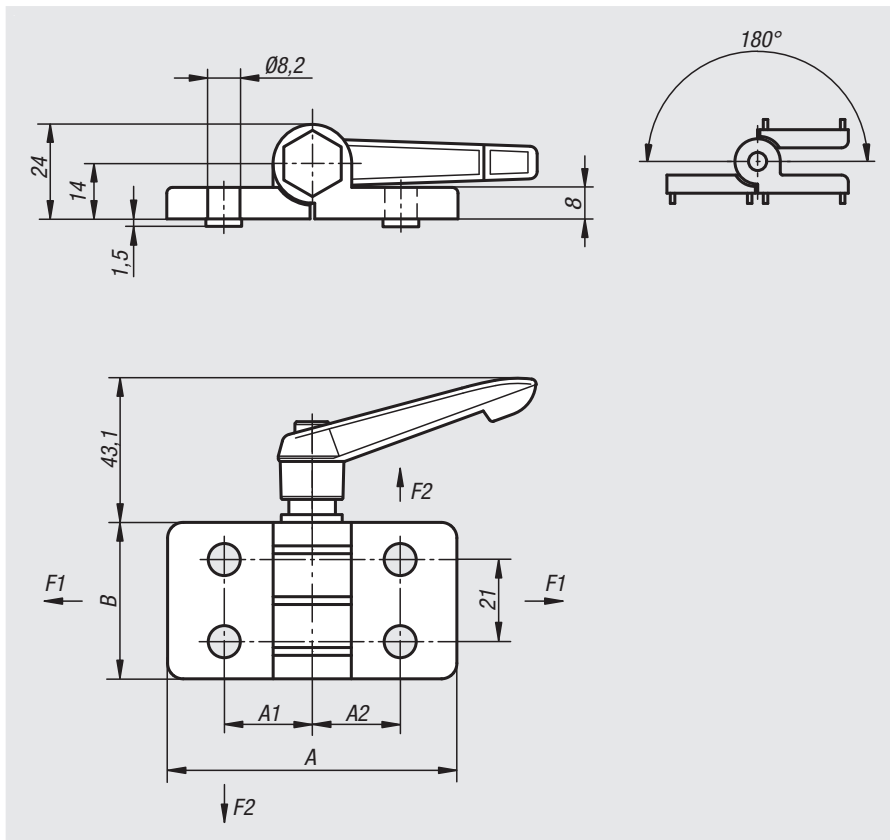
The indexable lever enables the hinge to be locked in any position.

The hinges are available with or without guide tabs for aluminium profile slots.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	B	Guide tabs for slot	F1 max. kN	F2 max. kN
27868-40232300	74	22,5	22,5	40	-	1,5	0,65
27868-40232308	74	22,5	22,5	40	8	1,5	0,65
27868-40232310	74	22,5	22,5	40	10	1,5	0,65
27868-40232500	74	22,5	25	40	-	1,5	0,65
27868-40232508	74	22,5	25	40	8	1,5	0,65
27868-40232510	74	22,5	25	40	10	1,5	0,65
27868-45252500	74	25	25	40	-	1,5	0,65
27868-45252508	74	25	25	40	8	1,5	0,65
27868-45252510	74	25	25	40	10	1,5	0,65

Hinges

aluminium, lift-off, left


Material:

Die-cast aluminium.

Hinge pin stainless steel.

Version:

Hinge silver powder coated.

Axle bright.

Sample order:

nln 27870-1251515

Note:

Hinges for panel elements and aluminium profiles.

The hinges can be fitted with plastic caps on the hinge pin.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

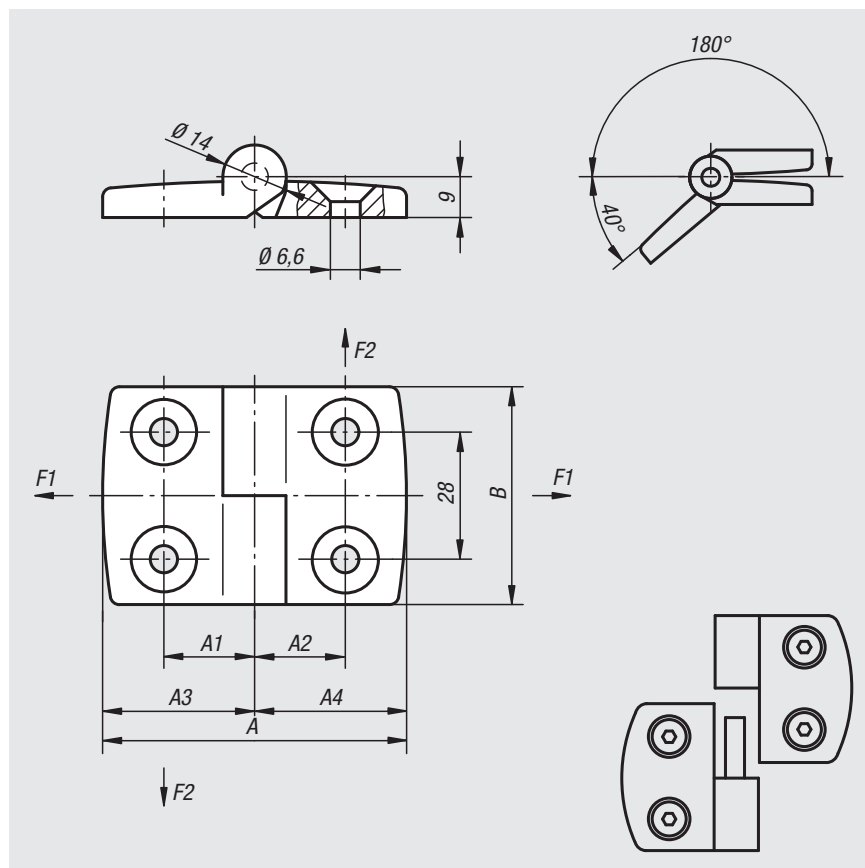
The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.

On request:

Hinges with guide tabs for aluminium profiles (slots 5, 6, 8, 10, 12 and 14).

Unequal leaf combinations.



Order No.	A	A1	A2	A3	A4	B	F1 max. kN	F2 max. kN
27870-1251515	52	15	15	26	26	48	0,41	0,25
27870-1301818	59	17,5	17,5	29,5	29,5	48	0,45	0,28
27870-1352020	72	20	20	36	36	48	0,5	0,25
27870-1402323	77	22,5	22,5	38,5	38,5	48	0,55	0,2
27870-1452525	87	25	25	43,5	43,5	48	0,55	0,2
27870-1502828	97	27,5	27,5	48,5	48,5	48	0,55	0,175
27870-1603333	115	32,5	32,5	57,5	57,5	48	0,575	0,15

Hinges

aluminium, lift-off, right


Material:

Die-cast aluminium.

Hinge pin stainless steel.

Version:

Hinge silver powder coated.

Axle bright.

Sample order:

nlm 27870-2251515

Note:

Hinges for panel elements and aluminium profiles.

The hinges can be fitted with plastic caps on the hinge pin.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

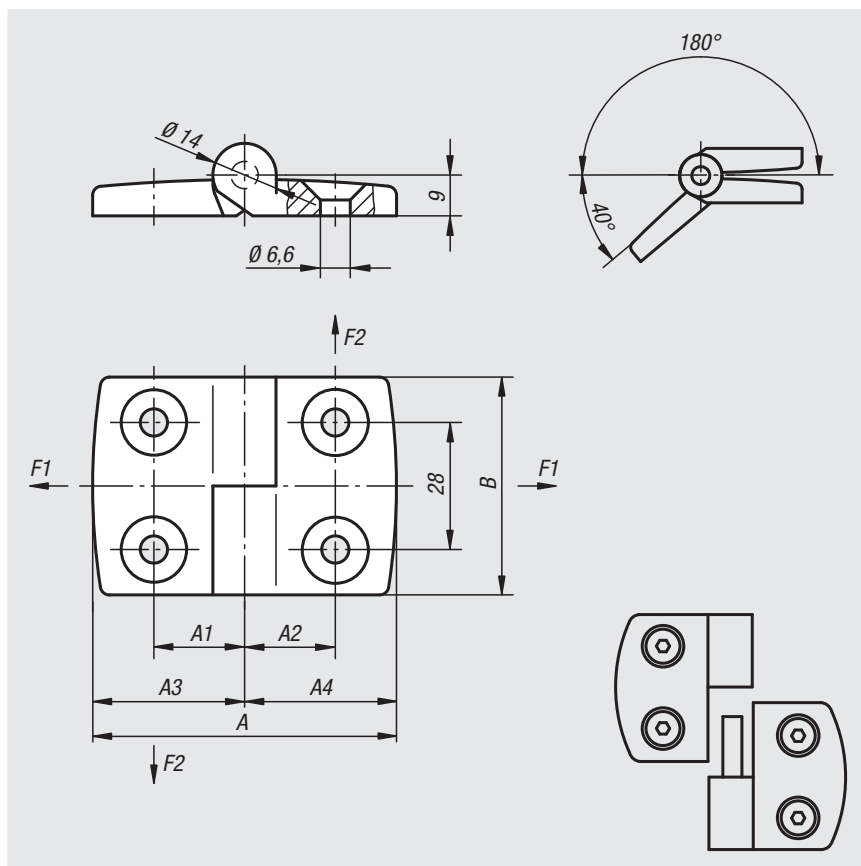
The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.

On request:

Hinges with guide tabs for aluminium profiles (slots 5, 6, 8, 10, 12 and 14).

Unequal leaf combinations.



Order No.	A	A1	A2	A3	A4	B	F1 max. kN	F2 max. kN
27870-2251515	52	15	15	26	26	48	0,41	0,25
27870-2301818	59	17,5	17,5	29,5	29,5	48	0,45	0,28
27870-2352020	72	20	20	36	36	48	0,5	0,25
27870-2402323	77	22,5	22,5	38,5	38,5	48	0,55	0,2
27870-2452525	87	25	25	43,5	43,5	48	0,55	0,2
27870-2502828	97	27,5	27,5	48,5	48,5	48	0,55	0,175
27870-2603333	115	32,5	32,5	57,5	57,5	48	0,575	0,15

Hinges lift-off

stainless steel



Material:

Hinge stainless steel 1.4401.
Pin stainless steel 1.4104.

Version:

High-gloss polished.

Sample order:

nln 27870-01-06261515

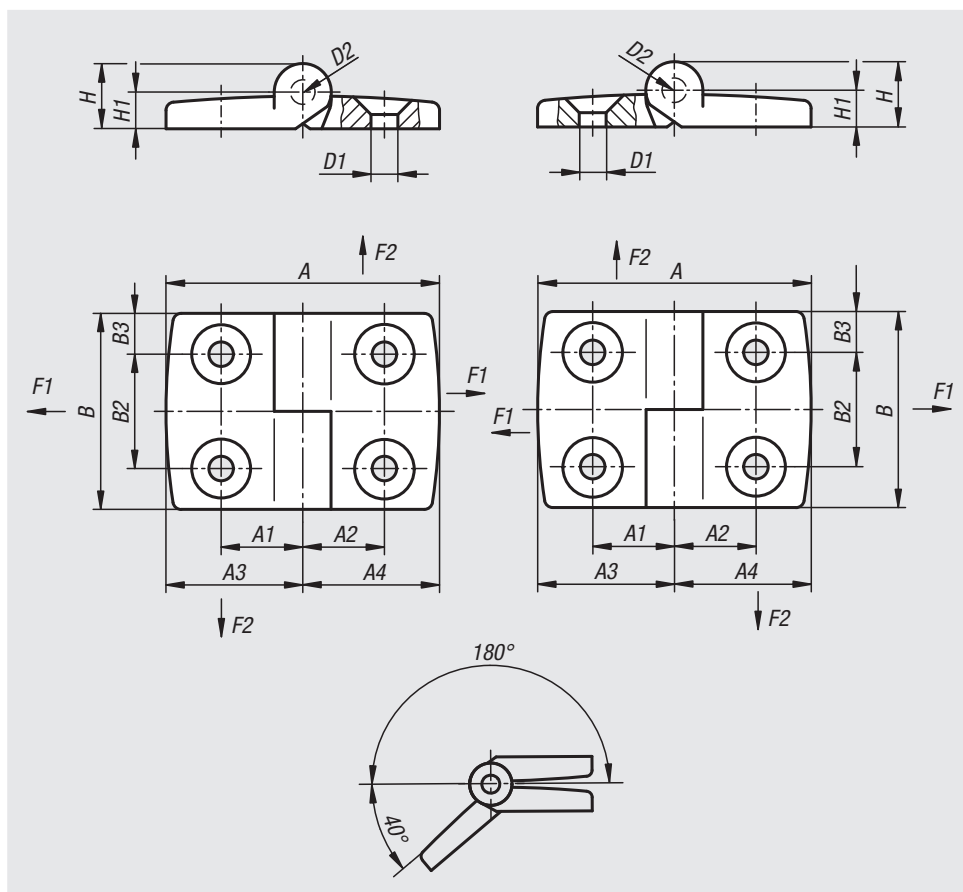
Note:

Hinge for panel elements and aluminium profiles, lift-off. Pin end closed. Screws countersunk, thus minimum dirt accumulation.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No. left	Order No. right	A	A1	A2	A3	A4	B	B2	B3	D1	D2	H	H1	Load capacity N	F1 max. kN	F2 max. kN
27870-01-16261515	27870-01-06261515	52	15	15	26	26	48	28	10	6,6	6	16	9	5000	0,9	0,625
27870-01-16301818	27870-01-06301818	59	17,5	17,5	29,5	29,5	48	28	10	6,6	6	16	9	5000	1	0,71
27870-01-16392323	27870-01-06392323	77	22,5	22,5	38,5	38,5	48	28	10	6,6	6	16	9	5000	1,2	0,5
27870-01-16442525	27870-01-06442525	87	25	25	43,5	43,5	48	28	10	6,6	6	16	9	5000	1,2	0,45
27870-01-16583333	27870-01-06583333	115	32,5	32,5	57,5	57,5	48	28	10	6,6	6	16	9	5000	1,2	0,35

Hinges

aluminium


Material:

Die-cast aluminium.
Hinge pin stainless steel.

Version:

Hinge silver powder coated.
Axle bright.

Sample order:

nIm 27872-251515

Note:

Hinges for panel elements and aluminium profiles, non lift-off.
The hinges can be fitted with plastic caps on the hinge pin.

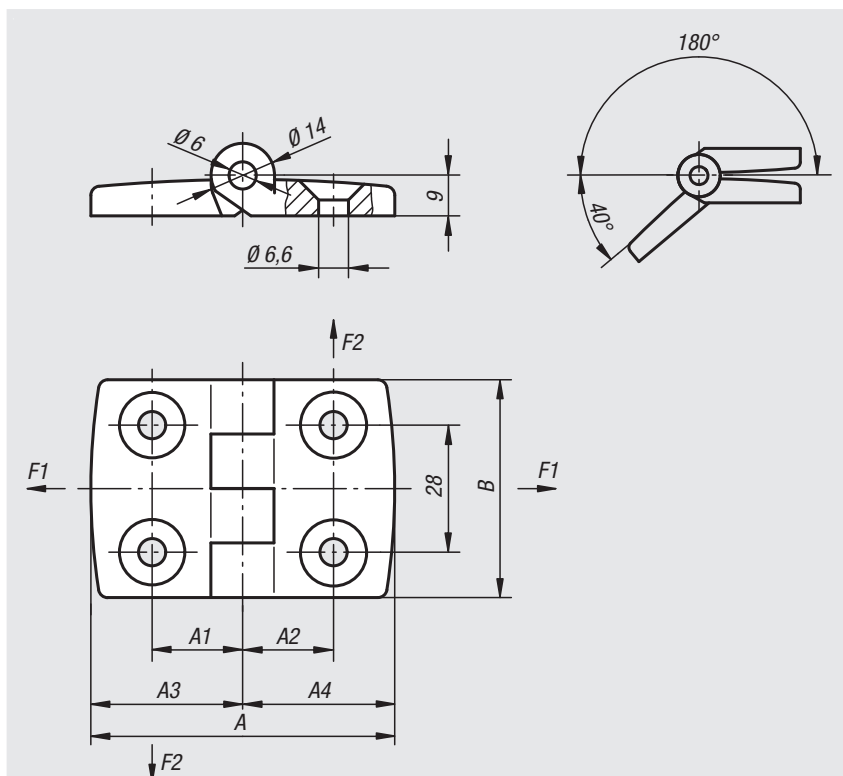
The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.

On request:

Hinges with guide tabs for aluminium profiles (slots 5, 6, 8, 10, 12 and 14).
Unequal leaf combinations.



Order No.	A	A1	A2	A3	A4	B	F1 max. kN	F2 max. kN
27872-251515	52	15	15	26	26	48	0,275	0,215
27872-301818	59	17,5	17,5	29,5	29,5	48	0,325	0,225
27872-352020	72	20	20	36	36	48	0,325	0,225
27872-402323	77	22,5	22,5	38,5	38,5	48	0,4	0,25
27872-452525	87	25	25	43,5	43,5	48	0,4	0,25
27872-502828	97	27,5	27,5	48,5	48,5	48	0,4	0,25
27872-603333	115	32,5	32,5	57,5	57,5	48	0,4	0,1

Hinges

stainless steel


Material:

Stainless steel 1.4401.

Version:

Polished.

Sample order:

nln 27875-062615151

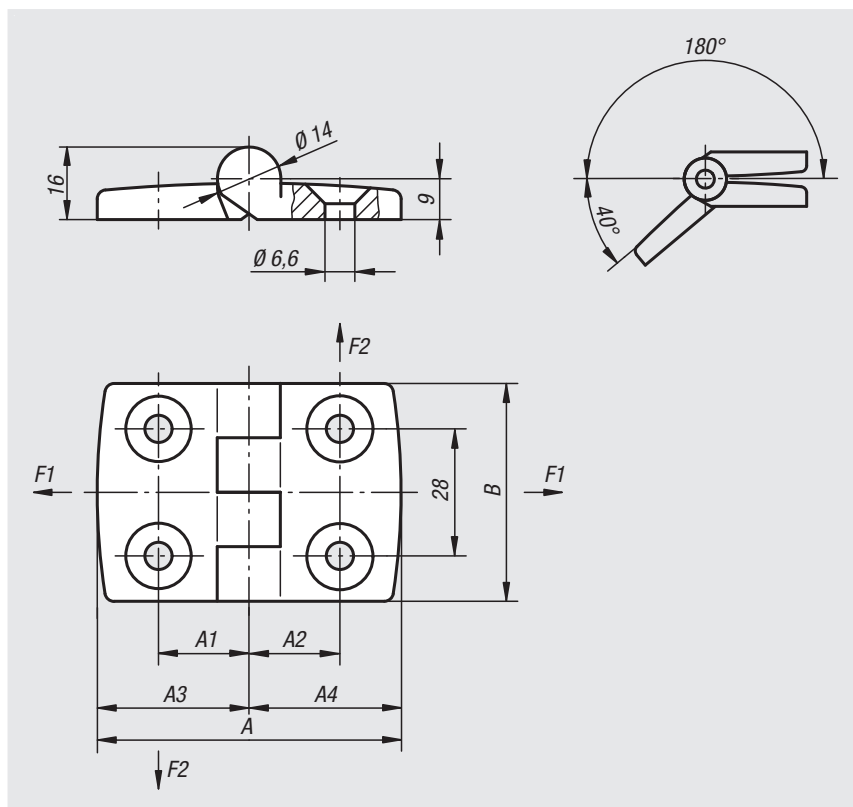
Note:

Hinges for panel elements and aluminium profiles.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	A3	A4	B	F1 max. kN	F2 max. kN
27875-062615151	52	15	15	26	26	48	0,7	0,560
27875-063018181	59	17,5	17,5	29,5	29,5	48	0,8	0,575
27875-064023231	77	22,5	22,5	38,5	38,5	48	0,9	0,675
27875-064525251	85	25	25	42,5	42,5	48	0,9	0,675
27875-066033331	113	32,5	32,5	56,5	56,5	48	0,9	0,260

Hinges

stainless steel



Material:

Hinge stainless steel 1.4401.

Pin stainless steel 1.4104.

Version:

High-gloss polished.

Sample order:

nlm 27875-01-04191212

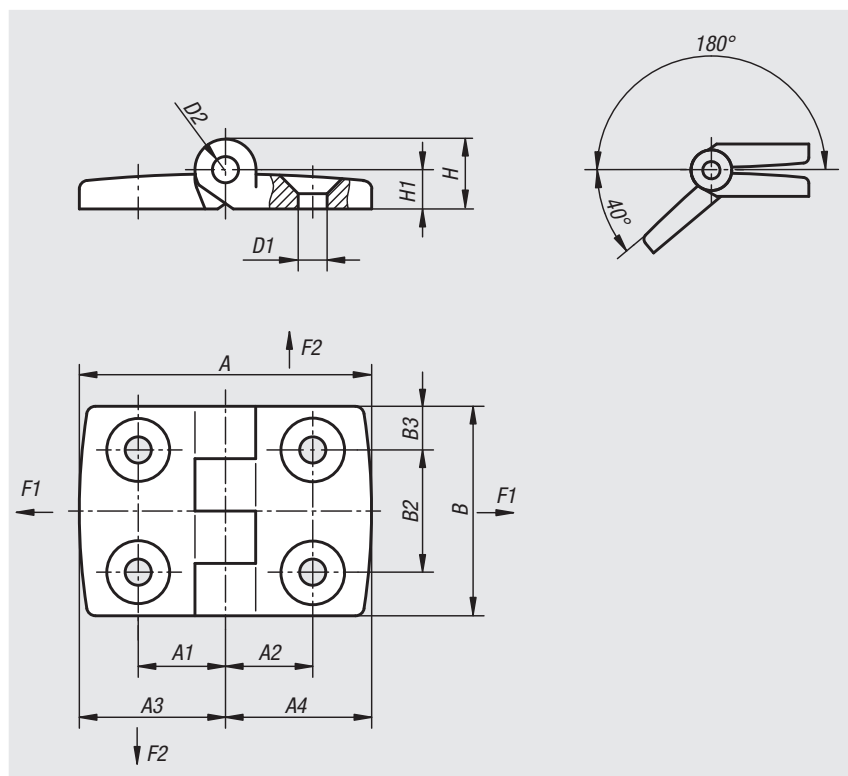
Note:

Hinge for panel elements and aluminium profiles, non lift-off.
Pin end closed. Screws countersunk, thus minimum dirt accumulation.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	A3	A4	B	B2	B3	D1	D2	H	H1	F1 max. kN	F2 max. kN
27875-01-04191212	38	11,5	11,5	19	19	30	14	8	4,5	3	9,5	5,5	0,7	0,45

Hinges lift-off

stainless steel

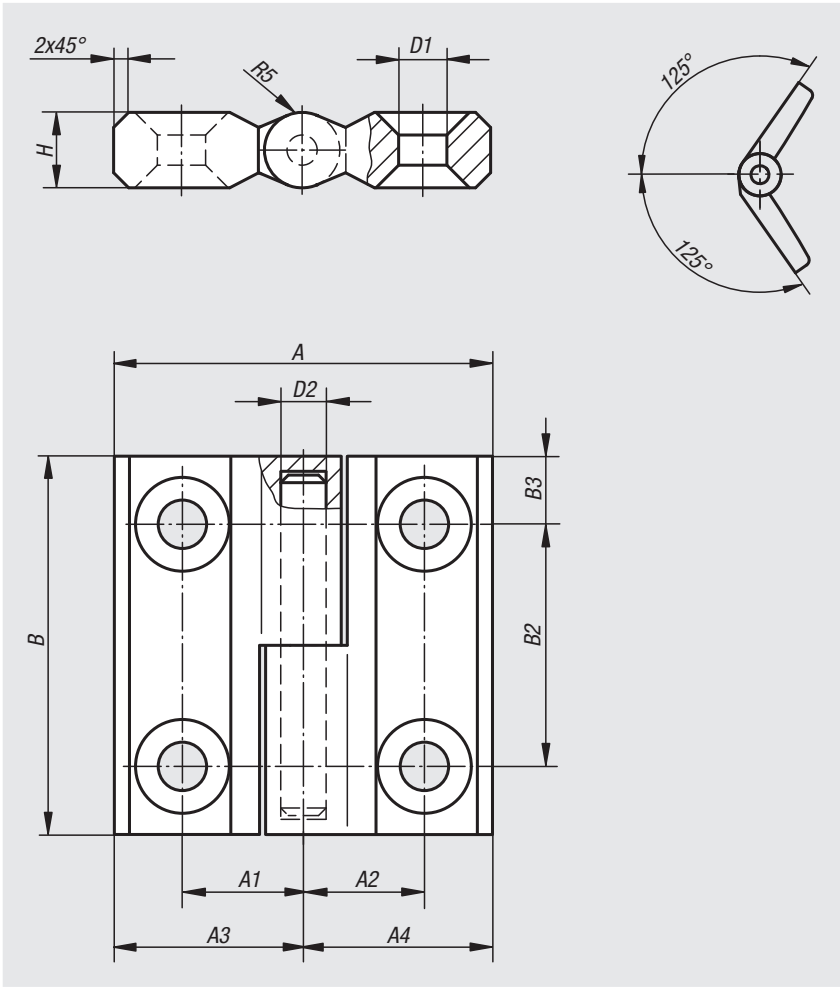


Material:
Hinge and pin stainless steel 1.4401.

Version:
Satin finished.

Sample order:
nlm 27875-89-06251616

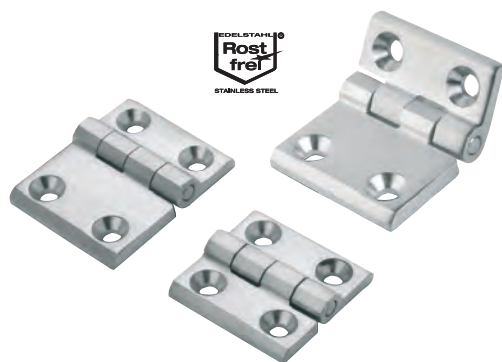
Note:
This double symmetry hinge can be mounted right or left.
The opening angle is max. 125°.



Order No.	A	A1	A2	A3	A4	B	B2	B3	D1	D2	H	Load capacity N
27875-89-06251616	50	16	16	25	25	50	32	9	6,4	6	10	5000

Hinges

stainless steel


Material:

Stainless steel 1.4401.

Version:

Satin finished.

Sample order:

nIm 27875-90-05201313

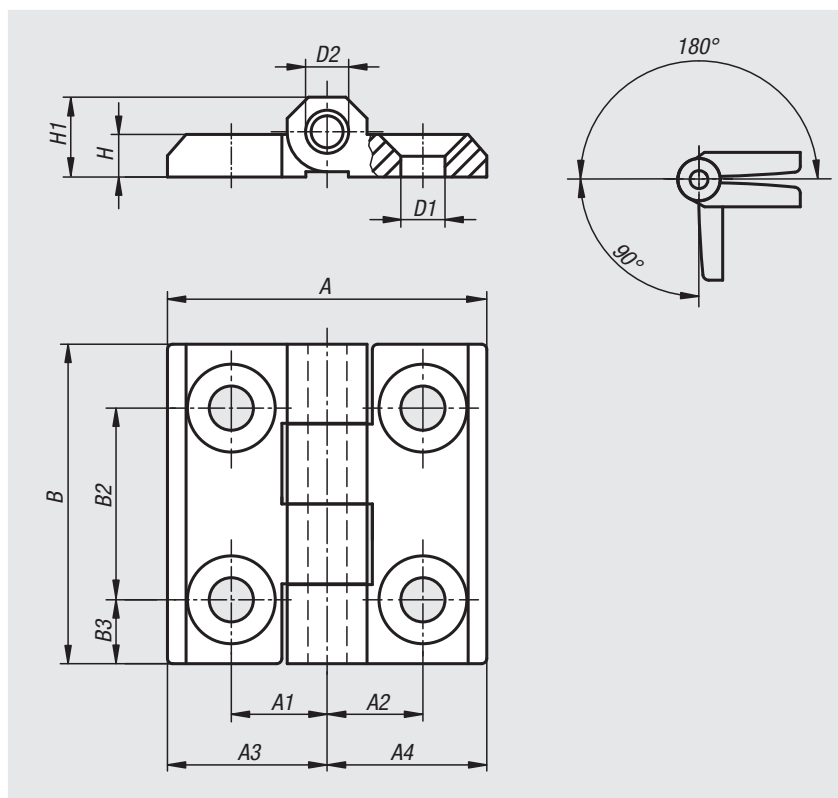
Note:

Hinge for extreme loads.

For right or left use.

Opening angle 270°.

Fastening with countersunk screws i.e. per DIN 7991.



Order No.	A	A1	A2	A3	A4	B	B2	B3	D1	D2	H	H1	Load capacity N
27875-90-05201313	40	12,5	12,5	20	20	40	25	7,5	5,2	4	5	9	2500
27875-90-06251515	50	15	15	25	25	50	30	10	6,2	6	6	11,5	5000
27875-90-08301818	60	18	18	30	30	60	36	12	8,3	8	8	15	8000
27875-90-06381528	63	28	15	38	25	50	30	10	6,5	6	6	11,5	5000
27875-90-06382828	76	28	28	38	38	50	30	10	6,5	6	6	11,5	5000

Hinges

stainless steel


Material:

Stainless steel 1.4401.

Version:

Polished or blasted.

Sample order:

nln 27876-052013131

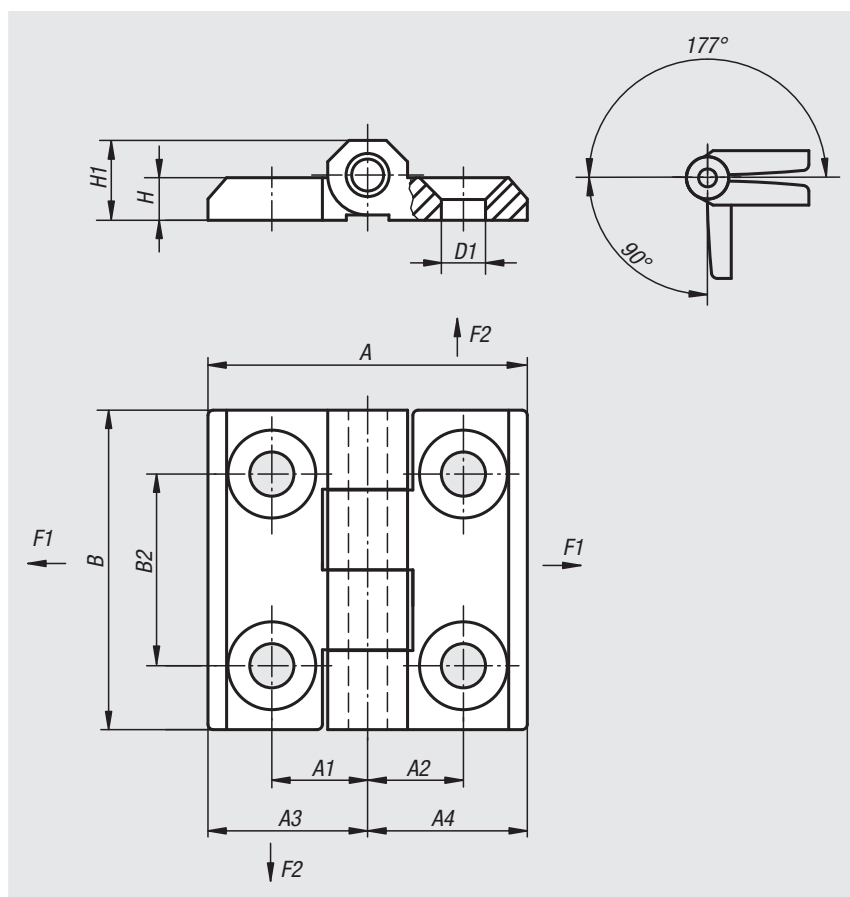
Note:

Hinges with fixed pin and countersunk holes.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	Surface finish body	A	A1	A2	A3	A4	B	B2	D1	H	H1	F1 max. kN	F2 max. kN
27876-052013130	polished	39	12,5	12,5	19,5	19,5	39	25	5,5	4	9	0,8	0,6
27876-052013131	blasted	39	12,5	12,5	19,5	19,5	39	25	5,5	4	9	0,8	0,6
27876-062515150	polished	50	15	15	25	25	50	30	6,5	6	12	1,1	0,9
27876-062515151	blasted	50	15	15	25	25	50	30	6,5	6	12	1,1	0,9
27876-083018180	polished	60	18	18	30	30	60	36	8,5	8	15	2	1,5
27876-083018181	blasted	60	18	18	30	30	60	36	8,5	8	15	2	1,5

Single leaf hinges

adjustable, stainless steel


Material:

Stainless steel 1.4571.

Version:

Satin finished.

Sample order:

nlm 27876-01-06884617

Note:

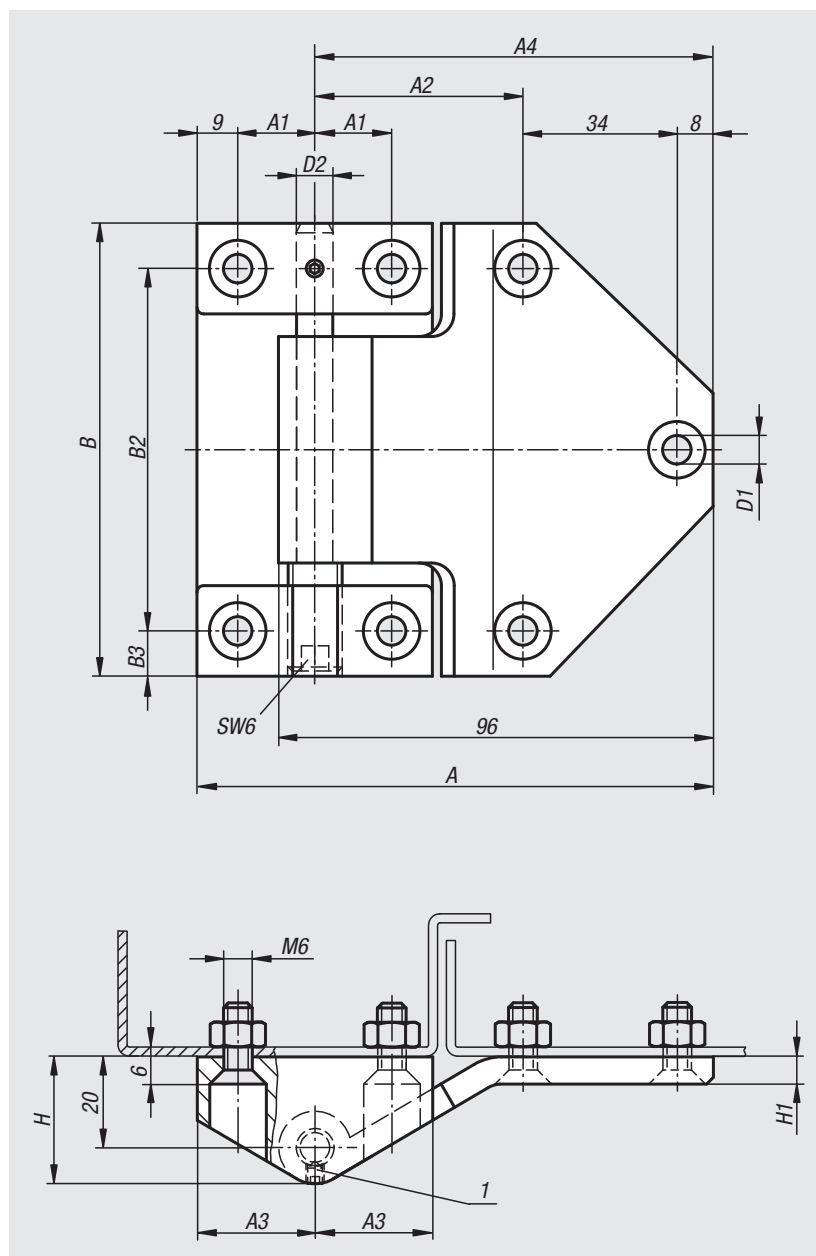
Single leaf hinge for inwards opening doors, screws on from outside. A screw on the hinge pin allows height adjustment of ± 4 mm.

The addition of titanium in stainless steel 1.4571 increases the corrosion resistance.

The opening angle is max. 180°.

Drawing reference:

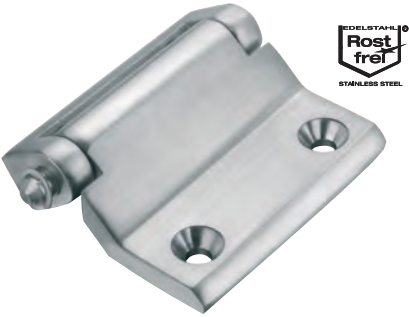
1) grub screw M4, DIN 916



Order No.	A	A1	A2	A3	A4	B	B2	B3	D1	D2	H	H1
27876-01-06884617	114	17	46	26	88	100	80	10	6,3	8	28	6

Hinges

stainless steel

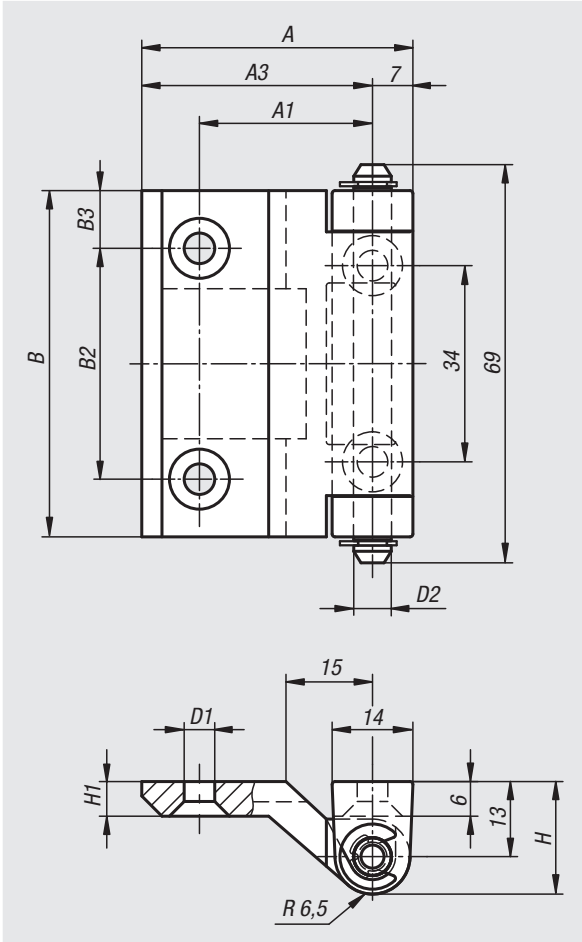


Material:
Hinge body stainless steel 1.4401.
Pin and retaining rings stainless steel 1.4305.

Version:
Satin finished.

Sample order:
nlm 27876-02-0540073000

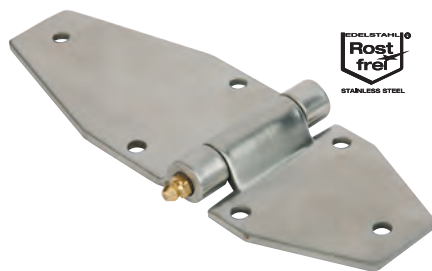
Note:
Hinge for flush constructions.
Right or left mounting.
Ideal for mounting on narrow frames.
The opening angle is max. 220°.



Order No.	A	A1	A3	B	B2	B3	D1	D2	H	H1
27876-02-0540073000	47	30	40	60	40	10	5,3	6,5	19,5	6

Strap hinges

stainless steel with grease nipple


Material:

Stainless steel 1.4301.

Version:

Matt polished.

Sample order:

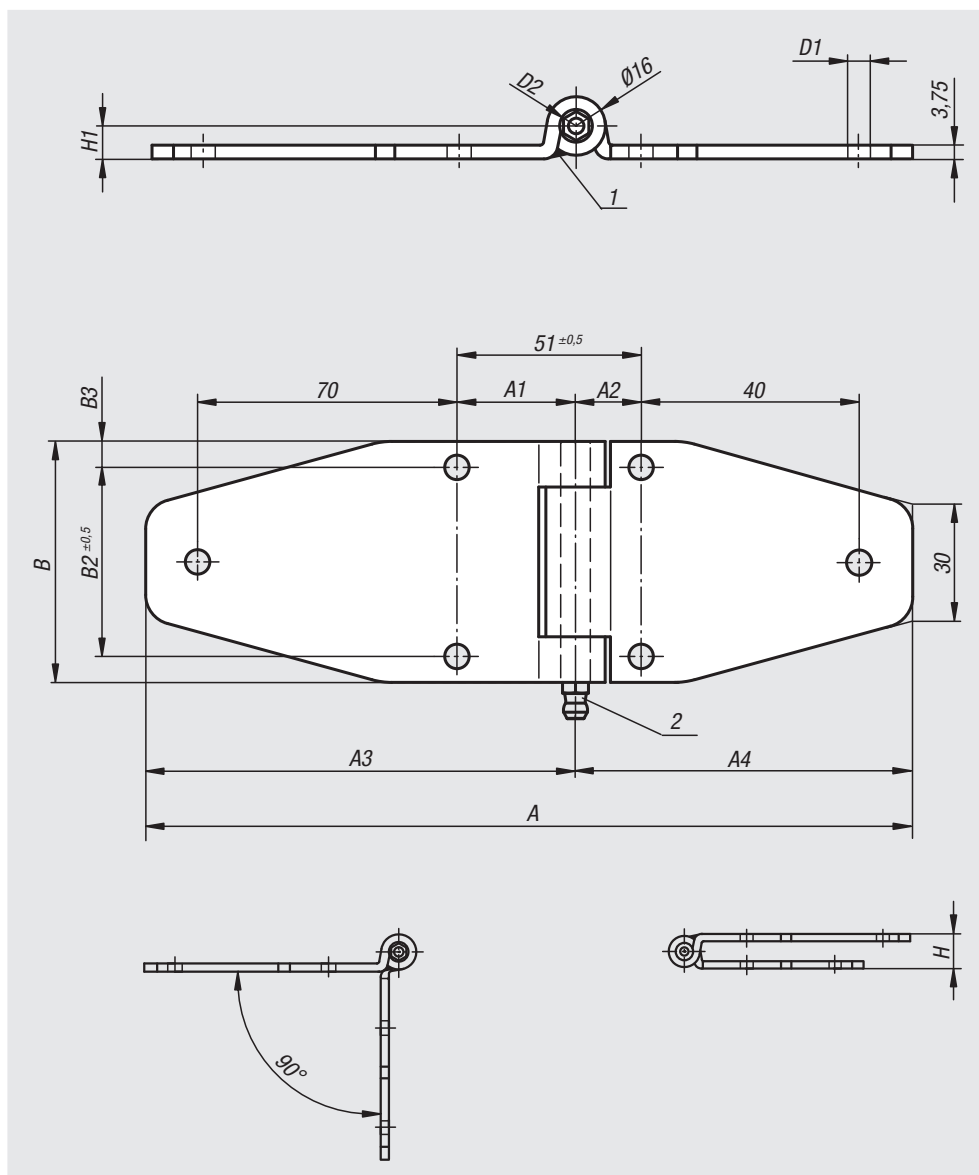
nlm 27876-05-06701161932

Note:

Strap hinge for inwards opening doors.
The opening angle is max. 270°.

Drawing reference:

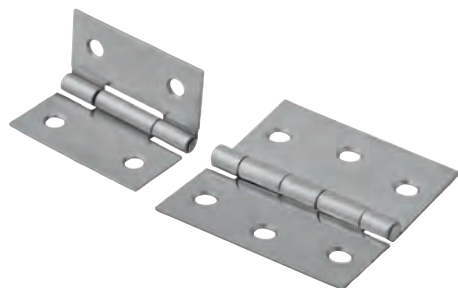
- 1) Rolled ends of long leaf welded
- 2) Grease nipple



Order No.	A	A1	A2	A3	A4	B	B2	B3	D1	D2	H	H1
27876-05-06701161932	186	32	19	116	70	65	51	7	6,6	8	18	9

Hinges

sheet steel or sheet stainless steel


Material:

Steel or stainless steel 1.4301.

Version:

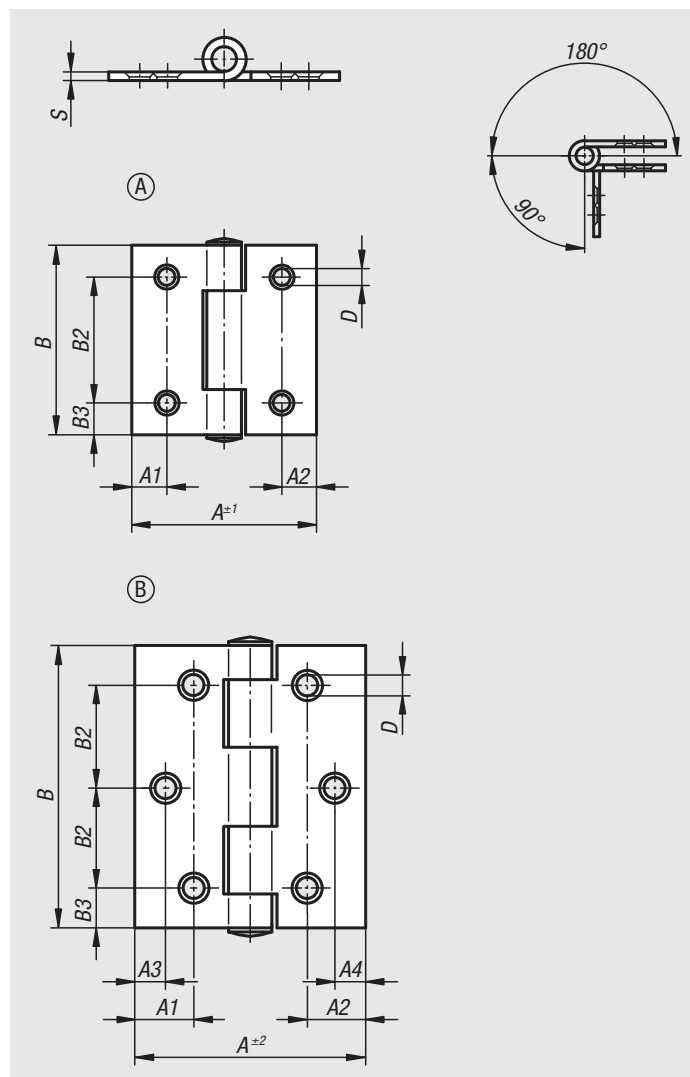
Steel electro zinc-plated.
Stainless steel bright.

Sample order:

nIm 27877-04201212

Note:

Rolled plate butt hinges.
Pins are riveted.
Screw holes countersunk.



Order No.	Material	Form	A1	A2	A3	A4	A	B	B2	B3	D	S
27877-04201212	steel	A	8,5	8,5	-	-	40	40	25	7,5	4	1
27877-04301515	steel	B	15	15	8	8	60	60	22,5	7,5	4,5	1,5
27877-104201212	stainless steel	A	8,5	8,5	-	-	40	40	25	7,5	4	1
27877-104251414	stainless steel	B	11	11	8	8	50	50	18	7	4,5	1,25
27877-104301515	stainless steel	B	15	15	8	8	60	60	22,5	7,5	4,5	1,5
27877-105401515	stainless steel	B	25,3	25,3	12	12	80	80	30	10	5,2	1,5

Butt hinges

stainless steel


Material:

Stainless steel 1.4301.

Version:

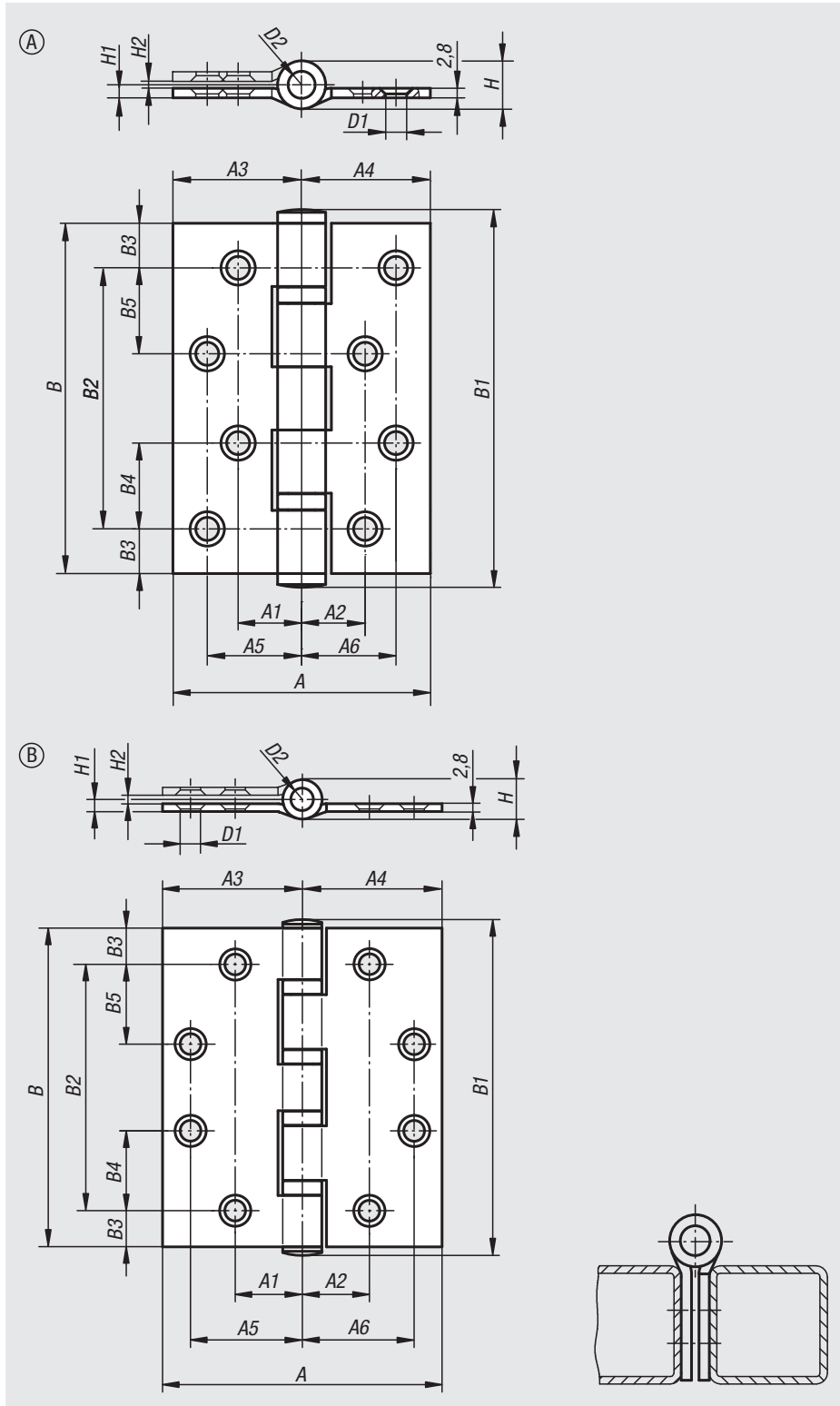
Matt polished.

Sample order:

nIm 27877-01-06371919

Note:

Butt hinge for inwards opening doors.
The opening angle is max. 270°.



Order No.	Form	A	A1	A2	A3	A4	A5	A6	B	B1	B2	B3	B4	B5	D1	D2	H	H1	H2	Load capacity N
27877-01-06371919	A	75	18,5	18,5	37,5	37,5	27,5	27,5	102	110	76	13	25	25	6,7	8	14	3,8	2	8000
27877-01-07502424	B	100	24	24	50	50	40	40	114	120	88	13	28,5	28,5	7,3	8	14	4,3	3	8000

Hinges, stainless steel

**Material:**

Stainless steel 1.4310.

Version:

Bright.

Sample order:

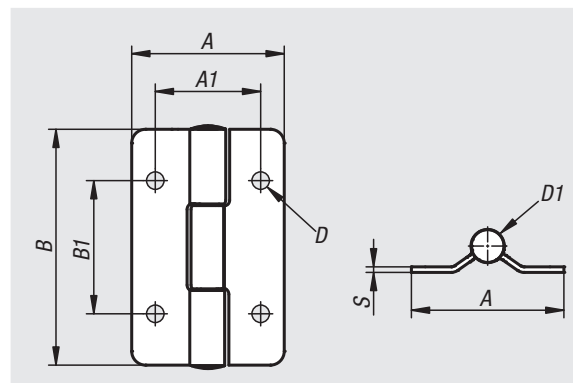
nlm 27877-02-558508

Note:

Opening angle is max. 270°.

Accessories:

Hinges, stainless steel with preset friction 27860-01



Order No.	A	A1	B	B1	D	D1	S
27877-02-558512	55	38	85	48	6,3	12	2
27877-02-558516	55	38	85	48	6,3	16	2

Hinges steel or stainless steel

internal, opening angle 90°


Material:

Steel, pins and connecting elements 1.4016
stainless steel.

Stainless steel, all components 1.4404 stainless
steel.

Version:

Electro zinc-plated.

Bright.

Sample order:

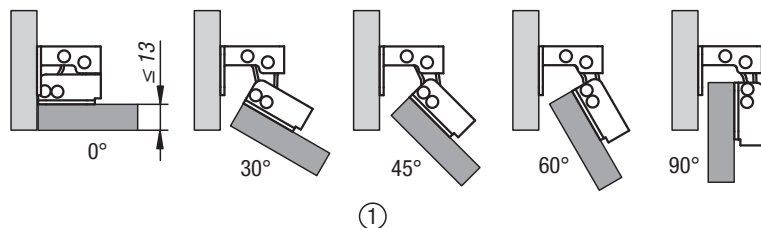
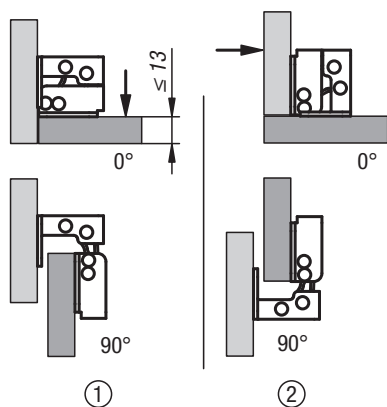
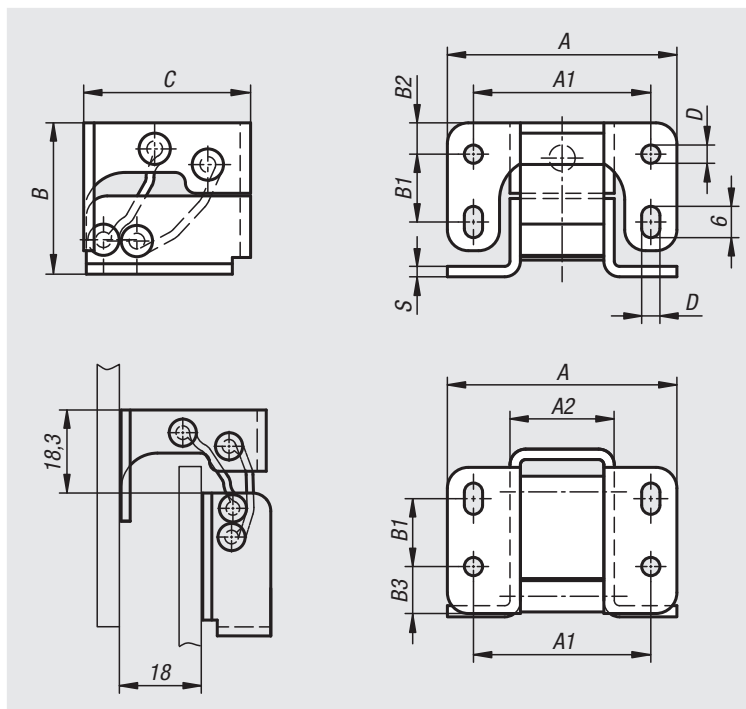
nIm 27879-442932

Assembly:

- For recessed or surface mounting.
- Can be mounted on right or left side.
- For horizontal or vertical applications.

Drawing reference:

- 1) recessed mounting
- 2) surface mounting



Order No.	Main material	A	A1	A2	B	B1	B2	B3	C	D	S
27879-442932	steel	44	34	20	29	13	6	9,5	32	3,5	2
27879-1442932	stainless steel	44	34	20	29	13	6	9,5	32	3,5	2

Hinges steel or stainless steel

internal, opening angle 125°



Material:

Steel, axis and connecting elements anodised aluminium.
Stainless steel 1.4404, axis and connecting elements anodised aluminium.

Version:

Electro zinc-plated.
Bright.

Sample order:

nIm 27879-01-442932

Note:

The hinges are resistant to bending and torsion.

The opening angle depends on the door thickness:

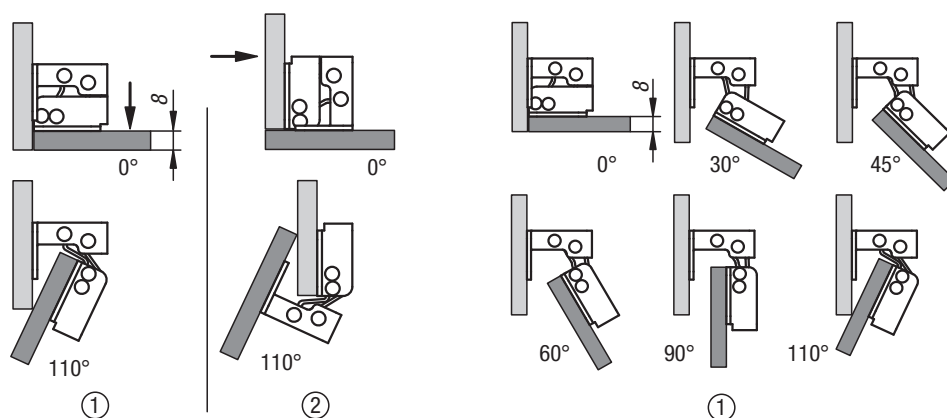
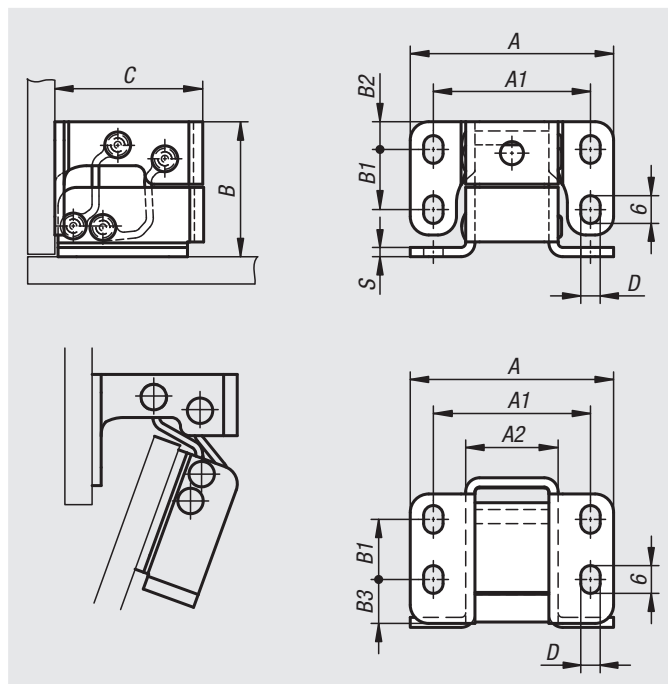
- max. 2 mm material thickness: opening angle 125°
- max. 8 mm material thickness: opening angle 110°
- max. 13 mm material thickness: opening angle 100°

Assembly:

- For recessed or surface mounting.
- Can be mounted on right or left side.
- For horizontal or vertical applications.

Drawing reference:

- 1) recessed mounting
- 2) surface mounting



Order No.	Main material	A	A1	A2	B	B1	B2	B3	C	D	S
27879-01-442932	steel	44	34	20	29	13	6	9,5	32	4,2	2
27879-01-1442932	stainless steel	44	34	20	29	13	6	9,5	32	4,2	2

Hinges steel

internal, opening angle 110°


Material:

Steel, pins and connecting elements anodised aluminium.

Version:

Electro zinc-plated.

Sample order:

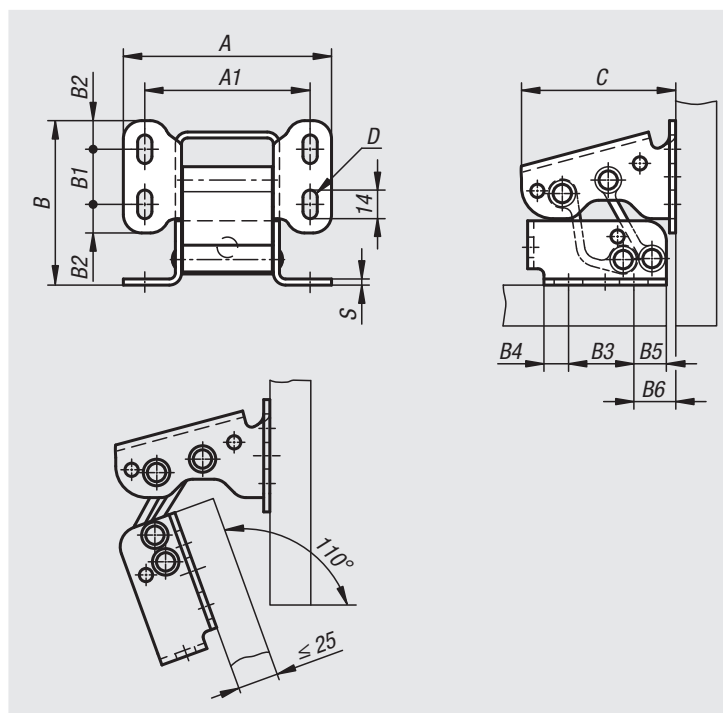
nIm 27879-02-1028076

Note:

These hinges are the reinforced version.
When hung on 2 hinges a 25 kg door can be opened and closed 10,000 times.

Application:

Invisible hinges for overlapping or inset doors.



Order No.	A	A1	B	B1	B2	B3	B4	B5	B6	C	D	S
27879-02-1028076	102	81	80,5	27	14	32	12	16	20,5	76	7	3

Hinges, steel, in-frame

opening angle 110°


Material:

Steel.

Version:

Electro zinc-plated.

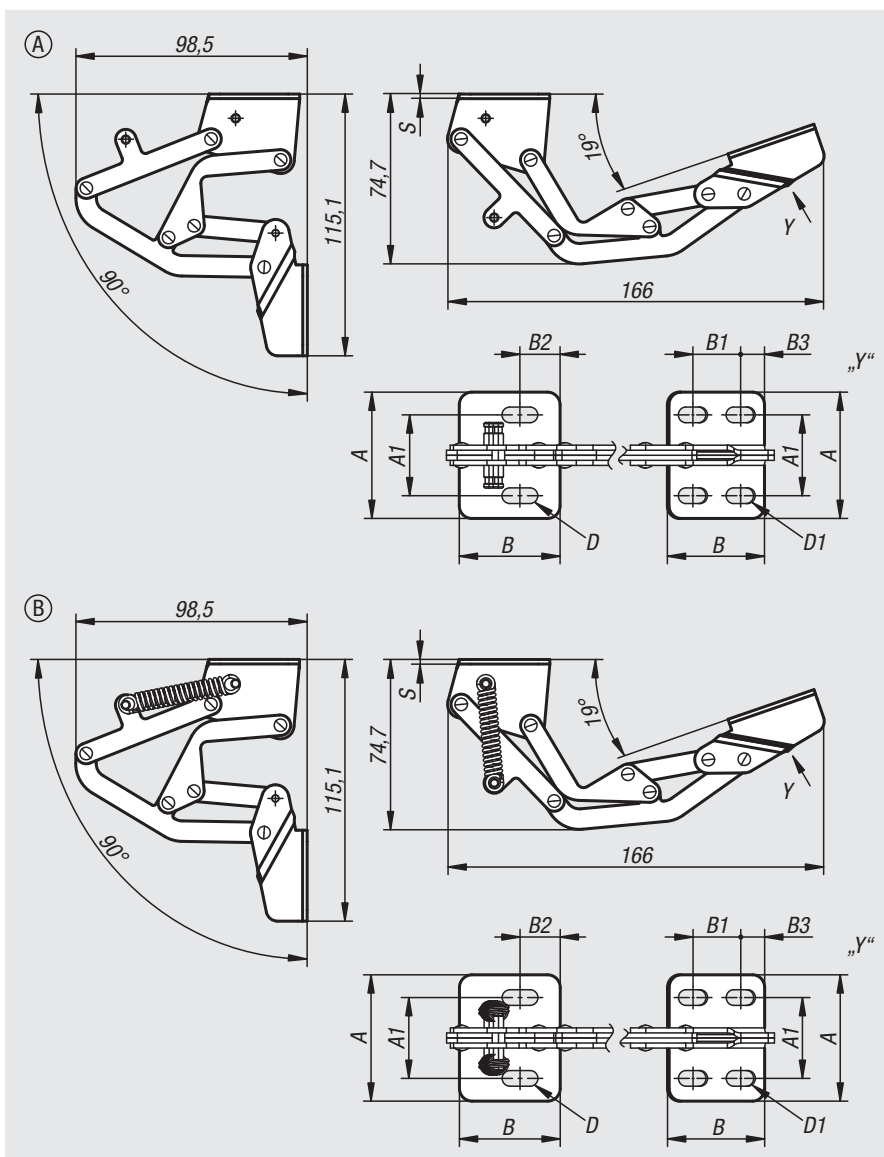
Sample order:

nIm 27879-10-50400

Note:

The hinges are suitable exclusively for horizontal applications.

The version with spring achieves a torque of 3.2 Nm when opening and a torque of 3.8 Nm when closing. Opening angle 110°.



Order No.	Form	Product type	A	A1	B	B1	B2	B3	D	D1	S
27879-10-50400	A	in-frame hinge	50	32	40	20	16	10	6,2x14,2	6,2x12,2	2
27879-10-50401	B	hinges, in-frame with spring	50	32	40	20	16	10	6,2x14,2	6,2x12,2	2

Hinges

plastic with bushes



Material:

Fibreglass reinforced thermoplastic.

Hinge pin steel.

Bushes brass.

Version:

Hinge black.

Hinge pin electro zinc-plated.

Sample order:

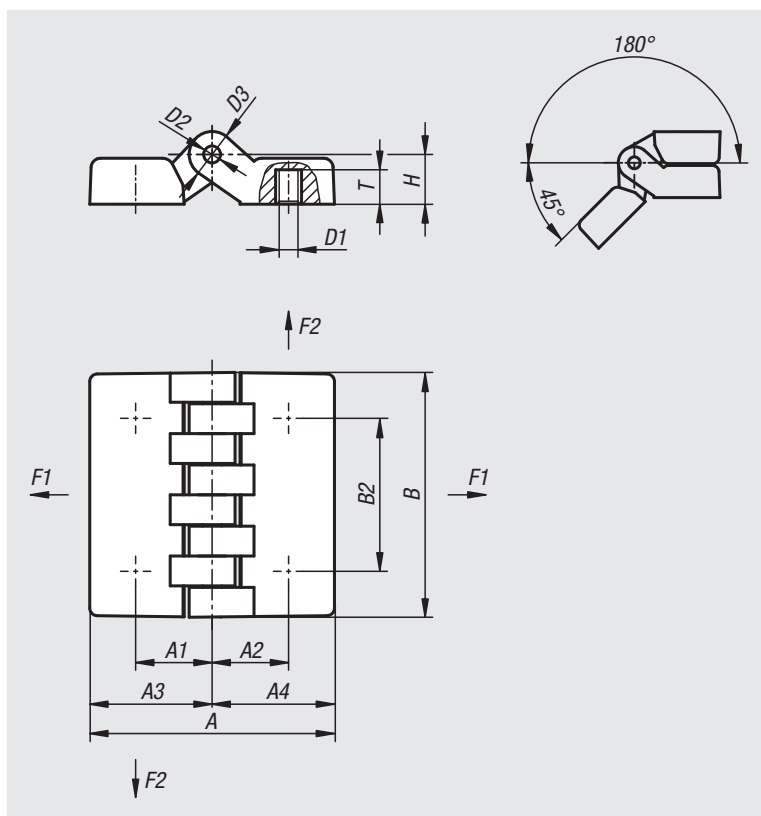
nln 27880-05241515

Note:

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

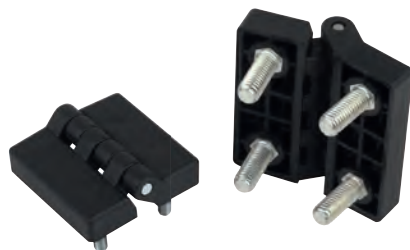
Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	A3	A4	B	B2	D1	D2	D3	H	T	F1 N	F2 N
27880-05241515	48	15	15	24	24	48	30	M5	5	10	10,5	7	2000	1370
27880-06241515	48	15	15	24	24	48	30	M6	5	10	10,5	7	2000	1370
27880-06322020	64	20	20	32	32	64	40	M6	5	12	13	9	4100	1800
27880-08322020	64	20	20	32	32	64	40	M8	5	12	13	9	4100	1800
27880-08483232	95	31,5	31,5	47,5	47,5	95	60	M8	8	18	19	13	2450	2650
27880-10483232	95	31,5	31,5	47,5	47,5	95	60	M10	8	18	19	13	2450	2650

Hinges

plastic with fastening screws



Material:

Fibreglass reinforced thermoplastic.
Hinge pin steel.

Version:

Hinge black.
Hinge pin electro zinc-plated.

Sample order:

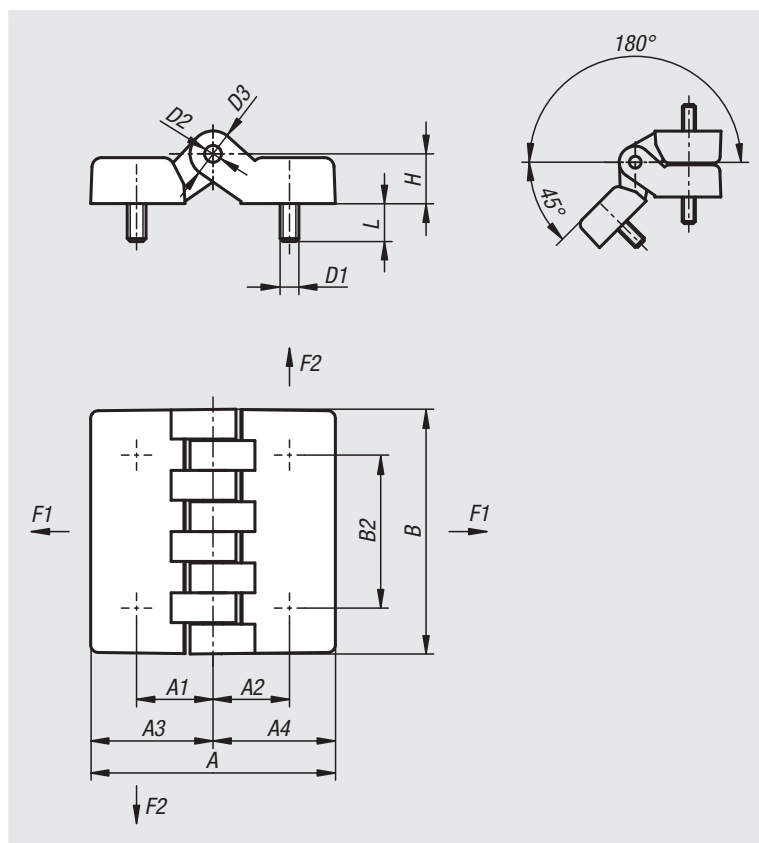
nlm 27882-05241515

Note:

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	A3	A4	B	B2	D1	D2	D3	H	L	F1 N	F2 N
27882-05241515	48	15	15	24	24	48	30	M5	5	10	10,5	15	1780	1370
27882-06241515	48	15	15	24	24	48	30	M6	5	10	10,5	15	1780	1370
27882-06322020	64	20	20	32	32	64	40	M6	5	12	13	20	4120	1760
27882-08322020	64	20	20	32	32	64	40	M8	5	12	13	20	4120	1760
27882-08483232	95	31,5	31,5	47,5	47,5	95	60	M8	8	18	19	20	4900	1275
27882-10483232	95	31,5	31,5	47,5	47,5	95	60	M10	8	18	19	20	4900	1275

Hinges

plastic with bush and fastening screws


Material:

Fibreglass reinforced thermoplastic.

Hinge pin steel.

Bushes brass.

Version:

Hinge black.

Hinge pin electro zinc-plated.

Sample order:

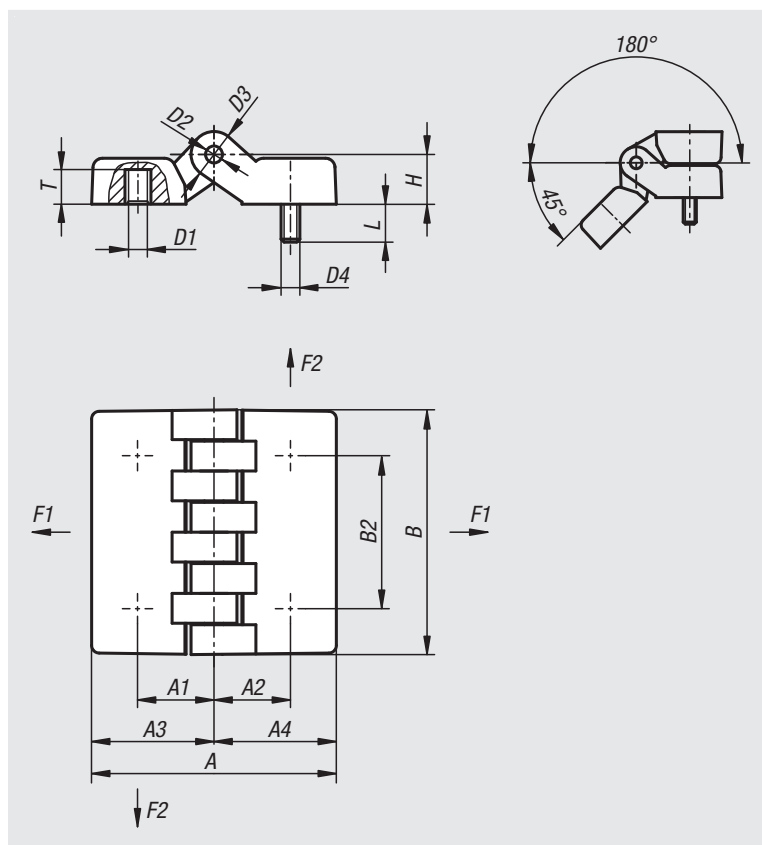
nln 27884-05241515

Note:

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Order No.	A	A1	A2	A3	A4	B	B2	D1	D2	D3	D4	H	L	T	F1 N	F2 N
27884-05241515	48	15	15	24	24	48	30	M5	5	10	M5	10,5	15	7	1850	1350
27884-06241515	48	15	15	24	24	48	30	M6	5	10	M6	10,5	15	7	1850	1350
27884-06322020	64	20	20	32	32	64	40	M6	5	12	M6	13	20	9	4000	1600
27884-08322020	64	20	20	32	32	64	40	M8	5	12	M8	13	20	9	4000	1600
27884-08483232	95	31,5	31,5	47,5	47,5	95	60	M8	8	18	M8	19	20	13	3100	1400
27884-10483232	95	31,5	31,5	47,5	47,5	95	60	M10	8	18	M10	19	20	13	3100	1400

Hinges

weldable

Material:

Hinge steel.
Spacer washer brass.
Hinge pin steel or brass.

Version:

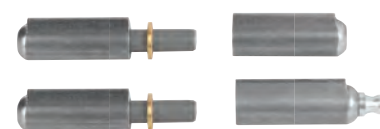
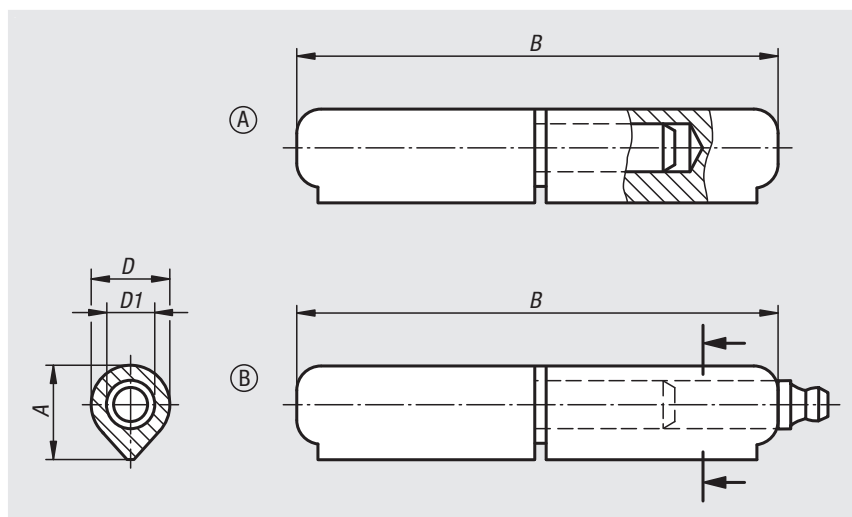
Grease nipple DIN 71412-D, electro zinc-plated steel.
Steel parts, bright.

Sample order:

nlm 27885-008040012

Note:

The hinges are made of weldable profile steel.
The pin is fixed into the lower part of the hinge.
The differing steel qualities of the weld and the beam onto which the hinge is welded must be at least equal to or better than:
S235 JR+AR acc. to EN 10025-2:2004-10
DIN 8563 part 3 or Fe E 235 acc. to SIA 161



Order No.	Form	Component material	A	B	D	D1
27885-008040012	A	steel	9,7	40	8	5
27885-008050012	A	steel	9,7	50	8	5
27885-010060012	A	steel	12,7	60	10	6
27885-010070012	A	steel	12	70	10	6
27885-013080012	A	steel	15,5	80	13	8
27885-016100012	A	steel	20	100	16	10
27885-016120012	A	steel	20	120	16	11
27885-018135012	A	steel	22	135	18	12
27885-020150012	A	steel	25	150	20	13
27885-020180012	A	steel	25	180	20	14
27885-023200012	A	steel	28,5	200	23	16
27885-008040022	A	brass	9,7	40	8	5
27885-008050022	A	brass	9,7	50	8	5
27885-010060022	A	brass	12,7	60	10	6
27885-010070022	A	brass	12	70	10	6
27885-013080022	A	brass	15,5	80	13	8
27885-016100022	A	brass	20	100	16	10
27885-016120022	A	brass	20	120	16	11
27885-018135022	A	brass	22	135	18	12
27885-020150022	A	brass	25	150	20	13
27885-020180022	A	brass	25	180	20	14
27885-023200022	A	brass	28,5	200	23	16
27885-113080012	B	steel	16	80	13	8
27885-116100012	B	steel	20	100	16	10
27885-116120012	B	steel	20	120	16	10
27885-118135012	B	steel	22,5	135	18	12
27885-120150012	B	steel	25,5	150	20	13
27885-120180012	B	steel	25	180	20	14
27885-123200012	B	steel	29	200	23	16

Hinges

weldable, stainless steel


Material:

Stainless steel 1.4305.

Version:

Bright.

Sample order:

nlm 27886-010060033

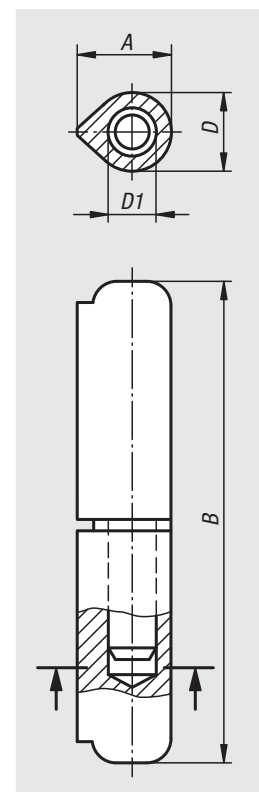
Note:

The hinges are made of weldable profile steel.

The pin is fixed into the lower part of the hinge.

The differing steel qualities of the weld and the beam onto which the hinge is welded must be at least equal to or better than:

Stainless steel 1.4301.



Order No.	A	B	D	D1
27886-010060033	12	60	10	6
27886-013080033	15,5	80	13	8
27886-016100033	20	100	16	10
27886-016120033	20	120	16	11
27886-020150033	25,5	150	20	13
27886-020180033	25,5	180	20	14

Hinges

weldable, stainless steel

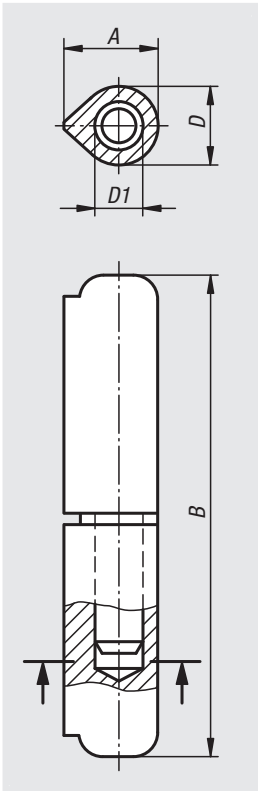


Material:
Stainless steel 1.4404.

Version:
Satin finished.

Sample order:
nlm 27886-01-013079

Note:
The hinges are made of weldable profile steel.
The pin is fixed into the lower part of the hinge.
The differing steel qualities of the weld and the beam onto which the hinge is welded must be at least equal to or better than:
Stainless steel 1.4404

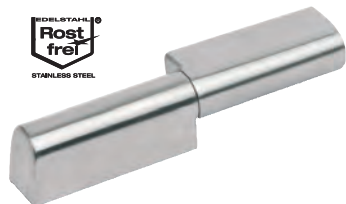


Order No.	A	B	D	D1
27886-01-016080	20	80	16	10
27886-01-016100	20	100	16	10
27886-01-016120	20	120	16	11

20000
21000
22000
23000
24000
26000
27000
28000
29000
31000
32000
33000

In-line hinges stainless steel

lift-off, screw-on



Material:

Stainless steel 1.4401.

Version:

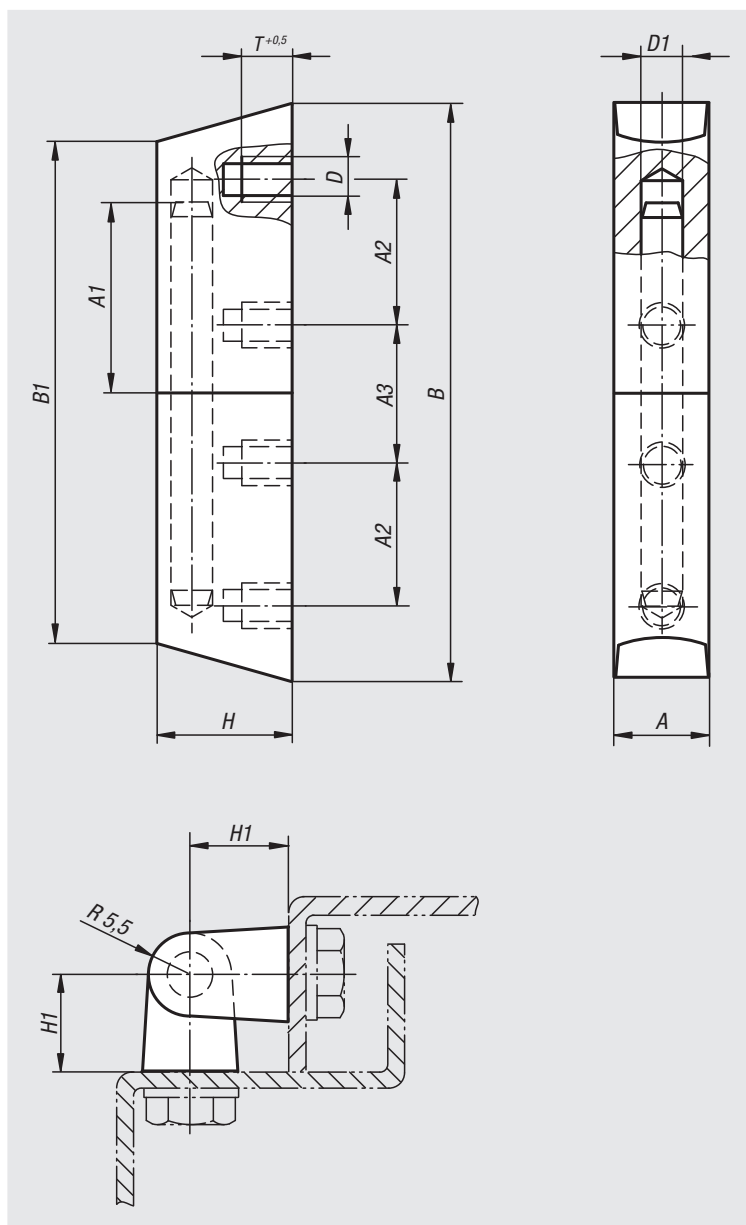
Satin finished.

Sample order:

nln 27886-03-1761218

Note:

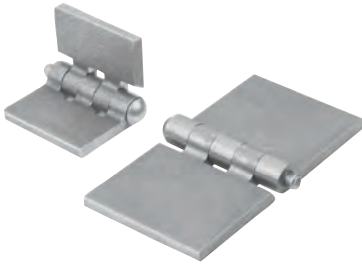
Lift-off inline hinge, right or left mounting.
The sloping hinge ends prevent the accumulation of dirt.



Order No.	A	A1	A2	A3	B	B1	D	D1	T	H	H1
27886-03-1761218	12,5	23	19	18	76	66	M6	6	6	18,5	13

Hinges

weldable

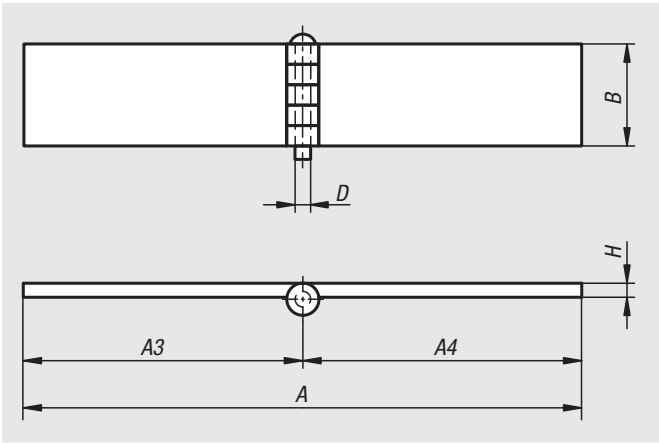


Material:
Steel.

Version:
Bright.

Sample order:
nlm 27888-04030040

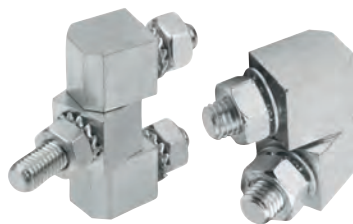
Note:
The hinges are made of weldable profile steel.



Order No.	A	A3	A4	B	D	H
27888-04030040	80	40	40	30	4	3
27888-04040040	80	40	40	40	4	3
27888-06040030	60	30	30	40	6	5
27888-06040060	120	60	60	40	6	5
27888-06050060	120	60	60	50	6	5
27888-06060060	120	60	60	60	6	5
27888-08060080	160	80	80	60	8	6

Block hinges

with fastening nuts



Material:

Steel.

Stainless steel 1.4305.

Stainless steel A4 1.4401.

Version:

Steel electro zinc-plated.

Stainless steel bright.

Sample order:

nIm 27890-0614027

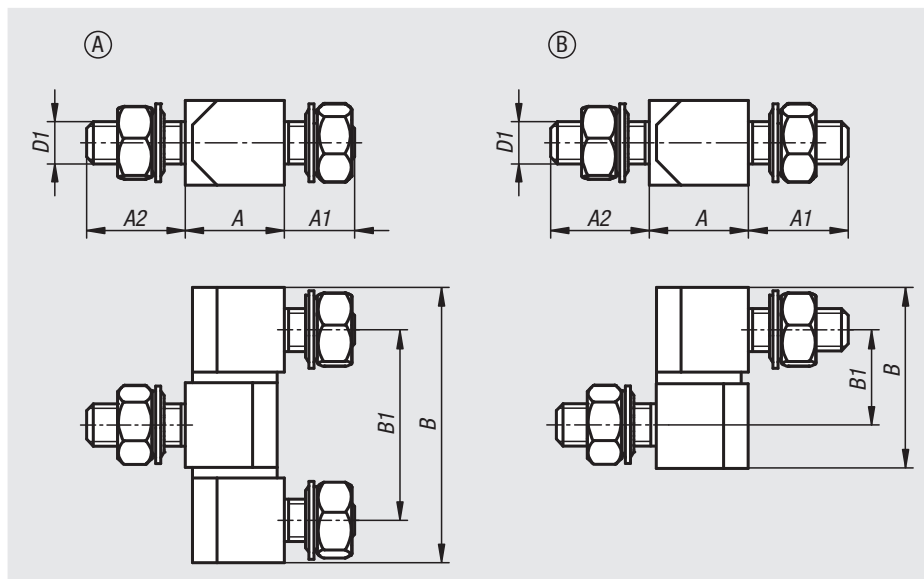
Note:

Block hinges with fastening nuts for overlapping or inset doors.

Mounted with nuts (M6 or M8) from inside. The 3-part versions are not detachable.

The hinge can be used left or right. The opening angle is 180°. Supplied unassembled.

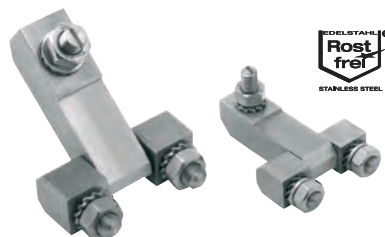
Fastening nuts and washers are supplied.



Order No.	Form	Main material	Steel code	A	A1	A2	B	B1	D1
27890-0614027	A	steel	-	13	10	14	39	27	M6
27890-0820033	A	steel	-	18	14	22	49	33	M8
27890-10614027	A	stainless steel	1.4305	13	10	14	39	27	M6
27890-10820033	A	stainless steel	1.4305	18	14	22	49	33	M8
27890-20614027	A	stainless steel	1.4401	13	10	14	39	27	M6
27890-20820033	A	stainless steel	1.4401	18	14	22	49	33	M8
27890-10610135	B	steel	-	13	10	10	25,3	13,5	M6
27890-10814165	B	steel	-	18	14	14	32,4	16,5	M8
27890-110610135	B	stainless steel	1.4305	13	10	10	25,3	13,5	M6
27890-110814165	B	stainless steel	1.4305	18	14	14	32,4	16,5	M8

Block hinges

with fastening nuts



Material:

Hinges stainless 1.4305.

Fastening material stainless 1.4301.

Version:

Polished.

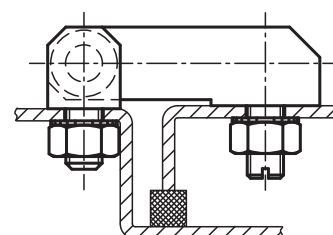
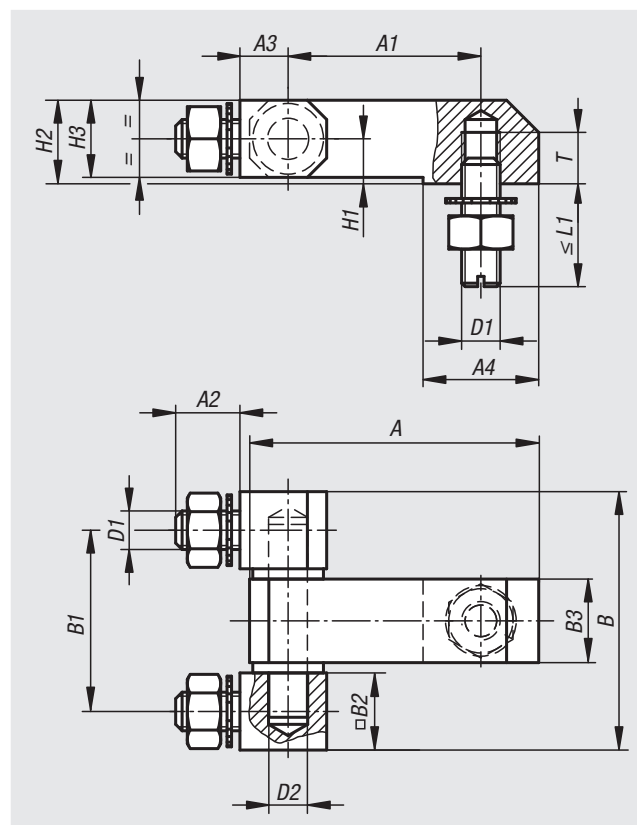
Sample order:

nln 27890-02-10630028

Note:

Block hinge for flush constructions.

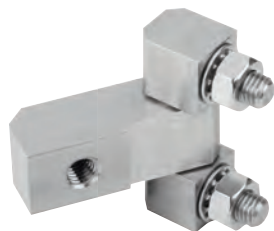
Light and heavy types.



Order No.	A	A1	A2	A3	A4	B	B1	B2	B3	D1	D2	H1	H2	H3	L1	T	Load capacity N
27890-02-10630028	45	30	10	7,5	18	40,2	28,2	12	13	M6	6	7	13	12	16	8	2600
27890-02-10840035	61	40	14	10	26	51	35	16	18	M8	8	10	18	16	20	10	4800

Block hinges

with fastening nuts, long version



Material:

Steel.
Stainless steel 1.4305.
Stainless steel A4 1.4401.

Version:

Steel electro zinc-plated.
Stainless steel bright.

Sample order:

nIm 27891-0630028

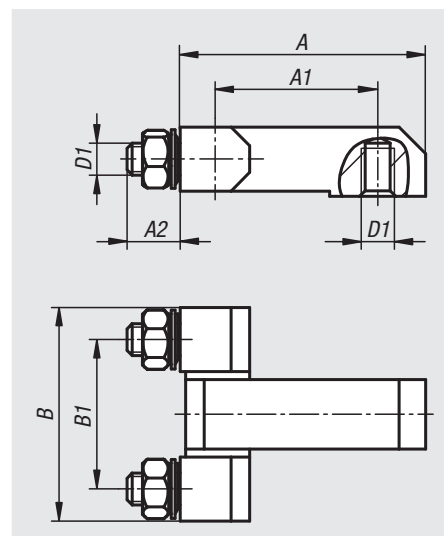
Note:

Block hinges with fastening nuts and extended middle section for inset doors.

Mounted with nuts (M6 or M8) from inside.

The hinge can be mounted left or right. The opening angle is 180°.

Supplied unassembled. Fastening nuts and washers are supplied.



Order No.	Main material	Steel code	A	A1	A2	B	B1	D1
27891-0630028	steel	-	45	30	10	40	28	M6
27891-0829035	steel	-	50	29	14	51	35	M8
27891-10630028	stainless steel	1.4305	45	30	10	40	28	M6
27891-10829035	stainless steel	1.4305	50	29	14	51	35	M8
27891-20630028	stainless steel	1.4401	45	30	10	40	28	M6
27891-20829035	stainless steel	1.4401	50	29	14	51	35	M8

Block hinges

with counterbore, long version



Material:

Die-cast zinc.

Version:

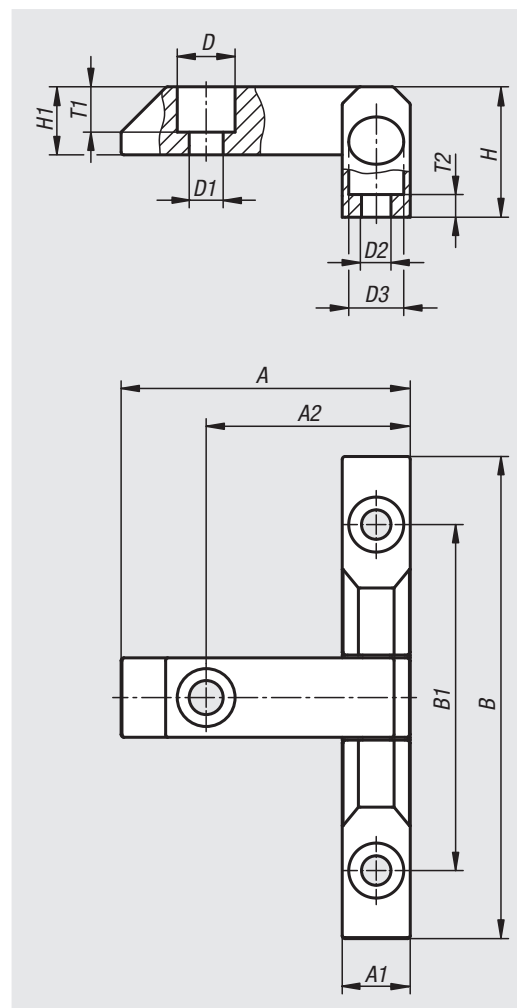
Electro zinc-plated, high-gloss chromed or black powder-coated.

Sample order:

nlm 27892-00630061

Note:

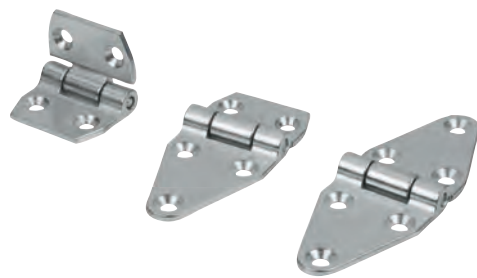
Block hinges for overlapping doors. Can be mounted left or right. Opening angle 180°. The hinges are supplied assembled.



Order No.	Surface finish body	A	A1	A2	B	B1	D	D1	D2	D3	H	H1	T1	T2
27892-00630061	galvanised	51	12	36	85	61	10,2	6	5,2	9,7	23	12	8	4
27892-10630061	high-gloss chromed	51	12	36	85	61	10,2	6	5,2	9,7	23	12	8	4
27892-20630061	powder-coated	51	12	36	85	61	10,2	6	5,2	9,7	23	12	8	4

Hinges

steel, maintenance-free


Material:

Profile steel.

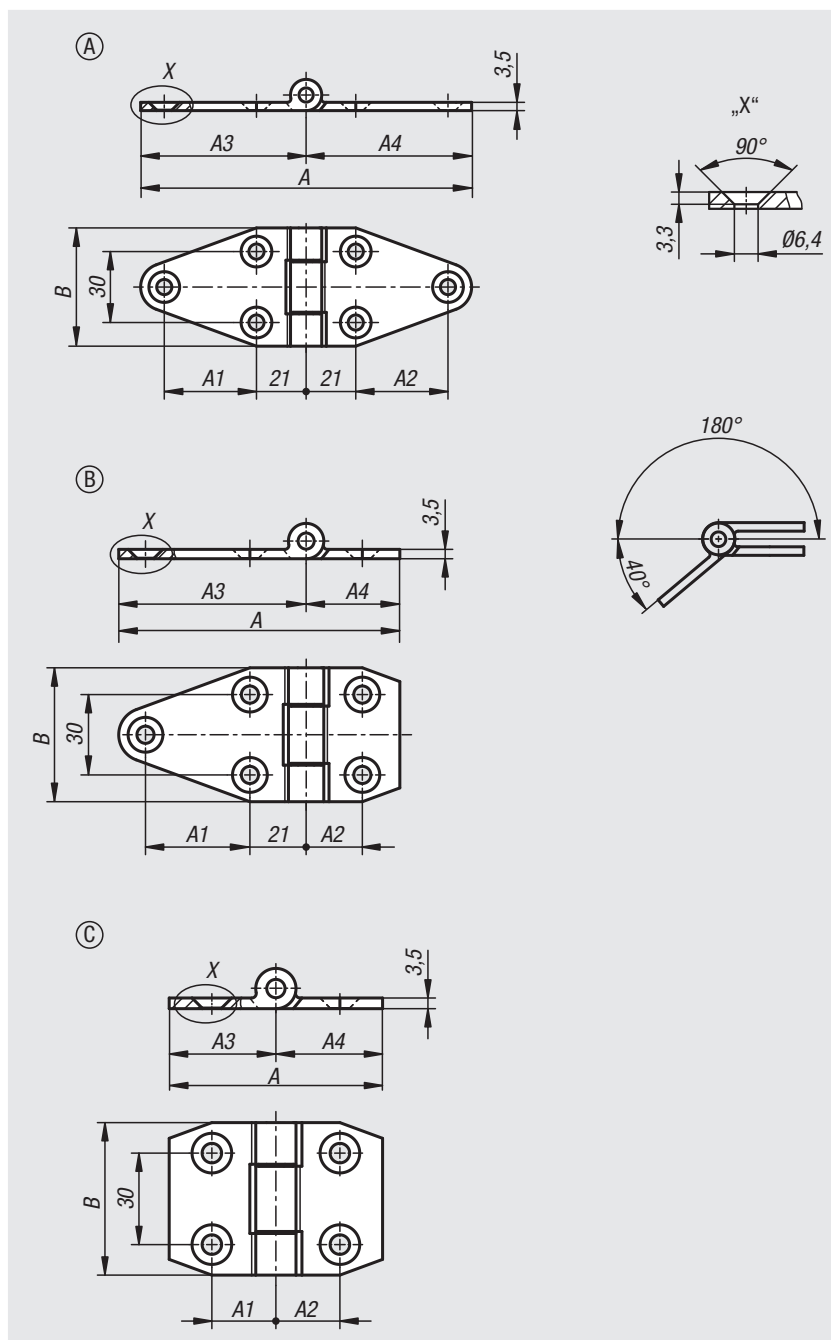
Bush Metaloplast.

Version:

Steel parts electro zinc-plated.

Sample order:

nIm 27898-06707050



Order No.	Form	A	A1	A2	A3	A4	B
27898-06707050	A	140	39	39	70	70	50
27898-06703550	B	105	39	21	70	35	50
27898-06353550	C	70	21	21	35	35	50

Spring hinges

steel, stainless steel or aluminium, 50 mm



Material:

Steel, 1.4301 stainless steel or 5754 aluminium.
Tension spring steel or stainless steel.

Version:

Steel electro zinc-plated
Stainless steel and aluminium, bright.
Tension spring Zn/Al alloy.

Sample order:

nIm 27900-50500

Note:

Butt type hinges.
Opening angle 270°.

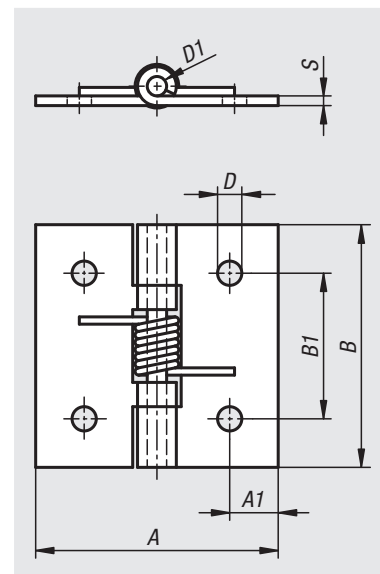
Opening spring torque:

$M(0^\circ) : 1.5 \text{ Nm} / M(90^\circ) : 1.1 \text{ Nm} / M(180^\circ) : 0.65 \text{ Nm}$

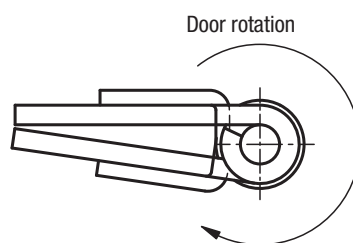
Closing spring torque:

$M(0^\circ) : 0.25 \text{ Nm} / M(90^\circ) : 0.65 \text{ Nm} / M(180^\circ) : 1.1 \text{ Nm}$

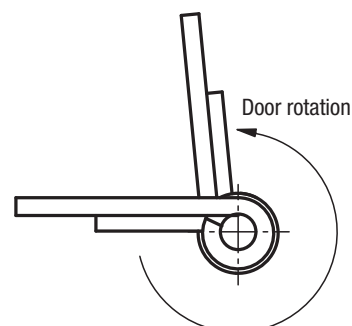
By the aluminium hinges, the tension springs are steel alloyed with Zn/Al.



Hinges with closing spring



Hinges with opening spring



Order No.	Version 1	Main material	A	A1	B	B1	D	D1	S
27900-50500	spring open	steel	50	9	50	30	5	4	2
27900-150500	spring open	stainless steel	50	10	50	30	5	4	2
27900-250500	spring open	aluminium	50	9	50	30	5	4	2
27900-50501	spring closed	steel	50	9	50	30	5	4	2
27900-150501	spring closed	stainless steel	50	10	50	30	5	4	2
27900-250501	spring closed	aluminium	50	9	50	30	5	4	2

Spring hinges

steel or stainless steel, 75 mm


Material:

Steel or 1.4301 stainless steel.
Tension spring stainless steel.

Version:

Bright.

Sample order:

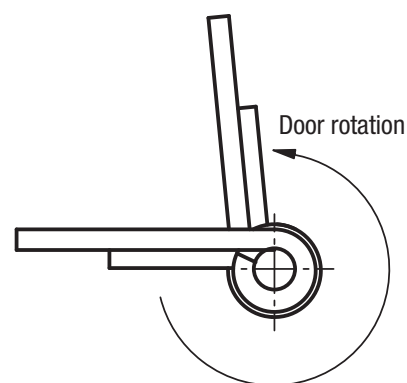
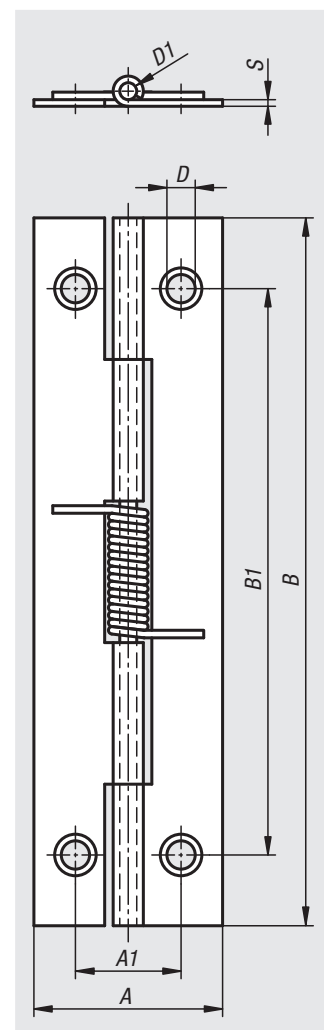
nln 27901-20750

Note:

Butt type hinges.
Opening angle 270°.

Opening spring torque:

M(0°): 0.12 Nm / M(90°): 0.09 Nm / M(180°): 0.06 Nm



Hinges with opening spring

Order No.	Main material	A	A1	B	B1	D	D1	S
27901-20750	steel	20	11,2	75	60	2,8	1,8	0,8
27901-120750	stainless steel	20	11,2	75	60	2,8	1,8	0,8

Spring hinges

steel, stainless steel or aluminium, 120 mm



Material:

Steel, 1.4301 stainless steel or 5754 aluminium.
Tension spring steel or stainless steel.

Version:

Steel bright or electro zinc-plated
Stainless steel and aluminium, bright.
Tension spring Zn/Al alloy.

Sample order:

nln 27902-4012000

Note:

Butt type hinges.
Opening angle 270°.

Opening spring torque:

$M(0^\circ) : 0.85 \text{ Nm} / M(90^\circ) : 0.56 \text{ Nm} / M(180^\circ) : 0.28 \text{ Nm}$

Closing spring torque:

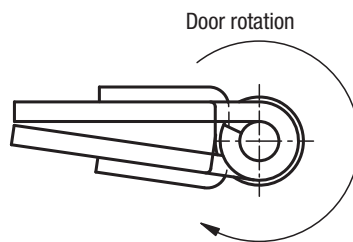
$M(0^\circ) : 0.28 \text{ Nm} / M(90^\circ) : 0.56 \text{ Nm} / M(180^\circ) : 0.85 \text{ Nm}$

By the aluminium hinges, the tension springs are steel alloyed with Zn/Al.

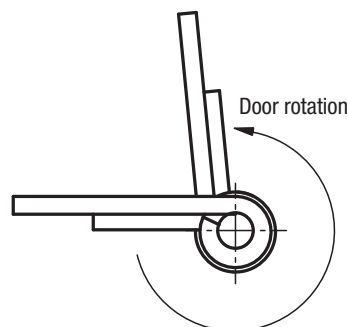
Form A: without holes

Form B: with holes

Hinges with closing spring



Hinges with opening spring



Order No.	Form	Version 1	Main material	Finish	A	A1	B	B1	D	D1	S
27902-4012000	A	spring open	steel	bright	40	-	120	-	-	4	1,5
27902-4012001	B	spring open	steel	galvanised	40	22,7	120	60	4	4	1,5
27902-14012000	A	spring open	stainless steel	bright	40	-	120	-	-	4	1,5
27902-14012001	B	spring open	stainless steel	bright	40	22,7	120	60	4	4	1,5
27902-24012000	A	spring open	aluminium	bright	40	-	120	-	-	4	1,5
27902-24012001	B	spring open	aluminium	bright	40	22,7	120	60	4	4	1,5
27902-4012010	A	spring closed	steel	bright	40	-	120	-	-	4	1,5
27902-4012011	B	spring closed	steel	galvanised	40	22,7	120	60	4	4	1,5
27902-14012010	A	spring closed	stainless steel	bright	40	-	120	-	-	4	1,5
27902-14012011	B	spring closed	stainless steel	bright	40	22,7	120	60	4	4	1,5
27902-24012010	A	spring closed	aluminium	bright	40	-	120	-	-	4	1,5
27902-24012011	B	spring closed	aluminium	bright	40	22,7	120	60	4	4	1,5

Spring hinges

steel or stainless steel, 180 mm



Material:

Steel or 1.4301 stainless steel.
Tension spring stainless steel.

Version:

Steel bright or electro zinc-plated.
Stainless steel bright.

Sample order:

nIm 27903-4018000

Note:

Butt type hinges.
Opening angle 270°.

Spring torque opening:

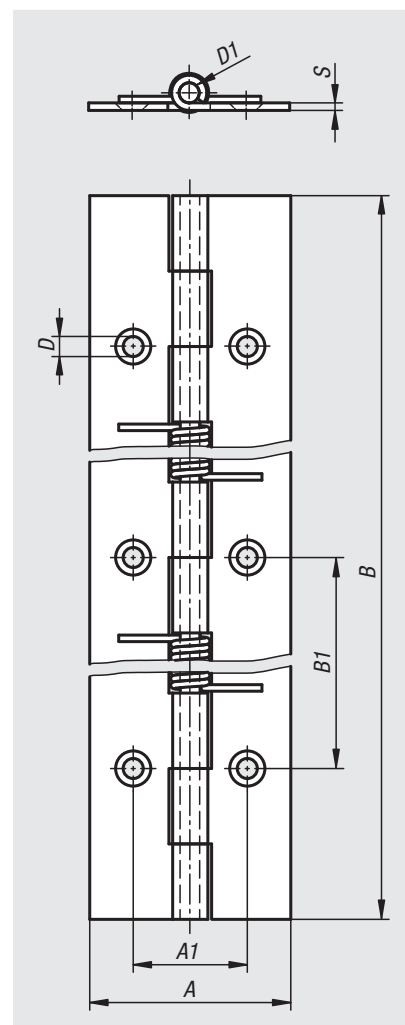
$M(0^\circ)$: 1.7 Nm / $M(90^\circ)$: 1.1 Nm / $M(180^\circ)$: 0.56 Nm

Spring torque closing:

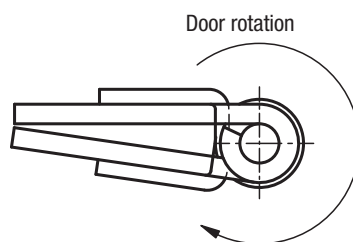
$M(0^\circ)$: 0.56 Nm / $M(90^\circ)$: 1.1 Nm / $M(180^\circ)$: 1.7 Nm

Form A: without holes

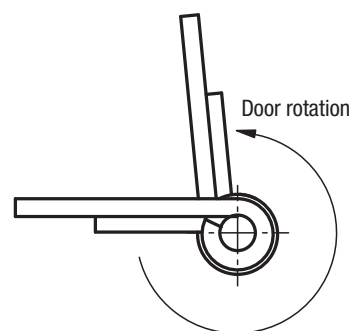
Form B: with holes



Hinges with closing spring



Hinges with opening spring



Order No.	Form	Version 1	Main material	Finish	A	A1	B	B1	D	D1	S
27903-4018000	A	spring open	steel	bright	40	-	180	-	-	4	1,5
27903-4018001	B	spring open	steel	galvanised	40	22,7	180	60	4	4	1,5
27903-14018000	A	spring open	stainless steel	bright	40	-	180	-	-	4	1,5
27903-14018001	B	spring open	stainless steel	bright	40	22,7	180	60	4	4	1,5
27903-4018010	A	spring closed	steel	bright	40	-	180	-	-	4	1,5
27903-4018011	B	spring closed	steel	galvanised	40	22,7	180	60	4	4	1,5
27903-14018010	A	spring closed	stainless steel	bright	40	-	180	-	-	4	1,5
27903-14018011	B	spring closed	stainless steel	bright	40	22,7	180	60	4	4	1,5

Spring hinges

steel or stainless steel, 240 mm



Material:

Steel or 1.4301 stainless steel.
Tension spring stainless steel.

Version:

Steel bright or electro zinc-plated.
Stainless steel bright.

Sample order:

nIm 27904-4024000

Note:

Butt type hinges.
Opening angle 270°.

Spring torque opening:

M(0°): 2.55 Nm / M(90°): 1.68 Nm / M(180°): 0.84 Nm

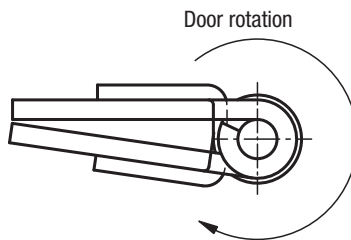
Spring torque closing:

M(0°): 0.84 Nm / M(90°): 1.68 Nm / M(180°): 2.55 Nm

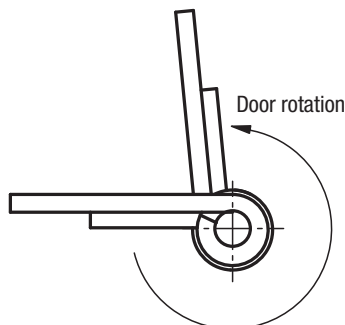
Form A: without holes

Form B: with holes

Hinges with closing spring



Hinges with opening spring



Order No.	Form	Version 1	Main material	Finish	A	A1	B	B1	D	D1	S
27904-4024000	A	spring open	steel	bright	40	-	240	-	-	4	1,5
27904-4024001	B	spring open	steel	galvanised	40	22,7	240	60	4	4	1,5
27904-14024000	A	spring open	stainless steel	bright	40	-	240	-	-	4	1,5
27904-14024001	B	spring open	stainless steel	bright	40	22,7	240	60	4	4	1,5
27904-4024010	A	spring closed	steel	bright	40	-	240	-	-	4	1,5
27904-4024011	B	spring closed	steel	galvanised	40	22,7	240	60	4	4	1,5
27904-14024010	A	spring closed	stainless steel	bright	40	-	240	-	-	4	1,5
27904-14024011	B	spring closed	stainless steel	bright	40	22,7	240	60	4	4	1,5

Spring hinges

aluminium profile tension spring hinges, 0.20 Nm


Material:

Aluminium 6060 T5.
Cover plug PA 6.6.

Version:

Black anodised.
Colourless anodised.

Sample order:

nlm 27905-353001

Note:

These hinges have stainless steel tension springs which enables doors and hatches to open or close automatically. Opening angle 270°.

Spring torque opening:

$M(0^\circ)$: 0.23 Nm / $M(90^\circ)$: 0.15 Nm / $M(180^\circ)$: 0.08 Nm

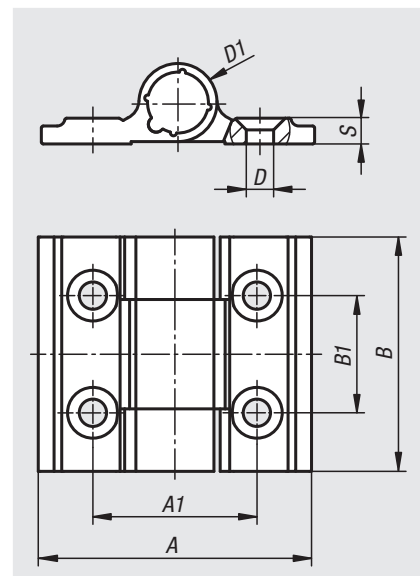
Spring torque closing:

$M(0^\circ)$: 0.08 Nm / $M(90^\circ)$: 0.15 Nm / $M(180^\circ)$: 0.23 Nm

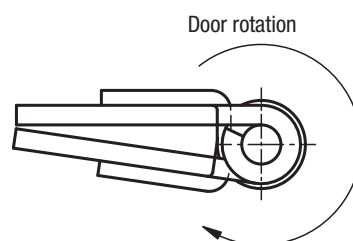
Fastened with DIN 7991 countersunk screws.

Temperature range:

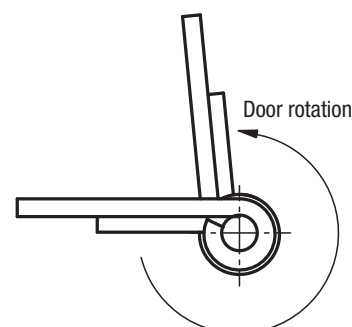
From -20°C to +80°C



Hinges with closing spring



Hinges with opening spring



Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
27905-353001	spring open	black	35	21	30	15	3,5	10	3,3
27905-35300	spring open	colourless	35	21	30	15	3,5	10	3,5
27905-353011	spring closed	black	35	21	30	15	3,5	10	3,3
27905-35301	spring closed	colourless	35	21	30	15	3,5	10	3,5

Spring hinges

aluminium profile tension spring hinges, 0.35 Nm



Material:

Aluminium 6060 T5.

End caps PA 6.6.

Washers POM.

Version:

Black anodised.

Colourless anodised.

Sample order:

nIm 27906-556701

Note:

The hinges are equipped with an integrated steel tension spring. This allows automatic opening and closing of doors and hatches. Opening angle 180°.

Opening spring torque:

$M(0^\circ) : 0.35 \text{ Nm} / M(90^\circ) : 0.24 \text{ Nm} / M(180^\circ) : 0.12 \text{ Nm}$

Closing spring torque:

$M(0^\circ) : 0.12 \text{ Nm} / M(90^\circ) : 0.24 \text{ Nm} / M(180^\circ) : 0.35 \text{ Nm}$

These hinges are designed for more than 30,000 switching cycles.

Fastening with socket head screws as described in DIN 912/ DIN EN ISO 4762.

The loading values given for the hinges are non-binding reference values, which do not consider safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

These load values were determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

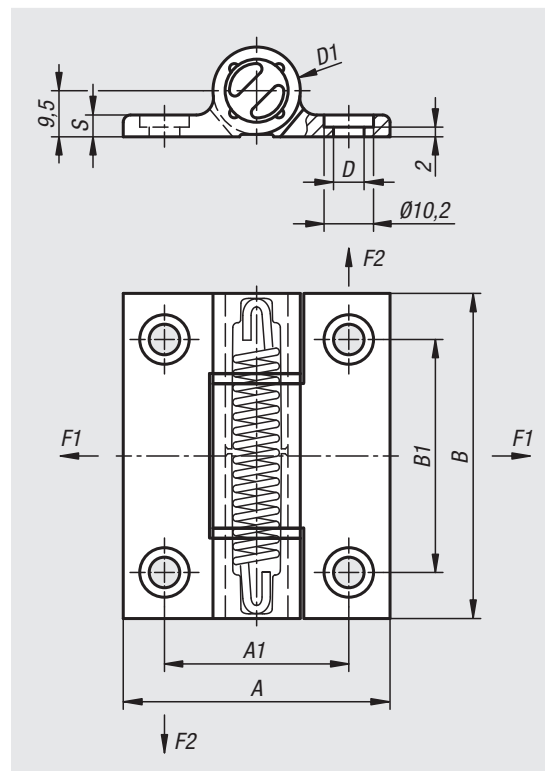
Wide differences in the materials on which the hinges are installed, the type of mounting, weather conditions and wear, can influence the determined values.

Temperature range:

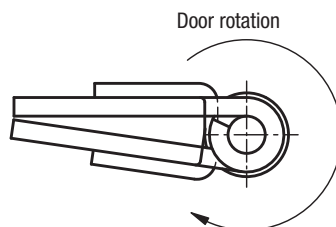
From -20°C to +80°C

Accessories:

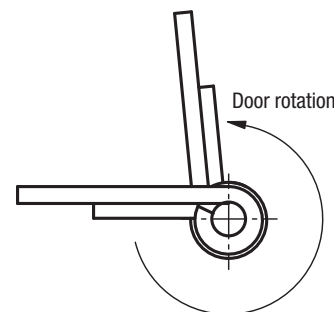
Socket head screws with hexagon socket DIN 912/EN ISO 4762.



Hinges with closing spring



Hinges with opening spring



Order No.	Version 1	Main colour	Surface finish body	A	A1	B	B1	D	D1	S	F1 max. kN	F2 max. kN
27906-556701	spring open	black	anodized	55	38	67	48	6,3	18	4,5	2,65	2,25
27906-55670	spring open	colourless	anodized	55	38	67	48	6,3	18	4,5	2,65	2,25
27906-556711	spring closed	black	anodized	55	38	67	48	6,3	18	4,5	2,65	2,25
27906-55671	spring closed	colourless	anodized	55	38	67	48	6,3	18	4,5	2,65	2,25

Spring hinges

aluminium profile, 0.50 Nm



Material:

Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:

Black anodised.
Colourless anodised.

Sample order:

nIm 27906-01-35600

Note:

These hinges have stainless steel tension springs which enables doors and hatches to open or close automatically.
Opening angle 270°.

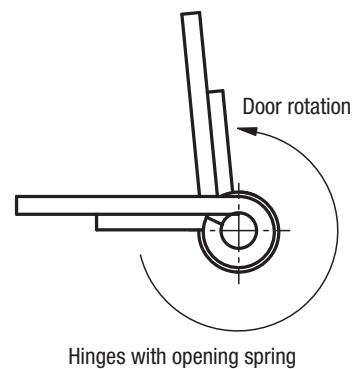
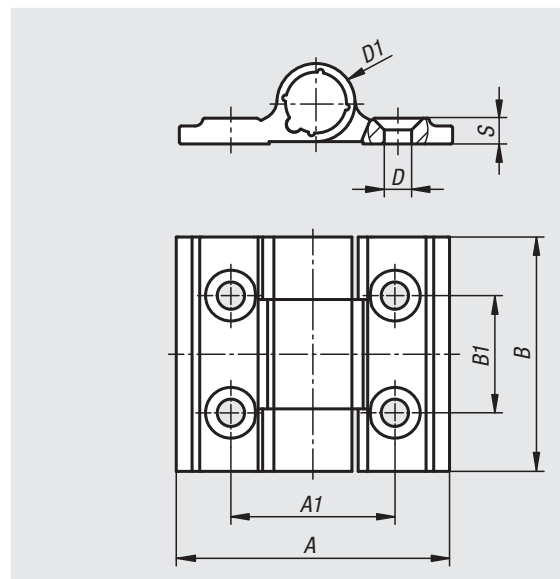
Spring torque opening:

M(0°): 0.48 Nm / M(90°): 0.3 Nm / M(180°): 0.16 Nm

Fastened with DIN 7991 countersunk screws.

Temperature range:

From -20°C to +80°C



Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
27906-01-354001	spring open	black	35	21	60	30	3,5	10	3,3
27906-01-35400	spring open	colourless	35	21	60	30	3,5	10	3,3

Spring hinges

aluminium profile tension spring hinges, 0.7 Nm



Material:

Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:

Black anodised.
Colourless anodised.

Sample order:

nIm 27907-556701

Note:

The hinges are equipped with an integrated steel tension spring.
This allows automatic opening and closing of doors and hatches.
Opening angle 180°.

Opening spring torque:

$M(0^\circ) : 0.7 \text{ Nm} / M(90^\circ) : 0.45 \text{ Nm} / M(180^\circ) : 0.23 \text{ Nm}$

Closing spring torque:

$M(0^\circ) : 0.23 \text{ Nm} / M(90^\circ) : 0.45 \text{ Nm} / M(180^\circ) : 0.7 \text{ Nm}$

These hinges are designed for more than 30,000 switching cycles.

Fastening with socket head screws as described in DIN 912/ DIN EN ISO 4762.

The loading values given for the hinges are non-binding reference values, which do not consider safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

These load values were determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

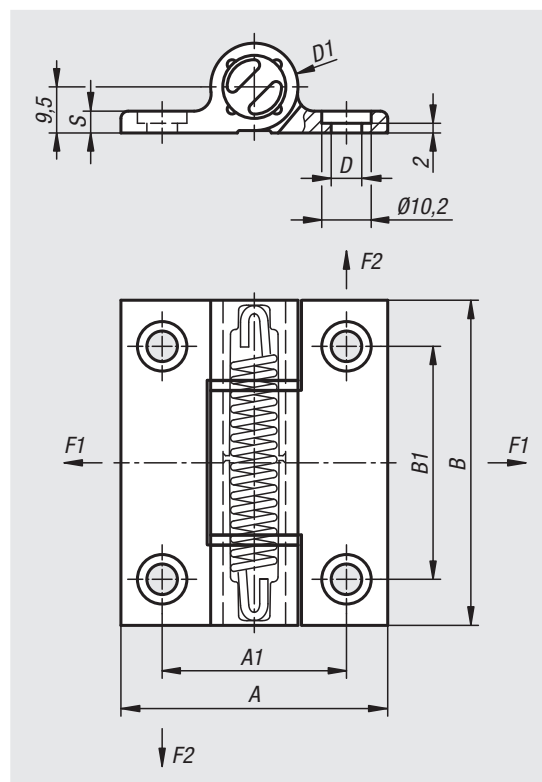
Wide differences in the materials on which the hinges are installed, the type of mounting, weather conditions and wear, can influence the determined values.

Temperature range:

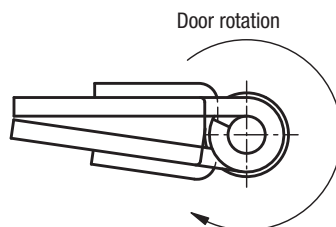
From -20°C to +80°C

Accessories:

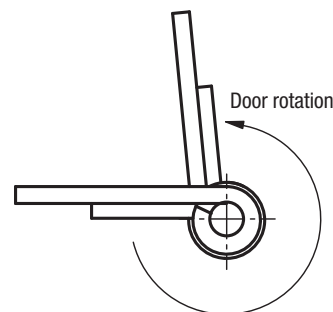
Socket head screws with hexagon socket DIN 912/EN ISO 4762.



Hinges with closing spring



Hinges with opening spring



Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S	F1 max. kN	F2 max. kN
27907-556701	spring open	black	55	38	67	48	6,3	18	4,5	2,65	2,25
27907-55670	spring open	colourless	55	38	67	48	6,3	18	4,5	2,65	2,25
27907-556711	spring closed	black	55	38	67	48	6,3	18	4,5	2,65	2,25
27907-55671	spring closed	colourless	55	38	67	48	6,3	18	4,5	2,65	2,25

Spring hinges

aluminium profile, 0.7 Nm, long version


Material:

Aluminium 6060 T5.
Cover plug PA 6.6.

Version:

Black anodised.
Colourless anodised.

Sample order:

nln 27907-01-359001

Note:

These hinges have stainless steel tension springs which enables doors and hatches to open or close automatically.
Opening angle 270°.

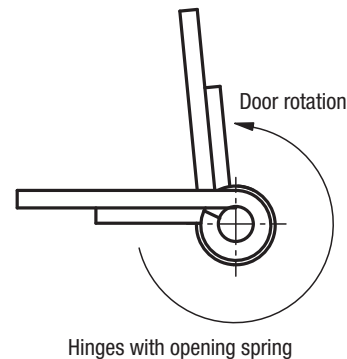
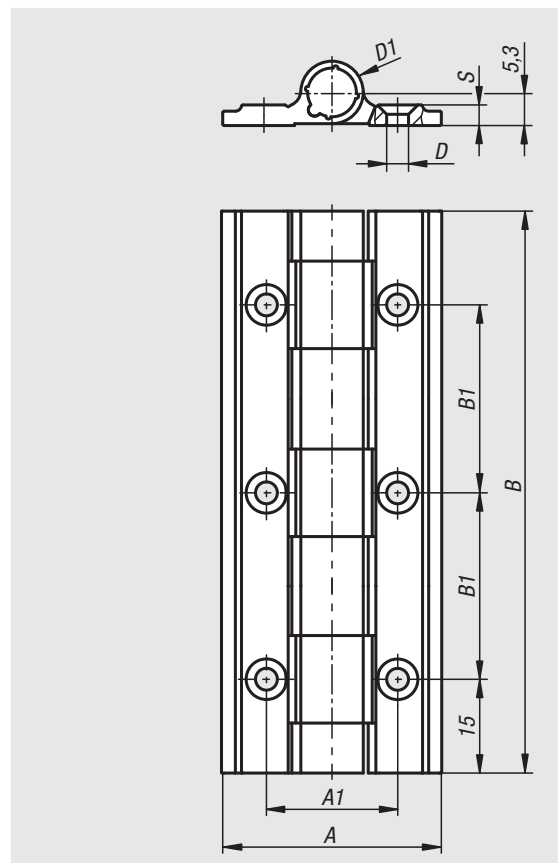
Spring torque opening:

M(0°): 0.7 Nm / M(90°): 0.5 Nm / M(180°): 0.3 Nm

Fastened with DIN 7991 countersunk screws.

Temperature range:

From -20°C to +80°C



Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
27907-01-35900	spring open	colourless	35	21	90	30	3,5	10	3,3
27907-01-359001	spring open	black	35	21	90	30	3,5	10	3,3

Spring hinges

aluminium profile, 0.9 Nm, long version



Material:

Aluminium 6060 T5.
Cover plug PA 6.6.

Version:

Black anodised.
Colourless anodised.

Sample order:

nlm 27907-02-3512001

Note:

These hinges have stainless steel tension springs which enables doors and hatches to open or close automatically.
Opening angle 270°.

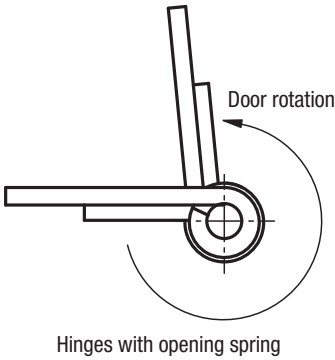
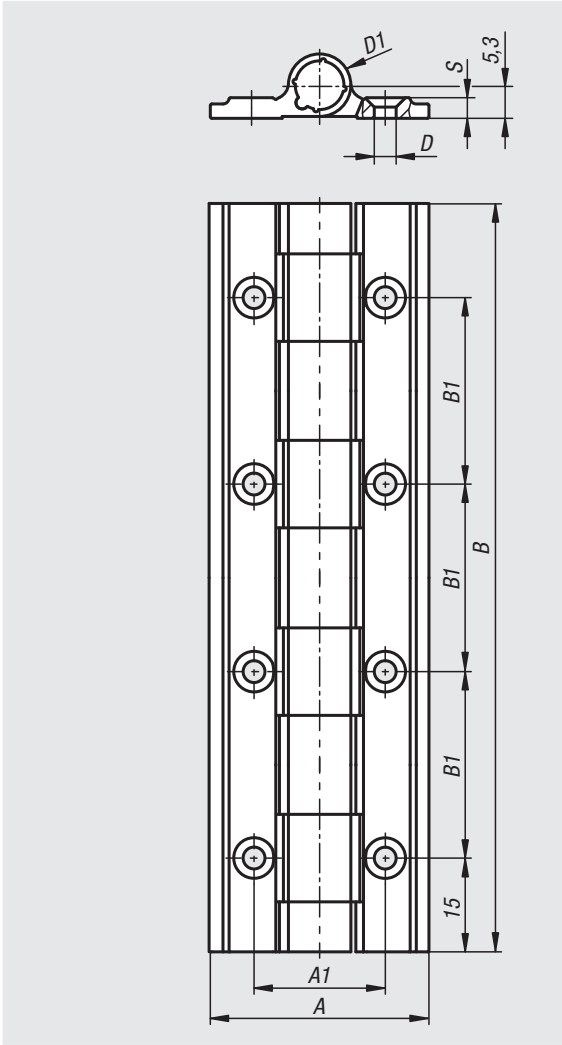
Spring torque opening:

M(0°): 0.92 Nm / M(90°): 0.7 Nm / M(180°): 0.44 Nm

Fastened with DIN 7991 countersunk screws.

Temperature range:

From -20°C to +80°C



Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
27907-02-3512001	spring open	black	35	21	120	30	3,5	10	3,3
27907-02-351200	spring open	colourless	35	21	120	30	3,5	10	3,3

Spring hinges

aluminium profile tension spring hinges, 1.3 Nm



Material:

Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:

Black anodised.
Colourless anodised.

Sample order:

nln 27908-556701

Note:

The hinges are equipped with an integrated steel tension spring.
This allows automatic opening and closing of doors and hatches.
Opening angle 180°.

Opening spring torque:

$M(0^\circ) : 1.3 \text{ Nm} / M(90^\circ) : 1.1 \text{ Nm} / M(180^\circ) : 0.9 \text{ Nm}$

Closing spring torque:

$M(0^\circ) : 0.5 \text{ Nm} / M(90^\circ) : 0.7 \text{ Nm} / M(180^\circ) : 1 \text{ Nm}$

These hinges are designed for more than 10,000 switching cycles.

Fastening with socket head screws as described in DIN 912/ DIN EN ISO 4762.

The loading values given for the hinges are non-binding reference values, which do not consider safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

These load values were determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

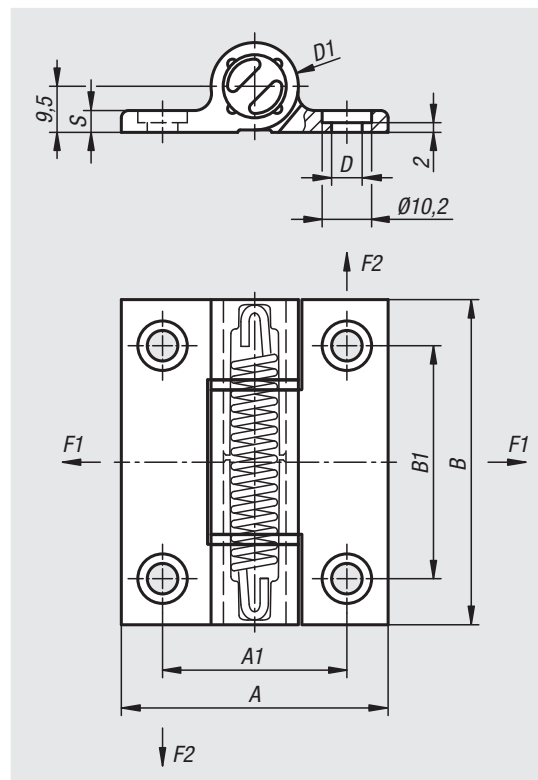
Wide differences in the materials on which the hinges are installed, the type of mounting, weather conditions and wear, can influence the determined values.

Temperature range:

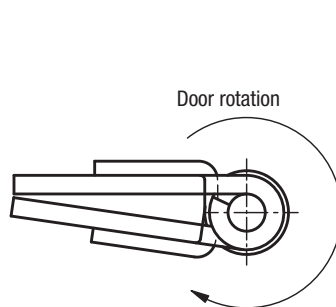
From -20°C to +80°C

Accessories:

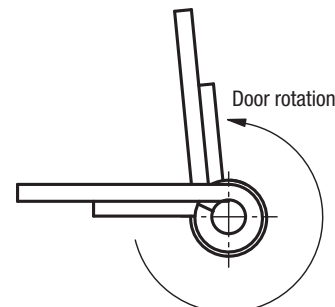
Socket head screws with hexagon socket DIN 912/EN ISO 4762.



Hinges with closing spring



Hinges with opening spring



Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S	F1 max. kN	F2 max. kN
27908-556701	spring open	black	55	38	67	48	6,3	18	4,5	2,65	2,25
27908-55670	spring open	colourless	55	38	67	48	6,3	18	4,5	2,65	2,25
27908-556711	spring closed	black	55	38	67	48	6,3	18	4,5	2,65	2,25
27908-55671	spring closed	colourless	55	38	67	48	6,3	18	4,5	2,65	2,25

Spring hinges

aluminium profile tension spring hinges, 3.8 Nm



Material:

Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:

Black anodised.
Colourless anodised.

Sample order:

nIm 27909-8210001

Note:

These hinges have steel tension springs which enables doors and hatches to open or close automatically.
Opening angle 270°.

Spring torque opening:

M(0°): 3.80 Nm / M(90°): 3.10 Nm / M(180°): 2.40 Nm

Spring torque closing:

M(0°): 2.20 Nm / M(90°): 2.90 Nm / M(180°): 3.50 Nm

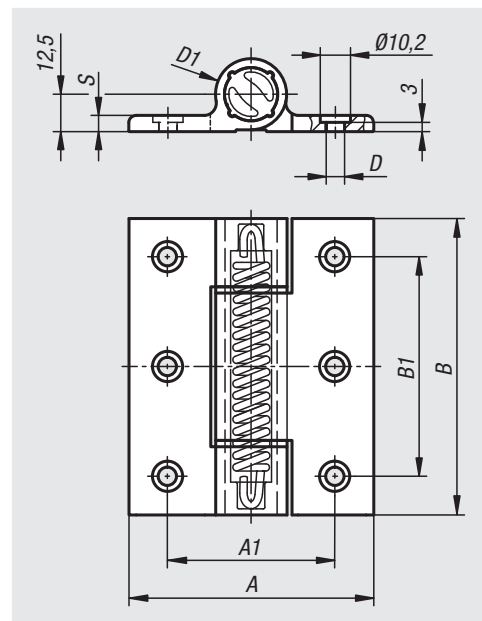
Fastened using DIN 912/EN ISO 4762 socket head screws.

Temperature range:

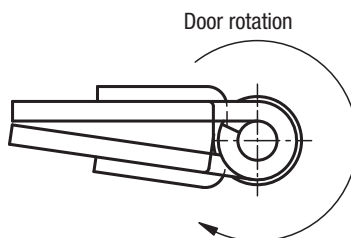
From -20°C to +80°C

Accessories:

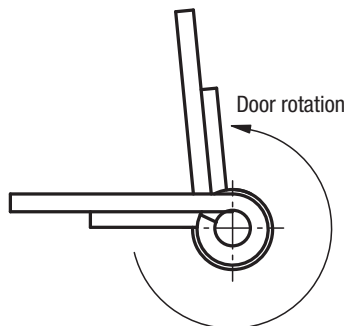
Socket head screws with hexagon socket DIN 912/EN ISO 4762.



Hinges with closing spring



Hinges with opening spring



Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
27909-8210001	spring open	black	82,5	56,5	100	74	6,2	24	5,5
27909-821000	spring open	colourless	82,5	56,5	100	74	6,2	24	5,5
27909-8210011	spring closed	black	82,5	56,5	100	74	6,2	24	5,5
27909-821001	spring closed	colourless	82,5	56,5	100	74	6,2	24	5,5

Security hinge switches



Material:

Housing, die-cast zinc.
Housing cover, plastic, self-extinguishing.
Hinge bolts, die-cast zinc/steel C45.
Contacts, silver-nickel alloy 10.

Sample order:

nlm 27950-781161111

Note:

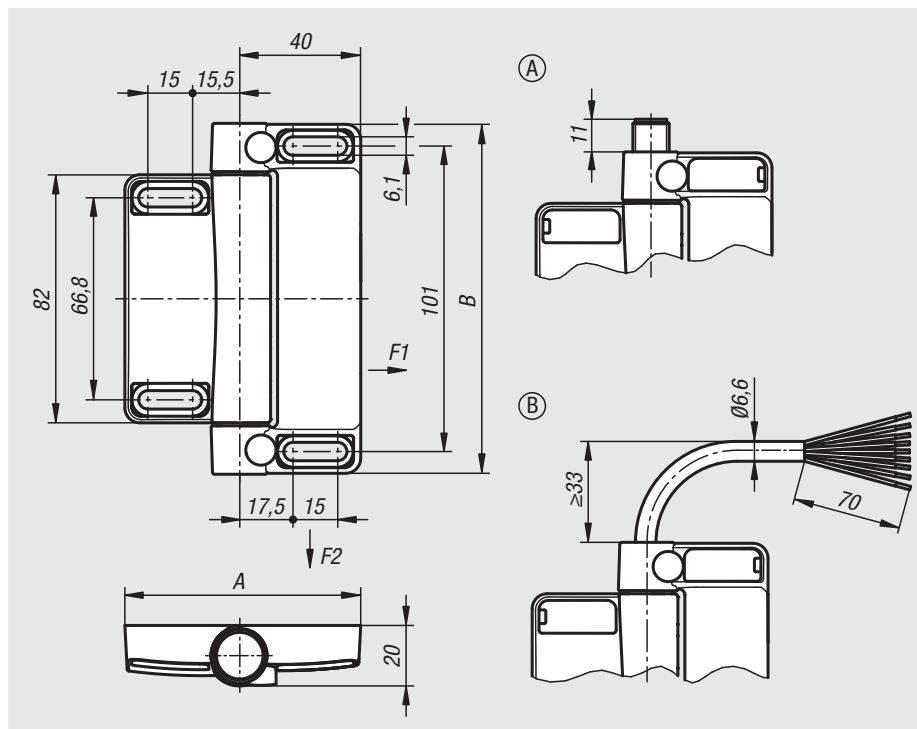
The security hinge switches are used for monitoring the position of swing-hinged safety doors, protective hatches and hoods. The protective device is monitored directly in the hinge. By the universally pre-set versions, the switching angle is freely adjustable over the entire working range. A mounting aid ensures the quick alignment to doors and posts.

The additional hinges have the same appearance and dimensions as the security hinge switches.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Application:

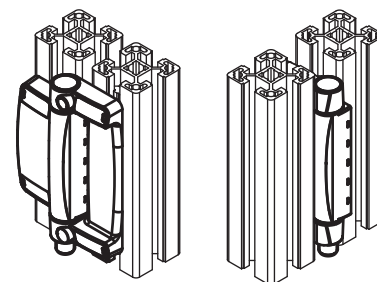
- Special machine construction
- Electronics industry
- Packaging machines
- Enclosures/profile systems
- Machine tools
- Measuring, processing, testing and laboratory technology

Assembly:

4x DIN 7984 or DIN EN ISO 4762 M6 socket head screws,
Tightening torque 4.3 Nm
General assembly instructions can be found in the accompanying operating instructions.

Advantages:

- Suitable for protection on swivel hatches
- Minimum assembly required, especially on conventional aluminium profiles
- Optimum integration into the surrounding structure
- Additional protection against tampering
- Hardly any mechanical wear



Order No.	Item	Form	A	B	Default setting	Contacts	Connection type	Connection position	F1 max. kN	F2 max. kN
27950-781161111	Security Hinge Switch	A	78	116	external mounting	1C / 20	connector	bottom	5	5
27950-781161112	Security Hinge Switch	A	78	116	external mounting	1C / 20	connector	top	5	5
27950-781162111	Security Hinge Switch	A	78	116	universal	1C / 20	connector	bottom	5	5
27950-781162112	Security Hinge Switch	A	78	116	universal	1C / 20	connector	top	5	5
27950-781161121	Security Hinge Switch	B	78	116	external mounting	1C / 20	cable	bottom	5	5
27950-781161122	Security Hinge Switch	B	78	116	external mounting	1C / 20	cable	top	5	5
27950-781162121	Security Hinge Switch	B	78	116	universal	1C / 20	cable	bottom	5	5
27950-781162122	Security Hinge Switch	B	78	116	universal	1C / 20	cable	top	5	5
27950-78116	Additional Hinge	-	78	116	-	-	-	-	5	5

Security hinge switches

long version



Material:

Housing, die-cast zinc.
Housing cover, plastic, self-extinguishing.
Hinge bolts, die-cast zinc/steel C45.
Contacts, silver-nickel alloy 10.

Sample order:

nlm 27951-981161111

Note:

The security hinge switches are used for monitoring the position of swing-hinged safety doors, protective hatches and hoods. The protective device is monitored directly in the hinge.

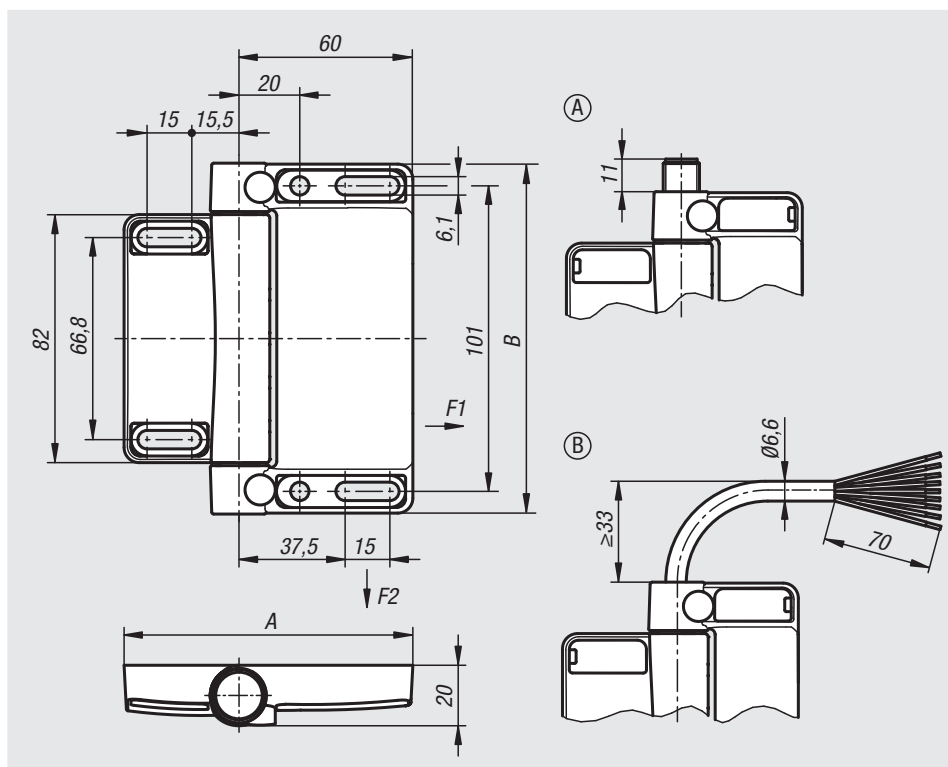
By the universally pre-set versions, the switching angle is freely adjustable over the entire working range. A mounting aid ensures the quick alignment to doors and posts.

The additional hinges have the same appearance and dimensions as the security hinge switches.

The loading values given for the hinges are non-binding reference values without consideration of safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

The load values have been determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Different materials onto which the hinges are installed and the type of mounting, weather conditions and wear can influence the determined values.



Application:

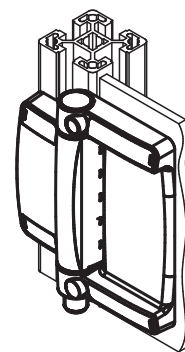
- Special machine construction
- Electronics industry
- Packaging machines
- Enclosures/profile systems
- Machine tools
- Measuring, processing, testing and laboratory technology

Assembly:

4x DIN 7984 or DIN EN ISO 4762 M6 socket head screws,
Tightening torque 4.3 Nm
General assembly instructions can be found in the accompanying operating instructions.

Advantages:

- Suitable for protection on swivel hatches
- Minimum assembly required, especially on conventional aluminium profiles
- Optimum integration into the surrounding structure
- Additional protection against tampering
- Hardly any mechanical wear



Order No.	Item	Form	A	B	Default setting	Contacts	Connection type	Connection position	F1 max. kN	F2 max. kN
27951-981161111	Security Hinge Switch	A	98	116	external mounting	1C / 20	connector	bottom	5	5
27951-981161112	Security Hinge Switch	A	98	116	external mounting	1C / 20	connector	top	5	5
27951-981162111	Security Hinge Switch	A	98	116	universal	1C / 20	connector	bottom	5	5
27951-981162112	Security Hinge Switch	A	98	116	universal	1C / 20	connector	top	5	5
27951-981161121	Security Hinge Switch	B	98	116	external mounting	1C / 20	cable	bottom	5	5
27951-981161122	Security Hinge Switch	B	98	116	external mounting	1C / 20	cable	top	5	5
27951-981162121	Security Hinge Switch	B	98	116	universal	1C / 20	cable	bottom	5	5
27951-981162122	Security Hinge Switch	B	98	116	universal	1C / 20	cable	top	5	5
27951-98116	Additional Hinge	-	98	116	-	-	-	-	5	5

Notes

