bwz® Schwingungs-Technik

levelling elements in steel
type V PH

levelling elements in steel
version V PH

A combination of steel plate base and levelling screw in version PH - pendulum action with cap nut for angle compensation.
Steel plate base and cap nut, in which the levelling thread is placed, are tightly connected to each other with a counter screw.

electro-plating of the steel plate bases: zinc-galvanized

stainless steel screws and stainless steel plate bases on request

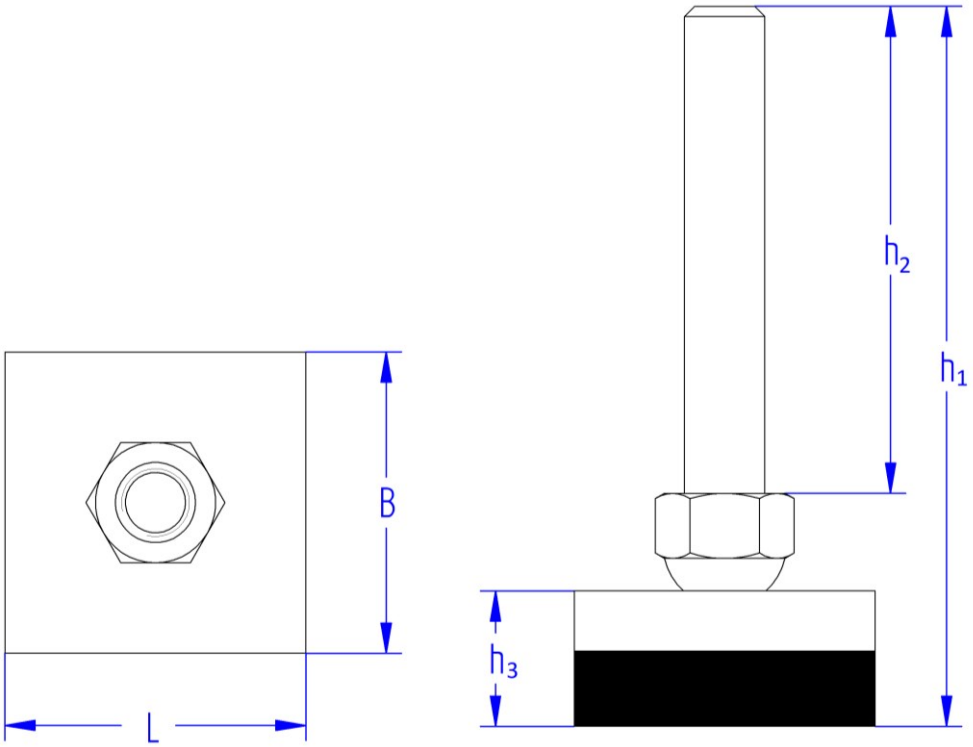
levelling screws are supplied with the following accessories

2 x nut DIN 934 / ISO 4032
1 x washer DIN 125 / ISO 7089
1 x washer DIN 9021 / ISO 7093
from thread size M24 upwards
2 x nut DIN 934 / ISO 4032
2 x washer DIN 125 / ISO 7089

length specification h_2 of the levelling screw relates to the net thread length

assembly of the levelling screws with the nuts and washers, individual packaging of levelling elements in quick-lock mechanism bags and customized article labelling available at extra charge

schematic illustration version V PH in steel



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levelling elements in steel type V PH with elastomer NBR 5514

applications: passive isolation e.g. for metrology equipment, scales, dosage units and optical devices
elastomer surface smooth, without tread pattern
sizes 5V and 6V in this shore hardness on request

type		L / B	h_1	h_2	h_3	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
19V PH NBR5514	7133 0001	190x190	209	150	34	M20	30	55	1500

levelling elements in steel type V PH with elastomer NBR 5518

applications: passive isolation e.g. for metrology equipment, scales, dosage units and optical devices
elastomer surface smooth, without tread pattern - higher insulation effect as compared to type with NBR 5514
sizes 5V and 6V in this shore hardness on request

type		L / B	h_1	h_2	h_3	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
19V PH NBR5518	7133 0002	190x190	213	150	38	M20	30	55	1500

levelling elements in steel type V PH with elastomer NBR 7516

applications: damping / insulation e.g. for highly dynamic machinery, presses, shears, punches, compressors and pumps
elastomer surface with tread pattern

type		L / B	h_1	h_2	h_3	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
5V PH NBR7516	7111 0003	50x50	145	100	24	M16	24	75	200
6V PH NBR7516	7121 0003	60x60	145	100	24	M16	24	75	380
19V PH NBR7516	7133 0003	190x190	211	150	36	M20	30	75	3800

levelling elements in steel type V PH with elastomer NBR 7525

applications: damping / insulation e.g. for highly dynamic machinery, presses, shears, punches, compressors and pumps
elastomer surface with tread pattern - higher insulation / damping effect as compared to type with NBR 7516

type		L / B	h_1	h_2	h_3	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
5V PH NBR7525	7111 0004	50x50	154	100	33	M16	24	75	200
6V PH NBR7525	7121 0004	60x60	154	100	33	M16	24	75	380
19V PH NBR7525	7133 0004	190x190	220	150	45	M20	30	75	3800

levelling elements in steel type V PH with elastomer NBR 8516

applications: damping of e.g. general (CNC) machine tools, textile machines, graphic machines
and machines with horizontal thrust
elastomer surface with tread pattern

type									
		L / B	h_1	h_2	h_3	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
5V PH NBR8516	7111 0005	50x50	145	100	24	M16	24	90	240
6V PH NBR8516	7121 0005	60x60	145	100	24	M16	24	90	470
19V PH NBR8516	7133 0005	190x190	211	150	36	M20	30	90	4500

levelling elements in steel type V PH with elastomer NBR 8525

applications: damping of e.g. general (CNC) machine tools, textile machines, graphic machines
and machines with horizontal thrust
elastomer surface with tread pattern - higher damping effect as compared to type with NBR 8516

type									
		L / B	h_1	h_2	h_3	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
5V PH NBR8525	7111 0006	50x50	154	100	33	M16	24	90	240
6V PH NBR8525	7121 0006	60x60	154	100	33	M16	24	90	470
19V PH NBR8525	7133 0006	190x190	220	150	45	M20	30	90	4500

levelling elements in steel type V PH with elastomer NBR 9014

applications: damping of e.g. machining centres, transfer units, (CNC) machine tools, circular- and flat-grinding machines,
long-bedded machines with low intrinsic rigidity, drilling and milling devices
elastomer surface smooth, without tread pattern

type									
		L / B	h_1	h_2	h_3	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
5V PH NBR9014	7111 0007	50x50	143	100	22	M16	24	90	240
6V PH NBR9014	7121 0007	60x60	143	100	22	M16	24	90	470
19V PH NBR9014	7133 0007	190x190	209	150	34	M20	30	90	4500

screw options

thread	
description	net thread length mm
M8	on request
M10	100, 150, 200, 250
M12	100, 150, 200, 250
M14	on request
M16	100, 150, 200, 250
M18	on request
M20	100, 150, 200, 250
M24	100, 150, 200, 250
M30	100, 150, 200, 250

length specifications of the levelling screws relate to the net thread length h_2 - further net thread lengths on request

Special thread lengths, alternative electro-plating with nickel or chrome, threads with special fine pitch, stainless steel levelling screws or special materials on request.

Custom solutions and modifications as per customer's request are possible any time, owing to our high internal manufacturing depth (CNC and conventional).

data on materials and tolerances

steel plates
- according to DIN EN ISO 8062-3 DCTG 10 -/- manufacturing tolerance: according to ISO 2768-mk
- materials: S235JR+C / EN10277/78 (ST37K DIN1652/174)

elastomers
- shore-hardness A measurement: according to DIN 53505 or rather DIN ISO 7619-1
- tolerances for dimensions with tool-form based elastomer parts according to DIN ISO 3302-1, class M3
- materials: NBR 55° / 75° / 90° ±5 shore A, dimensional tolerance ±1 mm

threads / levelling screws
- according to DIN 976 -/- manufacturing tolerance: according to ISO 2768-mk
- materials: steel blank 4.8 - steel zinc-coated 4.8 - stainless steel A2

manufacturing components from hexagonal bar material
- according to EN 10277/10278 -/- manufacturing tolerance: according to ISO 2768-mk
- materials: steel blank 11SMn30+C -/- stainless steel 1.4305

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