

levelling elements in cast iron  
type V PE



## levelling elements in cast iron version V PE

A combination of base in cast iron and levelling screw in version V PE ( pressure fitting with lateral locking screws ) - pendulum action for angle compensation. The lateral locking screws in the pressure fitting keep the pivot bearing at the bottom of the levelling screw in place, in order to prevent base in cast iron and levelling screw from falling apart. Top choice when lifting and for re-location of machines.

standard colour of the base in cast iron: RAL 9006 white-aluminium  
other colour tones according to RAL on request

optional: special electro-plating for the bases in cast iron and levelling screws in nickel or chrome, as well as stainless steel screws

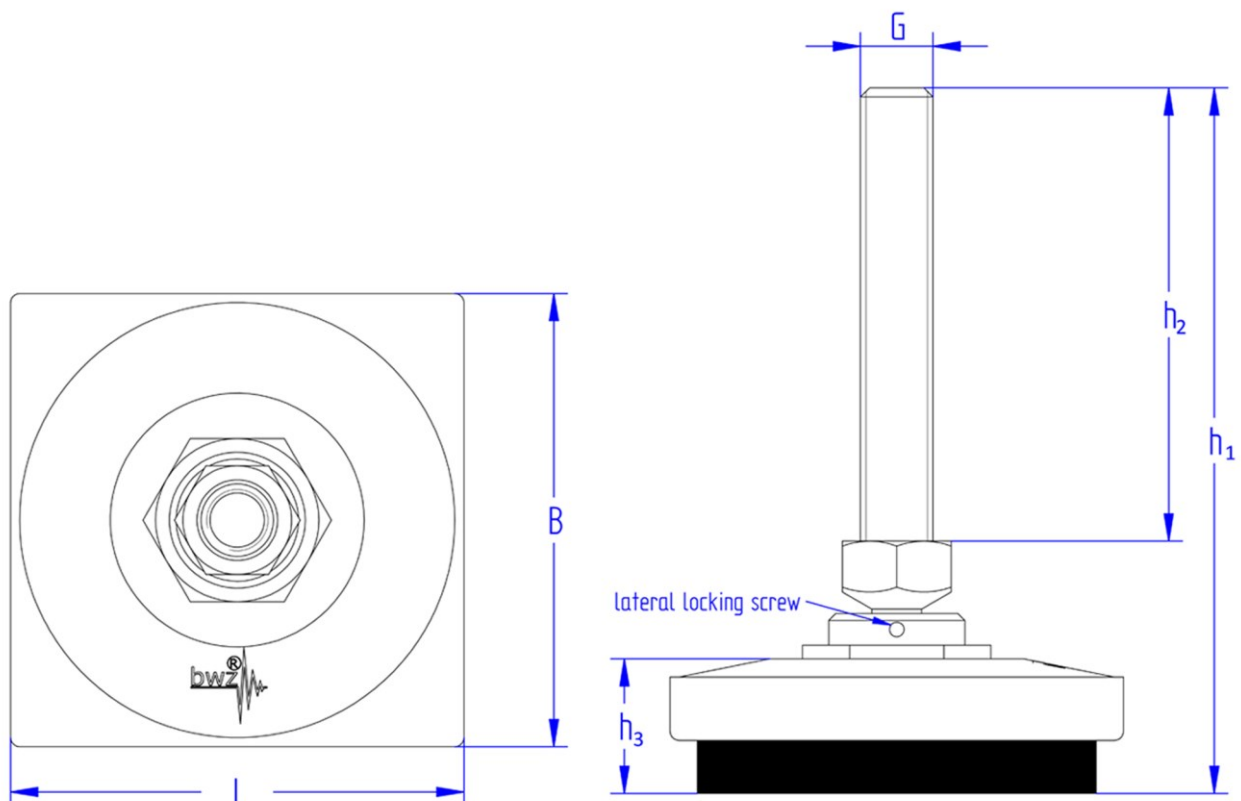
levelling screws are supplied with the following accessories

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 PE



### levelling elements in cast iron type V PE with elastomer NBR 5514

applications: passive isolation e.g. for metrology equipment, scales, dosage units and optical devices  
 elastomer surface smooth, without tread pattern

type		L / B	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
7V PE NBR5514	7202 0001	85x85	148	100	23	M12	24	55	180
10V PE NBR5514	7212 0001	100x100	153	100	28	M16	24	55	300
12V PE NBR5514	7221 0001	126x126	157	100	31	M16	24	55	400
15V PE NBR5514	7232 0001	150x150	218	150	35	M20	30	55	700
17V PE NBR5514	7242 0001	178x178	221	150	37	M20	30	55	1000

### levelling elements in cast iron type V PE with elastomer NBR 5518

applications: passive isolation e.g. for metrology equipment, scales, dosage units and optical devices  
 elastomer surface with tread pattern - higher insulation effect as compared to type with NBR 5514

type		L / B	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
7V PE NBR5518	7202 0002	85x85	152	100	27	M12	24	55	180
10V PE NBR5518	7212 0002	100x100	157	100	32	M16	24	55	300
12V PE NBR5518	7221 0002	126x126	161	100	35	M16	24	55	400
15V PE NBR5518	7232 0002	150x150	222	150	39	M20	30	55	700
17V PE NBR5518	7242 0002	178x178	225	150	41	M20	30	55	1000

### levelling elements in cast iron type V PE 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 <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
7V PE NBR7516	7202 0003	85x85	150	100	25	M12	24	75	560
10V PE NBR7516	7212 0003	100x100	155	100	30	M16	24	75	800
12V PE NBR7516	7221 0003	126x126	159	100	33	M16	24	75	1200
15V PE NBR7516	7232 0003	150x150	220	150	37	M20	30	75	1800
17V PE NBR7516	7242 0003	178x178	223	150	39	M20	30	75	2800

### levelling elements in cast iron type V PE 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 <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
7V PE NBR7525	7202 0004	85x85	159	100	34	M12	24	75	560
10V PE NBR7525	7212 0004	100x100	164	100	39	M16	24	75	800
12V PE NBR7525	7221 0004	126x126	168	100	42	M16	24	75	1200
15V PE NBR7525	7232 0004	150x150	229	150	46	M20	30	75	1800
17V PE NBR7525	7242 0004	178x178	232	150	48	M20	30	75	2800

### levelling elements in cast iron type V PE 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 <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
7V PE NBR8516	7202 0005	85x85	149	100	24	M12	24	90	700
10V PE NBR8516	7212 0005	100x100	154	100	29	M16	24	90	1000
12V PE NBR8516	7221 0005	126x126	158	100	32	M16	24	90	1600
15V PE NBR8516	7232 0005	150x150	220	150	37	M20	30	90	2300
17V PE NBR8516	7242 0005	178x178	223	150	39	M20	30	90	3400

### levelling elements in cast iron type V PE 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 <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
7V PE NBR8525	7202 0006	85x85	159	100	34	M12	24	90	700
10V PE NBR8525	7212 0006	100x100	164	100	39	M16	24	90	1000
12V PE NBR8525	7221 0006	126x126	168	100	42	M16	24	90	1600
15V PE NBR8525	7232 0006	150x150	229	150	46	M20	30	90	2300
17V PE NBR8525	7242 0006	178x178	232	150	48	M20	30	90	3400

### levelling elements in cast iron type V PE 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 <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
7V PE NBR9014	7202 0007	85x85	149	100	24	M12	24	90	700
10V PE NBR9014	7212 0007	100x100	154	100	29	M16	24	90	1000
12V PE NBR9014	7221 0007	126x126	158	100	32	M16	24	90	1600
15V PE NBR9014	7232 0007	150x150	218	150	35	M20	30	90	2300
17V PE NBR9014	7242 0007	178x178	221	150	37	M20	30	90	3400

## 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

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 ).

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

## data on materials and tolerances

### components in cast iron

according to DIN EN ISO 8062-3 DCTG 10 -/- manufacturing tolerance: according to ISO 2768-mk  
materials: EN GJL 200 / EN GJL 250

### 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°  $\pm 5$  shore A, dimensional tolerance  $\pm 1$  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

Technical modifications subject to change! Any previous versions of this document are herewith null and void!