

levelling elements in cast iron  
type R P



## levelling elements in cast iron version R P

A combination of base in cast iron and levelling screw in version R P ( pressure fitting with safety ring ) - pendulum action for angle compensation. The safety ring in the pressure fitting keeps the pivot bearing at the bottom of the levelling screw in place, with small force exertion and correct alignment however, it can easily be removed.

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

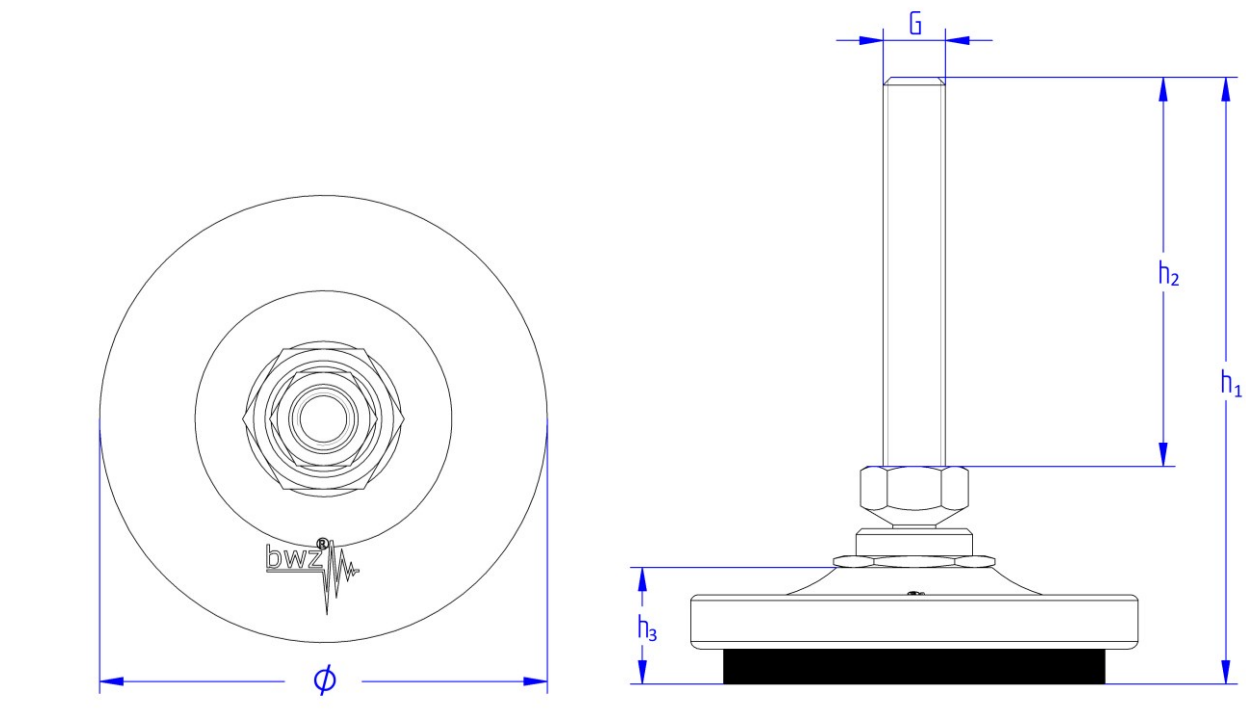
levelling screws are supplied with the following accessories

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 R P



### levelling elements in cast iron type R P 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		Ø	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
6R P NBR5514	7021 0001	70	151	100	25	M12	24	55	100
7R P NBR5514	7031 0001	88	151	100	25	M16	24	55	150
10R P NBR5514	7041 0001	115	154	100	29	M16	24	55	250

### levelling elements in cast iron type R P 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		Ø	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
6R P NBR5518	7021 0002	70	155	100	29	M12	24	55	100
7R P NBR5518	7031 0002	88	155	100	29	M16	24	55	150
10R P NBR5518	7041 0002	115	158	100	33	M16	24	55	250

### levelling elements in cast iron type R P 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		Ø	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
6R P NBR7516	7021 0003	70	152	100	26	M12	24	75	250
7R P NBR7516	7031 0003	88	152	100	26	M16	24	75	400
10R P NBR7516	7041 0003	115	155	100	30	M16	24	75	700

### levelling elements in cast iron type R P 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		Ø	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
6R P NBR7525	7021 0004	70	162	100	36	M12	24	75	250
7R P NBR7525	7031 0004	88	162	100	36	M16	24	75	400
10R P NBR7525	7041 0004	115	165	100	40	M16	24	75	700

### levelling elements in cast iron type R P 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		Ø	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
6R P NBR8516	7021 0005	70	152	100	26	M12	24	90	300
7R P NBR8516	7031 0005	88	152	100	26	M16	24	90	500
10R P NBR8516	7041 0005	115	155	100	30	M16	24	90	1000

## levelling elements in cast iron type R P 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		Ø	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
6R P NBR8525	7021 0006	70	162	100	36	M12	24	90	300
7R P NBR8525	7031 0006	88	162	100	36	M16	24	90	500
10R P NBR8525	7041 0006	115	165	100	40	M16	24	90	1000

## levelling elements in cast iron type R P 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		Ø	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
6R P NBR9014	7021 0007	70	152	100	26	M12	24	90	300
7R P NBR9014	7031 0007	88	152	100	26	M16	24	90	500
10R P NBR9014	7041 0007	115	155	100	30	M16	24	90	1000

## 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<sub>2</sub> - 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° ±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

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