

levelling elements in cast iron
type R PE



levelling elements in cast iron version R PE

A combination of base in cast iron and levelling screw in version R 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 cast iron base 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

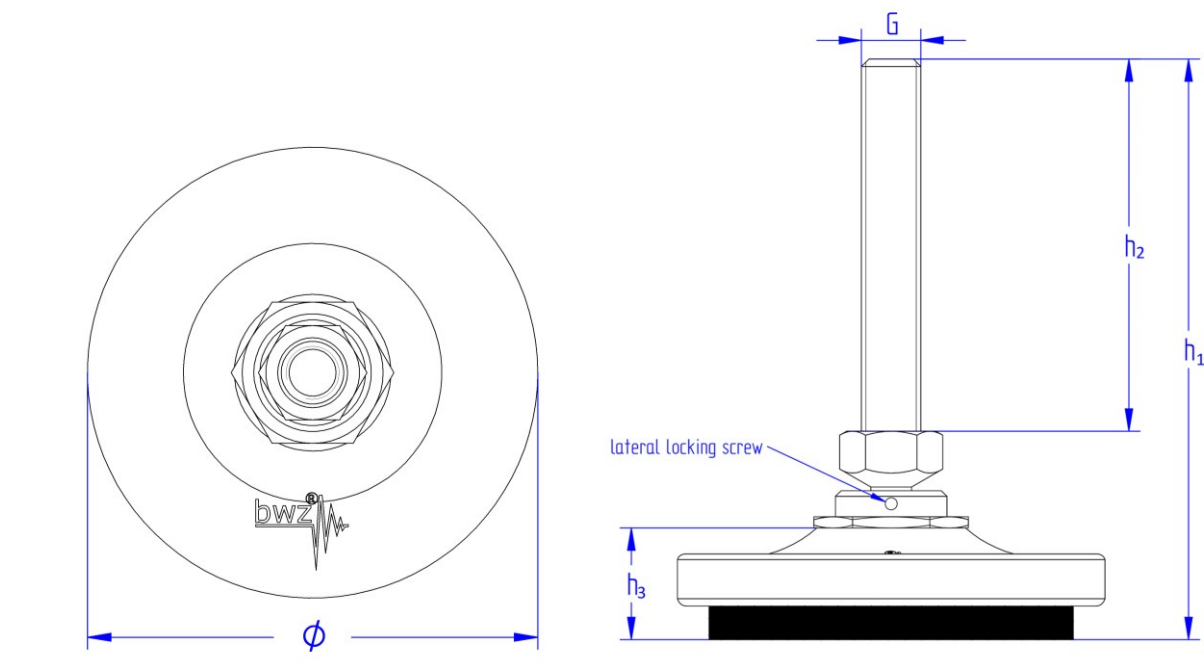
levelling screws are supplied with the following accessories

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 R PE



levelling elements in cast iron type R 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		Ø	h ₁	h ₂	h ₃	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
6R PE NBR5514	7024 0001	70	151	100	25	M12	24	55	100
7R PE NBR5514	7034 0001	88	151	100	25	M16	24	55	150
10R PE NBR5514	7044 0001	115	154	100	29	M16	24	55	250
13R PE NBR5514	7054 0001	145	157	100	32	M16	24	55	500
16R PE NBR5514	7064 0001	165	166	100	34	M20	30	55	800
20R PE NBR5514	7074 0001	225	222	150	39	M20	30	55	1800

levelling elements in cast iron type R 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		Ø	h ₁	h ₂	h ₃	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
6R PE NBR5518	7024 0002	70	155	100	29	M12	24	55	100
7R PE NBR5518	7034 0002	88	155	100	29	M16	24	55	150
10R PE NBR5518	7044 0002	115	158	100	33	M16	24	55	250
13R PE NBR5518	7054 0002	145	161	100	36	M16	24	55	500
16R PE NBR5518	7064 0002	165	170	100	38	M20	30	55	800
20R PE NBR5518	7074 0002	225	226	150	43	M20	30	55	1800

levelling elements in cast iron type R 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		Ø	h ₁	h ₂	h ₃	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
6R PE NBR7516	7024 0003	70	152	100	26	M12	24	75	250
7R PE NBR7516	7034 0003	88	152	100	26	M16	24	75	400
10R PE NBR7516	7044 0003	115	155	100	30	M16	24	75	700
13R PE NBR7516	7054 0003	145	158	100	33	M16	24	75	1200
16R PE NBR7516	7064 0003	165	167	100	35	M20	30	75	1500
20R PE NBR7516	7074 0003	225	223	150	40	M20	30	75	2500

levelling elements in cast iron type R 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		Ø	h ₁	h ₂	h ₃	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
6R PE NBR7525	7024 0004	70	162	100	36	M12	24	75	250
7R PE NBR7525	7034 0004	88	162	100	36	M16	24	75	400
10R PE NBR7525	7044 0004	115	165	100	40	M16	24	75	700
13R PE NBR7525	7054 0004	145	168	100	43	M16	24	75	1200
16R PE NBR7525	7064 0004	165	177	100	45	M20	30	75	1500
20R PE NBR7525	7074 0004	225	233	150	50	M20	30	75	2500

levelling elements in cast iron type R 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									
		Ø	h ₁	h ₂	h ₃	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
6R PE NBR8516	7024 0005	70	152	100	26	M12	24	90	300
7R PE NBR8516	7034 0005	88	152	100	26	M16	24	90	500
10R PE NBR8516	7044 0005	115	155	100	30	M16	24	90	1000
13R PE NBR8516	7054 0005	145	158	100	33	M16	24	90	1700
16R PE NBR8516	7064 0005	165	167	100	35	M20	30	90	2000
20R PE NBR8516	7074 0005	225	223	150	40	M20	30	90	3000

levelling elements in cast iron type R 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									
		Ø	h ₁	h ₂	h ₃	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
6R PE NBR8525	7024 0006	70	162	100	36	M12	24	90	300
7R PE NBR8525	7034 0006	88	162	100	36	M16	24	90	500
10R PE NBR8525	7044 0006	115	165	100	40	M16	24	90	1000
13R PE NBR8525	7054 0006	145	168	100	43	M16	24	90	1700
16R PE NBR8525	7064 0006	165	177	100	45	M20	30	90	2000
20R PE NBR8525	7074 0006	225	233	150	50	M20	30	90	3000

levelling elements in cast iron type R 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									
		Ø	h ₁	h ₂	h ₃	thread (G)	key width	hardness	load
description	article number	mm	mm	mm	mm		mm	±5 Shore	daN
6R PE NBR9014	7024 0007	70	152	100	26	M12	24	90	300
7R PE NBR9014	7034 0007	88	152	100	26	M16	24	90	500
10R PE NBR9014	7044 0007	115	155	100	30	M16	24	90	1000
13R PE NBR9014	7054 0007	145	158	100	33	M16	24	90	1700
16R PE NBR9014	7064 0007	165	167	100	35	M20	30	90	2000
20R PE NBR9014	7074 0007	225	223	150	40	M20	30	90	3000

special screws

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° ± 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!