bwz® Schwingungs-Technik

levelling elements in cast iron
type R PZ

levelling elements in cast iron
version R PZ

A combination of base in cast iron and levelling screw in version PZ - pendulum action with counter screw.
This version features angle compensation. Iron-cast base and levelling screw are tightly connected.

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

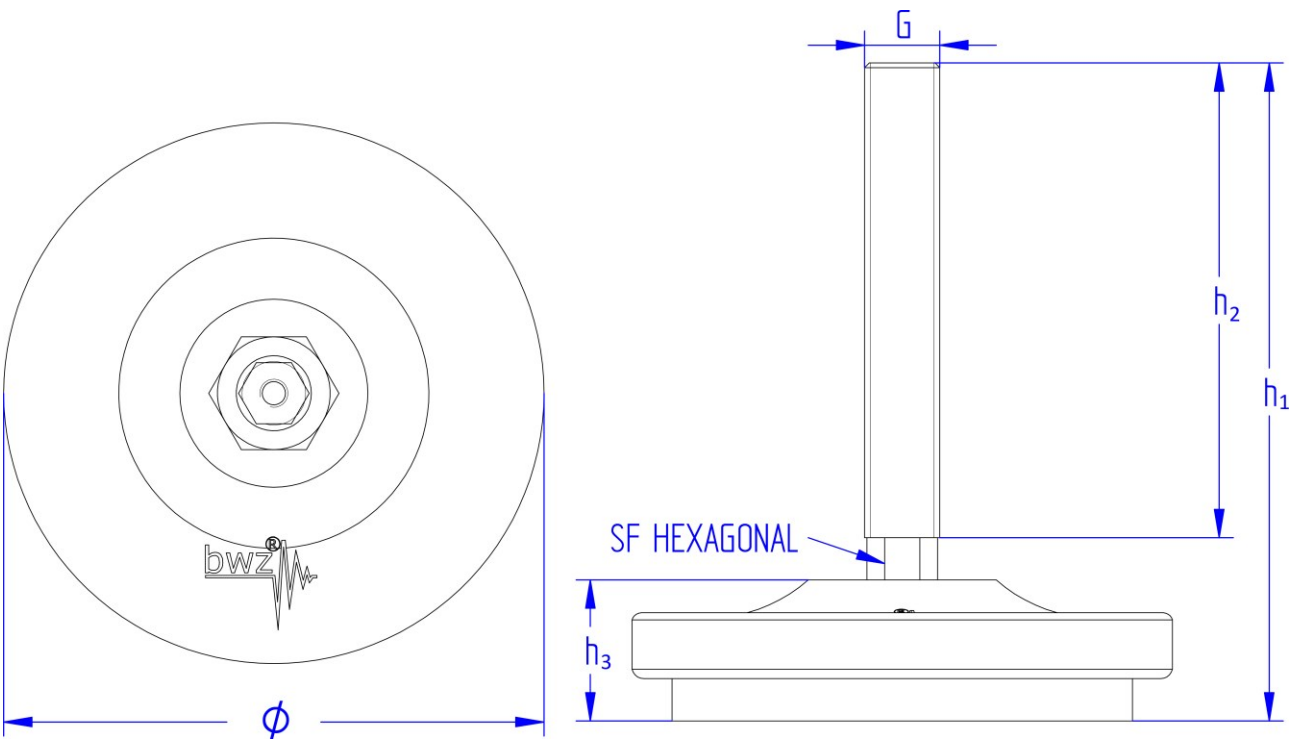
levelling screws are supplied with the following accessories

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 PZ



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levelling elements in cast iron type R PZ 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 (net length)	h_3	thread (G)	hexagonal spanner flat dimension (SF)	hardness	load
description	article number	mm	mm	mm	mm		bottom (mm)	±5 Shore	daN
6R PZ NBR5514	7022 0001	70	135	100	25	M12	8x10	55	100
7R PZ NBR5514	7032 0001	88	139	100	25	M16	12x14	55	150
10R PZ NBR5514	7042 0001	115	140	100	29	M16	12x14	55	250
13R PZ NBR5514	7052 0001	145	143	100	32	M16	12x14	55	500
16R PZ NBR5514	7062 0001	165	145	100	34	M20	14x16	55	800
20R PZ NBR5514	7072 0001	225	200	150	39	M20	14x16	55	1800

levelling elements in cast iron type R PZ 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 (net length)	h_3	thread (G)	hexagonal spanner flat dimension (SF)	hardness	load
description	article number	mm	mm	mm	mm		bottom (mm)	±5 Shore	daN
6R PZ NBR5518	7022 0002	70	139	100	29	M12	8x10	55	100
7R PZ NBR5518	7032 0002	88	143	100	29	M16	12x14	55	150
10R PZ NBR5518	7042 0002	115	144	100	33	M16	12x14	55	250
13R PZ NBR5518	7052 0002	145	147	100	36	M16	12x14	55	500
16R PZ NBR5518	7062 0002	165	149	100	38	M20	14x16	55	800
20R PZ NBR5518	7072 0002	225	204	150	43	M20	14x16	55	1800

levelling elements in cast iron type R PZ 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 (net length)	h_3	thread (G)	hexagonal spanner flat dimension (SF)	hardness	load
description	article number	mm	mm	mm	mm		bottom (mm)	±5 Shore	daN
6R PZ NBR7516	7022 0003	70	136	100	26	M12	8x10	75	250
7R PZ NBR7516	7032 0003	88	140	100	26	M16	12x14	75	400
10R PZ NBR7516	7042 0003	115	141	100	30	M16	12x14	75	700
13R PZ NBR7516	7052 0003	145	144	100	33	M16	12x14	75	1200
16R PZ NBR7516	7062 0003	165	146	100	35	M20	14x16	75	1500
20R PZ NBR7516	7072 0003	225	201	150	40	M20	14x16	75	2500

levelling elements in cast iron type R PZ 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 (net length)	h_3	thread (G)	hexagonal spanner flat dimension (SF)	hardness	load
description	article number	mm	mm	mm	mm		bottom (mm)	±5 Shore	daN
6R PZ NBR7525	7022 0004	70	146	100	36	M12	8x10	75	250
7R PZ NBR7525	7032 0004	88	150	100	36	M16	12x14	75	400
10R PZ NBR7525	7042 0004	115	151	100	40	M16	12x14	75	700
13R PZ NBR7525	7052 0004	145	154	100	43	M16	12x14	75	1200
16R PZ NBR7525	7062 0004	165	156	100	45	M20	14x16	75	1500
20R PZ NBR7525	7062 0004	225	211	150	50	M20	14x16	75	2500

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levelling elements in cast iron type R PZ 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 (net length)	h_3	thread (G)	hexagonal spanner flat dimension (SF)	hardness	load
description	article number	mm	mm	mm	mm		bottom (mm)	±5 Shore	daN
6R PZ NBR8516	7022 0005	70	136	100	26	M12	8x10	90	300
7R PZ NBR8516	7032 0005	88	140	100	26	M16	12x14	90	500
10R PZ NBR8516	7042 0005	115	141	100	30	M16	12x14	90	1000
13R PZ NBR8516	7052 0005	145	144	100	33	M16	12x14	90	1700
16R PZ NBR8516	7062 0005	165	146	100	35	M20	14x16	90	2000
20R PZ NBR8516	7072 0005	225	201	150	40	M20	14x16	90	3000

levelling elements in cast iron type R PZ 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 (net length)	h_3	thread (G)	hexagonal spanner flat dimension (SF)	hardness	load
description	article number	mm	mm	mm	mm		bottom (mm)	±5 Shore	daN
6R PZ NBR8525	7022 0006	70	146	100	36	M12	8x10	90	300
7R PZ NBR8525	7032 0006	88	150	100	36	M16	12x14	90	500
10R PZ NBR8525	7042 0006	115	151	100	40	M16	12x14	90	1000
13R PZ NBR8525	7052 0006	145	154	100	43	M16	12x14	90	1700
16R PZ NBR8525	7062 0006	165	156	100	45	M20	14x16	90	2000
20R PZ NBR8525	7072 0006	225	211	150	50	M20	14x16	90	3000

levelling elements in cast iron type R PZ 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 (net length)	h_3	thread (G)	hexagonal spanner flat dimension (SF)	hardness	load
description	article number	mm	mm	mm	mm		bottom (mm)	±5 Shore	daN
6R PZ NBR9014	7022 0007	70	136	100	26	M12	8x10	90	300
7R PZ NBR9014	7032 0007	88	140	100	26	M16	12x14	90	500
10R PZ NBR9014	7042 0007	115	141	100	30	M16	12x14	90	1000
13R PZ NBR9014	7052 0007	145	144	100	33	M16	12x14	90	1700
16R PZ NBR9014	7062 0007	165	146	100	35	M20	14x16	90	2000
20R PZ NBR9014	7072 0007	225	201	150	40	M20	14x16	90	3000

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screw options

thread	
description	
M8	on request
M10	100, 150
M12	100, 150
M14	on request
M16	100, 150
M18	on request
M20	100, 150
M24	on request
M30	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

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

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

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