

levelling elements in cast iron  
type VL P HS



## levelling elements in cast iron version VL P HS

A combination of base in cast iron and levelling screw in version P HS. This element features a hollow screw with patented pendulum-action safety interlocking between base in cast iron and levelling screw.

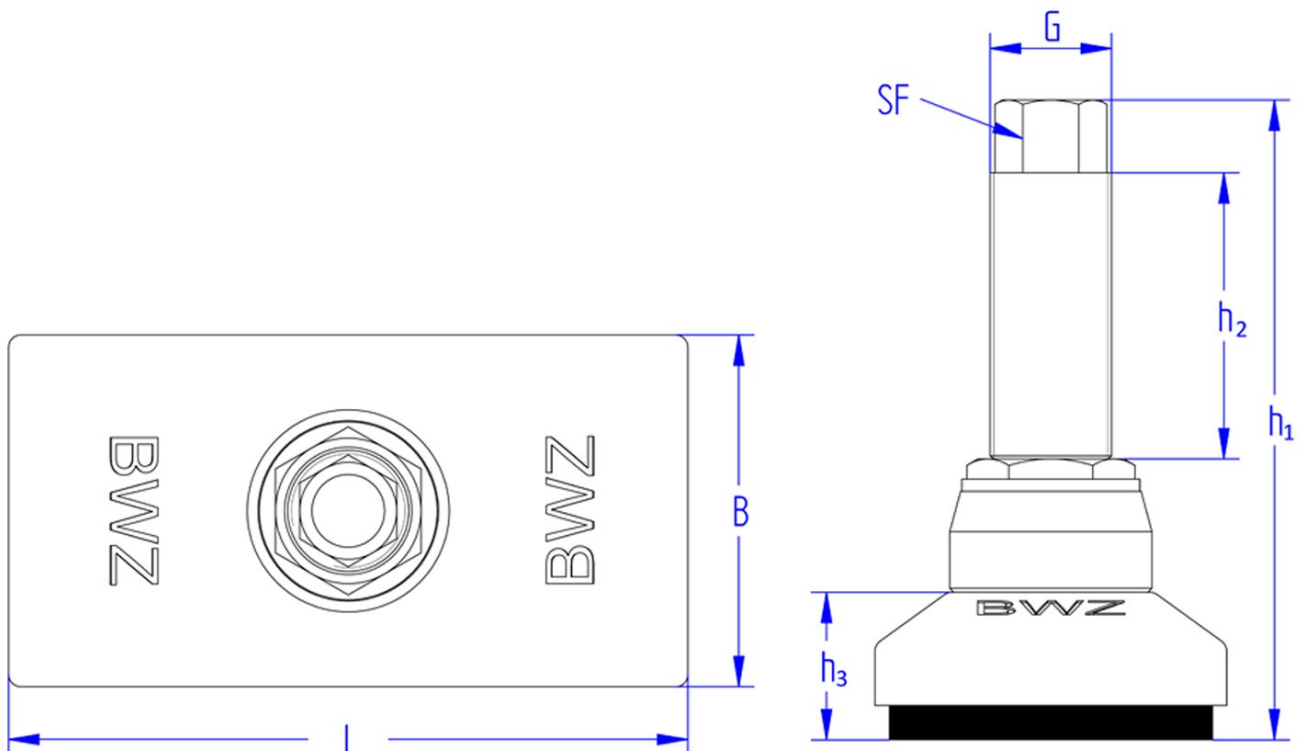
standard colour of the base in cast iron: RAL 9006 white-aluminium  
other colour tones according to RAL on request

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

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

individual packaging of levelling elements in quick-lock mechanism bags and customized article labelling available at extra charge

### schematic illustration version VL P HS



### levelling elements in cast iron type VL P HS 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 inner Ø	SF	thread (G)	hardness	load
description	article number	mm	mm	mm	mm	mm	mm		±5 Shore	daN
16 VL/P/HS NBR5514	7253 0004	167x87	154	70	34	18	24x17	M30x1,5	55	600
16 VL/P/HS NBR5514	7253 0005	167x87	184	100	34	18	24x17	M30x1,5	55	600
21 VL/P/HS NBR5514	7263 0004	217x118	154	70	34	18	24x17	M30x1,5	55	1000
21 VL/P/HS NBR5514	7263 0005	217x118	184	100	34	18	24x17	M30x1,5	55	1000

### levelling elements in cast iron type VL P HS 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 inner Ø	SF	thread (G)	hardness	load
description	article number	mm	mm	mm	mm	mm	mm		±5 Shore	daN
16 VL/P/HS NBR5518	7253 0006	167x87	158	70	38	18	24x17	M30x1,5	55	600
16 VL/P/HS NBR5518	7253 0007	167x87	188	100	38	18	24x17	M30x1,5	55	600
21 VL/P/HS NBR5518	7263 0006	217x118	158	70	38	18	24x17	M30x1,5	55	1000
21 VL/P/HS NBR5518	7263 0007	217x118	188	100	38	18	24x17	M30x1,5	55	1000

### levelling elements in cast iron type VL P HS 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 inner Ø	SF	thread (G)	hardness	load
description	article number	mm	mm	mm	mm	mm	mm		±5 Shore	daN
16 VL/P/HS NBR7516	7253 0008	167x87	156	70	36	18	24x17	M30x1,5	75	1500
16 VL/P/HS NBR7516	7253 0009	167x87	186	100	36	18	24x17	M30x1,5	75	1500
21 VL/P/HS NBR7516	7263 0008	217x118	156	70	36	18	24x17	M30x1,5	75	2500
21 VL/P/HS NBR7516	7263 0009	217x118	186	100	36	18	24x17	M30x1,5	75	2500

### levelling elements in cast iron type VL P HS 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 inner Ø	SF	thread (G)	hardness	load
description	article number	mm	mm	mm	mm	mm	mm		±5 Shore	daN
16 VL/P/HS NBR7525	7253 0010	167x87	165	70	45	18	24x17	M30x1,5	75	1500
16 VL/P/HS NBR7525	7253 0011	167x87	195	100	45	18	24x17	M30x1,5	75	1500
21 VL/P/HS NBR7525	7263 0010	217x118	165	70	45	18	24x17	M30x1,5	75	2500
21 VL/P/HS NBR7525	7263 0011	217x118	195	100	45	18	24x17	M30x1,5	75	2500

### levelling elements in cast iron type VL P HS 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 inner Ø	SF	thread (G)	hardness	load
description	article number	mm	mm	mm	mm	mm	mm		±5 Shore	daN
16 VL/P/HS NBR8516	7253 0012	167x87	155	70	35	18	24x17	M30x1,5	90	1700
16 VL/P/HS NBR8516	7253 0013	167x87	185	100	35	18	24x17	M30x1,5	90	1700
21 VL/P/HS NBR8516	7263 0012	217x118	155	70	36	18	24x17	M30x1,5	90	2800
21 VL/P/HS NBR8516	7263 0013	217x118	185	100	36	18	24x17	M30x1,5	90	2800

### levelling elements in cast iron type VL P HS 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 inner Ø	SF	thread (G)	hardness	load
description	article number	mm	mm	mm	mm	mm	mm		±5 Shore	daN
16 VL/P/HS NBR8525	7253 0014	167x87	165	70	45	18	24x17	M30x1,5	90	1700
16 VL/P/HS NBR8525	7253 0015	167x87	195	100	45	18	24x17	M30x1,5	90	1700
21 VL/P/HS NBR8525	7263 0014	217x118	165	70	45	18	24x17	M30x1,5	90	2800
21 VL/P/HS NBR8525	7263 0015	217x118	195	100	45	18	24x17	M30x1,5	90	2800

### levelling elements in cast iron type VL P HS 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 inner Ø	SF	thread (G)	hardness	load
description	article number	mm	mm	mm	mm	mm	mm		±5 Shore	daN
16 VL/P/HS NBR9014	7253 0002	167x87	155	70	35	18	24x17	M30x1,5	90	1700
16 VL/P/HS NBR9014	7253 0003	167x87	185	100	35	18	24x17	M30x1,5	90	1700
21 VL/P/HS NBR9014	7263 0002	217x118	155	70	34	18	24x17	M30x1,5	90	2800
21 VL/P/HS NBR9014	7263 0001	217x118	185	100	34	18	24x17	M30x1,5	90	2800

## special screws

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 ).

optional accessory of the levelling screw: grooved nut with fine pitch DIN 1804/W zinc-coated

## 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

### manufacturing components from round bar material

according to DIN 668/671 – EN10278 -/- 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!