

**HEAVY-DUTY DESIGN**

Heavy-duty spring levelers – SZ-NIV-HD

Product notes

- > Compensate for height differences
- > Soft attachment for sensitive products
- > Long life even under the toughest conditions
- > Leveling with stainless steel shaft and high-quality bearings
- > Vacuum connection on top, vacuum channel via spring leveler
- > Optionally also available non-rotating

Notes

- > Recommendation: for the best possible service life do not exceed max. stroke indicated

Technical data

Item no.	Model	Thread suction side G2	Stroke C [mm]	Spring rate [N/mm]	Max. spring force [N]	Spring pre-load [N]	Non-rotating	Weight [g]	Suitable mounting bracket
50.315	SZ-NIV-HD-G1/8-AG-15	G1/8-male	15	0.221	5.4	2.1	Without	83	GR02.231
50.310	SZ-NIV-HD-G1/8-AG-15-VS	G1/8-male	15	0.221	6.6	3.3	Yes	83	GR02.231
50.316	SZ-NIV-HD-G1/8-AG-25	G1/8-male	25	0.193	6.8	2	Without	89	GR02.231
50.311	SZ-NIV-HD-G1/8-AG-25-VS	G1/8-male	25	0.193	5.8	1	Yes	89	GR02.231
50.317	SZ-NIV-HD-G1/8-AG-50	G1/8-male	50	0.097	6.7	1.8	Without	104	GR02.231
50.312	SZ-NIV-HD-G1/8-AG-50-VS	G1/8-male	50	0.097	7.6	2.8	Yes	104	GR02.231
50.345	SZ-NIV-HD-G1/4-AG-25	G1/4-male	25	0.711	22.9	5.2	Without	134	GR02.232
50.340	SZ-NIV-HD-G1/4-AG-25-VS	G1/4-male	25	0.711	22.1	4.3	Yes	134	GR02.232
50.346	SZ-NIV-HD-G1/4-AG-50	G1/4-male	50	0.452	24.5	1.9	Without	160	GR02.232
50.341	SZ-NIV-HD-G1/4-AG-50-VS	G1/4-male	50	0.452	23.9	1.3	Yes	160	GR02.232
50.347	SZ-NIV-HD-G1/4-AG-75	G1/4-male	75	0.262	22.3	2.6	Without	186	GR02.232
50.342	SZ-NIV-HD-G1/4-AG-75-VS	G1/4-male	75	0.262	24	4.4	Yes	186	GR02.232
50.350	SZ-NIV-HD-G3/8-AG-25	G3/8-male	20	3.828	95.6	19.1	Without	410	--
50.353	SZ-NIV-HD-G3/8-AG-25-VS	G3/8-male	20	3.828	95.4	18.9	Yes	406	--
50.351	SZ-NIV-HD-G3/8-AG-75	G3/8-male	75	1.072	113.4	33	Without	531	--
50.354	SZ-NIV-HD-G3/8-AG-75-VS	G3/8-male	75	1.072	124.5	44.1	Yes	525	--
50.360	SZ-NIV-HD-G1/2-AG-25	G1/2-male	20	3.828	95.1	18.5	Without	419	--
50.363	SZ-NIV-HD-G1/2-AG-25-VS	G1/2-male	20	3.828	105.9	29.3	Yes	416	--
50.361	SZ-NIV-HD-G1/2-AG-75	G1/2-male	75	1.436	113.8	6.1	Without	548	--
50.364	SZ-NIV-HD-G1/2-AG-75-VS	G1/2-male	75	1.436	121.7	14	Yes	540	--
50.366	SZ-NIV-HD-M12-AG-25	M12-male	25	0.711	22.9	5.2	Without	150	GR02.232
50.367	SZ-NIV-HD-M12-AG-25-VS	M12-male	25	0.711	22.1	4.3	Yes	150	GR02.232
50.368	SZ-NIV-HD-M12-AG-50	M12-male	50	0.452	24.5	1.9	Without	176	GR02.232
50.369	SZ-NIV-HD-M12-AG-50-VS	M12-male	50	0.452	23.9	1.3	Yes	176	GR02.232



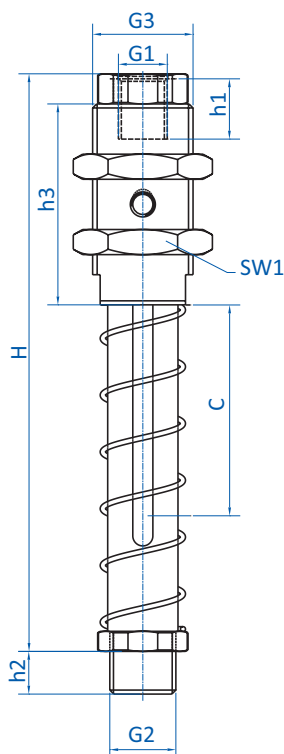
Fastening elements vacuum cups | Spring leveler

Heavy-duty spring levelers – SZ-NIV-HD

Technical data

Item no.	Model	Thread suction side G2	Stroke C [mm]	Spring rate [N/mm]	Max. spring force [N]	Spring pre-load [N]	Non-rotating	Weight [g]	Suitable mounting bracket
50.370	SZ-NIV-HD-M12-AG-75	M12-male	75	0.262	22.3	2.6	Without	202	GR02.232
50.371	SZ-NIV-HD-M12-AG-75-VS	M12-male	75	0.262	24	4.4	Yes	202	GR02.232
50.372	SZ-NIV-HD-M16-AG-25	M16-male	20	3.828	95.6	19.1	Without	451	--
50.373	SZ-NIV-HD-M16-AG-25-VS	M16-male	20	3.828	95.4	18.9	Yes	447	--
50.374	SZ-NIV-HD-M16-AG-75	M16-male	75	1.072	113.4	33	Without	572	--
50.375	SZ-NIV-HD-M16-AG-75-VS	M16-male	75	1.072	124.5	44.1	Yes	566	--

Dimensions



Item no.	H [mm]	h1 [mm]	h2 [mm]	h3 [mm]	SW1	G1 (female)	G2 (male)	G3 (male)	C [mm]
50.315	72	8	8	30	22	G1/8	G1/8	M16x1	15
50.310	72	8	8	30	22	G1/8	G1/8	M16x1	15
50.316	85	8	8	30	22	G1/8	G1/8	M16x1	25
50.311	85	8	8	30	22	G1/8	G1/8	M16x1	25
50.317	116	8	8	30	22	G1/8	G1/8	M16x1	50
50.312	116	8	8	30	22	G1/8	G1/8	M16x1	50
50.345	85.5	12	8.5	40	24	G1/8	G1/4	M20x1.5	25
50.340	85.5	12	8.5	40	24	G1/8	G1/4	M20x1.5	25
50.346	115	12	8.5	40	24	G1/8	G1/4	M20x1.5	50
50.341	115	12	8.5	40	24	G1/8	G1/4	M20x1.5	50
50.347	144.5	12	8.5	40	24	G1/8	G1/4	M20x1.5	75
50.342	144.5	12	8.5	40	24	G1/8	G1/4	M20x1.5	75
50.350	104	14	12	53	36	G3/8	G3/8	M30x1.5	25
50.353	104	14	12	53	36	G3/8	G3/8	M30x1.5	25

Fastening elements vacuum cups | Spring leveler

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Item no.	H [mm]	h1 [mm]	h2 [mm]	h3 [mm]	SW1	G1 (female)	G2 (male)	G3 (male)	C [mm]
50.351	175	14	12	53	36	G3/8	G3/8	M30x1.5	75
50.354	175	14	12	53	36	G3/8	G3/8	M30x1.5	75
50.360	104	14	12	53	36	G3/8	G1/2	M30x1.5	25
50.363	104	14	12	53	36	G3/8	G1/2	M30x1.5	25
50.361	175	14	12	53	36	G3/8	G1/2	M30x1.5	75
50.364	175	14	12	53	36	G3/8	G1/2	M30x1.5	75
50.366	97.5	12	10	40	24	G1/8	M12	M20x1.5	25
50.367	97.5	12	10	40	24	G1/8	M12	M20x1.5	25
50.368	127	12	10	40	24	G1/8	M12	M20x1.5	50
50.369	127	12	10	40	24	G1/8	M12	M20x1.5	50
50.370	156.5	12	10	40	24	G1/8	M12	M20x1.5	75
50.371	156.5	12	10	40	24	G1/8	M12	M20x1.5	75
50.372	119	14	10	53	36	G3/8	M16	M30x1.5	25
50.373	119	14	10	53	36	G3/8	M16	M30x1.5	25
50.374	190	14	10	53	36	G3/8	M16	M30x1.5	75
50.375	190	14	10	53	36	G3/8	M16	M30x1.5	75