



# Fastening elements vacuum cups | Spring leveler

Standard spring levelers with threaded connection – SZ-NIV-S

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### Product notes

- > Compensate for height differences
- > Soft attachment for sensitive products
- > Leveling as standard version
- > Vacuum connection on top, vacuum channel via spring leveler
- > Also available non-rotating (M5-female)

### Notes

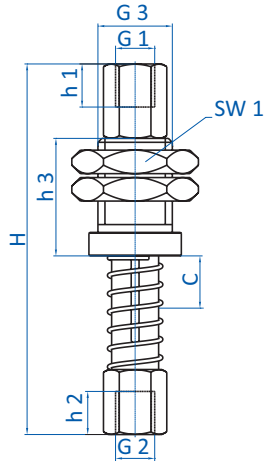
- > Recommendation: for the best possible service life do not exceed max. stroke indicated

### Technical data

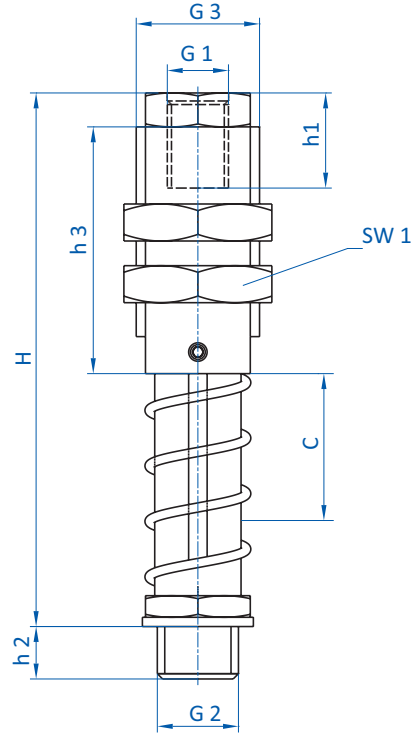
Item no.	Model	Thread suction side G2	Thread fixing bushes G3	Stroke C [mm]	Spring rate [N/mm]	Max. spring force [N]	Spring pre-load [N]	Non-rotating	Weight [g]	Suitable mounting bracket
50.158	SZ-NIV-S-M5-IG-5	M5-female	G1/8-male	5	0.393	4	2	Without	17	GR02.230
50.149	SZ-NIV-S-M5-IG-10	M5-female	G1/8-male	10	0.361	5.8	2.2	Without	18	GR02.230
50.152	SZ-NIV-S-M5-IG-10-VS	M5-female	G1/8-male	10	0.361	5.5	1.9	Yes	19	GR02.230
50.150	SZ-NIV-S-M5-IG-20	M5-female	G1/8-male	18	0.227	4.3	0.3	Without	20	GR02.230
50.153	SZ-NIV-S-M5-IG-20-VS	M5-female	G1/8-male	20	0.227	4.8	0.3	Yes	21	GR02.230
50.230	SZ-NIV-S-G1/8-AG-15	G1/8-male	M16x1-male	15	0.211	6.5	3.3	Without	94	GR02.231
50.160	SZ-NIV-S-G1/8-AG-25	G1/8-male	M16x1-male	25	0.231	8.7	2.9	Without	94	GR02.231
50.162	SZ-NIV-S-G1/8-AG-50	G1/8-male	M16x1-male	50	0.156	9.7	1.9	Without	110	GR02.231
50.164	SZ-NIV-S-G1/4-AG-25	G1/4-male	M20x1.5-male	25	0.65	18.3	2	Without	136	GR02.232
50.166	SZ-NIV-S-G1/4-AG-75	G1/4-male	M20x1.5-male	75	0.245	19.4	1.1	Without	195	GR02.232



### Dimensions



50.158 | 50.149 | 50.152 | 50.150 | 50.153



50.230 | 50.160 | 50.162 | 50.164 | 50.166

Item no.	H [mm]	h1 [mm]	h2 [mm]	h3 [mm]	SW1	G1 (female)	G2 (male)	G2 (female)	G3 (male)	C [mm]
50.158	43	5.5	6.2	15	14	M5	--	M5	G1/8	5
50.149	47	5.5	6.2	15	14	M5	--	M5	G1/8	10
50.152	47	5.5	6.2	15	14	M5	--	M5	G1/8	10
50.150	59	5.5	6.2	15	14	M5	--	M5	G1/8	20
50.153	59	5.5	6.2	15	14	M5	--	M5	G1/8	20
50.230	72	8	6.5	30	22	G1/8	G1/8	--	M16x1	15
50.160	85	8.5	8.5	30	22	G1/8	G1/8	--	M16x1	25
50.162	116	8.5	6.5	30	22	G1/8	G1/8	--	M16x1	50
50.164	95	15	9	40	24	G1/8	G1/4	--	M20x1.5	25
50.166	153	15	10.5	40	24	G1/8	G1/4	--	M20x1.5	75