



# Fastening elements vacuum cups | Spring leveler

Spring levelers for direct vacuum cup mounting – spring open – SZ-NIV-DA

## Spring levelers for direct vacuum cup mounting – spring open – SZ-NIV-DA



Series 1

Series 2

### Product notes

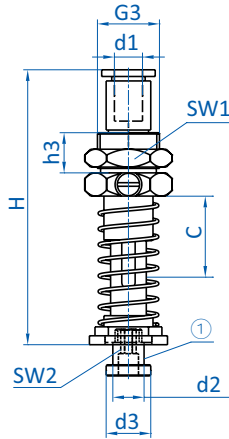
- > Direct mounting of the spring leveler on the vacuum cup, no additional fitting required
- > Compensate for height differences
- > Soft attachment for sensitive products
- > Leveling with an open spring

### Technical data

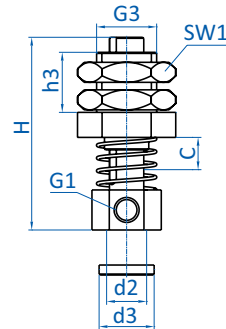
Item no.	Series	Thread suction side G2	Thread fixing bushes G3	Stroke C [mm]	Spring rate [N/mm]	Max. spring force [N]	Spring pre-load [N]	Non-rotating	Hose outside $\phi$ [mm]	Hose inner diameter [mm]	Weight [g]
50.095	1	Without (Snap-in)	M14x1-male	19.5	0.165	4.5	1.3	Yes	6	--	51
50.096	1	Without (Snap-in)	M14x1-male	30	2.984	2.7 - 0.2	0.2	Yes	6	--	57
50.097	1	Without (Snap-in)	M14x1-male	39	0.078	3.9	0.8	Yes	6	--	62
50.098	1	Without (Snap-in)	M14x1-male	49.5	0.066	3.8	0.5	Yes	6	--	67
50.141	2	Without (Snap-in)	M10x1-male	9	0.475	4.8	0.5	No	--	--	12
50.005	2	Without (Snap-in)	M12-male	5	0.165	2	1.2	No	--	--	23
50.145	2	Without (Snap-in)	M12-male	10	0.365	3.8	0.1	No	--	--	39
50.146	2	Without (Snap-in)	M12-male	25	0.25	9.1	2.8	No	--	--	46
50.037	2	Without (Snap-in)	M12x1.5-male	25	0.503	12.8	0.2	No	--	4	69



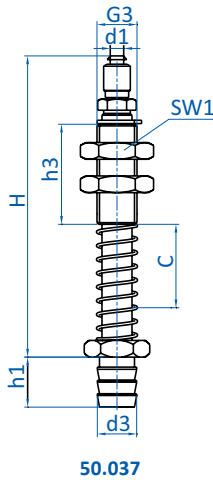
## Dimensions



50.095 | 50.096 | 50.097 | 50.098



50.141 | 50.005 | 50.145 | 50.146



50.037

① = Mounting screw M6

Item no.	Ø d1 [mm]	Ø d2 [mm]	Ø d3 [mm]	G1	G3	H [mm]	h1 [mm]	h3 [mm]	SW1	SW2	C [mm]
50.095	6	7	10	--	M14x1	61	--	9	17	3	20
50.096	6	7	10	--	M14x1	75	--	9	17	3	30
50.097	6	7	10	--	M14x1	87	--	9	17	3	40
50.098	6	7	10	--	M14x1	100	--	9	17	3	50
50.141	--	5	7	M5	M10x1	40	--	12	14	--	8
50.005	--	8	11	M5	M12	43	--	16	19	--	5
50.145	--	8	11	M5	M12	44	--	15	17	--	10
50.146	--	8	11	M5	M12	65	--	15	17	--	30
50.037	4	--	5.5	--	M12x1.5	89	7	30	19	--	25