



# Fastening elements vacuum cups | Spring leveler

Spring levelers for direct vacuum cup mounting – internal spring – SZ-NIV-DI

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### Product notes

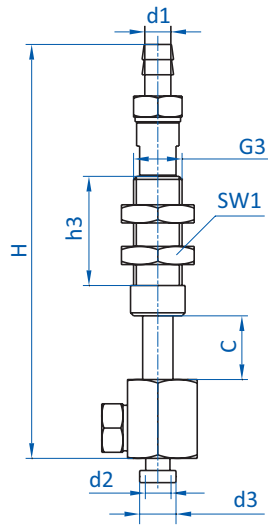
- > Direct mounting of the spring leveler on the vacuum cup, no additional fitting required
- > With internal spring protected from dirt and with spring deflection limiter
- > Compensate for height differences
- > Soft attachment for sensitive products
- > Vacuum connection on top, vacuum channel via spring leveler

### Technical data

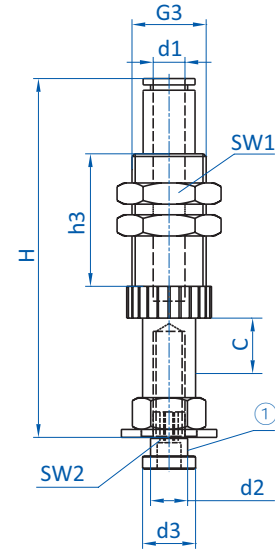
Item no.	Thread suction side G2	Thread fixing bushes G3	Stroke C [mm]	Spring rate [N/mm]	Max. spring force [N]	Spring pre-load [N]	Non-rotating	Hose inner diameter [mm]	Hose outer diameter [mm]	Design	Weight [g]	Suitable mounting bracket
50.330	Without (Snap-in)	M8x0.75	9	0.037	0.6	0.2	No	4	--	--	19	--
50.103	Without (Snap-in)	M14x1-male	5.5	0.36	6.4	4.4	Yes	--	6	--	34	--
50.104	Without (Snap-in)	M14x1-male	6	0.388	6.5	4.2	Yes	--	4	--	33	--
50.125	Without (Snap-in)	M14x1-male	9.5	0.286	5.3	2.6	Yes	--	6	--	36	--
50.126	Without (Snap-in)	M14x1-male	15	1.933	5.2	1.9	Yes	--	6	--	41	--
50.127	Without (Snap-in)	M14x1-male	19.5	0.147	3.9	1	Yes	--	6	--	48	--
50.085	Without (Snap-in)	M14x1-male	6	0.89	13.7	0.3	Yes	--	6	--	36	--
50.086	Without (Snap-in)	M14x1-male	5.5	0.706	11.5	7.6	Yes	--	4	--	36	--
50.128	Without (Snap-in)	M14x1-male	10	0.534	8.7	3.4	Yes	--	6	--	36	--
50.129	Without (Snap-in)	M14x1-male	15	0.452	6.9	0.1	Yes	--	6	--	41	--
50.130	Without (Snap-in)	M14x1-male	19.5	0.325	8.1	1.8	Yes	--	6	--	48	--
50.018	Without (Snap-in)	M16x1-male	8.5	0.141	2.3	1.1	No	--	4	Plastic corpus	21	GR02.231
50.020	Without (Snap-in)	M16x1-male	8.5	0.157	2.3	0.9	No	--	6	Plastic corpus	23	GR02.231



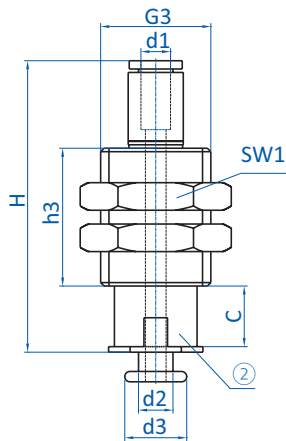
### Dimensions



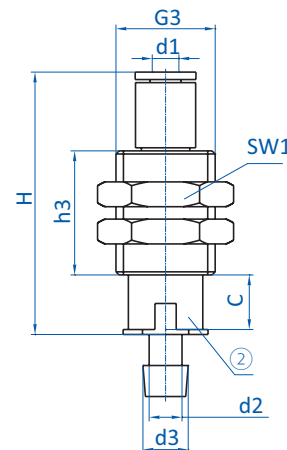
50.330



50.103 | 50.104 | 50.125 | 50.126 | 50.127 |  
50.085 | 50.086 | 50.128 | 50.129 | 50.130



50.018



50.020

① = Mounting screw ② = Plastic body

Item no.	Ø d1 [mm]	Ø d2 [mm]	d2	Ø d3 [mm]	G3	H [mm]	h3 [mm]	SW1	SW2	C [mm]
50.330	4.3	4	--	6	M8x0.75	68	18	12	--	10
50.103	6	--	M4	6.3	M14x1	52	20	17	+	6
50.104	4	--	M4	6.3	M14x1	52	20	17	+	6
50.125	6	5	--	6	M14x1	56	20	17	3	10
50.126	6	5	--	6	M14x1	67	25	17	3	15
50.127	6	5	--	6	M14x1	83	34	17	3	20
50.085	6	7	--	10	M14x1	52	20	17	3	6
50.086	4	7	--	10	M14x1	52	20	17	3	6
50.128	6	7	--	10	M14x1	58	20	17	3	10
50.129	6	7	--	10	M14x1	68	25	17	3	15
50.130	6	7	--	10	M14x1	83	34	17	3	20
50.018	4	5	--	8.7	M16x1	45	20	19	--	8.5
50.020	6	5	--	7.3	M16x1	42.5	20	19	--	8.5