



Heavy-duty spring levelers – SZ-NIV-HD

HEAVY-DUTY DESIGN



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 |



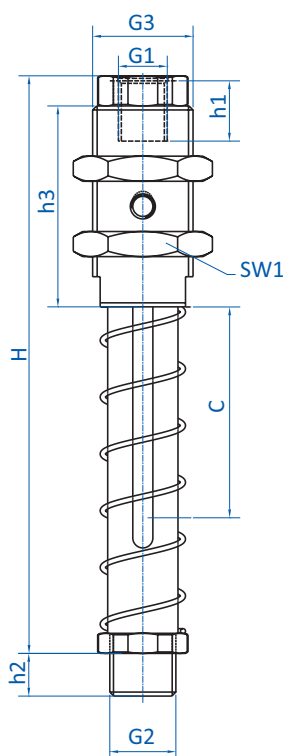
Fastening elements vacuum cups | Spring leveler

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

Heavy-duty spring levelers – SZ-NIV-HD



| 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 |