

Spring plunger, Suction connection G 1/8 ET, Spring travel 50 mm - Riegler 108541

Item no. RGL-108541

Manufacturer Riegler

EAN 4047322200912

Spring plunger, Suction connection G 1/8 ET, Spring travel 50 mm

TECHNICAL DATA

Country of Manufacture	Germany
Length [mm]	124,0
Temperature (max.)	80
Weight	0.11 kg
Zolltarifnummer	84879090



DESCRIPTION

Spring plunger, Suction / vacuum connection G 1/8 ET, G 1/8 IT, Spring travel 50 mm, Operating temperature 0 °C to 80 °C Suitable for all round or oval suction pads in our standard range. Applications: Handling workpieces with different heights (such as curved metal sheets, etc.) Handling easily damaged workpieces, since the plunger ensures soft placement Type Spring plunger consisting of a high-strength steel rod, guide sleeve and lower damping spring Plunger rod with integrated vacuum feed

TECHNICAL DATA

Min. operating temperature	0 °C
Max. operating temperature	80 °C
Length	124.0 mm
Suction pad thread	G 1/8 ET
Vacuum inlet	G 1/8 IT
Weight	110.0 g
Spring force	5.34 N
Spring travel	50 mm
Horizontal load	173 N
Spring pretension	2.92 N

Vertical load

3700 N

Spring rate

0.097 N/mm

STANDARDS AND ORIGIN

- Customs tariff number: 84879090
- Country of origin: DE

ABOUT SYSTEM ADDITIONS

System accessories brings together the parts used to monitor, connect and level a vacuum system: sensors, pressure switches, spring plungers and connecting pieces. The 24 items use threads from M5 to G 1/2 and overall lengths of 15.5 to 154 mm. The electrical devices are rated for 0 °C to 80 °C.

WHAT MATTERS WHEN CHOOSING

- Thread 1 and thread 2: available as M5 ET, M10x1.25 ET and G 1/8, G 1/4 and G 1/2, each as internal and external thread. Both ends have to match the suction cup and the vacuum generator.
- Length 15.5 to 154 mm: on spring plungers the overall length together with the spring travel sets how much height difference can be levelled out at the workpiece and how much installation space is needed.
- Housing in aluminium or polycarbonate: aluminium for mechanically loaded positions, polycarbonate for light devices mounted right at the gripper.
- Measuring range max. 0 to 10 bar: sensors for pure vacuum monitoring end at 0 bar, pressure switches also cover positive pressure. The working point of the system has to fall inside the range.
- Protection IP 40 and M5 ET connection on the mini sensors: both limit the mounting position and the ambient conditions and should be checked before selection.

TYPICAL APPLICATIONS

- Measuring the vacuum level at the suction cup itself instead of centrally at the generator
- Safety monitoring and cycle time optimisation on handling systems
- Handling workpieces with height differences such as curved sheet metal parts
- Placing suction cups gently on sensitive workpieces through the spring travel
- Connecting suction cups and vacuum lines where installation space is tight

The devices are released for dry, oil-free air and non-aggressive gases, the sensors with IP 40 protection. All 24 items in this group are manufactured in Germany.