

DWG 44-100

Spring spare parts package

Repair Instructions

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Superior Clamping and Gripping



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Technical changes

We reserve the right to make alterations for the purpose of technical improvement.

Document number:1005193

Edition:01.00 | 23/01/2017 | de - en

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1 Intended use

If the gripping force without attached compressed air decreases, the spring needs to be changed and the product tested for wear.

2 Scope of Delivery

Designation	DWG				
	44	54	64	80	100
Screw [pcs.]	5	5	5	5	4
Quad ring [pcs.]	1	1	1	1	1
Compression spring [pcs.]	1	1	1	1	1
O-ring [pcs.]	1	1	1	1	1
Safety ring [pcs.]	-	-	-	-	1
Shock absorber ring [pcs.]	-	-	-	-	1

3 Applicable documents

- Catalog data sheet of the product *
- Assembly and operating manual of the product *

The documents marked with an asterisk (*) can be downloaded on our homepage www.schunk.com.

4 Notes on particular risks



WARNING

Risk of injury due to sudden movements!

If the energy supply is switched on or if residual energy is still present in the system, this can cause components to move unexpectedly, which may result in serious injuries.

- Switch off energy supply and secure against re-connection.
- Ensure that no residual energy remains in the system.



WARNING

Risk of injury due to spring forces!

Products that use spring force or have gripping force maintenance contain parts that are under spring tension. This can cause components to move unexpectedly when being dismantled, which may result in serious injuries.

- Carefully dismantle the product.

5 Tools/auxiliary tools

- Hexagon socket wrench
- Clamping device

6 Recommended lubricants

Lubricant point	Lubricant
Metallic sliding surfaces	LINOMAX
All seals	Renolit HLT 2
Bores on the piston	Renolit HLT 2

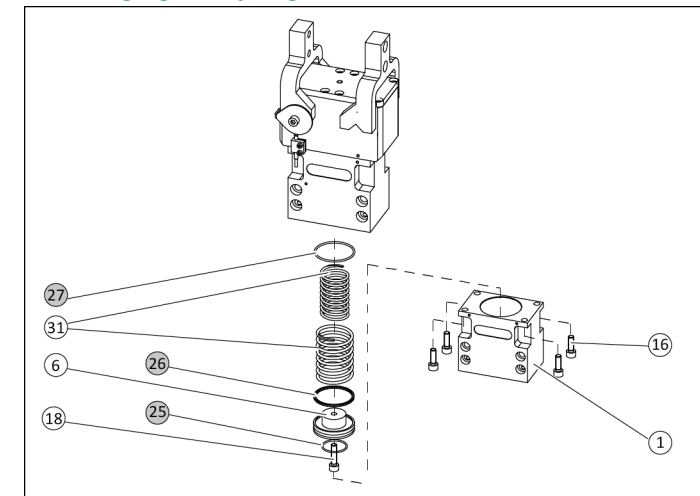
7 Tightening torque

Item	Designation	DWG				
		44	54	64	80	100
16	Screw [Nm]	3.1	3.1	6.1	10	-
18	Screw [Nm]	5.3	5.3	11	18	49

8 Threadlocker

If not stated otherwise, screws can be secured using Loctite 243 or a similar adhesive.

9 Changing the springs



Dismantling

- Remove all compressed air lines.
- Disassemble gripper from the machine/automated system.
- **WARNING! The parts are under spring tension!** Loosen the screws (16) and remove the housing (1). Carefully loosen the screw (22).
- Remove piston (6) and springs (31).

Assembly

When assembling, use the parts from the spare part package.

- Clean all parts thoroughly, check for damage and wear and grease with a lint-free cloth or brush.
- If necessary replace seals shown in gray in the picture.
- Fasten the spring (31) and piston (6) onto the piston rod with screw (18).
- Secure the housing (1) with screws (16).
- Assemble gripper on the machine/automated system.
- Secure all compressed air lines.