

# Installation and Operating Instructions E 4.626e

for RIMOSTAT Torque Limiters, Series RS, RSC + RSW, Size 40 ... 100

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## IMPORTANT

Before the installation and starting up operation of this product, the following installation and operation instructions have to be studied carefully. Special attention must be paid to specific notes and remarks referring to sources of danger.

These installation and operation instructions is based on the assumption, that a correct choice of product has been made for your application. Selection and design of the product are not object of these installation and operating instructions.

If these installation and operating instructions are ignored or misinterpreted, any product liability and guarantee on the part of RINGSPANN expires; the same applies if our product is disassembled or modified.

The installation and operating instructions have been provided your reference and in case our product is passed on (either detached or as part of a machine), they must accompany the product in order to be accessible to the user.

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## SAFETY INFORMATION

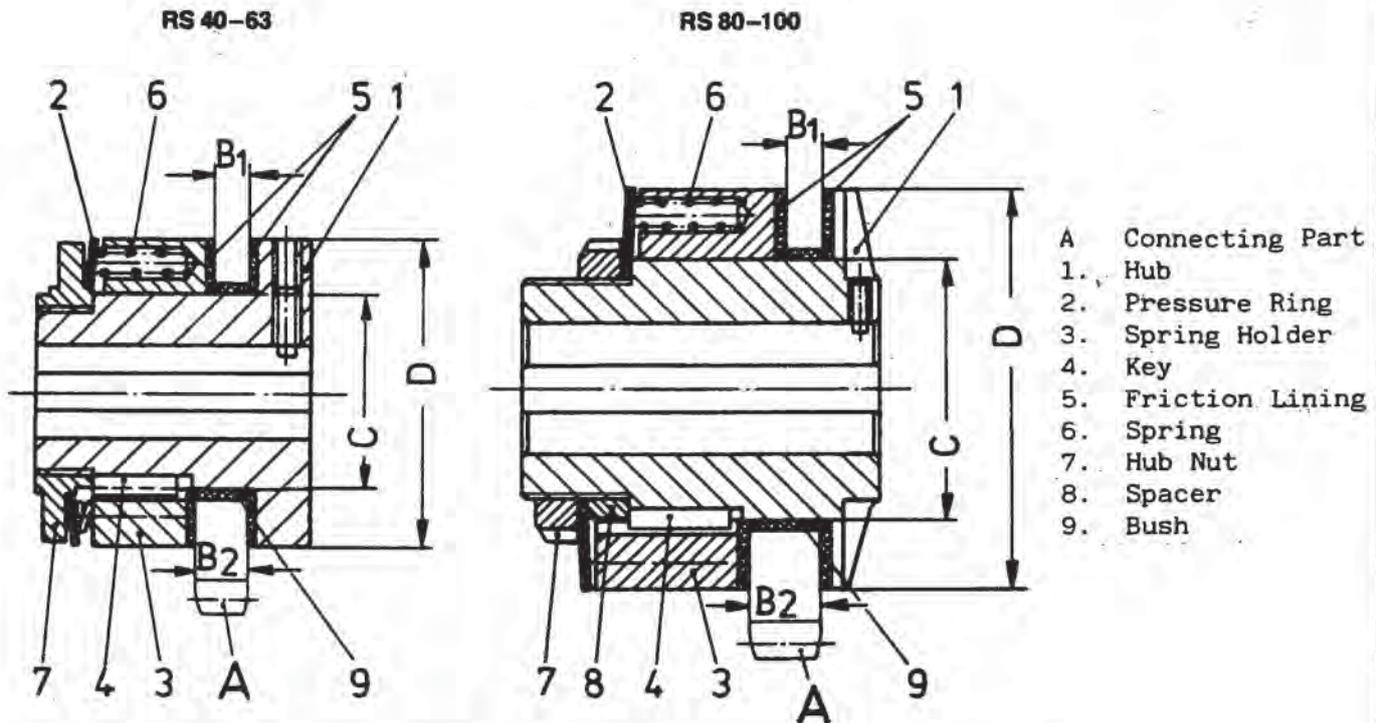
- Installation and starting up operation of our product must be carried out only by skilled personnel.
- Repair work must be done by the manufacturer or by authorized RINGSPANN representatives only.
- If a malfunction is suspected, the product or the machine in which it is built in, must be taken out of operation immediately and RINGSPANN GmbH or an authorized RINGSPANN representation must be informed.

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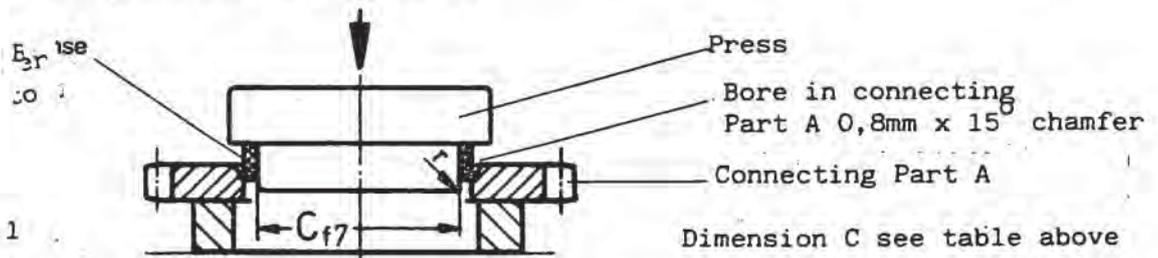
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size D (mm)	number springs	C mm	B1 mm	B2 mm	operating key for part 7	tight.torque for part 7
40	18	25	4,4	7	wrench SW 36	40 Nm
50	18	32	5,2	8,7	wrench SW 36	80 Nm
63	18	40	5,8	10,5	wrench SW 50	120 Nm
80	30	50	5,8	15,3	'C' spanner A58-62	300 Nm
100	30	65	8,7	18	'C' spanner A68-75	500 Nm

**1. Fitting of Connecting Part A**

For the fitting of the bush, it is recommended that this be done with the aid of a press according to figure 1



Press the bush into the machine part A using a press (lightly oil the bore of the machine part).

Unscrew hub nut (7) with correct key or spanner (see above table). Withdraw the pressure ring (2) and spring holder (3) with springs (6). Key (4) and front friction lining (5), part A can now be fitted.

Torque limiter should be reassembled in opposite sequence. Pressure Rings (2), lightly plate shaped, to be mounted as shown in picture. Hub nut (7) must be tightened hard, dependent on whether correcting part B<sub>1</sub> or B<sub>2</sub> is being used with sizes 40 - 63, you should note carefully which way round the hub nut (7) is put in, see RS drawing above, For the sizes 80-100 a built in bearing spacer (pos 8) is supplied which has to be detached when assembling a connecting part with width B<sub>1</sub>

**II. Lubrication**

For the bush, no other lubrication is required.

**III. Running In**

Constant operating torque is guaranteed if the torque limiter is run in with a locked connecting part according to the table below. The running in is not necessary for the sizes 40-63, and also if the torque limiter with connecting part A and set torque was supplied by Ringspann.

Size RS for RSW	Effective number of springs	Running in speed	Running in time
80.1...100.1	30	60 min <sup>-1</sup>	0,5 min
80.2...100.2	30	30 min <sup>-1</sup>	0,5 min

**IV. Setting of Torque**

After running, let the torque limiter cool down and as described in paragraph 1 remove the springs (6). The necessary number of springs requires to give a certain torque can be calculated approximately with the help of the diagram.

An exact torque setting is only possible by measuring the torque. For this for instance, a lever to which weights can be attached, (see fig 2) is connected with machine part A

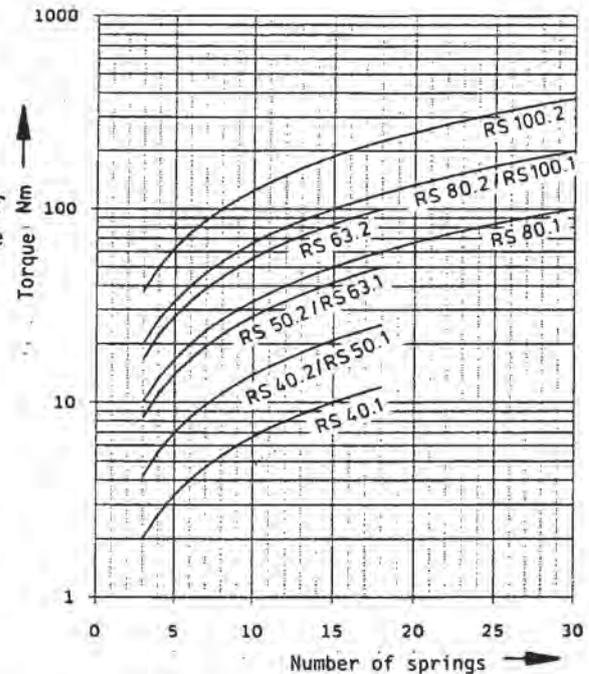
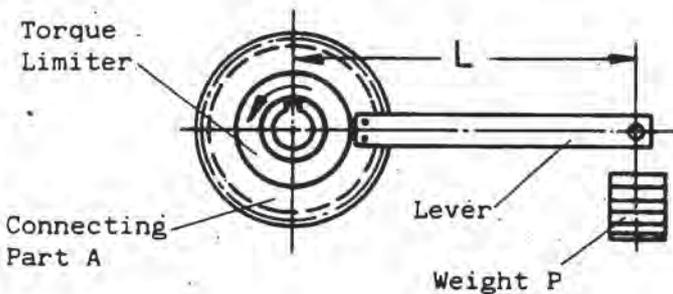


Figure 2



With the torque limiter running slow, the lever has to be brought into balance by adjusting the weight P and then calculate the transmissible torque:

$$M = L \cdot 9,81 \cdot [P + 0,5 G]$$

- M = Torque in Nm
- L = lever length in m
- P = weight in kg
- G = lever weight in kg

For use with high torque the springs have to be symmetrically placed.