Assembly instruction 1. Application

These spare kits are usable for round barrel cylinders of series .../8000 (with cylinder sizes from 32 to 320 mm), for profile barrel cylinders of series .P../182000 (with cylinder sizes from 32 to 125 mm) and for round and profile barrel cylinders of series/802000 (with cylinder sizes from 32 to 125 mm).

2. Disassembly of cylinder

- Loosen all tie rod nuts or tie rod screws on both sides of the cylinder and remove them as well as – if applicable – tie rods.
 Remove front end cover.
- Remove piston rod assembly from the barrel.
- Separate barrel and rear end cover.

3. Part replacement

- Disassemble all seals and if applicable – the wear ring using suitable tools and taking care not to damage any sealing surfaces.
- Thoroughly clean all installation spaces for the seals and lightly grease them afterwards.
- Also all new seals have to be lightly greased.
- Fit new seals and wear ring taking care not to damage seals and sealing surfaces. If necessary, a proper assembly tool has to be used.

4. Assembly of cylinder

- Put a thin layer of grease on the inside surface of the barrel and on the piston rod.
- Fill the grease chamber behind the piston rod seal in the front end cover and put a thin layer of grease on the running surface of the piston.
- Fit the barrel to the rear end cover and rotate profile barrel into the desired orientation if applicable.
- Insert piston rod assembly into barrel taking care not to damage any seals.
- Slide front end cover carefully on piston rod in order not to damage the piston rod seal.
- If cylinder has tie rods, screw tie rod nuts onto the short threads of the tie rods and insert them

into an end cover. Put remaining tie rod nuts – if applicable – into second end cover. Tighten tie rod nuts crosswise to the specified torque.

- If cylinder has tie rod screws tighten them crosswise on both end covers to the specified torque.
- Check cylinder for leakage (connection front end cover/rear end cover to barrel, piston rod seal)

5. Required grease:

Use only the grease from the grease package enclosed in this spare kit.

Cylinder diameter ø	Cylinder series	Spares kit	Tightening torque for tie rods (Nm)	Tightening torque for tie rod screws (Nm)
32	/8032, .P/182032,/802032	.QA/8032/00	7,0 9,5	13,6 16,0
40	/8040, .P/182040,/802040	.QA/8040/00	7,0 9,5	13,6 16,0
50	/8050, .P./182050,/802050	.QA/8050/00	13,6 18,4	13,6 18,4
63	/8063, .P/182063,/802063	.QA/8063/00	13,6 18,4	13,6 18,4
80	/8080, .P/182080,/802080	.QA/8080/00	21 28	32 40
100	/8100, .P/182100,/802100	.QA/8100/00	21 28	32 40
125	/8125, .P./182125,/802125	.QA/8125/00	40 54	
160	/8160	.QA/8160/00	106 143	
200	/8200	.QA/8200/00	106 143	
250	/8250	.QA/8250/00	187 253	
320	/8320	.QA/8320/00	298 403	

Figure 1: Disassembly of different cylinder variants



Piston rod seal
 Barrel seal
 Cushioning seal
 Piston seal
 Wear ring

A Check for leakage B Grease chamber









Figure 2: parts to be changed