

# Air Cylinder/With End Lock

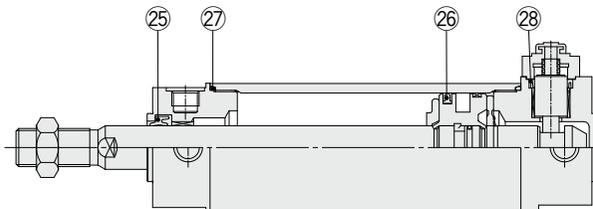
# CBG1 Series

ø20, ø25, ø32, ø40  
ø50, ø63, ø80, ø100

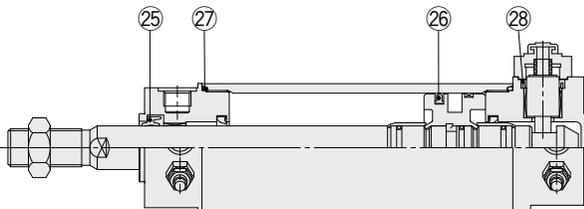
The Replacement Procedure is on p. 378

## Construction

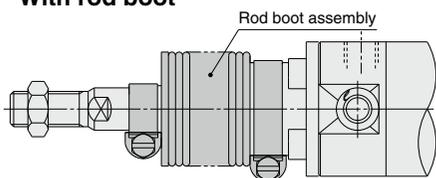
### Head end lock with rubber bumper



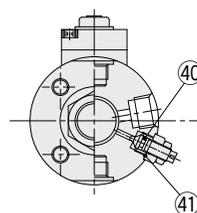
### Head end lock with air cushion



### With rod boot



\* Replaceable with the rod boot assembly  
For details on replacement part numbers, refer to page 244.



\* The numbers correspond with those in the "Construction" of the CBG1 series in the **Web Catalog**.

### Seal Kit List: With Rubber Bumper

No.	Description	Material	Note
25	Rod seal	NBR	
26	Piston seal		
27	Cylinder tube gasket		
28	Lock piston seal		

### Replacement Parts: Seal Kit: With Rubber Bumper

Series	Bore size (mm)	Part no.	Contents
CBG1□N Rubber bumper type	20	CBG1N20-PS	Set of nos.
	25	CBG1N25-PS	25, 26, 27, 28,
	32	CBG1N32-PS	and a grease pack
	40	CBG1N40-PS	

### Locking at both ends

CBG1□N Rubber bumper type	20	CBG1N20-PS-W	Set of nos.
	25	CBG1N25-PS-W	25, 26, 27, 28,
	32	CBG1N32-PS-W	and a grease pack
	40	CBG1N40-PS-W	

Note) Order with a part number for each type and bore size.

\* The seal kit includes a grease pack (10 g).

Order with the following part number when only the grease pack is required.

**Grease pack part no.: GR-S-010 (10 g)**

## Disassembly/Replacement

### ⚠ Caution

#### 1. Do not replace the bushings.

The bushings are press-fit. To replace them, they must be replaced together with the cover assembly.

#### 2. To replace a seal, apply grease to the new seal before installing it.

If the cylinder is put into operation without applying grease to the seal, it could cause the seal to wear significantly, leading to premature air leakage.

#### 3. Cylinders with ø50 or larger bore sizes cannot be disassembled.

When disassembling cylinders with bore sizes ø20 through ø40, grip

### Seal Kit List: With Air Cushion

No.	Description	Material	Note
25	Rod seal	NBR	
26	Piston seal		
27	Cylinder tube gasket		
28	Lock piston seal		
40	Valve seal		
41	Valve retainer gasket		

### Replacement Parts: Seal Kit: With Air Cushion

Series	Bore size (mm)	Part no.	Contents
CBG1□A Air cushion type	20	CBG1A20-PS	Set of nos.
	25	CBG1A25-PS	25, 26, 27, 28,
	32	CBG1A32-PS	40, 41, and a
	40	CBG1A40-PS	grease pack

### Locking at both ends

CBG1□A Air cushion type	20	CBG1A20-PS-W	Set of nos.
	25	CBG1A25-PS-W	25, 26, 27, 28,
	32	CBG1A32-PS-W	40, 41, and a
	40	CBG1A40-PS-W	grease pack

Note) Order with a part number for each type and bore size.

\* The seal kit includes a grease pack (10 g).

Order with the following part number when only the grease pack is required.

**Grease pack part no.: GR-S-010 (10 g)**

the double flat part of either the head cover or the rod cover with a vise and loosen the other side with a wrench or a monkey wrench, etc., and then remove the cover. When re-tightening, tighten approximately 2 degrees more than the original position.

(Cylinders with ø50 or larger bore sizes are tightened with a large tightening torque and cannot be disassembled. If disassembly is required, please contact SMC.)

Disassembly in a locked state, may cause damage to the lock parts, it is recommended to work in the unlocked position.