

# Air Cylinder/Standard Type: Double Acting, Single Rod

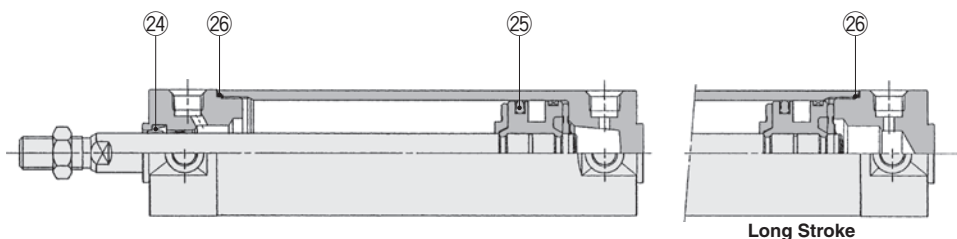
## Series CG1

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

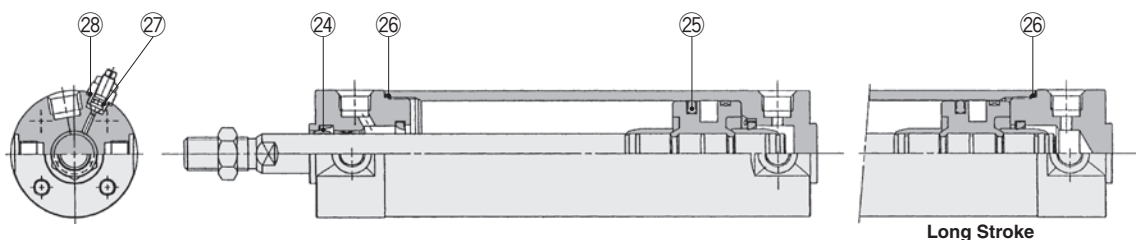
Replacement  
Procedure is  
p.281

### Construction

#### With rubber bumper



#### With air cushion



\* The numbers are the same as the "Construction" of the Best Pneumatics No.2 Series CG1.

### Seal Kit List

No.	Description	Material	Note
24	Rod seal	NBR	
25	Piston seal		
26	Tube gasket		
27	Valve seal		
28	Valve retainer gasket		

### 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 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.)

### Replacement Parts: Seal Kit

Bore size (mm)	Kit no.	Contents
<b>With rubber bumper</b>		
20	CG1N20-PS	Set of left nos. 24, 25, 26.
25	CG1N25-PS	
32	CG1N32-PS	
40	CG1N40-PS	
<b>With air cushion</b>		
20	CG1A20-PS	Set of left nos. 24, 25, 26, 27, 28.
25	CG1A25-PS	
32	CG1A32-PS	
40	CG1A40-PS	

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 needed.

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

# Air Cylinder/Standard Type: Single Acting, Spring Return/Extend

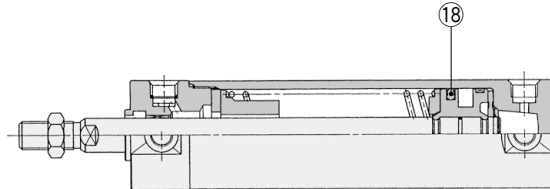
# Series CG1

ø20, ø25, ø32, ø40

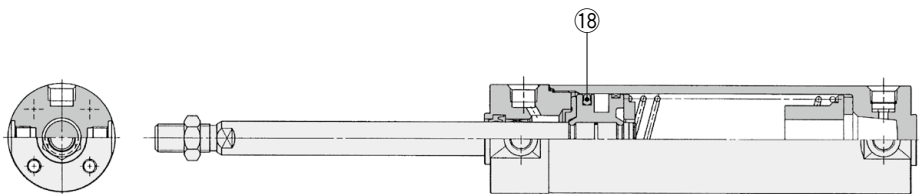
Replacement  
Procedure is  
p.281

## Construction

Single acting, spring return



Single acting, spring extend



\* The numbers are the same as the "Construction" of the Best Pneumatics No.2 Series CG1.

## Seal Kit List

No.	Description	Material	Note
18	Piston seal	NBR	

## 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. Please note that disassembly by the spring reaction force, because it may cover will pop up. When disassembling cylinders, grip 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.

## Replacement Parts: Seal

Bore size (mm)	Kit no.	Contents
20	CG1N20-S-PS	
25	CG1N25-S-PS	
32	CG1N32-S-PS	
40	CG1N40-S-PS	

\* Since the seal kit does not include a grease pack, order it separately.

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

## Single acting, spring extend

\* Replacement parts: Seal kit is the same as the case of standard type single rod (with rubber bumper). Refer to page 18.