

The warranty does not cover malfunctions in products that have been disassembled or reassembled by anyone other than the company.

**Precautions before disassembling the product**  
 The valve will reach a high temperature when used with high temperature fluids.  
 Confirm that the valve temperature has dropped sufficiently before performing work.  
 If touched inadvertently, there is a danger of being burned.  
 1) Shut off the fluid supply and release the fluid pressure in the system.  
 2) When recombining, it is necessary to supply pilot pressure (air).

## 1 Maintenance kits

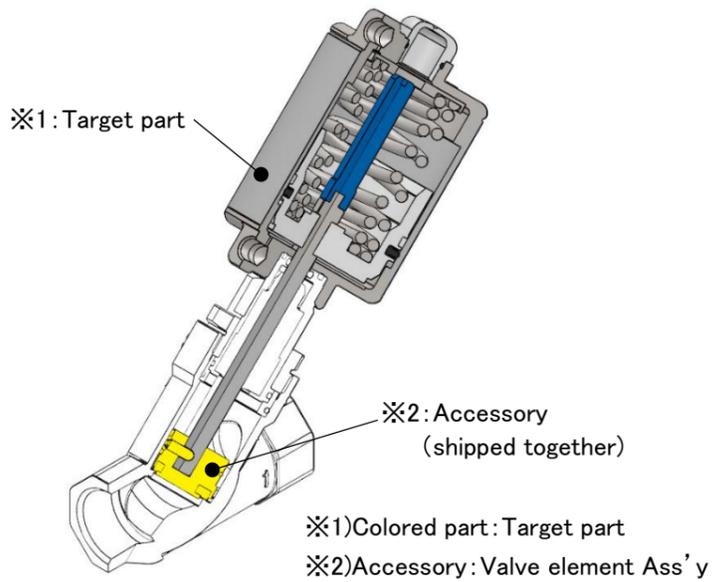
Name: Pilot head Ass'y

How to order

JSB \* 1 - S T \* \* - \* S -KT1

Symbol	Series
1	10
2	20
3	30
4	40
5	50
6	60
7	70

Symbol	Thread type
R	Rc
F	G
N	NPT



## 3 Disassembly and Assembly procedure

### Disassembly procedure

- 1) With minimum pilot pressure applied to the pilot port, loosen the body nut and remove the ※3) main valve kit.
- 2) Use a flat-blade screwdriver or other tool to shift the clamp ring out of the groove and pull out the valve element pin from the valve element Ass'y.
- 3) Remove the valve element Ass'y, shaft seal holder Ass'y, body adapter, and body nut from the main valve kit.

### Assembly procedure

- 1) Install the body nut on the shaft seal holder Ass'y.
- 2) Insert the shaft seal holder Ass'y into the pilot head Ass'y and tighten it with the recommended tighten torque shown in Table-1.
- 3) Install the body adapter to the shaft seal holder Ass'y. (only JSB40,60,70)
- 4) Install the new ※2) valve element Ass'y on the rod of the pilot head Ass'y.
- 5) Insert the valve element pin into the valve element Ass'y and install the clamp ring into the groove of the valve element Ass'y.
- 6) With minimum pilot pressure applied to the pilot port, insert the body into the main valve kit, tighten the body nut with the recommended tighten torque in Table 1.



- 1: Be sure to disassemble and reassemble with the pilot port pressurized to at least the minimum pilot pressure.
- 2: The valve element Ass'y, clamp ring and valve element pin are consumable parts and should be replaced with new ones supplied.

## 2 Disassembly

Maintenance kit: Pilot head Ass'y

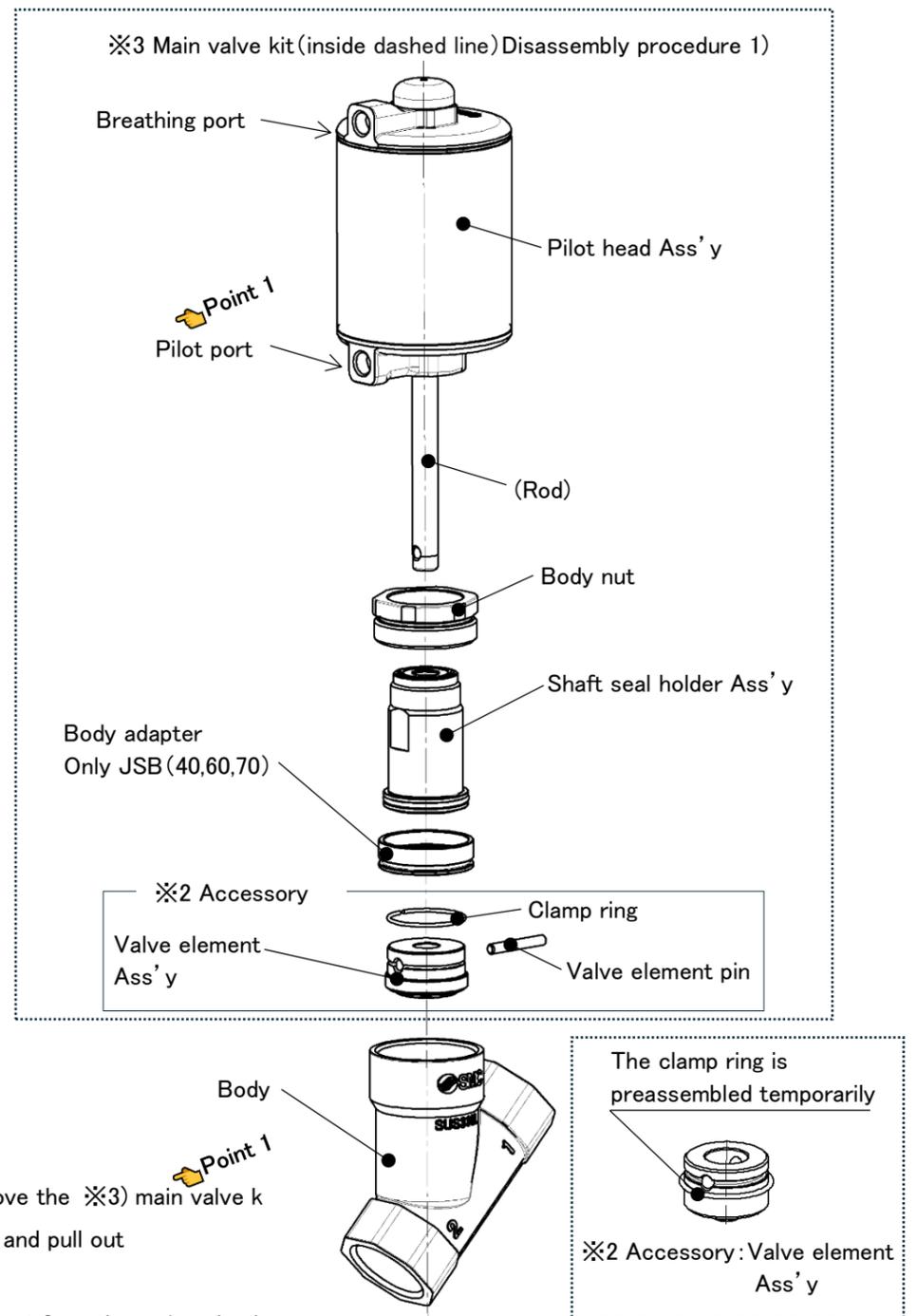


Table-1. Recommended tighten torque N·m

Valve size	Body nut	Shaft seal holder assembly
JSB10	24~26	29~31
JSB20		
JSB30		
JSB40	33~37	48~52
JSB50		
JSB60		
JSB70		

### Precautions after assembly the product

After assembly the product, check for any leakage from the sealing area.

(Sealing area)

- 1) Leakage between body and body nut
- 2) Leakage to the out port

Also, when restarting the valve, please make sure it is safe and then confirm that the valve is working properly.

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**⚠** <Precautions before disassembling the product>  
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 Confirm that the valve temperature has dropped sufficiently before performing work.  
 If touched inadvertently, there is a danger of being burned.  
 1) Shut off the fluid supply and release the fluid pressure in the system.  
 2) When recombining, it is necessary to supply pilot pressure (air).

## 1 Maintenance kits

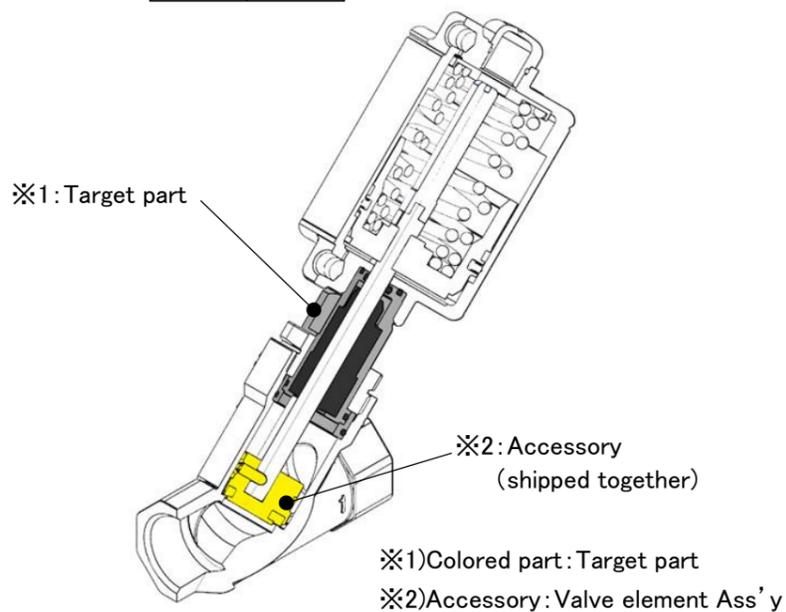
Name: Shaft seal holder Ass'y

How to order

JSB \* 1 - S T \* \* - \* S -KT2

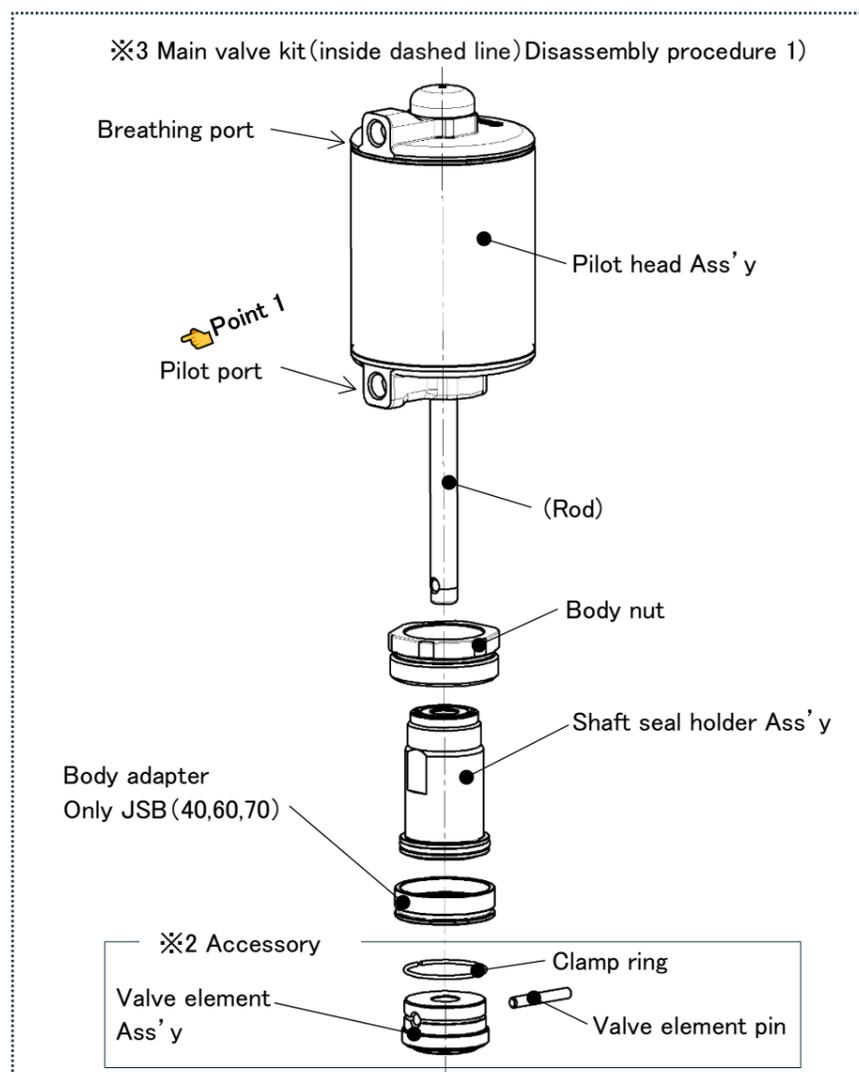
Valve size

Symbol	Series
1	10
2	20
3	30
4	40
5	50
6	60
7	70



## 2 Disassembly

Maintenance kit: Shaft seal holder Ass'y



## 3 Disassembly and Assembly procedure

### Disassembly procedure

- 1) With minimum pilot pressure applied to the pilot port, loosen the body nut and remove the ※3) main valve kit.
- 2) Use a flat-blade screwdriver or other tool to shift the clamp ring out of the groove and pull out the valve element pin from the valve element Ass'y. **Point 2**
- 3) Remove the valve element Ass'y, shaft seal holder Ass'y, body adapter, and body nut from the main valve kit.

### Assembly procedure

- 1) Install the body nut on the shaft seal holder Ass'y.
- 2) Insert the shaft seal holder Ass'y into the pilot head Ass'y and tighten it with the recommended tighten torque shown in Table-1.
- 3) Install the body adapter to the shaft seal holder Ass'y. (only JSB40,60,70)
- 4) Install the new ※2) valve element Ass'y on the rod of the pilot head Ass'y.
- 5) Insert the valve element pin into the valve element Ass'y and install the clamp ring into the groove of the valve element Ass'y. **Point 2**
- 6) With minimum pilot pressure applied to the pilot port, insert the body into the main valve kit, tighten the body nut with the recommended tighten torque in Table 1. **Point 1**

Table-1. Recommended tighten torque N·m

Valve size	Body nut	Shaft seal holder assembly
JSB10	24~26	29~31
JSB20		
JSB30		
JSB40	33~37	48~52
JSB50		
JSB60		
JSB70		

- Point 1** 1: Be sure to disassemble and reassemble with the pilot port pressurized to at least the minimum pilot pressure.  
 2: The valve element Ass'y, clamp ring and valve element pin are consumable parts and should be replaced with new ones supplied.

**⚠** <Precautions after assembly the product>  
 After assembly the product, check for any leakage from the sealing area.  
 (Sealing area)  
 1) Leakage between body and body nut  
 2) Leakage to the out port  
 Also, when restarting the valve, please make sure it is safe and then confirm that the valve is working properly.

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**⚠** <Precautions before disassembling the product>  
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 Confirm that the valve temperature has dropped sufficiently before performing work.  
 If touched inadvertently, there is a danger of being burned.  
 1) Shut off the fluid supply and release the fluid pressure in the system.  
 2) When recombining, it is necessary to supply pilot pressure (air).

## 1 Maintenance kits

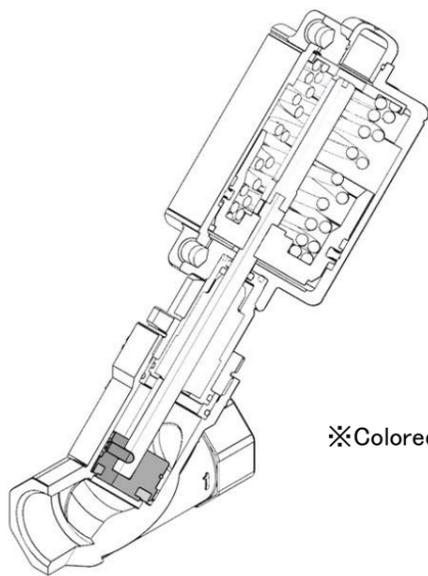
Name: Valve element Ass'y

How to order

JSB \* 1 - S T \* \* - \* S -KT3

Valve size

Symbol	Series
1	10
2	20
3	30
4	40
5	50
6	60
7	70



※Colored part: Target part

## 3 Disassembly and Assembly procedure

### Disassembly procedure

- 1) With minimum pilot pressure applied to the pilot port, loosen the body nut and remove the ※1) main valve kit.
- 2) Use a flat-blade screwdriver or other tool to shift the clamp ring out of the groove and pull out the valve element pin from the valve element Ass'y.

### Assembly procedure

- 1) Install valve element Ass'y on the rod of the pilot head Ass'y.
- 2) Insert the valve element pin into the valve element Ass'y and install the clamp ring into the groove of the valve element Ass'y.
- 3) With minimum pilot pressure applied to the pilot port, insert the body into the main valve kit, **Point 1** tighten the body nut with the recommended tighten torque in Table 1.



**Point 1**: Be sure to disassemble and reassemble with the pilot port pressurized to at least the minimum pilot pressure.

**⚠** <Precautions after assembly the product>  
 After assembly the product, check for any leakage from the sealing area.  
 (Sealing area)  
 1) Leakage between body and body nut  
 2) Leakage to the out port  
 Also, when restarting the valve, please make sure it is safe and then confirm that the valve is working properly.

## 2 Disassembly

Maintenance kit: Valve element Ass'y

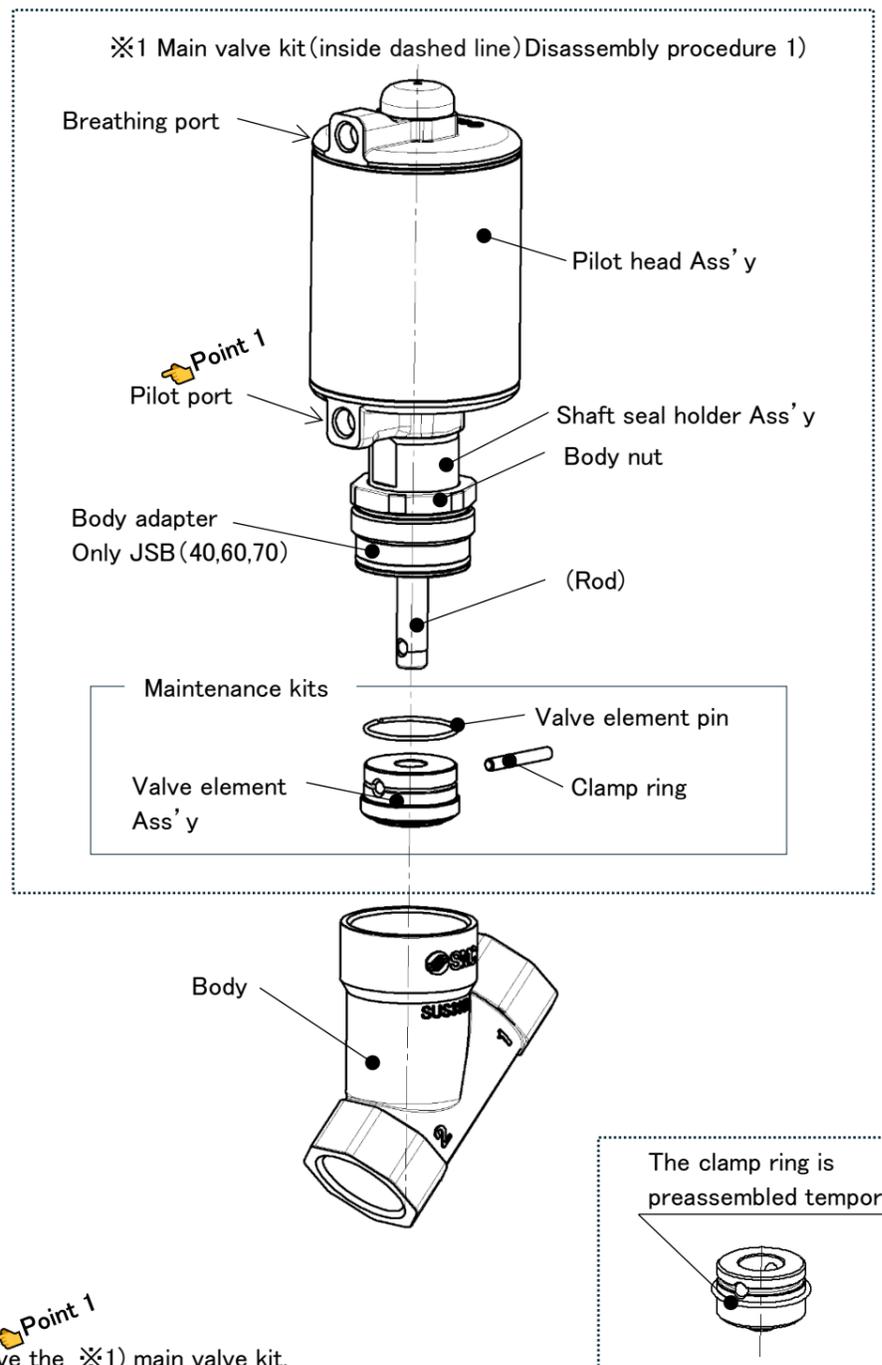


Table-1. Recommended tighten torque N·m

Valve size	Body nut	Shaft seal holder assembly
JSB10	24~26	29~31
JSB20		
JSB30		
JSB40	33~37	48~52
JSB50		
JSB60		
JSB70		

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 **Precautions before disassembling the product**  
 The valve will reach a high temperature when used with high temperature fluids.  
 Confirm that the valve temperature has dropped sufficiently before performing work.  
 If touched inadvertently, there is a danger of being burned.  
 1) Shut off the fluid supply and release the fluid pressure in the system.  
 2) When recombining, it is necessary to supply pilot pressure (air).

## 1 Maintenance kits

Name: Body

How to order

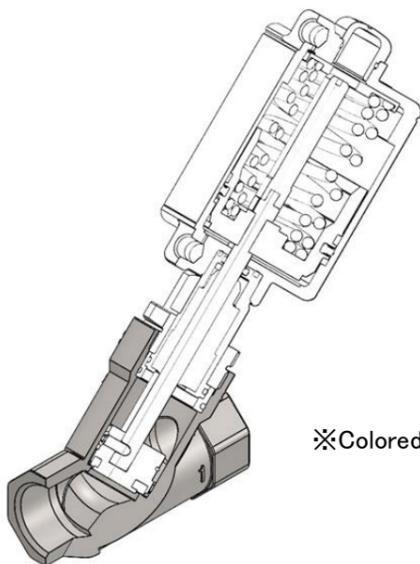
JSB \* 1 - S T \* \* - \* S -KT4

Valve size

Symbol	Series
1	10
2	20
3	30
4	40
5	50
6	60
7	70

Thread type

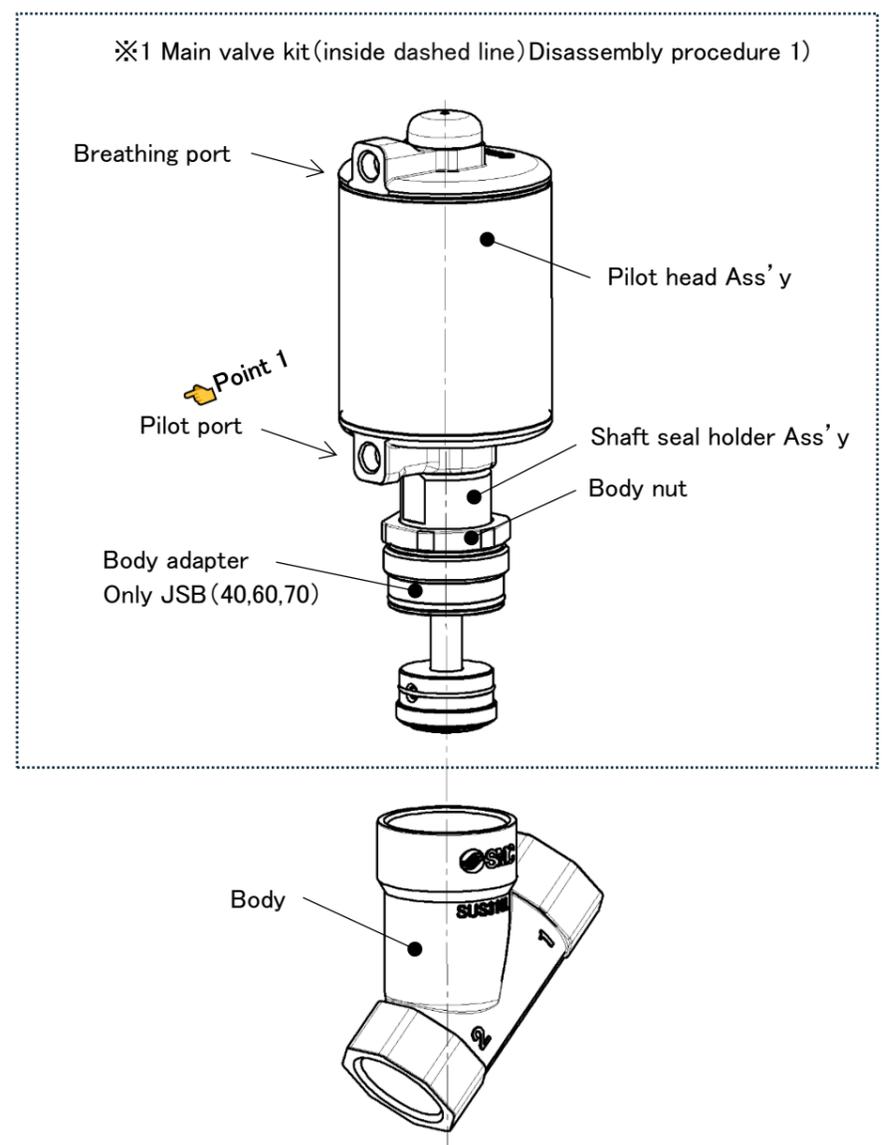
Symbol	Thread type
R	Rc
F	G
N	NPT



※Colored part: Target part

## 2 Disassembly

Maintenance kit: body



## 3 Disassembly and Assembly procedure

### Disassembly procedure

1) With minimum pilot pressure applied to the pilot port, loosen the body nut and remove the ※1) main valve kit.

### Assembly procedure

1) With minimum pilot pressure applied to the pilot port, insert the body into the main valve kit, tighten the body nut with the recommended tighten torque in Table 1.

 1: Be sure to disassemble and reassemble with the pilot port pressurized to at least the minimum pilot pressure.

Table-1. Recommended tighten torque N·m

Valve size	Body nut
JSB10	24~26
JSB20	
JSB30	
JSB40	
JSB50	33~37
JSB60	
JSB70	

 **Precautions after assembly the product**  
 After assembly the product, check for any leakage from the sealing area.  
 (Sealing area)  
 1) Leakage between body and body nut  
 2) Leakage to the out port  
 Also, when restarting the valve, please make sure it is safe and then confirm that the valve is working properly.

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**!** <Precautions before disassembling the product>  
The valve will reach a high temperature when used with high temperature fluids.  
Confirm that the valve temperature has dropped sufficiently before performing work.  
If touched inadvertently, there is a danger of being burned.  
1) Shut off the fluid supply and release the fluid pressure in the system.  
2) When recombining, it is necessary to supply pilot pressure (air).

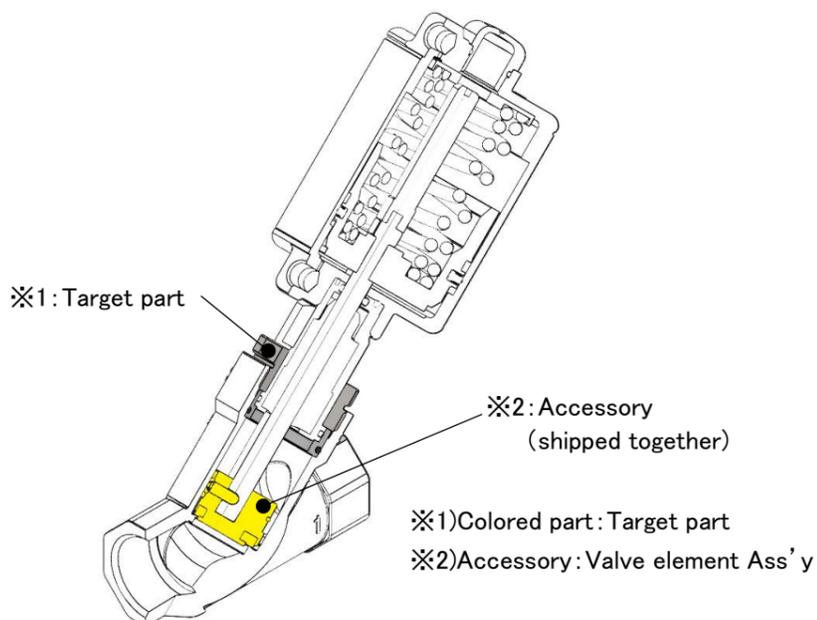
## 1 Maintenance kits

Name: Body nut  
How to order

JSB \* 1 - S T \* \* - \* S -KT5

• Valve size

Symbol	Series	Body nut	Body adapter	o-ring
1	10	○	-	-
2	20	○	-	-
3	30	○	-	-
4	40	○	○	○
5	50	○	-	-
6	60	○	○	○
7	70	○	○	○



## 3 Disassembly and Assembly procedure

### Disassembly procedure

- 1) With minimum pilot pressure applied to the pilot port, loosen the body nut and remove the ※3) main valve kit.
- 2) Use a flat-blade screwdriver or other tool to shift the clamp ring out of the groove and pull out the valve element pin from the valve element Ass'y. **Point 2**
- 3) Remove the valve element Ass'y, body adapter and body nut from the main valve kit.

### Assembly procedure

- 1) Install the body adapter to the shaft seal holder Ass'y. (only JSB40,60,70)
- 2) Install the new ※2) valve element Ass'y on the rod of the pilot head Ass'y.
- 3) Insert the valve element pin into the valve element Ass'y and install the clamp ring **Point 2** into the groove of the valve element Ass'y.
- 4) With minimum pilot pressure applied to the pilot port, insert the body into the main valve kit, **Point 1** tighten the body nut with the recommended tighten torque in Table 1.

- Point 1**
- 1: Be sure to disassemble and reassemble with the pilot port pressurized to at least the minimum pilot pressure.
  - 2: The valve element Ass'y, clamp ring and valve element pin are consumable parts and should be replaced with new ones supplied.

## 2 Disassembly

Maintenance kit: Body nut

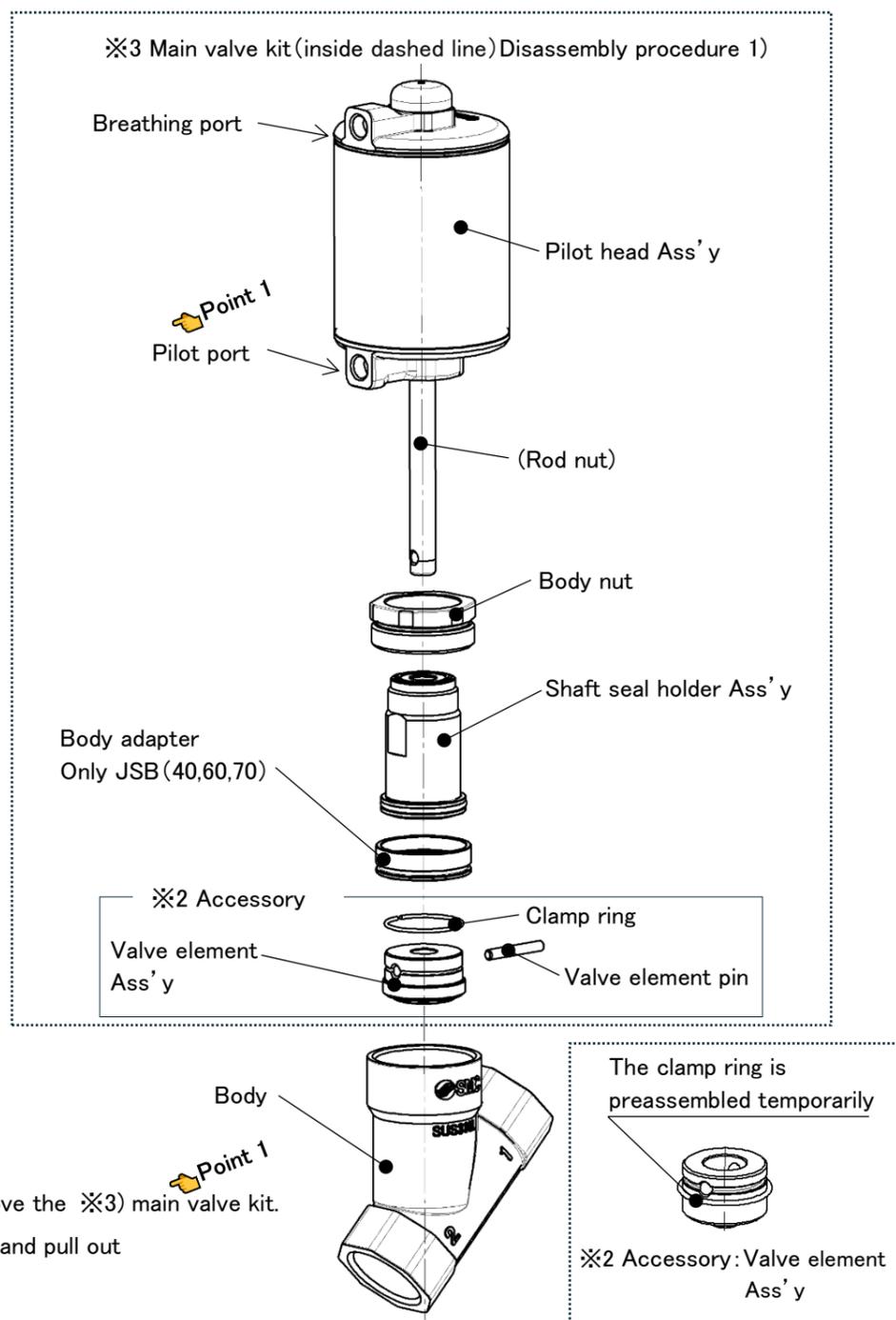


Table-1. Recommended tighten torque N·m

Valve size	Body nut	Shaft seal holder assembly
JSB10	24~26	29~31
JSB20		
JSB30		
JSB40	33~37	48~52
JSB50		
JSB60		
JSB70		

**!** <Precautions after assembly the product>  
After assembly the product, check for any leakage from the sealing area.  
(Sealing area)  
1) Leakage between body and body nut  
2) Leakage to the out port  
Also, when restarting the valve, please make sure it is safe and then confirm that the valve is working properly.

## JSB series Replacement procedure for Maintenance Kits ⑥ Indicator cover

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 The valve will reach a high temperature when used with high temperature fluids.  
 Confirm that the valve temperature has dropped sufficiently before performing work.  
 If touched inadvertently, there is a danger of being burned.  
 Shut off the fluid supply and release the fluid pressure in the system.

### 1 Maintenance kits

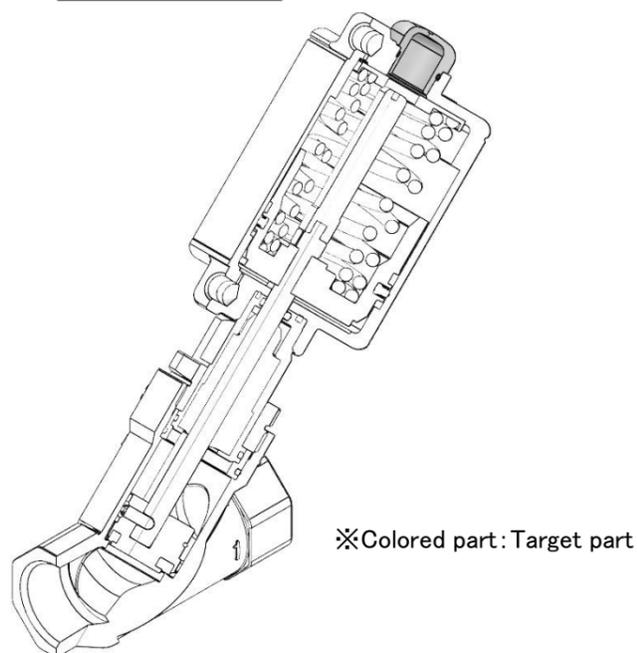
Name: Indicator cover

How to order

JSB \* 1 - S T \* \* - \* S -KT6

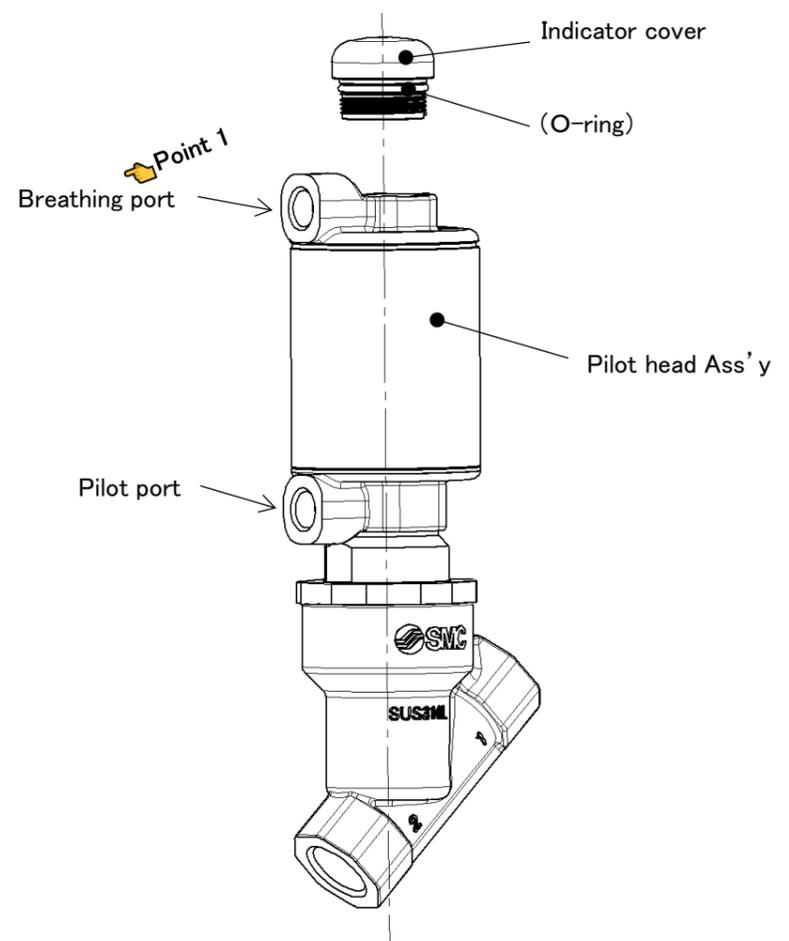
● Valve size

Symbol	Series
1	10
2	20
3	30
4	40
5	50
6	60
7	70



### 2 Disassembly

Maintenance kit: Indicator cover



### 3 Disassembly and Assembly procedure

#### Disassembly procedure

- 1) Remove the indicator cover from the pilot head ass'y.

#### Assembly procedure

- 1) Tighten the indicator cover to the pilot head Ass'y. (2~3 N·m)



- 1) Tighten the indicator cover to the pilot head Ass'y. (2~3 N·m)

 **〈Precautions after assembly the product〉**  
 After assembly the product, check for any leakage from the sealing area.  
 (Sealing area)

- 1) Leakage between body and body nut
- 2) Leakage to the out port

Also, when restarting the valve, please make sure it is safe and then confirm that the valve is working properly.

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**!** <Precautions before disassembling the product>  
The valve will reach a high temperature when used with high temperature fluids.  
Confirm that the valve temperature has dropped sufficiently before performing work.  
If touched inadvertently, there is a danger of being burned.  
1) Shut off the fluid supply and release the fluid pressure in the system.  
2) When recombining, it is necessary to supply pilot pressure (air).

## 1 Maintenance kits

Name: Main valve kit

How to order

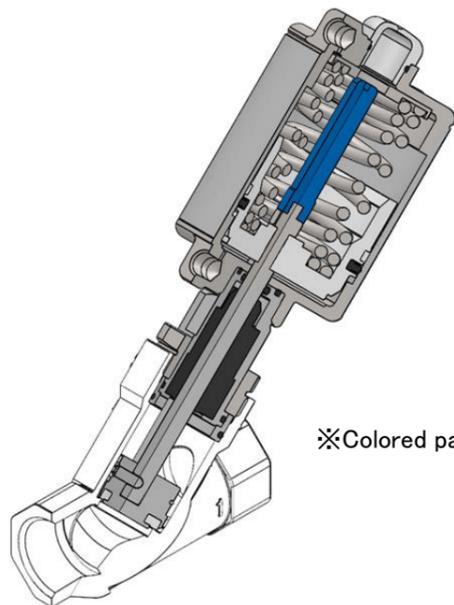
JSB \* 1 - S T \* \* - \* S -KT7

Valve size

Symbol	Series
1	10
2	20
3	30
4	40
5	50
6	60
7	70

Thread type

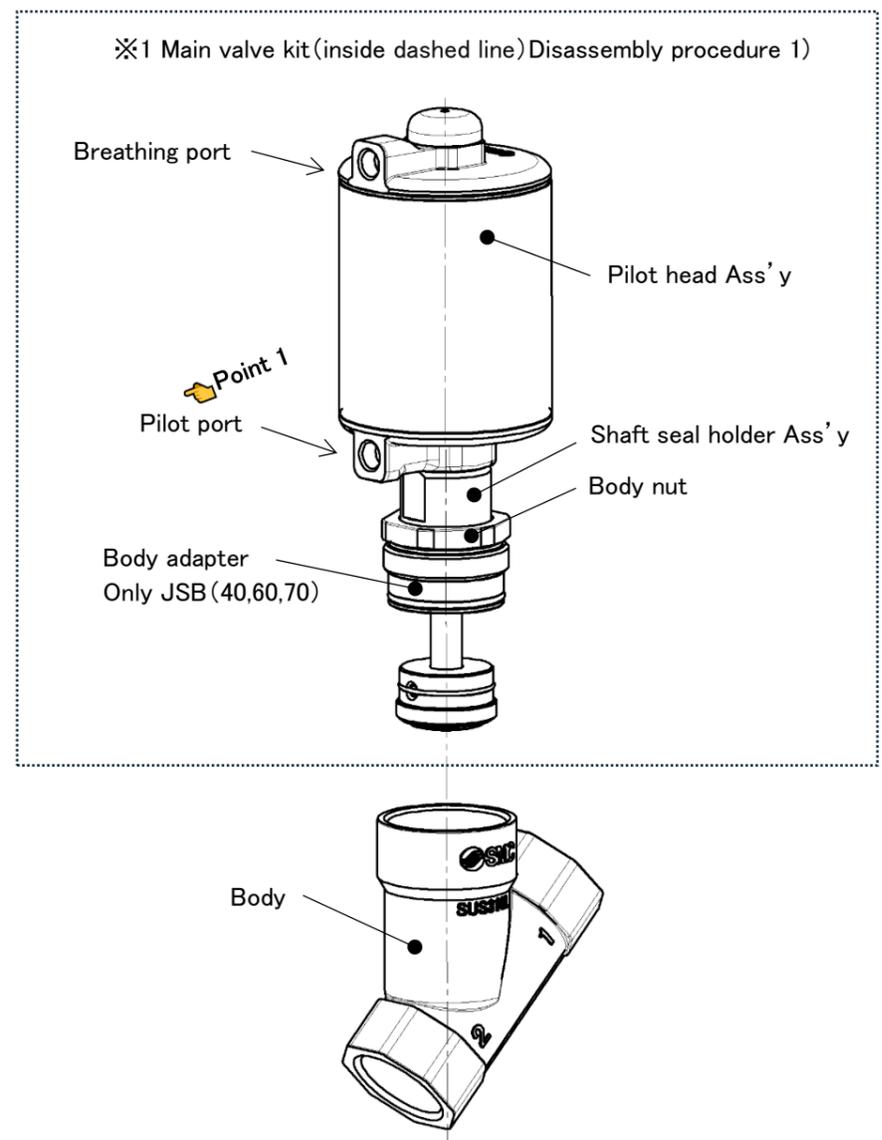
Symbol	Thread type
R	Rc
F	G
N	NPT



※Colored part: Target part

## 2 Disassembly

Maintenance kit: Main valve kit



## 3 Disassembly and Assembly procedure

### Disassembly procedure

1) With minimum pilot pressure applied to the pilot port, loosen the body nut and remove the ※1) main valve kit. **Point 1**

### Assembly procedure

1) With minimum pilot pressure applied to the pilot port, insert the body into the main valve kit, **Point 1** tighten the body nut with the recommended tighten torque in Table 1.

**Point 1** 1: Be sure to disassemble and reassemble with the pilot port pressurized to at least the minimum pilot pressure.

Table-1. Recommended tighten torque N·m

Valve size	Body nut
JSB10	24~26
JSB20	
JSB30	
JSB40	
JSB50	33~37
JSB60	
JSB70	

**!** <Precautions after assembly the product>  
After assembly the product, check for any leakage from the sealing area.  
(Sealing area)  
1) Leakage between body and body nut  
2) Leakage to the out port  
Also, when restarting the valve, please make sure it is safe and then confirm that the valve is working properly.