

INSTRUCTION MANUAL

FOR

REGULATOR
MODEL NO. B2019

Please read this operation manual carefully before using this product, particularly the section describing safety.

Retain this operation manual with the product for further consultation whenever necessary.



CKD Corporation

For Safety Use

To use this product safely, basic knowledge of pneumatic equipment, including materials, piping, electrical system and mechanism, is required (to the level pursuant to JIS B 8370 Pneumatic System Rules).

We do not bear any responsibility for accidents caused by any person without such knowledge or arising from improper operation.

Our customers use this product for a very wide range of applications, and we cannot keep track of all of them. Depending on operating conditions, the product may fail to operate to maximum performance, or cause an accident. Thus, before placing an order, examine whether the product meets your application, requirements, and how to use it.

This product incorporates many functions and mechanisms to ensure safety. However, improper operation could result in an accident. To prevent such accidents, read this instruction manual carefully for proper operation.

- 1 -

2-8) The adjusting knob may be locked and becomes unable to turn further, when it is turned.
When setting the pressure, pull up the adjusting knob to check that it is not locked first. Then turn the adjusting knob.

2-9) In case of fitting a panel, drill holes of 31 dia. ones.

(3) Cautions for maintenance

3-1) Disassembling procedure

- a) Stop the air supply to the regulator.
- b) Release the locked adjusting knob and turn it counter-clockwise fully to discharge the air.
- c) Unscrew and remove four screws ② and take the bonnet assembly ① .
- d) Remove the spring ③ and the diaphragm assembly ⑤ .
- e) After removed the valve seat ⑨ , also remove the valve assembly ⑪ and the spring ⑬ .

3-2) Either the pressure can not be made or the pressure drop becomes peculiar, clean the gasket ⑩ , O-ring ⑫ and valve assembly ⑪ and check them for damage.

3-3) If the air leaks from the relief port, clean the diaphragm assembly ⑤ and disc seal and check them for damage.

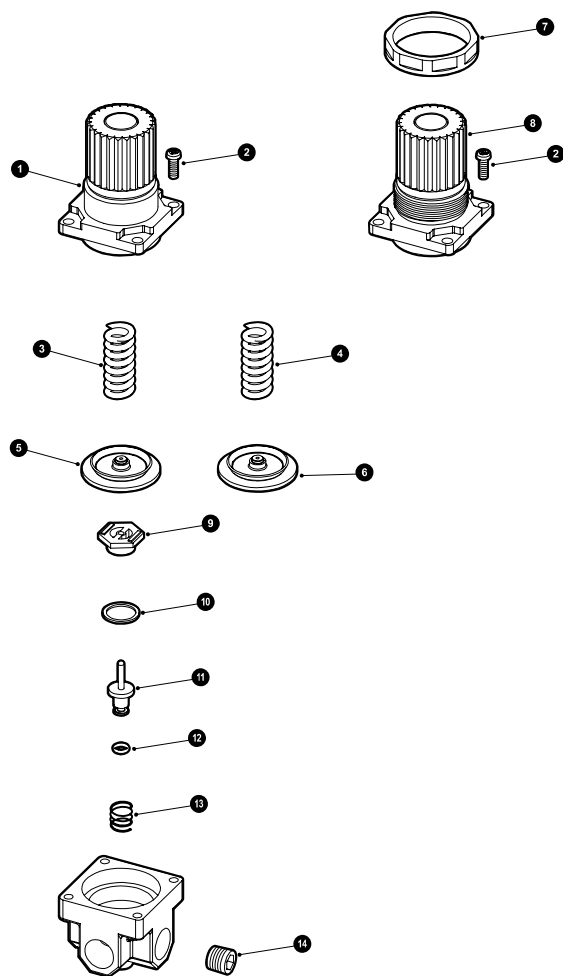
3-4) When reassembling, give due consideration to the following items.

- a) Tighten the valve seat ⑨ upto the 0.8 N·m torque. Also the screw shall be tightened to the 2.2 ~ 2.7 N·m torque.
- b) Apply Daphnie grease MP No1 to the gasket ⑩ and O-ring ⑫ .
- c) The bonnet assembly ① is not able to disassemble.



Regulator
B2019 Series

■ B2019 Series Parts
Expanded View



Part name	Part model No.	No.	Quantity
Consumable parts kit For standard	B2019-KIT		1 each
Consumable parts kit (N) For non-relief	B2019-KIT-N		1 each
Knob cover kit	B2019-KNOB		1
			4
Knob/cover kit (P) For panel mount	B2019-KNOB-P		4
			1
			1
Pressure adjustment spring For standard	B2019-SPRING		1
Pressure adjustment spring (L) For low pressure	B2019-SPRING-L		1
Diaphragm assembly For standard	B2019-DIAPHRAGM-ASSY		1
Diaphragm assembly (N) For non-relief	B2019-DIAPHRAGM-ASSY-N		1
Valve assembly	B2019-VALVE-ASSY		1 each
Metal plug (with sealant) R 1/8 * 1 set includes 10 pcs.	FRL-PLUG-R1/8		10
Packing box/label	B2019-PAC-BOX-KIT	-	1