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CSM-0023-A

SM-2100

INSTRUCTION MANUAL

FOR

PRECISION REGULATOR

MODEL NO. 2100

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 operation manual carefully for proper operation.

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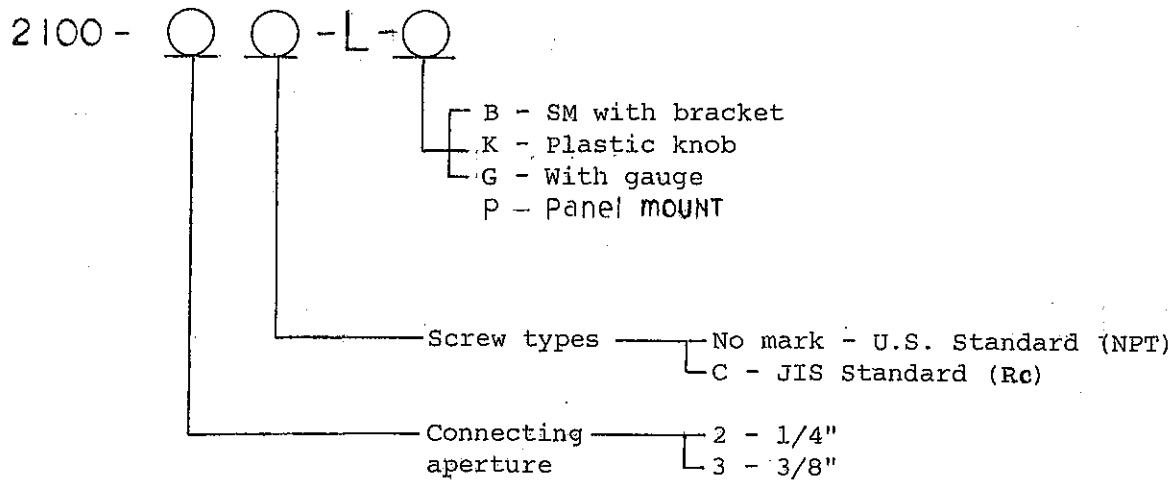
Model Number:



Thank you very much for using CKD products.
CKD products are all produced under strict quality control to ensure safety.
For effective use of your CKD precision regulator, carefully read through the items of cautions for installation and maintenance listed below.

1. Cautions for Installation

1-1 See to it, at the time of installation, that the air flows in the direction of arrow mark on the upper (top) lid of the

1-2 Any mounting style can be possible.

1-3 Do not use the precision regulator, at a place with the ambient temperature exceeding 65°C.

1-4 See to it that the primary pressure does not exceed 1.0 MPa.

1-5 Attach the pressure gauge to an easily visible place, and close the hole on the opposite side with a plug.

1-6 The secondary pressure increases by turning the adjusting screw clockwise and decreases by turning it counter-clockwise.

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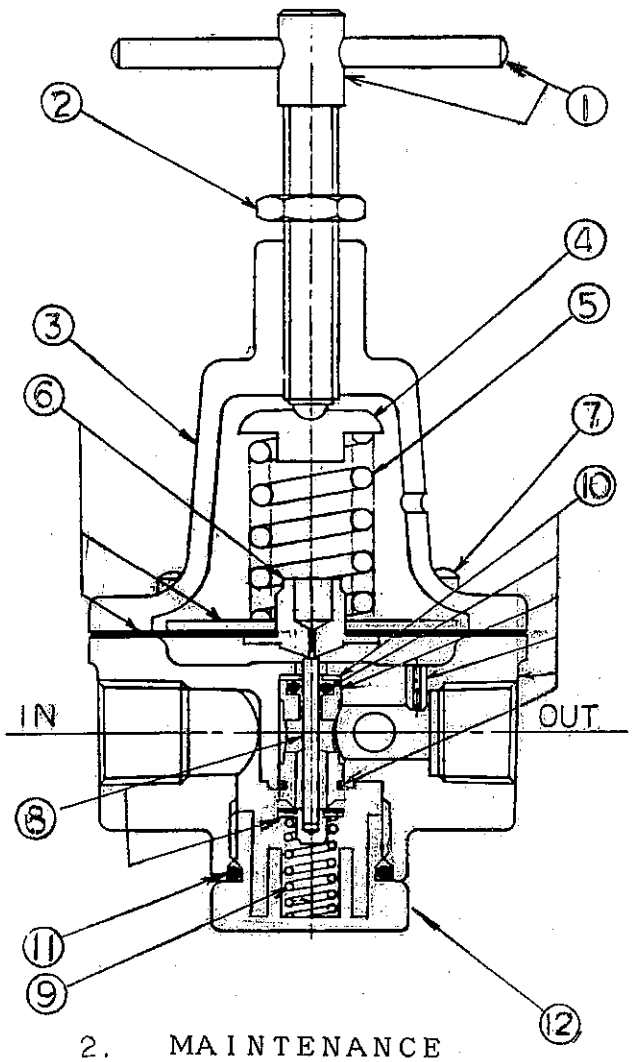
Table of Parts List



No.	Part Name	Part No.	Q'ty	Remarks
1	Adjusting screw	15-5462	1	
2	Nut	41-5033	1	
3	Cover	06-5140	1	
4	Spring disc	30-5429	1	
5	Spring	70-5026	1	
6	Diaphargam ass'y	15-5962	1	consumable
7	Screw	45-086	4	
8	Valve ass'y	15-5870	1	consumable
9	Spring	70-5062	1	
10	Body ass'y	15-5960	1	
11	o-ring	78-069	1	consumable
12	Bottom plug	16-104	1	

2. MAINTENANCE

2-1 Occasionally remove bottom plug and clean plug, body and valve seat.

2-2 TO DISASSEMBLE -- Shut off air to regulator and vent air line on both sides of regulator. Turn adjusting screw counterclockwise to relieve compression on the spring. Remove screws, cover, spring, and spring disk. Diaphragm assembly can now be removed. By removing bottom plug and spring, the valve can be removed from the bottom of the regulator.

2-3 IF UNIT WILL NOT REGULATE TO PRESSURE NEEDED, OR IF PRESSURE BECOMES EXCESSIVE -- remove bottom plug, spring and valve. Clean and check o-ring, valve stem and valve seat for wear or damage. Replace worn or damaged parts.

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Option Parts Diagram

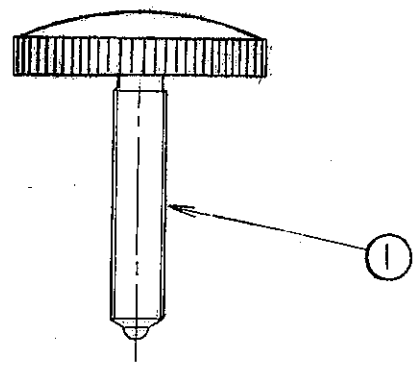

Fig. 2 Plastic knob

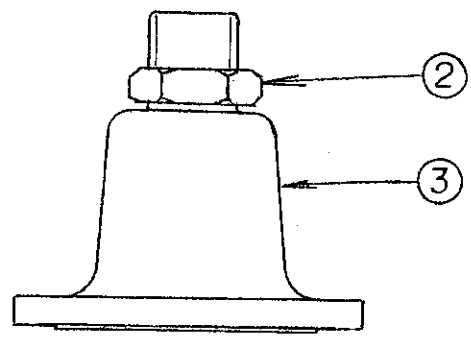

Fig. 3 Panel mount

Table of Option Parts

No.	Part Name	Part No.	Q'ty	Remarks
1	Plastic knob	15-5464	1	
2	Panel mount nut	30-5788	1	
3	Cover	06-5142	1	