



CSM
-092-A/1

OPERATIONAL MANUAL

SELEX F.R.L. Series Exhaust Valve

V1000

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.

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.

Thank you for purchasing the products of CKD.

Read this manual well for effectual opetation.

INDEX

V1000

CSM-092-A

1. PRODUCT

1-1 Specifications

1-2 External dimensions

2. CAUTIONS

3. OPERATION

3-1 Shifting to air supplying operation
(from the state of air exhaust)

3-2 Shifting to air exhausting operation
(from the state of air supply)

4. INSTALLATION

4-1 Piping

4-2 Fitting

5. MAINTENANCE

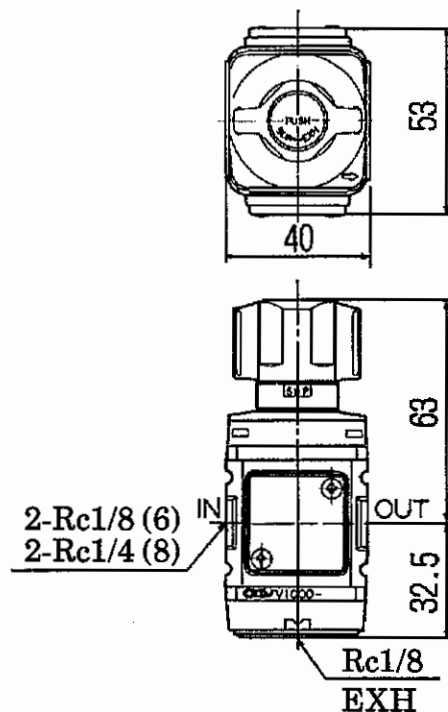
6. MODEL CODING

1. PRODUCT

1-1. Specifications

Model Code		V1000	
Item		6	8
Media		Compressed air	
Max. operating pressure	MPa {kgf/cm ² }	1.0 {10.2}	
Proof pressure	MPa {kgf/cm ² }	1.5 {15.3}	
Media temperature range	°C	5~60	
Control lever turning angle		90°	
Operating force	Pressing force N	18	
	Turning torque N·m	0.5	
Valve seat leakage	cm ³ /min ANR	10	
External leakage	cm ³ /min ANR	10	
Port size. (Rc)	IN & OUT	1/8	1/4
	EXH	1/8	
Weight of Product kg		0.16	
Effective sectional area {mm ² }	IN→OUT	15	18
	OUT→EXT	5	

1-2. External dimensions



2. CAUTIONS

- 1) Avoid its installation within area as such;
 - a) as ambient temperature expected to rise higher than 60°C
 - b) as the ambience with solvent evaporation or with direct sun light.
 - c) as the ambience of much spatter.
- 2) So design the piping as to prevent an excessive tension to it or excessive load moment.
- 3) Exhaust port is for silencer mounting, exclusively.

3. OPERATION

3-1. Shifting to Supply operation (from the state of exhaust)

Press the knob to release locking and turn it 90° clockwise (Refer to Fig.1.)

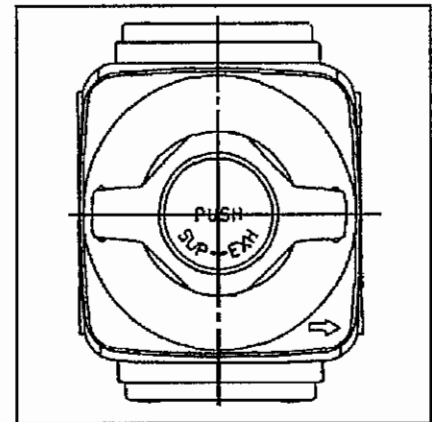


Fig. 1

3-2. Shifting to Exhaust operation (from the state of supply)

Turn the knob 90° counterclockwise.
(Refer to Fig.2.)

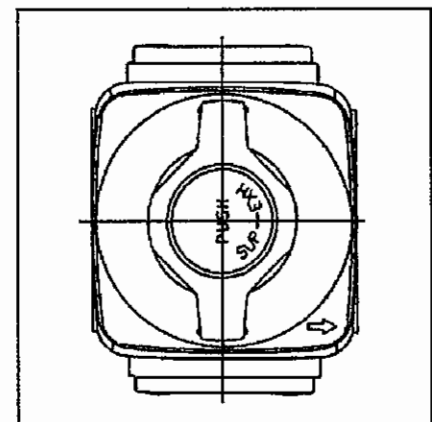


Fig. 2

4. INSTALLATION

4-1. Plumbing

- 1) Install this product so as the air flow matches to the arrow mark casted in the body.
- 2) Prevent using the product with residual pressure discharge port smaller than the diameter of overall air pipes.

4-2. Installation

- 1) Install it to keep knob end atop as well as exhaust port at bottom.
- 2) Provide an ample room of more than 60mm above the knob as well as below the bottom for later maintenance service tools.

5. MAINTENANCE

- 1) Air flows from INLET port to OUTLET port when the knob is turned parallel to air flow line.
Air in the chamber of OUTLET port is discharged through Exhausting port when the knob is turned perpendicular to air flow line.
- 2) At the Exhaust port, PT female thread (Rc1/8) is prepared for a silencer. Install no other than a silencer.
The installation of the silencer fastens up 1N·m to the standard and spares them below.
(The degree to fasten up in the person interlude)
- 3) Contact with the nearest sales company, in the event than either air keeps exhausting in the state of air OUT or air keeps exhausting much through Exhaust port in the state of air Supply.
(A foreign particle is suspected being caught on the valve seat or at O-ring.)
- 4) It is unsuitable to disassemble this FRL.

6. MODEL CODING

