

Relief Valve

Model: RBF- /

INSTRUCTION MANUAL

<Call to:>
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<Description>

Application

Semiconductor, medicals, and chemical industry related devices.

Features

- This product is a pressure control relief valve, which opens to release pressure from a tube when the pressure in the tube exceeds a certain value.
- The value can be specified according to your application

<Before You Use>

⚠ WARNING

Confirm the compatibility of the type of fluid to be used and the material of the part in contact with fluids before using this product.
 Before using this product, carefully read this manual to learn the correct usage of this product.
 Keep this manual at hand to see it any time you need.
 Follow the correct usage of this product specified in this manual.
 Comply with the warnings or cautions described in this manual.

<About Instruction Manual>

The information described in this manual is subject to change without prior notice, due to improvements of product in performance and/or functionality.
 No parts of this manual may be reproduced or utilized in any form or by any means.
 Please call Surpass Industry any time you lose this manual.
 Every effort was made to ensure that all information included in this manual were complete and accurate at the time of printing. If you have any point of doubt, errors, and omissions, please contact Surpass Industry.

Important Safety Instructions

<About Marks Used>

The meanings of the marks, such as WARNING and CAUTION, used in this manual are described as follows.

	Indicates a potentially hazardous situation that, if not avoided, could result in user death or serious injury.
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	Provides important notices and indications to operate the product correctly.
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	Indicates a potentially hazardous situation that, if not avoided, could result in user injury or property damage accidents.
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1 . Specifications

- Operating relief pressure range
 - RBF- : 50 ~ 400kPa
 - RBF- -0.5 : 100 ~ 500kPa
- Operating fluid pressure
 - RBF- : 0 ~ 500kPa
 - RBF- -0.5 : 0 ~ 600kPa
- Operating environment temperature : 5 ~ 60
- Operating fluid temperature : 5 ~ 70
- Available fluid : Gas or liquids
- Wetted Parts : PTFE, PFA
- Housing Material : PFA

	Never use this product for dusty fluids which prevent the normal operation of the valve. When using slurry fluids, be careful not to let particles deposit on the valve.
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2 . Tubing

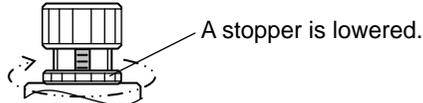
For applications of the connecting part, refer to a brochure or an instruction manual provided with your connecting part.

⚠ WARNING

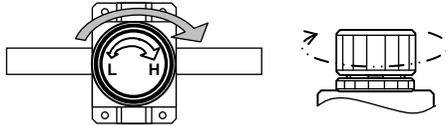
When mounting the valve, fix it firmly by four mounting holes (4.5) to prevent it from falling.
 Do not tighten excessively when mounting the valve on the four mounting holes. Excessive tightening may cause damage to the threads.
 Connect the tube without any moment or tension to bend the joint portion. Doing so may result in abnormal operation.
 Do not use this product in a place that could have vibration. Doing so may result in abnormal operation.
 Check the flow direction indicator () imprinted on the main unit for correct setting of IN and OUT. Reverse tubing may cause a failure in operation.
 This product is a precision machining device. Never decompose or alter it. Doing so may cause a failure in operation, resulting in a personal injury or damage to your property.

3 . Usage (Setting Relief Pressure)

Wind down the stopper to its lower limit (On the factory setting, the stopper is positioned at "3").

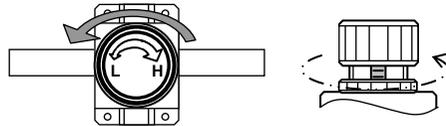


Turn the knob at maximum to the H direction.

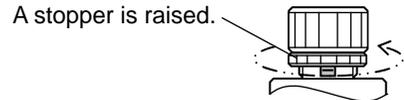


From the IN port, apply pressure at the specified value.

Carefully turn the knob in the L direction until the fluid start flowing from the OUT port.



When setting of the relief pressure is completed, fix the knob using a stopper.



Use the scale label attached on the main unit as the rough indication of relief pressure value. The scale on the sticker is not exactly the same as the relief pressure.

CAUTION	• Do not use this product as a backflow prevention valve.
	• Apply the pressure to the inside of tube on trial to make sure that the connecting part has no leakage before starting its usage.

4 . Warranty

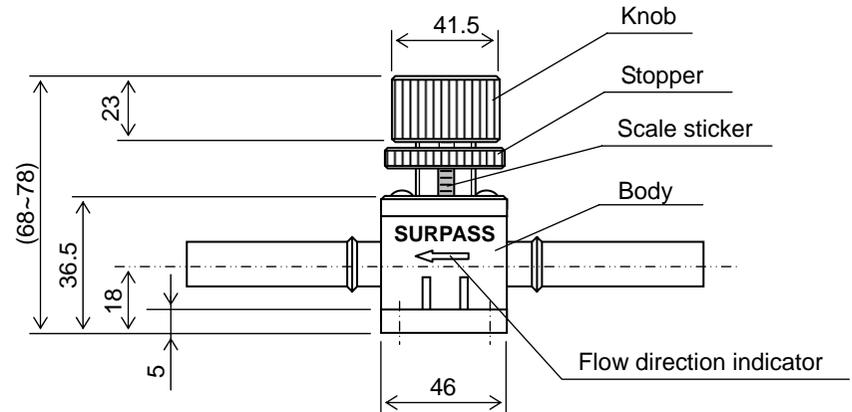
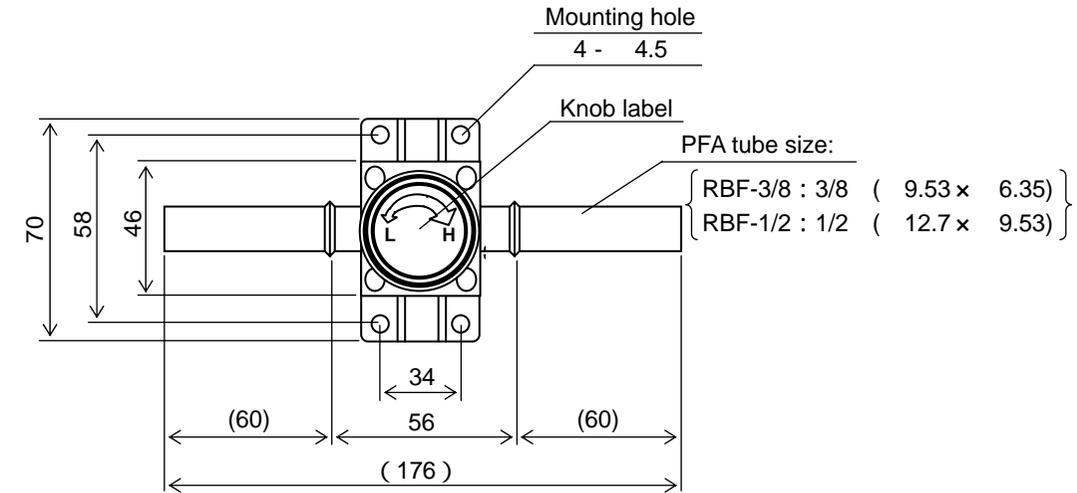
The warranty runs for one year after the day when Surpass Industry products are delivered from Surpass factory in Japan. In case Surpass Industry should agree in writing that the defects in performance or material were caused by faulty design or workmanship of Surpass Industry, replacement products will be supplied free of charge. This warranty shall not be applied to any defects caused by misuse, alteration, neglectful treatment, and neglect of our recommendations or instructions.

In addition, we are not be liable to any direct or consequential loss, damage, and personal injury due to an unauthorized usage in combination with other products and an improper usage outside of the specifications. Our product warranty shall be limited to replacement of product.

Replacement with expense to the purchaser shall be applied to the followings:

- Any defective products caused by usage that is not described in the Instruction Manual.
- Any defective products caused by neglectful treatment.
- Any defective products caused by decomposition, alteration, and improper adjustment or repair.
- Any defects of products caused by acts of God including natural disaster or fires.
- Consumables and accessories.

<Outside Dimensions and Part Designations>



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