

Model USE1000 One-touch Connector for power tote RoHS2



USE1000



Features

- One-touch connection method makes easier to release liquid ever.
- This connector have structure to prevent liquid drop when detaching.
- Chemicals can be pulled out vertically.
- The dust-proof cap provided with the container can be used as it is.

Models

- Container side plug for liquid

USE1000-P-Pr-ST

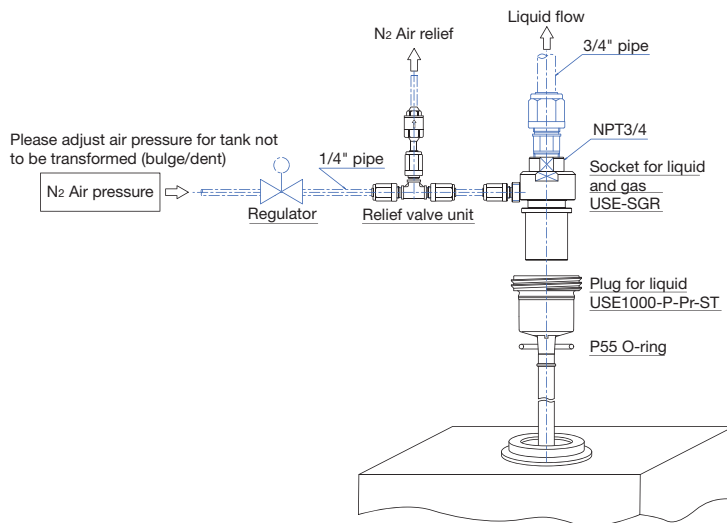
O-ring material Pr : Perfluor

- System side socket for liquid and gas (Fluororesin socket body)

USE-SGR-L60 (Body material : PCTFE)

USE6F-SGR-L60 (Body material : PFA)

Reference Example



Specifications

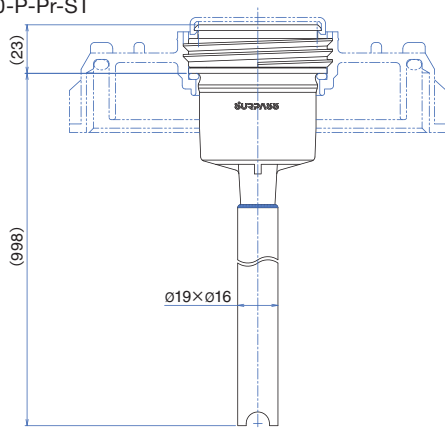
	Plug for liquid	Socket for liquid and gas	
		USE6F	USE
Temperature range	5~60°C		
Body material	HDPE	PFA	PCTFE
O-ring material	Perfluor	Kalrez® FEP Jacket	
Connection size	—	Liquid	NPT3/4
		Gas	1/4" (ø6.35×ø3.95)

List of Jigs to be used

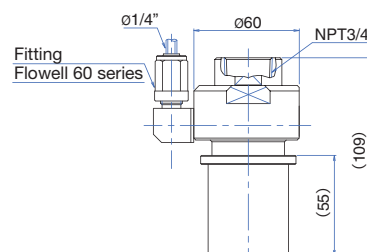
PDC-AIN	Mounting the plug to the drum Removing the plug from the drum
USE-TOOL	Removing the cap from the bracket Installing the cap to the bracket

Dimensions

- USE1000-P-Pr-ST



- USE-SGR-L60
- USE6F-SGR-L60



Quick Connectors

Model USE20 One-way PE Connector for compact container **RoHS2**



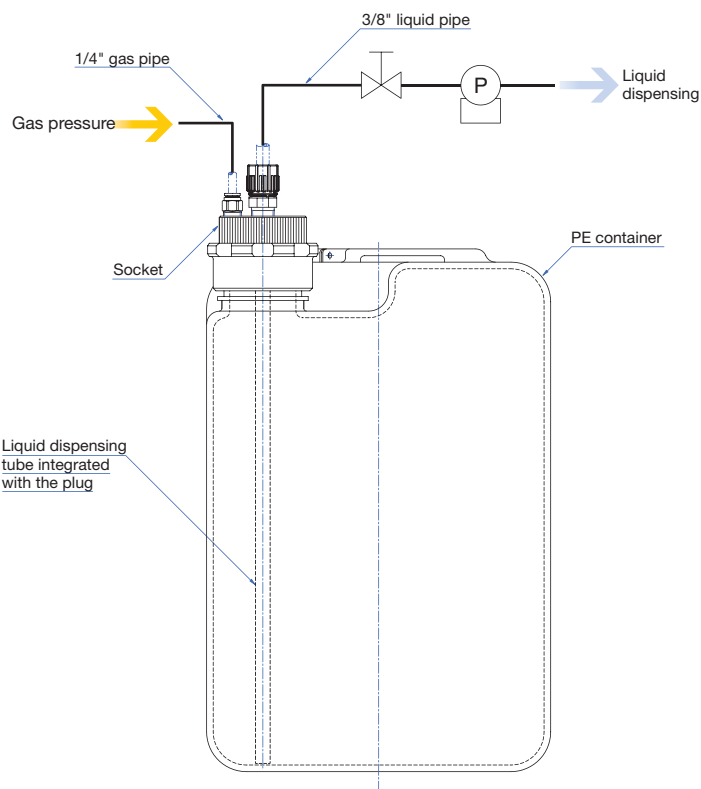
USE20 PE Connector is the first one in the market which has one-touch connection method for compact size container.

These connectors have excellent air sealing and can dispense the liquid safely and easily.

Features

- Liquid and gas connection is possible with one port type.
- It has excellent air sealing and can dispense the liquid safely with an easy connecting operation.
- The plug and the tube are integrated into a single-body structure.
- The socket can be easily fixed to a container.

Reference Example



Model

- Container side plug

USE20-P-500L

Wetted parts : HDPE, PE

- Container side plug (60L Pail can)

USE20-P-50JP

Wetted parts : HDPE, PE

- System side socket

USE20-S-50S

Wetted parts : HDPE, PFA, Kalrez® O-ring

Tube connection diameter

Liquid side (L) : NPT3/8

Gas side (G) : NPT1/4

Model USE20 Quick Connector Series for compact containers RoHS2



USE20 PE Connectors are the first connectors in the market which have one-touch connection method for gallon bottle. These connectors have excellent air sealing and can dispense the liquid safely and easily.

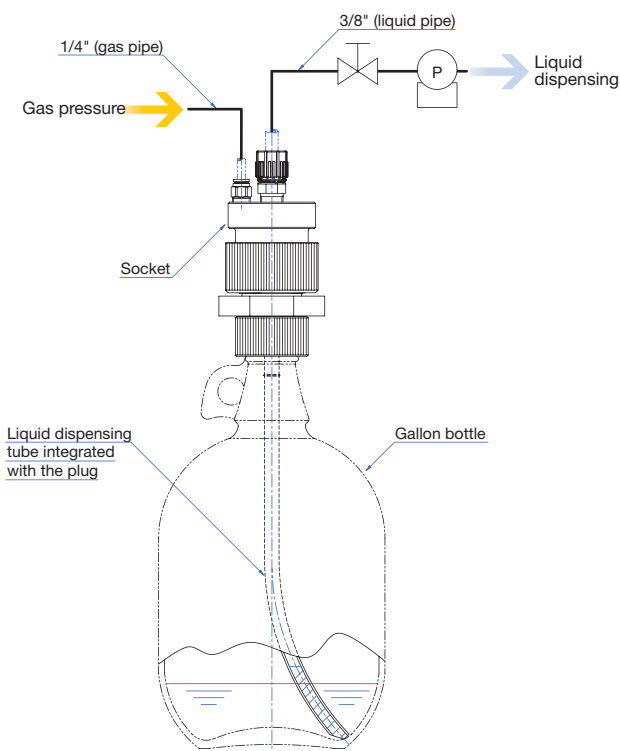
Features

- Liquid and gas easy connection is possible with one port type. The liquid can be dispensed safely.
- The socket can be easily fixed to a container through one-touch connection method.
- This connector is newly designed to minimize the residual liquid volume.

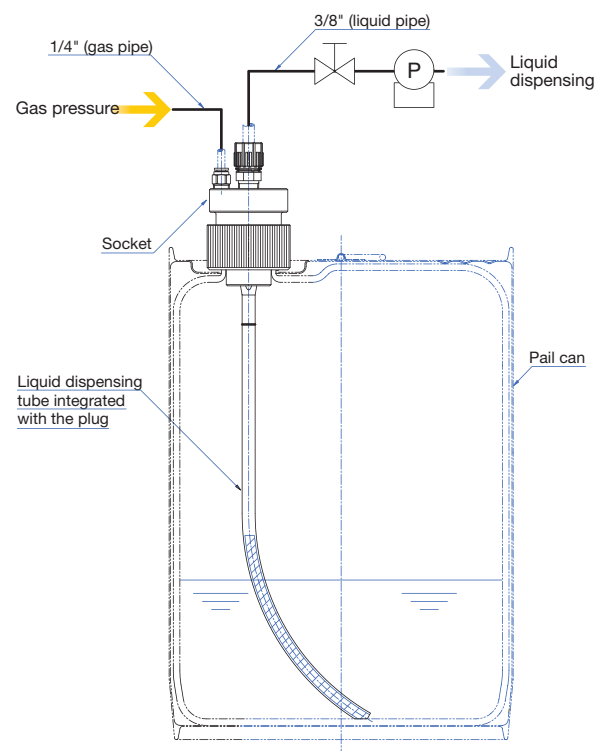
Models

- Container side plug (gallon bottle) ● Container side plug (pail can)
USE20-P-RGR **USE20-P-39RZ**
Wetted parts : HDPE, PE Wetted parts : HDPE, PE
- System side socket
USE20-S-39S
Wetted parts : HDPE, PFA, Kalrez® O-ring
Tube connection diameter Liquid side(L) : NPT3/8
Gas side(G) : NPT1/4

Reference Example (Gallon bottle)



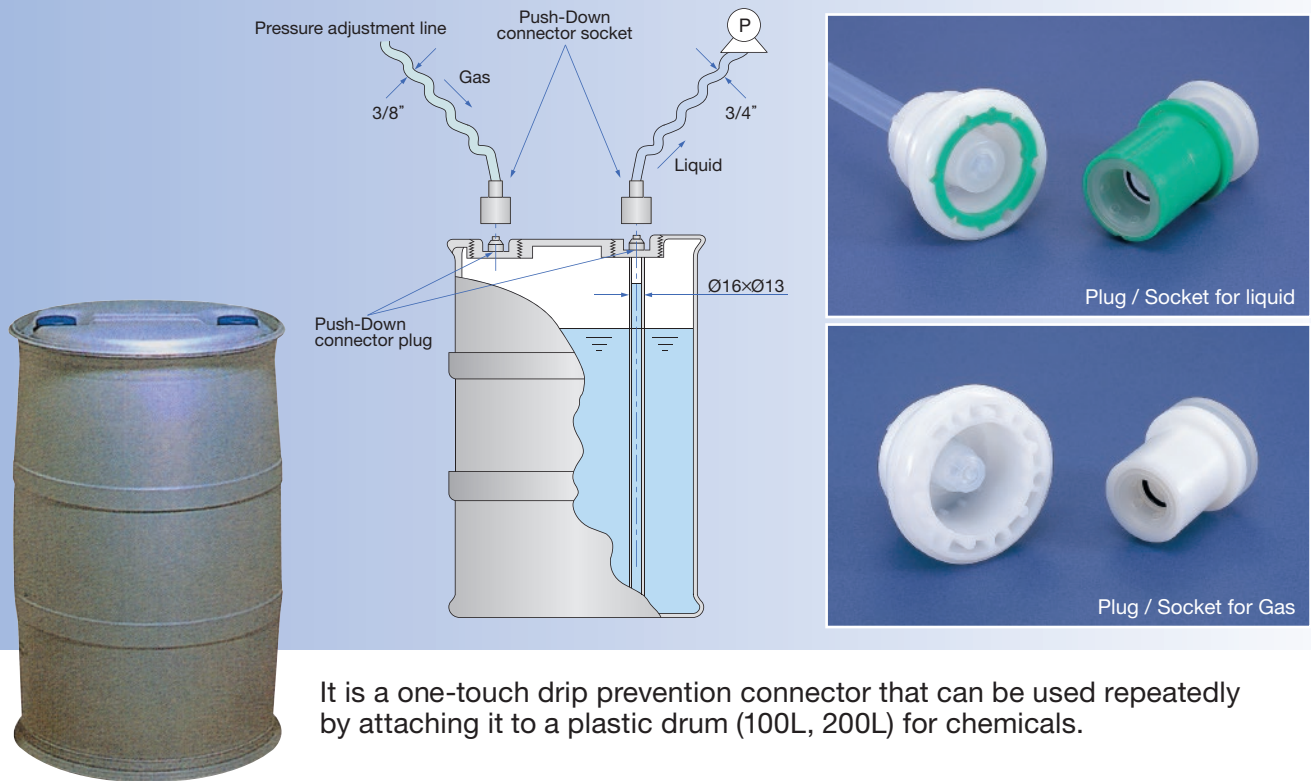
Reference Example (Pail can)



Quick Connectors

Model PDC Push-Down Connector

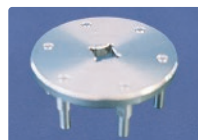
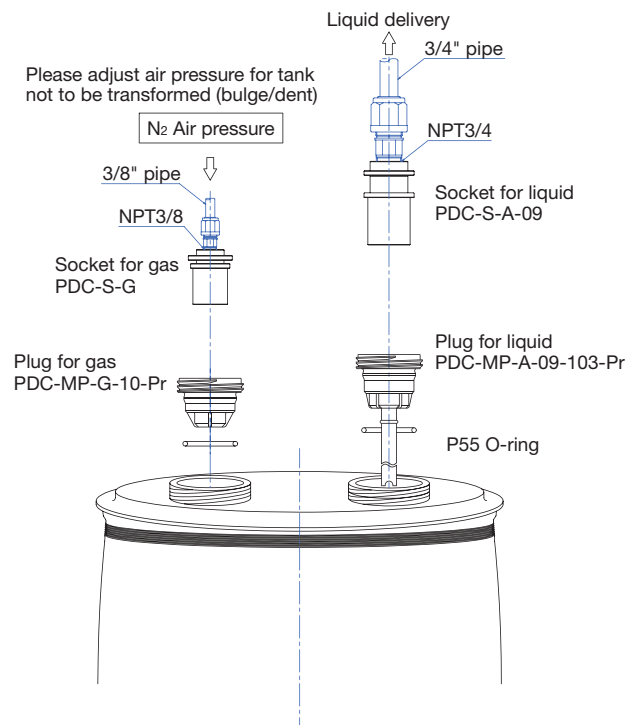
RoHS2



It is a one-touch drip prevention connector that can be used repeatedly by attaching it to a plastic drum (100L, 200L) for chemicals.

Reference Example

〈The following example : Plug type A, Key groove No.09〉



● List of Jig to be used

Type	Applications
PDC-AIN	Mounting the plug to the drum Removing the plug from the drum

Features

- Surpass original key-type and dimension systems are implemented to prevent connection-error for each chemical drums and its connectors.
- Liquid drop prevention structure adopted when detaching
- Auto stop valve maintains excellent air sealing.
- Surpass original "Super one-touch method" enables the connection of the PDC by one single push.

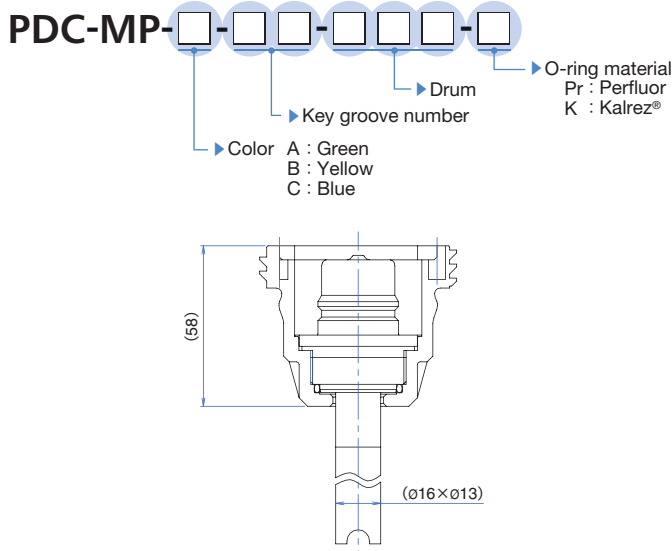
Specifications

Fluid pressure	250kPa
Temperature range	5~60℃
Wetted parts	<ul style="list-style-type: none"> PDC : PCTFE, PFA, PTFE, HDPE, Various types of O-ring PDC6F : PFA, PTFE, HDPE, Various types of O-ring

Models / Dimensions

Drum side plug for liquid (Plug body PFA molded) (with cap)

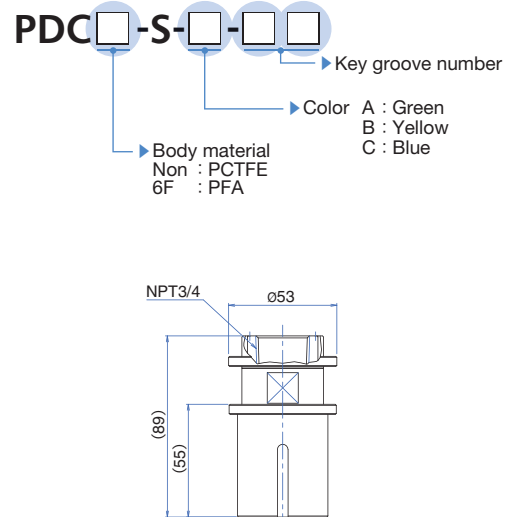
● Plug for liquid



■ Example Type: PDC-MP-A-09-103-Pr

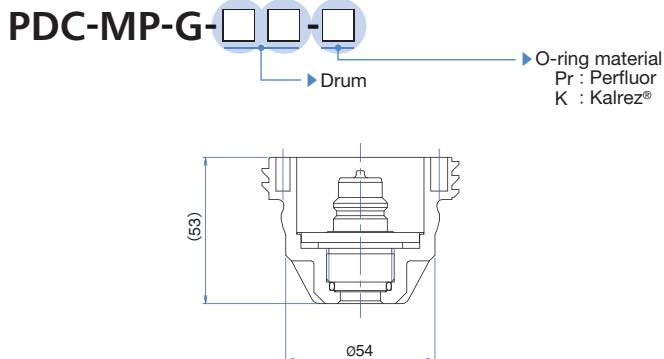
Socket for liquid (Optional cap available)

● Socket for liquid



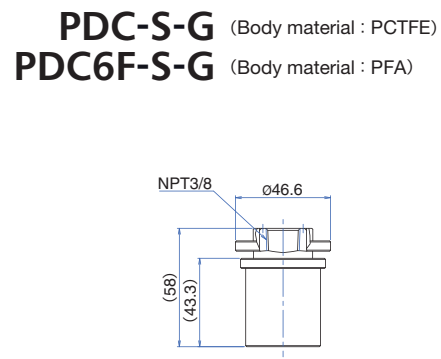
■ Example Type: PDC-S-A-09

● Plug for gas (with cap)



■ Example Type: PDC-MP-G-10-Pr

● Socket for gas



*Please contact us for details of drums in the model.

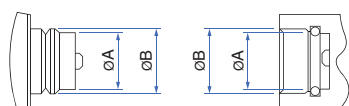
Quick Connectors

Connection-error Prevention Mechanism



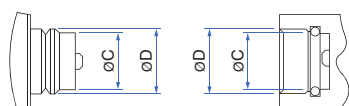
Details of key groove types

Type A x 16 selections



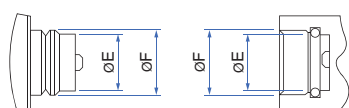
Green

Type B x 16 selections



Yellow

Type C x 16 selections



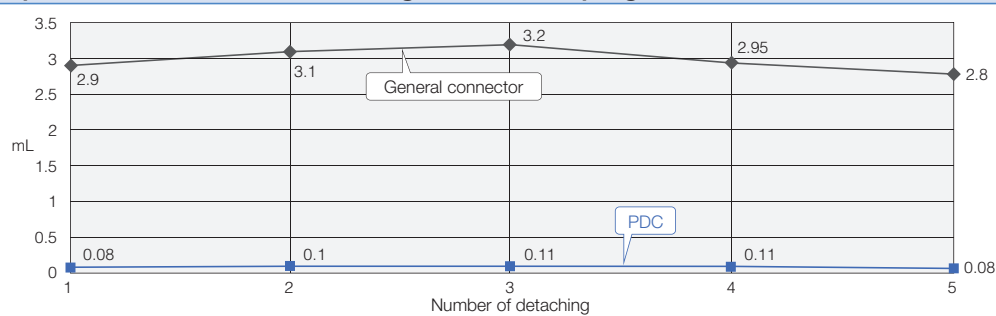
Blue

Connection-error prevention mechanism with key groove

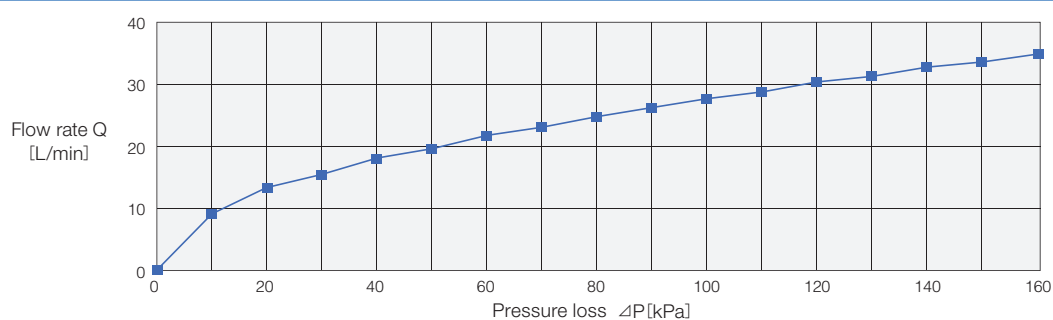
Key groove No.	Key groove position	Key groove No.	Key groove position
04		09	
05		13	
06		14	
07		15	
08		16	

Caution Surpass Industry Co., Ltd. shall not liable for the chemical administration corresponding to the key grooves.

Residual Liquid Measure when detaching socket and plug

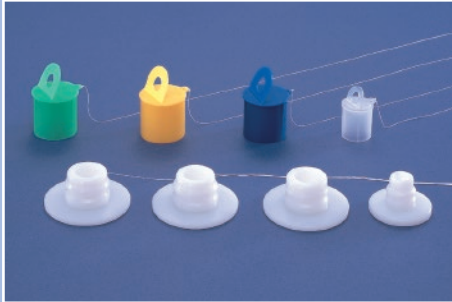


Flow Characteristics



※The data is reference value, not a guaranteed value.

Dust Proof Cap



Models

	Plug	Socket
Liquid	PDC-P-□-CAP (Material:PP) Type : A·B·C	PDC-S-□-CAP (Material:PE) Type : A·B·C
Gas	PDC-P-G-CAP (Material:PP)	PDC-S-G-CAP (Material:PE)

Vent Cap



Models

PDC-VENT (Body material:PP / O-ring : Crystal rubber)
PDC-VENT-Pr (Body material:PP / O-ring : Perfluor)

● Safety Instructions



- ⊙ Before using the product, read the instruction manual carefully and use it correctly.
We are not liable for accidents that occurred during use other than those described in the instruction manual.
- ⊙ Use this product within the specified range.
- ⊙ Confirm the compatibility of the product material with the type of fluid and ambient atmosphere before use.
- ⊙ Do not detach quick connectors under pressurized conditions.
It may cause chemical fluid to splash out, and injuries or serious accidents.
- ⊙ Using inappropriate O-ring material may cause leakage. Before specifying O-ring material to be used, make sure that is compatible with fluid type and temperature.
- ⊙ Do not use fluids that contain refuse or foreign matter, as this may interfere with normal function.
- ⊙ Abrasive or coagulate fluids may interfere with normal function, and take measures to prevent stacking residue on the wetted parts.
- ⊙ Do not use quick connectors in applications subject to flexural or tensile stress.
- ⊙ Make sure that every detachments of quick connectors are done in a clean, dust-free area.
- ⊙ Do not use the product with excessive vibration or shock.
- ⊙ When detach quick connectors, always wear a protective face mask, gloves, clothing.
- ⊙ Fully examine and select the appropriate material for the wetted parts.
- ⊙ Do not use the product in a harsh environment where fluid temperature changes rapidly, as this may cause damage to the product.
- ⊙ When storing the USE type connector, manage it indoors in a dark place or a place not exposed to ultraviolet rays.
- ⊙ The data is reference value, not a guaranteed value.
- ⊙ There is a risk of cracking connector material based upon the chemical solution used.
Please be cautious to select the material before use.
- ⊙ Periodic inspection should be performed for safety when using chemical solution with high permeability for long time.
- ⊙ If static electricity is generated, the equipment may seriously damage.
Please use after applying antistatic measures.
- ⊙ Do not warm up the product directly from the outside.
It may cause external or internal leakage failure.

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- Flowell 60 series is a trademark of Flowell Co., Ltd.