Rigid PVC Pipe and Fittings with anti water condensation layer for air conditioning drainage

**ESLON® AC DRAIN PIPE**

**ESLON® AC DRAIN Fittings**

**ESLON® Transparent AC DRAIN Fittings**

No Insulation Work Required!
**Most suitable piping material for air conditioning drainage is**

Eslon AC Drain Pipe and Fittings prevent water condensation and do not require any insulation work. It is a perfect fit for air conditioning drainage in office, hotel and hospital, etc.

**Problems on conventional air conditioning drainage.**

- **Insulation work:** It is a time consuming for insulation work.
- **Secure the installation:** Cannot check joint and slope angle.
- **Threading work:** Threading is painful work.

**Do not need insulation work**

Eslon AC Drainage Pipe and Fittings have a function of thermal insulation. Therefore you do not need any insulation work.

**Easy to Install and Improve the Quality**

Installation is identical to a conventional DV connection. There is no outer insulation material. Therefore, inspection work on joint and slope setting is much easy. In addition, visual inspection and securing the joint works are feasible by using Transparent Fittings.

**Cost Saving**

Eslon AC Drain Pipe and Fittings System is economical because of easy installation and elimination of insulation work.

**Diagram**

- **Pipe material cost**
- **Fitting material cost**
- **Piping construction cost**
- **Thermal insulation material costs**
- **Thermal insulation construction cost**

- Price is based on actual price
- Trial calculation for 3 floors (The nominal diameter is 50 for vertical pipes, the nominal diameter is 25-50 for horizontal piping, and the total number of FCU devices is assumed to be 45)
- Construction costs are set with reference to the public building construction standards
AC Drain Pipe and Fittings!

Water condensation is prevented by foamed layer.

Both Pipe and Fittings have a foamed insulation layer. This prevents whole plumbing from water condensation without having outer insulation material.

Pipe

- PVC Surface Layer: Provide a good connection with fitting.
- PVC Foamed Layer: Have superior function in thermal insulation and prevention of water condensation.
- Rigid PVC Layer: Secure flow property for drainage.
- Main Body of Fitting (ABS):
  - ABS Foamed Layer: Increase insulation property to prevent moisture condensation.
  - Cross Linked PE Foam:
    - Same size with standard socket
    - Feasible to connect pipe and fittings by adhesive.

Can be applied for air conditioning drainage regardless whether the system is packaged air conditioner or fan coil unit.

Packaged Air Conditioner

- Fi-Block/Fire Protection PVC Pipe
- Eslon AC Drain Pipe and Fittings
- Pipe for refrigerant gas
- Pipe for refrigerant liquid
- Drainage Hose, etc.

Fan Coil Unit

- Fi-Block/Fire Protection PVC Pipe
- Eslon AC Drain Pipe and Fittings
- Pipe for Hot and Cold Water
- Drainage Hose, etc.

Arrange thermal insulation in principle for pump up section. Some conditions may not require, but please check and determine properly.

Thermal insulation is needed for pump up section.

<table>
<thead>
<tr>
<th>Applicable Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Category</strong></td>
</tr>
<tr>
<td>Application</td>
</tr>
<tr>
<td>Water Pressure</td>
</tr>
<tr>
<td>Water Temperature</td>
</tr>
<tr>
<td>Nominal Diameter</td>
</tr>
</tbody>
</table>

Note: Except pump up whose length is less than 1 meter

AC Drain Pipe

Mark in this brochure

Caution
In case left hand mark is stated, it may cause serious injury or burn wound unless properly treated. Items with left hand mark is precaution statement to secure the performance of material.
New Line Up!!

Transparent AC Drain Fittings

Easy to check connecting condition

Structure

Transparent Material (ABS)
Easy to conduct visual check to avoid insufficient adhesive or insufficient insertion.

ABS Foamed Layer

Main Body

Cross linked PE foam

Same size to DV socket

Feature

In case of Adhesive Blue

Adhesive No. 73S Blue
Adhesive No. 75S Blue N

In case of luminous adhesive

NEW Adhesive No. 73S UV

Proper connecting condition

Not inserted sufficiently

No adhesive was applied

Correct adhesive state
State of non-application

The adhesive shines when illuminated with a black light.

Be sure to use adhesive No.73S Blue, No.75S Blue N, or No.73S UV for transparent AC drain fittings.

Example of plumbing

AC Drain Pipe

Transparent AC Drain Fittings

Refer Page 4, 5, 6, 7 for product line and specification.
Eslon AC Drain Pipe and Fittings Product Lineup

**Straight Pipe**

**Fittings**

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**Socket Dimensions (Common)**

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ABS Foam Injection Molded Product

- **90 °Elbow**

- **45 °Elbow**

- **Tees**

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<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Effective Length</th>
<th>Full Length</th>
<th>Inner Diameter</th>
<th>Outer Diameter</th>
<th>Wall Thickness</th>
<th>Layer Thickness</th>
<th>Length</th>
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**Injection Molded Products**

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<th>Full Length</th>
<th>Inner Diameter</th>
<th>Outer Diameter</th>
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<th>Approximate Inner Diameter (Reference)</th>
<th>Munsell No.</th>
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</table>
### Eslon AC Drain Pipe and Fittings Product Lineup

#### 45 °Y

![Diagram of 45 °Y fitting]

#### Rigid PVC Injection Molded Product

##### Socket

![Diagram of Socket fitting]

##### Reducing Socket

![Diagram of Reducing Socket fitting]

##### Adapter (Transition Fitting to PVC Pipe)

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Effective Length</th>
<th>Full Length</th>
<th>Quantity per Package</th>
<th>IVory Colored</th>
<th>Transparent</th>
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<tbody>
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<td>11</td>
<td>49</td>
<td>120</td>
<td>ACS25N</td>
<td>ACS25</td>
</tr>
<tr>
<td>30</td>
<td>11</td>
<td>57</td>
<td>160</td>
<td>ACS30N</td>
<td>ACS30</td>
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<td>ACS40</td>
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<td>NEW 65</td>
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<td>92</td>
<td>10</td>
<td>ACS65N</td>
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##### Adapter (Transition Fitting to PVC Pipe)

<table>
<thead>
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<th>Nominal Diameter</th>
<th>Effective Length</th>
<th>Full Length</th>
<th>Quantity per Package</th>
<th>IVory Colored</th>
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<td>NEW 65</td>
<td>12</td>
<td>92</td>
<td>10</td>
<td>ACS65N</td>
<td>ACS65</td>
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</table>

#### Dual Conversion Adapter (PVC Pipe VP and Directly Convertible Fittings)

* A PVC TS / DV fitting is not required for PVC pipe conversion.

##### MD Fitting Connection Adapter

![Diagram of MD Fitting Connection Adapter]

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**Unit**: mm

**Remarks**: 1. Please refer to page 11 for how to use.
2. Connect an AC drain pipe of the same nominal diameter to the socket side. Connect TS fittings to the spigot side with nominal diameters of 20 and 30, and connect DV fittings to the spigot side with nominal diameters of 30, 40 and 50 (as these are for use with DV spigot measurements, TS fittings cannot be used).
This product is used in exchange for the inspection port unit connected to the vertical trap during the test to see if the product is filled with water.

There is no water stop function in the vertical pipe, so a separate water stop jig (commercially available) is required to perform the test to check if the product is filled with water.

(1) Turn the inspection port unit counterclockwise to unlock and pull it out.
(2) Install a unit for testing if the product is filled with water. When installing, make sure that two types of rubber packing (black) are set, and lock it by turning it clockwise while pushing the handle until it is vertical or horizontal.
(3) After stopping the water in the pipe on the floor below the trap and performing a test to see if it is filled with water, be sure to re-set the inspection port unit removed in (1). At that time, make sure that the two types of rubber packing (black) are set, and there is no abnormality in the self-closing membrane.

Since the vertical trap has a self-closing membrane, it is not possible to vent the downstream side, so use this product during a test to see if an item is filled with water.
Eslon AC Drain Pipe and Fittings Product Lineup

Related Parts

Screw-Type Cleaning Port (Rigid PVC Injection Molded Product)

Example of using the screw-type cleaning port:
AC drain nominal diameter 50 case

*The nominal diameter of the screw-type cleaning port used is one size larger than the AC drain fitting nominal diameter.

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<table>
<thead>
<tr>
<th>AC Drain Nominal Diameter</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>Clamp Torque (N·m)</th>
<th>Quantity per Package</th>
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<th>Price</th>
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<tbody>
<tr>
<td>20</td>
<td>41</td>
<td>27</td>
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<td>350 yen</td>
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<td>19</td>
<td>41.2</td>
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<td>2</td>
<td>200</td>
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<td>23</td>
<td>44.6</td>
<td>24.0</td>
<td>4</td>
<td>240</td>
<td>JNC040N</td>
<td>380 yen</td>
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<tr>
<td>40</td>
<td>68</td>
<td>51</td>
<td>60</td>
<td>26</td>
<td>47.5</td>
<td>29.0</td>
<td>5</td>
<td>132</td>
<td>JNC050N</td>
<td>440 yen</td>
</tr>
<tr>
<td>50</td>
<td>84</td>
<td>69</td>
<td>76</td>
<td>36</td>
<td>57.5</td>
<td>36.0</td>
<td>5</td>
<td>68</td>
<td>JNC065N</td>
<td>730 yen</td>
</tr>
</tbody>
</table>

NEW 65 98 81 89 41 65.0 42.0 5 48 JNC075N 1,090 yen

Remarks:
1. Do not use where contacting water continuously, as water condensation may occur.
2. A nominal diameter of one size larger for the AC drain is indicated on the product.

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### Eslon Adhesive

Please use it as a standard adhesive for AC drain pipe connection.

<table>
<thead>
<tr>
<th>No.73S Blue</th>
<th>No.75S Blue N</th>
<th>No.73S</th>
<th>No.75S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colored adhesive</td>
<td>Colored low viscosity type</td>
<td>Capacity: 500g can (with brush)</td>
<td>Capacity: 1kg can (with brush)</td>
</tr>
<tr>
<td>(500g can (with brush))</td>
<td>(1kg can (with brush))</td>
<td>Capacity: 500g can (with brush)</td>
<td>Capacity: 1kg can (with brush)</td>
</tr>
</tbody>
</table>

**NEW**

No.73S UV

(Fluorescent adhesive)

Capacity: 500g can (with brush)

**Lights up when checking construction!**

The adhesive shines when illuminated with a black light. You can see at a glance whether or not it has been applied even in a dark place, which is useful for confirmation of non-application.

⚠️ Before using No.73S UV, make sure that the color shows.
⚠️ This is an adhesive for use with drainage. Do not use it for water supply or pressurized pipes.
⚠️ If it spills on the floor, wipe it up immediately.

*Be sure to use adhesive No.73S Blue, No.75S Blue N, or No.73S UV for transparent AC drain fittings.*

### AC Drain Cutter

By cutting the AC drain pipe while turning it, it can be cut without damaging the foam layer.

**Standard type**

(For nominal diameter 20-50)

**Small**

(For nominal diameter 20-30)

*Can handle up to a nominal diameter of 50.*

- No crushing of the foam layer!
- No burrs!
- Handles nominal diameters of 20-50!
- No chips!
- No diagonal breaks!

*The AC drain cutter product is handled by SEKISUI CHEMICAL CO., LTD.*

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Drain Cutter (standard type)</td>
<td>37,300 yen</td>
</tr>
<tr>
<td>AC Drain Cutter (small)</td>
<td>34,000 yen</td>
</tr>
<tr>
<td>Spare Blade</td>
<td>9,200 yen</td>
</tr>
</tbody>
</table>
Construction Procedure

1 Cut
Mark the part to be cut all around, then cut at right angles to the axis of the pipe using the AC drain cutter or a PVC saw.

Do not use a PVC cutter, etc., as it will cause cracks and fissures.

In the case of a diagonal cut, drain water may enter from the end of the pipe, and there is a risk of water leaking from minute cuts on the outer surface of the pipe.

If there are any scratches, dents or rusted parts on the pipe, cut and remove those parts.

When using an AC drain cutter (shown on page 8), be sure to refer to the accompanying instruction manual.
(Handles up to a nominal diameter of 50)

2 Chamfer
Chamfer the threads at the end of the pipe on both the inner and outer surfaces.

If it is not chamfered, the adhesive on the socket will be scraped off when connected, which may cause the thread to come off. So please be sure to chamfer the thread.

3 Cleaning Process
Wipe off with a dry cloth any dirt such as sand, earth, and dust and moisture, etc., adhering to the inside of the fittings socket or the pipe spigot.

4 Record Insertion Length
Record the insertion length shown in the table below in the pipe spigot.

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Insertion Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>19</td>
</tr>
<tr>
<td>25</td>
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<td>50</td>
<td>36</td>
</tr>
<tr>
<td>65</td>
<td>40</td>
</tr>
</tbody>
</table>

Installation Procedure for Expansion Fittings for Vertical Pipes

1 Chamfer
Chamfer the pipe end about 1-2mm.

2 Application of Silicone Sealant
Apply silicone sealant evenly to the pipe end surface.

If it is not applied, drain water may enter from the pipe end and may leak from minute cuts on the outer surface of the pipe.

3 Insertion
Please insert up to the standard insertion length for each nominal diameter in the table on the right.

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Insertion Length</th>
</tr>
</thead>
<tbody>
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<td>25</td>
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<td>30</td>
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<td>40</td>
<td>63mm</td>
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<tr>
<td>50</td>
<td>64mm</td>
</tr>
<tr>
<td>65</td>
<td>63mm</td>
</tr>
</tbody>
</table>

Vertical Trap Installation Procedure

1 Inspection Port Unit Removal
Please remove the inspection port unit before installation.

If the trap is installed without removing it and the adhesive sticks to the inspection port unit, it may not work.

2 Adhesive Bonding
Bond to the AC drain pipe with adhesive.

3 Inspection Port Unit Installation
Attach the removed inspection port unit. When installing, while pushing the handle until it is vertical or horizontal, turn it clockwise to lock it.
Horizontal Pipe Installation Standard

- The pipe support for horizontal running piping is a steel bar suspension (all threaded bolt suspension) as basic.
- The suspension support interval should be 1m or less.
- The horizontal straight piping should be less than 30m, and if it exceeds this, return the elbow every 30m (2 elbows or more, elbow interval 0.5m or more).

Vertical Pipe Installation Standard

Common precautions for the vertical pipe expansion fittings and vertical traps

- This product is a fitting exclusively for vertical pipes. Do not use it for horizontal pipes.
- The direction of the arrow on the main unit is the direction of flow of the drain water. Install the pipe with the arrow in the downward direction.
- When connecting, chamfer (decruit) the inner and outer surfaces of the pipe end.
- Remove any foreign matter adhering to the pipe or packing.
- When inserting the pipe into the fitting, do not insert it with force, such as oblique insertion or hammering.
- After installation, be sure to run water through the pipe and check that water flows.

Expansion Fittings for Vertical Pipe

Installation Standard

- Install the expansion fittings on the slab at one place on each floor.
- If the pipe is not fixed to the penetration part and has no junction, install one expansion fitting every 10 m.
- Support the expansion fittings and directly under the expansion fittings.

Installation Precautions

- Application of lubricant is not required for the rubber ring part.
- Insert the AC drain pipe to the specified insertion length.
- Apply silicone sealant to the end surface of the pipe that is inserted upstream of the expansion fittings for vertical pipes.

Vertical Trap

Installation Standard

- The installation height (H) of the air conditioner and this product should be 50mm or more. However, the installation height (H) is required to be in accordance with the internal static pressure (negative pressure) of the connected air conditioner H (mm) = Internal static pressure (negative pressure) \[\text{Pa} = 9.8 \times \frac{\text{Pa}}{\text{mmHg}} = 50 \ [\text{mm}]
- This product requires periodic inspection and cleaning, and may require replacement. Provide sufficient space around the product for maintenance.

Installation Precautions

- Please attach this product to the AC drain pipe using an ESLON adhesive. Be careful of dripping due to excessive application of adhesive. If the adhesive sticks to the self-closing film, it may not work, so remove the inspection port unit before the parts are attached together with adhesive.
- When using the conversion adapter (30A), attach it to the main unit with an ESLON adhesive.
Connection Method with Different Types of Pipes

When connecting different types of pipes, be sure to use an adapter fitting at the end of the AC drain pipe.

(1) When connecting VP pipes (TS joints) of nominal diameters 20 and 25 to AC drain pipes
Connect the adapter fitting and TS fitting in combination.
△ The VP pipe and TS fitting require separate thermal insulation.
*This can also be used when connecting to a drain hose.

(2) When connecting VP pipes (DV fittings) of nominal diameters 30, 40, 50 and 65 to AC drain pipes
Connect adapter fittings and DV fittings in combination.
△ The VP pipe and DV fitting require separate thermal insulation.
△ Since the spigot is the size of the DV socket, it cannot be connected to TS fittings.

(3) When connecting MD fittings and the AC drain pipe
Connect using the MD fitting adapter.
△ Do not cut the spigot and use it.
△ Do not connect TS fittings or DV fittings to the spigot side.
△ The MD fitting adapter spigot part and the MD fittings require separate thermal insulation.

Eslon AC Drain Pipe and Fittings Performance

<< Design >>
● Condensation prevention performance, nominal diameter 25, pipe slope 1/50 case

△ Performance of AC drain pipe and fittings when using horizontal pipe.
When using an AC drain pipe and fittings for a full pipe such as an upwardly draining part, as a general rule, provide separate thermal insulation.
1. Precautions Based on Design

- This is a dedicated pipe for air conditioner drain piping. Never use it for pressurized pipe applications other than an upwardly draining section (1m or less).
- In the section of inner pipe of an upwardly draining section that fills with water, water condensation may occur in the AC drain pipe and fittings single unit, so as a general rule, thermally insulate them separately.
- This is a pipe for indoor use only. Do not use outdoors.
- In places where the fire protection section is penetrated, fire protection section penetration handling is required using Fiblock.
- The pipe support for horizontal running piping is a steel bar suspension (all threaded bolt suspension) as basic.
- Horizontal straight piping should be less than 30m, and if it exceeds this, return the elbow every 30m (2 elbows or more, elbow interval 0.5m or more).
- For a vertical pipe, handle stretching using an expansion fittings for use with vertical types at one place on each floor.
- Under the following operating environment conditions, there is a risk of condensation on the AC drain pipe and fittings. Check the operating conditions and environmental conditions:
  - In an environment where outside air flows in, the environment around the piping is easily affected by the outside air, which may result in temperature and humidity conditions that cause condensation.
  - In places where high temperatures and high humidity are expected even indoors (under a roof, near an outer wall, etc.), the environment around the piping may be easily affected, which may result in temperature and humidity conditions that cause condensation.
- There is a risk of condensation in drainage water that flows at a high rate (for example, drained water from the air handling unit).

2. Storage Precautions

- Install the AC drain pipe support at the same interval as the PVC pipe (VP) on the same nominal diameter.
- Be sure to store the pipes and fittings indoors. When storage outdoors is unavoidable, in order to avoid direct sunlight, please use some method to ensure that they are not confined in hot air such as covering with a sheet.
- Do not use fire in the storage area. Pipes and fittings may deteriorate due to sparks or heat.
- Do not place solvent or paint in the storage area. If an organic solvent adheses to the pipes or fittings, they may deteriorate.

3. Transportation Precautions

- Since the AC drain pipe has a foam layer which is soft, the packaging specification requires cardboard packaging over the full surface. Even more care should be taken when handling than with PVC (VP) pipes. Never drag or throw, etc.

4. Precautions for Installation of AC Drain Pipe and Fittings

- Please use ESLON adhesives No.735 Blue, No.755 Blue N, No. 73S, No. 75S or No.73S UV.
- Be sure to use adhesives No.735 Blue, No.755 Blue N, or No.73S UV for transparent AC drain fittings.
- Be sure to follow the installation procedure (P.9) in the ESLON AC drain pipe and fittings catalog.
- The connection between the AC drain pipe and the DV fittings (TS fittings) for PVC pipes may cause accumulation of water or condensation due to steps in the pipe, so please observe the following items.
  - Be sure to use an AC drain pipe and AC drain fittings in combination for the AC drain piping system.
  - When connecting an AC drain pipe and a PVC pipe, use an adapter fitting (see page 5).

5. Precautions for Installation of Expansion Fittings for Vertical Pipes

- Since the direction of the arrow on the main unit indicates the direction of drain water flow, install with the arrow pointing downwards. Chamfer (deburn) the inner and outer surfaces of the pipe end.
- Application of lubricant is not required.
- Remove any foreign matter from the lube or packing.
- Insert the specified amount of the AC drain pipe.

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Insertion Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>30A</td>
<td>54mm</td>
</tr>
<tr>
<td>40A</td>
<td>57mm</td>
</tr>
<tr>
<td>50A</td>
<td>64mm</td>
</tr>
<tr>
<td>65A</td>
<td>63mm</td>
</tr>
</tbody>
</table>

6. Precautions for Installation of Vertical Trap

- Since the direction of the arrow on the main unit indicates the direction of drain water flow, install with the arrow pointing downwards.
- Join this product with an AC drain pipe using an ESLON adhesive.
- Please beware of dripping due to excessive application of adhesive.
- If the adhesive sticks to the self-closing film, it may not work, so remove the inspection port unit before applying the adhesive.
- After installation, be sure to check the operation of the self-closing film and check that water flows.

7. Other Precautions

- If there are any scratches, dents or flattened parts on the pipe, cut and remove those parts.
- If the pipe or fittings touch organic solvents such as creosote, asphalt, preservatives, waterproofing agents, ketones, castor oil or glycol ethers, they may swell and break, so do not apply or put these solvents in contact with the pipe or fittings.
- Do not flush with chemicals such as solvents, ethanol, chlorinates, glycol ethers, or castor oil. The pipeline may be damaged and water leakage may occur. Be especially careful when cleaning the inside of the air conditioner body with liquid chemicals.
- Do not step on or hang from the pipe.
- Keep away from fire such as electric welding sparks, and in torch lamps and gas burners.
- For the separation distance between gas appliances such as gas water heaters and the surrounding piping, please observe the standards stated in the gas equipment installation standards and practical guidelines (Japan Gas Appliance Inspection Association). In addition, since the standard may be relaxed depending on the model of the gas water heater, check with your gas company or gas equipment manufacturer for the specific separation distance.
- Do not place pipes near open flames such as gas stoves.

**Precautions**

- If the amount of adhesive used per hour exceeds the permissible amount indoors, the “Organic Solvent Poisoning Prevention Rules” will apply and you will need to be qualified as an “Organic Solvent Handling Manager”. For details, check with your local Labour Safety Standards Inspection Office.
- Since organic solvents such as adhesives are used during installation, be careful not to cause a fire.
- When using an adhesive, be sure to provide adequate ventilation. If you get adhesive on your skin, remove it immediately. If you feel unwell or that you have something wrong physically, consult a doctor immediately.
- In sealing materials used when piping penetrates the building foundations, walls, floors, etc., there are substances (example, polyurethane sealants) that include plasticizers (phthalate ester, DOP, etc.) and organic solvents (xylene, toluene, etc.) that may adversely affect AC drain pipes and fittings. Do not use sealing materials containing these components as they may adversely affect PVC pipes and fittings. (Recommended products: Silicone Sealant made by Sekisui Fuller Co., Ltd. Modified Silicone Seantant)
- Do not allow the pipe and fittings to contact directly with the covered wire (cord / covered support metal and vinyl tape) containing the plasticizer as it may immersed the pipe and fittings.
- Please contact your nearest sales office regarding usage other than that described in this document.
- When performing a test to check if an item is filled with water, be sure to carry it out with a hydraulic head of 3m (30kPa) and pay attention to the following items."
  - "Note that if there is uneven application of the adhesive at the pipe end or if there is a gap between the fittings and the pipe, then water may enter from the pipe end.
  - When a test to check if it is filled with water is performed, be sure to visually check and touch the connecting part.

**Please note that we are not liable for any damage or accidents that occur if you do not follow the above precautions.**