



## Models of Dampers :

- FDC, Fire Damper  
 3 Hr Fire Rating,  
 ANSI/UL 555 & C UL US  
 CAN/ULC-S112 R26041

- FSD : Fire/Smoke Damper

- VD : Volume Damper,  
 Ordinary

- VL : Volume Damper,  
 Low Leak

- MD : Motorized Damper,  
 Ordinary

- ML : Motorized Damper,  
 Low Leak

- RVD : Round Volume  
 Damper, Ordinary

- RVL : Round Volume  
 Damper, Low Leak

- RMD : Round Motorized  
 Damper, Ordinary

- RML : Round Motorized  
 Damper, Low Leak

- OVD : Flat Oval Volume  
 Damper, Ordinary

- OVL : Flat Oval Volume  
 Damper, Low Leak

- OMD : Flat Oval Motorized  
 Damper, Ordinary

- OML : Flat Oval Motorized  
 Damper, Low Leak

- GD : Gravity Damper

- RD : Relief Damper

# Types of Fire Damper, Model : FDC

3 Hr Fire Rating, ANSI/UL 555 & CAN/ULC-S112



## Vertical only

Frame of Damper, attached to frame of fan or louver with steel angle



Single Section  
(without damper sleeve),  
In Airstream,  
normally open to let air flow through



Single Section  
(without damper sleeve),  
In Airstream,  
automatically fully close when temperature reaches 165°F (74°C) to prevent fire flow through

Frame of Damper, attached to frame of fan or louver with steel angle



Single Section  
(without damper sleeve),  
Out of Airstream,  
normally open to let air flow through



Single Section  
(without damper sleeve),  
Out of Airstream,  
automatically fully close when temperature reaches 165°F (74°C) to prevent fire flow through



Single Section  
(with damper sleeve),  
In Airstream,  
automatically fully close when temperature reaches 165°F (74°C) to prevent fire flow through



Single Section  
(with damper sleeve),  
Out of Airstream,  
automatically fully close when temperature reaches 165°F (74°C) to prevent fire flow through

Damper Sleeve, to connect to air duct using breakaway connections

**Fusible Link,**  
LISTED 165°F (74°C), UL 33  
The fuse will be melted to release blades of the damper to automatically fully close to prevent fire when temperature reaches 165°F (74°C)



Multiple Section  
(2 units of single section connected together),  
Out of Airstream,  
automatically fully close when temperature reaches 165°F (74°C) to prevent fire flow through



Multiple Section  
(2 units of single section connected together),  
In Airstream,  
automatically fully close when temperature reaches 165°F (74°C) to prevent fire flow through



Multiple Section  
(4 units of single section connected together),  
In Airstream,  
automatically fully close when temperature reaches 165°F (74°C) to prevent fire flow through

Suitable for mounting to air grilles, air louvers, duct lines installed through wall to prevent fire flow through the air grilles, air louvers, duct lines installed through wall during fire situation.

# Certificates

**CERTIFICATE OF COMPLIANCE**

**Certificate Number** 20160525-R26041  
**Report Reference** R26041-20160518  
**Issue Date** 2016-MAY-25

**Issued to:** PCJ INDUSTRIES CO LTD  
 199/24-25 Vibhavadeerangsit Rd  
 Samsennai  
 Payathai Bangkok 10400 THAILAND

**This is to certify that representative samples of** Dampers for Fire Barrier and Smoke Applications  
 Fire Damper, Model FDC

These dampers are of the curtain type rated up to and including 3 hours.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/UL 555, Fire Dampers.  
 CAN/ULC S112, Standard Method of Test of Fire Damper Assemblies.

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.


Look for the UL Certification Mark on the product.

*Barthel*  
 Bruce Barthel, Director North American Certification Program  
 UL LLC  
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/usa/office>



Page 1 of 1

EMME.R26041 - Dampers for Fire Barrier and Smoke Applications | UL Product iQ

**UL Product iQ™** 

EMME.R26041 - Dampers for Fire Barrier and Smoke Applications



Dampers for Fire Barrier and Smoke Applications

[See General Information for Dampers for Fire Barrier and Smoke Applications](#)

**PCJ INDUSTRIES CO LTD** R26041  
 199/24-25 Vibhavadeerangsit Rd  
 Samsennai  
 Payathai, Bangkok 10400 THAILAND

**Fire Dampers for Use in Static Systems**

Model	Hr Class	Damper Mounting Position	Single Section Damper Size, in.		Multiple Section Damper Size, in.	
			W	H	W	H
			FDC	3	V	48

Trademark and/or Tradename:  

[Last Updated](#) on 2016-05-31

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

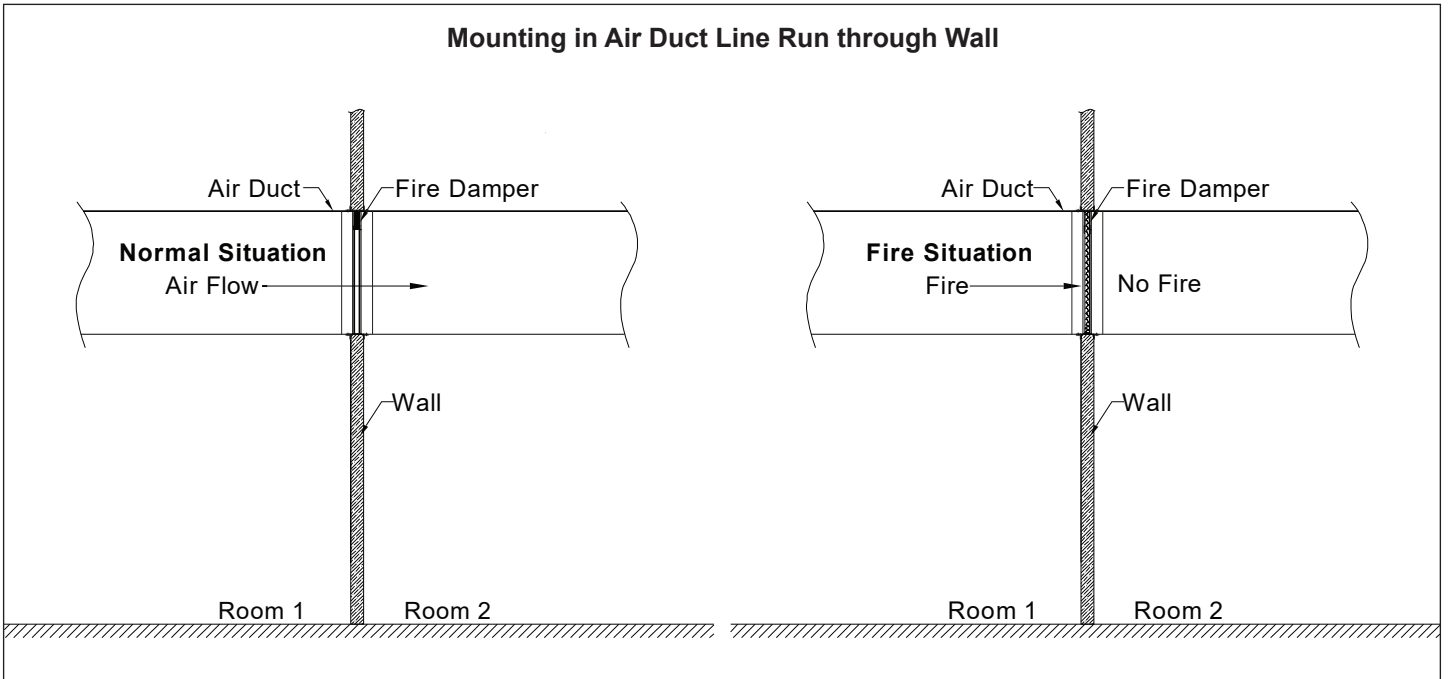
UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2022 UL LLC"

# Example of Applications

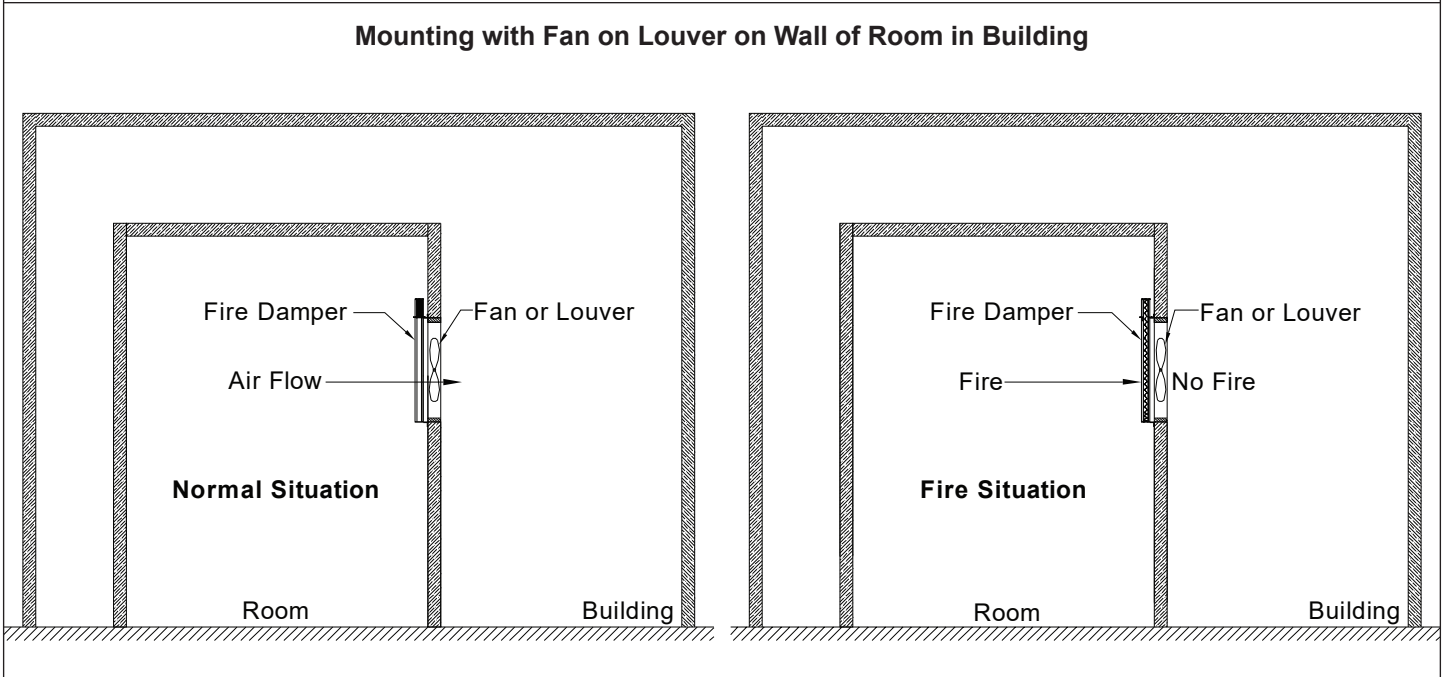
for Fire Damper, Model : FDC, 3 Hr Fire Rating, ANSI/UL 555 & CAN/ULC-S112 R26041



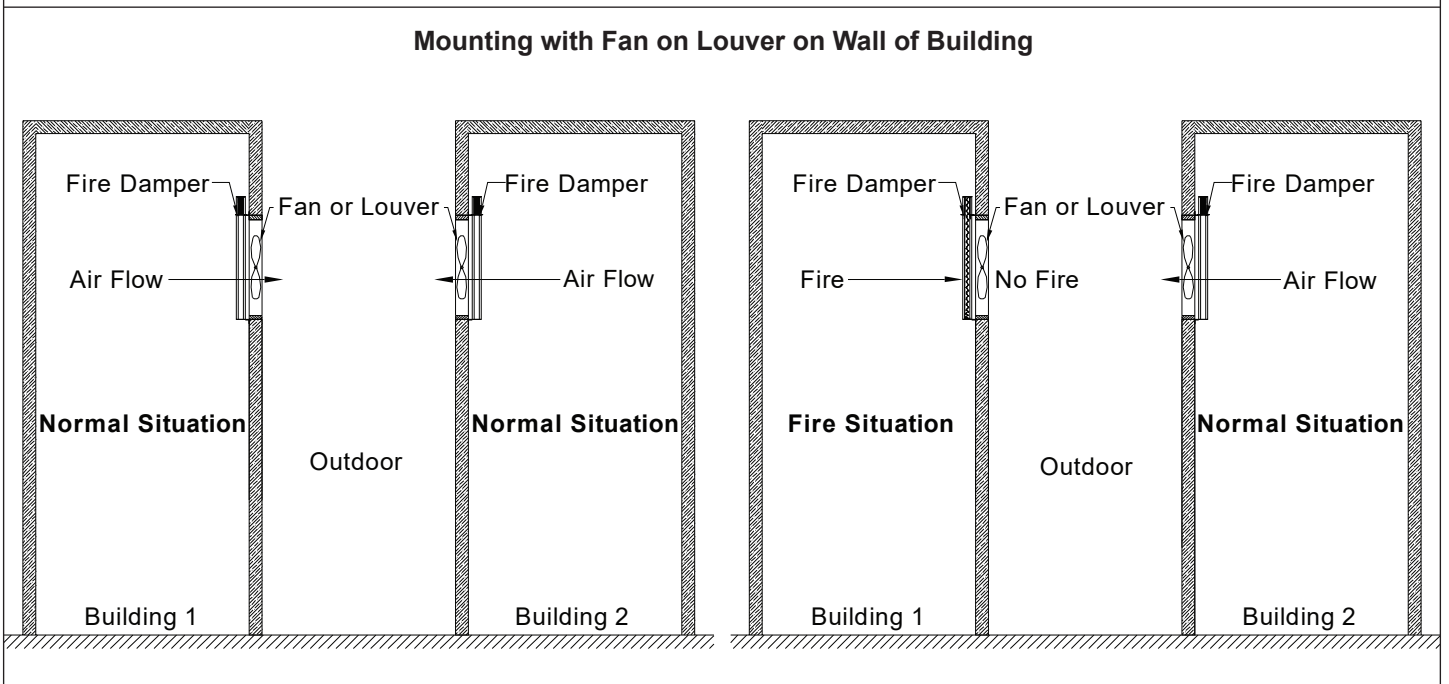
## Mounting in Air Duct Line Run through Wall



## Mounting with Fan on Louver on Wall of Room in Building



## Mounting with Fan on Louver on Wall of Building



# Other Dampers

## Model : FSD, Fire/Smoke Damper



Flange Type



Plain End Type  
with Damper  
Sleeve



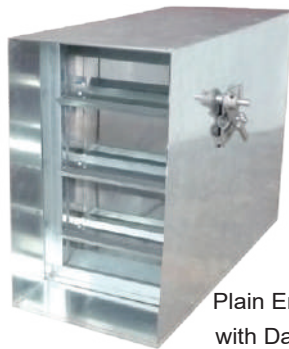
Plain End Type,  
Actuator  
outside Wall

Suitable for mounting to duct lines installed through openings in walls, partitions or floors to prevent fire/smoke transfer through the openings in walls, partitions or floors.

## Model : VD, Volume Damper, Ordinary



Flange Type



Plain End Type  
with Damper  
Sleeve



Plain End Type,  
Crank Arm  
outside Wall



Drive Slip Type

Suitable for mounting to duct lines, building walls or shafts to manually control air volume of supply, exhaust or fresh air.

## Model : VL, Volume Damper, Low Leak



Flange Type



Plain End Type  
with Damper  
Sleeve



Plain End Type,  
Crank Arm  
outside Wall

Suitable for mounting to duct lines, building walls or shafts to manually control air volume of supply, exhaust or fresh air where low leakage of air flow is strictly required.

## Model : MD, Motorized Damper, Ordinary



Flange Type



Plain End Type  
with Damper  
Sleeve

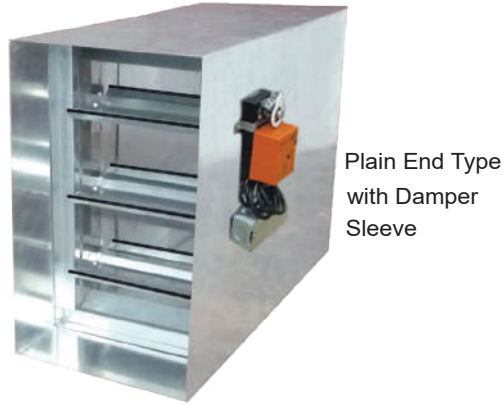


Plain End Type,  
Actuator  
outside Wall

Suitable for mounting to duct lines, building walls or shafts to automatically control air volume of supply, exhaust, fresh or pressurized air.

# Other Dampers

## Model : ML, Motorized Damper, Low Leak



Suitable for mounting to duct lines, building walls or shafts to automatically control air volume of supply, exhaust, fresh or pressurized air where low leakage of air flow is strictly required.

## Model : RVD, Round Volume Damper, Ordinary



Suitable for connecting between flexible ducts and diffuser/grille plenums to manually control air volume of supply, exhaust or fresh air.

## Model : RVL, Round Volume Damper, Low Leak



Suitable for connecting between flexible ducts and diffuser/grille plenums to manually control air volume of supply, exhaust or fresh air where low leakage of air flow is strictly required.

## Model : RMD, Round Motorized Damper, Ordinary



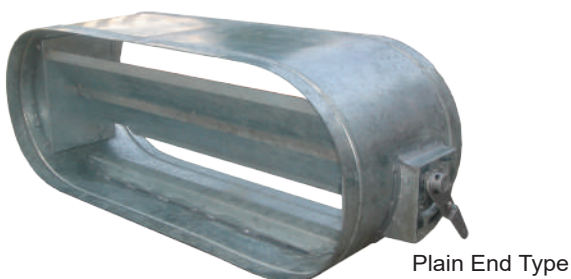
Suitable for connecting between flexible ducts and diffuser/grille plenums to automatically control air volume of supply, exhaust or fresh air.

## Model : RML, Round Motorized Damper, Low Leak



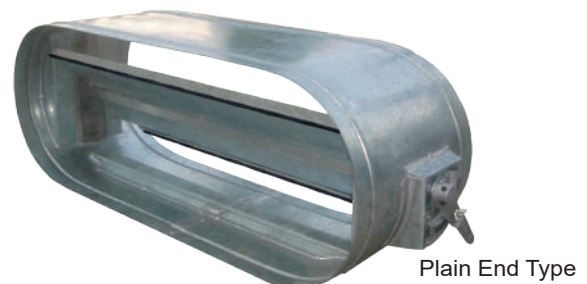
Suitable for connecting between flexible ducts and diffuser/grille plenums to automatically control air volume of supply, exhaust or fresh air where low leakage of air flow is strictly required.

## Model : OVD, Flat Oval Volume Damper, Ordinary



Suitable for mounting to flat oval duct lines to manually control air volume of supply, exhaust or fresh air.

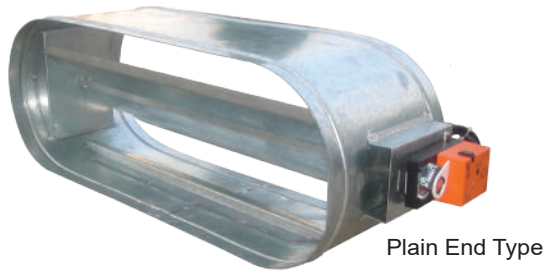
## Model : OVL, Flat Oval Volume Damper, Low Leak



Suitable for mounting to flat oval duct lines to manually control air volume of supply, exhaust or fresh air where low leakage of air flow is strictly required.

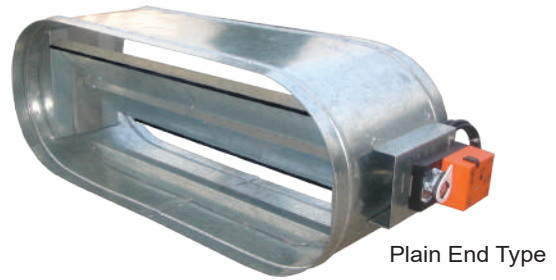
# Other Dampers

**Model : OMD, Flat Oval Motorized Damper, Ordinary**



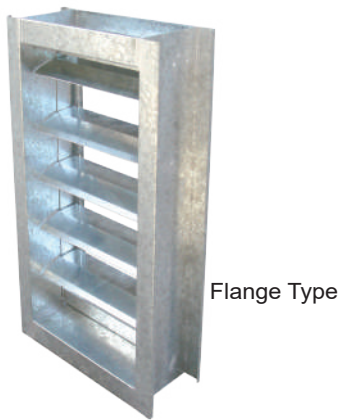
Suitable for mounting to flat oval duct lines to automatically control air volume of supply, exhaust or fresh air.

**Model : OML, Flat Oval Motorized Damper, Low Leak**



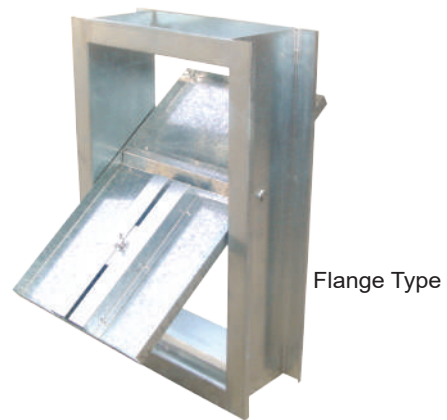
Suitable for mounting to flat oval duct lines to automatically control air volume of supply, exhaust or fresh air where low leakage of air flow is strictly required.

**Model : GD, Gravity Damper**



Suitable for mounting to duct lines, in front of AHU blowers or ventilating fans to control air flow to only one direction, preventing air flow in reverse direction.

**Model : RD, Relief Damper**



Suitable for mounting to building walls or shafts to control air pressure to be not exceeded the specified pressure automatically.

## How to Order

XXX-XX

**Model :-**

- |  |   |
|--|---|
| <b>FDC</b> = Fire Damper, 3 Hr Fire Rating, ANSI/UL 555 & CAN ULC-S112 | <b>RMD</b> = Round Motorized Damper, Ordinary     |
| <b>FSD</b> = Fire/Smoke Damper   | <b>RML</b> = Round Motorized Damper, Low Leak     |
| <b>VD</b> = Volume Damper, Ordinary                                    | <b>OVD</b> = Flat Oval Volume Damper, Ordinary    |
| <b>VL</b> = Volume Damper, Low Leak                                    | <b>OVL</b> = Flat Oval Volume Damper, Low Leak    |
| <b>MD</b> = Motorized Damper, Ordinary                                 | <b>OMD</b> = Flat Oval Motorized Damper, Ordinary |
| <b>ML</b> = Motorized Damper, Low Leak                                 | <b>OML</b> = Flat Oval Motorized Damper, Low Leak |
| <b>RVD</b> = Round Volume Damper, Ordinary                             | <b>GD</b> = Gravity Damper                        |
| <b>RVL</b> = Round Volume Damper, Low Leak                             | <b>RD</b> = Relief Damper                         |

**Size (mm) :-**

**FigurexFigure or ØFigure** = WidthxHeight or Diameter

- Example :** **FDC-1200x600** = Fire Damper, 3 Hr Fire Rating, ANSI/UL 555 & CAN ULC-S112, Size 1200 mm (Width) x 600 mm (Height)
- RML-Ø300** = Round Motorized Damper, Low Leak, Size 300 mm (Diameter)



Our factory is established on our own land, area 40,000 sq.m.(approx), in Kaengkhoi, Saraburi, Thailand.



Air Outlets Production Line

แผ่นหน้าอากาศแอร์



Dampers Production Line

แผ่นกักแควมเปอร์



Fire Steel Doors Production Line

Our products have been distributed to many countries worldwide :-



and will be distributed to a lot more countries in the future.



199/24-25 Vibhavadeerangsit Road, Samsennai, Payathai, Bangkok 10400, Thailand  
 Tel : +66 2 6160184, +66 2 6160185 Email : sales@pcjindustries.co.th Website : www.pcjindustries.co.th