



## Models of Dampers :

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



ISO 9001:2008 Certified  
Certificate No. FM 509124

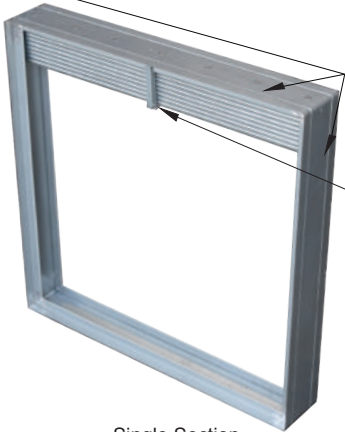
# Types of Fire Damper, Model : FDC

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

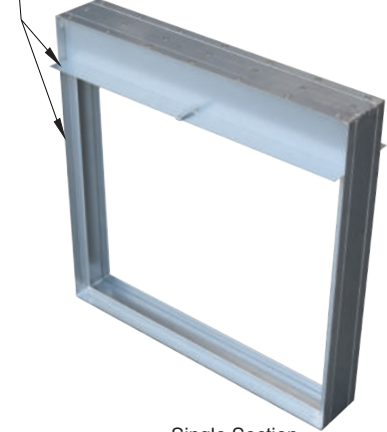


Single Section  
(without damper sleeve),  
In Airstream,  
normally open to let air flow through



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

Damper Sleeve, to connect to air duct using breakaway connections



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



**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.

*B. A. Mills*

Bruce Maheshkoti, Director North America 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-us/contact-us>



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EMME.R26041 - Dampers for Fire Barrier and Smoke Applications

**ONLINE CERTIFICATIONS DIRECTORY**

### EMME.R26041 Dampers for Fire Barrier and Smoke Applications

[Page Bottom](#)

#### Dampers for Fire Barrier and Smoke Applications

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

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

R26041

#### 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	48	96	96

Trademark and/or Tradename: Stream Air®

Last Updated on 2016-05-31

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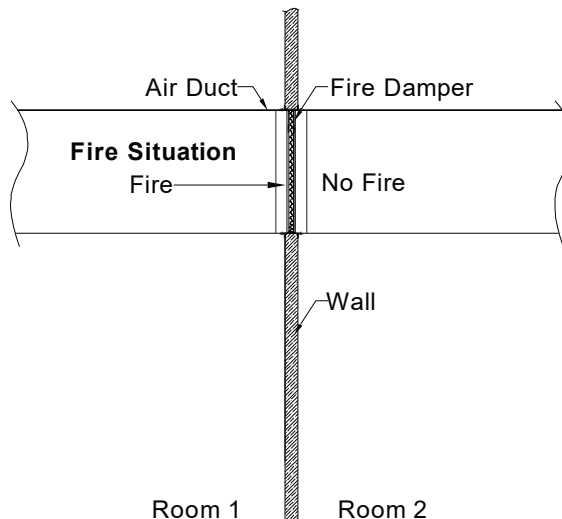
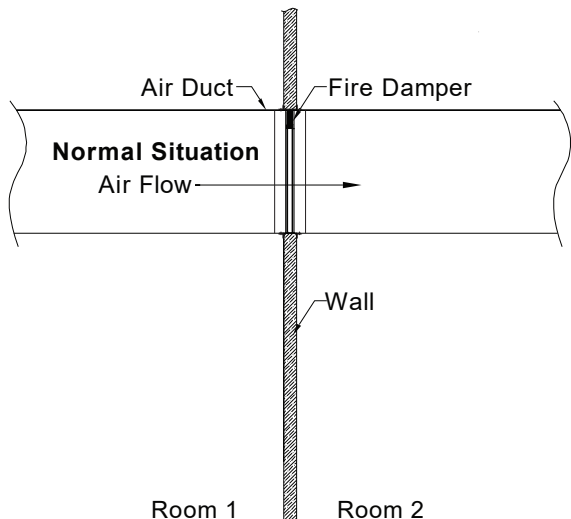
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# Example of Applications

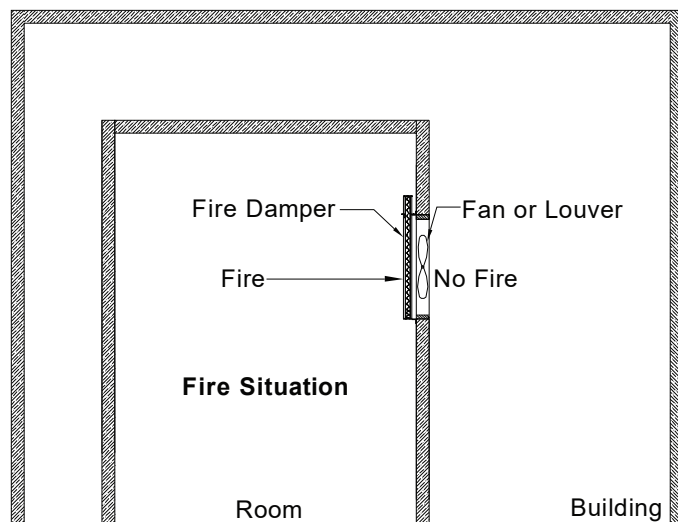
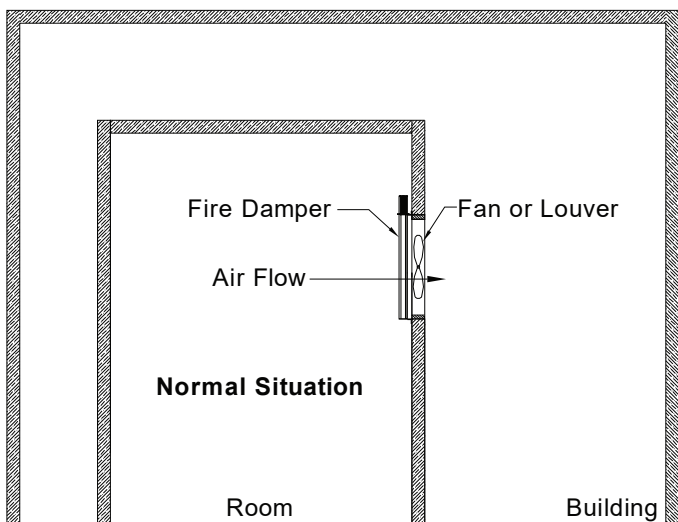
for Fire Damper, Model : FDC, 3 Hr Fire Rating, ANSI/UL 555 & CAN/ULC-S112 R26041



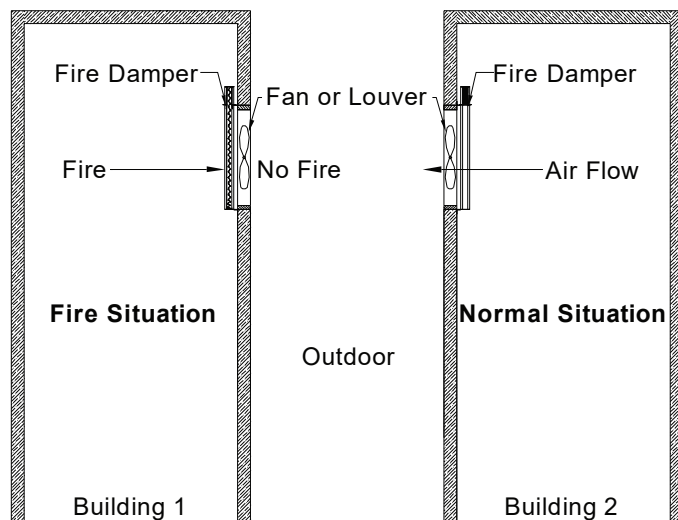
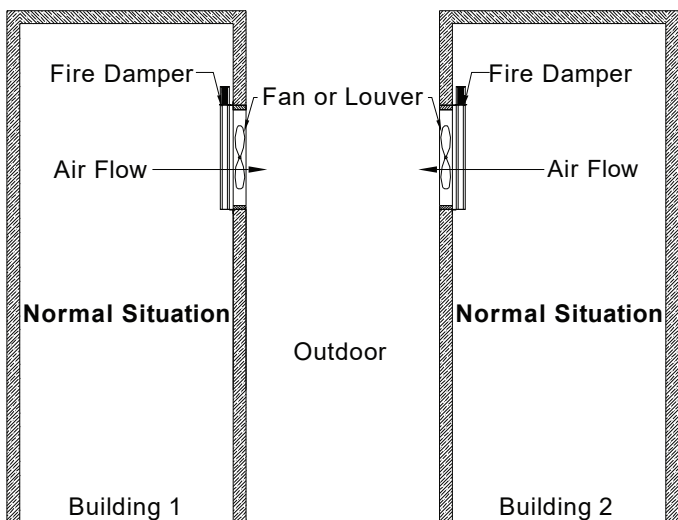
## Mounting in Air Duct Line Run through Wall



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



## Mounting with Fan or Louver on Wall of Building



# Other Dampers

## Model : FSD, Fire/Smoke Damper



Flange Type



Plain End Type  
with Damper  
Sleeve



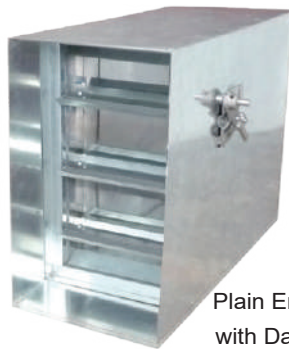
Plain End Type,  
Actuator  
outside Wall

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



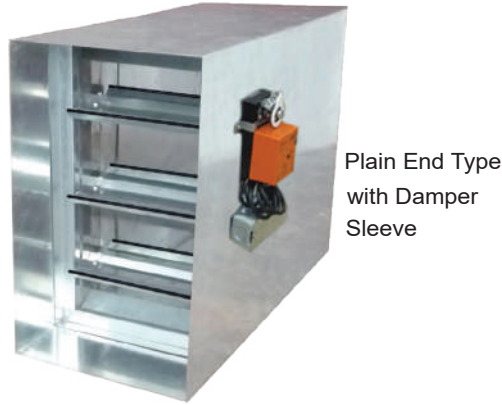
Plain End Type,  
Actuator  
outside Wall

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



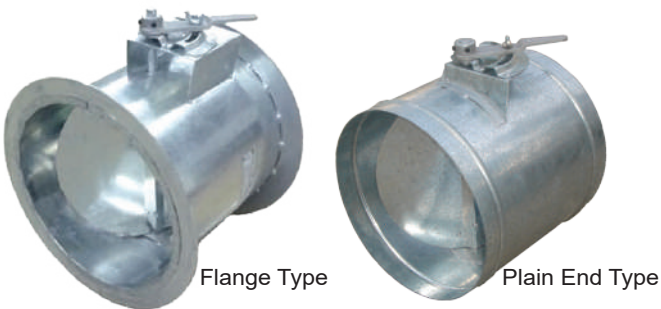
# Other Dampers

## Model : ML, Motorized Damper, Low Leak



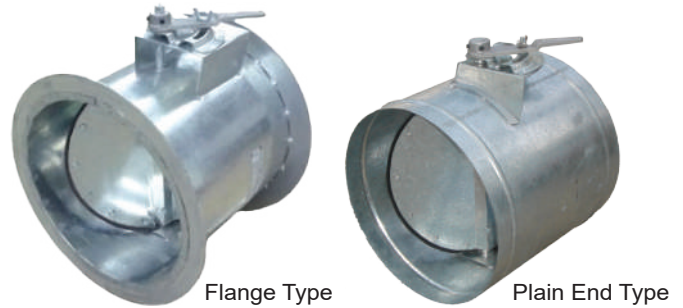
Suitable for mounting to duct lines, building walls or shafts to automatically control air volume of supply, exhaust, fresh or pressurized air where low leakage of air flow is strictly required.

## Model : RVD, Round Volume Damper, Ordinary



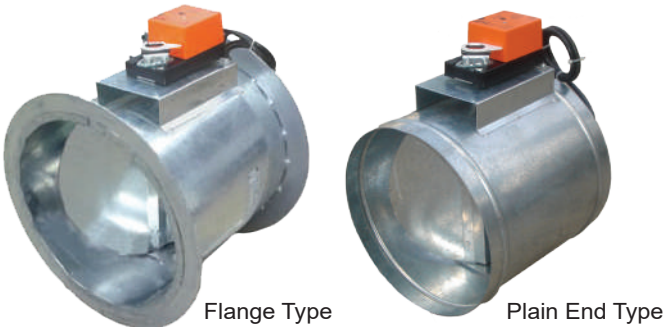
Suitable for connecting between flexible ducts and diffuser/grille plenums to manually control air volume of supply, exhaust or fresh air.

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



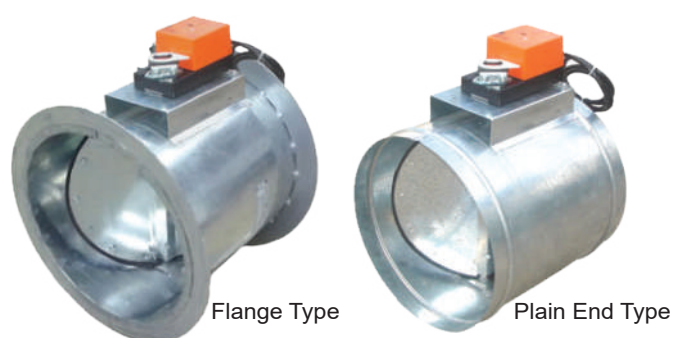
Suitable for connecting between flexible ducts and diffuser/grille plenums to manually control air volume of supply, exhaust or fresh air where low leakage of air flow is strictly required.

## Model : RMD, Round Motorized Damper, Ordinary



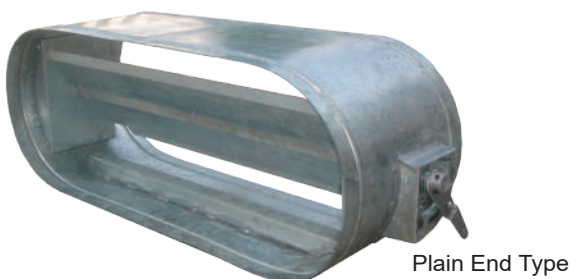
Suitable for connecting between flexible ducts and diffuser/grille plenums to automatically control air volume of supply, exhaust or fresh air.

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



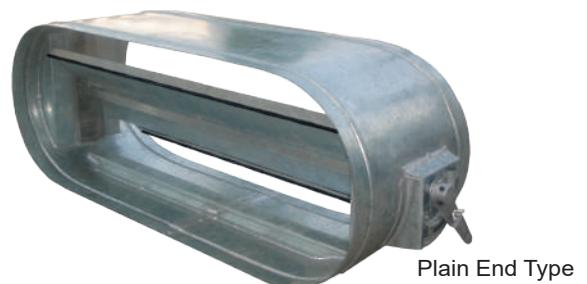
Suitable for connecting between flexible ducts and diffuser/grille plenums to automatically control air volume of supply, exhaust or fresh air where low leakage of air flow is strictly required.

## 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.

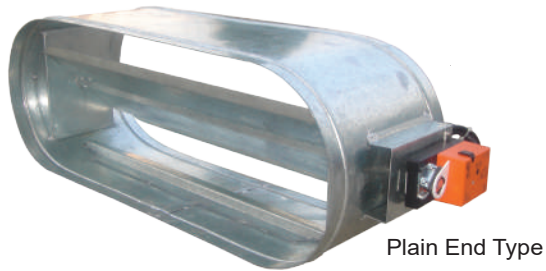
## Model : OVL, Flat Oval Volume Damper, Low Leak



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.

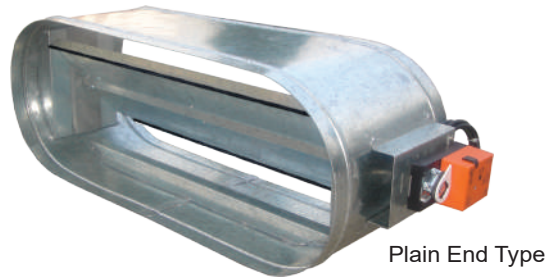
# Other Dampers

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



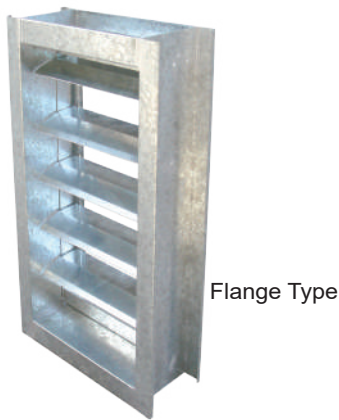
Suitable for mounting to flat oval duct lines to automatically control air volume of supply, exhaust or fresh air.

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



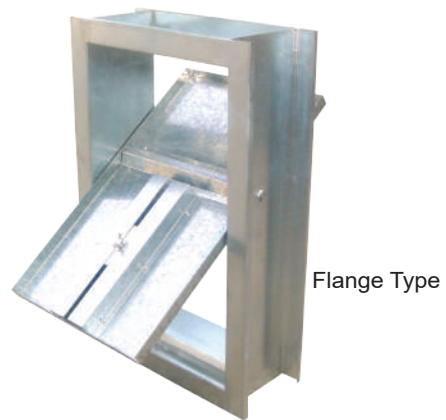
Suitable for mounting to flat oval duct lines to automatically control air volume of supply, exhaust or fresh air where low leakage of air flow is strictly required.

**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 :-

**FDC** = Fire Damper, 3 Hr Fire Rating, ANSI/UL 555 & CAN ULC-S112  
**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

### 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.



We,  **PCJ INDUSTRIES co.,LTD.**, was established in 1998, specialize in production of Fire Steel Doors, Fire Damper, Other Dampers, Duct Silencers, Acoustic Louvers, and Air Outlets.

Most of our products are certified by several organization for standardization, i.e.: Underwriters Laboratories, British Standards Instituion, Standards Australia, Air Diffusion Council, Thai Industrial Standards Institute. Moreover, our company is certified by International Organization for Standardization, ISO 9001:2008 as well.



Our factory is established on our own land, area 40,000 sq.m.(approx), in Kaengkhoi, Saraburi, Thailand. Our policy is always on-time production and delivery with quality, reliability, and competitively priced products. We have been investing in instruments and machines. Besides, we have experienced engineer teams taking full time to continuously research and develop our product lines, including new product designs to meet worldwide market demands.



**PCJ INDUSTRIES co.,LTD.**  
**พีซีเจ อุตสาหกรรม บจก.**

199/24-25 Vibhavadeerangsit Road, Samsennai, Payathai, Bangkok 10400, Thailand  
 Tel : +66 2 2701938, +66 2 2781604, +66 2 2794166, +66 2 6160184, +66 2 6160185  
 Fax : +66 2 2780451      Email : sales@pcjindustries.co.th      Website : www.pcjindustries.co.th

