



**NRD** *Non Return Damper*





## Introduction

With its parallel action blades, the non-return damper is designed to prevent backflow of air. It can also be used to automatically shut-off or isolate a section of the system to prevent ingress of undesirable vapour and vermin. The damper is opened by the air pressure differential between two sides and it closed by help of gravity.

It comes in vertical and horizontal installation configurations.

## CONSTRUCTIONS & MATERIALS

- Parallel blade action
- Available in vertical and horizontal configuration
- Damper sectioning :
  - Length < 625 = none
  - 650 < Length < 1225 = 1 sections
  - 1250 < Length < 1800 = 2 sections
  - Minimum size : 150 x 150 mm
  - Maximum size : 1000 x 1200 mm

### Construction Available



Stainless Steel

### Frame Construction



Galvanized Steel

### Blade Construction



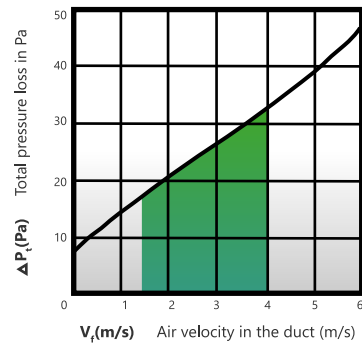
Aluminium  
(For length < 600mm)



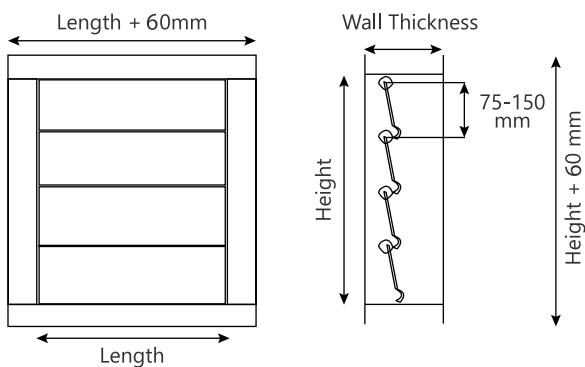
Galvanized Steel  
(For length > 600mm)

## PERFORMANCE STANDARD

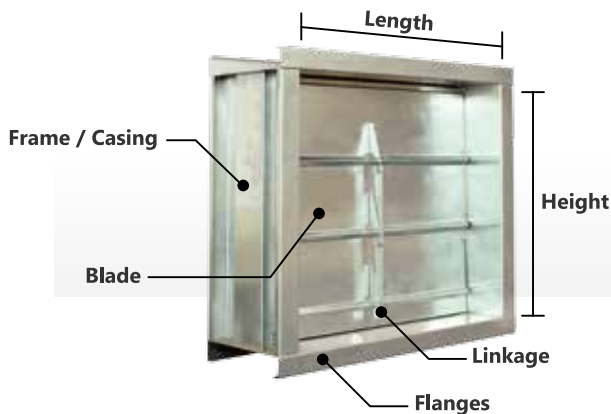
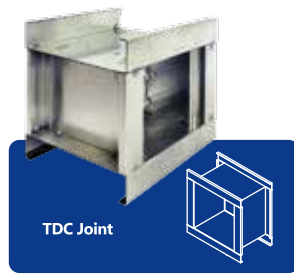
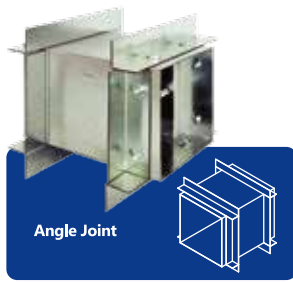
### TOTAL PRESSURE DROP



## DIMENSIONS



## JOINING METHODS



### Notice :

Damper size would be fabricate as exact neck size

## NRD TECHNICAL SPECIFICATION

### Casing Assembly

- 0.7mm – 1.0mm thick casing sections. Casing section to be welded externally with welding beads to be ground flush. Multiple modular to be provided for damper larger than 1000mm width x 1000mm height. Standard wall thickness to be 150mm, unless otherwise stated.
- Standard joining method to be in TDC joint, unless otherwise stated.
- Material provided to be galvanized steel, unless otherwise stated.

### Damper Blade Assembly

- 0.5mm thick single skin configuration. The individual blade to be in single V-grooves design. Blade operation to be of parallel blade action with linkage system. 6.0mm galvanized steel full length shaft to be provided for each blade section.
- Damper blade to be operated mechanical airflow pressure only.
- Material provided to be galvanized steel, unless otherwise stated.

### Linkage Assembly

- 15.0mm x 3.0mm thick linkage system to be reverted to every single blade. Individual linkage components to be secured with pins at pre-determined geometry locations to ensure accurate blade phasing.

### Linkage Cover & Side Seals

- 1.0mm pre-formed angles to be welded to the damper casing assembly to provide both blade stop and sealing functions.
- Material provided to be galvanized steel, unless otherwise stated.

### Finishing





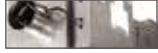


- Damper assembly to be in natural finish of the material.



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## Products Range

- Grilles 
- Diffusers 
- Dampers  ◀
- Fire & Smoke Protection 
- VAV 
- Others 
- Accessories 



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