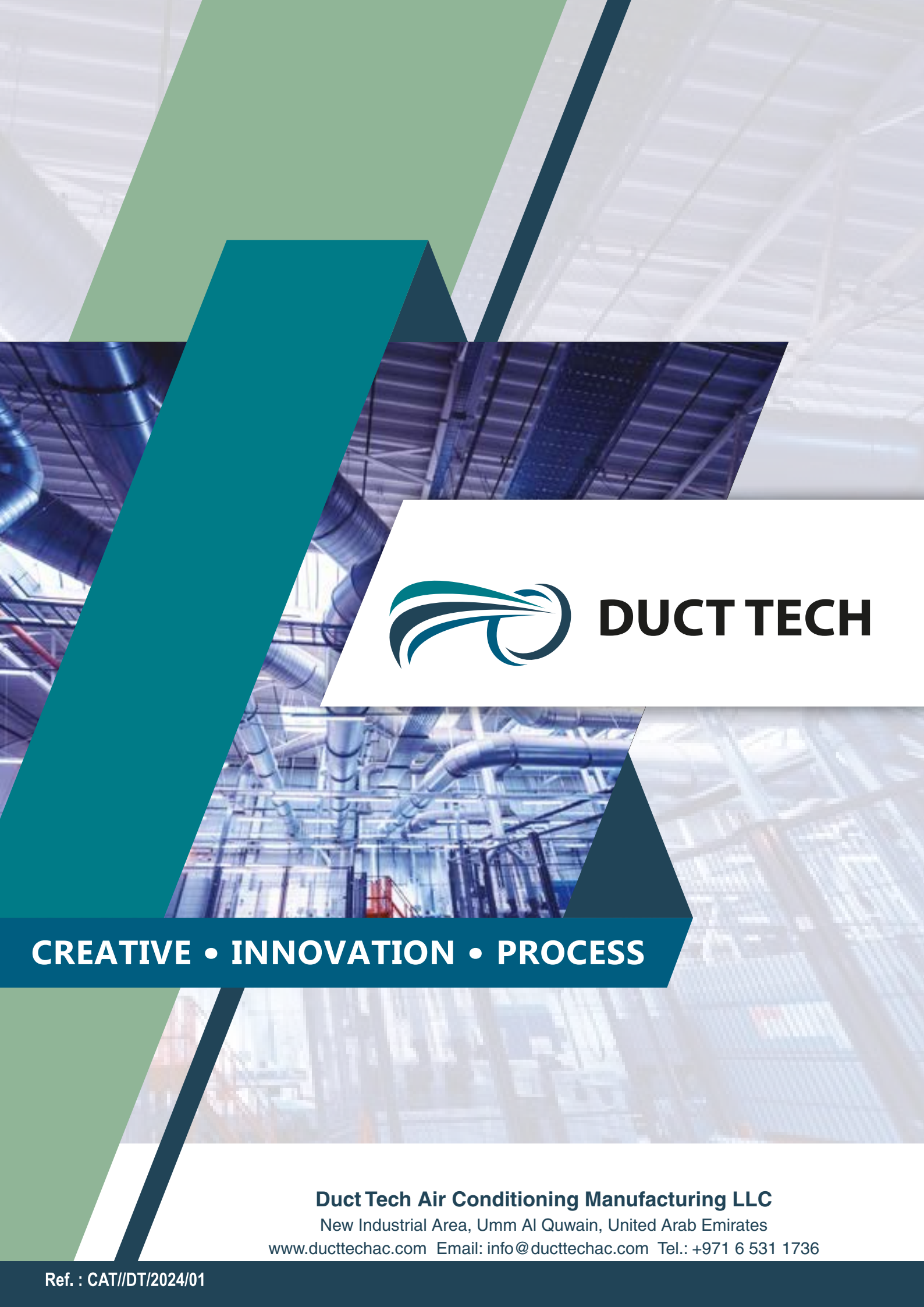

DUCT TECH

CREATIVE • INNOVATION • PROCESS

Duct Tech Air Conditioning Manufacturing LLC
New Industrial Area, Umm Al Quwain, United Arab Emirates
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Ref. : CAT//DT/2024/01

DUCT TECH VOLUME CONTROL DAMPER

Volume Control Damper

DUCT TECH's Volume control dampers or Balancing dampers are designed to balance air to Individual areas. This unit comes with complete manual quadrant or Motorized actuators. Volume Control Dampers can be manufacture with galvanized steel, stainless steel and aluminum. Dampers suitable for the systems requiring air control and low closed blade leakage characteristics. Low torque characteristics.

DUCT TECH Air-Conditioning offer followings types of Volume Control Dampers.

Features :

Operation : Opposed Blade or Parallel Blade.
Frame : Roll formed made in Automatic machine for consistency in Quality.
Busing : Available in Nylon / Bronze / Brass and Steel.
Linkage : Galvanized Or Stainless Steel.
Low Leakage Type.
Gasket : Rubber Foam , Silicon or Neoprene.
Locking Devise : Galvanized steel Manual quadrant with clear marking of open and close position.

DT-RD-VCD-G-G-10

Features:
Frame: 22 gauge to 12 Gauge galvanized steel , Carbon Steel or Stainless Steel.
Blade: 22 gauge galvanized steel sheet.
Bush : Nylon / Brass/ Bronze.
Gasket : Rubber foam / Neoprene / Silicon fire rated.

DT-RD-VCD-G-G-20-LK

Features:
Duct Tech Round Volume Control Damper Model DT-RD-VCD-G-G-20-LK is Zero or extremely low leakage round volume control damper.
Frame: 22 gauge to 12 Gauge galvanized steel, Mild Steel or Stainless Steel.
Blade: 22 gauge galvanized steel sheet.
Bush : Nylon / Plastic / Brass.
Gasket : EPDM double skin overlapping blade gasket.

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DUCT TECH VOLUME CONTROL DAMPER

DT-VCD-G-AL-22-OP

Specification:

Operation: Opposed blade movement.

Frame: Roll Formed , Hat Shaped , made from Galvanized Steel from 1.00MM or 1.50MM thickness.

Blade: Aerofoil, double walled, 1.20 mm wall thickness extruded aluminum profile.

Linkage: Internal Galvanized steel. Stainless steel option available.

Bush : Nylon standard, Option available with Plastic / Brass.

Gasket : Rubber foam Standard Option available with Neoprene or Silicon fire rated.Fixing: Integral Flange option

available Box type / Slip and Clip External ange.

Option Available with frame

thickness of up to 12 gauge galvanized steel sheet.

DT-VCD-G-GI-22-OP

Features:

Operation: Opposed blade movement.

Frame: Roll Formed , Hat Shaped , made from Galvanized Steel from 1.00MM or 1.20MM thickness.

Blade: Aerofoil, double walled, 1.60 mm equivalent thickness galvanized steel sheet.

Linkage: Internal Galvanized steel or External Stainless Steel.

Bush : Option available Nylon / Plastic / Brass.

Gasket : Option available Rubber foam / Neoprene / Silicon fire rated.

Fixing: Box type / Slip and Clip / Integral ange / External ange

Option Available with frame thickness of up to 12 gauge galvanized steel sheet.

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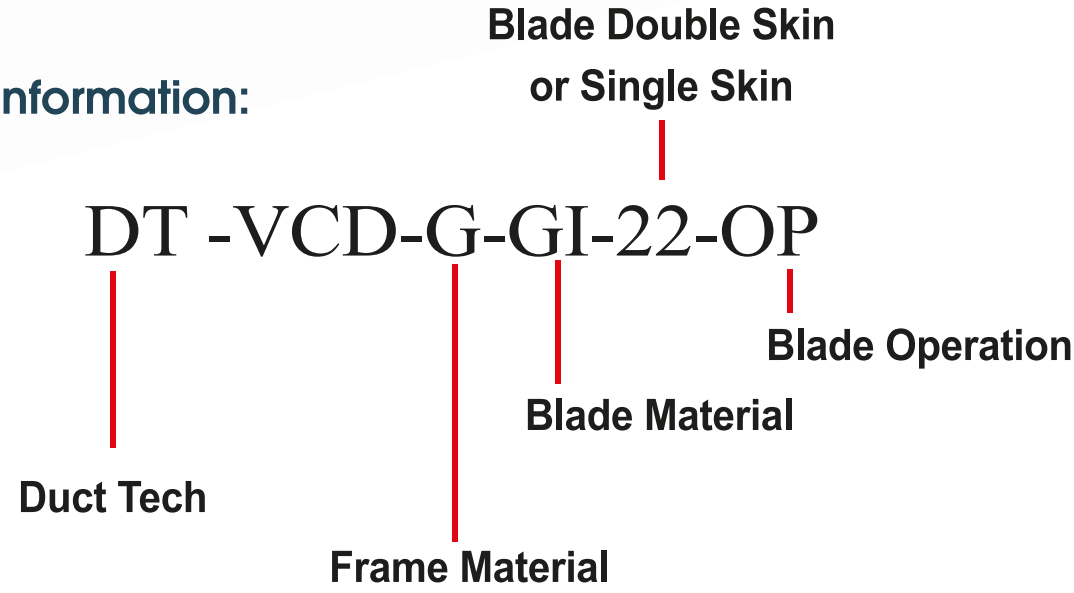
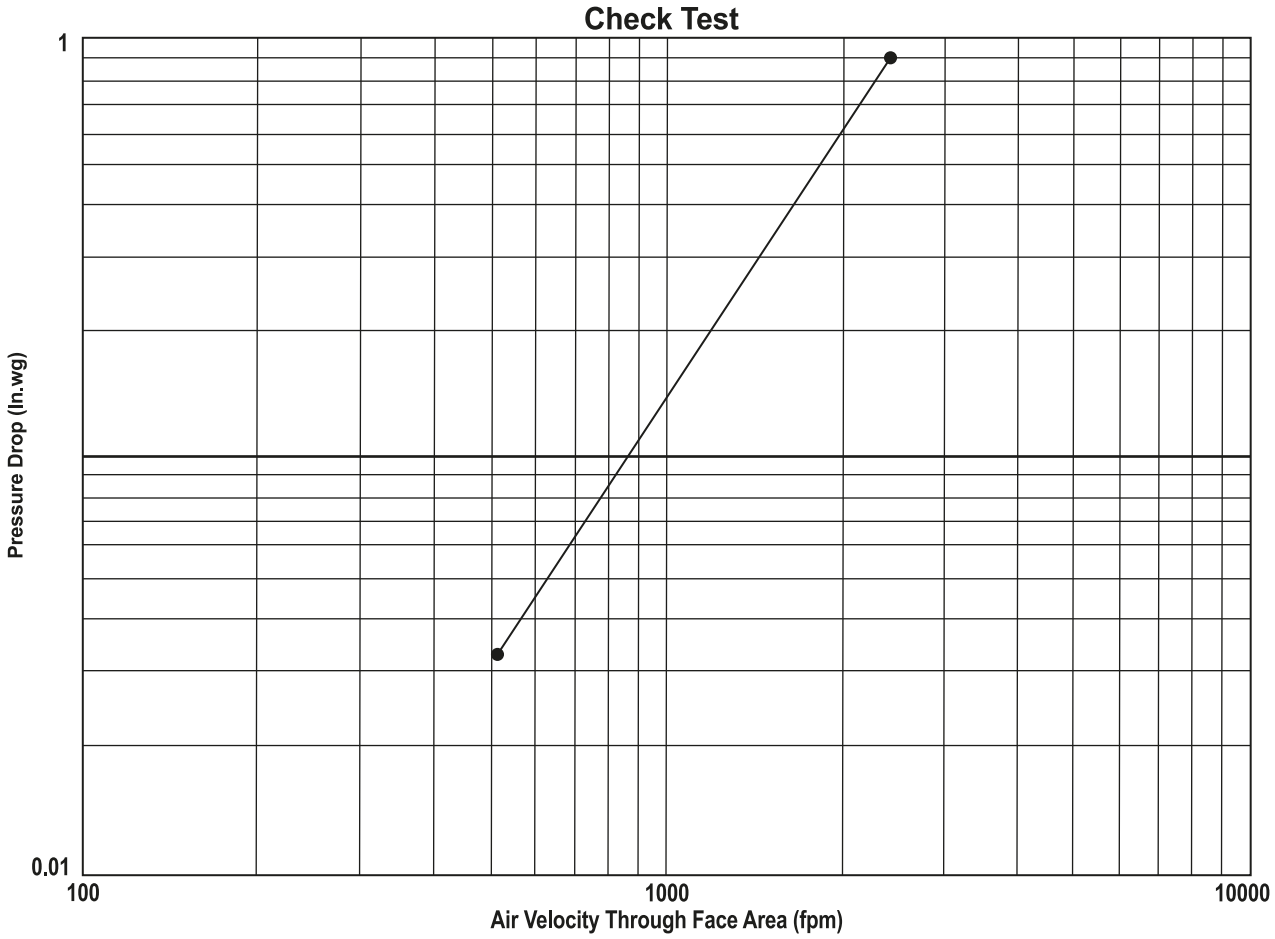
Ordering Information:



Performance characteristics



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DUCT TECH ACCESS DOORS

ACCESS DOORS

Duct Access doors are used where to access is required for maintenance, cleaning or adjustment. The Duct Tech Access Door provides quick Easy and Economical option wherever duct access is needed. Cam-lock system assures the tight closure and continuous piano hinges model provide smooth operation.

Access Doors features

Meet SMANCA Construction standard for system upto 2000 pa.

Available in 1" or 2" Insulation.

Plated steel cam-lock fastener.

Notched lock over tap.

Positive seal polyethylene or neoprene or Ceramic Gasket.

Model DT-AD-10 / 20

Frame : Frame is roll formed from Galavanized Steel or Stainless Steel from 0.70MM to 2.00MM thickness.

Door is manufactured from double skin galvanized steel sheet with fiberglass insulation of 24 to 48 kg/M3 density inside.

Cam-lock: Galvanized steel quick release cam-lock is provided for positive closure.

Gasket: 1" wide neoprene or rubber foam gasket is provided for positive closure.

Also available in Stainless steel and Aluminum construction.

Also Available in 2" thick insulation.

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Model DT-ADH-10 / 20

Frame : Frame is roll formed from Galavanized Steel or Stainless Steel from 0.70MM to 2.00MM thickness.
Door is manufactured from double skin galvanized steel sheet with fiberglass insulation of 24 to 32 kg/M3 density inside.
Cam-lock: Galvanized steel quick release cam-lock is provided for positive closure.
Piano Hinges: Continuous piano hinges are provide on one side of the door.
Gasket: 1 " wide neoprene or rubber foam gasket is provided for positive closure.
Also available in Stainless steel and Aluminum construction.
Also Available in 2" thick insulation.

Model DT-ADH-C-10 / 20

Frame : Frame is roll formed from Galavanized Steel or Stainless Steel from 0.70MM to 2.00MM thickness.
Door is manufactured from double skin galvanized steel sheet with fiberglass insulation of 24 to 32 kg/M3 density inside.
Cam-lock: Galvanized steel quick release cam-lock is provided for positive closure.
Piano Hinges: Continuous piano hinges are provide on one side of the door. Safety change is provided as a additional safety feature.
Gasket: 1 " wide neoprene or rubber foam gasket is provided for positive closure.
Also available in Stainless steel and Aluminum construction.
Also Available in 2" thick insulation.
Standard Available Sizes:

Model FR - DT-AD-10 / 20

Frame : Frame is roll formed from Galvanized Steel or Stainless Steel from 1.00MM thickness.
Door is manufactured from double skin 1.00MM galvanized steel sheet with Mineral wool insulation of 96 kg/M3 density inside.
Locking Devise : Stainless steel / Galvanized Steel wing nut is used for locking devise.
Gasket: 1" wide , Ceramic fire rated gasket is used for positive closure.
Also available in Stainless steel and Mild Steel Construction
Also Available in 2" , 3" 4" or 6" thick insulation.

1	4" x 4"	6	10 " x 8"
2	4" x 6"	7	10" x 10"
3	6" x 6"	8	12" x 10"
4	6" x 8"	9	12"x 12"
5	8" x 8"	10	14" x 14"

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DUCT TECH FIRE DAMPER

A device used to restrict the passage of flame or Hot Air through the ductwork of an air system. A fire damper installed in a fire-rated wall or floor and closes automatically to maintain the integrity of that partition

Features:

DUCT TECH range of fire damper is available in Mechanical as well as motorized operation.
Duct Tech fire damper Complies with UL555 and UL555S standard.
Fire Damper are available in Galvanized steel as well as stainless steel construction.
Installation available in Vertical as well as horizontal wall, slab with concrete or Gypsum partition.
Frame thickness available in the range of 22 gauge (0.80MM) up to 16 gauge (1.60MM).
Blade thicknesses available in the range of 24 gauge up to 16 gauges.

DT-FD-180

Complies with UL555 and UL555S standard for 180 Min (3 Hrs) fire Rating fire damper which can be use up to 180Min (3Hr) rating fire partition Duct Tech Fire damper complies for static and dynamic system.
Frame is made out of Galvanized Steel or Stainless Steel with thickness ranges from 0.80MM to 1.60MM.
Blade is made out of galvanized steel or stainless steel with thickness ranging from 0.70MM to 1.60MM.
Fusible Link : UL listed fusible link 165 F or 212 F or 312 F
Spring: Two stainless steel coil spring.
Ramp: Spring holder is manufactured from galvanized steel of stainless steel.
Installation : Vertical or Horizontal.
Option available with 12", 14" or 16" sleeve or Installation frame.

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DT-FDSL-180

Complies with UL555 and UL555S standard for 180 Min (3 Hrs) fire Rating fire damper which can be use up to 180Min (3Hr) rating fire partition Duct Tech Fire damper complies for static and dynamic system.

Frame is made out of Galvanized Steel or Stainless Steel with thickness ranges from 0.80MM to 1.60MM.

Blade is made out of galvanized steel or stainless steel with thickness ranging from 0.70MM to 1.60MM.

Fusible Link : UL listed fusible link 165 F or 212 F or 312 F

Spring: Two stainless steel coil spring.

Ramp: Spring holder is manufactured from galvanized steel of stainless steel.

Installation : Vertical or Horizontal.

Option available with 12", 14" or 16" sleeve or Installation frame.

Fire Damepr Installation:

1. Fire Damper to be installed in plain wall or gypsum partition or Horizonal slab.
2. Breakaway joint to be installed with the sleeev and the ductwork.
3. Expansion clearance between the fire damper sleeve and the wall opening must be ¼" inch larger than the damper size for the damper size up to 24 inch and additional 1/8" per linear foot increase in the damper size.
4. Damper to Duct Connection: Damper has to be connected to duct as per the fig : 3.
5. Retaining angle to be provided on both side of damper , 18 gauge galvanized steel angle 1" width and 1" height.

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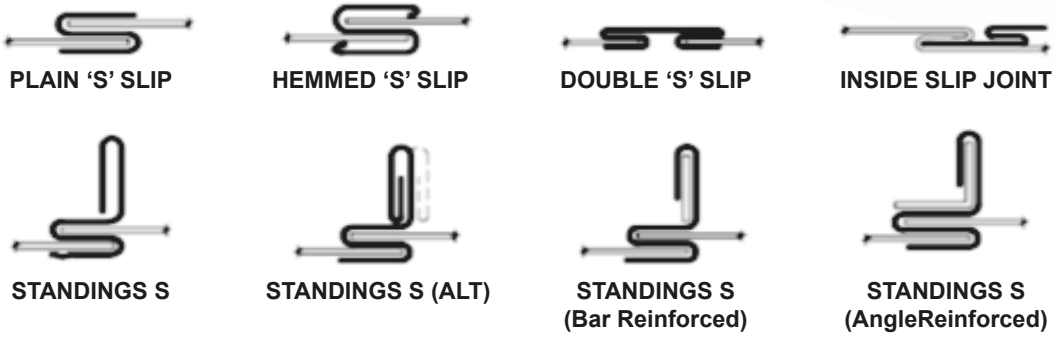
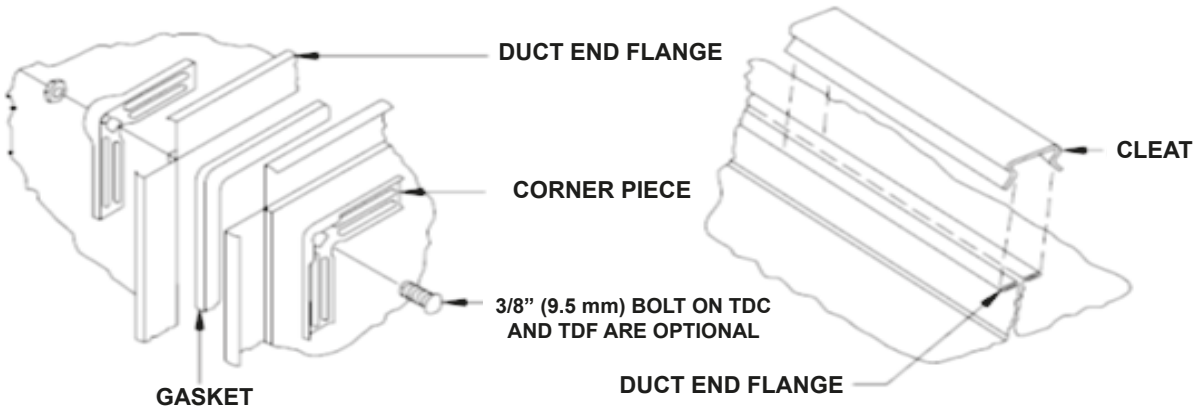
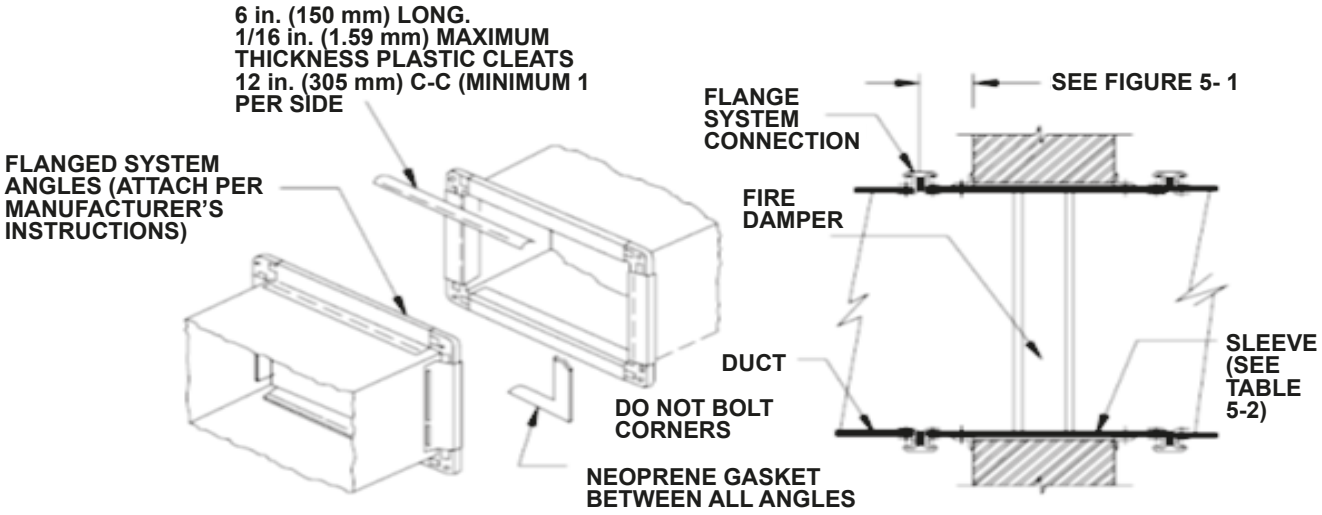
1. **DUCT- SLEEVE CONEECTIONS LISTED IN UL 555. SIXTH EDITION. *STANDARD FOR FIRE DAMPERS.***



(D) TDC AND TDF ROLL-FORMED 4-BOLT FLANGED CONNECTIONS ASSEMBLED PER THE MANUFACTURER'S INSTRUCTIONS USING GASKETS, METAL CLEATS AND FOUR 3/8 IN (9.5 mm) METAL NUTS AND BOLTS.



(E) MANUFATURED SLIP ON 4-BOLT FLANGED CONNECTIONS ASSEMBLED PER THE MANUFACTURER'S INSTRUCTIONS USING GASKETS AND PLASTIC CLEATS AS SHOWN BELOW.



(UL TESTED CONNECTIONS)

DUCT TECH PIN

STUCK UP PIN

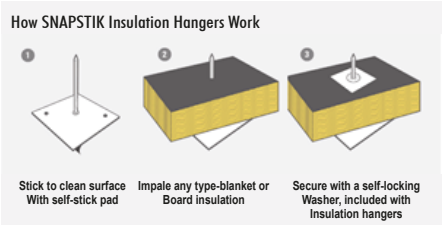
Self Adhesive Insulation Hanger Pin , Stuckup Pin is used to attached the insulation with duct made of Galvanized , Mild Steel or stainless steel.

Insulation hanger pin has three main component :

1. Base plate : 2" (50 MM) or 1 3/8" (35MM) Galvanized Steel.
2. Nail : Starting from 1" till 8" (Made from Galvanized Steel , Aluminum)
3. Washer

Applications:

- Insulation pins are applied where noise insulation need to be attached
- HVAC ducting
- Marine applications.
- Oil and gas applications.



INSTALLATION GUIDELINE FOR VARIOUS DUCT TECH PIN's

INSTALLING SELF ADHESIVE DUCT TECH PIN's

1) Wipe surface clean. Self-adhesive backing Pin must be applied to clean dry surface

2) Peel off release backing.

3) Press base firmly into position applying firm pressure. Very firm finger pressure should be applied around the base of the anchor.

4) Secure the insulation with self-locking washer. Bend over or clip off excess nail.

INSTALLING PERFORATED PIN's WITH ADHESIVE APPLICATION

1) Wipe surface clean. Perforated base must applied to a clean dry surface.

2) Apply Mastic adhesive to the base.

3) Install insulation after adhesive is dry.

4) Secure the insulation with self-locking washer. Bend over or clip off excess nail.

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WELD PIN

Duct Tech weld Pins are used to permanently secure insulation to the sheet metal. Duct Tech pin are designed and manufactured to work in any standard resistance welding equipment.

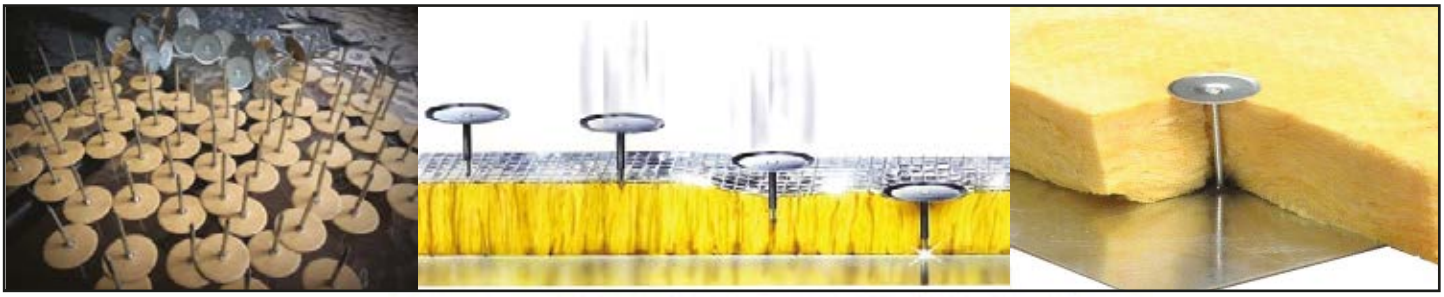
Feature:

- Cup Head prevents linear tear.
- Superior strength.
- Faster operation.
- Unmatched Product Consistency.
- Fire Resistance as no glue or adhesive are involved

Process:

1. Contact
2. Ignition
3. Placement of Pin
4. Completion of Pin weld.

INSTALLING CUP HEAD WELDING PIN's



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