

# AFS CONNECTOR

## FLEXIBLE DUCT CONNECTOR

### APPLICATION

- **AFS CONNECTOR** is specifically designed for heating, cooling, ventilation and air conditioning systems.
- **AFS CONNECTOR** are used to connect mechanical equipment and rigid air duct or two rigid air ducts, providing dampening against vibration and absorbing lateral movements.

### GENERAL PROPERTIES

- **AFS CONNECTOR** are leak proof (airtight & water proof).
- They are suitable for rectangular, oval and circular applications and easy to install.

### LOCKING SYSTEM

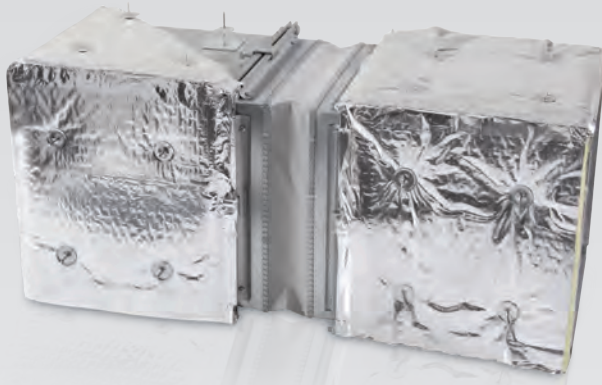
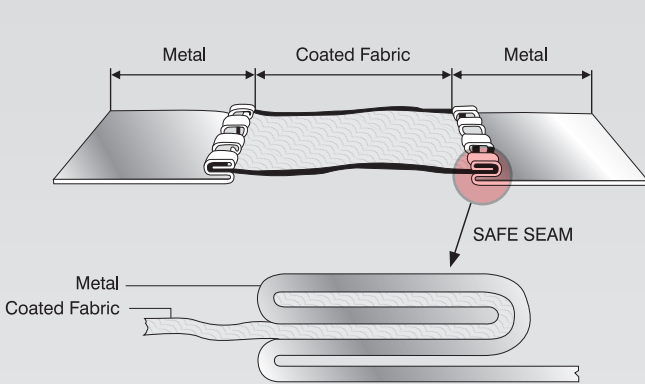
- **AFS CONNECTOR** are produced using a special SAFE SEAM technique from galvanized steel plate + coated fabric + galvanized steel plate. The SAFE SEAM clamp system ensures that the coated fabric and the galvanized steel plates are inseparable.

### COATING TYPE

- **AFS CONNECTOR** can be produced of **PVC**, **SILICONE**, **PU**, **NEOPRENE** or **CANVAS** as per application requirements.

### SPECIAL SIZE

- 100 x 120 x 100 mm AFS CONNECTOR's wide galvanized steel plates make it compatible with roll forming and flange manufacture systems.











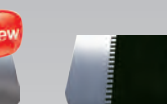
## Circular Polyurethane Connector Kit “M0”

### In Order to Prevent Noise and Vibration...

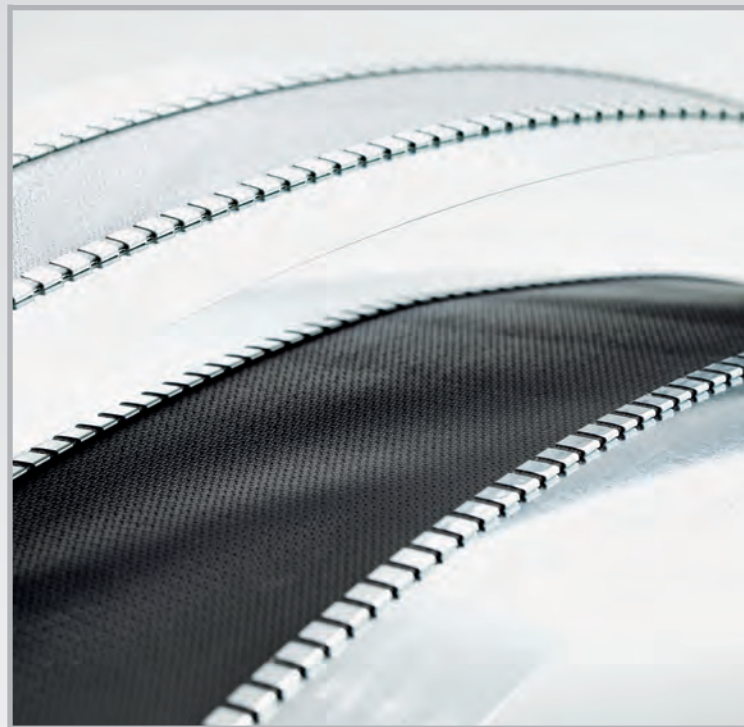
- AFS Circular Duct connector is the perfect solution for noise and vibration caused by ventilation equipment transmitted through air duct system.
- The Circular Connector is available in kit form with two fastening metal clamps in plastic bags.



AVAILABLE DIAMETERS Ø (mm)														
Ø 100	Ø 125	Ø 160	Ø 200	Ø 250	Ø 315	Ø 355	Ø 400	Ø 450	Ø 500	Ø 560	Ø 630	Ø 700	Ø 800	

								
<b>TYPES</b>	<b>PVC</b>	<b>PVC ATEX</b>	<b>PU</b>	<b>NEOPRENE</b>	<b>SILICONE</b>	<b>CANVAS</b>	<b>PU FORTE</b>	<b>NEOPRENE FORTE</b>
<b>Base Fabric</b>	Polyester	Polyester	Fiberglass	Fiberglass	Fiberglass	Cotton	Fiberglass	Fiberglass
<b>Coating</b>	PVC (Both Sides)	PVC (Both Sides)	PU (Both Sides)	Neoprene (Both Sides)	Silicone (Both Sides)	Chemical Coating	PU (Both Sides)	Neoprene (Both Sides)
<b>Color</b>	Grey & Black	Black	Grey & Black	Black	Grey	Green	Grey	Black
<b>Temperature Range</b>	-30 °C / +80 °C	-30 °C / +80 °C	-30 °C / +100 °C	-30 °C / +100 °C	-30 °C / +250 °C	+80 °C	-30 °C / +100 °C	-30 °C / +100 °C
<b>Construction</b>	Galvanized Steel Plate + Coated Fabric + Galvanized Steel Plate						Galvanized Steel Plate + <b>Heavy</b> Coated Fabric + Galvanized Steel Plate	
<b>Packing</b>	Single Cardboard Box							
<b>Fire Resistance</b>	Fire Retardant	Fire Retardant	Fabric: non-combustible Coating: Fire Retardant	Fabric: non-combustible Coating: Fire Retardant	Fabric: non-combustible Coating: Fire Retardant	Fire Retardant	Fabric: non-combustible Coating: Fire Retardant	Fabric: non-combustible Coating: Fire Retardant
<b>Specifications</b>	Suitable for general applications  Economical choice	Suitable for protective systems in potentially explosive atmospheres to ensure ebaut safety.  EN 13463-1 Surface Conductivity Resistance < 10 <sup>9</sup>	High Resistance to abrasion  Suitable for high temperature applications for a certain period of time (400 °C / 2 hours)	Suitable for high velocity applications and outdoor conditions  High resistance to alkalis and gasoline	Suitable for high temperature applications (+400 °C / 2 hours)  High resistance to weathering and chemicals	Versatile and cost effective  Resistant to humidity and mildew	High Resistance to abrasion  Suitable for high temperature applications for a certain period of time	Suitable for high velocity applications and outdoor conditions  High resistance to alkalis and gasoline

FIRE CERTIFICATES	PVC	PVC ATEX	PU	NEOPRENE	SILICONE	CANVAS	PU FORTE	NEOPRENE FORTE
France	-	-	M0	-	-	-	-	-
USA	UL 723	-	UL 723	UL 723	-	-	-	UL 723 (Class 1)
USA	-	-	NFPA 701 (Formerly UL 214)	NFPA 701 (Formerly UL 214)	-	NFPA 701 (Formerly UL 214)	NFPA 701 (Formerly UL 214)	NFPA 701 (Formerly UL 214)
Spain	-	-	F-400 (400 °C / 2 hours)	-	F-400 (400 °C / 2 hours)	-	-	-



Metal + Coated Fabric + Metal	Length	Cardboard Box
35 mm x 60 mm x 35 mm	25 m	430 mm x 180 mm x 430 mm
35 mm x 60 mm x 35 mm	50 m	500 mm x 180 mm x 500 mm
45 mm x 60 mm x 45 mm	25 m	430 mm x 180 mm x 430 mm
45 mm x 60 mm x 45 mm	50 m	500 mm x 180 mm x 500 mm
45 mm x 75 mm x 45 mm	25 m	430 mm x 180 mm x 430 mm
45 mm x 75 mm x 45 mm	50 m	500 mm x 180 mm x 500 mm
45 mm x 100 mm x 45 mm	25 m	430 mm x 180 mm x 430 mm
45 mm x 100 mm x 45 mm	50 m	500 mm x 180 mm x 500 mm
70 mm x 100 mm x 70 mm	25 m	430 mm x 250 mm x 430 mm
70 mm x 100 mm x 70 mm	50 m	500 mm x 250 mm x 500 mm
*45 mm x 150 mm x 45 mm	25 m	430 mm x 250 mm x 430 mm
*45 mm x 150 mm x 45 mm	50 m	500 mm x 250 mm x 500 mm
*50 mm x 150 mm x 50 mm	25 m	430 mm x 180 mm x 430 mm
*50 mm x 60 mm x 50 mm	50 m	500 mm x 180 mm x 500 mm
*70 mm x 150 mm x 70 mm	25 m	430 mm x 300 mm x 430 mm
*70 mm x 200 mm x 70 mm	25 m	500 mm x 300 mm x 500 mm
*100 mm x 120 mm x 100 mm	25 m	430 mm x 360 mm x 430 mm

- 100 ft., 150 ft. AVAILABLE
- \* Subject to minimum order quantity

# TECHNO FLEX™

## TECHNO FLEX™

### FLEXIBLE DUCT CONNECTOR

**TECHNO**  
**METAL**  
S.A.E

تكنوميٲال



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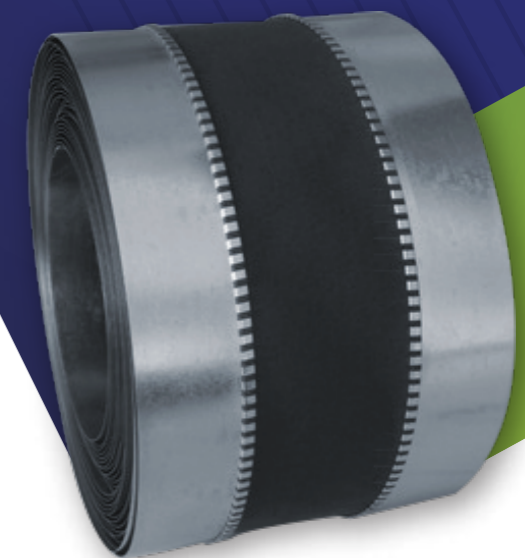
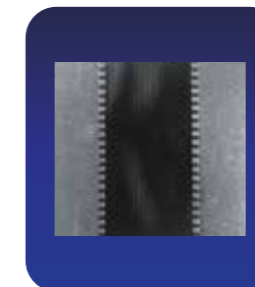
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**TECHNO**  
**METAL**  
S.A.E

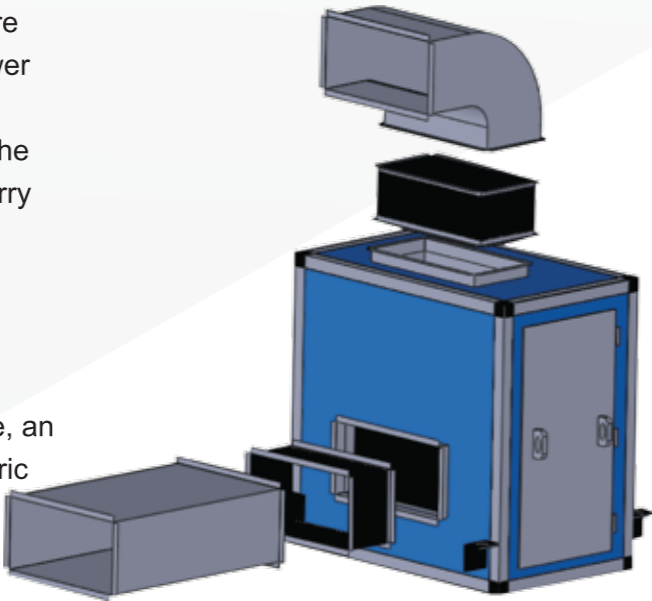
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# TECHNO FLEX™

## Flexible Duct Connector For Eliminating duct System Noise and Vibrations

All air duct installation for Heating, Cooling or Ventilation are attached to mechanical equipment containing a fan or blower (AHU, FCU, EX. Fan, Fresh air Fan,.....etc.). Vibrations, Noises and Rattles resulting from operation of the fan or blower are transmitted into the metal ducts which carry the noises throughout the system.



### Applications:

In order to Isolate the noise and vibrations from the source, an air tight flexible joint (connector) consisting of a special fabric which is attached to sheet metal on both sides, must be inserted between the equipment and the ductwork, this flexible joint is called **a Flexible Duct Connector**.

### Double Lock:

The seam which is connecting the steel sides with the fabric must to be strong and airtight.



### Fabric Features:

1. Fabric with PVC coating is the most commonly used for all air duct installations due to its high strength and high abrasion resistance, airtight and waterproof construction.
2. Fabric with polyurethane coating is extremely suitable for most of applications where a good temperature resistance and high chemical resistance, airtight and waterproof construction.
3. Fabric with silicone coating has a special silicone rubber coating that has excellent resistance to high and low temperatures , silicon is extremely resistant to chemicals and ozone , and emits very low smoke emission and waterproof construction.

# TECHNO FLEX™

### Construction:

Different combination of metal / fabric are available to provide the optimum solution, high performance and economy



	Techno Flex PVC	Techno Flex PU	Techno Flex Silicone
Construction	Galvanized Steel Strip – Coated Fabric – Galvanized Steel Strip **(Stainless Steel Strips is available with Special order)		
Galvanized Steel Strip Thickness	0.40 mm +/- 0.05 mm **(Other thicknesses are available with Special order)		
Basic Fabric	Polyester	Fiber Glass	Fiber Glass
Coating	PVC on both sides	PU on both sides	Silicone on both sides
Color	Black	Grey	Silver Grey
Temperature Range	-30 °C / +80 °C	-30 °C / +180 °C Tolerates 200°C for short periods	-40 °C / +250°C Tolerates 280 °C for short periods
Coated Fabric Thickness	0.50 mm +/- 0.05 mm	0.42 mm +/- 0.05 mm	0.42 mm +/- 0.05 mm
Coated Fabric Weight	550 g/m2 +/- 50 g	490 g/m2 +/- 30g/m2	510 g/m2 +/- 30g/m2
Standard Dimensions	45 mm x 75 mm x 45 mm , 70 mm x 100 mm x 70 mm and 45 mm x 100 mm x 45 mm ** (Other Steel / Fabric Dimensions are available with Special order)		
Standard Length	25 m for Egyptian Market and 100 Ft (30 m) for Gulf Market		
Paking	Double Reinforced Cardboard Box + Duplex with UV Protection		
Fire Resistance	Fire Retardant – Self Extinguishing	Non-flammable – M0 Approval	Non-Flammable – M0 Approval , A2-S2,d0 ***
Certificate	Complies with UL-181 Class I	NF P 92-507 Complies with UL-181 Class I	NF P 92-507 , NF EN 13823 , ASTM E 84 Complies with UL-181 Class I

#### Notes:

\*PU: Polyurethane

\*\*Special Order: Minimum Order Quantity "MOQ" will be required

\*\*\* A2 for fire behavior, S2 for smoke production & d0 for flaming droplets