

Lindab **Flexible Duct Connector FVA**

Assembly instruction

Flexible Duct Connector

FVA

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Perfect solution for noises and vibrations

All air duct installations for heating or ventilation are attached to mechanical equipment containing a fan or blower. This equipment causes vibrations and noises which are transmitted in the metal ducts throughout the installation.

In order to isolate vibrations and noises caused by air handling units, fans and other equipments, it is highly recommended to install an airtight flexible joint between the outlet of the device and the ductwork. This joint, consisting of a fabric which is attached to a sheet of metal on both sides is called a "Flexible Duct Connector".

It is necessary to select an airtight and flexible cloth with good weathering qualities and which can withstand temperatures inside and outside the duct. FVA flexible connectors are perfect for this job.

Flexible duct connector

It gives a great strength, nothing comparable to classical singlefold methods. Flexible duct connector minimize sound and vibrations between the air handling unit / fan and the ductwork and fits both rectangular and circular applications. For residential or light commercial applications.

- manufactured with thickness 0,4 mm galvanized steel.
- available with 1.4301 or 1.4404 stainless steel on request.

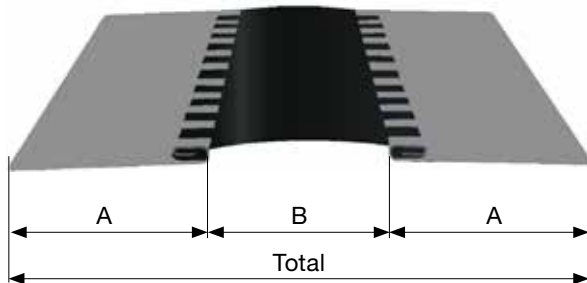


Flexible Duct Connector

FVA

Dimensions

0,4 mm steel thickness (European standard)



A = steel width
B = fabric width

Length Roll m	Width in mm			Material
	A mm	B mm	Total mm	
25	35	60	130	PU
25	45	60	150	PU
25	70	100	240	PU
25	35	60	130	NEO
25	45	60	150	NEO
25	70	100	240	NEO
25	35	60	130	SI
25	45	60	150	SI
25	70	100	240	SI
25	35	60	130	PVC
25	45	60	150	PVC
25	70	100	240	PVC

Specifications

Technical specification		PVC	SI	NEO	PU
Material	Coating	PVC	Silicone	Polychloroprene	Polyurethane
	Cloth	Polyester	Fiberglass	Fiberglass	Fiberglass
Coating		Both sides	Both sides	Both sides	Both sides
Weight		600 gr/m ²	520 gr/m ²	720 gr/m ²	460 gr/m ²
Color		Black	Grey	Black	Grey
Temperature range (continuous)		-20 to +70	-40 to +260	-20 to +100	-30 to +120
Resistance	Acids	Very good	Good	Good	Very good
	Oils	Good	Poor	Poor	Good
	Solvents		Good	Good	
	Greases	Good	Poor	Poor	Good
	Ozon	Very good	Very good		
	UV	Very good	Very good		
	Alogen	Very good	Poor		
Characteristics		Excellent mechanical resistance	Excellent high temperature resistance	Excellent high temperature resistance	Very good high temperature resistance
		Excellent tear and tensile strength	Very good low temperature resistance	Hardly flammable classified	
		All purpose	Very low smoke emission	Very good chemical resistance	
		Flame retardant	Very good chemical resistance		
		Excellent water resistance	Excellent ozone and weathering resistance		
Standards		UL classified NFPA 701	UL tested NFPA 701	UL classified NFPA 701	M0-400C/2h classified

All products meet the following requirements:

- unaffected by mildew.
- designed to meet NFPA 90A (Installation of air conditioning and ventilating systems).
- designed to meet NFPA 90B (Warm air heating and air conditioning systems).
- airtight and waterproof.
- meet American, British, French, German and other european standards.

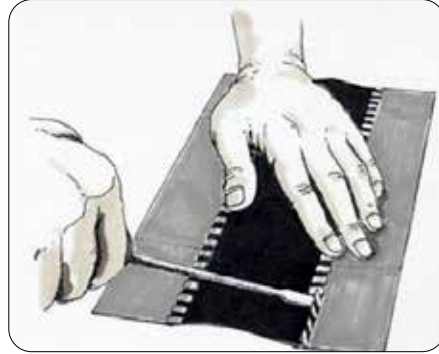
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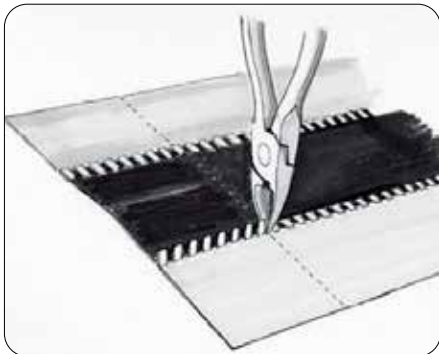
Recommended assembly method



At a notch, cut a length equivalent to the perimeter required plus an overlap of 100 mm.



Lift the seam outwards at right angle.



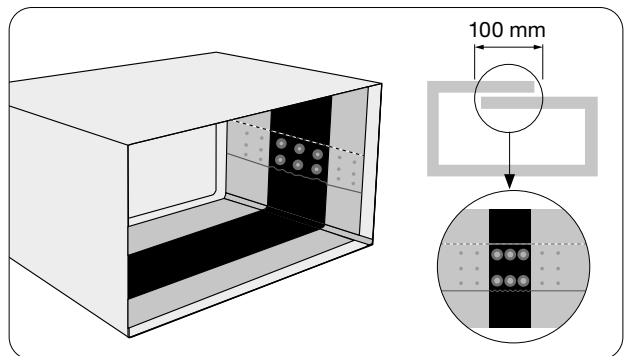
Make a cut at the edge of the seam section.



Bend down the seam while ensuring that the cloth remains fastened.



Coat the cloth with the appropriate adhesive, or pad. Join both sides and press together.



At last, fasten the FVA with spot welds, blind rivets and washers.

- 12 pcs of spot welds.
- 6 pcs of steel blind rivets min. 4,0x4,0 mm + 12 pcs of washers.



Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

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