Clevaflex Flexible Metal Duct

Clevaform S-Series
Low Pressure Flexible Duct

Type S – one ply of corrugated aluminum with interlocked seams, folded flat and knurled for air-tightness, strength and flexibility.

Type SFV – has a Type S core wrapped with fiberglass insulation and sleeved in a polyethylene vapor barrier.

Type SFA – has a Type S core wrapped with fiberglass insulation and sleeved in a fiberglass reinforced metalized polyester vapor barrier.

Velocity:
5000 FPM

Working Pressure:
10″ WC positive and negative

Clevaform SS-Series
Corrosive Resistant Flexible Duct

Type SS – one ply of corrugated stainless steel with interlocked seams, folded flat and knurled for air-tightness, strength and flexibility.

Type SSFV – has a Type SS core wrapped with fiberglass insulation and sleeved in a polyethylene vapor barrier.

Type SSFA – has a Type SS core wrapped with fiberglass insulation and sleeved in a fiberglass reinforced metalized polyester vapor barrier.

Velocity:
5000 FPM

Working Pressure:
15″ WC positive and negative

Clevaflex T12-Series
High Pressure Flexible Duct

Type 12 – two plys of aluminum permanently fused together and corrugated creating a continuous inner and outer surface that is air-tight, flexible and strong.

Type 12FV – has a Type 12 core wrapped with fiberglass insulation and sleeved in a polyethylene vapor barrier.

Type 12FA – has a Type 12 core wrapped with fiberglass insulation and sleeved in a fiberglass reinforced metalized polyester vapor barrier.

Velocity:
5000 FPM

Working Pressure:
20″ WC positive and negative

Clevaform DB-Series
Acoustical Duct

DB Core – one ply of perforated and corrugated aluminum with interlocked seams, folded flat and knurled for flexibility and strength.

Type DB – perforated aluminum core wrapped with fiberglass insulation and sleeved in a polyethylene vapor barrier.

Type DBA – perforated aluminum core wrapped with fiberglass insulation and sleeved in a fiberglass reinforced metalized polyester vapor barrier.

Velocity:
3000 FPM

Working Pressure:
2″ WC positive and negative

Clevaflex HVA
High Velocity Attenuator

The Clevaflex HVA core is constructed from one ply of perforated and corrugated aluminum with interlocked seams, folded flat and knurled for flexibility and strength.

The core is then completely wrapped with a blanket of fiberglass insulation.

The exterior sleeve is constructed with 2-plys of aluminum permanently fused together and corrugated creating a continuous inner and outer surface that is air-tight, flexible and strong. Inlet and outlet collars are then attached to the ends.

Velocity:
3000 FPM

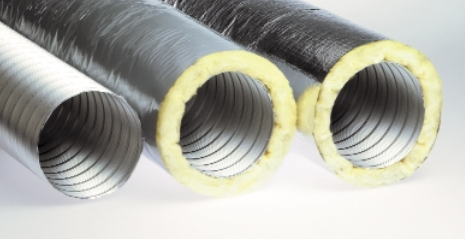
Working Pressure:
20″ WC positive and negative

Quadroflex – Quadrofix
Flexible Duct Systems

Quadroflex – is a corrugated, single ply, multi-sided, flat duct with interlocked seams, folded flat and knurled for air-tightness, strength and flexibility. It is primarily used in HVAC applications.

Quadrofix – is a smooth walled, single ply, multi-sided, flat duct with interlocked seams, folded flat and knurled for air-tightness, strength and flexibility. It is primarily used in ventilation applications where minimal pressure-loss is required. The seam technique makes the duct strong and easy to handle with a weight reduction of up to 50% in comparison to a standard rigid duct.

Clevaflex



Flexible Metal Duct

How to select, handle and install.

Selection:

Clevaflex metal duct is available in a variety of forms compatible with the requirements of all duct systems—heating, ventilation, air conditioning, fume control and dust removal. The range of duct materials available includes: aluminum and stainless steel in both insulated and non-insulated types. Acoustical duct and High Velocity Attenuators are also available. Nominal diameters range from 3″ through 18″. Duct lengths are 10′ standard. Attenuators are 5′ standard.

Clevaflex is designed to bend around obstructions and correct unavoidable misalignments between ductwork and equipment. It takes a semi-permanent set when hand-formed into a bend, yet it can easily be reshaped should a layout change be required.

The type of duct selected naturally depends on the job requirements. For example, Clevaflex T12-Series is a 2-ply aluminum duct that ensures air-tightness under high working pressures and provides a high degree of flexibility. It is generally used in commercial HVAC systems.

All Clevaflex duct provides a constant cross-section throughout a bend. This allows 90° bends with pressure losses comparable to die formed elbows.

Handling:

The only tool necessary for the preparation of Clevaflex metal duct is an ordinary long-bladed knife. After determining the desired length, you just cut the duct with a slicing motion as you would a loaf of bread.

In shaping the duct it is important that you treat the product carefully and form it slowly into the shape you want. It should never be struck sharply. Never hold the duct edge while you're shaping it, since that may distort the roundness. If you require a bend at the end of a length of large diameter duct, the bend should be made a foot or so away from the end of the duct. Then trim off the excess.

Installation:

For low pressure connections – slip the duct partially over a metal collar, then insert sheet metal screws through the duct and collar. Seal the joint with a wrap of duct tape around the duct and collar.

For high pressure connections – there are three acceptable methods for installing flexible metal duct on high pressure connections: duct sealer, mastic, and heat shrink bands.

With the first method, spread duct sealer thoroughly over the inside surface of the duct and the outside surface of a metal collar. Then slide the duct over the collar. Use sheet metal screws, duct tape, or a clamp to hold the duct in place until the sealer dries.

For sealing systems using gauze and mastic, it is best to follow the sealing manufacturer's instructions. The same is true when using heat shrink bands.

Installing insulated flexible duct – peel back the vapor barrier sleeve and the fiberglass insulation and proceed with one of the connection instructions above. After the connection is made, the insulation and vapor barrier sleeve should be pulled back into place and taped to the collar.

Making splices – join two pieces of Clevaflex by using a standard sheet metal connector. Each piece of duct should be fitted against the bead of the connector. One of the connection procedures described above should then be followed depending on system pressure.

Clevaflex

REGISTERED QS-9000 AND ISO9002 COMPANY

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