FLEXIBLE DUCT CONNECTIONS FOR INDUSTRIAL SERVICE

Fabric expansion joints.

Custom non-metallic flue duct joints for thermal movement, vibration and plant operating conditions.

NON-METALLIC / FLUE DUCT / CUSTOM CONSTRUCTION



01

Allow duct movement

Flexible elements accommodate large axial and lateral movements in industrial ductwork.

02

Reduce vibration

Non-metallic joints help accommodate vibration and flutter while offering low spring rates.

03

Simplify replacement

Lightweight construction and field splicing options can simplify installation and replacement.

Built around gas chemistry and temperature.

Material options: EPDM, Viton®, silicone and PTFE composite constructions.
Design options: U-type, belted and other custom configurations.
Select fabric construction and insulation for the actual service conditions.

Start with your application. Request a quote from Vital Hose.

CONFIGURATIONS & DUCTWORK OPTIONS

Fit the joint to your ductwork.

Define movement, operating conditions and attachment details before selecting the design.

OPTION	CONFIGURATION / SELECTION
U-type	Custom flexible element in a U-type configuration.
Belted	Belt-style construction to suit the duct connection.
Custom dimensions	Length and face-to-face tailored to the installation.
Insulation & baffles	Insulation pillows and baffles selected for the service.
Frames & back-up bars	Attachment hardware matched to the duct and flexible element.

Confirm fabric construction, movement capacity and pressure / vacuum limits for each service.

Built for industrial ductwork.

Applications

Utilities, petrochemical, pulp and paper, cement, steel, timber products and HVAC.

Replacement planning

Provide existing dimensions, attachment details and operating conditions to define a replacement.

Field installation options

Field splicing or patching may be available for suitable constructions; confirm application procedures.



Catalog non-metallic duct joints

Request a tailored quote.

Send Vital Hose your duct drawing, replacement details or the following:

Gas / media · Temperature · Pressure / vacuum
Duct size · Face-to-face · Attachment details
Axial / lateral movement · Vibration
Baffles / insulation · Quantity · Required date

Temperature capability depends on the complete fabric and insulation design, not the material name alone. Confirm gas chemistry, pressure / vacuum, flow conditions and movement. Specify these products for the approved duct-service application and follow the manufacturer’s installation requirements.

Specifications and imagery: American Expansion Joints, a division of Precision Hose & Expansion Joints, Expansion Joints brochure, non-metallic flue duct section (PDF p. 2). Confirm final configuration when quoting.