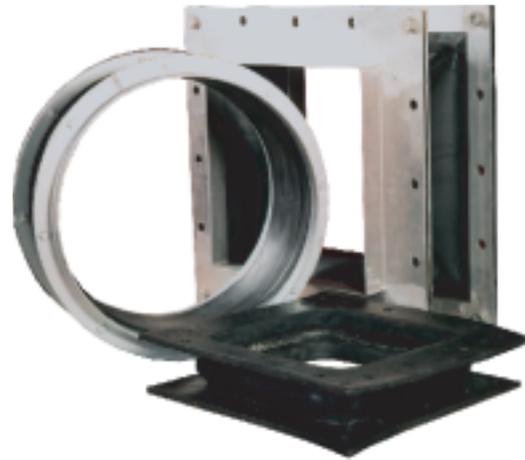
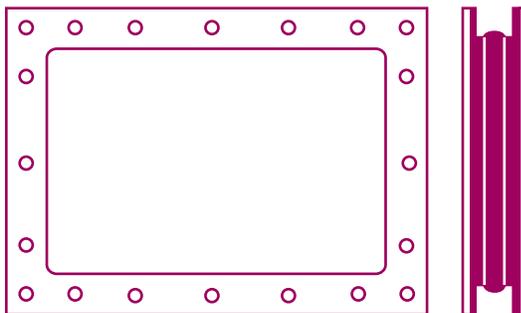


- Relative light weight
- Non-conductive
- Abrasion & corrosion resistant
- High fatigue resistance
- Wide material selection
- Movement achieved with relatively low force

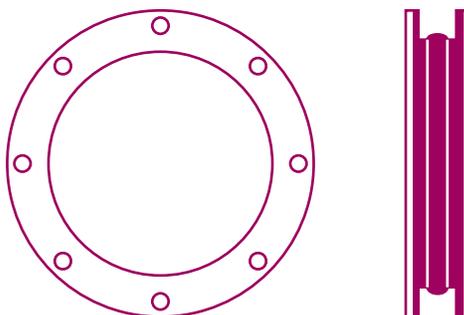
Flue duct connectors are designed to absorb thermal movements and vibrations in industrial duct work. They are designed to handle hot corrosive gases found in industrial ducting systems and eliminate vibration cause by equipment such as fans, scrubbers, and mechanical dust collectors.



Flue duct connectors can be constructed either flanged or belted in various sizes, shapes and configurations for easy installation in any type of duct. Insulation pillows can be included for certain high temperature applications. Baffles are required where the gas stream contains particulates which might abrade the inner surface of the joint. Square, rectangular or round shapes can be produced in any size.



DF-60 Rectangular Style



DF-60 Round Style

DF-60 EXPANSION JOINTS

Available in round or rectangular configurations, the DF-60 is designed for use in duct systems where pressure, abrasion and mechanical movement preclude the use of conventional ducting connectors. The external metal reinforcement and high strength synthetic reinforcing fabrics allow working pressures in excess of 25 PSIG. The wide arch design and rounded corners of the rectangular style allow for high movement capabilities while reducing fatigue due to flexing. Abrasion resistant rubbers allow the use of this expansion joint in applications such as discharge chutes, pneumatic conveyors and vibratory feeders. EVR DF-60 Expansion Joints are available in a wide range of elastomers and fabrics to suit most corrosive and temperature environments up to 400°F. To receive a design proposal, contact EVR to get a DF-60 Expansion Joint for your specific application requirements.

Integral Flange Design



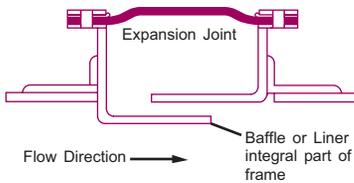
DF-01



DF-02



DF-03



Expansion Joint

Baffle or Liner as integral part of Joint frame

Belt Design



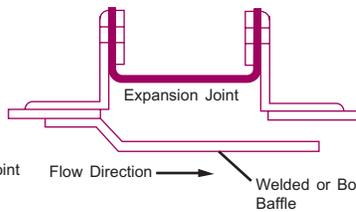
DB-04



DB-05



DB-06



Expansion Joint

Welded or Bolted Baffle

DF-01/DB-04 (Flat) Duct Connectors are designed for applications requiring standard movement, and maximum absorption of noise, amplitude, harmonic distortion and vibration.

DF-02/DB-05 (Radius) Duct Connectors offer superior axial and lateral movement capabilities without pre-compression or pre-extension as well as maximum vibration absorption.

DF-03/DB-06 (Arch) Duct Connectors are designed for high movement in short face-to-face applications. Primarily used in positive pressure systems having high axial compression and extension movements and provide excellent vibration and noise absorption.

Baffles or flow liners are used when the gas stream contains particulates which may abrade the inner surface of the duct connector. They can be constructed as one-piece or two-piece elements, depending on movement requirements and service conditions.

Material Selection Guide

Expansion Joint materials are chosen according to the mechanical, thermal and chemical environment of the joint. Reinforcing materials may include Nomex™, nylon fiberglass or polyester cloth, impregnated with one of the following, depending upon application:

Ethylene Propylene Rubber (EPDM)

Most effective for applications involving water, steam or diluted acids.

Viton™ (FKM)

Resists solvents, halogenated hydrocarbons, oxygen, weather, ozone, oils and chemicals.

Silicone

A high quality elastomer, recommended for all environments except those with sulphur gas (SO₂ or SO₃). Usable in -70 to 500°F applications.

Butyl (CIIR)

Good resistance to animal and vegetable fats, strong and oxidising chemicals, oils, heat and greases.

Neoprene (CR)

Generally resistant to oil and grease, moderate chemicals, fats, many hydrocarbons and ozone. Resistant to barnacle growth.

Teflon™ (AFMU)

TFE sheet or Teflon™ coated fiberglass used as a vapour barrier where condensation of corrosive gases may occur.

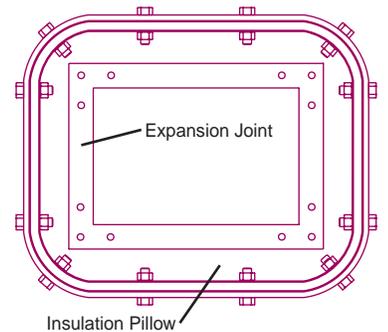
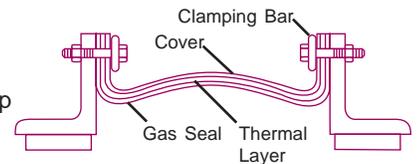
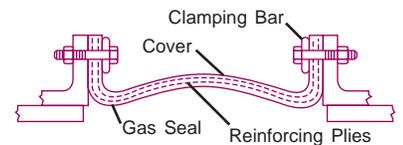
Mineral Fibre Insulation

Used as insulation pillow and composite layer for service conditions up to 2500°F.

Elastomeric Type - This type of expansion joint is constructed of elastomers and reinforced with high strength fabric. Choice of elastomer and fabric, depends on applications conditions. Maximum temperature for elastomeric expansion joints is 400° F.

Composite Type - Suitable for temperatures from 400°F to 2500°F, composite type expansion joints consist of various plies of materials laid one over the other and vulcanised, bonded, sewn or mechanically fastened together in the clamp area. This allows each layer of material to function independently of the others.

High Temperature and Buildup Solutions - Fly ash or other solid particulates can accumulate between the expansion joint and flow liner in such quantities that damage to the expansion joint may occur. A mesh or cloth seal between the liner and ducting can help prevent this problem. Another method of eliminating this buildup is the use of an insulation pillow to fill the cavity. Insulation pillows can also be used to increase the upper temperature limits of the expansion joint. Care must be taken when using an insulation pillow, so that corrosive chemicals do not condense in the cooler region adjacent to the expansion joint and duct work.



WARRANTY

All EVR products are guaranteed for one full year against defects resulting from faulty workmanship or materials. If any such product is found to be defective by reason of faulty workmanship or materials, upon written notice and return of the product, the defective product will be replaced by us free of charge, including the shipping charges for the replacement product. Claims for labour costs and other expenses required to replace such defective product, or to repair damage resulting from the use thereof will not be allowed by us. Our liability is limited to the price paid for the defective product. EVR Products shall not be bound by any warranty other than the above set forth unless such warranty shall be in writing. This literature is published in good faith and is believed to be reliable, however, EVR Products does not represent and/or warrant in any manner the above information and suggestions contained in this brochure. Data presented is the result of laboratory tests and field experience.

Distributed by:

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