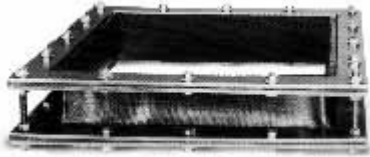




Duct Expansion Joints



**S-50-F Rectangular Duct
Expansion Joint**



S-50-F Corner Detail

Red Valve Duct Expansion Joints

- ▶ Maximum flexibility
- ▶ Eliminates gaskets
- ▶ Absorbs fan vibrations
- ▶ Abrasion resistant
- ▶ Made in U.S.A.
- ▶ Alleviate piping stress, noise and vibration
- ▶ Permit axial compression, elongation, lateral and angular movement
- ▶ Are non-corrosive and abrasion-resistant elastomers

Materials of Construction

Control Rods Retaining Rings

- ▶ Galvanized Steel and Stainless Steel

Elastomers

- ▶ **Class I - Up to 180° F**
Pure Gum Rubber, Neoprene, Hypalon, Viton®-lined
- ▶ **Class II - Up to 250° F**
Chlorobutyl, EPDM, Viton[→]-lined, Teflon[→]-lined
- ▶ **Class III - Up to 400° F**
Solid Viton[→]
- ▶ Elastomer Information

Redflex® Ducting Expansion Joints are designed for use on lightweight ductwork commonly found in odor control, air handling, and vapor/heat/dust recovery systems. The flexible rubber construction of the joints accommodates motion caused by axial, lateral, torsional, and angular movements concurrently. The rubber also helps to absorb the vibration of fans, reducing stress on the ductwork. The joints can be provided with a single arch for maximum expansion/contraction compensation, or with a smooth bore for reduced turbulence. The joints are manufactured with 3" high integral flanges that eliminate the need for gaskets by forming a tight seal against the mating pipe. Corners are fully molded with no splices for added strength. Flanged joints are provided with backing bars in carbon steel or stainless steel for an easy connection to mating flanges.

Redflex ® also offers a wide variety of round expansion joints designed for use on low pressure round ducting systems with a maximum pressure to 10 psi. Round Ducting

Joints are often utilized in lightweight air handling systems such as precipitators, scrubbers, fans and big hoses to absorb vibration, thermal movements and misalignments. This type of expansion joint is available in a variety of material configurations such as Neoprene, EPDM, Chlorobutyl, Hypalon ® or Viton ® flow elastomers with fiberglass, fiberglass/Kevlar ® , or polyester reinforcement. Flanged style of ducting expansion joints are drilled to ANSI 125/150#, but PS 15-69 and other drillings are available. Round Duct Expansion Joints can also be manufactured with a slip-on connection where no mating flange exists. The Joint is manufactured to the exact out-side diameter of the duct, and simply slipped onto the pipe. Stainless steel bands hold the joint securely in place.