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Metal



DESIGN

- Circular or Rectangular expansion joints
- Diameter ranging from 15 to 8 000 mm
- Floating flanges or Fully Integrated flanges
- Single or Multi ply
- Single or Multiple convolutions
- Special Designs

MATERIALS

- BELLOWS: Austenitic Steels such as AISI 321, 304, 316, 316L. 316Ti, 309, 253 Ma, 254 SMO. Nickel Alloys such as Monel 400, Inconel 600, 625, Incoloy 800 H, Hastelloy, etc.
- FLANGES: Carbon Steel or Stainless Steel
- CONTROL RODS & FASTENERS: A193Gr B7 and A194Cl.2H, Stainless steel.

STANDARDS

- Metal Expansion Joints are designed, manufactured and tested according to Internationally Recognized Codes and Standards:
- E.J.M.A. (Expansion Joints Manufacturers Association, Inc.)
- EN14917
- ASME
- AD Merkblatter...

MAIN ADVANTAGES

- High pressure resistant
- Corrosion resistance
- Short build length
- Large movement capacity
- Flexibility
- Low spring rates
- Low maintenance

Rubber



DESIGN

• Circular or Rectangular expansion joints Diameter ranging from 25 to 4 000 mm Floating flanges and fully Integrated flanges Single or Multi ply (fabric or steel reinforcements) Single or Multiple convolutions Special Designs

MATERIALS

- RUBBER BELLOW: Natural rubber (IR), Neoprene (CR), EPDM (EP), Silicone (SI), Butyl (IIR), Chlorobutyl (CIIR), Nitrile (NBR), Styrene Butadiene (SBR), Hypalon (CSM) and Viton (FKM).
- FLANGES: S275JR, S355J2G3, AISI 304, AISI 316, AISI 316L, AISI904, Aluminium...
- CONTROL RODS & FASTENERS: A193Gr B7 and A194Cl.2H, Stainless steel.

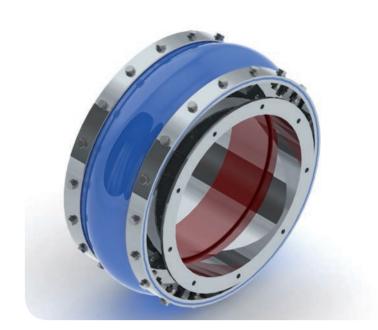
STANDARDS

- Rubber expansion joints are designed, manufactured and tested according to internationally recognized codes and standards:
- F.S.A (Fluid Sealing Association)
- ASTM

MAIN ADVANTAGES

- Medium to High pressure resistance
- Vibrations resistance
- Stress resistance
- Noise absorption
- Flexibility
- Low spring rates
- Low maintenance
- Large life cycle

Fabric



DESIGN

- Circular, rectangular or any other shape
- Single or Multi-Layer
- Limitless Dimensions
- Temperature up to 1 200°C
- Belt Type or Flanged Type
- With or without steel frame

MATERIALS

- SUPPORTING LAYER(S): Provides protection during handling and system operation + basis for arched or convoluted expansion joints where specific shapes are required (galvanized steel, stainless steel, inconel Wire Mesh)
- INSULATING LAYER(S) : Provides a thermal barrier + reduce condensate problems (Different types of Fiberglass and Silica cloth and blankets)
- GAS SEAL LAYER(S): Provides a chemical barrier (PTFE, Viton®, EPDM, Silicone, Hypalon and Metal foils...)
- COVER LAYER: Provides protection from the external environment, acts also as a complementary gas seal layer. (Fiberglass cloth coated with PTFE, Viton®, EPDM, Silicone, Hypalon ...)
- FLANGE REINFORCEMENT : Provides thermal and mechanical protection. (Fiberglass cloth)

STANDARDS

- Fabric Expansion Joints are designed, manufactured and tested according to Internationally Recognized Codes and Standards:
- E.S.A (European Sealing Assosciation),
- F.S.A (Fluid Sealing Association)
- RAL...

MAIN ADVANTAGES

- Compensate large movements simultaneously (Axial, Lateral, Angular, Torsion)
- Compensate pipe or duct misalignments
- No limits in dimensions
- Low cost of raw materials
- Low cost of Installation and Maintenance
- Light and Handy (reduced load for the ducts and safe for the staff)
- Corrosion resistance

Other products and accessories

- FLEXIBLE METAL HOSES (WITH OR WITHOUT BRAIDING
- GASKETS & JOINTINGS
- HIGH TEMPERATURE RESISTANT INDUSTRIAL TEXTILES, INSULATION AND SEALING MATERIALS (twisted ropes, fibre ropes, braided and knitted packings and sleevings, woven and knitted tapes)



Quality control

ALWAYS CARRIED OUT ACCORDING TO OUR **CLIENTS PARTICULAR REQUESTS**

- Identification and Control of Materials Drawings and Documents control
- Manufacturing Process control
- Testing, Inspection and Documentation
- Final Inspection and preparation for Delivery

Applications

Ventilator construction -Vibration technology

Aeration and venting systems - Air conditioning systems - Air filter

construction - Air heaters- Air pre-heaters -All metallurgical engineering

- Blast heating systems - Blowers - Cement factories - Chemical industry -Crushing plants - Diesel power plants - Drying systems - Dust exhaust Electrical conductivity - Exhaust lines - Exhaust systems of all types -- Flue gas cleaning systems - Food processing industry (FDA) - Furnace construction - Gas generating, cooling, cleaning splitting, and drying systems - General apparatus construction for chemical systems - Heat exchanger - Heat technology - Heaters: gas and air heaters - Industrial furnaces - Lacquering systems - Large motor construction - Metallurgical systems - Paint mist suction systems - Paper machinery manufacturer -Pharmaceutical industry - Pipeline construction (especially construction of large pipes)Power plants - Preparing, cleaning and drying systems for natural gas - Reactor construction - Refinery gas - Refuse incineration - Sheet-metal containers and sheet-metal pipes for gas lines - Shipbuilding - Sintering and pelletising systems - Sludge combustion system - Steam generating systems - Steel construction for engineering work, for protection against heat and corrosion - Suction systems - Systems for natural gas, coal, coke, and ores -

SOME OF OUR CLIENTS













gasNatural







