



EASYFLEX

KANWAL INDUSTRIAL CORPORATION



A Family owned Business started in the year 1973 by our founder Mr. Kanwal Jeet Singh.

Today, Easyflex is India's leading manufacturer of Expansion Joints, Vibration & Seismic Isolators and Restraints, Modular Pipe Support Systems and Design Engineering for Shock Isolation, Piping technology and Seismic applications.

Our vision is to serve major clients across the globe with a focus on mission critical applications by extending our knowledge and expertise in the field of made to build Design Engineering.



Easyflex



FLEXIBLE CONNECTIONS

VIBRATION, SEISMIC & ACOUSTIC ISOLATION

MODULAR PIPING SUPPORT SYSTEMS

DESIGN ENGINEERING



We are committed to business process improvements in the engineering sector with a focus on automating Selection and Design technology.

Our global strategic partnerships, enable us to create and deliver world class products for our customers.

PUMPS

CHILLERS

ELECTRICAL APPLICATIONS

DRAINAGE APPLICATIONS

BLOWERS

RUBBER EXPANSION JOINTS & BELLOWS

- Spool Type
- Sphere Type
- Bus Duct Bellow
- Rubber Sleeve Joints
- Rubber Bellows for Drain systems

DUTY CONDITIONS

- Temperature : 20°C 100°C
- Pressure : PN 10 | PN 16 | PN 20
- Sizes : 25mm to 2000mm ID



FLUIDSEALING
ASSOCIATION™

FLEXIBLE CONNECTIONS

SPOOL TYPE

RUBBER



DESIGNED TO SINGLE / DOUBLE / MULTIPLE ARCHES

PNEUMATIC TESTING

FLEXIBLE CONNECTIONS

SINGLE SPHERE

RUBBER



COMPOUND TESTING

HYDRO TESTING

SHORE HARDNESS TESTING



RECTANGULAR BELLOWS



Easyflex Single Sphere REJ installed with Oxidation Air Blower at FGD Plant



Size : 900 NB X 300mm OAL

CUSTOM DESIGN EXPANSION JOINTS



Expansion Joints used in Electrical Bus Duct systems prevent transmission of vibration to Electrical components.

Since pressure requirements in ducts are very low compared to piping systems, they are manufactured in lighter construction to be more responsive to the reduced stiffness of sheet metal ducting.

Aluminium / Copper can also be the material of construction for these applications.

**Easyflex is OEM Supplier to
NTPC & BHEL**



They can be round, square, rectangular, even "T" or "L" shaped. These can also be constructed with Multiple Arches.

EXPANSION JOINTS FOR DUCTING

RUBBER



Easyflex Wide Arch rubber expansion joints represent our most cost-effective full pressure single wide arch design.

Additionally, they are designed to absorb large all-directional movements, reduce noise and vibration, have a cycle life in the tens of millions, compensate for misalignments, provide access to piping and equipment and relieve pipe and anchor stresses.



EXPANSION JOINTS FOR DUCTING

RUBBER



EXPANSION JOINTS FOR DUCTING

SLEEVES / BELLOWS FOR LOW PRESSURE APPLICATIONS

RUBBER



FLEXIBLE CONNECTIONS

INDUSTRIAL APPLICATIONS

RUBBER



FLEXIBLE CONNECTIONS

DRAINAGE & PLUMBING APPLICATIONS

RUBBER



PUMPS

CHILLERS

GENSETS

FIRE PIPING

BOILERS & TURBINES

METALLIC EXPANSION JOINTS & BELLOWS

- Single Axial Joints
- Exhaust Gas Bellows
- Gimbal Expansion Joints
- Universal Expansion Joints
- Pressure Balanced Expansion Joints
- Stainless Steel Braided Hose Connectors
- Flexible Fire Sprinkler Hoses

DUTY CONDITIONS

- Temperature : -70°C - 1500°C
- Pressure : PN 2 | PN 10 | PN 16 | PN 20 | PN25 | PN40
- Sizes : 25mm to 4000mm ID



FLEXIBLE CONNECTIONS

METALLIC



Thermal Expansion in Piping & Ducting systems connected to **Mechanical Equipments** cause **Stress and Vibration** in the associated pipe work.

Expansion Joints are designed to withstand **Pressure of the System** with enough **Flexibility to compensate for movements** required by the piping.

Types of Movements

- Axial Elongation
- Axial Compression
- Lateral
- Angular
- Universal

A Metallic Expansion Joint is composed of a **Flexible Bellow Element** made up of a series of **Convolutions** with suitable end fittings.



Exhaust Expansion Joint



HALOGEN LEAK TESTING



Easyflex™

LIQUID & FLUORESCENT PENETRANT EXAMINATION



Easyflex Universal Expansion Joint with Grooved Pipe Ends installed at Fire piping for a Tunnel Project.

In-house Movement Testing Apparatus



Easyflex Single Axial Expansion Joints installed at Fire piping for a Tunnel Project.

SS316Ti Expansion Joint

SS316Ti Inner Liner

SS316Ti Flange Ends

SS316Ti Control Units

500+ Units manufactured



FLEXIBLE CONNECTIONS

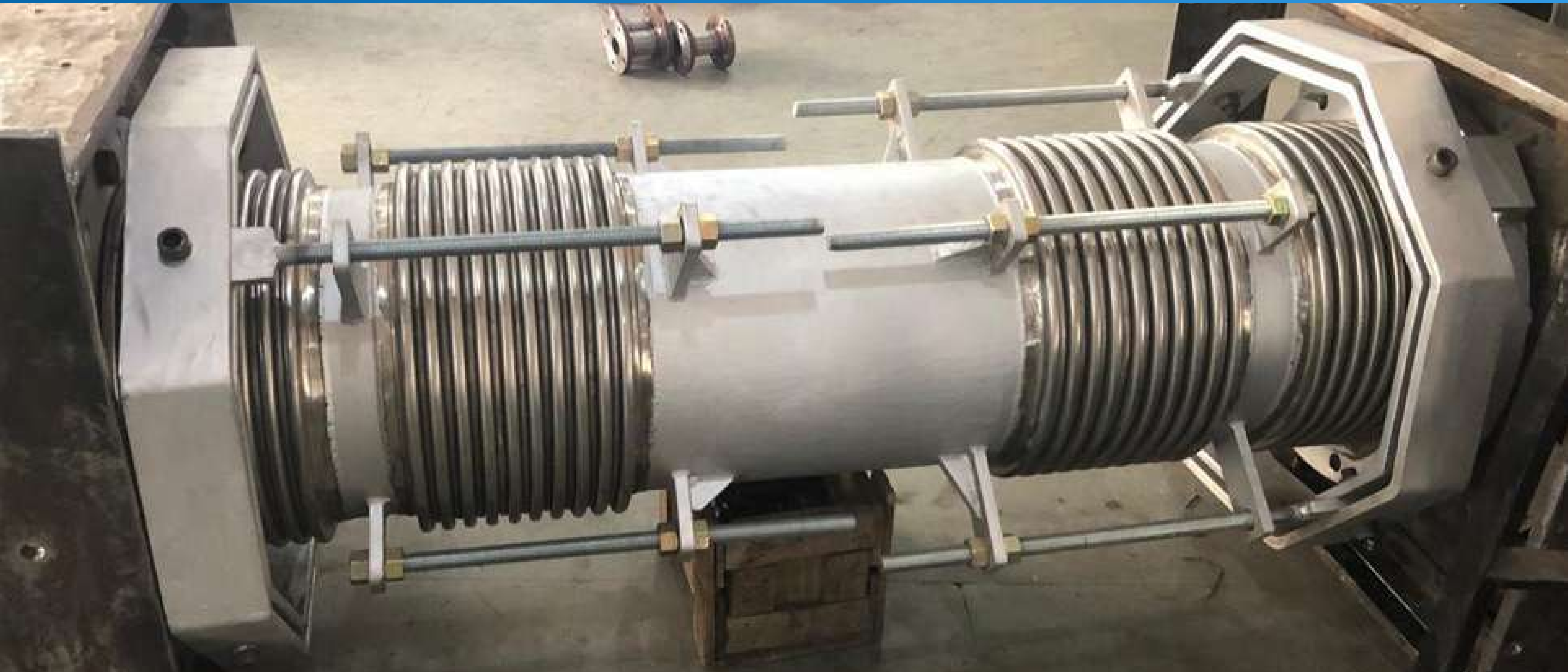
FOR HIGH RISE BUILDINGS

UNIVERSAL TIED BELLOW FOR PIPE RISERS



FLEXIBLE CONNECTIONS

GIMBAL BELLOW FOR 300MM MOVEMENT



PRESSURE TESTING

PNEUMATIC TESTING

SPRING RATE TEST

Easyflex Universal Expansion Joints for piping installed with Gas Turbine at a Captive Power Plant of a Sugar Mill.

SS304 Expansion Joint

SS304 Inner Liner

1200NB X 1200mm OAL

CS Flange Ends



FLEXIBLE CONNECTIONS

SS BRAIDED CONNECTORS

Metallic Hose Assemblies for

- **Air Handling Units**
- **Fan coil units**
- **Steam generation**
- **Oil & Gas application**



MAJOR SUPPLY TO DATA CENTERS

FLEXIBLE CONNECTIONS

PUMP CONNECTORS

SS BRAIDED HOSE ASSEMBLIES



FLEXIBLE CONNECTIONS

CUSTOM END FITTINGS

SS BRAIDED HOSE ASSEMBLIES



FLEXIBLE CONNECTIONS

FOR OIL & GAS APPLICATIONS

SS BRAIDED CONNECTORS



Easyflex SS 304 Braided Connectors with ANSI B 16.5 #300 SS304 Flange Ends for Blowback Piping



In-house Hydro testing

FLEXIBLE CONNECTIONS

FOR OIL & GAS APPLICATIONS

SS BRAIDED CONNECTORS

Easyflex SS316L Braided Hose Connectors with ANSI B 16.5 #300 SS316L Lap Joint Flange and Weld neck Flange with SS316 Elbow



In-house Hydro testing

FLEXIBLE CONNECTIONS

SS BRAIDED CONNECTORS



SEISMIC "U" & "V" CONNECTORS

SS 304 / 321 / 316 / INCONEL 625 HOSE

AHU / FCU FLEXIBLE CONNECTIONS

EPDM HOSE WITH SS BRAIDING

With EPDM Lining and Brass End Fittings, these flexible connectors are the perfect cost-effective solution.



Also available in Corrugated Type Hose without Braiding

FIRE SPRINKLER HOSE PIPES

Braided
Unbraided

Including all Accessories and End fittings.



AIR HANDLING UNITS

AXIAL FANS

BLOWERS

AIR POLLUTION SYSTEMS

INDUSTRIAL DUCTING

FLEXIBLE DUCT CONNECTORS

- Fabric Rolls
- Fire Rated Fabric
- Fabrics with GI Strip
- Fibreglass Insulated Fabric
- 2 Ply Fabrics | Double Canvas
- Factory Fabricated Flanged Connectors

DUTY CONDITIONS

- Materials : **PVC | NEOPRENE | SILICONE**
- **Fabric only | GI Strip Connector | Flanged Connector**
- Sizes : **150.200.300.350.1000.1500mm width**
- **45x60|100|150 . 70x100|150**



FLEXIBLE CONNECTIONS

FABRIC



FLEXIBLE CONNECTIONS

FLANGED FABRIC DUCT CONNECTOR



FLEXIBLE DUCT CONNECTORS

Air Duct installation connected with **Fans, Blowers** and **Air Handling Units** transmit noise and vibration throughout the entire ducting

Flexible Connections in the form of **Fabric Rolls** or **Flanged Connectors** help isolate noise and vibrations from Air Handling Units



- **UL Listed Fabrics**
- **NFPA Approved**
- **Fire Rated & Retardant**
- **Available in Rox, Neoprene, Silicone and Insulated Fibre glass**
- **For temperature ranges upto 260°C**
- **Customised to Round, Rectangular and Square connectors**
- **Also available for Double Duct applications**



Round to Rectangular

FABRIC



FLEXIBLE CONNECTIONS

ROUND TO RECTANGULAR DUCT CONNECTORS | SIZE 1400 to 1350 DIA X 300mm OAL

EJMA DESIGN REPORTS

VERTICAL RISER PIPE ANALYSIS

THERMAL STRESS ANALYSIS

CUSTOMISED SPRING DESIGN

SHOCK ISOLATION DESIGN

SEISMIC DESIGNING

VIBRATION TROUBLESHOOTING
& RETROFITTING

VIBRATION ISOLATION
EFFICIENCY REPORTS

We have a long history of solving a broad range of vibration problems involving structures, components, mechanical machinery, and process equipment.

Our unique experience includes applications in offshore energy, refining, specialty chemical processing, high speed manufacturing equipment, consumer devices and HVAC products and more.

PARTIAL CLIENT LIST

ENGINEERING YOUR VISION WITH OUR EXPERTISE

Easyflex



Easyflex provides technical assistance in the **Selection and Specification of Isolation systems and Vibration Isolation products**

Our vision is to serve major clients across the globe with a focus on mission critical applications by extending our knowledge and expertise in the field of made to build **Design Engineering.**

BUILDING PROJECTS

PBCOM TOWER	PHILLIPINES
IHG HOTEL	MAURITIUS
LUSAIL PLAZA	QATAR
BANK OF MUSCAT - HQ	OMAN
NECCO	UNITED STATES OF AMERICA
CARRIG	UNITED STATES OF AMERICA
IDB BOSTON	UNITED STATES OF AMERICA

AIRPORTS & METROS

RIYADH METRO	KINGDOM OF SAUDI ARABIA
MALE INTERNATIONAL AIRPORT	MALDIVES
KOLWEZI AIRPORT	REPUBLIC OF CONGO

INDUSTRIAL PROJECTS

AL DUR POWER PLANT	BAHRAIN
DANGOTE REFINERY	NIGERIA