



- SHOCK & VIBRATION MOUNTINGS
- EXPANSION JOINTS
- BASE ISOLATION SYSTEMS
- AIR SPRINGS & SUSPENSION SYSTEMS
- SEISMIC BASE ISOLATION SYSTEMS

for

HVAC INDUSTRY

COMPANY PROFILE

RESISTOFLEX was founded in 1947 by Late Mr. R.K. Jain after graduating in Electrical & Mechanical Engineering from BHU, India. He was joined by Mr. Ratish Jain, B.Tech & Silver medallist from IIT Delhi. He forged several alliances with globally acclaimed companies in related fields. Further RESISTOFLEX was co-opted to the Mechanical Vibration and Shock Sectional Committee of Bureau of Indian Standards.

RESISTOFLEX offers a most comprehensive range of products comprising of:

- Application Engineering
- Shock, Vibration & Seismic Engineering
- Flexible Piping Systems

for

Industrial Equipments
Machine Tools & Forging Hammers
Heavy Machines
Army Vehicles, Tanks, Shelters
Naval Ships & Submarines
Aerospace

- Air Spring Systems
- Automatic Door Systems

for

Railways

Base Isolation Systems

for

Building & Bridges

RESISTOFLEX offers complete engineering services which includes: Diagnostic Investigation, Technical Analysis, System Design, Supervision of Installation, Performance Evaluation & Post Monitoring.

RESISTOFLEX has advanced computer programs and decades of experience to design and recommend the most efficient and economical isolation system for applications as diversified as passive insulation of Delicate Instruments and active isolation of massive Forging Hammers.

Nearly one million products are made on floor area of over 150000 sq. ft. in 4 modern plants equipped with latest manufacturing and dynamic test facilities.

Many products are regularly exported to U.S.A., U.K., France, Germany, Middle East, Taiwan, Korea, etc.

CORPORATE OFFICE AND PLANTS

CORPORATE HEADQUARTERS
AT NOIDA

NOIDA OFFICE AND PLANT

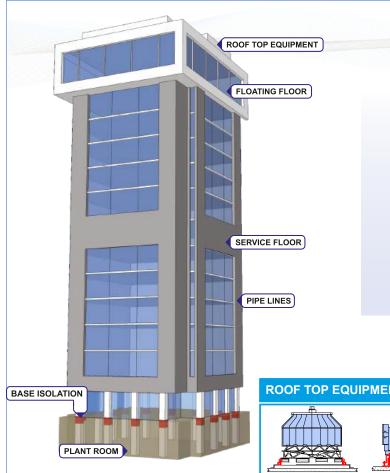


PRODUCT

VIBRATION - SHOCK - SEISMIC ISOLATION AIR SPRINGS & SUSPENSION SYSTEMS

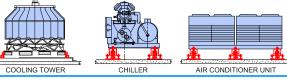


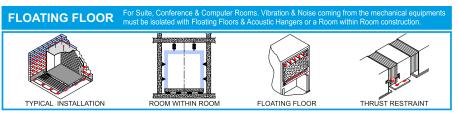
APPLICATION

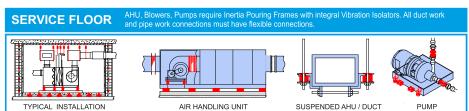


VIBRATION &
SEISMIC
ISOLATION OF
BUILDING &
EQUIPMENTS

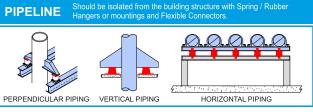


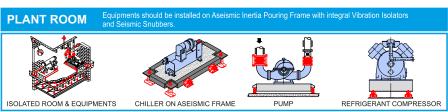






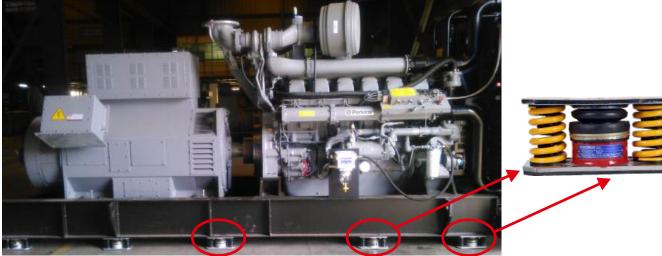






INSTALLATIONS

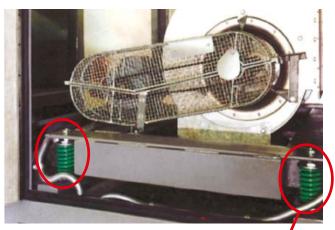




Spring Viscous Damper Systems isolate 1MW DG Set



Rubber Expansion Joints at Metro Stations



Open Spring Mounts isolate vibration in Fans



ITEMS FOR METRO RAIL







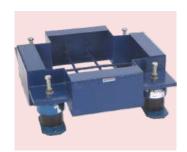


SH CFX STB 84 FM 500S









SRSA RMEJ IPF

EXPANSION JOINTS

Flexible Pipe Connectors

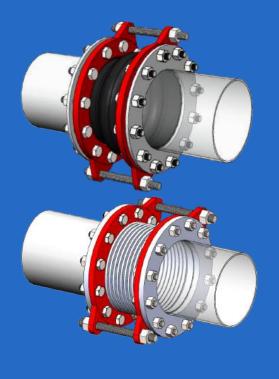






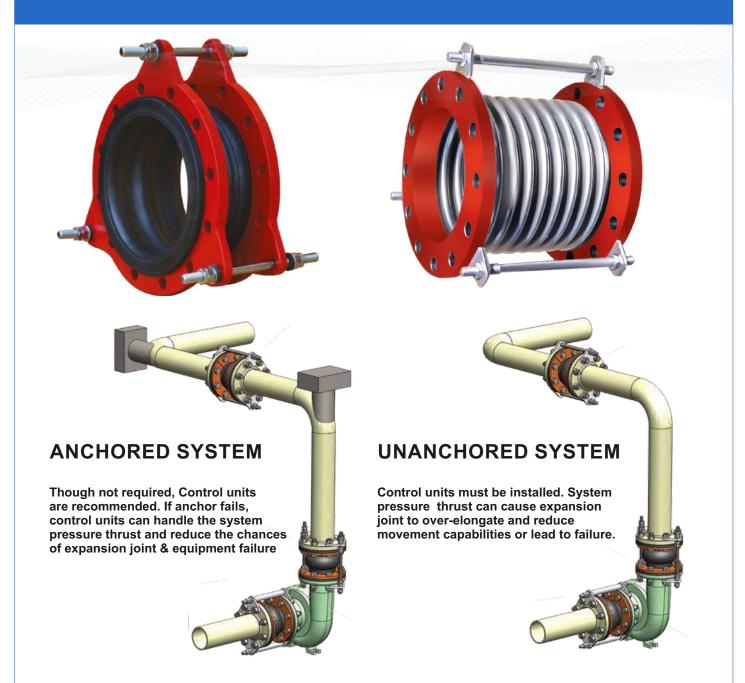


for BIG RELIEF from STRESSES



- * HVAC
- * WATER & SEWERAGE
- * POWER GENERATION
- * EXHAUST
- * OIL & PETROLEUM
- * CHEMICAL
- * PAPER & PULP
- * STEEL
- * DEFENCE & SPACE
- * URBAN DEVELOPMENT

EXPANSION JOINTS WITH CONTROL UNITS



CONTROL UNITS are the additional safety factor preventing damage to expansion joint and associated equipment. They absorb reaction force (thrust) developed by system pressure during test or normal operation (Warning: They are not a replacement for proper system anchors, guides and supports)

MUST BE USED FOR:

- 1. ANCHORED SYSTEMS if maximum pressure, temperature and piping movement can exceed rated limits or as safety against anchor / guide support / equipment failure
- 2. All UN-ANCHORED SYSTEMS
- 3. SPRING-MOUNTED EQUIPMENTS
- 4. LATERAL MOVEMENT higher than rated limits
- 5. VACUUM LINES

METAL EXPANSION JOINT



Bellows Forming Technique

Resistoflex
Hydro Forming
Lower Stresses
Lower Thinning

LONGER LIFE Conventional

Roller Forming
Higher Stresses
Higher Thinning

SHORTER LIFE



- Fixed & Floating Flanges
- Compensates for length variations and lateral shifts in pipe systems
- Corrosion Resistant
 Outstanding hot/cold water, steam, petrol, fuel, hot gases, chemical, Weathering & Heat resistance
- Cover Wide Temperature Ranges





ANGULAR



LATERAL



• SS 304 / 316 / 321 Bellows to PN 10 / 16 / 25 • Carbon / Stainless Steel Flanges drilled to BS / ANSI / ASME / ISO / IS Standards

Designed to EJMA standards

FABRIC



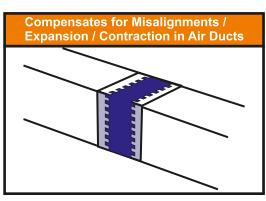
FLAME RESISTANT (S) FLEXIBLE DUCT CONNECTORS











Advantages:

- Quick and Economical
- Mechanically Resistant
- Mildew Resistant Water Proof
- Good for Moisture Laden Air
- Unmatched Durability and Strength
- Width 100 to 1500 mm & Length upto 50 M

COATED Canvas - 30°C~80°C VINYL
Polyester Fabric
- 30°C~120°C

POLYURETHANE Glass Fabric - 30°C~150°C

- 30°C~160°C

NEOPRENE

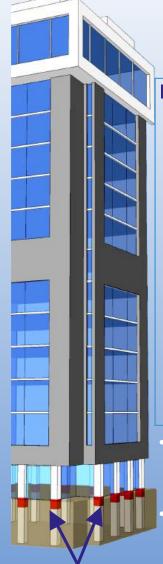
Glass Fabric

SILICONE Glass Fabric - 30°C~250°C

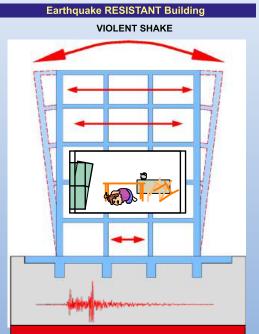


SOUND Insulated - 30°C~120°C

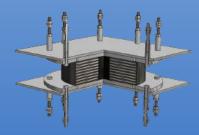
SEISMIC BASE ISOLATION BUILDINGS



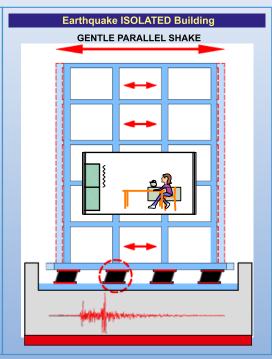
SEISMIC BEARING
Decouples the buildings
rom the ground and absorbs
the earthquake energy



- Building is jolted. The violent shaking of floors increases in the ascending floors.
- Earthquake energy is absorbed by damage of columns or beams.
 - Violent shakes felt inside the building result in *injury* to PEOPLE and *damage* to PROPERTY......



Lead Rubber Bearing



- Building superstructure decoupled from the foundation.
- Earthquake energy is absorbed by **BEARINGS**.
- Building shakes gently and slowly *protecting* occupants & property.



Sliding Pendulum Bearing

BASE ISOLATED SHOWCASE BUILDING





Staircase Isolation for uninterrupted staircase usage during and after an earthquake



Special Pendulum Isolators with Fuse for over travel protection

Fig: Fully Functional



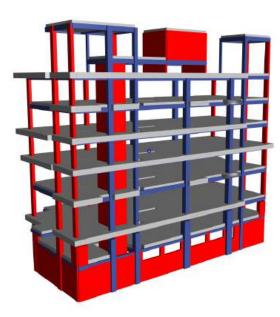
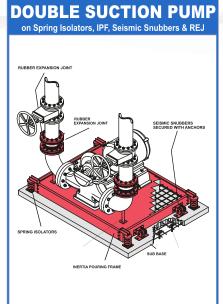
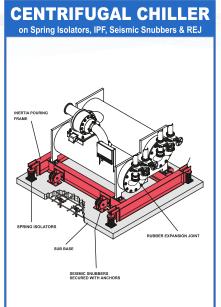


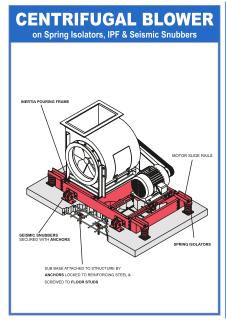
Fig: ETABS model of the structure

SEISMIC RESTRAINTS FOR EQUIPMENTS

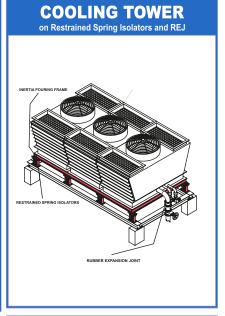
END SUCTION PUMP on Spring Isolators, IPF, Seismic Snubbers & REJ NERTIA FOURNO FRAME RUBBER REZANSION JONT SUB BASE SPRING ISOLATORS

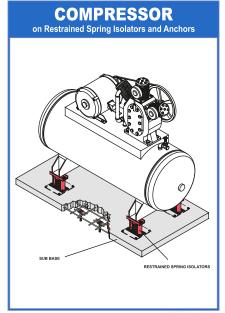


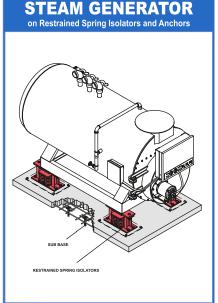


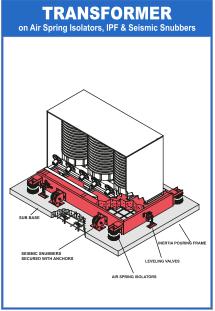












MANUFACTURING - TESTING - RESEARCH

MANUFACTURING



DEEP DRAW PRESSES



MIXING



CNC PLASMA CUTTING INJECTION MOULDING





WELD AIR TIGHT TEST



LEVELLER



VERTICAL MACHINING CENTER



VERTICAL TURRET LATHE

TESTING



LEAKAGE TESTING



TENSILE TESTING



MULTI AXIS TESTING



DYNAMIC TESTING



ANTI-CORROSION TESTING



UNIVERSAL TESTING MACHINE

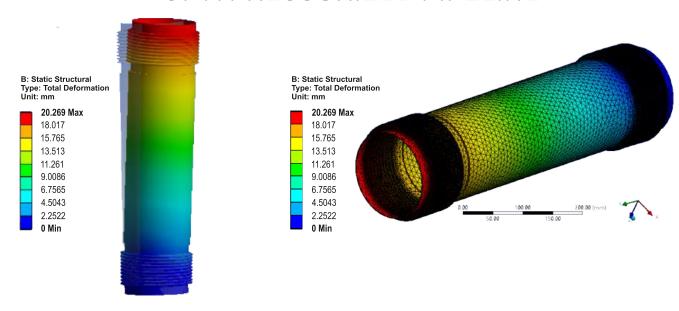


VIBRATION OR FREQUENCY TESTING

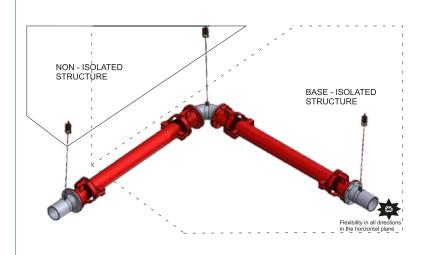


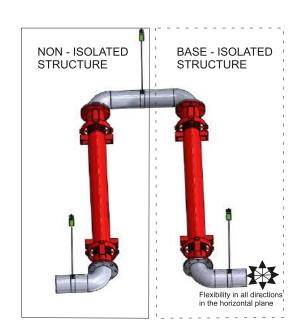
IN-HOUSE DESIGN CAPABILITY

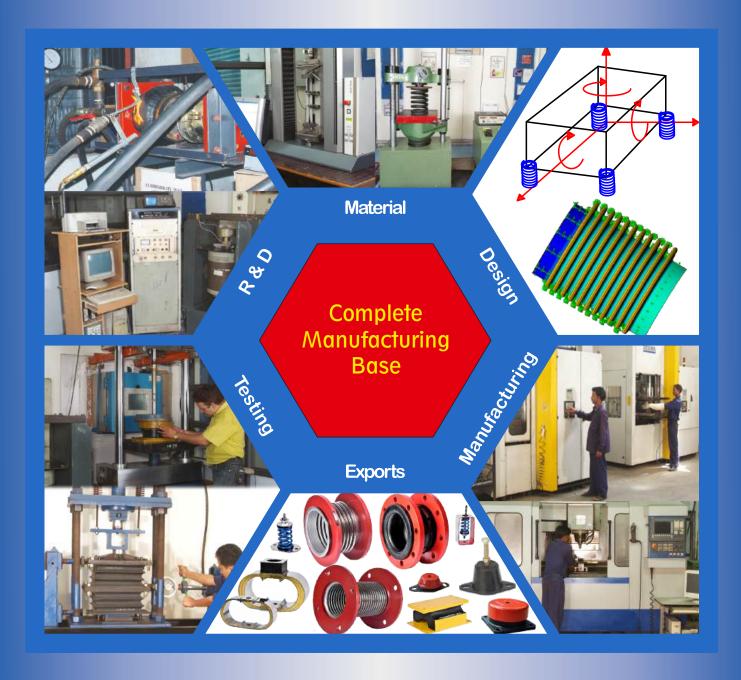
STRESS & DEFORMATION ANALYSIS OF A PRESSURIZED PIPELINE



L-TYPE AND LOOP FLEXIBLE PIPE JOINT DESIGNED FOR HIGH LATERAL MOVEMENTS IN BASE ISOLATED BUILDING







RESISTOFLEX GROUP

Corporate House

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: Bright Hardware Mart (98310327848, 9831132256) DELHI (NCR) MUMBAI **MUMBAI** Kolkata **Ahmedabad** : Nico Industrial Solutions (8460004211, 9227419844) : Sai Krishna Consultants & Engg. (9841295276) : Anji Engineering Solutions Pvt. Ltd (7010221963) Chennai Chennai

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