



flexible hoses and expansion joints.



excellence in flexible hose and expansion joints since 1989.

quality and certifications.

At Ocelflex Industries, quality is not just a requirement - it is a fundamental principle that defines our manufacturing process. Our state-of-the-art production facility integrates advanced engineering, precision inspection systems, and in-house quality verification to ensure every component meets stringent industry specifications.

We are proud to be an ISO 9001:2015 certified company, accredited by TÜV Nord DAKkS, which reinforces our commitment to delivering internationally benchmarked products. Additionally, as an ISO 14001 certified organization, we integrate sustainable manufacturing practices, minimizing environmental impact while ensuring operational excellence.

advanced manufacturing and testing capabilities.

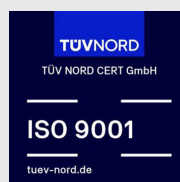
With over three decades of engineering expertise, Ocelflex Industries continues to push the boundaries of manufacturing innovation.

Our facility is equipped with automated production systems, enhancing efficiency, repeatability, and precision in the fabrication of metal flexible hoses and expansion joints. These advanced systems optimize material flow, reduce variations, and increase throughput, ensuring consistency in both high-pressure and high-flexibility applications.

To validate structural endurance and application suitability, we employ a multi-stage testing framework, which includes:

- ✓ Hydrostatic & Pneumatic Pressure Testing
- ✓ Helium Leak & Vacuum Testing
- ✓ Fatigue & Cycle Life Testing
- ✓ Non-Destructive Examination (NDE)

By integrating cutting-edge technology and stringent validation protocols, we ensure that every Ocelflex product delivers unmatched performance, longevity, and dependability, making us the preferred choice for industries worldwide.



flexible solutions for piping systems

Ocelflex Industries is a reputed leading manufacturer of metal flexible hoses and expansion joints and bellows, serving industries worldwide with high-quality, precision-engineered solutions. Established in 1989, we have built a reputation for engineering excellence, reliability, and innovation in the field of flexible piping systems.

With over three decades of experience, Ocelflex Industries has emerged as a trusted name in the industry, supplying high-performance stainless steel flexible hoses and metal expansion joints to a wide range of sectors, including oil & gas, power plants, chemical processing, HVAC, marine, and automotive industries.

From raw material selection to final product dispatch, we implement rigorous quality control measures. Each finished product is meticulously inspected for specification integrity, dimensional accuracy, and pressure resilience, guaranteeing superior performance in critical applications.

flexible hoses and expansion joints.

why choose ocelflex industries.

experience.

Over 35 Years of Industry Expertise.

Proven experience in flexible piping solutions.

quality.

ISO-Certified Manufacturing Processes.

Quality assurance through stringent standards.

engineering.

State-of-the-Art Automated Machinery.

Higher production efficiency and precision.

solutions.

Custom-Built Solutions.

Tailor-made flexible hoses & expansion joints for specific applications.

consistency.

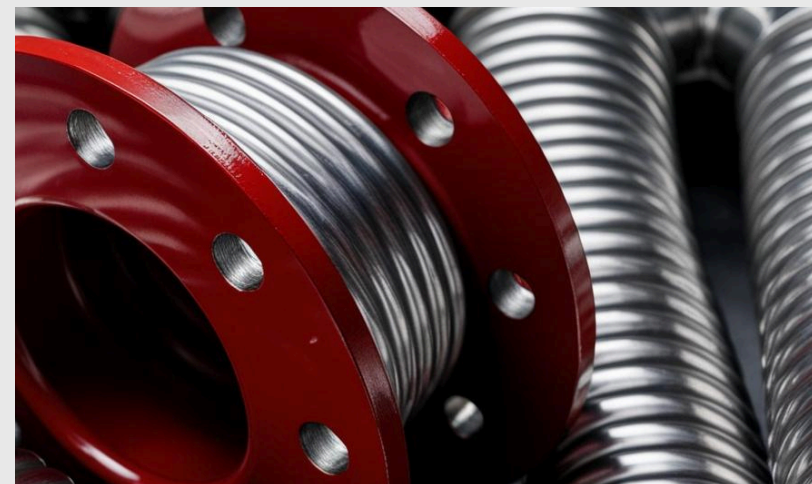
Comprehensive Testing and Inspection.

Ensuring reliability even in extreme conditions.

We continuously strive to deliver superior flexible hose and expansion joint solutions that meet the evolving demands of industries worldwide.

global exporter and trusted manufacturer.

Ocelflex Industries proudly serves reputed clients in India and exports to multiple countries worldwide. Our commitment to quality, timely delivery, and customer satisfaction has helped us establish long-term relationships with leading global industries.



Ocelflex Industries.

hoses.

metal hose.

- unbraided, single and multi braided
- hydro formed and mechanical formed

ptfe hose.

- smoothbore, convoluted bore.
- thicklined, vacuum, anti static, stainless steel corrugated lining.

composite hose.

- oil, chemical, chemical ptfe, aviation fuel, cryogenic.
- oil dock, chemical dock, chemical ptfe dock, high temperature.

hose assemblies.

- jacketed, loop design, high pressure, solar, pump connector.
- flanges, threaded, union, ferrule, coupling, pipe end fittings.

expansion joints and bellows.

metal expansion joint.

- axial expansion joint.
- universal expansion joint.
- hinged expansion joint.
- gimbal expansion joint.
- rectangular expansion joint.

rubber expansion joints

automotive exhaust expansion joint.



unbraided, single, double and multi wire braided stainless steel corrugated hose.

Among the various types available, stainless steel corrugated flexible hose stands out due to its superior strength, flexibility, and corrosion resistance. It is available with or without an external braid, depending on the application's pressure and mechanical requirements.

A stainless steel corrugated hose is manufactured using a seamless or longitudinally welded tube that is mechanically or hydroformed into a corrugated structure. These corrugations provide the hose with high flexibility while maintaining structural integrity under pressure. Our stainless steel corrugated hose is designed to accommodate axial, lateral and angular movements. Usually made of Stainless Steel 304, 316L or 321, ensuring corrosion and heat resistance. The flexible metal hoses are leak proof suitable for gas, steam and liquid transfer applications.

Ocelflex manufactures wide range of bare and braided hoses :

diameter.

1/4 inch NB to 18 inch NB

length.

Upto 100 mtrs for small diameter

manufacturing type.

hydro and mechanical formed

pressure and temperature.

Upto 200 bar, -270°C to 700°C

hose and braid material.

Stainless Steel 300 series, Inconel

international standard.

ISO 10380, BS 6501

- Mechanical, normal pitch hoses.
- Mechanical, wide pitch hoses.
- Mechanical, narrow pitch hoses.
- Hydroformed, normal pitch hoses.
- Hydroformed, high pressure hoses
- Hydroformed, wide pitch hoses.

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smooth bore and convoluted ptfe hoses.

Our PTFE hoses are engineered for exceptional chemical resistance, high-temperature tolerance, non-stick properties, and superior flexibility, making them ideal for demanding industrial applications.

At Ocelflex, we offer both thin wall and thick wall PTFE hoses. The thin-walled PTFE hoses are externally braided with high-tensile stainless steel wire, providing increased flexibility even in compact or restricted spaces. The thick-Walled PTFE Hoses: Designed for high-pressure applications, thick-walled PTFE hoses offer superior strength and durability, albeit with highly reduced flexibility. These are particularly suited for critical systems where pressure containment is a priority.

Smooth Bore flexible PTFE Hose

Designed for seamless, unrestricted flow, smooth bore PTFE hoses ensure minimal pressure drop and high-purity fluid transfer. Their non-stick, easy-to-clean surface makes them particularly suitable for applications requiring hygienic and contamination-free operation.

Convoluted Bore flexible PTFE Hose

Convoluted PTFE hoses feature spiral corrugations, offering enhanced flexibility and compressibility while maintaining the superior chemical and thermal properties of PTFE. These hoses are ideal for applications requiring tight bend radii, vibration absorption, and high mechanical movement adaptability.

Tufted or Flared PTFE assemblies

At Ocelflex Industries, we offer a special procedure resulting in flared and tufted end fittings, providing significant performance benefits such as leak-proof assemblies, extended Service Life and optimized flow & cleanability.

Vacuum flexible PTFE Hose

Designed for high-vacuum applications, Ocelflex vacuum flexible PTFE hoses offer excellent collapse resistance, superior flexibility, and chemical compatibility, ensuring reliable performance in demanding environments.

Electrically conductive & antistatic PTFE Hose

Ocelflex electrically conductive and antistatic PTFE hoses are engineered with carbon-filled PTFE to safely dissipate static charges, making them ideal for flammable fluids, explosive atmospheres, and high-speed fluid transfer applications.

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diameter.

1/4 inch NB to 6 inch NB

variations.

Electrical conductive, Vacuum

pressure and temperature.

Upto 60 bar, -60°C to 230°C

hose and braid material.

PTFE and AISI 304L, 316L

special products.

Thick walled, flare through



lightweight, flexible & high-performance fluid transfer solution.

A composite hose is a multi-layered, flexible hose designed for safe and efficient transfer of chemicals, fuels, oils, and gases. Engineered with multiple layers of thermoplastics, films, and reinforcement wire spirals, composite hoses offer exceptional flexibility, chemical resistance, and lightweight handling compared to traditional metal or rubber hoses.

Ocelflex manufactures wide range of composite hoses, usually used for suction and discharge, each suitable for particular application. We can also customize our hose design for your particular application. Some of our commonly used hoses are :

- Medium Duty Oil Composite Hose
- Medium Duty Chemical Composite Hose
- Medium Duty Chemical PTFE Composite Hose
- Medium Duty Aviation Fuel Composite Hose
- Cryogenic Composite Hose
- Heavy Duty Oil Dock Hose
- Heavy Duty Chemical dock composite hose
- Heavy Duty Chemical dock PTFE composite hose
- High Temperature Composite Hose

diameter.

3/4 inch NB to 12 inch NB

length.

Upto 20 mtrs.

pressure and temperature.

Upto 20 bar, -40°C to 150°C

composite hose material.

Polyamide fabric and film, polyester barrier, Stainless Steel Wire

international standard.

EN 13765, EN 13766

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engineered for thermal & mechanical movement compensation

A metal expansion joint, also known as a compensator, is a flexible, engineered component designed to absorb thermal expansion, mechanical movement, and vibrations in piping systems. Metal expansion joints are critical in industries where temperature fluctuations, pressure variations, and mechanical stress can impact piping efficiency, including power plants, chemical industries, refineries, and HVAC systems.

Axial expansion joints and bellows

- Designed to absorb linear thermal expansion along the pipe axis.
- Can accommodate movement in one direction, reducing pipe stress.
- Commonly used in steam, gas, and liquid pipelines.

Lateral expansion joints and bellows

- Engineered to absorb lateral (side-to-side) movement.
- Typically used in piping systems with directional changes.
- Often designed with tie rods to control excessive movement.

Angular or hinged expansion joints and bellows

- Allows rotational movement around the joint's center.
- Used in systems with large angular deflections.
- Installed with hinges or gimbals structures to support specific directional movement.

Universal expansion joints and bellows

- Combines two bellows with a center pipe to accommodate axial, lateral, and angular movements.
- Suitable for complex piping layouts where multi-directional movement occurs.

Pressure balance expansion joints and bellows

- Designed to absorb axial and lateral movements while maintaining system pressure balance.
- Used in pipelines with limited anchoring options to prevent excessive force on the system.

At Ocelflex we customize the expansion joint to enhance the performance and stability to specific specifications such as installing Tie rods and Limit Rods, external covers, internal liners, flanged or welded ends, vacuum support rings and reinforcement.

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diameter.

1 1/2 inch NB to 60 inch NB

design.

single and multiply design.

pressure and temperature.

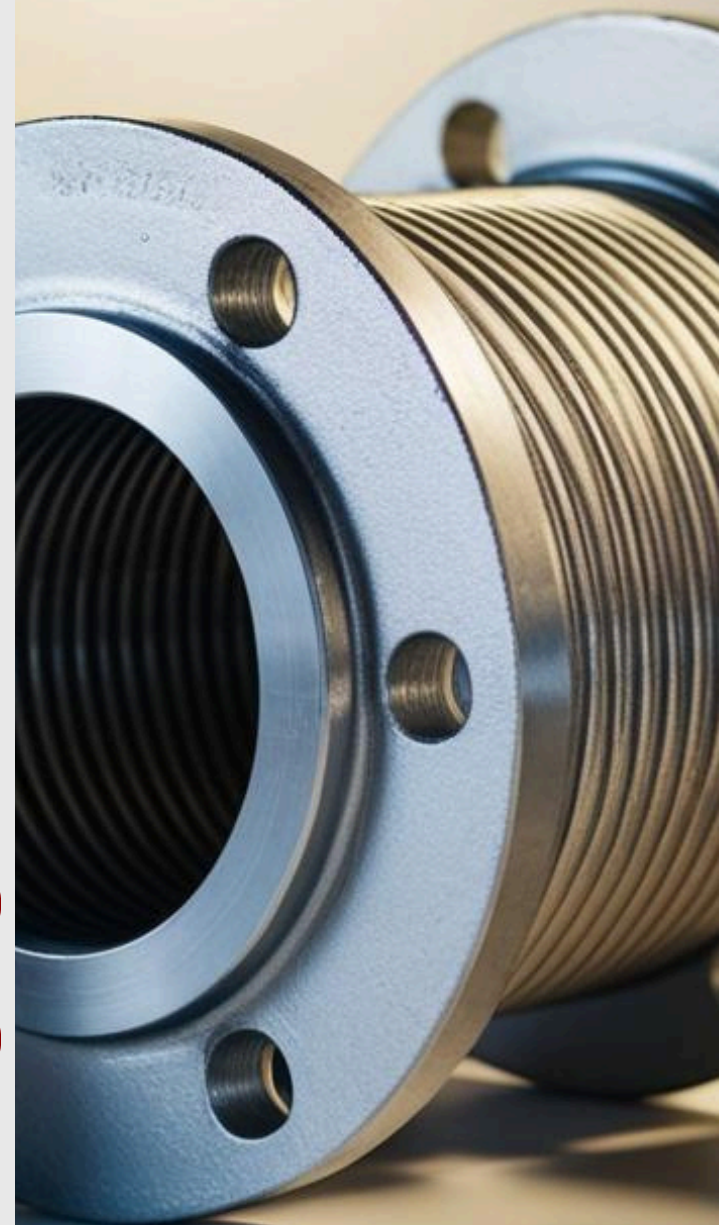
Upto 40 bar, -60°C to 1300°C

expansion bellow material.

SS 300 series, inconel, hastelloy

standard.

EJMA X, ASME





flexible solutions for vibration & movement absorption.

A rubber expansion joint is a flexible connector designed to absorb movement, vibrations, and misalignments in piping systems while compensating for thermal expansion, pressure fluctuations, and noise reduction. These joints are made from reinforced elastomers with high-strength synthetic fiber or metal reinforcements, offering exceptional flexibility and durability in demanding applications.

Rubber expansion joints are widely used in industries such as HVAC, water treatment, power generation, chemical processing, and marine engineering, where they help protect piping systems from mechanical stress and prolong service life. At Ocelflex we offer three types of rubber expansion joints :

Single Arch Rubber Expansion Joint

- Designed for axial, lateral, and angular movement compensation.
- Offers excellent vibration isolation and shock absorption.
- Ideal for pumps, compressors, and piping systems requiring flexibility.

Double Arch Rubber Expansion Joint

- Provides greater flexibility and movement absorption compared to single-arch designs.
- Reduces pressure loss and minimizes stress on pipelines.
- Suitable for high-displacement applications.

Dual Sphere Rubber Expansion Joint

- Features a compact design with improved flexibility.
- Helps in reducing water hammer effects.
- Commonly used in high-pressure fluid transfer systems.

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diameter.

1 inch NB to 50 inch NB

pressure and temperature.

Upto 25 bar, -50°C to 120°C

reinforcement material

Nylon or polyester or metal

standard

EJMA, ASTM



flexibility & durability for high-performance exhaust systems

An automotive exhaust expansion joint, also known as an exhaust flex joint or exhaust flex element, is a specialized component designed to absorb vibrations, thermal expansion, and misalignments in vehicle exhaust systems. These joints are crucial for preventing stress fractures, enhancing engine performance, and reducing noise and emissions in modern exhaust systems.

Manufactured using high-grade stainless steel (304, 316, 321) or Inconel®, automotive exhaust expansion joints are engineered to withstand high temperatures, corrosive exhaust gases, and continuous mechanical stress.

Standard exhaust flexible expansion joint

- Single-ply or double-ply corrugated stainless steel construction.
- Used in cars, motorcycles, and commercial vehicles.
- Provides basic vibration dampening and expansion absorption.

Interlock liner exhaust flexible expansion joint

- Features an internal strip wound liner for enhanced durability. Suitable for heavy-duty vehicles.
- Protects against exhaust flow turbulence and high-velocity gases.

Stainless Steel braided exhaust flexible expansion joint

- Reinforced with a high-tensile stainless steel wire braid.
- Improves flexibility and protects the inner bellows from external damage.
- Common in turbocharged and performance exhaust systems.

High - temperature exhaust flexible expansion joint

- Made from Inconel® or heat-resistant stainless steel alloys.
- Designed for extreme heat conditions in race cars, trucks, and industrial vehicles.

Based on your requirement or OEM design, we customize the exhaust flex tubing to enhance the performance with additional accessories such as outer liner, double wire braid, high temperature coatings and outer interlock lining.

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diameter.

1 1/4 inch NB to 4 inch NB

pressure and temperature.

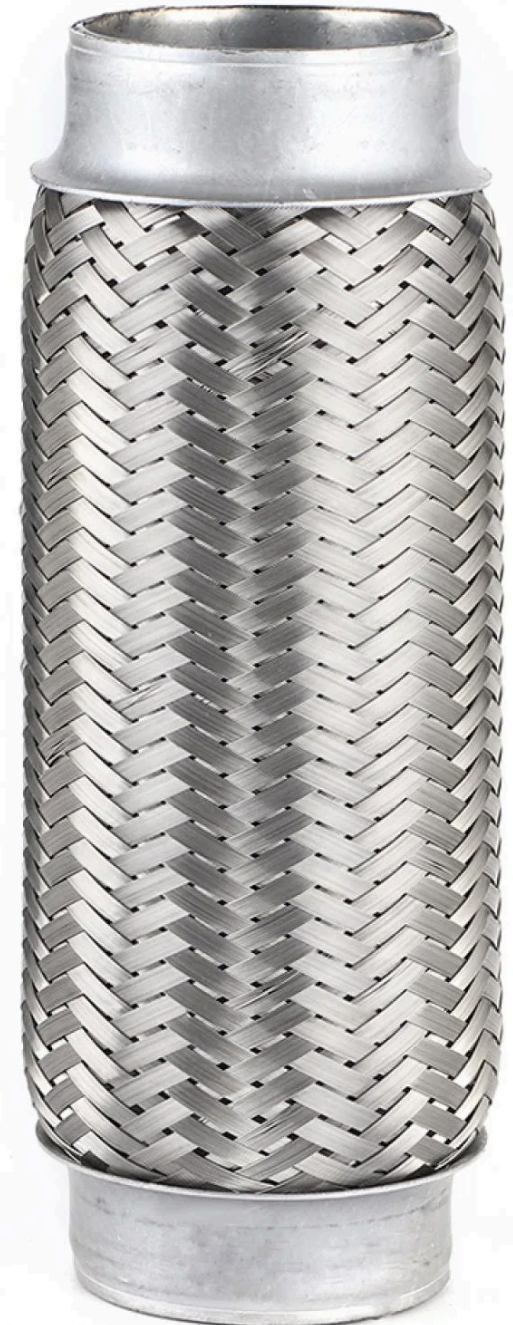
Upto 8 bar, -40°C to 900°C

material

SS 300 series, inconel

end connections.

Welded, flanged or Slip-on





For domestic queries
sales@ocelflex.com
+91 7559118979

For international queries
international.sales@ocelflex.com
+91 9820003074

Factory
Survey No. 242 to 246, Unit No. 1 & 2, Rajlaxmi Industrial Estate
Chinchpada, Vasai East 401 208. Dist. Palghar, Maharashtra, India.

www.ocelflex.com