



Veuflex Technologies

Flexible Flow & Exhaust Solutions

Product Catalog

Flexible Hoses and Bellows, Exhaust Solutions



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SS Flexible Hose Assemblies

SS Flexible Hose Assemblies are designed for robust conveyance of fluids and gases under high pressure, vacuum, and extreme temperatures. Constructed from a corrugated SS inner tube (SS 304, 316L, 321) and reinforced with high-tensile SS wire braiding, these hoses provide excellent flexibility, absorb vibration, and compensate for misalignment in piping systems.

Key Features

- Corrugated SS inner core (annular or helical).
- Reinforced with single or double SS 304/316 wire braid.
- High resistance to pressure, temperature, and corrosion.
- Absorbs vibration and reduces noise.
- Full vacuum capability.
- Wide range of end fittings (flanged, threaded, quick-release).
- Custom-fabricated lengths and assemblies.



Parameter	Specification
Hose Material	SS 304, 316L, 321
Braid Material	SS 304, 316
Nominal ID (Size)	1/4" to 12" (DN6 to DN300)
Outer Diameter (OD)	Varies by ID and braid (e.g, 1/2" ID is approx. 0.80" OD)
Construction	Annular or Helical Corrugation
Braid Type	Flanges (ASME, DIN), Threaded (NPT, BSP), Camlock, Weld End
Pressure Rating	Up to 250 Bar (decreases with larger size)
Temperature Rating	-200°C to 700°C
Min. Bend Radius	Varies by size (e.g, 1/2" ID is approx. 100mm)

Applications

- ✓ Steam, hot water, and thermal oil lines
- ✓ Chemical transfer and processing
- ✓ High-temperature hydraulic systems
- ✓ LNG and cryogenic applications
- ✓ Food and beverage (sanitary fittings available)
- ✓ Pump and compressor connections



SS Bellows

Stainless Steel (SS) Bellows are precision-engineered flexible components designed to provide a hermetic seal while absorbing movement. Manufactured using multi-ply, hydroformed, or edge-welded (diaphragm) design, these bellows are critical components in systems requiring high-cycle life, flexibility, and reliability in a compact form, such as in valves or vacuum equipment.

Key Features

- High-grade SS 316L, 321, or Inconel/Hastelloy
- Multi-ply construction for high flexibility and pressure resistance.
- Hydroformed (U-shape) or edge-welded (diaphragm) design.
- Excellent fatigue resistance for high-cycle applications.
- Provides a leak-tight, all-metal seal.
- Customizable spring rates and end configurations.



Parameter	Specification
Material	SS 316L, 321, Inconel 625, Hastelloy C276
Design	Hydroformed (Annular) or Edge-Welded
Number of Plies	1 to 5 plies
Size Range	Primarily 1/2" to 24" diameter
Movement	Primarily Axial (compression/extension)
Pressure Rating	Full Vacuum to 50 Bar (design dependent)
Temperature Rating	-196°C to 850°C
Spring Rate	Custom-engineered per application

Applications

- ✓ Bellows-sealed valves
- ✓ Vacuum interrupters and feedthroughs
- ✓ Semiconductor manufacturing equipment
- ✓ Instrumentation and sensors (pressure accumulators)
- ✓ Flexible seals for engine components
- ✓ Aerospace fuel and pneumatic systems



Expansion Joints

Veuflex Metallic Expansion Joints are engineered to absorb thermal expansion, vibration, and mechanical movement in piping systems. Manufactured from high-grade stainless steel bellows, these joints are ideal for applications requiring flexibility, pressure containment, and long service life in high-temperature, corrosive environments.

Key Features



Metallic Expansion Joint with Tie Rods



Expansion Joint with Inner Sleeve



Gimbal Expansion Joint

Technical Specifications

Parameter	Specification
Bellows Material	SS 304, 316L, Inconel 625/600
Design	Single-ply or multi-ply
Inner Sleeve	Optional for smoother flow & protection
Connection Types	Weld ends, flanges (ASME, DIN)
Size Range	1" to 40" (DN25 to DN1000)
Length	Custom-fabricated to requirements
Pressure Rating	Up to 25 Bar
Temperature Rating	Up to 950°C (1740°F)
Movement Absorption	Axial, Lateral, and Angular



Expansion Joint with Inner Sleeve



Applications

- Industrial exhaust systems
- Power plants and boiler connections
- HVAC and ducting systems
- Oil & gas and petrochemical plants
- Chemical and food processing equipment
- Pump and compressor connections



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Exhaust Bellows

Veuflex Exhaust Bellows are specifically designed to handle the harsh conditions of engine exhaust systems. They absorb high-frequency vibrations, thermal expansion, and severe engine movements, preventing stress and cracking in exhaust manifolds, pipes, and turbo charges. Their robust construction ensures durability against high temperatures, corrosive exhaust gases, and constant vibration.

Key Features



Multi-ply SS 309, 316L, or 321 construction for high temperature

Parameter	Specification
Material	SS 309, 321, 316L, Inconel 625
Design	Multi-ply U-shape corrugations
Inner Sleeve	Optional (SS 304/316)
External Braid	Optional (SS 304)
Size Range	Weld ends, V-band clamps, Flanges 1" to 48" internal diameter
Temperature Rating	Up to 1000°C (conf diameter)
Movement Absorption	Axial: ± 20 mm, Angular: $\pm 15^\circ$, Lateral: ± 10 mm (Sample, design specific)

Applications

- Diesel and natural gas engine exhaust manifolds
- Turbocharger connections
- Marine engine exhaust systems
- Power generation (Gen-sets)
- Off-road heavy machinery (earthmoving, mining)
- Automotive exhaust flex pipes





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Interlock Hose

Veuflex Interlock Hose is a heavy-duty flexible metal hose constructed from a single strip of stainless or galvanized steel, helically wound and interlocked. This design creates an exceptionally strong, crush-resistant conduit. It is ideal for abrasive material transfer, dry bulk handling, and as a protective armor for other hoses or cables.

Key Features

- Fully interlocked, helically wound construction.
- Extremely high crush and abrasion resistance.
- Available in SS 304 or Galvanized Steel.
- Remains flexible under heavy use.
- Can be lined or packed (e.g., with cotton, rubber) for sealing.
- Can be used as an outer armor or a standalone transfer hose.



Fully interlocked, helically wound construction.

Parameter	Specification
Material	SS 304, Galvanized Steel
Profile	Interlocked (Square-lock or Interlock)
Packing/Lining	Optional (Cotton, rubber, silicone) for partial sealing
Size Range	1/2" to 16"
Flexibility	Good (bending radius approx. 6x-10x ID)
Pressure Rating (if unpacked)	Low pressure / gravity flow (if unpacked)
Temperature Rating	Up to 750°C (for SS, unpacked)

Applications

- Protective casing for electrical wires and cables
- Transfer of dry bulk materials (grains, pellets, powders)
- Ducting for high-temperature air, fumes, or dust
- Armor for delicate inner hoses (e.g., rubber, PTFE)
- Engine exhaust (unpackaged, heavy-duty)
- Tar and asphalt transfer





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Rubber Hose and Assemblies

Veuflex Industrial RubberHose Assemblies are versatile, multi-purpose solutions for transferring a wide variety of media, including water, air, oil, chemicals, and abrasive materials. Constructed with a specialized inner tube, reinforced with **textile** or **steel wire** piles, and protected by a durable outer cover, these hoses offer excellent flexibility and resilience.

Key Features



- Application-specific inner tube (e.g., NBR, EPDM, SBR, UHMWPE).
- High-tensile textile or steel wire reinforcement.
- Weather, ozone, and abrasion-resistant outer cover.
- Excellent flexibility and kink resistance.
- Available for suction, discharge, or steam applications.
- Professionally crimped or clamped end connections.

Technical Specifications

Inner Tube	NBR (Nitrile), EPDM, SBR, UHMWPE, Natural Rubber
Reinforcement	Textile plies, Steel wire helix, Steel wire braid
Size Range	1/4" to 24"
Connection Types	Camlock, Flanges, Threaded (NPT, BSP), Storz
Pressure Rating	Vacuum to 600 Bar (application dependent)
Temperature Rating	-40°C to 200°C (media dependent, eg.)





Metallic Conduit

Veuflex Flexible Metallic Conduit (FMC) provides essential mechanical protection for electrical wiring and cables. Constructed from a helically wound, interlocked strip of steel or aluminum, this conduit is ideal for use in dry, indoor locations where flexibility is needed for installation around obstacles, or for connecting to vibrating equipment.

Key Features

- Helically wound, interlocked steel (galvanized) or aluminum.
- High flexibility and tight bend radius.
- Provides excellent crush and impact protection for wiring.
- Smooth interior for easy wire pulling.
- Available in standard and reduced - wall types.
- Available as Liquid-Tight FMC (with PVC jacket) for wet locations.



Helically wound, interlocked steel (galvanized) or aluminum.

Parameter	Specification
Material	Galvanized Steel, Aluminum
Construction	Helical interlocked strip (Square-lock)
Trade Size	PVC (for Liquid-Tight FMC)
Flexibility	3/8" to 4"
Listings	High
Listings	Conforms to relevant electrical standards (e.g., UL 1)
Temperature Rating	-20°C to 105°C (typical or associated wiring)

Applications

- Commercial and industrial building electrical wiring
- Connecting lighting fixtures and receptacles
- Motor and equipment connections (vibration)
- Data centers and communication closets
- Under-floor and raised-floor wiring systems
- OEM machinery and control panel wiring





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DG Set Bellows and Silencers

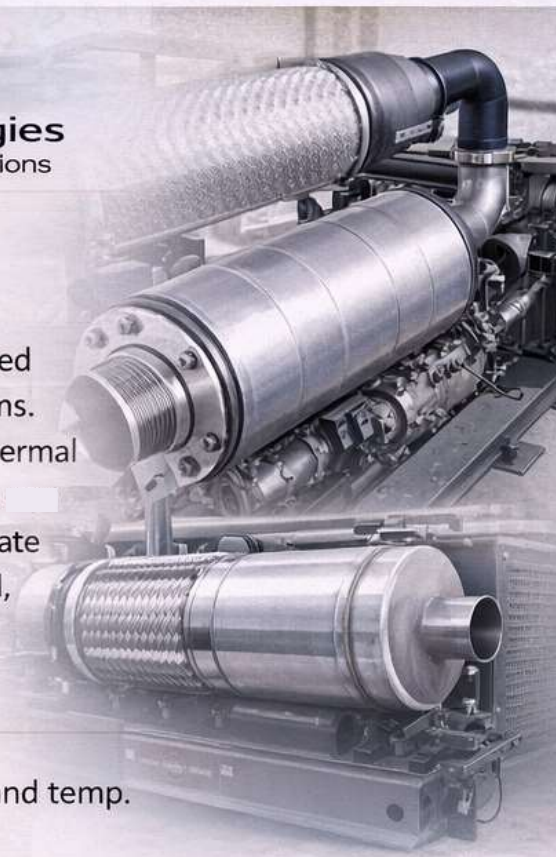
VeuflexDG Set Bellows and Silencers are an integrated solution for diesel generator (DG) exhaust systems. The SS bellows absorb high engine vibration and thermal expansion, protecting the silencer and exhaust piping fatigue. The silencer (**muffler**) is engineered to attenuate high-decibel engine noise to meet residential, industrial, or critical noise level standards.

Key Features

- **Bellows:** Multi-ply SS 321/309 for high vibration and temp.
- **Silencer:** Heavy-gauge MS or SS construction.
- **Noise Reduction:** Reactive, absorptive, or combination designs,
- **Attenuation Levels:** Industrial, Residential, Critical, Hospital grades.
- Integrated flanged or weld-end connections.
- Weather-resistant paint or cladding for outdoor use.

Technical Specifications

Parameter	Specification
Bellows Material	SS 321, 309, 316
Silencer Material	Mild Steel (MS), SS 304, SS 409
Design	Absorptive (packed) or Reactive (chambered)
Noise Attenuation	15 dBA (Industrial) to 45+ dBA (Hospital)
Connection Types	Flanges (ANSI, DIN), Weld ends
Size Range	2" to 36" (matches common DG set set outlets)
Temperature Rating	Up to 650°C
Finish	High-temperature black paint, Aluminum-clad





SS and MS Fittings

Veuflex offers a comprehensive range of high-quality fittings for connecting, terminating, and adapting industrial piping and hose systems. Manufactured from durable Stainless Steel (for corrosion resistance) or Mild Steel (for general industrial use), these fittings ensure leak-proof, reliable performance. Our range includes flanges, couplings, nipples, and reducers.

Key Features

- Wide range of types: flanges, elbows, tees, reducers, couplings, nipples.
- **SS:** Grades 304/304L, 316/316L for superior corrosion resistance.
- **MS:** Grades (e.g., A105, A234) for strength and weldability.
- Precision machined threads (NPT, BSPT, BSPP).
- Flanges available in various standards (ASME, DIN, JIS).
- Weld fittings (butt-weld, socket-weld) available.



Technical Specifications

Parameter	Specification
Material	SS (304, 304L, 316, 316L), MS (A105, A234, WPB)
Types	Flanges (WNRF, SORF, BLRF), Elbows (90°, 45°),
Connection Types	Threaded, Socket-Weld, Butt-Weld, Flanged
Thread Standard	NPT, BSPT, BSPP
Pressure Class	150#, 300#, 600# (Flanges); 3000, 6000 (Forged)
Size Range	1/8" to 24"



Applications

- Integration with SS and rubber hose assemblies
- General industrial piping
- Petrochemical and chemical plants
- Water treatment and distribution
- Food and beverage processing
- Hydraulic and pneumatic systems





Flexible Metal Couplings

Veuflex Flexible Couplings are mechanical devices used to connect two rotating shafts, transmitting torque while compensating for misalignment (angular, parallel, and axial). These couplings protect rotating equipment like pumps and motors from the stresses of misalignment, vibration, and shock loads, thereby extending bearing and seal life.

Key Features

- Available in various types: Jaw, Tyre, Gear, Bellows, Disc.
- Accommodates angular, parallel, and axial shaft misalignment.
- Dampens vibration and absorbs shock loads.
- Torsionally rigid or flexible designs available.
- High torque transmission capacity.
- Materials include cast iron, steel, SS, and elastomeric elements (PU, Rubber).



Technical Specifications

Parameter	Specification
Coupling Type	Bellows
Body Material	Stainless Steel, Aluminum
Flexible Element	Stainless Steel (Disc/Bellows)
Bore Size Range	10mm to 300mm
Torque Rating	Angular (up to 4°), Parallel (up to 6mm) (Type dependent)
Temperature Rating	-30°C to 120°C (Elastomer dependent)

Applications

- Pump and motor connections
- Gearbox to motor shaft
- Conveyor belt drives
- Fans and blowers
- Industrial mixing equipment
- Machine tools and automation





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SS Wire Braided Exhaust Connector



SS Wire Braided Exhaust Connet



SS Wire Braided Exhaust Connector Line



SS Bellow with Flange



SS Bellow witSwivll Flange



SS Bellows for Steam



Metallic Expansion Joints with Tie Rods



Universal Metallic Expansion Bellow with Tie Rods



Universal Metallic Expansion Bellow with Tie Rods



Rubber Hose Assemblies



SS Flexible Bellow Coupling



MS and SS Fitting



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**SS Metallic Flexible
Pump Connector**



**SS Hinged Expansion
Joint**



**Gimbal Expansion
Joint**



**Stainless Steel
Vacuum Bellows**



DG Set Bellows



SS Bellow Element



EGR Tubes



**Automotive Metallic
Oil Drain Tubes**



SS Hose Assemblies



Rectangular Bellow



DG Set Silencer



Metallic Conduits

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