

Materials

The materials used for the production of expansion joints, as well as other made-up products, are in the highest quality materials certified for mechanical and chemical properties.

Flange and motion limiters

kind of steel*	properties	The most common application
S235JR (St35) Hot dip galvanized	Construction steel for general use and application	Water supply, power plants and combined heat and power plants, mining industry, construction, and transport of loose materials.
1.4301 (0H18N9)	Acid-resistant, weldable, easy to process, the most commonly used acid-resistant grade.	Water supply and sewage treatment plants, power plants, combined heat and power plants, paper industry, food industry, construction, ship constructions, refining industry
1.4401 (0H17N12M2T) 1.4404 (00H17N14M2)	Acid-resistant, weldable, with reduced carbon content, good resistance to chlorides	Water supply and sewage treatment plants, power plants and combined heat and power plants, paper industry, food industry, construction, ship constructions, refinery and chemical industry

Rubber bellow

Trade name	Rubber mixture	Range of temperatures	Properties
EPDM	etylenopropylen	-25°C do +100°C	Acid and alkali resistant at medium concentration. Medium wear resistant for acids and lyes, water and ozone. Weatherproof and lightproof.
NBR	akrylonitrylobutadien rubber	-20°C do +85°C	Oil-resistant. Medium wear resistant. Also for mineral oils, acids, water, water-oil emulsions, water solutions of glycol, kerosene, vegetable fats.
CR	chloroprene caoutchouc	-20°C do +70°C	Oil-resistant. It is characterized by high resistance to ozone, atmospheric aging, chemical agents, flames, diesel, glycols, salt solutions, water and steam, diluted acids and alkalis.
SBR	butadienostyrene caoutchouc	-20°C do +75°C	Resistant to inorganic acids and bases, ozone, atmospheric factors, high temperature, water, alcohols.
NR	natural caoutchouc	-20°C do +65°C	For general use. Highly wear. Among other things destined to low concentrated bases and acids, trace amounts of mineral oils, water, and low-temperature alcohols.

* others kinds of rubber available on demand

