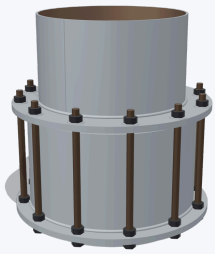
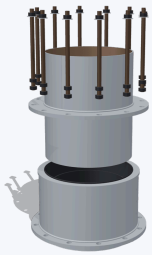
Stuffing-box expansion joint

Salnikli kompensator

The stuffing-box expansion joint is the most reliable, time-tested engineering device for absorbing the thermal expansion and contraction of metal (thermal deformation) on high-temperature trunk pipelines.







WORKING PRESSURE	DIAMETERS	COMPENSATION	STANDARD
up to 10 kgf/cm² (1 MPa)	DN 100 – DN 1400	200–600 mm	Series 4.903-10, 5.903-13

How it works

The expansion joint works on a telescopic principle:

1. It consists of two main parts: an outer housing and an inner spigot pipe that slides into it.
2. A stuffing-box seal (asbestos or graphite cord, or graphite–PTFE packing) sits between them so pressure and the working medium don't escape as the pipes move. Long external bolts and nuts compress this seal to keep the joint tight.

Working pressure

In line with standard industrial norms (Series 4.903-10 and Series 5.903-13), stuffing-box expansion joints are designed to operate under the following conditions:

Maximum working pressure (PN / Py): up to 10 kgf/cm² (1 MPa).

up to 10 kgf/cm² (1 MPa)
PN / Py

Standard sizes

Nominal diameter (DN)	Outer diameter (Dн), mm	Compensation capacity, mm	Approximate weight, kg
DN 100	108	200	~25–35
DN 200	219	200–300	~50–70
DN 300	325	200–400	~90–130
DN 400	426	300–400	~160–210
DN 500	529	300–450	~240–280
DN 600	630	300–450	~320–390
DN 800	820	400–500	~550–680
DN 1000–1400	1020–1420	500–600	more than 900 kg

Weight is approximate; the exact figure depends on order parameters.

Advantages

Greater compensation range

Absorbs a far greater pipeline elongation (travel) than other expansion joint types, such as bellows or rubber ones.

Easy to service

When the packing wears out, it's repaired without cutting the pipe — just loosen the bolts and add fresh packing.

Cost-effective

On large-diameter pipelines it is significantly cheaper than bellows expansion joints and the more economical choice.

Orders and pricing

Send us the diameter and parameters you need and we will prepare a quote.

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