





ISO 9001: 2008





PED/97/23/CE



Size: DN 25 to 250

Ends: Flanges PN16 R.F.

Min Temperature : - 20°C Max Temperature : + 300°C Max Pressure : 16 Bars

Specifications: Axial movement

With internal liner Stainless steel bellow

Materials: Carbon steel flanges





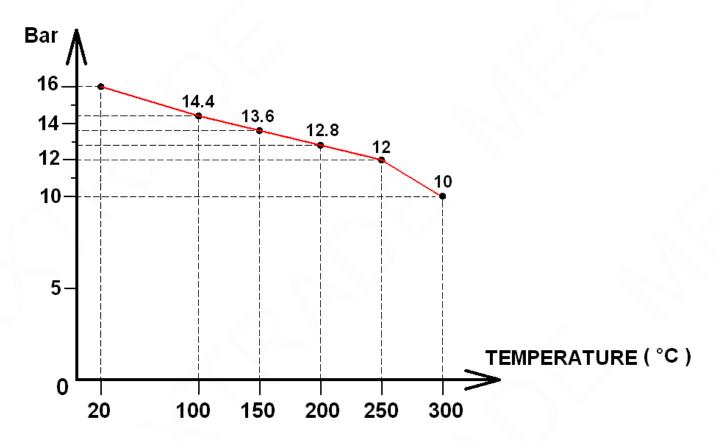
SPECIFICATIONS:

- Axial movement
- · Respect the flow direction indicated by the arrow
- Stainless steel bellow
- With internal liner
- Carbon steel flanges PN16 R.F.

USE:

- For common fluids
- Min Temperature Ts: 20°C
- Max Temperature Ts :+ 300°C
- Max Pressure Ps : 16 bars (see graph)
- Axial movement only

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED):



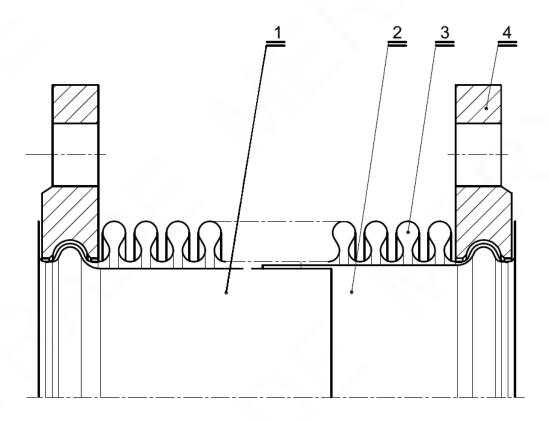
RANGE:

Carbon steel flanges R.F.PN16 from DN25 to DN250





MATERIALS:

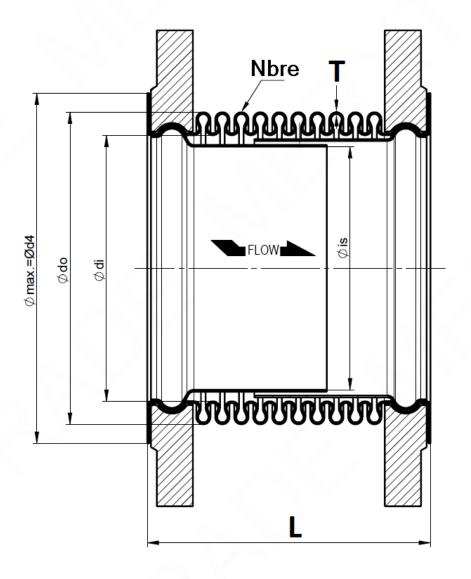


Item	Designation	Materials
1	Internal liner	SS 321
2	Internal liner	SS 321
3	Bellow	SS 321
4	Flanges	Steel St 37.2





SIZE (in mm):

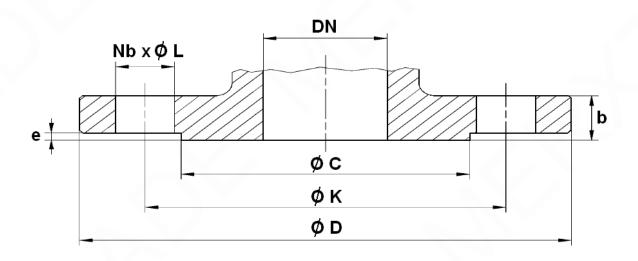


Ref.	DN	25	32	40	50	65	80	100	125	150	200	250
1521	L	105	105	120	150	140	155	220	190	270	275	285
	Ø do	48.2	55.6	61	77	96	112	141	165	201	252	314
	Ø di	38	42.4	48.3	60.3	76.1	88.9	114.3	139.7	168.3	219.1	273
	Ø d4 (max)	68	78	88	102	122	138	158	188	212	268	320
	Ø is	32	36	41.4	53.5	70	78	103.5	127.3	156	207	256
	Т	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.8	1
	Waves Nbre	17	17	17	20	16	15	20	16	20	16	14
	Weight (in Kg)	2.05	3.09	3.38	4.62	5.65	7.02	8.77	11.24	15.11	21.07	31





FLANGES SIZE (in mm):



Ref.	DN	25	32	40	50	65	80	100	125	150	200	250
	øс	68	78	88	102	122	138	158	188	212	268	320
	Ø D	115	140	150	165	185	200	220	250	285	340	405
1521	øк	85	100	110	125	145	160	180	210	240	295	355
	Nb x Ø L	4 x 14	4 x 18	4 x 18	4 x 18	4 x 18	8 x 18	8 x 18	8 x 18	8 x 23	12 x 23	12 x 27
	b	16	16	16	18	18	20	20	22	22	24	26
	е	2	2	3	3	3	3	3	3	3	3	4





MOVEMENTS (in mm):

DN	25	32	40	50	65	80	100	125	150	200	250
Axial movement	± 11	± 10	± 13	± 20	± 20	± 25	± 32	± 33	± 40	± 33	± 40

STANDARDS:

Fabrication according to ISO 9001 : 2008

 DIRECTIVE 97/23/CE : CE N° 0036 Risk category II Module A1

• Flanges R.F. according to EN 1092-1 PN16

• Designing according to EN 14917

ADVICE : Our opinion and our advice are not guaranteed and MXT shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.





INSTALLATION INSTRUCTIONS:

Stainless steel compensators are designed for the absorption of previously specified movements under specific pressure and temperature conditions.

So that the maximum service life is achieved, the following items must be observed during installation.

1. Pipeline:

Prior to fitment of the compensator it must be ensured that:

- The route of the pipeline is straight.
- The expansion tallies with that of the chosen compensator.
- The fixed points are dimensioned so that they can absorb the reaction forces and stiffness rate that arise during use.
- The pipeline is limited by fixed points.
- Only one compensator is not subjected to torsion.

2. Pipe route:

The fixed points and route bearings must be located so that:

- The compensator is not subjected to the weight of the pipeline.
- Sagging is prevented by the inclusing of fixed or loose
- Suspension in self-aligning bearings is avoided. Plain or roller bearings are to be used as the guide bearings.

3. Location of the guide bearings:

- The distance between the compensator and the 1st bearing may be a maximum of 4 times the pipe diameter.
- The distance between the 1st and the 2nd bearing may be a maximum of 14 times the pipe diameter.
- The distance between the remaining pipe bearings may be a maximum of 21 times the pipe diameter. This distance may have to be reduced, where this is required for the inherent stability of the pipe.

4. The following items must be taken into account during installation:

- The possibily provided protective covering of the bellows may only be removed after installation.
- Possible prétensioning devices may only be removed after installation.
- On compensators fitted with an arrow, check that the direction of the arrow matches the direction of flow
- The bellows must be protected from welding, plaster and mortar spatter.
- During handling, ensure that the bellows does not come into contact with tools or lifting equipment All lifting must take place by means of the eyes, welded ends or flanges
- The installation length must agree with the installation gap.
- When insulating the pipeline, the bellows must be previously sheathed with a thin sheet of stainless steel.

5. Trasportation and storage of the compensator:

- During transportation and storage, the compensator must be protected from moisture and all manner of fouling.
- Storage must take place on a flat, firm timber base.
- Bending due to heavy connections components must be prevented by timber supports (not in way of the bellows).

MAINTENANCE OF THE COMPENSATORS

A correctly dimensioned and fitted compensator requires no special maintenance. It is however recommended that specific characteristics be observed during routine inspections, so as to avoid severe damage

1. Transportation and handling damage:

- Dents, abrasion and scratching due to incorrect handling
- Corrosion due to unexpected environmental effects, such as salts, chemicals, etc.

2. Damage due to assembly faults:

- Fitment of the compensator at a different position to that initially intended.
- Greater inaccuracies in the pipeline run than presumed.
- Premature or delayed removel of the assembly aids. Fitment of the compensator with baffle againts the direction of flow.
- Belows damaged by welding spatter.

3. Damage during use:

- Corrosion damage due to environmental effects, e.g.
- Corrosion damage, respectively limited movement due to a collection of firmly adhering dirt or due to hardening of the medium in the shafts.
- Fatigue failure due to unforeseen vibration or movement.

