RUBBER EXPANSION JOINT

Ref. 1501/1502/1503

Ref.: DS 1501

Rev.: 1

Date: 04/08

Page 1/2



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SPECIFICATIONS:

- . To absorb vibrations, compansion, noises and schocks in pipes
- . Linear and angular compansion

USE :

- . Water distribution (1501-1502)
- . Oil, air, hydrocarbon (1503)
- . Max temperature Ts: 100°C see graph (1501-1502)
- . Max temperature Ts: 80°C (1503)
- . Max pressure Ps: 10 bars to 20°C up to DN250

7 bars over

RANGE:

- Flanged EPDM PN10 GN10 Ref. 1501 DN32 to DN600
- . Flanged EPDM PN10 GN16 Ref. 1502 DN200 au DN300
- . Flanged NBR PN10 GN10 Ref. 1503 DN32 to DN200



DESIGNATION	MATERIALS
Bellow material 1501-1502	EPDM
Bellow material 1503	NBR
Brace	Carbon steel
Reinforcement	Synthetic fiber
Flanges	Cadmium steel

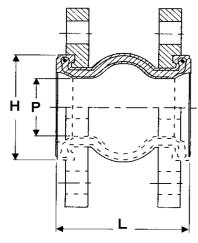


STANDARDS:

. DIRECTIVE 97/23/CE: Products excluded

SIZE :

	DN	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Ref.	L	95	95	105	115	130	135	170	180	205	240	260	265	265	265	265	265
1501	Н	69	69	85	106	116	150	180	209	260	320	367	408	472	522	570	690
1503	Р	40	40	52	68	76	103	128	152	194	250	300	320	372	415	454	580
	Weig.	3	3.57	4.11	5.13	6.23	6.98	9.64	12.4	17.3	22.7	29.15	38.9	48	55.4	66	73



Pressure (bar) DN32 à DN250 DN300 à DN600 Temperature (°C)

MOUVEMENTS (en mm) :









	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Compansion	8	8	8	12	12	18	18	18	25	25	25	25	25	25	25	25
Expansion	4	4	5	6	6	10	10	10	14	14	14	16	16	16	16	16
Lateral	8	8	8	10	10	12	12	12	22	22	22	22	22	22	22	22
Angular	10°	10°	10°	10°	10°	10°	10°	10°	10°	10°	10°	10°	10°	10°	10°	10°

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Page 2/2

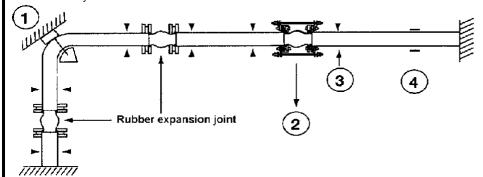


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INSTALLATION INSTRUCTION:

Expansion joint 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. 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 expansion tallies with that of The chosen compensator
- The fixes points are dimensionned so that they can absorb the reaction forces and stiffness rate that arise during use.
- The pipeline is limited by fixed points
- The distance between compensator and bearing may be a maximum of 3 times the pipe diameter. Place only one compensator between 2 bearings.
- 2. Each pipe elbow must be fixed by support, specially if compensator is mounted with limiters. Fixed bearings are necessary because compensator is submitted to expansion when it is under pressure.
- 3. Please apply the followingstages order:
 - a) Fixed points for above pipeline
 - b) Fixed points for down pipeline
 - c) Compensator mounting
- 4. Installation layout :



- 1. Fixed points
- 2. With limiters
- 3. Bearings
- 4. Pipe guides
- 5. Check that the compensator is not subjected to the weight of the pipeline. The installation lenght must agree with the installation gap.

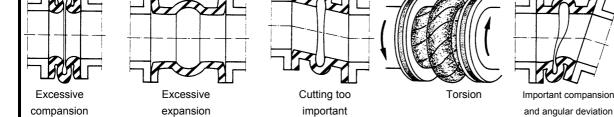
The compensator must never be twisted. It is recommanded that specific characteristics be observed during maintenance:

- The compensator must never be painted or recovered by heat insulation
- The tightness of the bolts must be checked often.
- The flanges must be perfectly cleared
- **6.** Use limiters: When the working pressure can excead the following values:
 - Up to DN100 : 10 bars
 - From DN125 to DN250: 9 bars
 - From DN300 to DN350 : 6 bars
 - From DN400 to DN600 : 3 bars

When there is some risk of high pressure (pump starting) or high temperature.

NOTA: The life of compensator can vary because of working conditions (fluids, pressure, temperature), that is why it is necessary to check it regullary.

WRONG INSTALLATION:







Angular deviation too important

ADVICE: Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the

consequences of damages. The customer must check the right choice of the products with the real service conditions