





Size: DN 32 to 300 Ends: Flanges PN10/16

Min Temperature : - 10°C Max Temperature : + 100°C Max Pressure : 16 Bars

Specifications: Absorb vibrations and noises

Linear and angular compansion

Single sphere

Materials: Electro galvanized steel flanges

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SPECIFICATIONS:

- Absorb vibration, noises and expansion
- Linear and angular compansion
- Single sphere EPDM
- Electro galvanized steel flanges PN10/16 up to DN150, PN10 over

Marking example (EPDM):

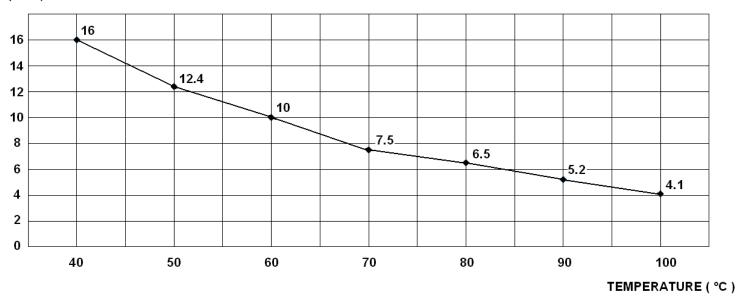


USE:

- Water distribution, heating and HVAC
- Min and max Temperature Ts: -10°C to + 100°C
- Max Pressure Ps: 16 bars

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED):

(Bar)



RANGE:

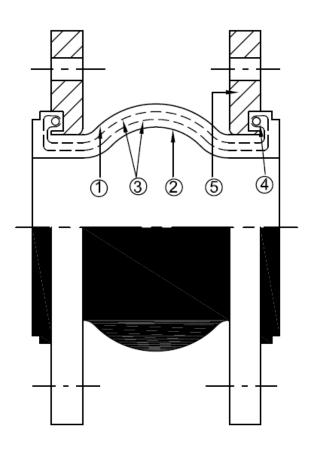
- EPDM expansion joint 130 mm long with steel flanges PN10/16 from DN 32 to DN 150 and PN10 over, Ref. 1505
- Expansion limiter (with 2 studs and 4 plates included) PN10 from DN 32 to DN 300 Ref. 9860607 to 9860617

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MATERIALS:

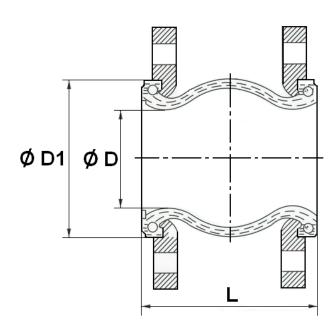


Item	Designation	Materials					
1	Cover	EPDM					
2	Inner tube	EPDM					
3	Reinforcement	Nylon cord					
4	Brace	Hard steel					
5	Flanges	Electro galvanized steel					

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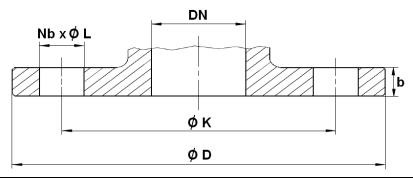


SIZE (in mm):



Ref.	DN	32	40	50	65	80	100	125	150	200	250	300
4505	L	130	130	130	130	130	130	130	130	130	130	130
	Ø D	29	36	48	63	72	92	123	144	199	254	295
1505	Ø D1	69	78	89	108	123	145	180	209	259	322	370
	Weight (Kg)	2.85	3.2	4.2	4.95	6	6.85	9.3	11.25	15.7	20.75	23.15

FLANGES SIZE (in mm):



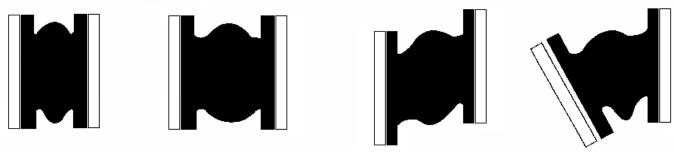
DN	32	40	50	65	80	100	125	150	200	250	300
Ø D	140	150	165	185	200	220	250	285	340	395	445
øк	100	110	125	145	160	180	210	240	295	350	400
Nb x Ø L	4 x 19	4 x 19	4 x 19	4 x 19	8 x 19	8 x 19	8 x 19	8 x 23	8 x 23	12 x 23	12 x 23
b	14	14	15	15	17	17	19	19	20	22	22

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MOVEMENTS (in mm):



Compansion Expansion Lateral Angular

DN	32	40	50	65	80	100	125	150	200	250	300
Compansion	8	8	8	12	12	12	16	16	20	20	20
Expansion	4	4	4	6	6	10	10	10	14	14	14
Lateral	8	8	8	10	10	12	12	12	18	18	18
Angular	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°

STANDARDS:

- Fabrication according to ISO 9001 : 2015
- DIRECTIVE 2014/68/EU: Products excluded from directive (Article 4, § 3)
- Flanges according to EN 1092-1 PN10/16

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.

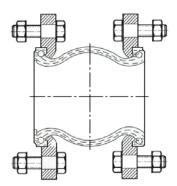
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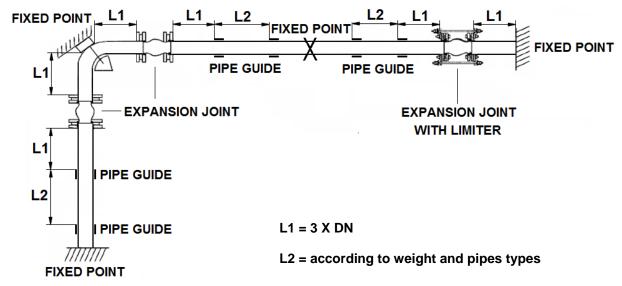
INSTALLATION INSTRUCTION:

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.

- 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.
- 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.
- Expansion joint must not be painted and heat-insulated. It must be protected from bad weather and solar radiation.
- During assembly operation, make sure screws are oriented according to the graph out below:



- Please apply the following stages order :
 - a) Fixed points for above pipeline
 - b) Fixed points for down pipeline
 - c) Compensator mounting
- Installation layout :

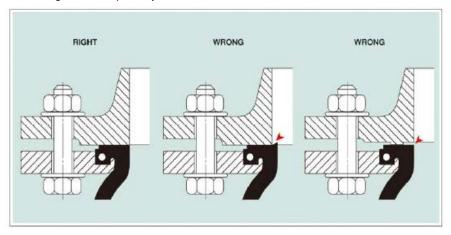


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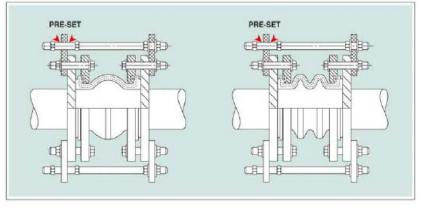
INSTALLATION INSTRUCTION (SUITE):

- 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 recommended that specific characteristics be observed during maintenance:
 - o The compensator must never be painted or recovered by heat insulation
 - o The tightness of the bolts must be checked often.
 - o The flanges must be perfectly cleared



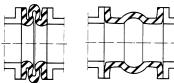
- Use limiters: When the working pressure can exceed the following values:
 - o Up to DN100 : 10 bars
 - o From DN125 to DN250 : 9 bars
 - From DN300 to DN350 : 6 bars
 From DN400 to DN600 : 3 bars
 - \circ $\,\,$ When there is some risk of high pressure (pump starting) or high temperature.

The control rod assemblies are pre-set at the maximum Allowable expansion and/or contraction of the joint during The commissioning or operating. It is strictly recommended For unanchored / unsupported system and also spring Mounted pumps or equipments.



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:

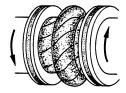


Excessive compansion

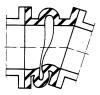




Cutting too important



Torsion



Important compansion and angular deviation



Angular deviation too important

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