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Industriepark-Noord 12
B - 9100 SINT-NIKLAAS

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**EXPANSION JOINT
EPDM
FIG 971**

DESIGN FEATURES

- expansion joint dn32 - dn600 PN10
- EPDM bellow
- temp : -10°C +100°C
- specifications :
 - absorbs vibrations and noises
 - linear and angular compansion
 - single sphere

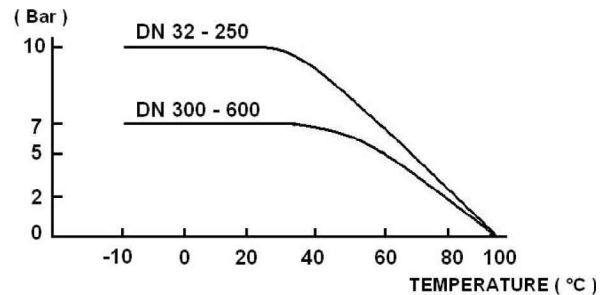
USE

- for water distribution
- max. pressure : up to 10 bar to dn250, 7 bar over

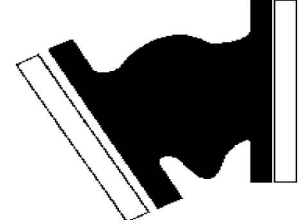
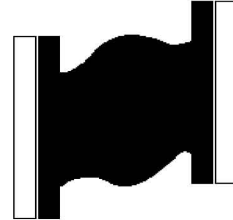
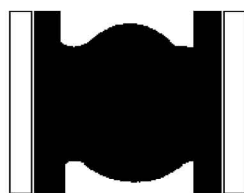
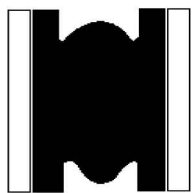
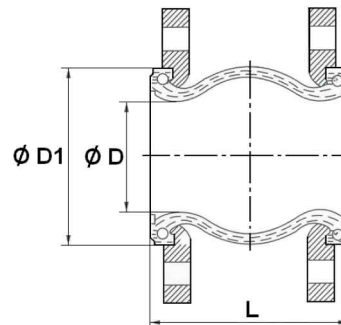
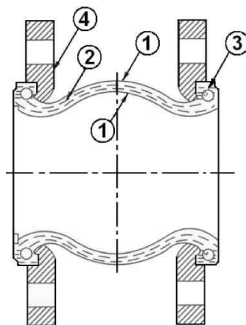


MATERIALS

item	Part name	Material
1	bellow	EPDM
2	reinforcement	nylon cord
3	brace	hard steel
4	flanges	galvanized steel



SIZE (in mm)



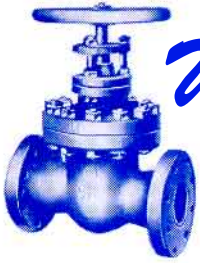
Compansion

Expansion

Lateral

Angular

DN	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	95	95	105	115	130	135	170	180	205	240	260	265	265	265	265	265
D	40	40	52	68	76	103	128	152	194	250	300	320	372	415	454	580
D1	69	69	85	106	116	150	180	209	260	320	367	408	472	522	570	690
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	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'	15'
kg	2,79	3,29	4,23	4,74	6,27	6,47	9,4	12,8	17,7	23,3	29,4	38,9	48	55,4	66	73
ref.	205150	205151	205152	205153	205154	205155	205156	205157	205158	205159	205160	205161	205162	205163	205164	205165



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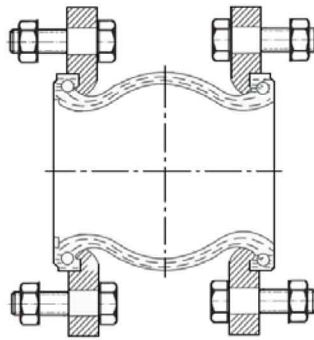
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EXPANSION JOINT EPDM FIG 971

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.

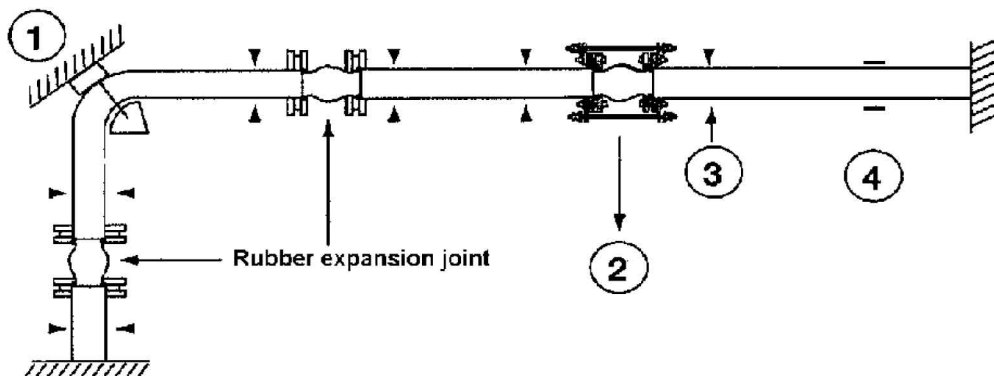
- Prior to fitment of the compensator it must be ensured that :
 - The route of the pipeline is straight - The expansion tallies with that of the chosen compensator
 - The expansion tallies with that of The chosen compensator
 - The fixes points are dimensionned so that they can absorb the reaction forces 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 :



1. Fixed points
2. With limiters
3. Bearings
4. Pipe guides

- 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 :
 - 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