Rubber Expansion Joints
Type FAEM

Application

Rubber Expansion Joints are designed to compensate axial, angular and lateral deviations of the pipe geometry due to e.g. assembly misalignments. Furthermore they are installed to absorb vibrations and noises, they serve to compensate expansions caused by variations of temperature and they are easily to remove when revising the pipeline. Hence they are indispensable in pipeline construction.

Operational areas:
- Pipes
- Pressure work pipes
- Flue gas and air ducts

Applicable fluids:
- Water
- Warm water
- Seawater
- Weak acids
- Alkalies
- Additional fluids upon request

Available flange drillings:
- DIN
- ANSI

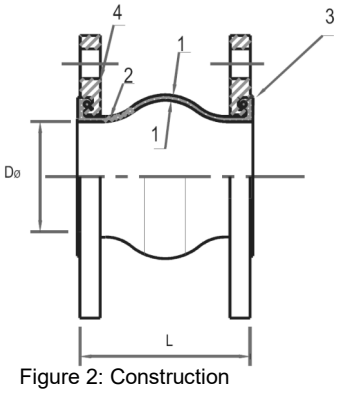
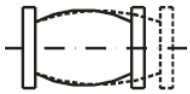
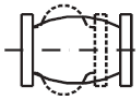
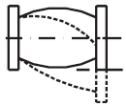


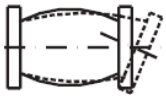
Figure 2: Construction

Design / Operation


Elongation


Compression


Transverse Deflection


Angular Deflection

Nr.	Component	Material – outside/inside
1	Body	Neoprene / Neoprene EPDM / EPDM Neoprene / Nitrile Neoprene / Hypalone (CSM**) Neoprene / Viton
2	Reinforced	multi-layer textile
3	Wire	hard steel wire
4	Flange	forged steel, galvanized stainless steel various drilling available

* An inner ring is necessary for vacuum under 660 mm Hg. Information needed for offer/order.
** Chlorine-Sulphate-Polyethylene

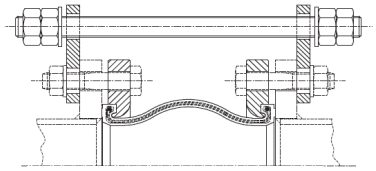


Figure 3: Tie Rods

Pressure Reduction at higher Temperatures

Temperature T [°C]	80	85	90	95	100	105
Pressure [bar]	16	14,7	13,3	12,0	10,7	9,6

Technical Data

DN [mm]	DN [inch]	L [mm]	Axial Compression [mm]	Axial Elongation [mm]	Transverse Deflection [mm]	Angular Deflection	Max. Pressure at 80°C [bar]	Max. Temperature [°C]	Vacuum Rating [bar_{abs}]	Weight [kg]
25	1	152	13	9	13	15°	16	105	0,88	2,2
32	$1^1/_4$	152	13	9	13	15°	16	105	0,88	3,2
40	$1^1/_2$	152	13	9	13	15°	16	105	0,88	3,8
50	2	152	13	9	13	15°	16	105	0,88	5,1
65	$2^1/_2$	152	13	9	13	15°	16	105	0,88	5,9
80	3	152	13	9	13	15°	16	105	0,88	7,0
100	4	152	19	13	13	15°	16	105	0,88	7,6
125	5	152	19	13	13	15°	16	105	0,88	10,0
150	6	152	19	13	13	15°	16	105	0,88	12,4
200	8	152	19	13	13	15°	16	105	0,88	18,3
250	10	203	25	16	19	15°	16	105	0,88	24,2
300	12	203	25	16	19	15°	16	105	0,88	30,0
350	14	203	25	16	19	15°	10	105	0,88	53,0
400	16	203	25	16	19	15°	9	105	0,88	61,5
450	18	203	25	16	19	15°	9	105	0,88	66,8
500	20	203	25	16	19	15°	9	105	0,88	72,0
550	22“	254	22	16	19	15°	8	105	0,88	96,8
600	24	254	25	16	19	15°	8	105	0,88	121,5
700	28	254	25	16	19	10°	8	105	0,88	-