



Szalai és Társa Kft.
1992

KOMP16-EPDM



EXPANSION JOINTS



APPLICATION :

Heating, air conditioning, cooling overheated water, water systems, pump stations, connection of compressors, industrial & shipd installations.

GENERAL CHARACTERISTICS :

Designed to absorb dilatation movements, vibrations in fluid conduction pipelines.

Range from ND32 up to ND600 .

Single wave construction with low load loss.

Absorbs sound and isolates vibrations from any direction.

Not need assembly joints.

Reduce "water-hammer" effect..

Eliminate the electrolytical corrosion risk when pipelines of different materials are joined.

STANDARDS :

Mounting with flanges : EN 1092-1 PN10 / PN16.

Pressure Test : EN 12266-1.

Body : 24 bar.

Directive 2014/68/EU

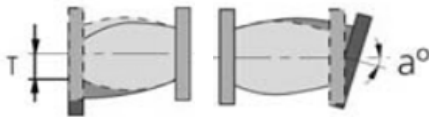
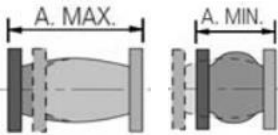
WORKING CONDITIONS :

Maximum Working Pressure : 16 bar(*).

(*): See correction chart according to temperature.

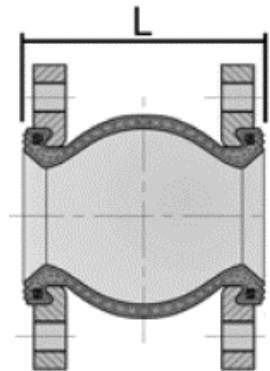
Breaking Pressure : 60 bar.

Maximum Working Temperature : -10 °C / +105 °C.



MATERIALS:

No.	Part	Material	Options
1	Body	EDPM	NBR
2	Reinforcement	Nylon Card	
3	Barce	Steel	
4	Flanges	Carbon Steel	S Steel 304 & 316

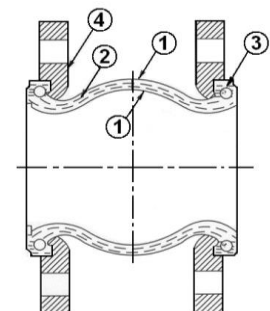


TEMPERATURE / MAXIMUM RECOMENDED PRESSURE RATE (EPDM):

DN	°C	80	85	90	95	100	105
32-300	bar	15	12	10	7	4	2
350-600		10	8	7	5	2	1

DIMENSIONS :

DN	Installation Lenght L			A		Max. movements from mounting position				Weight
	Standard	Min.	Max.	Min.	Max.	Compansion	Expansion	Lateral	Angular	
32	95	89	97	87	101	8	4	8	15	2,25
40	95	89	97	87	101	8	6	8	15	2,45
50	105	99	107	93	111	12	6	8	15	3,85
65	115	107	118	103	121	12	6	10	15	5,6
80	130	122	133	112	140	18	10	10	15	6,4
100	135	122	140	117	145	18	10	12	15	7,8
125	170	156	175	152	180	18	10	12	15	10
150	180	167	185	155	194	25	14	12	15	13,2
200	208	186	212	180	219	25	14	22	15	18,8
250	240	221	247	215	254	25	14	22	15	26,6
300	260	241	267	235	276	25	16	22	15	37,7
350	265	246	273	240	281	25	16	22	15	54,5
400	265	246	273	240	281	25	16	22	15	76,4
450	265	246	273	240	281	25	16	22	15	76,6
500	265	246	273	240	281	25	16	22	15	77,3
600	265	246	273	240	281	25	16	22	15	79,5



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EXPANSION JOINTS



CONTROL TIE RODS

APPLICATION :

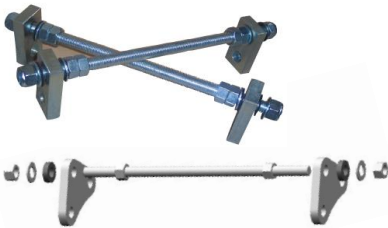
Control rods are designed to minimize possible damage on the expansion joint caused by an excessive motion, an abnormal temperature fluctuation, pressure surges, guiding of piping or failure of anchoring. Where these situations may occur, control units must be used to limit the amount and direction of movement.

GENERAL CHARACTERISTICS :

Range from ND40 up to ND600 .

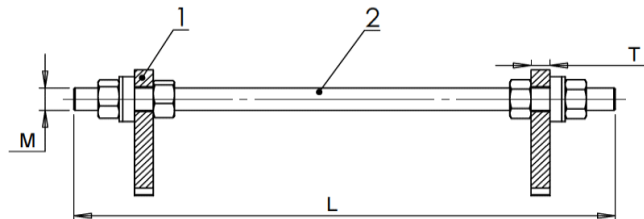
A control unit is a system of two or more control rods assemblies placed across an expansion joint from flange to flange to minimize possible damage to the expansion joint caused by excessive motion on the pipeline. The control rods assemblies are set at the maximum allowable expansion and/or contraction of the joint and will absorb the static pressure thrust developed at the expansion joint.

Control units only work for axial movements. They are normally used for big sizes and relative high pressures where it is difficult or costly to get fixed points that absorb the total forces encountered.



MATERIALS:

No.	Part	Material
1.	Control rod	Galvanized Steel
2.	Gusset plate	Galvanized Steel



NEED FOR CONTROL TIE RODS BASED ON WORKING PRESSURE:

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
bar	15	15	15	15	10	10	10	7	7	7	7	5	5	5	5

DIMENSIONS :

DN	T		L		M		No. Control rod sets		Weight	
	10	16	10	16	10	16	10	16	10	16
NP										
40		10		240		16		2		2,4
50		10		250		16		2		3
65		10		260		16		2		2,7
80		10		280		16		2		2,8
100		10		290		16		2		2,9
125		10		325		16		2		3,1
150		12		340		16		2		4,5
200	12	16	370	400	20	20	3	3	6,2	6,9
250	18	25	440	470	20	24	3	3	8,3	13,8
300	18	25	460	490	20	24	4	3	9,5	16
350	20	30	460	490	20	30	4	4	13,2	21,4
400	20	30	470	510	20	30	4	4	15,6	27,3
450	20	30	480	530	20	30	4	5	25,4	34,5
500	20	30	480	530	20	33	4	5	26,9	45,9
600	20	30	495	550	24	33	4	5	31,7	74,3

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