

	Projekt :	ASU No. 9, Kosice	Seite 57 von 198
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Expansion joint analysis

Manufacturer: Hydra_2004
Type: LRK 10.0600.207.0
Load case: Extreme value 9. 5.2005 12:28: 3

Inputs

Line:	22	End node:	519
Start node:	513	Bellow 2	517
Bellow 1	515		
Nom. diameter:	DN600.0		
Design temperature:	200.0 °C		
Design pressure:	6.00 bar	ass. pressure cold:	7.79 bar
Number of load cycles:	1000		

Reducing coefficients

Temperature:	0.9000
Pressure:	1.0331
Load cycles:	1.0000
Resulting coefficient:	0.9298

Movement

	Lateral	Torsion
allowable:	96.23 mm	0.04 grd
calculated:	36.19 mm	0.01 grd
Utilization:	37.60%	17.69%

Torsional moment

allowable:	66.016 kNm
calculated:	9.922 kNm
Utilization:	15.03%

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Manufacturer: Hydra_2004
Type: LRK 10.0700.208.0
Load case: Extreme value 9. 5.2005 12:28: 3

Inputs

Line:	18	End node:	505
Start node:	226	Bellow 2:	503
Bellow 1:	501		
Nom. diameter:	DN700.2		
Design temperature:	120.0 °C		
Design pressure:	6.00 bar	ass. pressure cold:	7.19 bar
Number of load cycles:	1000		

Reducing coefficients

Temperature:	0.9800
Pressure:	1.0421
Load cycles:	1.0000
Resulting coefficient:	1.0212

Movement

allowable:	Lateral	106.21 mm
calculated:		16.45 mm
Utilization:		15.49%

Torsion

allowable:	0.04 grd
calculated:	0.01 grd
Utilization:	20.37%

Torsional moment

allowable:	132.762 kNm
calculated:	22.372 kNm
Utilization:	16.85%

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Manufacturer: Hydra_2004
Type: LRK 10.0700.208.0
Load case: Extreme value 9. 5.2005 12:28: 3

Inputs

Line:	21		
Start node:	246	End node:	511
Bellow 1	507	Bellow 2	509
Nom. diameter:	DN700.2		
Design temperature:	120.0 °C		
Design pressure:	6.00 bar	ass. pressure cold:	7.19 bar
Number of load cycles:	1000		

Reducing coefficients

Temperature:	0.9800
Pressure:	1.0421
Load cycles:	1.0000
Resulting coefficient:	1.0212

Movement

	Lateral	Torsion
allowable:	106.21 mm	0.04 grd
calculated:	17.20 mm	0.01 grd
Utilization:	16.19%	19.72%

Torsional moment

allowable:	132.762 kNm
calculated:	21.649 kNm
Utilization:	16.31%