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AutoPIPE 6.20 MODEL PAGE 2

**
** AUTOPIPE SYSTEM INFORMATION **
**

SYSTEM NAME : 79319915_komplett

PROJECT ID : ASU KOSICE

DESCRIPTION :

PREPARED BY : _____
WEGSTEIN

CHECKED BY : _____
FRICKHOEFER

PIPING CODE : B31.3
VERTICAL AXIS : Z
AMBIENT TEMPERATURE : 20.0 deg C
COMPONENT LIBRARY : AUTODIN
MATERIAL LIBRARY : AUTOB313
MODEL REVISION NUMBER : 0

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C O M P O N E N T D A T A L I S T I N G

*** SEGMENT A , LINE # 79319915

From A00 to A01, DY= -305.00 mm

Run

PIPE DATA:

Pipe Id= 200MX6.4, Material= AL, Poisson= 0.300, Nom Size= 200 mm,
OD= 219.10 mm, Sch= NS, Wall Thk= 6.400 mm, Mill= 0.800 mm, Cor= 0 mm,
Pipe Density= 2707.12 kg/m3, Pipe Unit Wgt= 113.53 N/m, Insul Thk= 0 mm,
Lining Thk= 0 mm, Long Weld factor= 1.00, Circ Weld factor= 1.00,
Long Modulus= 0.06899 x10⁶ N/m, Hoop Modulus= 0.06899 x10⁶ N/m,
Shear Modulus= 0.02653 x10⁶ N/m, Sc= 103.4 N/mm2, Syc= 0 N/mm2

OPERATING DATA:

P1= 0 N/mm2, T1= -196.00 deg C, Exp1= -3.84587 mm/m,
E1= 0.07646 x10⁶ N/m, Sh1= 71.00 N/mm2

POINT DATA:

A00, Coordinates, X= 0.00 mm, Y= 0.00 mm, Z= 0.00 mm

From A01 to A02, DX= 308.05 mm

Bend

COMPONENT DATA (Bend, TIP= A01, Near= A01 N, Far= A01 F):

Elbow, Radius= 304.99 mm, Bend angle= 90.00 deg, End flanges= 0,
Flex= 9.561, SIFI= 2.90, SIFO= 2.42

PIPE DATA (A01 F to A02):

Pipe Id= 200MX6.0, Nom Size= 200 mm, Wall Thk= 6.000 mm, Mill= 0.750 mm

POINT DATA:

A01, Coordinates, X= 0.00 mm, Y= -305.00 mm, Z= 0.00 mm
A01 N, Coordinates, X= 0.00 mm, Y= -0.01 mm, Z= 0.00 mm
A01 F, Coordinates, X= 304.99 mm, Y= -305.00 mm, Z= 0.00 mm

SUPPORT DATA:

A01 N, Anchor, KTX= Rigid, KTY= Rigid, KTZ= Rigid, KRX= Rigid,
KRY= Rigid, KRZ= Rigid

From A02 to A03, DX= 148.95 mm

Redu

COMPONENT DATA (Reducer):

Length= 148.95 mm, SIF= 1.00

POINT DATA:

A02, Coordinates, X= 308.05 mm, Y= -305.00 mm, Z= 0.00 mm

From A03 to A04, DX= 1506.63 mm

Run

PIPE DATA:

Pipe Id= 150X7.1, Nom Size= 150 mm, OD= 168.30 mm, Sch= 7.1,
Wall Thk= 7.100 mm, Mill= 0.887 mm

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C O M P O N E N T D A T A L I S T I N G

POINT DATA:

A03, Coordinates, X= 457.00 mm, Y= -305.00 mm, Z= 0.00 mm

From A04 to A05, DY= 845.00 mm, DZ= 360.11 mm, L= 918.53 mm Bend

COMPONENT DATA (Bend, TIP= A04, Near= A04 N, Far= A04 F):

Elbow, Radius= 228.99 mm, Bend angle= 90.00 deg, End flanges= 0,
Flex= 6.593, SIFI= 2.27, SIFO= 1.89

POINT DATA:

A04, Coordinates, X= 1963.63 mm, Y= -305.00 mm, Z= 0.00 mm
A04 N, Coordinates, X= 1734.64 mm, Y= -305.00 mm, Z= 0.00 mm
A04 F, Coordinates, X= 1963.63 mm, Y= -94.34 mm, Z= 89.78 mm

From A05 to A06, DX= 4611.37 mm Bend

COMPONENT DATA (Bend, TIP= A05, Near= A05 N, Far= A05 F):

Elbow, Radius= 228.99 mm, Bend angle= 90.00 deg, End flanges= 0,
Flex= 6.593, SIFI= 2.27, SIFO= 1.89

POINT DATA:

A05, Coordinates, X= 1963.63 mm, Y= 540.00 mm, Z= 360.11 mm
A05 N, Coordinates, X= 1963.63 mm, Y= 329.34 mm, Z= 270.33 mm
A05 F, Coordinates, X= 2192.62 mm, Y= 540.00 mm, Z= 360.11 mm

*** SEGMENT B , LINE #

From A06 to B01, DX= 500.00 mm Junc

PIPE DATA:

Pipe Id= 150MX7.1, Nom Size= 150 mm

POINT DATA:

A06, Coordinates, X= 6575.00 mm, Y= 540.00 mm, Z= 360.11 mm

From B01 to B02, DY= 371.80 mm, DZ= 1376.55 mm, L= 1425.88 mm Bend

COMPONENT DATA (Bend, TIP= B01, Near= B01 N, Far= B01 F):

Elbow, Radius= 228.99 mm, Bend angle= 90.00 deg, End flanges= 0,
Flex= 6.593, SIFI= 2.27, SIFO= 1.89

POINT DATA:

B01, Coordinates, X= 7075.00 mm, Y= 540.00 mm, Z= 360.11 mm
B01 N, Coordinates, X= 6846.01 mm, Y= 540.00 mm, Z= 360.11 mm
B01 F, Coordinates, X= 7075.00 mm, Y= 599.71 mm, Z= 581.18 mm

From B02 to B03, DX= 1375.48 mm Bend

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C O M P O N E N T D A T A L I S T I N G

COMPONENT DATA (Bend, TIP= B02, Near= B02 N, Far= B02 F):
Elbow, Radius= 228.99 mm, Bend angle= 90.00 deg, End flanges= 0,
Flex= 6.593, SIFI= 2.27, SIFO= 1.89

POINT DATA:

B02, Coordinates, X= 7075.00 mm, Y= 911.80 mm, Z= 1736.66 mm
B02 N, Coordinates, X= 7075.00 mm, Y= 852.09 mm, Z= 1515.59 mm
B02 F, Coordinates, X= 7303.99 mm, Y= 911.80 mm, Z= 1736.66 mm

From B03 to B04, DY= -482.96 mm, DZ= -129.41 mm, L= 500.00 mm Bend

COMPONENT DATA (Bend, TIP= B03, Near= B03 N, Far= B03 F):
Elbow, Radius= 228.99 mm, Bend angle= 90.00 deg, End flanges= 0,
Flex= 6.593, SIFI= 2.27, SIFO= 1.89

POINT DATA:

B03, Coordinates, X= 8450.48 mm, Y= 911.80 mm, Z= 1736.66 mm
B03 N, Coordinates, X= 8221.49 mm, Y= 911.80 mm, Z= 1736.66 mm
B03 F, Coordinates, X= 8450.48 mm, Y= 690.61 mm, Z= 1677.39 mm
B04, Coordinates, X= 8450.48 mm, Y= 428.84 mm, Z= 1607.25 mm

SUPPORT DATA:

B04, Anchor, KTX= Rigid, KTY= Rigid, KTZ= Rigid, KRX= Rigid, KRY= Rigid,
KRZ= Rigid

Number of points in the system: 24

Weight of Empty Pipes + Weight of Contents = Total Weight of System
107.8 kg + 0.0 kg = 107.8 kg

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C O O R D I N A T E S D A T A L I S T I N G

POINT -----COORDINATE (mm) -----
NAME X Y Z

*** SEGMENT A , LINE # 79319915
A00 0.00 0.00 0.00
A01 N 0.00 -0.01 0.00
A01 0.00 -305.00 0.00
A01 F 304.99 -305.00 0.00
A02 308.05 -305.00 0.00

A03 457.00 -305.00 0.00
A04 N 1734.64 -305.00 0.00
A04 1963.63 -305.00 0.00
A04 F 1963.63 -94.34 89.78
A05 N 1963.63 329.34 270.33
A05 1963.63 540.00 360.11
A05 F 2192.62 540.00 360.11
A06 6575.00 540.00 360.11

*** SEGMENT B , LINE #
A06 6575.00 540.00 360.11
B01 N 6846.01 540.00 360.11
B01 7075.00 540.00 360.11
B01 F 7075.00 599.71 581.18
B02 N 7075.00 852.09 1515.59
B02 7075.00 911.80 1736.66
B02 F 7303.99 911.80 1736.66
B03 N 8221.49 911.80 1736.66
B03 8450.48 911.80 1736.66
B03 F 8450.48 690.61 1677.39
B04 8450.48 428.84 1607.25

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P I P E D A T A L I S T I N G

Pipe ID/ Material	Nom/ O.D. Sch mm	-----Thickness(mm)----- W.Th. Corr Mill	Insu	Ling	Spec Grav	Weight(N/m) Pipe	Other	Total	ZL/ ZC
200MX6.4 AL	200 219.10 NS	6.400 0 0.80	0	0	0	114	0	114	1.00 1.00
200MX6.0 AL	200 219.10 NS	6.000 0 0.75	0	0	0	107	0	107	1.00 1.00
150MX6.0 AL	150 168.30 NS	6.000 0 0.75	0	0	0	81.22	0	81.22	1.00 1.00
150X7.1 AL	150 168.30 7.1	7.100 0 0.89	0	0	0	95.46	0	95.46	1.00 1.00
150MX7.1 AL	150 168.30 7.1	7.100 0 0.89	0	0	0	95.46	0	95.46	1.00 1.00

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M A T E R I A L D A T A L I S T I N G

Material Name	Pipe ID	Density kg/m3	Pois. Ratio	Temper. deg C	Modulus x10 ⁶ N/ Axial Hoop Shear			Expans. mm/m
AL	200MX6.4	2707.1	0.30	20.0 -196.0	0.06899 0.07646	0.06899	0.02653	-3.8459
AL	200MX6.0	2707.1	0.30	20.0 -196.0	0.06899 0.07646	0.06899	0.02653	-3.8459
AL	150X7.1	2707.1	0.30	20.0 -196.0	0.06899 0.07646	0.06899	0.02653	-3.8459
AL	150MX7.1	2707.1	0.30	20.0 -196.0	0.06899 0.07646	0.06899	0.02653	-3.8459

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M A T E R I A L A L L O W A B L E D A T A L I S T I N G

Material Name	Pipe ID	Temper. deg C	Allow. N/mm2	Yield N/mm2
AL	200MX6.4	20.0 -196.0	103.42 71.00	0.00
AL	200MX6.0	20.0 -196.0	103.42 71.00	0.00
AL	150X7.1	20.0 -196.0	103.42 71.00	0.00
AL	150MX7.1	20.0 -196.0	103.42 71.00	0.00

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TEMPERATURE AND PRESSURE DATA

	-----C A S E 1-----			-----C A S E 2-----			-----C A S E 3-----		
POINT	PRESS.	TEMPER	EXPAN.	PRESS.	TEMPER	EXPAN.	PRESS.	TEMPER	EXPAN.
NAME	N/mm2	deg C	mm/m	N/mm2	deg C	mm/m	N/mm2	deg C	mm/m

*** SEGMENT A , LINE # 79319915

A00	0	-196	-3.846
A06	0	-196	-3.846

*** SEGMENT B , LINE #

A06	0	-196	-3.846
B04	0	-196	-3.846

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H O T M O D U L U S (x10⁶ N/)

POINT

NAME	CASE 1	CASE 2	CASE 3
------	--------	--------	--------

*** SEGMENT A , LINE # 79319915

A00 0.07646

A06 0.07646

*** SEGMENT B , LINE #

A06 0.07646

B04 0.07646

* Non-standard material

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	H O T			A L L O W A B L E S (N/mm2)					
	-----C A S E 1-----			-----C A S E 2-----			-----C A S E 3-----		
POINT	NOT	NOT		NOT	NOT		NOT	NOT	
NAME	ALLOW	USED	USED	ALLOW	USED	USED	ALLOW	USED	

*** SEGMENT A , LINE # 79319915

A00 71.00*

A06 71.00*

*** SEGMENT B , LINE #

A06 71.00*

B04 71.00*

< User-defined code allowable
* Non-code material

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THERMAL ANCHOR MOVEMENTS AND DISPLACEMENTS

POINT NAME	LOAD CASE	DX (mm)	DY (mm)	DZ (mm)	RX (deg)	RY (deg)	RZ (deg)
A01 N	Thermal 1	0.00	5.70	-8.70	0.000	0.000	0.000
B04	Thermal 1	0.00	-3.40	27.50	0.000	0.000	0.000

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DISPLACEMENTS

Point	Load	TRANSLATIONS (mm)			ROTATIONS (deg)		
name	combination	X	Y	Z	X	Y	Z
*** Segment A begin ***		Line # 79319915					
A00	T1	0.000	5.700	-8.700	0.000	0.000	0.000
A01 N	T1	0.000	5.700	-8.700	0.000	0.000	0.000
A01 F	T1	-1.115	6.758	-8.054	-0.072	-0.206	-0.097
A02	T1	-1.126	6.753	-8.043	-0.072	-0.207	-0.097
A03	T1	-1.695	6.488	-7.479	-0.065	-0.223	-0.109
A04 N	T1	-6.569	1.884	-1.053	0.025	-0.317	-0.324
A04 F	T1	-5.645	-1.059	0.172	0.129	-0.283	-0.732
A05 N	T1	-1.031	-3.114	0.483	0.137	-0.323	-0.733
A05 F	T1	-0.376	-5.959	2.573	0.151	-0.590	-0.266
A06	T1	-17.095	-5.532	42.064	0.023	-0.059	0.066
*** Segment A end ***		Line # 79319915					
*** Segment B begin ***		Line #					
A06	T1	-17.095	-5.532	42.064	0.023	-0.059	0.066
B01 N	T1	-18.129	-5.261	42.099	0.015	0.049	0.045
B01 F	T1	-16.366	-5.570	39.628	-0.024	0.966	-0.157
B02 N	T1	1.473	-6.093	35.921	-0.024	1.033	-0.150
B02 F	T1	3.938	-6.455	32.389	-0.007	0.428	0.022
B03 N	T1	0.437	-5.594	27.339	0.021	0.223	0.074
B03 F	T1	-0.155	-4.396	27.183	-0.016	0.035	0.051
B04	T1	0.000	-3.400	27.500	0.000	0.000	0.000
*** Segment B end ***		Line #					

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R E S T R A I N T R E A C T I O N S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
A01 N	Anchor T1	7631	918	1671	7866	255	-2868	969	3038
B04	Anchor T1	-7631	-918	-1671	7866	-1013	1011	3515	3795

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
*** Segment A begin *** Line # 79319915									
A00	T1	0	0	0	0	0	0	0	0
A01 N-	T1	0	0	0	0	0	0	0	0
A01 N+	T1	-7631	-918	-1671	7866	-255	2868	-969	3038
A01 F	T1	-7631	-918	-1671	7866	-764	2358	1638	2972
A02	T1	-7631	-918	-1671	7866	-764	2353	1641	2969
A03	T1	-7631	-918	-1671	7866	-764	2104	1778	2859
A04 N	T1	-7631	-918	-1671	7866	-764	-31	2951	3048
A04 F	T1	-7631	-918	-1671	7866	-495	271	1553	1653
A05 N	T1	-7631	-918	-1671	7866	48	1649	-1680	2355
A05 F	T1	-7631	-918	-1671	7866	317	1952	-3078	3658
A06	T1	-7631	-918	-1671	7866	317	-5372	945	5464
*** Segment A end *** Line # 79319915									
*** Segment B begin *** Line #									
A06	T1	-7631	-918	-1671	7866	317	-5372	945	5464
B01 N	T1	-7631	-918	-1671	7866	317	-5825	1194	5954
B01 F	T1	-7631	-918	-1671	7866	214	-4520	948	4624
B02 N	T1	-7631	-918	-1671	7866	-222	2611	-978	2796
B02 F	T1	-7631	-918	-1671	7866	-325	3915	-1223	4114
B03 N	T1	-7631	-918	-1671	7866	-325	2382	-381	2434
B03 F	T1	-7631	-918	-1671	7866	-640	1547	1517	2259
B04	T1	-7631	-918	-1671	7866	-1013	1011	3515	3795
*** Segment B end *** Line #									

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ASME B31.3b (2001) CODE COMPLIANCE									
			(Moments in Nm)			(Stress in N/mm2)			
Point	Load	In-Pl.	Out-Pl.	Torsion	S.I.F	Eq. Load	Code	Code	
name	combination	Moment	Moment	Moment	In Out	no. type	Stress	Allow.	
*** Segment A begin *** Line # 79319915									
A00	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	0	0	0	1.00 1.00	(17) DISP	0	147	
A01 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	0	0	0	1.00 1.00	(17) DISP	0	147	
A01 N+	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.90 2.42	(18) SUST	0	71	
	Cold to T1	969	255	2868	2.90 2.42	(17) DISP	18	147	
A01 F-	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.90 2.42	(18) SUST	0	71	
	Cold to T1	1638	2358	764	2.90 2.42	(17) DISP	34	147	
A01 F+	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	2358	1638	764	1.00 1.00	(17) DISP	14	147	
A02	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	2353	1641	764	1.00 1.00	(17) DISP	14	147	
A03	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	2104	1778	764	1.00 1.00	(17) DISP	21	147	
A04 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	31	2951	764	1.00 1.00	(17) DISP	22	147	
A04 N+	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.27 1.89	(18) SUST	0	71	
	Cold to T1	2727	1128	764	2.27 1.89	(17) DISP	47	147	
A04 F-	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.27 1.89	(18) SUST	0	71	
	Cold to T1	1322	495	859	2.27 1.89	(17) DISP	23	147	
A04 F+	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	495	1322	859	1.00 1.00	(17) DISP	12	147	
A05 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	48	2192	859	1.00 1.00	(17) DISP	17	147	

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ASME B31.3b (2001) CODE COMPLIANCE										
			(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In	S.I.F Out	Eq. Load no. type	Code Stress	Code Allow.	
A05 N+	Max P						(3a) HOOP	0	71	
	Max P	0	0		2.27	1.89	(18) SUST	0	71	
	Cold to T1	2192	48	859	2.27	1.89	(17) DISP	36	147	
A05 F-	Max P						(3a) HOOP	0	71	
	Max P	0	0		2.27	1.89	(18) SUST	0	71	
	Cold to T1	3596	589	317	2.27	1.89	(17) DISP	59	147	
A05 F+	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	1952	3078	317	1.00	1.00	(17) DISP	26	147	
A06	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	5372	945	317	1.00	1.00	(17) DISP	39	147	
*** Segment A end *** Line # 79319915										
*** Segment B begin *** Line #										
A06	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	5372	945	317	1.00	1.00	(17) DISP	39	147	
B01 N-	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	5825	1194	317	1.00	1.00	(17) DISP	43	147	
B01 N+	Max P						(3a) HOOP	0	71	
	Max P	0	0		2.27	1.89	(18) SUST	0	71	
	Cold to T1	5935	366	317	2.27	1.89	(17) DISP	97	147	
B01 F-	Max P						(3a) HOOP	0	71	
	Max P	0	0		2.27	1.89	(18) SUST	0	71	
	Cold to T1	4611	214	263	2.27	1.89	(17) DISP	75	147	
B01 F+	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	214	4611	263	1.00	1.00	(17) DISP	33	147	
B02 N-	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	222	2775	263	1.00	1.00	(17) DISP	20	147	
B02 N+	Max P						(3a) HOOP	0	71	
	Max P	0	0		2.27	1.89	(18) SUST	0	71	
	Cold to T1	2775	222	263	2.27	1.89	(17) DISP	45	147	
B02 F-	Max P						(3a) HOOP	0	71	
	Max P	0	0		2.27	1.89	(18) SUST	0	71	
	Cold to T1	4098	160	325	2.27	1.89	(17) DISP	67	147	

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*** Segment B end *** Line #

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S Y S T E M S U M M A R Y

Maximum displacements (mm)

Maximum X :	-18.129	Point : B01 N	Load Comb.: T1
Maximum Y :	6.758	Point : A01 F	Load Comb.: T1
Maximum Z :	42.099	Point : B01 N	Load Comb.: T1
Max. total:	46.138	Point : B01 N	Load Comb.: T1

Maximum rotations (deg)

Maximum X :	0.151	Point : A05 F	Load Comb.: T1
Maximum Y :	1.033	Point : B02 N	Load Comb.: T1
Maximum Z :	-0.733	Point : A05 N	Load Comb.: T1
Max. total:	1.044	Point : B02 N	Load Comb.: T1

Maximum restraint forces (N)

Maximum X :	7631	Point : A01 N	Load Comb.: T1
Maximum Y :	-918	Point : B04	Load Comb.: T1
Maximum Z :	1671	Point : A01 N	Load Comb.: T1
Max. total:	7866	Point : A01 N	Load Comb.: T1

Maximum restraint moments (Nm)

Maximum X :	-1013	Point : B04	Load Comb.: T1
Maximum Y :	-2868	Point : A01 N	Load Comb.: T1
Maximum Z :	3515	Point : B04	Load Comb.: T1
Max. total:	3795	Point : B04	Load Comb.: T1

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S Y S T E M S U M M A R Y

Maximum pipe forces (N)

Maximum X :	-7631	Point : A05 N	Load Comb.: T1
Maximum Y :	-918	Point : A01 N	Load Comb.: T1
Maximum Z :	-1671	Point : A01 N	Load Comb.: T1
Max. total:	7866	Point : A05 N	Load Comb.: T1

Maximum pipe moments (Nm)

Maximum X :	-1013	Point : B04	Load Comb.: T1
Maximum Y :	-5825	Point : B01 N	Load Comb.: T1
Maximum Z :	3515	Point : B04	Load Comb.: T1
Max. total:	5954	Point : B01 N	Load Comb.: T1

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REBIS

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S Y S T E M S U M M A R Y

Maximum displacement stress

Point	:	B01 N
Stress	N/mm2	: 97
Allowable	N/mm2	: 147
Ratio	:	0.66
Load combination	:	Cold to T1

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AutoPIPE 6.20 RESULT PAGE 10

S Y S T E M S U M M A R Y

Maximum displacement stress ratio

Point : B01 N
Stress N/mm2 : 97
Allowable N/mm2 : 147
Ratio : 0.66
Load combination : Cold to T1

* * * The system satisfies ASME B31.3 code requirements * * *
* * * for the selected options * * *