Process, Power and Marine Division

SP3D Piping Reference Data

10-Pipe Bend Manufacturing Rules











Permissible Pipe Bending Machine

А	В	С	D	E	F
! Back to li	ndex				
Head	SpecName	NominalPipingDiameterFrom	NominalPipingdiameterTo	NominalPipingDiameterUOM	PipeBendingMachineName
Start					
					1223
	2L1670	2	6	in	1
	NO .	25	150	mm	1
	N1	25	150	mm	2



Pipe Bending Machine Data

Head	PipeBendingMachineName PipeBendingMachineDescription	PipeBendingMachineType	HeightAboveShopFloor	MaximumPipeLength	MaximumNumberOfBends	MaximumBendAngle	MinimumBendAngle	MaximumCapacity	MaximumSectionModulus	MaximumCenterlineRadius
Juit										
	1 Schwarze Robitec CNC165HD 2 Pedrick Model E-20	4	68in	144in		180deg			10.2in^3 8.5in^3	



Pipe Bending Die Data

Head	PipeBendingMachineName	NominalPipingDiameter	NominalPipingDiameterUOM	PipeBendRadiusMultiplier	AbsolutePipeBendRadius	MinimumGripLength	MinimumPullLength	DefaultMinTanLenBetweenBends
						_	_	
Start								
	1	1	iń	2	2in		_	
	1	1 1.5		2 2	2in 3in			
	1 1	1 1.5 2	iń	2 2 2	2in			
	1 1 1	1 1.5 2	in in	2 2 2 2	2in 3in 4in			
	1 1 1 1 1 1	1 1.5 2	in in in in	2 2 2 2	2in 3in 4in			1
	1 1 1	1 1.5	in in in	2 2 2 2	2in 3in 4in			
	1 1 1 1 1 1 1 1	1 1.5 2 3 4 6	in in in in in	2 2 2 2 2 2 2	2in 3in 4in 6in 8in			
	1 1 1 1 1 1 1 1	1 1.5 2 3 4 6	in in in in in	2 2 2 2 2 2 2	2in 3in 4in 6in 8in	3.5in	18.625in	4.5in
	1 1 1 1 1 1 1 1	1 1.5 2 3 4 6	in in in in in in	2 2 2 2 2 2 2	2in 3in 4in 6in 8in	3.5in 5in	18.625in 17.125in	4.5in
	1 1 1 1 1 1 1 1 1 1	1 1.5 2 3 4 6	in in in in in in	2 2 2 2 2 2 2	2in 3in 4in 6in 8in	3.5in 5in 5.875in	18.625in 17.125in 13.25in	4.5in 6.125in 7in
	1 1 1 1 1 1 1 1	1 1.5 2	in in in in in in	2 2 2 2 2 2 2 3 3 3 3 3 3	2in 3in 4in	3.5in 5in	18.625in 17.125in	4.5in



Pipe Bending Min Tangent Length Data

Head	PipeBendingMachineName	PipeBendType	MinBendToBendTanLenOption	NominalPipingDiameter	NominalPipingDiameterUOM	PipeBendRadiusMultiplier	MinTanLenBetweenTurn12	Min Tan Len Between Turn 23	MinTanLenBetweenTurn34	MinTanLenBetweenTurn45	MinTanLenBetweenTurn56	MinTanLenBetweenTurn67	MinTanLenBetweenTurn78	OptionalMinimumGripLength	OptionalMinimumPullLength
Start															
-	1	4	1	1	in	3			**						
	1	4	1	1.5	in	3	-		100						
	- 4				2011	3									
	1	4	1	2	in	3									
	1	4	1 1		in in										
	1	4	1 1	2 3 4	in in in	3 3 3									
	1 1	4 4 4 4	1 1 1	2 3 4 6	in in in in	3 3 3									
	1 1 1	4	1 1 1 1 2	2 3 4 6	in in in in in	3 3 3 3 3								1.625in	1.625in
	1 1 1 1	4	1 1 1 1 2 2	2 3 4 6 1 1.5	in in in in in in	3 3 3 3 3 3								2.125in	2.125in
	1 1 1 1 1	4	1 1 1 1 2 2 2	2 3 4 6 1 1.5	in in in in in in	3 3 3 3 3 3								2.125in 2.25in	2.125in 2.25in
	1 1 1 1 1 1	4	1 1 1 1 2 2 2 2	2 3 4 6 1 1.5 2	in in in in in in in	3 3 3 3 3 3 3								2.125in 2.25in 3.125in	2.125in 2.25in 3.125in
	1 1 1 1 1	4	1 1 1 1 2 2 2	2 3 4 6 1 1.5	in in in in in in	3 3 3 3 3 3								2.125in 2.25in	2.125in 2.25in



Pipe Bending Configuration Data

Head Start	IsB endPlanar	NominalB endAngleFrom1	NominalBendAngleTo1	NonPlanarRotationAngleFrom2	NonPlanarRotationAngleTo2	NominalBendAngleFrom2	NominalBendAngleTo2	NonPlanarRotationAngleFrom3	NonPlanarRotationAngleTo3	NominalBendAngleFrom3	NominalBendAngleTo3	NonPlanarRotationAngleFrom4	NonPlanarRotationAngleTo4
	- 1	90deg	90deg		NAME OF TAXABLE PARTY.	S	and the same	8 8					
	- 1	90deg	90deg	180deg	180deg	90deg	90deg						
	- 1	0.1deg	44.9deg	111111									
	- 1	45deg	45deg										
	1		89.9deg										
	- 1		179.9deg			1.7	Mary Line						
	1	90deg	90deg	0deg -	0deg	0.1deg	89.9deg						
		45deg	45deg	180deg	180deg	45deg	45deg						
	1	45deg	45deg	180deg	180deg	135deg	135deg						
	- 1	225deg	225deg	180deg	180deg	45deg	45deg	1000	TAP ST				
	1	45deg	45deg	180deg	180deg	45deg	45deg	180deg	180deg	90deg	90deg		
	1	45deg	45deg	180deg	180deg	90deg	90deg	0deg	0deg	45deg	45deg		
	1	90deg	90deg	180deg	180deg	180deg	180deg	0deg	Odeg	90deg	90deg		
	1	45deg	45deg	180deg	180deg	270deg	270deg	0deg	0deg	45deg	45deg		
	1	135deg	135deg	180deg	180deg	270deg	270deg	0deg	0deg	135deg	135deg	400.1	400.1
	1	90deg	90deg	0deg	Odeg	90deg	90deg	Odeg	Odeg	45deg	45deg	180deg	180deg
	1	45deg	45deg	180deg	180deg	45deg	45deg	180deg	180deg	45deg	45deg	0deg	0deg
		90deg	90deg	180deg	180deg	90deg	90deg	180deg	180deg	90deg	90deg	Odeg	Odeg
	1	45deg	45deg	180deg	180deg	45deg	45deg	180deg	180deg	90deg	90deg	180deg	180deg
	1	90deg	90deg	0deg -	Odeg	45deg	45deg	180deg	180deg	45deg	45deg	180deg	180deg