

Ballestra		SKETCHES MATERIAL LIST	PROJ:	1E35	REV:	0	13/04/2010
PUMAS	13/04/2010 11.05.27		DOC:	1E35-65-018			

Ballestra		SULPHUREX GH/F		Size: In	Thk: mm	Temp: °C	Pres: BAR	Corr: mm
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Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
1522	1	0	In	3,38		mm	,00	0,20	m	216	Pipe ASME B36.19 PL Seamless ASTM A 312 TP 316		0,51		
1540	3	0	In	2,11		mm	,00	5,50	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316		25,34		
2864	1	0	In			mm	,00	1,00	NR	216	Valve Ball Full Port ST.46545/1 THRD-F NPT 800# Forged ASTM A 182 GR. F316 S 99		1,43		
6031	3	0	In			mm	,00	2,00	NR	216	Valve Ball Full Port ST.46588/2 LUG 150 LB RF (125÷250 AARH) Cast ASTM A 351 CF8 S 125	5385	28,57		
452	2+1/2	0	In			mm	,00	1,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized	5136	3,60		
453	3	0	In			mm	,00	5,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized	5137	20,50		
184	3	0	In	2,11		mm	,00	2,00	NR	216	45° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403 GR. WP316		0,82		
1836	3	2+1/2	In	2,11	2,11	mm	,00	1,00	NR	216	Reducer Concentric ASME B16.9 BE Wrought W ASTM A 403 GR. WP316		0,39		
1232	2+1/2	0	In	2,11		mm	,00	1,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR. WP316 Type A		0,32		
1233	3	0	In	2,11		mm	,00	5,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR. WP316 Type A		2,00		
5136	5/8	0	In			mm	100,00	4,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		0,92		
5137	5/8	0	In			mm	105,00	16,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		3,84		
716	2+1/2	0	In			mm	,00	1,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F				
717	3	0	In			mm	,00	6,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F				
5385	5/8	0	In			mm	45,00	32,00	NR	216	Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7 Galvanized		5,12		
M Erection												Total Kg:	93,36		

SX2	SLS - SECT. 77 - PRO	77001 - 0	SX1	1 / 1	TOTAL Kg:	93,36
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PISH\_77.P2A  
PT\_77.P2

Plant SX2 SLS - SECT. 77 - PRO  
Line 77001 - 0  
Dang. fluid type  
Area  
Zones

Piping Class 216  
Fluid  
Coating  
Sketch Sht 1 / 1

Welding specification SP.1406/2-SP.1408/3  
System  
De pres  
Isometric code

Op tem

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Ballestra		SKETCHES MATERIAL LIST	PROJ:	1E35	REV:	0	13/04/2010
PUMA5	13/04/2010 11.05.27		DOC:	1E35-65-018			

Ballestra		SULPHUREX GH/F		Size: In	Thk: mm	Temp: °C	Pres: BAR	Corr: mm
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Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
1506	1	0	In	3,38		mm	,00	0,20	m	226	Pipe ASME B36.19 PL Seamless ASTM A 312 TP 304		0,51		
1508	1+1/2	0	In	3,68		mm	,00	3,20	m	226	Pipe ASME B36.19 PL Seamless ASTM A 312 TP 304		13,22		
5455	2+1/2	0	In	5,16		mm	,00	0,20	m	226	Pipe ASME B36.19 PL Seamless ASTM A 312 TP 304		1,76		
5478	3	0	In	5,49		mm	,00	42,00	m	226	Pipe ASME B36.19 PL Seamless ASTM A 312 TP 304		483,93		
5417	1	0	In	3,38		mm	,00	1,00	NR	226	Flange Weld Neck ASME B16.5 900 LB LM (125÷250 AARH) Forged ASTM A 182 GR. F304	5156			
5447	2+1/2	0	In			mm	,00	1,00	NR	226	Flange Slip-On ASME B16.5 900 LB LM (125÷250 AARH) Forged ASTM A 182 GR. F304	5167			
5470	3	0	In			mm	,00	1,00	NR	226	Flange Slip-On ASME B16.5 900 LB LM (125÷250 AARH) Forged ASTM A 182 GR. F304	5158			
5476	3	0	In	5,49		mm	,00	2,00	NR	226	45° Elbow Long Radius ASME B16.9 BE Seamless ASTM A 403 GR. WP304		2,13		
289	1+1/2	0	In	3,68		mm	,00	2,00	NR	226	90° Elbow Long Radius ASME B16.9 BE Seamless ASTM A 403 GR. WP304		0,75		
5477	3	0	In	5,49		mm	,00	8,00	NR	226	90° Elbow Long Radius ASME B16.9 BE Seamless ASTM A 403 GR. WP304		16,58		
5488	3	2+1/2	In	5,49	5,16	mm	,00	1,00	NR	226	Reducer Concentric ASME B16.9 BE Seamless ASTM A 403 GR. WP304		1,01		
5156	7/8	0	In			mm	120,00	4,00	NR	226	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		2,36		
5158	7/8	0	In			mm	140,00	8,00	NR	226	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		5,12		
5167	1	0	In			mm	150,00	8,00	NR	226	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		14,48		
5412	1	0	In			mm	,00	1,00	NR	226	Gasket TA 50.5/31 900 LB LM-LF (125÷250 AARH) _ B4C FLAT				
5449	2+1/2	0	In			mm	,00	1,00	NR	226	Gasket TA 50.5/31 900 LB LM-LF (125÷250 AARH) _ B4C FLAT				
5472	3	0	In			mm	,00	1,00	NR	226	Gasket TA 50.5/31 900 LB LM-LF (125÷250 AARH) _ B4C FLAT				

PT\_77.4  
PSV\_77.3

Plant SX2 SLS - SECT. 77 - PRO  
Line 77002 - 0  
Dang. fluid type  
Area  
Zones

Piping Class 226  
Fluid  
Coating  
Sketch Sht 1 / 1

Welding specification SP.1406/2-SP.1408/2  
System  
De pres  
Isometric code  
Op tem

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Ballestra						SKETCHES MATERIAL LIST						PROJ: 1E35		REV: 0		13/04/2010								
PUMA5			13/04/2010 11.05.27									DOC: 1E35-65-018												
Ballestra						SULPHUREX GH/F						Size: In		Thk: mm		Temp: °C		Pres: BAR		Corr: mm				
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component					Gen. Bolt	Weight (Kg)	As.bly	Branch					
M Erection															Total Kg:		541,86							
SX2	SLS - SECT. 77 - PRO					77002 - 0					SX1					1 / 1					TOTAL Kg:		541,86	

PT_77.4	Plant SX2 SLS - SECT. 77 - PRO	Piping Class 226	Welding specification SP.1406/2-SP.1408/2
PSV_77.3	Line 77002 - 0	Fluid	System
	Dang. fluid type	Coating	De pres
	Area	Sketch Sht 1 / 1	Op tem
	Zones	Isometric code	Page 2

Ballestra								SKETCHES MATERIAL LIST								PROJ:		1E35		REV:		0		13/04/2010	
PUMA5				13/04/2010 11.05.28												DOC:		1E35-65-018							
Ballestra								SULPHUREX GH/F								Size: In		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch										
1540	3	0	In	2,11		mm	,00	30,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316		138,24												
453	3	0	In			mm	,00	1,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized	5137	4,10												
184	3	0	In	2,11		mm	,00	4,00	NR	216	45° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403 GR. WP316		1,64												
352	3	0	In	2,11		mm	,00	5,00	NR	216	90° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403 GR. WP316		3,98												
1233	3	0	In	2,11		mm	,00	1,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR. WP316 Type A		0,40												
5137	5/8	0	In			mm	105,00	4,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		0,96												
717	3	0	In			mm	,00	1,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F														
M Erection												Total Kg:		149,31											
SX2	SLS - SECT. 77 - PRO					77003 - 0					SX1	1 / 1					TOTAL Kg:		149,31						

	Plant	SX2 SLS - SECT. 77 - PRO	Piping Class	216	Welding specification	SP.1406/2-SP.1408/3
	Line	77003 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area		Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

Ballestra								SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5				13/04/2010 11.05.28											DOC:		1E35-65-018							
Ballestra								SULPHUREX GH/F							Size: In		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component							Gen. Bolt	Weight (Kg)		As.bly	Branch		
1433	1/2	0	In	2,77		mm	,00	3,00	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B								3,80					
M Erection																	Total Kg:		3,8					
SX2	SLS - SECT. 77 - PRO						77008 - 0				SX1				1 / 1				TOTAL Kg:		3,8			

	Plant	SX2 SLS - SECT. 77 - PRO	Piping Class	212	Welding specification	SP.1406/2-SP.1407/3
	Line	77008 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area		Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

Ballestra								SKETCHES MATERIAL LIST					PROJ:		1E35		REV:		0		13/04/2010	
PUMA5				13/04/2010 11.05.28									DOC:		1E35-65-018							
Ballestra								SULPHUREX GH/F					Size: In		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component					Gen. Bolt	Weight (Kg)		As.bly	Branch		
1438	2	0	In	3,91		mm	,00	3,00	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B						16,31					
327	2	0	In	3,91		mm	,00	3,00	NR	212	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB						1,99					
M Erection															Total Kg:		18,31					
SX2	SLS - SECT. 77 - PRO						77009 - 0				SX1		1 / 1				TOTAL Kg:		18,31			

	Plant	SX2 SLS - SECT. 77 - PRO	Piping Class	212	Welding specification	SP.1406/2-SP.1407/3
	Line	77009 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area		Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5			13/04/2010 11.05.28											DOC:		1E35-65-018							
Ballestra							SULPHUREX GH/F							Size: In		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch								
1453	3	0	In	3,18		mm	,00	18,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		121,00										
2845	3	0	In			mm	,00	1,00	NR	212	Valve Ball Full Port ST.46590/3 LUG 150 LB RF (125÷250 AARH)	5377	22,50										
											Forged ASTM A 105 S 127												
472	3	0	In			mm	,00	2,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5201	8,20										
											ASTM A 105												
297	3	0	In	3,18		mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		2,35										
5201	5/8	0	In			mm	95,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		0,92										
											ASTM A 193 B7//ASTM A 194 GR.2H												
698	3	0	In			mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B												
5377	5/8	0	In			mm	45,00	16,00	NR	212	Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7		2,56										
M Erection												Total Kg:		157,53									
SX2	SLS - SECT. 77 - PRO					77010 - 0					SX1	1 / 1		TOTAL Kg:		157,53							

	Plant	SX2 SLS - SECT. 77 - PRO	Piping Class	212	Welding specification	SP.1406/2-SP.1407/3
	Line	77010 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area		Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

Ballestra								SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5				13/04/2010 11.05.28											DOC:		1E35-65-018							
Ballestra								SULPHUREX GH/F							Size: In		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch									
1454	4	0	In	3,18		mm	,00	4,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		34,86											
298	4	0	In	3,18		mm	,00	3,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		6,20											
1651	4	3	In	3,18	3,18	mm	,00	1,00	NR	203	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		0,86											
M Erection													Total Kg:		41,92									
SX2	SLS - SECT. 77 - PRO						77019 - 0				SX1		1 / 1		TOTAL Kg:		41,92							

	Plant	SX2 SLS - SECT. 77 - PRO	Piping Class	203	Welding specification	SP.1406/2-SP.1407/3
	Line	77019 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area		Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					



Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5			13/04/2010 11.05.28											DOC:		1E35-65-018							
Ballestra							SULPHUREX GH/F							Size: In		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component					Gen. Bolt	Weight (Kg)		As.bly	Branch			
1453	3	0	In	3,18		mm	,00	58,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B						389,88						
5023	3	0	In			mm	,00	1,00	NR	203	Valve Butterfly With Gasket ST.46373/5 WAFER 150 LB RF (125÷250 AARH) Cast DUCTILE IRON B 74					5209	3,50						
472	3	0	In			mm	,00	5,00	NR	203	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105					5201	20,50						
129	3	0	In	3,18		mm	,00	2,00	NR	203	45° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB						1,21						
297	3	0	In	3,18		mm	,00	4,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB						4,71						
5201	5/8	0	In			mm	95,00	12,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/ASTM A 194 GR.2H						2,76						
5209	5/8	0	In			mm	140,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/ASTM A 194 GR.2H						1,16						
666	3	0	In			mm	,00	3,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C												
M Erection															Total Kg:		423,71						
SX2	SLS - SECT. 77 - PRO					77020 - 0					SX1	1 / 1					TOTAL Kg:		423,71				

KV_77.8	Plant	SX2 SLS - SECT. 77 - PRO	Piping Class	203	Welding specification	SP.1406/2-SP.1407/3
	Line	77020 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area		Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

Ballestra								SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0	13/04/2010		
PUMA5				13/04/2010 11.05.28											DOC:		1E35-65-018							
Ballestra								SULPHUREX GH/F							Size: In		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch									
1452	2+1/2	0	In	3,18		mm	,00	16,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		87,60											
5022	2+1/2	0	In			mm	,00	1,00	NR	203	Valve Butterfly With Gasket ST.46373/5 WAFER 150 LB RF (125÷250 AARH) Cast DUCTILE IRON B 74	5208	3,00											
471	2+1/2	0	In			mm	,00	5,00	NR	203	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5200	18,00											
296	2+1/2	0	In	3,18		mm	,00	6,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		4,77											
5200	5/8	0	In			mm	90,00	12,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/ASTM A 194 GR.2H		2,64											
5208	5/8	0	In			mm	135,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/ASTM A 194 GR.2H		1,12											
665	2+1/2	0	In			mm	,00	3,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C													
M Erection												Total Kg:		117,13										
SX2	SLS - SECT. 77 - PRO					77021 - 0					SX1	1 / 1		TOTAL Kg:		117,13								

KV_77.9	Plant	SX2 SLS - SECT. 77 - PRO	Piping Class	203	Welding specification	SP.1406/2-SP.1407/3
	Line	77021 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area		Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

Ballestra								SKETCHES MATERIAL LIST							PROJ:	1E35		REV:	0	13/04/2010	
PUMA5			13/04/2010 11.05.28												DOC:	1E35-65-018					
Ballestra								SULPHUREX GH/F							Size: In	Thk: mm	Temp: °C	Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch						
1509	2	0	In	3,91		mm	,00	8,50	m	226	Pipe ASME B36.19 PL Seamless ASTM A 312 TP 304		47,16								
5443	2	0	In			mm	,00	1,00	NR	226	Valve Ball Full Port SB-ATI-VS120/0 LUG 900 LB LF (125÷250 AARH) Forged AISI 304 S 194	5384									
5439	2	0	In			mm	,00	2,00	NR	226	Flange Slip-On ASME B16.5 900 LB LM (125÷250 AARH) Forged ASTM A 182 GR. F304	5158									
5440	2	0	In			mm	,00	1,00	NR	226	Flange Slip-On ASME B16.5 900 LB LF (125÷250 AARH) Forged ASTM A 182 GR. F304	5158									
290	2	0	In	3,91		mm	,00	4,00	NR	226	90° Elbow Long Radius ASME B16.9 BE Seamless ASTM A 403 GR. WP304		2,71								
5158	7/8	0	In			mm	140,00	16,00	NR	226	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		10,24								
5441	2	0	In			mm	,00	3,00	NR	226	Gasket TA 50.5/31 900 LB LM-LF (125÷250 AARH) _ B4C FLAT										
5384	5/8	0	In			mm	40,00	16,00	NR	226	Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7 Galvanized		2,40								
M Erection												Total Kg:		62,51							
SX2	SLS - SECT. 77 - PRO					77035 - 0					SX1	1 / 1					TOTAL Kg:		62,51		

	Plant	SX2 SLS - SECT. 77 - PRO	Piping Class	226	Welding specification	SP.1406/2-SP.1408/2
	Line	77035 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area		Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					