Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.47			DOC:	1E35-65-1103		
	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
1500	3	0	In	5,49	mm	,00	11,00	m	202	Pipe ASME B36.10 THRD-M NPT Seamless API 5L GR. B		124,22	
										Galvanized		•	
259	3	0	In		mm	,00	1,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		9,00	
	,	,		'						Galvanized		•	
2782	3	1	In		mm	,00	8,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		22,40	
		,				_			·	Galvanized		•	
4680	3	0	In		mm	,00	1,00	NR	202	Tee Straight TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		2,60	
	,	,		'						Galvanized		•	
976	1	1/2	In		mm	,00	5,00	NR	202	Reducing Insert M/F TA 50.7/2 THRD-M NPT x THRD-F 3000#		0,95	
		,							·	Forged ASTM A 105 Galvanized		,	
4574	3	0	In		mm	,00	1,00	NR	202	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized	1	3,00	
				•					I	M Erection	Total Kg:	162,17	
SZ1	PIPING	BOM SA	BIZ		01101	- 0			A	AREA A 1/1	TOTAL Kg:	162,17	

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	on
<b>Line</b> 01101 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Bal	lestra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.47			DOC:	1E35-65-1103		
	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
1500	3	0	In	5,49	mm	,00	23,00	m	202	Pipe ASME B36.10 THRD-M NPT Seamless API 5L GR. B Galvanized		259,72	
2782	3	1	In		mm	,00	3,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		8,40	
2784	3	1+1/2	In		mm	,00	1,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		2,80	
976	1	1/2	In		mm	,00	1,00	NR	202	Reducing Insert M/F TA 50.7/2 THRD-M NPT x THRD-F 3000# Forged ASTM A 105 Galvanized		0,19	
4439	3	2	In		mm	,00	1,00	NR	202	Coupling Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		0,16	
4574	3	0	In		mm	,00	1,00	NR	202	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		3,00	
	"		,		<u> </u>				N	M Erection	Total Kg:	274,27	
SZ1	PIPING	BOM SA	BIZ		01102	- 0			A A	AREA A 1/1	ΓΟΤΑL Kg:	274,27	

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	on
<b>Line</b> 01102 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestra	ì				SKETCHES MATERIAL LIST PROJ								REV: 0	16/	/11/2010
	PUMA	.5		16/11/2	010 10.1	1.47							DOC:	1E35	-65-1103		•	
			Balle	stra						SUI	PHUREX GH/F	Size: In Th	k: mm	Temp:	°C	Pres: BAR	C	orr: mm
Mark	S1	S2		T1	<b>T2</b>		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1495	1	0	In	3,38		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5L	GR. B			12,51		
2765	1	1/2	In			mm	,00	4,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT Galvanized	3000# Forge	l ASTM A	105		2,28		

Tee Straight TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105

Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized

			·	M Erection		Total Kg:	15,61
SZ1	PIPING BOM SABIZ	01103 - 0	A	AREA A	1 / 1	TOTAL Kg:	15,61

Galvanized

,00

,00

mm

mm

1,00 NR 202

1,00 NR 202

4675

4569

0

Plant SZ1 PIPING BOM SABIZ
Line 01103 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

0,57

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.47			DOC:	1E35-65-1103		
	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
1497	1+1/2	0	In	3,68		mm	,00	20,00	m	202	Pipe ASME B36.10 THRD-M NPT Seamless API 5L GR. B		80,98	
			'								Galvanized		•	'
256	1+1/2	0	In			mm	,00	4,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		9,60	
											Galvanized		•	
2770	1+1/2	1/2	In			mm	,00	8,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		10,24	
		-							_		Galvanized		l l	1
4571	1+1/2	0	In			mm	,00	1,00	NR	202	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		0,75	
				,	1		-			N	M Erection	Total Kg:	101,57	
SZ1	PIPING E	BOM SA	ABIZ			01104 -	. 0			A A	AREA A 1/1	TOTAL Kg:	101,57	

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
<b>Line</b> 01104 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PR	<b>)J:</b> 1	E35	REV:	0 1	16/11/2010
	PUMA	15		16/11/20	010 10.11	1.48							DO	C: 1	E35-65-1103			
	Ballestra								SU	LPHUREX GH/F	Size: In	Thk: mm	1	Гетр: °С	Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (K	g) As.bly	Branch
1495	1	0	In	3,38		mm	,00	27,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5	SL GR. I	1		67,5	6	
254	1	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A	105		2,2	0	
2765	1	1/2	In			mm	,00	19,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT Galvanized	3000# Forg	ged AST	M A 1	05	10,8	3	

M Erection

AREA A

Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized

1 / 1

1,00 NR 202

A

01105 - 0

4569

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	1
Line 01105 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

0,25 **80,84** 

80,84

Total Kg:

TOTAL Kg:

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.48		DOC:	1E35-65-1103		
	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
1498	2	0	In	3,91	mm	,00	24,00	m	202	Pipe ASME B36.10 THRD-M NPT Seamless API 5L GR. B		130,49	
						_				Galvanized			
257	2	0	In		mm	,00	1,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		3,30	
						-		-		Galvanized			
2774	2	3/4	In		mm	,00	18,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		32,40	
	·									Galvanized		<u> </u>	
974	3/4	1/2	In		mm	,00	18,00	NR	202	Reducing Insert M/F TA 50.7/2 THRD-M NPT x THRD-F 3000#		1,98	
										Forged ASTM A 105 Galvanized		·	
4572	2	0	In		mm	,00	1,00	NR	202	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		1,60	
	·	·	•						l	M Erection	Total Kg:	169,77	
SZ1	PIPING	BOM SA	BIZ		01106	- 0			A A	AREA A 1/1 7	TOTAL Kg:	169,77	

Plant SZ1 PIPING BOM SABIZ
Line 01106 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Pipin

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.48		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temp: °C	Pres: BAR	Corr: mm
	m. m.					

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
1498	2	0	In	3,91	mm	,00	14,00	m	202	Pipe ASME B36.10 THRD-M NPT Seamless API 5L GR. B		76,12		
										Galvanized		•		
257	2	0	In		mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		6,60		
	1	1				•		-		Galvanized	,			
4678	2	0	In		mm	,00	3,00	NR	202	Tee Straight TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		5,40		
	1	1				•				Galvanized	'			
4572	2	0	In		mm	,00	1,00	NR	202	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		1,60		
	•	"			,				N	M Erection	Total Kg:	89,72		
SZ1	PIPING	BOM SA	BIZ		01108	3 - 0			A A	AREA A 1/1	TOTAL Kg:	89,72		

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
Line 01108 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0 16/11/2010
PUMA5	16/11/2010 10.11.48			DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In T	hk: 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
1495	1	0	In	3,38	mm	,00	10,00	m	202	Pipe ASME B36.10 THRD-M NPT Seamless API 5L GR. B		25,02	
										Galvanized			
254	1	0	In		mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		3,30	
										Galvanized			
2765	1	1/2	In		mm	,00	3,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		1,71	
										Galvanized			
4675	1	0	In		mm	,00	2,00	NR	202	Tee Straight TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		1,14	
	1	1				_				Galvanized			
4569	1	0	In		mm	,00	3,00	NR	202	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		0,75	
	·	·	•	·					N	M Erection	Total Kg:	31,92	
SZ1	PIPING	BOM SA	ABIZ		01109	- 0			A A	AREA A 1/1	ΓΟΤΑL Kg:	31,92	

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
Line 01109 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allesti	ra				SKETCHES MATERIAL LIST PROJ: 11						1E35	<b>REV:</b> 0	16/11/2010
	PUM.	<b>A</b> 5		16/11/20	10.11	.48	1						DOC:	1E35-65-1103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In Thl	K: mm	Temp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg) As.h	ly Branch
1495	1	0	In	3,38		mm	,00	14,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5L	GR. B		35,03	
254	1	0	In			mm	00	1.00	NR	202	90° Flbow TA 50 7/2 THRD-F NPT 30	00# Forged AS	TM A 10	5	1 10	

Tee Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105

Galvanized

Galvanized

4569	1	0	In	mm ,0	1,00 NR	202	Cap TA 50.7/2	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		0,25
							M Erection		Total Kg:	37,52
SZ1	PIPINO	BOM S	ABIZ	01110 - 0		A	AREA A	1/1 <b>T</b> (	OTAL Kg:	37,52

,00

mm

2,00 NR 202

2765

1/2

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	l
<b>Line</b> 01110 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	Ballesti	ra					S	KETCH	IES MATERIAL LIST	PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	A5		16/11/20	010 10.11	.48	1					DOC:	1E35-	-65-1103			
			Bal	lestra						SUI	LPHUREX GH/F	Size: In Thk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	s.bly	Branch
1495	1	0	In	3,38		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized			12,51			
254	1	0	In			mm	,00	Galvanized  ,00 3,00 NR 202 90° Elbow TA 50.7/2 THRD-F NPT 3000# Forged AS  Galvanized							3,30		
2765	1	1/2	In			mm	,00	3,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT Galvanized	A 105		1,71			
4569	1	0	In			mm	,00	1,00	NR	202	Cap TA 50.7/2 THRD-F NPT 3000# Fo	rged ASTM A 105 Ga	lvanized		0,25		

M Erection

AREA A

A

PIPING BOM SABIZ

SZ1

01112 - 0

Plant SZ1 PIPING BOM SABIZ
Line 01112 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Total Kg:

TOTAL Kg:

17,77

Ball	estra	SKETCHES MATERIAL LIST	P	ROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.49		D	OC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: m	ım	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
1493	1/2	0	In	2,77	mm	,00	10,00	m	202	Pipe ASME B36.10 THRD-M NPT Seamless API 5L GR. B		12,66		
	,					_				Galvanized				
252	1/2	0	In		mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		1,20		
		1			1					Galvanized		"		
4673	1/2	0	In		mm	,00	4,00	NR	202	Tee Straight TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		1,12		
					"	_				Galvanized		"		
4567	1/2	0	In		mm	,00	1,00	NR	202	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		0,12		
			·						N	M Erection	Total Kg:	15,1		
SZ1	PIPING	BOM SA	BIZ		01113	- 0			A A	AREA A 1/1	TOTAL Kg:	15,1		

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
Line 01113 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b>	0	16/11/2010
PUMA5	16/11/2010 10.11.49		DOC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temp: °C	Pres: BAR		Corr: mm

									_				
Mark	S1	<b>S2</b>		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1498	2	0	In	3,91	mm	,00	18,00	m	202	Pipe ASME B36.10 THRD-M NPT Seamless API 5L GR. B		97,87	
		,							*	Galvanized	1	'	
257	2	0	In		mm	,00	1,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		3,30	
						_				Galvanized	1	'	
2775	2	1	In		mm	,00	2,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		3,60	
										Galvanized	1	'	
4678	2	0	In		mm	,00	1,00	NR	202	Tee Straight TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		1,80	
		,							*	Galvanized	1	'	
976	1	1/2	In		mm	,00	2,00	NR	202	Reducing Insert M/F TA 50.7/2 THRD-M NPT x THRD-F 3000#		0,38	
	·	·								Forged ASTM A 105 Galvanized			
986	2	1	In		mm	,00	1,00	NR	202	Reducing Insert M/F TA 50.7/2 THRD-M NPT x THRD-F 3000#		0,60	
										Forged ASTM A 105 Galvanized		'	
4572	2	0	In		mm	,00	1,00	NR	202	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105 Galvanized		1,60	
	•		,			-			·	M Erection	Total Kg:	109,15	
SZ1	PIPING	BOM SA	BIZ		01114 -	0			A A	AREA A 1/1	TOTAL Kg:	109,15	

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
<b>Line</b> 01114 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCE	ES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/20
	PUMA	15		16/11/20	10 10.11	.49							DOC:	1E35-65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: m
Mark	ark S1 S2 T1 T2 Len mm Qty									Pip. class	Component			Gen. Bolt	Weight (Kg) A	s.bly Brar
1.45.4	4	0	T.o.	2 10		mm	00	11.00		205	Dino ACME D26 10 DL E D W ADI SI	CD D			05.95	

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	11,00	m	205	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		95,85		
298	4	0	In	3,18	mm	,00	1,00	NR	205	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		2,07		
4461	4	0	In	3,18	mm	,00	1,00	NR	205	Cap ASME B16.9 BE Seamless ASTM A 234 GR. WPB		0,86		
	,		,			•		•	N	1 Erection	Total Kg:	98,78		
SZ1	PIPING	BOM SAI	BIZ		03101 -	- 0			A A	AREA A 1/1	TOTAL Kg:	98,78		

Plant SZ1 PIPING BOM SABIZ
Line 03101 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Pluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	ra					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	10 10.11.	49							DOC:	1E35-6	55-1103			,
			Ball	lestra						SUI	PHUREX GH/F	Size: In T	hk: mm	Temp: °C	С	Pres: BAR	С	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			G	Gen. Bolt	Weight (Kg)	As.bly	Branch
1438	2	0	In	3,91		mm	,00	11,00	m	205	Pipe ASME B36.10 PL Seamless API 5I	GR. B				59,81		
327	2	0	In	3,91		mm	,00	,00 1,00 NR 205 90° Elbow Long Radius ASME B16.9 BE Wroug								0,66		

J = 1	-	"		٠,,, ١		,00	-,00		Tradition Tibrition Brown BB (Trought Bribling		, ,,,	,
	·			·				GR. WPB				
4458	2	0	In	3,91	mm	,00	1,00 NR 205	Cap ASME B16	.9 BE Seamless ASTM A 234 GR. WPB		0,3	31
								M Erection		Total I	Kg: 60,	79
SZ1	PIPING	BOM S	ABIZ		03102 - 0		A	AREA A	1/1	TOTAL I	Kg: 60,7	79

Plant SZ1 PIPING BOM SABIZ
Line 03102 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestra	ı					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b>	0 16	5/11/2010
	PUMA5	5		16/11/20	10 10.11	.49							DOC:	1E35-65-1	103		•	
			Balle	stra						SU	PHUREX 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 V	Weight (Kg	g) As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	7,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B				28,34	1	
		_																

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	7,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		28,34	
1453	3	0	In	3,18		mm	,00	23,00	m	205	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		154,61	
403	1+1/2	0	In			mm	,00	1,00	NR	205	Flange Blind ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5193	1,60	
469	1+1/2	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5193	1,40	
158	1+1/2	0	In	3,68		mm	,00	1,00	NR	205	45° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		0,18	
326	1+1/2	0	In	3,68		mm	,00	3,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		1,10	
1754	1+1/2	1/2	In	3,68	2,77	mm	,00	1,00	NR	205	Reducer Concentric ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		0,26	
1756	1+1/2	1	In	3,68	3,38	mm	,00	1,00	NR	205	Reducer Concentric ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		0,26	
4460	3	0	In	3,18		mm	,00	1,00	NR	205	Cap ASME B16.9 BE Seamless ASTM A 234 GR. WPB		0,41	
5193	1/2	0	In			mm	75,00	4,00	NR	205	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		0,48	
663	1+1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C			
	1	-			1					N	M Erection	Total Kg:	188,65	
SZ1	PIPING I	BOM SA	BIZ			03103 -	0			A A	AREA A 1 / 1	TOTAL Kg:	188,65	

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 03103 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page
Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.50		DOC:	1E35-65-1103		
	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) A	s.bly	Branch
1438	2	0	In	3,91	mm	,00	23,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		125,05		
4551	2	0	In		mm	,00	1,00	NR	205	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		1,60		
					N	1 Erection	Total Kg:	126,65						
SZ1	SZ1 PIPING BOM SABIZ 03104 - 0		- 0			A A	AREA A 1/1	TOTAL Kg:	126,65					

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 03104 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

	Balle	estra	SKETCHES MATERIAL LIST		PROJ	1E35	<b>REV:</b> 0	16/11/2010
	PUMA5	16/11/2010 10.11.50			DOC:	1E35-65-1103		
		Ballestra	SULPHUREX GH/F	Size: In	Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm
Mark	C1 C2	T1 T2	 n Oty Um Pip. class Component			Gen. Bolt	Weight (Kg) As	bly Branch

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	20,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		108,74		
327	2	0	In	3,91	mm	,00	2,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		1,33		
4551	2	0	In		mm	,00	1,00	NR	205	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		1,60		
	300 77 144 200				N	1 Erection	Total Kg:	111,67						
SZ1	1 PIPING BOM SABIZ 03105 - 0 A			A A	AREA A 1/1	TOTAL Kg:	111,67							

Plant SZ1 PIPING BOM SABIZ
Line 03105 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Pluid
System
Dang. fluid type
Coating
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Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		Ba	llestra	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		REV:	0 10	6/11/2010
	PUMA5			16/11/20	10 10.11	.50							DOC:	1E35-	-65-1103			
			Balle	estra						SUI	LPHUREX GH/F	Size: In Th	k: mm	Temp:	°C	Pres: BAR		Corr: mm
						1 1				1					1			
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg	g) As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	20,00	m	205	Pipe ASME B36.10 PL Seamless API 5I	GR. B				80,98	8	
326	1+1/2	0	In	3,68		mm	,00,	2,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234					0,74	4	
		•	•								GR. WPB						·	
4550	1+1/2	0	In			mm	,00	1,00	NR	205	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105					0,75	5	

M Erection

AREA A

PIPING BOM SABIZ

03106 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 03106 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

82,47

		Bal	lestra					SF	KETCH	ES MATE	RIAL LIST		PROJ	1E35		REV:	) 1	16/11/2010
	PUMA5	.50								DOC:	1E35-	65-1103						
			Ballestra						SUL	PHUREX GH/I		Size: In	Thk: mm	Temp:	°C	Pres: BAR		Corr: mm
Mark	S1	S2	T1	Т2		Len mm	Otv	Um	Pip. class	Component					Gen. Bolt	Weight (Kg	) As.bly	Branch

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) A	s.bly	Branch
1438	2	0	In	3,91	mm	,00	25,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		135,93		
327	2	0	In	3,91	mm	,00	2,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		1,33		
4458	2	0	In	3,91	mm	,00	1,00	NR	205	Cap ASME B16.9 BE Seamless ASTM A 234 GR. WPB		0,31		
			•						N	1 Erection	Total Kg:	137,57		
SZ1	PIPING BOM SABIZ 03107 - 0 A			A A	AREA A 1/1	TOTAL Kg:	137,57							

Plant SZ1 PIPING BOM SABIZ
Line 03107 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Plind System

Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 16	5/11/2010
	PUMA5			16/11/20	10 10.11.	.50							DOC:	1E35-	-65-1103		
			Ball	estra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mn	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	26,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B				105,28	
326	1_1/2	0	In	3 68		mm	00	2.00	NR	205	90° Flbow Long Radius ASMF R16 9 F	E Wrong	ot S ASTM A	23/1		0.74	

Mark	S1	S2		T1	T2	Len mm	Qty	Um Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1437	1+1/2	0	In	3,68	mm	,00	26,00	m 205	Pipe ASME B36.10 PL Seamless API 5L GR. B		105,28	
326	1+1/2	0	In	3,68	mm	,00	2,00	NR 205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,74	
									GR. WPB			
4457	1+1/2	0	In	3,68	mm	,00,	1,00	NR 205	Cap ASME B16.9 BE Seamless ASTM A 234 GR. WPB		0,18	
								N	1 Erection	Total Kg:	106,2	
SZ1	PIPING B	OM SAE	BIZ		03108 -	0		A A	REA A 1/1	TOTAL Kg:	106,2	

Plant SZ1 PIPING BOM SABIZ
Line 03108 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Pluid
System
Dang. fluid type
Coating
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Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		Ba	allestra	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	REV:	16	5/11/2010
	PUMA	15		16/11/2	010 10.11	1.50							DOC:	1E35-65-110	3		
			Balle	estra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Q	y Um	Pip. class	Component			Gen. B	olt Weight (Kg	As.bly	Branch
1433	1/2	0	In	2.77		mm	.00	8.0	00 m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B			10.13		

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	8,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		10,13	
3107	1/2	0	In		mm	,00	3,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		5,10	
4942	1/2	0	In		mm	,00	1,00	NR	205	Steam Trap ST.46212/3 SW-F 300 LB Forged ASTM A 105 T 66		0,80	
4687	1/2	0	In		mm	,00	2,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# Forged ASTM A 105		0,56	
	·		•						N	M Erection	Total Kg:	16,59	
SZ1	PIPING	BOM SAI	BIZ		03111 -	. 0			A A	AREA A 1 / 1	TOTAL Kg:	16,59	

Plant SZ1 PIPING BOM SABIZ
Line 03111 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Pluid
System
Dang. fluid type
Coating
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Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA	.5		16/11/20	10 10.11.	.51							DOC:	1E35	-65-1103			
			Ball	estra						SUI	LPHUREX 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	7,00	) m	205	Pipe ASME B36.10 PL Seamless API 51	L GR. B				8,86		
3107	1/2	0	In			mm	,00	3,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	A 105 G 61			5,10		
4942	1/2	0	In			mm	,00	1,00	NR	205	Steam Trap ST.46212/3 SW-F 300 LB F	orged AST	M A 105 T 6	6		0,80		

4687	1/2	0	In		mm	,00	1,00	NR	20	05	Tee Straight T	A 50.6/1 SW-F 3000# Forged ASTM A 105		0,28
											M Erection		Total Kg:	15,04
SZ1	PIPING B	OM SA	BIZ	(	03112 -	0				A	AREA A	1/1 <b>T</b>	OTAL Kg:	15,04

Plant SZ1 PIPING BOM SABIZ
Line 03112 - 0
Fluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

		Ba	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	REV:	16	/11/2010
	PUMA5	5		16/11/20	10 10.11	.51							DOC:	1E35-65-11	.03		
			Balle	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen.	Bolt Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	19,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B			76,94		

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68	mm	,00	19,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		76,94		
326	1+1/2	0	In	3,68	mm	,00	1,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,37		
										GR. WPB				
4550	1+1/2	0	In		mm	,00	1,00	NR	205	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,75		
									N	M Erection	Total Kg:	78,05		
SZ1	PIPING E	BOM SAE	BIZ		03115	- 0			A A	AREA A 1/1	TOTAL Kg:	78,05		

Plant SZ1 PIPING BOM SABIZ
Line 03115 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Fluid
System
Dang. fluid type
Coating
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Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		Ba	allestra	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/	11/2010
	PUMA5	5		16/11/20	10 10.11.	51							DOC:	1E35-65-1103			
			Balle	estra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	c	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	13,00	m	205	Pipe ASME B36.10 PL Seamless API 5I	GR. B	•		52,64	•	

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	13,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		52,64		
326	1+1/2	0	In	3,68		mm	,00	1,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,37		
											GR. WPB				
4550	1+1/2	0	In			mm	,00	1,00	NR	205	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,75		
										N	1 Erection	Total Kg:	53,76		
SZ1	PIPING B	OM SAI	BIZ			03116 -	0			A A	AREA A 1/1	TOTAL Kg:	53,76		

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specificatio	n SP.1406/2-SP.1407/2
Line 03116 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestra	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/2	010 10.11.	.51							DOC:	1E35	-65-1103	•	•	
			Balle	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	: °C	Pres: BAR	C	Corr: mm
						1				7					1			
Mark	S1	<b>S2</b>		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	14,00	m	205	Pipe ASME B36.10 PL Seamless API 5I	GR. B				35,03		
324	1	0	In	3,38		mm	,00	1,00	NR	205	90° Elbow Long Radius ASME B16.9 B	E Wrough	t S ASTM A	234		0,14		
									_		GR. WPB							
4548	1	0	In			mm	,00	1,00	NR	205	Cap TA 50.7/2 THRD-F NPT 3000# Fo	rged AST	M A 105			0,25		

			N	M Erection	Total Kg:	35,42
SZ1	PIPING BOM SABIZ	03117 - 0	A	AREA A 1 / 1	TOTAL Kg:	35,42

Plant SZ1 PIPING BOM SABIZ
Line 03117 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Pipin

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>J:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.51		DOC	: 1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temp: °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len	n mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77	1	mm	,00	18,00	m	205	Pipe ASME B36.10 P	L Seamless API 5L GR. B		22,78	
	·			•		·				N	1 Erection		Total Kg:	22,78	·
SZ1	PIPING	BOM SA	BIZ		0	3118 - 0				A A	AREA A	1 / 1	TOTAL Kg:	22,78	

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 03118 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Ball	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.52			DOC:	1E35-65-1103		
	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	12,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		65,70		
296	2+1/2	0	In	3,18	mm	,00	2,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR.		1,59		
						_				WPB				
4459	2+1/2	0	In	3,18	mm	,00	1,00	NR	203	Cap ASME B16.9 BE Seamless ASTM A 234 GR. WPB		0,32		
									M	M Erection	Total Kg:	67,61		
SZ1	PIPING E	OM SAI	BIZ		04101	- 0			A A	AREA A 1/1	TOTAL Kg:	67,61		

Plant SZ1 PIPING BOM SABIZ
Line 04101 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 203
Pipin

	Ballestra		SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.52				DOC:	1E35-65-1103		
	Ballestra		SULPHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	Corr: mm
Mark S1 S2	T1 T2	Len mm	Oty Um Pin. class Component			Gen. Bolt	Weight (Kg) As	.bly Branch

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	12,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		65,70		
296	2+1/2	0	In	3,18	mm	,00	2,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		1,59		
4459	2+1/2	0	In	3,18	mm	,00	1,00	NR	203	Cap ASME B16.9 BE Seamless ASTM A 234 GR. WPB		0,32		
				·					N	1 Erection	Total Kg:	67,61		
SZ1	PIPING E	BOM SA	BIZ		04102	- 0			A A	AREA A 1/1	TOTAL Kg:	67,61		

Plant SZ1 PIPING BOM SABIZ
Line 04102 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 203
Pipin

		Ba	llestra	ı					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3	5	<b>REV:</b> 0	16	/11/2010
	PUMA5			16/11/2	010 10.1	1.52							DOC	: 1E3	5-65-1103			
			Balle	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Tem	p: °C	Pres: BAR	C	orr: 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			203	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				60,23		
296	2+1/2	0	In	3,18		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 B WPB	E E.R.W.	ASTM A 2	34 GR.		0,80		
5775	2+1/2	1+1/2	In	3,18	3,68	mm	,00	1,00	NR	203	Reducer Eccentric ASME B16.9 BE E.R	.W. ASTI	M A 234 GI	R. WPB		0,48		
4459	2+1/2	0	In	3,18		mm	,00	1,00	NR	203	Cap ASME B16.9 BE Seamless ASTM	A 234 GR	. WPB			0,32		

M Erection

AREA A

Α

SZ1

PIPING BOM SABIZ

05101 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
<b>Line</b> 05101 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

61,82

		Ba	llesti	ra					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3	5	<b>REV:</b> 0	16/11/2010
	PUMA5			16/11/20	010 10.11	.52							DO	C: 1E3	5-65-1103		
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Ten	ı <b>p:</b> °C	Pres: BAR	Corr: mm
Mark	S1	S2		Т1	Т2		Len mm	Otv	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bl	v Branch
1452	2+1/2	0	In	3,18	12	mm	,00			203	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B			Gen Bon	60,23	Junen
296	2+1/2	0	In	3,18		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 E	E E.R.W.	ASTM A	234 GR.		0,80	
			,								WPB						
5775	2+1/2	1+1/2	In	3,18	3,68	mm	,00	1,00	NR	203	Reducer Eccentric ASME B16.9 BE E.F	.W. ASTI	M A 234 G	R. WPB		0,48	
4459	2+1/2	0	In	3,18		mm	,00	1,00	NR	203	Cap ASME B16.9 BE Seamless ASTM	A 234 GR	. WPB			0,32	
	•			*	•	•	*			N	// Erection				Total Kg:	61,82	

TOTAL Kg:

61,82

Α

AREA A

SZ1

PIPING BOM SABIZ

05102 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
<b>Line</b> 05102 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.52		DOC:	1E35-65-1103		
	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	s.bly	Branch
1437	1+1/2	0	In	3,68	mm	,00	22,50	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		91,11		
4550	1+1/2	0	In		mm	,00	1,00	NR	203	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,75		
								N	1 Erection	Total Kg:	91,86			
SZ1	PIPING E	BOM SAI	BIZ		05103 -	- 0			A A	AREA A 1 / 1	TOTAL Kg:	91,86		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification SP.1406/2-SP.1407/3			
<b>Line</b> 05103 - 0	Fluid	System			
Dang. fluid type	Coating	De pres	Op tem		
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1		
Zones					

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.53		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As	s.bly	Branch
1437	1+1/2	0	In	3,68	mm	,00	22,50	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		91,11		
4550	1+1/2	0	In		mm	,00	1,00	NR	203	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,75		
								N	1 Erection	Total Kg:	91,86			
SZ1	PIPING E	BOM SAI	BIZ		05104	- 0			A A	AREA A 1 / 1	TOTAL Kg:	91,86		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification SP.1406/2-SP.1407/3				
<b>Line</b> 05104 - 0	Fluid	System				
Dang. fluid type	Coating	De pres	Op tem			
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
Zones						

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA5			16/11/20	)10 10.11	.53							DOC:	1E35-	65-1103			
			Ball	lestra						SUI	LPHUREX GH/F	Size: In Th	k: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2	]	Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	20,00	m	203	Pipe ASME B36.10 PL Seamless API 51	L GR. B				80,98		
326	1+1/2	0	In	3,68		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought S	ASTM A 2	234		0,37		
4550	1+1/2	0	In			mm	.00	1,00	NR	203	Cap TA 50.7/2 THRD-F NPT 3000# Fo	rged ASTM A	105			0,75		

M Erection

AREA A

PIPING BOM SABIZ

05105 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
<b>Line</b> 05105 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

82,1

		В	allestr	a				SKETCHES MATERIAL LIST PROJ: 1E35							5	<b>REV:</b> 0	16/11/2010
	PUMA5			16/11/20	10 10.11	1.53							DOC	: 1E35	5-65-1103		
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	o: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mn	n Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.l	ly Branch
1437	1+1/2	0	In	3,68		mm	,00	20,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				80,98	
326	1+1/2	0	In	3,68		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 E GR. WPB	E Wrought	S ASTM	A 234		0,37	
4550	1+1/2	0	In			mm	,00,	1,00	NR	203	Cap TA 50.7/2 THRD-F NPT 3000# Fo	orged ASTN	M A 105			0,75	
					·		·	·		N	1 Erection	·			Total Kg:	82,1	

TOTAL Kg:

82,1

Α

AREA A

PIPING BOM SABIZ

05106 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
<b>Line</b> 05106 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra		SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.53				DOC:	1E35-65-1103		
	Ballestra		SULPHUREX GH/F	Size: In	Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm
Mark S1 S2	T1 T2	Len mm	Oty Um Pip, class Component			Gen. Bolt	Weight (Kg)	As.bly Branch

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	10,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		40,49	
326	1+1/2	0	In	3,68		mm	,00	3,00	NR	203	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		1,10	
											GR. WPB			

				M Erection		Total Kg:	41,6
SZ1	PIPING BOM SABIZ	05107 - 0	A	AREA A	1 / 1	TOTAL Kg:	41,6

Plant SZ1 PIPING BOM SABIZ
Line 05107 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Bal	lestra		SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010	
PUMA5	16/11/2010 10.11.53				DOC:	1E35-65-1103		
	Ballestra		SULPHUREX GH/F	Size: In	Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm
Mark S1 S2	T1 T2	Len mm	Oty Um Pip. class Component			Gen. Bolt	Weight (Kg)	As.bly Branch

Mark	S1	S2			T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1437	1+1/2	0	In	3,68	mm	,00	10,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		40,49	
326	1+1/2	0	In	3,68	mm	,00	3,00	NR	203	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		1,10	
										GR. WPB			

				M Erection		Total Kg:	41,6
SZ1	PIPING BOM SABIZ	05108 - 0	A	AREA A	1/1	TOTAL Kg:	41,6

Plant SZ1 PIPING BOM SABIZ
Line 05108 - 0
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1

Piping Class 203
Welding specification SP.1406/2-SP.1407/3

System
De pres
Op tem
Page 1

Zones

		Ва	allestr	a						SK	ЕТСН	ES MATERIAL LIST		PR	ROJ:	1E35		<b>REV:</b> 0	16/	11/2010
	PUMA5	5		16/11/20	10 10.11.	.54								DO	OC:	1E35-6	5-1103	•		
			Ball	estra							SUI	PHUREX GH/F	Size: In	Thk: mr	n	Temp: °C	3	Pres: BAR	С	orr: mm
Mark	S1	S2		Т1	Т2		Len mn	06	, T.	m Di	ip. class	Component				(	en. Bolt	Weight (Kg)	A a bly	Branch
1437	1+1/2	0	In	3.68		mm	.00	_ `	_	n 20	•	Pipe ASME B36.10 PL Seamless API 51	L GR. B				sen, Don	56,69	AS.DIY	Drancii
326	1+1/2						,00	-	_	R 20		90° Elbow Long Radius ASME B16.9 B		t S AST	M A 2	234		0,37		

326	1+1/2 0	In	3,68	mm	,00	1,00	NR 203	U	adius ASME B16.9 BE Wrought S ASTM A	234	0,37	
								GR. WPB				
4550	1+1/2 0	In		mm	,00	1,00	NR 203	Cap TA 50.7/2 TH	RD-F NPT 3000# Forged ASTM A 105		0,75	
								M Erection		Total Kg:	57,81	
SZ1	PIPING BOM SA	ABIZ		05109 - (	)		A	AREA A	1/1	TOTAL Kg:	57,81	

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 05109 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		Ba	llestra	ļ					S	KETCH	ES MATERIAL LIST		PROJ	1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA5			16/11/20	10 10.11	.54							DOC:	1E35	-65-1103			
			Balles	stra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Otv	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.blv	Branch
1437	1+1/2	0	In	3,68		mm	,00	14,00	_	<b>-</b>	Pipe ASME B36.10 PL Seamless API 5I	GR. B				56,69		
326	1+1/2	0	In	3,68		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 B	E Wrough	t S ASTM A	234		0,37		
			-								GR. WPB							
4550	1+1/2	0	In			mm	,00	1,00	NR	203	Cap TA 50.7/2 THRD-F NPT 3000# Fo	rged ASTN	M A 105			0,75		

1 / 1

M Erection

AREA A

A

05110 - 0

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 05110 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

57,81

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA5	5		16/11/20	10 10.11	.54							DOC:	1E35-65-	-1103			
			Ball	lestra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp: °C		Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mn	ı Qty	Um	Pip. class	Component			Ge	en. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	21,0	) m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				85,03		
326	1+1/2	0	In	3,68		mm	,00,	2,0	) NR	203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	t S ASTM A	234		0,74		

Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105

				M Erection		Total Kg:	86,52
SZ1	PIPING BOM SABIZ	05111 - 0	A	AREA A	1/1	TOTAL Kg:	86,52

,00

mm

1,00 NR 203

4550

1+1/2 0

Plant SZ1 PIPING BOM SABIZ
Line 05111 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 203
Pipin

		В	allestr	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA5	5		16/11/20	10 10.11.	54							DOC:	1E35-6	65-1103			
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	C	orr: mm
Mark	S1	S2		T1	T2		Len mn	ı Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	21,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				85,03		
226	1 . 1 /2	Λ	In	2 69		mm	00	2.00	NID	202	00° Elbow Long Podius ASME D16 0 E	E Wrongh	+ C ACTM A	224		0.74		

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	21,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		85,03		
326	1+1/2	0	In	3,68		mm	,00	2,00	NR	203	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,74		
											GR. WPB				
4550	1+1/2	0	In			mm	,00	1,00	NR	203	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,75		
										N	1 Erection	Total Kg:	86,52		
SZ1	PIPING B	OM SAE	BIZ			05112 -	- 0			A A	REA A 1/1	TOTAL Kg:	86,52		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 05112 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.54			DOC:	1E35-65-1103		
	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	11,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		60,23		
296	2+1/2	0	In	3,18	mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		0,80		
4459	2+1/2	0	In	3,18	mm	,00	1,00	NR	203	Cap ASME B16.9 BE Seamless ASTM A 234 GR. WPB		0,32		
									N	1 Erection	Total Kg:	61,34		
SZ1	PIPING E	SOM SA	BIZ		07101	- 0			A A	AREA A 1/1	TOTAL Kg:	61,34		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 07101 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Ballestra	SKETCHES MATERIAL LIST	F	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.11.55		I	DOC:	1E35-65-1103		
Ballestra	SULPHUREX GH/F	Size: In Thk:	mm	<b>Temp:</b> °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	23,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		125,93		
4459	2+1/2	0	In	3,18	mm	,00	1,00	NR	203	Cap ASME B16.9 BE Seamless ASTM A 234 GR. WPB		0,32		
		•	•	·					N	M Erection	Total Kg:	126,25		
SZ1	PIPING E	BOM SA	BIZ		07102 -	. 0			A A	AREA A 1/1	TOTAL Kg:	126,25		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 07102 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	ra					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	R	EV: 0	16/	/11/2010
	PUMA	<b>A</b> 5		16/11/20	10 10.11	.55							DOC:	1E35-65-1	1103			
			Ball	lestra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres:	BAR	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen	n. Bolt Weig	ht (Kg)	As.bly	Branch
1438	2	0	In	3.91		mm	.00	27.00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				146.80		

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	27,00	m 203	Pipe ASME B36.10 PL Seamless API 5L GR. B		146,80	
327	2	0	In	3,91	mm	,00	2,00	NR 203	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		1,33	
								-	GR. WPB			
4458	2	0	In	3,91	mm	,00	1,00	NR 203	Cap ASME B16.9 BE Seamless ASTM A 234 GR. WPB		0,31	
		•	•					N	1 Erection	Total Kg:	148,45	
SZ1	PIPING	BOM SA	BIZ		07103 -	- 0		A A	REA A 1/1	TOTAL Kg:	148,45	

Plant SZ1 PIPING BOM SABIZ
Line 07103 - 0
Fluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

Ballestra		SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/201	10 10.11.55			DOC:	1E35-65-1103		
Ballestra		SULPHUREX GH/F	Size: In	Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) A	As.bly	Branch
1433	1/2	0	In	2,77	mm	,00	21,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		26,58		
4546	1/2	0	In		mm	,00	1,00	NR	203	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,12		
	·			·					N	1 Erection	Total Kg:	26,7		
SZ1	PIPING	BOM SAI	BIZ		07104	- 0			A A	AREA A 1/1	TOTAL Kg:	26,7		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 07104 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA	.5		16/11/20	)10 10.11	.55							DOC:	1E35-	-65-1103			
			Ball	estra						SUI	LPHUREX GH/F	Size: In Th	k: mm	Temp:	°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2	L	en mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	20,00	m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				50,04		
324	1	0	In	3,38		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought S	ASTM A	234		0,14		
4548	1	0	In			mm	,00	1,00	NR	203	Cap TA 50.7/2 THRD-F NPT 3000# Fo	rged ASTM A	105			0,25		

SZ1	PIPING BOM SABIZ	07105 - 0	A AREA A	1 / 1	TOTAL Kg: 50,43

M Erection

Plant SZ1 PIPING BOM SABIZ
Line 07105 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 203
Pipin

Total Kg:

		В	allestra	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA	.5		16/11/2	010 10.11.	.56							DOC:	1E35-	-65-1103			
			Balle	estra						SUI	PHUREX GH/F Si	Size: In T	hk: mm	Temp:	°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Otv	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As hlv	Branch
1435	1	0	In	3,38	12	mm	,00		-	203	Pipe ASME B36.10 PL Seamless API 5L Gl	R. B			Gen. Bott	37,53	1 LS.DIY	Dranen
324	1	0	In	3,38		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 BE W	Wrought S	S ASTM A	234		0,14		
											GR. WPB							
4548	1	0	In			mm	,00	1,00	NR	203	Cap TA 50.7/2 THRD-F NPT 3000# Forget	ed ASTM	A 105			0,25		

				M Erection		Total Kg:	37,92
SZ1	PIPING BOM SABIZ	07106 - 0	A	AREA A	1/1 <b>T</b>	OTAL Kg:	37,92

Plant SZ1 PIPING BOM SABIZ
Line 07106 - 0
Fluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.11.56			DOC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In Th	nk: mm	Temp: °C	Pres: BAR		Corr: mm

Mark	S1	S2		T1	T2	L	en mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.b	y Branch
1433	1/2	0	In	2,77	1	mm	,00	0,10	m	203	Pipe ASME B36.10 PL Sea	mless API 5L GR. B		0,13	
			•	•						N	1 Erection		Total Kg:	0,13	
SZ1	PIPING	BOM SA	BIZ		6	2001 - 0				A A	AREA A	1/1	TOTAL Kg:	0,13	

62Y8	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 62001 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.11.56			DOC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In Th	nk: 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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR.	В		0,13	
	·			•						M	1 Erection		Total Kg:	0,13	
SZ1	PIPING I	BOM SAI	BIZ			62003 -	- 0			A A	REA A 1 / 1	7	TOTAL Kg:	0,13	

62Y10 62Y32	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
62Y32	<b>Line</b> 62003 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.57			DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In	Thk: mm	Temn: °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Otv	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77	1	mm	,00	0,50		212	Pipe ASME B36.10 PL Seamless API 5L GR. B	Jour Box	0,63	
1454	4	0	In	3,18		mm	,00	0,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		4,36	
1457	6	0	In	3,96		mm	,00	3,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		48,15	
2984	1/2	0	In			mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Forged ASTM A 105 R 83		1,90	
473	4	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5201	5,60	
475	6	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5214	7,50	
301	6	0	In	3,96		mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		5,66	
1662	6	4	In	3,96	3,18	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		2,18	
5201	5/8	0	In			mm	95,00	16,00	NR	212	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		3,68	
5214	3/4	0	In			mm	100,00	8,00	NR	212	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		6,72	
699	4	0	In			mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
701	6	0	In			mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
	'	'	'	,	1	'					M Erection	Total Kg:	86,38	
SZ1	PIPING	BOM SA	ABIZ			62015	- 0			A	AREA A 1/1	TOTAL Kg:	86,38	

HV_62.4	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 62015 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a					S	KETCE	IES MATERIAL LIST		PR	OJ:	1E35		REV:	) 16	/11/2010
	PUMA5	5		16/11/20	10 10.11	.57							DO	C:	1E35-65	5-1103			
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm		<b>Temp:</b> °C		Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Ge	en. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	0,30	m	212	Pipe ASME B36.10 PL Seamless API 51	L GR. B					1,21		
1457	6	0	In	3,96		mm	,00	1,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B					24,07		
2852	1+1/2	0	In			mm	,00	1,00	NR	212	Valve Ball Full Port ST.46544/1 THRD- A 105 S 98	F NPT 80	0# Forge	d AS	TM		3,20		
5058	6	0	In			mm	,00	1,00	NR	212	Valve Butterfly With Gasket ST.46856/0 (125÷250 AARH) Cast DUCTILE IRON		150 LB F	RF	52	23	10,30		
475	6	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105		) AARH)	Forg	ged 52	14	7,50		
301	6	0	In	3,96		mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 B WPB	E E.R.W.	ASTM A	234 (	GR.		5,66		
2072	3	2	In	3,18	3,91	mm	,00	1,00	NR	212	Reducer Eccentric ASME B16.9 BE E.R	.W. ASTN	1 A 234 (	GR. W	VPB		0,57		
2086	6	3	In	3,96	3,18	mm	,00	1,00	NR	212	Reducer Eccentric ASME B16.9 BE E.R	.W. ASTN	1 A 234 (	GR. W	VPB		2,18		
5223	3/4	0	In			mm	155,00	8,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 V	UNC/2.2	TAB.	. 9		8,48		
										N	M Erection				Т	Total Kg:	63,18		
SZ1	PIPING I	BOM SA	ABIZ			62016	- 0			A A	AREA A 1 /	1			TO	TAL Kg:	63,18		

Plant SZ1 PIPING BOM SABIZPiping Class 212Welding specification SP.1406/2-SP.1407/3Line 62016 - 0FluidSystemDang, fluid typeCoatingDe presOp temArea AREA ASketch Sht 1/1Isometric codePage 1Zones

		Ba	llest	ra					S	SKETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/20	010 10.11	1.58	1						DOC:	1E35	-65-1103		
			Bal	llestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	y Branch
1453	3	0	In	3,18		mm	,00	40,00		212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				268,88	
472	3	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25)	0 AARH) Foi	ged	5201	4,10	
129	3	0	In	3,18		mm	,00	1,00	NR	212	45° Elbow Long Radius ASME B16.9 B WPB	E E.R.W.	ASTM A 234	GR.		0,60	
297	3	0	In	3,18		mm	,00	5,00	NR	212	90° Elbow Long Radius ASME B16.9 B WPB	E E.R.W.	ASTM A 234	GR.		5,88	
1644	3	1+1/4	In	3,18	3,56	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E.	R.W. AST	M A 234 GR	. WPB		0,57	
5201	5/8	0	In			mm	95,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.2 TAI	3.9		0,92	
698	3	0	In			mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250	O AARH)	_B5B				
	-		1		'			'		N	1 Erection				Total Kg:	280,96	·

AREA A

SZ1

PIPING BOM SABIZ

62017 - 0

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 212
 Welding specification SP.1406/2-SP.1407/3

 Line 62017 - 0
 Fluid
 System

 Dang. fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

1 / 1

280,96

TOTAL Kg:

		В	allestr	a					5	SKETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/20	010 10.11	1.58							DOC:	1E35-	65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In T	hk: mm	Temp:	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	y Branch
1454	4	0	In	3,18		mm	,00,	31,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				270,13	
473	4	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R	F (125÷250 A	AARH) For	ged	5201	5,60	
298	4	0	In	3,18		mm	,00	7,00	NR	212	90° Elbow Long Radius ASME B16.9 B WPB	SE E.R.W. AS	STM A 234	GR.		14,47	
5201	5/8	0	In			mm	95,00	8,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UN	NC/2.2 TAE	3. 9		1,84	
699	4	0	In			mm	,00,	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250	0 AARH) _ E	85B				
		-	1	,		'				N	/I Erection				Total Kg:	292,04	

Α

AREA A

PIPING BOM SABIZ

SZ1

62018 - 0

Plant SZ1 PIPING BOM SABIZPiping Class 212Welding specification SP.1406/2-SP.1407/3Line 62018 - 0FluidSystemDang, fluid typeCoatingDe presOp temArea AREA ASketch Sht 1/1Isometric codePage 1Zones

1 / 1

TOTAL Kg:

	estra		ST PRO	<b>J:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.58		DOC	: 1E35-65-1103		
	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	0,50		212	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,63	
1454	4	0	In	3,18	mm	,00	6,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		52,28	
1541	4	0	In	2,11	mm	,00	1,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316		5,96	
2984	1/2	0	In		mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Forged ASTM A 105 R 83		1,90	
4960	4	0	In		mm	,00	1,00	NR	212	Valve Bottom & Screw ST.46591/3 LUG 150 LB RF (125÷250 AARH) Cast ASTM A 216 GR. WCB Type A S 128		33,00	
454	4	0	In		mm	,00	2,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized	5138	11,20	
473	4	0	In		mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5201	5,60	
298	4	0	In	3,18	mm	,00	3,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		6,20	
1234	4	0	In	2,11	mm	,00	2,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR. WP316 Type A		1,25	
5201	5/8	0	In		mm	95,00	8,00	NR	212	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		1,84	
5138	5/8	0	In		mm	110,00	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		4,00	
699	4	0	In		mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			$\top$
718	4	0	In		mm	,00	2,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F			
	1	1	1		1	·		,	]	M Erection	Total Kg:	123,86	
SZ1	PIPING	BOM SA	ABIZ		62019	. 0			Α .	AREA A 1/1	TOTAL Kg:	123,86	

KV_63.9	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 62019 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a						SF	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/20	10 10.11	.58								DOC:	1E35-	-65-1103		
			Ball	lestra							SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qt	ty (	J <b>m I</b>	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	y Branch
1453	3	0	In	3,18		mm	,00	2,0	00	m 2	212	Pipe ASME B36.10 PL E.R.W. API 5L (	GR. B				13,44	
472	3	0	In			mm	,00	1,0	00 1	NR 2	212	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH) For	ged	5201	4,10	
297	3	0	In	3,18		mm	,00	2,0	00 1	NR 2	212	90° Elbow Long Radius ASME B16.9 B WPB	E E.R.W. A	ASTM A 234	GR.		2,35	
5201	5/8	0	In			mm	95,00	4,0	00 1	NR 2	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAE	3. 9		0,92	
698	3	0	In			mm	,00	1,0	00 1	NR 2	212	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5B				
						•					N	I Erection				Total Kg:	20,82	

AREA A

PIPING BOM SABIZ

SZ1

62020 - 0

Plant SZ1 PIPING BOM SABIZPiping Class 212Welding specification SP.1406/2-SP.1407/3Line 62020 - 0FluidSystemDang. fluid typeCoatingDe presOp temArea AREA ASketch Sht 1/1Isometric codePage 1Zones

1 / 1

TOTAL Kg:

		В	Ballestr	a					S	SKETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 1	6/11/2010
	PUMA	.5		16/11/2	010 10.11	.59							DOC:	1E35	-65-1103		
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1454	4	0	In	3,18		mm	,00	2,00		212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				17,43	
473	4	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	AARH) For	ged	5201	5,60	
298	4	0	In	3,18		mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 E WPB	E E.R.W.	ASTM A 234	GR.		2,07	
5201	5/8	0	In			mm	95,00	8,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAI	3.9		1,84	
699	4	0	In			mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH) _	B5B				
									-	N	1 Erection				Total Kg:	26,93	

AREA A

PIPING BOM SABIZ

SZ1

62021 - 0

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 212
 Welding specification SP.1406/2-SP.1407/3

 Line 62021 - 0
 Fluid
 System

 Dang, fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

1 / 1

TOTAL Kg:

Bal	lestra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.11.59			DOC:	1E35-65-1103		
	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	28,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		152,24	
2833	2	0	In		mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD-F NPT 200 LB Forged BRASS NICKEL PLATED S 87		2,20	
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	
470	2	0	In		mm	,00	3,00	NR	203	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5199	6,60	
472	3	0	In		mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5201	4,10	
129	3	0	In	3,18	mm	,00	3,00	NR	203	45° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		1,81	
297	3	0	In	3,18	mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		1,18	
327	2	0	In	3,91	mm	,00	5,00	NR	203	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		3,32	
1646	3	2	In	3,18	3,91 mm	,00	1,00	NR	203	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		0,57	
1259	2	0	In		mm	,00	1,00	NR	203	Union TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		2,01	
5199	5/8	0	In		mm	85,00	8,00	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		1,68	
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	
664	2	0	In		mm	,00	2,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C			
	1	,	,	'					N	M Erection	Total Kg:	180,38	1
SZ1	PIPING	BOM S	ABIZ		62022	- 0			A A	AREA A 1/1	TOTAL Kg:	180,38	

FQ_62.1	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 62022 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a						SKETCH	HES MATERIAL LIST		PROJ	: 1E35	5	<b>REV:</b> 0	16	/11/2010
	PUMA	<b>\</b> 5		16/11/20	010 10.11	.59							DOC:	1E35	5-65-1103		•	
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	): °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Uı	n Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1438	2	0	In	3,91		mm	,00	14,00	m	203	Pipe ASME B36.10 PL Seamless API 5L	GR. B				76,12		
2833	2	0	In			mm	,00	1,00	N	R 203	Valve Ball Full Port ST.46330/3 THRD-BRASS NICKEL PLATED S 87	F NPT 20	00 LB Forged	l		2,20		
3179	2	0	In			mm	,00	1,00	N	R 203	Strainer Y-Type ST.46326/4 THRD-F N F 70	PT 200 L	B Forged BR	RONZE		5,00		
470	2	0	In			mm	,00	1,00	N	R 203	Flange Slip-On ASME B16.5 150 LB RF ASTM A 105	(125÷25	0 AARH) Fo	rged	5199	2,20		
327	2	0	In	3,91		mm	,00	5,00	N	R 203	90° Elbow Long Radius ASME B16.9 BI GR. WPB	E Wrough	t S ASTM A	234		3,32		
1259	2	0	In			mm	,00	1,00	N	R 203	Union TA 50.7/2 THRD-F NPT 3000# F	Forged AS	STM A 105			2,01		
5199	5/8	0	In			mm	85,00	4,00	N	R 203	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/ASTM A 194 GR.2H	B18.2.1	UNC/2.2 TA	B. 9		0,84		

M Erection

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

1 / 1

,00

mm

62023 - 0

1,00 NR 203

Α

664

0

PIPING BOM SABIZ

LCV_62.1	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 62023 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Total Kg:

TOTAL Kg:

91,69

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/20	010 10.12	.00							DOC:	1E35-6	65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In Tl	nk: mm	Temp: °	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			(	Gen. Bolt	Weight (Kg) As.bly	y Branch
1453	3	0	In	3,18		mm	,00	3,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				20,17	
472	3	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 A	ARH) For	ged 5	5201	4,10	
297	3	0	In	3,18		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 B WPB	E E.R.W. AS	TM A 234	GR.		1,18	
5201	5/8	0	In			mm	95,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UN	C/2.2 TAE	3. 9		0,92	
666	3	0	In			mm	,00	1,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _ B	5C				
	'	'					•			N	1 Erection				Total Kg:	26,36	

AREA A

1 / 1

TOTAL Kg:

26,36

PIPING BOM SABIZ

SZ1

62024 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62024 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		E	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11	1/2010
	PUMA	A5		16/11/20	010 10.12	.00	1						DOC:	1E35-65-1103	•	•	
			Ball	lestra						SUI	LPHUREX GH/F	Size: In Th	<b>₹:</b> mm	Temp: °C	Pres: BAR	Corr	r: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	As.bly B	Branch
1438	2	0	In	3,91		mm	,00	1,00	m	203	Pipe ASME B36.10 PL Seamless API 5I	GR. B			5,44		
2833	2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200 L	B Forged		2,20		
470	2	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250 AA	ARH) For	ged 5199	2,20		
1259	2	0	In			mm	,00	1,00	NR	203	Union TA 50.7/2 THRD-F NPT 3000#	Forged ASTM	A 105		2,01		
5199	5/8	0	In			mm	85,00	2,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UNC	C/2.2 TAE	3.9	0,42		
664	2	0	In			mm	.00	1,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) B5	C				

1 / 1

M Erection

AREA A

A

62025 - 0

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification SP.140	)6/2-SP.1407/3
Line 62025 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

12,27

		В	allestr	a					S	KETCH	HES MATERIAL LIST		PI	ROJ:	1E35		<b>REV:</b> 0	16/	11/2010
	PUMA	15		16/11/2	010 10.12	2.00	1						D	OC:	1E35-65	5-1103			
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: m	m	<b>Temp:</b> °C		Pres: BAR	C	orr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Ge	en. Bolt	Weight (Kg)	As.bly	Branch
1454	4	0	In	3,18		mm	,00	33,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B					287,56		
130	4	0	In	3,18		mm	,00	2,00	NR	203	45° Elbow Long Radius ASME B16.9 E WPB	E E.R.W.	ASTM A	A 234	GR.		2,04		
298	4	0	In	3,18		mm	,00	4,00	NR	203	90° Elbow Long Radius ASME B16.9 E WPB	E E.R.W.	ASTM A	A 234	GR.		8,27		
										1	M Erection				T	Total Kg:	297,86		
SZ1	PIPING	BOM SA	ABIZ			62026	- 0			A	AREA A 1	1			TO	TAL Kg:	297,86		

FUNNEL ST.46250/2 Fe360 - 4" N.1pz Plant SZ1 PIPING BOM SABIZ Piping Class 203 Welding specification SP.1406/2-SP.1407/3 Line 62026 - 0 Fluid System Dang. fluid type Coating De pres Op tem Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

PUMA5         16/11/2010 10.12.01         DOC:         1E35-65-1103           Ballestra         SULPHUREX GH/F         Size: In Thk: mm Temp: °C Pres: BAR Corr: mm	Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
Ballestra SULPHUREX GH/F Size: In Thk: mm Temp: °C Pres: BAR Corr: mm	PUMA5	16/11/2010 10.12.01			DOC:	1E35-65-1103			
		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	6,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		40,33	
1539	2+1/2	0	In	2,11	mm	,00	1,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316		3,76	
5023	3	0	In		mm	,00	2,00	NR	203	Valve Butterfly With Gasket ST.46373/5 WAFER 150 LB RF (125÷250 AARH) Cast DUCTILE IRON B 74	5209	7,00	
452	2+1/2	0	In		mm	,00	2,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized	5136	7,20	
472	3	0	In		mm	,00	3,00	NR	203	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5201	12,30	
297	3	0	In	3,18	mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		1,18	
351	2+1/2	0	In	2,11	mm	,00	1,00	NR	216	90° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403 GR. WP316		0,54	
1647	3	2+1/2	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		0,57	
1232	2+1/2	0	In	2,11	mm	,00	2,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR. WP316 Type A		0,65	
5209	5/8	0	In		mm	140,00	8,00	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		2,32	
5136	5/8	0	In		mm	100,00	8,00	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		1,84	
716	2+1/2	0	In		mm	,00	2,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F			
	,	•		•				•		M Erection	Total Kg:	77,69	
SZ1	PIPING E	BOM SA	BIZ		62027	- 0			A	AREA A 1/1	TOTAL Kg:	77,69	

KV_63.5	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 62027 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	Ballest	ra					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	010 10.12	2.01	1						DOC:	1E35-6	65-1103	•		•
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	C	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	0,20	m	212	Pipe ASME B36.10 PL Seamless API 5I	GR. B				0,25		
1438	2	0	In	3,91		mm	,00	1,00	m	212	Pipe ASME B36.10 PL Seamless API 5I	GR. B				5,44		
2984	1/2	0	In			mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Fo	rged AST!	M A 105 R 8	3		1,90		
470	2	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH) For	rged 5	5199	2,20		
327	2	0	In	3,91		mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	t S ASTM A	234		1,33		
5199	5/8	0	In			mm	85,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TA	B. 9		0,84		
696	2	0	In			mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5B					
										N	1 Erection			'	Total Kg:	11,96		-

1 / 1

TOTAL Kg:

11,96

Α

AREA A

SZ1

PIPING BOM SABIZ

62029 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
Line 62029 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.12.01			DOC:	1E35-65-1103			
	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.	oly Branch
1433	1/2	0	In	2,77		mm	,00	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. E	3		0,13	
										M	Erection		Total Kg:	0,13	
SZ1	PIPING B	OM SAE	BIZ		(	62036 -	0			A A	REA A 1/1	7	TOTAL Kg:	0,13	

62Y10A	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
62Y32A	<b>Line</b> 62036 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle			SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5 16/11/2010 10.12.01					DOC:	1E35-65-1103			
	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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13		
									N	A Erection	Total Kg:	0,13		_
SZ1	PIPING	BOM SA	BIZ		6204	1 - 0			A A	AREA A 1 / 1	TOTAL Kg:	0,13		

62Y9	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 62041 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PR	<b>OJ:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.02		DC	C: 1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mn	Temp: °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Ger	en. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B			0,13	
			·							N	1 Erection	Te	otal Kg:	0,13	
SZ1	PIPING	BOM SA	BIZ			62042 -	0			A A	REA A 1 / 1	тот	ΓAL Kg:	0,13	

62Y9A	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 62042 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	P	, K( ) I ·	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.12.02		$\Gamma$	OC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In Thk: 1	mm	Temp: °C	Pres: BAR	<u>-</u>	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Otv	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77	12	mm	.00	0,50		212	Pipe ASME B36.10 PL Seamless API 5L GR. B	Gen. Bon	0,63	Drunen
1454	4	0	In	3,18		mm	,00	0,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		4,36	
1457	6	0	In	3,96		mm	,00	3,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		48,15	
2984	1/2	0	In			mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Forged ASTM A 105 R 83		1,90	
473	4	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5201	5,60	
475	6	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5214	7,50	
301	6	0	In	3,96		mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		5,66	
1662	6	4	In	3,96	3,18	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		2,18	
5201	5/8	0	In			mm	95,00	16,00	NR	212	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		3,68	
5214	3/4	0	In			mm	100,00	8,00	NR	212	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		6,72	
699	4	0	In			mm	.00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) B5B			
701	6	0	In			mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
			1	1	1		l				M Erection	Total Kg:	86,38	
SZ1	PIPING	BOM SA	ABIZ			62046	- 0			A	AREA A 1/1	TOTAL Kg:	86,38	

HV_62.5	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 62046 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		E	Ballest	ra						SKE	TCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2	.010
	PUMA	15		16/11/2	010 10.1	2.02								DOC:	1E35-0	65-1103			
			Ba	llestra							SUL	LPHUREX GH/F	Size: In	Γhk: mm	Temp:	°C	Pres: BAR	Corr: m	nm
Mark	S1	S2		T1	T2		Len mm	Qty	Uı	m Pip.	class	Component				Gen. Bolt	Weight (Kg) As.	bly Bra	ınch
1457	6	0	In	3,96		mm	,00	4,00	) n	n 212		Pipe ASME B36.10 PL E.R.W. API 5L	GR. B		ĺ		64,19		
5058	6	0	In			mm	,00	1,00	) N	R 212		Valve Butterfly With Gasket ST.46856/ (125÷250 AARH) Cast DUCTILE IRON		50 LB RF	-	5223	10,30		
475	6	0	In			mm	,00	1,00	) N	R 212		Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 .	AARH) For	rged :	5214	7,50		
301	6	0	In	3,96		mm	,00	2,00	) N	R 212		90° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W. A	STM A 234	GR.		11,33		
5223	3/4	0	In			mm	155,00	8,00	) N	R 212		Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H		NC/2.2 TAI	B. 9		8,48		
											M	1 Erection				Total Kg:	101,8		
SZ1	PIPING	BOM S.	ABIZ			62047	- 0			A	A	REA A 1	/ 1		T	OTAL Kg:	101,8		

Plant SZ1 PIPING BOM SABIZPiping Class 212Welding specification SP.1406/2-SP.1407/3Line 62047 - 0FluidSystemDang, fluid typeCoatingDe presOp temArea AREA ASketch Sht 1/1Isometric codePage 1Zones

		В	allestr	a						SKETCI	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 1	6/11/2010
	PUMA	15		16/11/20	010 10.12	2.02							DOC:	1E35-0	65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In Tl	hk: mm	Temp:	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Ur	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1454	4	0	In	3,18		mm	,00	2,00	) m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				17,43	
473	4	0	In			mm	,00	1,00	) NI	R 212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 A	ARH) For	ged :	5201	5,60	
298	4	0	In	3,18		mm	,00	1,00	) NI	R 212	90° Elbow Long Radius ASME B16.9 I WPB	BE E.R.W. AS	TM A 234	GR.		2,07	
5201	5/8	0	In			mm	95,00	8,00	) NI	R 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UN	C/2.2 TAE	3.9		1,84	
699	4	0	In			mm	,00	1,00	) NI	R 212	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH) _ B	5B				
		-	1	,	-						M Erection				Total Kg:	26,93	

Α

AREA A

PIPING BOM SABIZ

SZ1

62048 - 0

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 212
 Welding specification SP.1406/2-SP.1407/3

 Line 62048 - 0
 Fluid
 System

 Dang, fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

1 / 1

TOTAL Kg:

		E	Ballesti	ra					5	SKETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 1	6/11/2010
	PUMA	<b>1</b> 5		16/11/20	10 10.12	.02							DOC:	1E35	-65-1103		
			Bal	lestra		-				SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp	: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2	1	Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1438	2	0	In	3,91		mm	,00	4,00	m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				21,75	
2833	2	0	In			mm	,00	BRASS NICKEL PLATED S 87								2,20	
470	2	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH) For	ged	5199	2,20	
159	2	0	In	3,91		mm	,00	2,00	NR	203	45° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought	S ASTM A	234		0,63	
1259	2	0	In			mm	,00	1,00	NR	R 203	Union TA 50.7/2 THRD-F NPT 3000#	Forged AST	M A 105			2,01	
5199	5/8	0	In			mm	85,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	NC/2.2 TAI	3.9		0,84	
664	2	0	In			mm	,00	1,00	NR	R 203	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5C				
							•			N	1 Erection				Total Kg:	29,62	

AREA A

SZ1

PIPING BOM SABIZ

62049 - 0

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 203
 Welding specification SP.1406/2-SP.1407/3

 Line 62049 - 0
 Fluid
 System

 Dang, fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

1 / 1

TOTAL Kg:

		I	Ballest	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/1	11/2010
	PUMA	<b>\</b> 5		16/11/20	010 10.12	2.03							DOC:	1E35-6	55-1103	•		
			Bal	llestra						SU	LPHUREX GH/F	Size: In Thk	; mm	Temp: °C	С	Pres: BAR	Co	rr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			C	Gen. Bolt	Weight (Kg) A	s.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,20	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				0,25		
1438	2	0	In	3,91		mm	,00	1,00	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				5,44		
2984	1/2	0	In			mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Fo	orged ASTM A	105 R 83			1,90		
4957	2	0	In			mm	,00	1,00	NR	212	Valve Bottom & Screw ST.46591/3 LUG AARH) Cast ASTM A 216 GR. WCB	`	25÷250			10,50		
470	2	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 AA	RH) For	ged 5	199	2,20		
327	2	0	In	3,91		mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 E GR. WPB	BE Wrought S A	STM A	234		1,33		
5199	5/8	0	In			mm	85,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UNC	/2.2 TAE	3. 9		0,84		
696	2	0	In			mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH) _ B5	В					
										N	1 Erection				Total Kg:	22,46	,	

AREA A

1 / 1

TOTAL Kg:

22,46

SZ1

PIPING BOM SABIZ

62050 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification SP.1406/2-SP.1407/3					
Line 62050 - 0	Fluid	System					
Dang. fluid type	Coating	De pres	Op tem				
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1				
Zones							

Ballestra   PUMA5   16/11/2010 10.12.03     Ballestra								SKETCHES MATERIAL LIST PROJ: 1E35						1E35		<b>REV:</b> 0	16	5/11/2010	
							1	<b>DOC:</b> 1E35								5-65-1103			
								SULPHUREX GH/F Size: in Thk: mm Temp							Temp:	°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Otv	Um	Pip. class	Component					Gen. Bolt	Weight (Kg)	As.blv	Branch
1438	2	0	In	3,91		mm	,00			212	Pipe ASME B36.10 PL Seamless API 51	L GR. B					32,62		
2843	2	0	In			mm	,00	1,00	NR	212	Valve Ball Full Port ST.46590/3 LUG 1 Forged ASTM A 105 S 127	50 LB R	F (125-	-250 AA	ARH)	5376	10,50		
470	2	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷2	250 AA	RH) For	ged :	5199	2,20		
159	2	0	In	3,91		mm	,00	2,00	NR	212	45° Elbow Long Radius ASME B16.9 B GR. WPB	BE Wrou	ght S A	STM A	234		0,63		
5199	5/8	0	In			mm	85,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM	E B18.2.	1 UNC	2.2 TAI	3.9		0,84		T

M Erection

AREA A

2,00 NR 212

A

16,00 NR 212

mm

mm

62052 - 0

,00

40,00

696

5376

SZ1

5/8

PIPING BOM SABIZ

ASTM A 193 B7/ASTM A 194 GR.2H

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5B

Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7

1 / 1

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 62052 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

2,40

49,19

49,19

Total Kg:

TOTAL Kg:

Ballestra   PUMA5   16/11/2010 10.12.03   Ballestra								SKETCHES MATERIAL LIST PROJ: 1E35							i	<b>REV:</b> 0	16/11/2010
						2.03							DOC:	1E35	5-65-1103		•
										SU	LPHUREX GH/F	Size: In	Size: In Thk: mm Temp: °C		: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.J	oly Branch
1453	3	0	In	3,18		mm	,00,	43,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				289,05	
5023	3	0	In			mm	,00	1,00	NR	203	Valve Butterfly With Gasket ST.46373/. (125÷250 AARH) Cast DUCTILE IRO		150 LB RF		5209	3,50	
472	3	0	In			mm	,00	2,00	NR	203	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	) AARH) For	rged	5201	8,20	
297	3	0	In	3,18		mm	,00	7,00	NR	203	90° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W.	ASTM A 234	GR.		8,24	
5209	5/8	0	In			mm	140,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H		JNC/2.2 TA	B. 9		1,16	
										N	M Erection				Total Kg:	310,14	
SZ1	PIPING	BOM S	ABIZ			62053 -	- 0			A A	AREA A 1	/ 1		,	TOTAL Kg:	310,14	

Plant SZ1 PIPING BOM SABIZ	Piping Class	203	Welding specification SP.1406/2-SP.1407/3		
Line 62053 - 0	Fluid	System			
Dang. fluid type	Coating	De pres	Op tem		
Area AREA A	Sketch Sht	1/1	Isometric code	Page	1
Zones					

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ	1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA	.5		16/11/20	010 10.12	.03							DOC:	1E35-	-65-1103		•	
			Balle	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	4,00	_	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			5,06		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forged			0,30		
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	1 ASTM A 10	)5		1,20		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30		
										N	1 Erection				Total Kg:	6,86		

TOTAL Kg:

6,86

AREA A

A

SZ1

PIPING BOM SABIZ

62101 - 0

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 202
 Welding specification

 Line 62101 - 0
 Fluid
 System

 Dang, fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

		F	Ballesti	ra					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E35	5	<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/2	010 10.12	.04	1						DOC	: 1E35	5-65-1103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	): °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	y Branch
1493	1/2	0	In	2,77		mm	,00	4,00	_	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			5,06	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forge	d		0,30	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	l ASTM A	105		1,20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
										N	1 Erection				Total Kg:	6,86	

TOTAL Kg:

6,86

AREA A

A

PIPING BOM SABIZ

62102 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62102 - 0
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1

Piping Class 202
Welding specification
System
De pres
Op tem
Isometric code
Page 1
Zones

		F	Ballesti	ra					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E35	5	<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/2	010 10.12	.04	1						DOC	: 1E35	5-65-1103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	y Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			6,33	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forge	d		0,30	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	l ASTM A	105		1,20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
										N	1 Erection				Total Kg:	8,13	

TOTAL Kg:

8,13

AREA A

A

PIPING BOM SABIZ

62103 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62103 - 0
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1

Piping Class 202
Welding specification
System
De pres
Op tem
Isometric code
Page 1
Zones

		I	Ballesti	a					S	KETCH	IES MATERIAL LIST		P	ROJ:	1E35	<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/2	010 10.12	2.04							D	OC:	1E35-65-1103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk:	ım	Temp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.l	oly Branch
1493	1/2	0	In	2,77		mm	,00	4,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR	. В		5,06	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	-F NPT 20	0 LB F	orged		0,30	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	1 ASTI	<b>I</b> A 10	5	1,20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A	105		0,30	
										N	1 Erection				Total Kg:	6,86	

TOTAL Kg:

6,86

AREA A

A

PIPING BOM SABIZ

62104 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62104 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		I	Ballesti	a					S	KETCH	IES MATERIAL LIST		P	ROJ:	1E35	<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/2	010 10.12	2.04							D	OC:	1E35-65-1103	_	
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk:	ım	Temp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.l	oly Branch
1493	1/2	0	In	2,77		mm	,00	4,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR	. В		5,06	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	-F NPT 20	0 LB F	orged		0,30	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	1 ASTI	<b>I</b> A 10	5	1,20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A	105		0,30	
										N	1 Erection				Total Kg:	6,86	

TOTAL Kg:

6,86

AREA A

A

PIPING BOM SABIZ

62105 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62105 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Ball	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.04		DOC:	1E35-65-1103		
	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
1435	1	0	In	3,38	mm	,00	2,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		5,00	
1437	1+1/2	0	In	3,68	mm	,00	8,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		32,39	
3111	1+1/2	0	In		mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		14,00	
3125	1	0	In		mm	,00	1,00	NR	205	Valve Globe ST.46274/3 SW-F 800# Forged ASTM A 105 D 72		5,40	
3189	1+1/2	0	In		mm	,00	1,00	NR	205	Strainer Y-Type ST.46276/1 SW-F 800# Forged ASTM A 105 F 69		3,20	
467	1	0	In		mm	,00	3,00	NR	205	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5192	2,40	
								_		ASTM A 105			
158	1+1/2	0	In	3,68	mm	,00	2,00	NR	205	45° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,37	
						•				GR. WPB			
324	1	0	In	3,38	mm	,00	2,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,27	
										GR. WPB			
326	1+1/2	0	In	3,68	mm	,00	3,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		1,10	
										GR. WPB		*	
1756	1+1/2	1	In	3,68	3,38 mm	,00	4,00	NR	205	Reducer Concentric ASME B16.9 BE Wrought S ASTM A 234 GR.		1,03	
										WPB		-	
5192	1/2	0	In		mm	70,00	12,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		1,32	
		1			1					ASTM A 193 B7/ASTM A 194 GR.2H			
661	1	0	In		mm	,00	3,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C			
		'	'					1		M Erection	Total Kg:	66,49	<u> </u>
SZ1	PIPING E	BOM SA	BIZ		62108	- 0			A	AREA A 1/1	TOTAL Kg:	66,49	

TVC_62.1	Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	n SP.1406/2-SP.1407/2
	<b>Line</b> 62108 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allest	ra					S	KETCH	IES MATERIAL LIST		PRO	J: 1E35	5	<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/2	010 10.12	2.05							DOC	: 1E35	5-65-1103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	): °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	y Branch
1433	1/2	0	In	2,77		mm	,00	6,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				7,59	
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	A 105 G 6	1		1,70	
467	1	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	) AARH) F	orged	5192	0,80	
1749	1	1/2	In	3,38	2,77	mm	,00	1,00	NR	205	Reducer Concentric ASME B16.9 BE W WPB	rought S A	ASTM A 23	4 GR.		0,14	
5192	1/2	0	In			mm	70,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.2 TA	AB. 9		0,44	
661	1	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5C				
	,			'			<u> </u>			N	// Erection				Total Kg:	10,67	

AREA A

1 / 1

TOTAL Kg:

10,67

62110 - 0

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 62110 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Pluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestra	1		•			S	KETCH	ES MATERIAL LIST			PROJ:	1E35	•	<b>REV:</b> 0	16/	11/2010
	PUMA	.5		16/11/20	10 10.12	.05							Ī	DOC:	1E35-	65-1103	•		
			Balle	stra						SUI	LPHUREX GH/F	Size: In	Thk:	mm	Temp:	°C	Pres: BAR	Co	orr: mm
Mark	S1	S2		T1	T2		Len mm	Otv	Um	Pip. class	Component					Gen. Bolt	Weight (Kg) A	s.blv	Branch
1433	1/2	0	In	2,77		mm	,00	7,00		205	Pipe ASME B36.10 PL Seamless API 51	GR. B					8,86		
3107	1/2	0	In			mm	,00	4,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	I A 10	5 G 61			6,80		
467	1	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25)	0 AAl	RH) For	ged	5192	0,80		
1749	1	1/2	In	3,38	2,77	mm	,00	1,00	NR	205	Reducer Concentric ASME B16.9 BE W WPB	rought S	ASTM	I A 234	GR.		0,14		
4687	1/2	0	In			mm	,00	3,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTN	И А 1	05			0,84		
5192	1/2	0	In			mm	70,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/	2.2 TAI	B. 9		0,44		
661	1	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH)	_ B5C	•					

M Erection

AREA A

A

SZ1

PIPING BOM SABIZ

62111 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 62111 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

17,88

17,88

Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.12.05		DOC:	1E35-65-1103		
Ballestra	SULPHUREX GH/F	Size: In Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As	s.bly Bra	nch
1433	1/2	0	In	2,77	mm	,00	6,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		7,59		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
	·		•						N	M Erection	Total Kg:	9,29		
SZ1	PIPING	BOM SAI	BIZ		62112	- 0			A A	AREA A 1/1	TOTAL Kg:	9,29		

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 62112 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allesti	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/2	010 10.12	2.06							DOC:	1E35-	65-1103		•	
			Bal	lestra						SUI	LPHUREX GH/F	Size: In T	nk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		Т1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	7,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				8,86		
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM A	105 G 61			1,70		
467	1	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 A	ARH) For	ged	5192	0,80		
1749	1	1/2	In	3,38	2,77	mm	,00	1,00	NR	205	Reducer Concentric ASME B16.9 BE W WPB	rought S AS	ГМ А 234	GR.		0,14		
5192	1/2	0	In			mm	70,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UN	C/2.2 TAI	3.9		0,44		

M Erection

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

1 / 1

Total Kg:

TOTAL Kg:

11,94

11,94

,00

mm

62113 - 0

1,00 NR 205

A

661

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 62113 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Pluid System
Dang, fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

		В	allestra	a					S	KETCH	ES MATERIAL LIST		PR	OJ:	1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA	.5		16/11/2	2010 10.12	.06							DO	C:	1E35-65-	-1103	•	•	
			Balle	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm		<b>Temp:</b> °C		Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Ger	n. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	7,00	m	205	Pipe ASME B36.10 PL Seamless API 5I	GR. B					8,86		
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	I A 105 G	61			3,40		
467	1	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷25)	0 AARH)	Forg	ged 519	92	0,80		
1749	1	1/2	In	3,38	2,77	mm	,00	1,00	NR	205	Reducer Concentric ASME B16.9 BE W WPB	rought S	ASTM A	234 C	GR.		0,14		
4687	1/2	0	In			mm	,00	3,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTN	A A 105				0,84		
5192	1/2	0	In			mm	70,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.2	TAB	. 9		0,44		
661	1	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH)	_B5C						

M Erection

AREA A

A

SZ1

PIPING BOM SABIZ

62114 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62114 - 0
Plant SZ1 Piping Class 205
Pipin

14,48

14,48

Total Kg:

		В	Ballesti	a					S	KETCH	IES MATERIAL LIST		PF	<b>ROJ:</b> 1	E35		REV:	0 1	6/11/2010
	PUMA	.5		16/11/2	010 10.1	12.06							DO	<b>OC:</b> 1	E35-65-1103				
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mr	n <b>T</b>	emp: °C		Pres: BAR		Corr: mm
								1		_									
Mark	S1	<b>S2</b>		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bo	lt	Weight (F	(g) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B					6,3	33	
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD	-F NPT 20	00 LB Fo	rged			0,3	30	
		,		-						'	BRASS NICKEL PLATED S 87								
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 10	05				0,3	38	
			·			•				N	1 Erection				Total F	G:	7,	01	

TOTAL Kg:

7,01

AREA A

Α

PIPING BOM SABIZ

62115 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62115 - 0
Plant SZ1 Piping Class 203
Pipin

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35	REV:	0 16	5/11/2010
	PUMA	5		16/11/20	010 10.12	.06							DOC:	1E35-65-1103	•	•	
			Ball	lestra						SU	LPHUREX GH/F	Size: In Tl	nk: mm	Temp: °C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	ı Ot	Um	Pip. class	Component			Gen. Bol	t Weight (1	(Xg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	1		203	Pipe ASME B36.10 PL Seamless API 51	L GR. B				80	
3116	1/2	0	In			mm	,00	1,0	) NR	203	Valve Globe ST.46004/3 THRD-F NPT 51	200 LB Forg	ed BRONZ	ZE D	0,	70	
1056	1/2	0	In			mm	,00	1,0	) NR	203	Coupling TA 50.7/2 THRD-F NPT 300	0# Forged AS	TM A 105		0,	12	
1289	1/2	0	In			mm	,00	1,0	) NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105			0,	38	
	172   0						N	A Erection			Total K	ig: 5					
SZ1	PIPING BOM SABIZ 62116 - 0				- 0			A A	AREA A 1 /	1		TOTAL K	ig: 5,				

PI_62.6B	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 62116 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

			1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.12.06		DOC:	1E35-65-1103		
Ballestra	SULPHUREX GH/F Size	ze: In Thk: mm	Temp: °C Pr	es: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As	s.bly	Branch
1433	1/2	0	In	2,77	mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		6,33		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
		·	•						N	M Erection	Total Kg:	8,03		
SZ1	PIPING	BOM SA	BIZ		62117	- 0			A A	AREA A 1/1	TOTAL Kg:	8,03		

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 62117 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

PUMA5 16/11/2010 10.12.07 DOC: 1E35-65-1103		
10.12.10.1 10.12.10.1 BOC. 12.55-05-1105		
Ballestra SULPHUREX GH/F Size: In Thk: mm Temp: °C Pr	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.b	ly Branch
1433	1/2	0	In	2,77	mm	,00	4,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		5,06	
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70	
	·	·	•	·					N	1 Erection	Total Kg:	6,76	
SZ1	PIPING	BOM SA	BIZ		62118	- 0			A A	AREA A 1/1	TOTAL Kg:	6,76	

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specificatio	n SP.1406/2-SP.1407/2
<b>Line</b> 62118 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	Ballestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	5		16/11/20	010 10.12	.07							DOC:	1E35	-65-1103	•	•
			Ball	estra						SUI	LPHUREX GH/F	Size: In 7	Γhk: mm	Temp:	°C	Pres: BAR	Corr: mm
	94			m4	777.0					<b>.</b>					]a	**********	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As	s.bly Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 51	L GR. B				6,33	
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM A	A 105 G 61			3,40	
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTM	A 105			0,28	

				M Erection		Total Kg:	10,01
SZ1	PIPING ROM SARIZ	62119 - 0	A	AREA A	1/1	TOTAL Kg.	10.01

Plant SZ1 PIPING BOM SABIZ
Line 62119 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Plind System
Plant SZ1 PIPING BOM SABIZ
System
Plant SZ1 PIPING BOM SABIZ
Fluid System
Plant SZ1 PIPING BOM SABIZ
System
System
Plant SZ1 PIPING BOM SABIZ
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Plant SZ1 PIPING BOM SABIZ
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Plant SZ1 PIPING BOM SABIZ
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System
Plant SZ1 PIPING BOM SABIZ
System System System
Plant SZ1 PIPING BOM SABIZ
System Syst

		Ba	llestr	a					5	SKETCI	HES MATERIAL LIST		PF	OJ:	1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA	5		16/11/20	010 10.12	.07							DO	OC:	1E35-	65-1103			
			Balle	estra						SU	LPHUREX GH/F	Size: In	Thk: mr	n	Temp:	°C	Pres: BAR	С	orr: mm
									,	_									
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B					6,33		
3107	1/2	0	In			mm	,00	1,00	NF	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTN	1 A 105 C	G 61			1,70		
1011	1/2	1/4	In	2,77	2,24	mm	,00	1,00	NF	205	Reducing Insert M/F TA 50.6/1 SW-F x	PL 3000#	Forged	ASTM	1 A		0,06		
			,				*				105 TYPE 12					'			
											M Erection					Total Kg:	8,09		

AREA A

Α

SZ1

PIPING BOM SABIZ

62120 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62120 - 0
Dang. fluid type
Area AREA A
Sketch Sht 1/1
System

System

De pres
Op tem

Area Coating
Sketch Sht 1/1
Sometric code
Page 1
Zones

TOTAL Kg:

8,09

Ballestra	SKETCHES MATERIAL LIST	PROJ	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.12.08		DOC:	1E35-65-1103		
Ballestra	SULPHUREX GH/F	Size: In Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) A	s.bly	Branch
1433	1/2	0	In	2,77	mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		6,33		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
	·		•						N	1 Erection	Total Kg:	8,03		
SZ1	PIPING	1/2   0   In     mm   ,00   1,00   NR   205   PIPING BOM SABIZ   62121 - 0   A		A A	AREA A 1/1	TOTAL Kg:	8,03							

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 62121 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	ra					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	.08							DOC:	1E35-6	55-1103			
			Ball	lestra						SUL	PHUREX GH/F	Size: In	Thk: mm	Temp: °	°C	Pres: BAR	C	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	6,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				7,59		
		-	_															_

1433	1/2	0	In	2,77		mm	,00	6,00	m	205	Pipe ASME B36.10	PL Seamless API 5L GR. B		7,59	
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.4627	0/3 SW-F 800# Forged ASTM A 105 G 61		3,40	
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.	6/1 SW-F 3000# Forged ASTM A 105		0,28	
											M Erection		Total Kg:	11,27	)
SZ1	PIPING B	OM SAI	BIZ		(	62122 -	- 0			A	AREA A	1/1	TOTAL Kg:	11,27	i

Plant SZ1 PIPING BOM SABIZ
Line 62122 - 0
Dang. fluid type
Area AREA A
Sketch Sht 1/1

Zones

Piping Class 205
Welding specification SP.1406/2-SP.1407/2
System
Depres
Op tem
Isometric code
Page 1

Zones

		В	allestr	a					S	KETCH	ES MATERIAL LIST		P	ROJ:	1E35		<b>REV:</b> 0	16/	11/2010
	PUMA	5		16/11/20	10 10.12.	.08							D	OC:	1E35-	-65-1103	•		
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: n	ım	Temp:	°C	Pres: BAR	Co	orr: mm
Mark	S1         S2         T1         T2           1         0         In         3,38         mm						Len mm	Qty	Um	Pip. class	Component					Gen. Bolt	Weight (Kg) As	s.bly	Branch
1435	1	0	In	3,38		mm	,00	2,00	m	203	Pipe ASME B36.10 PL Seamless API 5I	GR. B					5,00		
467	1	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	) AARI	H) Forg	ged	5192	0,80		
156	1	0	In	3,38		mm	,00	1,00	NR	203	45° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought	t S AS	ГМ А 2	234		0,07		
324	1	0	In	3,38		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought	t S AS	ГМ А 2	234		0,14		
5192	1/2	0	In			mm	70,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.	2 TAB	3. 9		0,44		
661	1	0	In			mm	,00	1,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5C						

M Erection

AREA A

A

62123 - 0

PIPING BOM SABIZ

SZ1

Plant SZ1 PIPING BOM SABIZ
Line 62123 - 0
Fluid
System
Dang, fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

Total Kg:

TOTAL Kg:

6,45

6,45

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35	i	<b>REV:</b> 0	16/	/11/2010
	PUMA	5		16/11/20	010 10.12	2.08							DOC:	1E35	5-65-1103		•	
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	C	orr: mm
										1								
Mark	S1	<b>S2</b>		T1	T2		Len mn	ı Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5I	GR. B				6,33		
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD-	F NPT 20	0 LB Forge	i		0,30		
				_							BRASS NICKEL PLATED S 87				,			
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 10	)5			0,38		
										N	1 Erection				Total Kg:	7,01		

TOTAL Kg:

7,01

AREA A

Α

SZ1

PIPING BOM SABIZ

62124 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62124 - 0
Dang. fluid type
Area AREA A
Sketch Sht 1/1
System

Sketch Sht 1/1
Sometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PRO	J: 1E35	5	<b>REV:</b> 0	16/11/2010
	PUMA	5		16/11/20	010 10.12	2.09	1						DOC	: 1E35	5-65-1103		
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	o: °C	Pres: BAR	Corr: mm
Mark	S1   S2   T1   T2							Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	ly Branch
1433	1/2	0	In	2,77		mm	,00	6,00	m	205	Pipe ASME B36.10 PL Seamless API 5I	GR. B				7,59	
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	A 105 G 6	1		1,70	
467	1	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	) AARH) F	orged	5192	0,80	
1749	1	1/2	In	3,38	2,77	mm	,00	1,00	NR	205	Reducer Concentric ASME B16.9 BE W WPB	rought S A	ASTM A 23	4 GR.		0,14	
5192	1/2	0	In			mm	70,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	UNC/2.2 TA	AB. 9		0,44	
661	1	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5C				
										N	1 Erection				Total Kg:	10,67	

A

AREA A

1 / 1

TOTAL Kg:

10,67

62136 - 0

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 62136 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Pluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b>	0 10	6/11/2010
	PUMA	.5		16/11/20	010 10.12	.09							DOC:	1E35-	65-1103			
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR		Corr: mm
Mark	S1 S2 T1 T2 mm					Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg	) As.bly	Branch	
1433	1/2	0	In	2,77		mm	,00	7,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				8,86	5	
3107	1/2	0	In			mm	,00	4,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM	A 105 G 61			6,80	)	
467	1	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB R	F (125÷250	AARH) For	ged	5192	0,80	)	
	·	·									ASTM A 105							
1749	1	1/2	In	3,38	2,77	mm	,00	1,00	NR	205	Reducer Concentric ASME B16.9 BE W	rought S A	STM A 234	GR.		0,14	ļ.	
							-				WPB							
4687	1/2	0	In			mm	,00	3,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTM	I A 105			0,84	l l	
5192	1/2	0	In			mm	70,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAI	3.9		0,44	l l	

M Erection

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

1 / 1

Total Kg:

TOTAL Kg:

17,88

17,88

,00

mm

62137 - 0

1,00 NR 205

A

661

SZ1

0

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 62137 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Plind System

Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Ballestra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV: 0	16/11/2010
PUMA5 16/11/2010 10.12.09			DOC:	1E35-65-1103		
Ballestra	SULPHUREX GH/F	Size: In Th	hk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As	s.bly	Branch
1433	1/2	0	In	2,77	mm	,00	6,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		7,59		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
	·		•	·					N	1 Erection	Total Kg:	9,29		
SZ1	PIPING	BOM SAI	BIZ		62138	- 0			A A	AREA A 1/1	TOTAL Kg:	9,29		

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 62138 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E35	5	<b>REV:</b> 0	16/11/2010
	PUMA	5		16/11/20	010 10.1	2.09							DOC	: 1E35	5-65-1103		
			Balle	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	): °C	Pres: BAR	Corr: mm
										_							
Mark	S1	S2		T1	T2		Len mn	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	ly Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				6,33	
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD-	F NPT 20	00 LB Forge	ed		0,30	
	'					'					BRASS NICKEL PLATED S 87						
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 10	05			0,38	
										N	// Erection				Total Kg:	7,01	

Α

AREA A

PIPING BOM SABIZ

62139 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
<b>Line</b> 62139 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

TOTAL Kg:

7,01

		В	allestr	a					5	SKETCH	IES MATERIAL LIST		PROJ:	1E35		REV:	0	16/11/2010
	PUMA	5		16/11/20	010 10.12	.10							DOC:	1E35-	-65-1103			
			Ball	lestra						SU	LPHUREX GH/F	Size: In T	hk: mm	Temp:	°C	Pres: BAR		Corr: mm
Mark							Len mn	n Qty	Un	Pip. class	Component				Gen. Bolt	Weight (K	(g) As.b	ly Branch
1433	1/2	0	In	2,77		mm	,00	3,00	) m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				3,8	30	
3116	1/2	0	In			mm	,00	1,00	) NR	203	Valve Globe ST.46004/3 THRD-F NPT	7 200 LB For	ged BRON	ZE D		0,7	70	
		·			·	•					51							
1056	1/2	0	In			mm	,00	0 1,00	) NR	203	Coupling TA 50.7/2 THRD-F NPT 300	0# Forged A	STM A 105	5		0,1	12	
1289	1/2	0	In			mm	,00	0 1,00	) NR	203	Union TA 50.6/1 SW-F 3000# Forged A	ASTM A 105				0,3	38	
										N	M Erection				Total Kg:	5,		

TOTAL Kg:

5,

AREA A

SZ1

PIPING BOM SABIZ

62140 - 0

PI_62.6A	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 62140 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.10		DOC:	1E35-65-1103		
	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	4,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		5,06	
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70	
	·		•	·					N	M Erection	Total Kg:	6,76	
SZ1	PIPING	BOM SAI	BIZ		62141 -	0			A A	AREA A 1 / 1	TOTAL Kg:	6,76	

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	n SP.1406/2-SP.1407/2
<b>Line</b> 62141 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ	1E35		<b>REV:</b> 0	16/	11/2010
	PUMA	.5		16/11/20	010 10.12	2.10							DOC:	1E35	-65-1103			
	Ballestra							SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR		orr: mm		
Mark	S1	S2		T1	Т2		Len mn	n Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) A	s.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				6,33		
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM	A 105 G 61			3,40		
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTN	1 A 105			0,28		
	*	•			*	•	•			N	1 Erection				Total Kg:	10,01		

SZ1	PIPING BOM SABIZ	62142 - 0	A AREA A	1 / 1	TOTAL Kg: 10,01

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	SP.1406/2-SP.1407/2
<b>Line</b> 62142 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allesti	ra					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	2.10							DOC:	1E35-	65-1103		•	
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 51	L GR. B				6,33		
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM A	A 105 G 61			1,70		
1011	1/2	1/4	In	2,77	2,24	mm	,00	1,00	NR	205	Reducing Insert M/F TA 50.6/1 SW-F x 105 TYPE 12	PL 3000# F	orged ASTI	М А		0,06		

M Erection

AREA A

Α

62143 - 0

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 62143 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

8,09

8,09

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.11		DOC:	1E35-65-1103		
	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	s.bly	Branch
1433	1/2	0	In	2,77	mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		6,33		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
	·	·	•						N	M Erection	Total Kg:	8,03		
SZ1	PIPING	BOM SA	BIZ		62144	- 0			A A	AREA A 1/1	TOTAL Kg:	8,03		

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 62144 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		Ba	llestra	ì					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		REV:	) 16	5/11/2010
	PUMA5			16/11/20	10 10.12.	.11							DOC:	1E35-	65-1103			
			Balle	stra						SUI	PHUREX 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	6,0	) m	205	Pipe ASME B36.10 PL Seamless API 51	L GR. B				7,59		
3107	1/2	0	In			mm	,00	2,0	) NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	A 105 G 61			3,40		
4687	1/2	0	In			mm	,00	1,0	) NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	rged ASTM	A 105			0,28		

				M Erection		Total Kg:	: 11,27
SZ1	PIPING BOM SABIZ	62145 - 0	A	AREA A	1/1	TOTAL Kg:	: 11,27

Plant SZ1 PIPING BOM SABIZ Piping Class 205 Welding specification SP.1406/2-SP.1407/2 Line 62145 - 0 Fluid System Dang. fluid type Coating De pres Op tem Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

		В	allestr	ra					S	KETCH	ES MATERIAL LIST		]	PROJ:	1E35		<b>REV:</b> 0	16	7/11/2010
	PUMA	.5		16/11/2	010 10.12	2.11	1						j	DOC:	1E35-	-65-1103	•		
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk:	mm	Temp:	°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		Т1	Т2		Len mm	Qty	Um	Pip. class	Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	2,00	m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B					5,00		
467	1	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	) AAI	RH) For	ged	5192	0,80		
156	1	0	In	3,38		mm	,00	1,00	NR	203	45° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	t S AS	STM A	234		0,07		
324	1	0	In	3,38		mm	,00	2,00	NR	203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	t S AS	STM A	234		0,27		
5192	1/2	0	In			mm	70,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASM	E B18.2.1 T	UNC/	2.2 TAE	3.9		0,44		

M Erection

AREA A

1 / 1

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

ASTM A 193 B7/ASTM A 194 GR.2H

mm

62146 - 0

,00

661

SZ1

0

PIPING BOM SABIZ

In

1,00 NR 203

A

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 62146 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

6,58

6,58

Total Kg:

		F	Ballestı	ra					S	SKETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	<b>1</b> 5		16/11/2	010 10.1	2.11	1						DOC:	1E35	-65-1103	•		
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00,	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sear Galvanized	mless API	5L GR. B			3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD-BRASS NICKEL PLATED S 87	F NPT 20	) LB Forgeo	Į		0,30		
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forged	ASTM A 1	05		0,32		
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forged	ASTM A 1	05		0,80		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# I Galvanized	Forged AS	ГМ А 105			0,30		
										N	M Erection				Total Kg:	5,52		

AREA A

1 / 1

SZ1

PIPING BOM SABIZ

62150 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62150 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

5,52

Ballestra									SKETCHES MATERIAL LIST PROJ: 1E35								16	5/11/2010
PUMA5 16/11/2010 10.12.12							1						DOC	1E35	5-65-1103	•		
			Bal	lestra						SU	LPHUREX 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
1493	1/2	0	In	2,77		mm	,00	4,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			5,06		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forge	d		0,30		
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forged	ASTM A	.05		0,32		
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forged	ASTM A	.05		1,20		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# I Galvanized	Forged AS	TM A 105			0,30		
										N	M Erection				Total Kg:	7,18		

AREA A

1 / 1

SZ1

PIPING BOM SABIZ

62151 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62151 - 0
Fluid
System
Dang, fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

7,18

	Ballestr	a				SKETCHES MATERIAL LIST PROJ: 1E									<b>REV:</b> 0	16/11/2010		
PUMA5 16/11/2010 10.12.12													DC	OC:	1E35-65-1	103		
	Ball	estra						SU	LPHUREX GH/F	Size: In	Size: In Thk: mm Temp				Pres: BAR	Corr: mm		
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen	. Bolt	Weight (Kg) As.bl	y Branch
1493	1/2	0	In	2,77		mm	,00,	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR.	В			6,33	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Fo	rged			0,30	
84	1/2	0	In			mm	,00	2,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forgeo	l ASTM	A 105	j		0,64	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forgeo	l ASTM	A 105	j		1,20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 10	05			0,30	
										N	M Erection				Tot	tal Kg:	8,77	

AREA A

1 / 1

SZ1

PIPING BOM SABIZ

62152 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62152 - 0
Fluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

8,77

Ballestra									SKETCHES MATERIAL LIST PROJ: 1E35								16	/11/2010
PUMA5 16/11/2010 10.12.12							1						DOC:	1E35	-65-1103	•		
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00,	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sear Galvanized	mless API	5L GR. B			3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	) LB Forgeo			0,30		
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forged	ASTM A 1	05		0,32		
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forged	ASTM A 1	05		0,80		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# I Galvanized	Forged AS	ΓM A 105			0,30		
										N	// Erection				Total Kg:	5,52		

AREA A

1 / 1

SZ1

PIPING BOM SABIZ

62153 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62153 - 0
Plant SZ1 Piping Class 202
Pipin

5,52

		В	Ballesti	ra						SKETCH	HES MATERIAL LIST		I	PROJ:	1E35	REV:	0 1	6/11/2010
	PUMA	.5		16/11/2	010 10.12	.12							Ī	OC:	1E35-65-1103	•		
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk:	mm	Temp: °C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mm	ı Qty	Ur	n Pip. class	Component				Gen. Bolt	Weight (K	g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00		_	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	ımless API	5L GI	R. B		3,8	30	
2828	1/2	0	In			mm	,00	1,00	) NI	R 202	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	-F NPT 20	00 LB	Forged		0,3	80	
252	1/2	0	In			mm	,00	2,00	) NI	R 202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	d AST	M A 10	5	0,8	80	
1275	1/2	0	In			mm	,00	1,00	) NI	R 202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	STM A	105		0,3	80	
										1	M Erection				Total Kg	5,2	2	

TOTAL Kg:

5,2

AREA A

A

PIPING BOM SABIZ

62154 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62154 - 0
Fluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
System
Pepes
Op tem
Area Coating
Isometric code
Page 1
Zones

		I	Ballestr	a						SKETCH	IES MATERIAL LIST		PROJ	: 1E35	i	<b>REV:</b> 0	16/11/2010
	PUMA	<b>1</b> 5		16/11/20	010 10.1	2.13							DOC:	1E35	5-65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.bl	y Branch
1493	1/2	0	In	2,77		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			6,33	
2828	1/2	0	In			mm	,00	1,00	NF	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forge	i		0,30	
84	1/2	0	In			mm	,00	1,00	NF	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	I ASTM A	05		0,32	
252	1/2	0	In			mm	,00	3,00	NF	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	I ASTM A	05		1,20	
1275	1/2	0	In			mm	,00	1,00	NF	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
										N	// Erection				Total Kg:	8,45	

Α

AREA A

1 / 1

SZ1

PIPING BOM SABIZ

62155 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62155 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

8,45

		I	Ballestr	a					5	SKETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3	35	REV:	0	16/11/2010
	PUMA	15		16/11/2	010 10.1	2.13	1						DO	: 1E3	35-65-1103	•		
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Ten	np: °C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (I	Kg) As.bl	y Branch
1493	1/2	0	In	2,77		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			6,	33	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forg	ed		0,	30	
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forgeo	l ASTM A	105		0,	32	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forgeo	l ASTM A	105		1,	20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 10:			0,	30	
										N	// Erection				Total Kg:	8,	45	

TOTAL Kg:

8,45

AREA A

Α

SZ1

PIPING BOM SABIZ

62156 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	1
<b>Line</b> 62156 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	SKETCE	IES MATERIAL LIST		PR	OJ:	1E35	REV: 0	16	/11/2010
	PUMA	.5		16/11/2	010 10.12	.13	1						DO	C:	1E35-65-1103			
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm		Temp: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	3,00		202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. I	3		3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	00 LB For	ged		0,30		
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	d ASTM	A 105	5	0,80		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	STM A 10	5		0,30		
										N	/ Erection				Total Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

PIPING BOM SABIZ

62157 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62157 - 0
Fluid
System
Dang, fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestra	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	.13							DOC:	1E35-	65-1103			
			Balle	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	С	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	3,00	_	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless AP	5L GR. B			3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	F NPT 20	00 LB Forged	-		0,30		
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	d ASTM A 10	)5		0,80		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	STM A 105			0,30		
										N	M Erection				Total Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

62158 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62158 - 0
Dang. fluid type
Area AREA A
Sketch Sht 1/1
System
Page 1
Zones
Welding specification
System
Depres
Op tem
Isometric code
Page 1

		F	Ballesti	ra					S	KETCH	IES MATERIAL LIST		P	ROJ:	1E35	REV:	0 1	16/11/2010
	PUMA	.5		16/11/2	010 10.12	.14	1						Ī	OC:	1E35-65-1103	•		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk:	nm	Temp: °C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (F	(g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GI	R. B		3,	80	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	00 LB 1	Forged		0,	30	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	l AST	M A 10	5	0,	80	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A	105		0,	30	
										N	1 Erection				Total Kg:	5,	2	

TOTAL Kg:

5,2

AREA A

A

PIPING BOM SABIZ

62159 - 0

Plant SZ1 PIPING BOM SABIZ
Line 62159 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b>	0 1	6/11/2010
	PUMA5	5		16/11/20	10 10.12.	.14							DOC:	1E35-65	5-1103			
			Ball	lestra						SU	PHUREX GH/F	Size: In	Thk: mm	<b>Temp:</b> °C		Pres: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Ge	en. Bolt	Weight (Kg	() As.bly	Branch
1539	2+1/2	0	In	2 11		mm	00	62 00	m	216	Pine ASME B36 19 PLER WASTM	Δ 312 TP 3	16			233 35	:	

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1539	2+1/2	0	In	2,11	mm	,00	62,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316		233,35	
2873	2+1/2	0	In		mm	,00	1,00	NR	216	Valve Ball Full Port ST.46588/2 LUG 150 LB RF (125÷250 AARH) Cast ASTM A 351 CF8 S 125	5384	10,41	
452	2+1/2	0	In		mm	,00	2,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized	5136	7,20	
351	2+1/2	0	In	2,11	mm	,00	8,00	NR	216	90° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403 GR. WP316		4,31	
1232	2+1/2	0	In	2,11	mm	,00	2,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR. WP316 Type A		0,65	
5136	5/8	0	In		mm	100,00	8,00	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		1,84	
716	2+1/2	0	In		mm	,00	3,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F			
5384	5/8	0	In		mm	40,00	16,00	NR	216	Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7 Galvanized		2,40	
	'			,		•			N	M Erection	Total Kg:	260,15	
SZ1	PIPING I	OM SA	BIZ		63001 -	0			A A	AREA A 1/1	TOTAL Kg:	260,15	

KV_63.7	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	on SP.1406/2-SP.1408/3
	<b>Line</b> 63001 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			_

		I	Ballestı	ra					S	KETCH	ES MATERIAL LIST		PROJ	: 1E35	5	<b>REV:</b> 0	16	/11/2010
	PUMA	A5		16/11/20	010 10.12	.14	1						DOC:	1E35	5-65-1103	<u> </u>		•
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	): °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1541	4	0	In	2,11		mm	,00	3,50	m	216	Pipe ASME B36.19 PL E.R.W. ASTM	312 TP 3	316			20,85		
454	4	0	In			mm	,00	3,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face S	Smooth Forge	ed	5138	16,80		
185	4	0	In	2,11		mm	,00	1,00	NR	216	45° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrough	t W ASTM	A 403		0,69		
1234	4	0	In	2,11		mm	,00	3,00	NR	216	Stub-End MSS SP-43 FLG x BE Wroug WP316 Type A	ht W AST	M A 403 GR			1,87		
5138	5/8	0	In			mm	110,00	32,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/A194 2H Galvanized	E B18.2.1	UNC/2.2 TA	B. 9		8,00		
718	4	0	In			mm	.00	4,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH)	B5F					

M Erection

AREA A

A

63002 - 0

PIPING BOM SABIZ

SZ1

KV\_63.19A GC\_33 - 4" PZ.1 Piping Class 216 Welding specification SP.1406/2-SP.1408/3 Plant SZ1 PIPING BOM SABIZ Line 63002 - 0 Fluid System Dang. fluid type Coating De pres Op tem Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

Total Kg:

TOTAL Kg:

48,21

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.14			DOC:	1E35-65-1103		
	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	12,00	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		65,25	
2843	2	0	In		mm	,00	1,00	NR	212	Valve Ball Full Port ST.46590/3 LUG 150 LB RF (125÷250 AARH)	5376	10,50	
	'									Forged ASTM A 105 S 127			
470	2	0	In		mm	,00	2,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5199	4,40	
	,		,							ASTM A 105	•		
159	2	0	In	3,91	mm	,00	2,00	NR	212	45° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,63	
										GR. WPB			
327	2	0	In	3,91	mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		1,33	
						<u> </u>				GR. WPB			
5199	5/8	0	In		mm	85,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		0,84	
	ı	1	1	1	1					ASTM A 193 B7/ASTM A 194 GR.2H	,	l l	
696	2	0	In		mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
5376	5/8	0	In		mm	40,00	16,00	NR	212	Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7		2,40	
		1	,		1	·		•	N	M Erection	Total Kg:	85,34	1
SZ1	PIPING	BOM SA	ABIZ		63003	- 0			A A	AREA A 1/1	TOTAL Kg:	85,34	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63003 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allesti	ra					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3	5	<b>REV:</b> 0	16/	11/2010
	PUMA	<b>\</b> 5		16/11/20	010 10.12	2.14	1						DOC	: 1E3	5-65-1103	•	"	
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Tem	p: °C	Pres: BAR	C	orr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As	s.bly	Branch
1543	6	0	In	2,77		mm	,00	16,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A	A 312 TP 3	16			184,60		
456	6	0	In			mm	,00	2,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB I ASTM A 105 Galvanized	Flat Face S	mooth For	ged	5147	15,00		
187	6	0	In	2,77		mm	,00	1,00	NR	216	45° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrough	t W ASTM	A 403		2,03		
355	6	0	In	2,77		mm	,00	4,00	NR	216	90° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrough	t W ASTM	A 403		16,17		
1236	6	0	In	2,77		mm	,00	2,00	NR	216	Stub-End MSS SP-43 FLG x BE Wroug WP316 Type A	ht W ASTI	M A 403 G	R.		2,66		
5147	3/4	0	In			mm	115,00	16,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/A194 2H Galvanized	E B18.2.1 U	JNC/2.2 T	AB. 9		14,40		

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5F

1 / 1

,00

2,00 NR 216

Α

mm

63004 - 0

720

SZ1

0

PIPING BOM SABIZ

KV_63.18B	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	on SP.1406/2-SP.1408/3
	<b>Line</b> 63004 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Total Kg:

TOTAL Kg:

234,85

Ball	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.15			DOC:	1E35-65-1103		
	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
1539	2+1/2	0	In	2,11	mm	,00	56,00			Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316		210,77	
2873	2+1/2	0	In		mm	,00	1,00	NR	216	Valve Ball Full Port ST.46588/2 LUG 150 LB RF (125÷250 AARH)	5384	10,41	
										Cast ASTM A 351 CF8 S 125			
452	2+1/2	0	In		mm	,00	4,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged	5136	14,40	
						<del>-</del>		-		ASTM A 105 Galvanized			
351	2+1/2	0	In	2,11	mm	,00	7,00	NR	216	90° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403		3,77	
										GR. WP316		'	
1232	2+1/2	0	In	2,11	mm	,00	4,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR.		1,29	
	<u>'</u>								'	WP316 Type A		'	
5136	5/8	0	In		mm	100,00	12,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		2,76	
	, , , , , , , , , , , , , , , , , , ,							<u>'</u>		ASTM A 193 B7/A194 2H Galvanized	'		
716	2+1/2	0	In		mm	,00	4,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F			
5384	5/8	0	In		mm	40,00	16,00	NR	216	Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7 Galvanized		2,40	
	,			,					N	M Erection	Total Kg:	245,79	
SZ1	PIPING I	OM SA	BIZ.		63005 -	. 0			Α /	AREA A 1/1	TOTAL Kg:	245,79	

KV_63.8	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	n SP.1406/2-SP.1408/3
	<b>Line</b> 63005 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allesti	ra					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	<b>A</b> 5		16/11/20	010 10.12	2.15							DOC:	1E35	-65-1103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In Th	k: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.k	ly Branch
1543	6	0	In	2,77		mm	,00	16,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM	A 312 TP 316				184,60	
456	6	0	In			mm	,00	3,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face Smo	oth Forge	i	5147	22,50	
187	6	0	In	2,77		mm	,00	1,00	NR	216	45° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrought W	ASTM A	403		2,03	
355	6	0	In	2,77		mm	,00	4,00	NR	216	90° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrought W	ASTM A	403		16,17	
1236	6	0	In	2,77		mm	,00	3,00	NR	216	Stub-End MSS SP-43 FLG x BE Wroug WP316 Type A	ht W ASTM A	403 GR.			3,99	

AREA A

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

1/1

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5F

ASTM A 193 B7/A194 2H Galvanized

32,00 NR 216

4,00 NR 216

A

115,00

,00

mm

mm

63006 - 0

5147

720

SZ1

3/4

6

0

0

PIPING BOM SABIZ

In

KV_63.18A	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	SP.1406/2-SP.1408/3
6"- GC_33 PZ.1	<b>Line</b> 63006 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

28,80

258,08

258,08

Total Kg:

Bal	lestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.15		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temn• °C	Pres. BAR	Corr. mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	s Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1454	4	0	In	3,18	mm	,00	60,00	_		Pipe ASME B36.10 PL E.R.W. API 5L GR. B		522,83	
1541	4	0	In	2,11	mm	,00	1,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316		5,96	
5056	4	0	In		mm	,00	1,00	NR	212	Valve Butterfly With Gasket ST.46856/0 WAFER 150 LB RF (125÷250 AARH) Cast DUCTILE IRON B 85	5210	6,70	
454	4	0	In		mm	,00	1,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized	5138	5,60	
473	4	0	In		mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5201	5,60	
298	4	0	In	3,18	mm	,00	8,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		16,54	
1234	4	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		0,62	
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 ASTM A 193 B7/ASTM A 194 GR.2H		-0,92	
5210	5/8	0	In		mm	145,00	8,00	NR	212	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		2,40	
5138	5/8	0	In		mm	110,00	8,00	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		2,00	
718	4	0	In		mm	,00	1,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F			
		•	'			•		_		M Erection	Total Kg:	567,33	
SZ1	PIPING	BOM SA	ABIZ		63007	. 0			A	AREA A 1/1	TOTAL Kg:	567,33	

KV_63.10	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	SP.1406/2-SP.1408/3
	<b>Line</b> 63007 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a				SKETCHES MATERIAL LIST PROJ: 1E3					1E35		<b>REV:</b> 0	16	5/11/2010	
	PUMA	15		16/11/20	010 10.12	2.15							DOC:	1E35-6	55-1103			
			Ball	lestra						SUI	LPHUREX GH/F	Size: In Thk	c: mm	Temp: °	С	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			(	Gen. Bolt	Weight (Kg)	As.bly	Branch
1541	4	0	In	2,11		mm	,00	3,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM	A 312 TP 316				17,87		
454	4	0	In			mm	,00	2,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face Smoo	th Forgeo	d 5	5138	11,20		
185	4	0	In	2,11		mm	,00	1,00	NR	216	45° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrought W	ASTM A	403		0,69		
1234	4	0	In	2,11		mm	,00	2,00	NR	216	Stub-End MSS SP-43 FLG x BE Wroug WP316 Type A	ht W ASTM A	403 GR.			1,25		

AREA A

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

1 / 1

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5F

ASTM A 193 B7/A194 2H Galvanized

16,00 NR 216

2,00 NR 216

A

mm

mm

63008 - 0

110,00

,00

5138

718

SZ1

5/8

0

PIPING BOM SABIZ

In

KV_63.19B	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	on SP.1406/2-SP.1408/3
	<b>Line</b> 63008 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page
	Zones	Sector Suc 1/1	Isolicule code	

4,00

35,01

35,01

Total Kg:

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	16/11/2010
PUMA5	16/11/2010 10.12.16			DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	Corr: mm
		<u>.                                      </u>					

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	60,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316		276,47	
453	3	0	In		mm	,00	4,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged	5137	16,40	
						_				ASTM A 105 Galvanized			
352	3	0	In	2,11	mm	,00	9,00	NR	216	90° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 40	3	7,17	
		'						_		GR. WP316		<u>'</u>	
1233	3	0	In	2,11	mm	,00	4,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR.		1,60	
			'							WP316 Type A		-	
5137	5/8	0	In		mm	105,00	12,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		2,88	
	ı		1			_				ASTM A 193 B7/A194 2H Galvanized			
717	3	0	In		mm	,00	3,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F			
	·	•			,				N	M Erection	Total Kg:	304,52	
SZ1	PIPING	BOM SA	BIZ		63009	- 0			A A	AREA A 1/1	TOTAL Kg:	304,52	

KV_63.6	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	SP.1406/2-SP.1408/3
	<b>Line</b> 63009 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestra	a					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35	5	<b>REV:</b> 0	16	5/11/2010
	PUMA5			16/11/2	010 10.12.1	16							DOC:	1E35	5-65-1103			
			Balle	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	): °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1539	2+1/2	0	In	2,11	1	mm	,00	18,00		216	Pipe ASME B36.19 PL E.R.W. ASTM	A 312 TP 3	316			67,75	<u> </u>	
452	2+1/2	0	In		1	mm	,00	3,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face S	Smooth Forge	ed	5136	10,80		
183	2+1/2	0	In	2,11	1	mm	,00	2,00	NR	216	45° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrough	t W ASTM A	A 403		0,52		
351	2+1/2	0	In	2,11	1	mm	,00	4,00	NR	216	90° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrough	t W ASTM A	A 403		2,15		
1232	2+1/2	0	In	2,11	1	mm	,00,	3,00	NR	216	Stub-End MSS SP-43 FLG x BE Wroug WP316 Type A	ht W AST	M A 403 GR			0,97		
5136	5/8	0	In		1	mm	100,00	12,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/A194 2H Galvanized	E B18.2.1	UNC/2.2 TA	B. 9		2,76		
716	2+1/2	0	In		1	mm	,00	3,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷25	) AARH) _	_ B5F					

1 / 1

AREA A

Α

SZ1

PIPING BOM SABIZ

63010 - 0

KV_63.7	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	on SP.1406/2-SP.1408/3
	<b>Line</b> 63010 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

84,94

84,94

Total Kg:

		E	Ballesti	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	010 10.12	2.16							DOC:	1E35-6	65-1103			•
			Bal	lestra						SUI	LPHUREX GH/F	Size: In T	hk: mm	Temp: °	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,50	m	212	Pipe ASME B36.10 PL Seamless API 5L	GR. B				0,63		
1438	2	0	In	3,91		mm	,00	9,00	m	212	Pipe ASME B36.10 PL Seamless API 5L	GR. B				48,93		
470	2	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF ASTM A 105	(125÷250 A	AARH) For	ged 5	5199	2,20		
159	2	0	In	3,91		mm	,00	1,00	NR	212	45° Elbow Long Radius ASME B16.9 BE GR. WPB	Wrought S	ASTM A	234		0,31		
327	2	0	In	3,91		mm	,00	6,00	NR	212	90° Elbow Long Radius ASME B16.9 BE GR. WPB	Wrought S	ASTM A	234		3,99		
5199	5/8	0	In			mm	85,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/ASTM A 194 GR.2H	B18.2.1 UN	NC/2.2 TAE	3.9		0,84		
696	2	0	In			mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250	AARH) _ I	B5B					
		•		·	*		<u> </u>			N	1 Erection				Total Kg:	56,91		

A

AREA A

1 / 1

TOTAL Kg:

56,91

SZ1

PIPING BOM SABIZ

63011 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification is	SP.1406/2-SP.1407/3
<b>Line</b> 63011 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

			Ballest	ra					S	KETCH	IES MATERIAL LIST		PROJ	1E35	5	<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/2	2010 10.1	12.16	1						DOC	1E35	5-65-1103	L L	<u>.4</u>
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	o: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Otro	Tim	Pip. class	Component				Gen. Bolt	Weight (Kg) As.	bly Branch
1532	10	0	In	3,4	12	mm	,00		m	•	Pipe ASME B36.19 PL E.R.W. ASTM	1 212 TD 2	204		Gen. Bon	138,39	ыу Бгансп
4999	1/2	0	In	3,4		mm	,00	•	NR		"Y" Valve Check ST.46360/5 FLG 150			11)	5125	3,06	
4999	1/2	U	111			111111	,00	1,00	INK	213	Forged ASTM A 182 GR. F304 R 92	LD KI (12	3-230 AAN	.П)	3123	3,00	
446	1/2	0	In			mm	,00	1,00	NR	215	Flange Lap-Joint ASME B16.5 150 LB	Flat Face S	mooth Forg	ed	5127	0,40	
		-					7	-			ASTM A 105 Galvanized					-, -	
458	10	0	In			mm	,00	2,00	NR	215	Flange Lap-Joint ASME B16.5 150 LB	Flat Face S	mooth Forg	ed	5158	37,00	
											ASTM A 105 Galvanized						
465	1/2	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB R	F (125÷25)	) AARH) Fo	orged	5191	0,40	
			-					1.00			ASTM A 105						
1207	1/2	0	In	2,77		mm	,00	1,00	NR	215	Stub-End MSS SP-43 FLG x BE Wroug WP304 Type A	ht S ASTN	1 A 403 GR			0,08	
1225	10	0	In	3,4		mm	.00	2.00	NR	215	Stub-End MSS SP-43 FLG x BE Wroug	L+ W/ A CT	M A 402 CI	)		7,29	
1223	10	U	111	3,4		111111	,00	2,00	INIX	213	WP304 Type A	III W ASI.	W A 403 Gr	ζ.		1,29	
5191	1/2	0	In			mm	65,00	2,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASM	E B18.2.1	UNC/2.2 TA	B. 9		0,22	
		- 1					30,00				ASTM A 193 B7/ASTM A 194 GR.2H					*,==	
5125	1/2	0	In			mm	65,00	4,00	NR	215	Stud Bolt + 2 Nuts TA 50.48B/28 ASM	E B18.2.1	UNC/2.2 TA	AB. 9		0,44	
											ASTM A 193 B7/A194 2H Galvanized						
5127	1/2	0	In			mm	75,00	2,00	NR	215	Stud Bolt + 2 Nuts TA 50.48B/28 ASM	E B18.2.1	UNC/2.2 TA	AB. 9		0,24	
									1		ASTM A 193 B7/A194 2H Galvanized						
5158	7/8	0	In			mm	140,00	42,00	NR	215	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI	E B18.2.1	UNC/2.2 TA	AB. 9		26,88	
659	1/2	0	In			mm	.00	1.00	NR	205	ASTM A 193 B7/A194 2H Galvanized Gasket TA 50.5/31 150 LB RF (125÷25)	O A A DIII)	D5C				
710	1/2	0	In						NR		,						
-		0				mm	,00				Gasket TA 50.5/31 150 LB RF (125÷25)						
722	10	0	In			mm	,00	4,00	NR	1	Gasket TA 50.5/31 150 LB RF (125÷25)	) AARH) <sub>.</sub>	_B5F				
										N	M Erection				Total Kg:	214,4	
SZ1	PIPING	BOM S	SABIZ			63012	- 0			A A	AREA A 1 /	1			TOTAL Kg:	214,4	
-																	
KV_63	.11B						Plant SZ1	PIPING B	SOM S	SABIZ	Piping Class 215			W	elding specificati	ion SP.1406/2-SP.140	08/3
	- 10" PZ.	1					Line 63012	2 - 0			Fluid			Sy	stem		
							Dang. fluid	type			Coating			De	pres	Op tem	
							Area AREA	A A			Sketch Sht 1/1		Is	ometric	code		Page 1
1																	

Zones

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.16			DOC:	1E35-65-1103		
	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	12,00	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		65,25	
327	2	0	In	3,91	mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		1,33	
					1					GR WPB		<u> </u>	

				M Erection		Total Kg:	66,58
SZ1	PIPING BOM SABIZ	63014 - 0	A	AREA A	1/1	TOTAL Kg:	66,58

FUNNEL ST.46250/2 Fe360 - 2" N.1pz Plant SZ1 PIPING BOM SABIZ Piping Class 212 Welding specification SP.1406/2-SP.1407/3 Line 63014 - 0 Fluid System Dang. fluid type Op tem Coating De pres Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

		]	Ballesti	a				SKETC	HES MATERIAL LIST		PROJ	: 1E3:	5	<b>REV:</b> 0	16/11/2010
	PUMA	<b>A</b> 5		16/11/2	010 10.12.17	,					DOC:	1E3:	5-65-1103		
			Bal	lestra				SI	ULPHUREX GH/F	Size: In	Thk: mm	Temp	p: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2	Len mm	Otv	Um Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	lv Branch
1532	10	0	In	3.4		m ,00		m 215	Pipe ASME B36.19 PL E.R.W. ASTM	A 312 TP 30	14		3000 2000	138.39	June
4999	1/2	0	In	,	m	m ,00		NR 215	"Y" Valve Check ST.46360/5 FLG 150 Forged ASTM A 182 GR. F304 R 92	LB RF (125	÷250 AAR	H)	5125	3,06	
446	1/2	0	In		m	m ,00	1,00	NR 215	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face St	nooth Forge	ed	5127	0,40	
458	10	0	In		n	m ,00	2,00	NR 215	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face St	nooth Forge	ed	5158	37,00	
465	1/2	0	In		m	m ,00	1,00	NR 205	Flange Slip-On ASME B16.5 150 LB I ASTM A 105	RF (125÷250	AARH) Fo	rged	5191	0,40	
1207	1/2	0	In	2,77	m	m ,00	1,00	NR 215	Stub-End MSS SP-43 FLG x BE Wrou WP304 Type A	ght S ASTM	A 403 GR.			0,08	
1225	10	0	In	3,4	m	m ,00	2,00	NR 215	Stub-End MSS SP-43 FLG x BE Wrou WP304 Type A	ght W ASTN	I A 403 GR			7,29	
5191	1/2	0	In		m	m 65,00	2,00	NR 205	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H		NC/2.2 TA	B. 9		0,22	
5125	1/2	0	In		m	m 65,00	4,00	NR 215	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/A194 2H Galvanized		NC/2.2 TA	B. 9		0,44	
5127	1/2	0	In		m	m 75,00	2,00	NR 215	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/A194 2H Galvanized		NC/2.2 TA	B. 9		0,24	
5158	7/8	0	In		m	m 140,00	42,00	NR 215	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/A194 2H Galvanized		NC/2.2 TA	B. 9		26,88	
659	1/2	0	In		n	m ,00	1,00	NR 205	Gasket TA 50.5/31 150 LB RF (125÷2:		B5C				
710	1/2	0	In		n	m ,00	2,00	NR 215	Gasket TA 50.5/31 150 LB RF (125÷2	50 AARH) _	B5F				
722	10	0	In		m	m ,00	4,00	NR 215	Gasket TA 50.5/31 150 LB RF (125÷2	50 AARH) _	B5F				
	'	ı							M Erection				Total Kg:	214,4	
SZ1	PIPING	BOM S	ABIZ		63	015 - 0		A	AREA A 1	/ 1			TOTAL Kg:	214,4	
KV_63						Plant SZ1	PIPING B	SOM SABIZ	Piping Class 215			W	elding specificat	ion SP.1406/2-SP.1408	3/3
GC_33	- 10" PZ.	1				Line 6301			Fluid			Sy	stem		
						Dang. fluid			Coating				pres	Op tem	
						Area ARE	A A		Sketch Sht 1/1		Iso	ometric	code		Page 1

Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	010 10.12.	.17							DOC:	1E35-65-	1103	•		
			Ball	lestra						SU	LPHUREX GH/F	Size: In Th	k: mm	Temp: °C		Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Ger	n. Bolt	Weight (Kg)	As.bly	Branch
1531	8	0	In	2,77		mm	,00	1,50	m	215	Pipe ASME B36.19 PL E.R.W. ASTM A	312 TP 304				22,62		
457	8	0	In			mm	,00	1,00	NR	215	Flange Lap-Joint ASME B16.5 150 LB I ASTM A 105 Galvanized	Flat Face Smo	oth Forge	d 5150	0	12,60		
1224	8	0	In	2,77		mm	,00	1,00	NR	215	Stub-End MSS SP-43 FLG x BE Wrougl WP304 Type A	nt W ASTM A	403 GR.			2,01		
5150	3/4	0	In			mm	130,00	8,00	NR	215	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/A194 2H Galvanized	E B18.2.1 UN	C/2.2 TAI	3.9		7,68		
721	8	0	In			mm	,00	1,00	NR	215	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _ B	5F					
	-		-	'	1	1	'			N	M Erection			To	tal Kg:	44,9		

A

AREA A

SZ1

PIPING BOM SABIZ

63016 - 0

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 215
 Welding specification SP.1406/2-SP.1408/3

 Line 63016 - 0
 Fluid
 System

 Dang. fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

1 / 1

TOTAL Kg:

		I	Ballest	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	<b>\</b> 5		16/11/20	010 10.1	2.17	1						DOC:	1E35-6	55-1103		<u> </u>	
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Γhk: mm	Temp: °	°C	Pres: BAR	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			(	Gen. Bolt	Weight (Kg)	As.bly	Branch
1530	6	0	In	2,77		mm	,00	2,00	m	215	Pipe ASME B36.19 PL E.R.W. ASTM	A 312 TP 30	4			23,07		
456	6	0	In			mm	,00	2,00	NR	215	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face Sn	nooth Forged	1 5	5147	15,00		
342	6	0	In	2,77		mm	,00	2,00	NR	215	90° Elbow Long Radius ASME B16.9 B GR. WP304	E Wrought	W ASTM A	403		8,08		
1806	8	6	In	2,77	2,77	mm	,00	2,00	NR	215	Reducer Concentric ASME B16.9 BE W WP304	rought W A	STM A 403	GR.		4,52		
1223	6	0	In	2,77		mm	,00	2,00	NR	215	Stub-End MSS SP-43 FLG x BE Wroug WP304 Type A	ht W ASTM	A 403 GR.			2,66		
5147	3/4	0	In			mm	115,00	32,00	NR	215	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/A194 2H Galvanized	E B18.2.1 U	NC/2.2 TAE	3.9		28,80		
720	6	0	In			mm	,00	4,00	NR	215	Gasket TA 50.5/31 150 LB RF (125÷25)	0 AARH) _	B5F					
								M Erection					-	Total Kg:	82,14			

TOTAL Kg:

82,14

AREA A

Α

SZ1

PIPING BOM SABIZ

63017 - 0

GC_33 - 6" PZ.2	Plant SZ1 PIPING BOM SABIZ	Piping Class 215	Welding specification	on SP.1406/2-SP.1408/3
	<b>Line</b> 63017 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Ball	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.17			DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In T	Γhk: 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
1527	3	0	In	2,11		mm	,00	1,00	m	215	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 304		4,61		
1531	8	0	In	2,77		mm	,00	5,00	m	215	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 304		75,39		
2911	8	0	In			mm	,00	1,00	NR	215	Valve Butterfly ST.46439/5 WAFER 150 LB RF (125÷250 AARH)  Cast ASTM A 351 CF8 B 80	5155	21,43		
453	3	0	In			mm	,00	1,00	NR	215	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized	5137	4,10		
457	8	0	In			mm	,00	3,00	NR	215	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized	5150	37,80		
472	3	0	In			mm	,00	1,00	NR	206	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5201	4,10		
343	8	0	In	2,77		mm	,00	3,00	NR	215	90° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403 GR. WP304		21,20		
1220	3	0	In	2,11		mm	,00	1,00	NR	215	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR. WP304 Type A		0,40		
1224	8	0	In	2,77		mm	,00	3,00	NR	215	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR. WP304 Type A		6,02		
5201	5/8	0	In			mm	95,00	2,00	NR	206	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		0,46		
5137	5/8	0	In			mm	105,00	4,00	NR	215	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		
5146	3/4	0	In			mm	110,00	-8,00	NR	215	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		-7,04		
5150	3/4	0	In			mm	130,00	16,00	NR	215	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		15,36		
5155	3/4	0	In			mm	170,00	8,00	NR	215	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized		8,96		
666	3	0	In			mm	,00	1,00	NR	206	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C				$\top$
717	3	0	In			mm	,00	1,00	NR	215	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F				

63Y9	Plant SZ1 PIPING BOM SABIZ	Piping Class 215	Welding specification	SP.1406/2-SP.1408/3
	<b>Line</b> 63018 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>J:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.18		DOC	: 1E35-65-1103		
	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
721	8	0	In		mm	,00	3,00	NR	215	Gasket TA 50.5/31 150	0 LB RF (125÷250 AARH) _ B5F			
									N	1 Erection		Total Kg:	193,74	
SZ1	PIPING	BOM SAE	BIZ		63018	- 0			A A	AREA A	1 / 1	TOTAL Kg:	193,74	

63Y9	Plant SZ1 PIPING BOM SABIZ	Piping Class 215	Welding specification	SP.1406/2-SP.1408/3
	<b>Line</b> 63018 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 2
	Zones			

		В	allestr	a						SKETCH	IES MATERIAL LIST		PRO	<b>)J:</b> 1E	35	<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/20	10 10.12	.18	1						DO	C: 1E	35-65-1103		
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Tei	mp: °C	Pres: BAR	Corr: mm
	-	~					- 1		T						7		
Mark	S1	<b>S2</b>		T1	T2		Len mm	m Qty Um Pip. class Component						Gen. Bolt	Weight (Kg) As.bl	y Branch	
1459	8	0	In	4,78		mm	,00	3,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				75,79	
5059	8	0	In			mm	,00	1,00	) NF	212	Valve Butterfly With Gasket ST.46856/	) WAFER	150 LB R	F	5225	17,90	
		1								1	(125÷250 AARH) Cast DUCTILE IRON	N B 85					
476	8	0	In			mm	,00	4,00	) NF	212	Flange Slip-On ASME B16.5 150 LB R	F (125÷25	0 AARH)	Forged	5216	50,40	
				'			•		_		ASTM A 105					'	
303	8	0	In	4,78		mm	,00	3,00	) NF	R 212	90° Elbow Long Radius ASME B16.9 E	E E.R.W.	ASTM A	234 GR		35,85	

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

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

ASTM A 193 B7/ASTM A 194 GR.2H

702	8 0	In	mm ,00	2,00 NR 2	212	Gasket TA 50.5/31 150 LB RF (125-	÷250 AARH) _ B5B		
						M Erection		Total Kg:	202,98
SZ1	PIPING BOM SA	ABIZ	63020 - 0		A	AREA A	1 / 1	TOTAL Kg:	202,98

110,00

170,00

mm

mm

16,00 NR 212

8,00 NR 212

5216

5225

3/4

3/4

0

Plant SZ1 PIPING BOM SABIZ
Line 63020 - 0
Fluid
System
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

14,08

Ball	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.18		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temn• °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	0,50	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,63	
1435	1	0	In	3,38	mm	,00	0,50	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		1,25	
1455	5	0	In	3,18	mm	,00	0,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		5,42	
1459	8	0	In	4,78	mm	,00	2,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		50,53	
2850	1	0	In		mm	,00	1,00	NR	212	Valve Ball Full Port ST.46544/1 THRD-F NPT 800# Forged ASTM		1,40	
					1	_			1	A 105 S 98			
2984	1/2	0	In		mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Forged ASTM A 105 R 83		1,90	
476	8	0	In		mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5216	12,60	
	,		,	,						ASTM A 105			
303	8	0	In	4,78	mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR.		23,90	
		•	•	·						WPB			·
324	1	0	In	3,38	mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,14	
										GR. WPB			
2093	8	5	In	4,78	3,18 mm	,00	1,00	NR	212	Reducer Eccentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		3,82	
1126	1	0	In		mm	,00	1,00	NR	212	Coupling Half TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,15	
5216	3/4	0	In		mm	110,00	8,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		7,04	
	,								1	ASTM A 193 B7/ASTM A 194 GR.2H		<u> </u>	
702	8	0	In		mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
	,	•						,		M Erection	Total Kg:	108,77	
SZ1	PIPING	BOM S	ABIZ		63021	- 0			A	AREA A 1/1	TOTAL Kg:	108,77	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63021 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page
Zones			

		Ba	llestr	a					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E35	5	<b>REV:</b> 0	16/	/11/2010
	PUMA5	5		16/11/20	010 10.1	2.18							DO	C: 1E35	5-65-1103		•	
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	o: °C	Pres: BAR	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	0,50	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				1,25		
1452	2+1/2	0	In	3,18		mm	,00	0,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				2,74		
1459	8	0	In	4,78		mm	,00	1,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				25,26		
2850	1	0	In			mm	,00	1,00	NR	212	Valve Ball Full Port ST.46544/1 THRD A 105 S 98	-F NPT 80	00# Forged	ASTM		1,40		
476	8	0	In			mm	,00	2,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25	0 AARH)	Forged	5216	25,20		
324	1	0	In	3,38		mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 F GR. WPB	BE Wrough	nt S ASTM	A 234		0,14		
1650	4	2+1/2	In	3,18	3,18	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E	.R.W. AS	ГМ А 234	GR. WPB		0,86		
1666	8	4	In	4,78	3,18	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E	.R.W. AS	ГМ А 234	GR. WPB		3,82		
1126	1	0	In			mm	,00	1,00	NR	212	Coupling Half TA 50.7/2 THRD-F NP	Γ 3000# Fo	orged AST	M A 105		0,15		
5216	3/4	0	In			mm	110,00	16,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.2 T	AB. 9		14,08		

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5B

1/1

2,00 NR 212

Α

63022 - 0

702

SZ1

PIPING BOM SABIZ

HV_63.2A	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 63022 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Total Kg:

TOTAL Kg:

74,9

		В	Ballesti	ra					S	KETCH	IES MATERIAL LIST		P	ROJ:	1E35		RE	V: 0	16/	11/2010
	PUMA	<b>1</b> 5		16/11/20	)10 10.12	2.18	1						D	OC:	1E35-65-11	.03	•	•		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: n	nm	Temp: °C		Pres: B	.R	Co	rr: mm
Mark	S1	S2		T1	Т2		Len mm	Otv	Um	Pip. class	Component				Gen. 1	Bolt	Weight	(Kg) As	s.blv	Branch
1459	8	0	In	4,78		mm	,00			212	Pipe ASME B36.10 PL E.R.W. API 5L C	GR. B						5,79		
5059	8	0	In			mm	,00	1,00	NR	212	Valve Butterfly With Gasket ST.46856/0 (125÷250 AARH) Cast DUCTILE IRON		R 150 LE	3 RF	5225		1	7,90		
476	8	0	In			mm	,00	4,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF ASTM A 105	F (125÷2:	50 AARI	H) Forg	ged 5216			0,40		
303	8	0	In	4,78		mm	,00	3,00	NR	212	90° Elbow Long Radius ASME B16.9 B WPB	E E.R.W	. ASTM	A 234	GR.		3	5,85		
5216	3/4	0	In			mm	110,00	16,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME	E B18.2.1	UNC/2.	.2 TAB	. 9		1	4,08		

AREA A

170,00

,00

mm

mm

63023 - 0

8,00 NR 212

2,00 NR 212

A

5225

702

SZ1

3/4

0

0

PIPING BOM SABIZ

ASTM A 193 B7/ASTM A 194 GR.2H

ASTM A 193 B7/ASTM A 194 GR.2H

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

1/1

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5B

Plant SZ1 PIPING BOM SABIZ
Line 63023 - 0
Dang. fluid type
Area AREA A
Sketch Sht 1/1
System
Sketch Sht 1/1
Sometric code
Page 1
Zones

8,96

202,98

202,98

Total Kg:

Ball	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.18		DOC:	1E35-65-1103		
	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	0,50	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,63	
1435	1	0	In	3,38	mm	,00	0,50	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		1,25	
1455	5	0	In	3,18	mm	,00	0,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		5,42	
1459	8	0	In	4,78	mm	,00	2,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		50,53	
2850	1	0	In		mm	,00	1,00	NR	212	Valve Ball Full Port ST.46544/1 THRD-F NPT 800# Forged ASTM A 105 S 98		1,40	
2984	1/2	0	In		mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Forged ASTM A 105 R 83		1,90	
476	8	0	In		mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5216	12,60	
	1-	1.		1				1	T	ASTM A 105			
303	8	0	In	4,78	mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		23,90	
324	1	0	In	3,38	mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,14	
2093	8	5	In	4,78	3,18 mm	.00	1.00	NR	212	GR. WPB  Reducer Eccentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		3,82	
1126	1	0	In	7,70	mm	.00		NR		Coupling Half TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,15	
5216	3/4	0	In		mm	110,00			212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		7,04	
3210	3/ 1					110,00		1111	212	ASTM A 193 B7/ASTM A 194 GR.2H		7,01	
702	8	0	In		mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
		'	'	,					]	M Erection	Total Kg:	108,77	'
SZ1	PIPING	BOM SA	ABIZ		63024	- 0			A	AREA A 1 / 1	TOTAL Kg:	108,77	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63024 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Bal	lestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.19		DOC:	1E35-65-1103		
	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
1435	1	0	In	3,38	r	nm	,00	0,50	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		1,25		
1452	2+1/2	0	In	3,18	r	nm	,00	0,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		2,74		
1459	8	0	In	4,78	r	nm	,00	24,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		606,31		
2850	1	0	In		r	nm	,00	1,00	NR	212	Valve Ball Full Port ST.46544/1 THRD-F NPT 800# Forged ASTM A 105 S 98		1,40		
476	8	0	In		r	nm	,00	3,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5216	37,80		
135	8	0	In	4,78	r	nm	,00	4,00	NR	212	45° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		26,00		
303	8	0	In	4,78	r	nm	,00	5,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		59,75		
1650	4	2+1/2	In	3,18	3,18 r	nm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB	3	0,86		
1666	8	4	In	4,78	3,18 r	nm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB	3	3,82		
1056	1/2	0	In		r	nm	,00	2,00	NR	212	Coupling TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,24		
1126	1	0	In		r	nm	,00	1,00	NR	212	Coupling Half TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,15		
5216	3/4	0	In		r	nm	110,00	24,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		21,12		
											ASTM A 193 B7/ASTM A 194 GR.2H				
702	8	0	In		r	nm	,00	3,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B	<u> </u>			
											M Erection	Total Kg:	761,44		
SZ1	PIPING E	OM SAI	BIZ		6	3025 - 0	)			A	AREA A 1 / 1	TOTAL Kg:	761,44		

HV_63.2B	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	SP.1406/2-SP.1407/3
PI_63.2	<b>Line</b> 63025 - 0	Fluid	System	
PT_63.11	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.19		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temn: °C 1	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	0,50	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,63	
1459	8	0	In	4,78	mm	,00	11,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		277,89	
2984	1/2	0	In		mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Forged ASTM A 105 R 83		1,90	
5059	8	0	In		mm	,00	1,00	NR	212	Valve Butterfly With Gasket ST.46856/0 WAFER 150 LB RF (125÷250 AARH) Cast DUCTILE IRON B 85	5225	17,90	
465	1/2	0	In		mm	,00	2,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5191	0,80	
476	8	0	In		mm	,00	3,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5216	37,80	
303	8	0	In	4,78	mm	,00	4,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		47,80	
2093	8	5	In	4,78	3,18 mm	,00	1,00	NR	212	Reducer Eccentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		3,82	
5191	1/2	0	In		mm	65,00	4,00	NR	212	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		0,44	
5216	3/4	0	In		mm	110,00	16,00	NR	212	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		14,08	
5225	3/4	0	In		mm	170,00	8,00	NR	212	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		8,96	
691	1/2	0	In		mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
702	8	0	In		mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
	'	'	'	'		-			l	M Erection	Total Kg:	412,03	
SZ1	PIPING	BOM SA	ABIZ		63026	- 0			A A	AREA A 1 / 1	TOTAL Kg:	412,03	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63026 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Ball	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.20		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temp: °C	Pres: BAR	Corr: mm

Mark	S1	<b>S2</b>		T1	T2	Len mm	Qt	Uı	Pip. clas	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77	mn	,00	0,5	0 m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,63	
1459	8	0	In	4,78	mn	,00,	2,0	0 m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		50,53	
2984	1/2	0	In		mn	,00,	1,0	0 N	R 212	Valve Check ST.46275/1 SW-F 800# Forged ASTM A 105 R 83		1,90	
5059	8	0	In		mn	,00	1,0	0 N	R 212	Valve Butterfly With Gasket ST.46856/0 WAFER 150 LB RF	5225	17,90	
	·			•						(125÷250 AARH) Cast DUCTILE IRON B 85			
465	1/2	0	In		mn	,00,	2,0	0 N	R 212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5191	0,80	
	·			•				_		ASTM A 105			
476	8	0	In		mn	,00	2,0	0 N	R 212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5216	25,20	
										ASTM A 105			'
303	8	0	In	4,78	mn	,00	2,0	0 N	R 212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR.		23,90	
								_		WPB			
2093	8	5	In	4,78	3,18 mn	,00,	1,0	0 N	212	Reducer Eccentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		3,82	
5191	1/2	0	In		mn	65,00	4,0	0 N	R 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		0,44	
	·			•						ASTM A 193 B7/ASTM A 194 GR.2H			
5225	3/4	0	In		mn	170,00	8,0	0 N	R 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		8,96	
	·			•						ASTM A 193 B7/ASTM A 194 GR.2H			
691	1/2	0	In		mn	,00	1,0	0 N	R 212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
		<u> </u>				<u> </u>				M Erection	Total Kg:	134,08	
SZ1	PIPING	BOM SA	BIZ		630	27 - 0			A	AREA A 1/1	TOTAL Kg:	134.08	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63027 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allest	ra					S	SKI	ETCH	IES	MATERIAL LIST		PROJ	1E3:	5	REV:	0	16/11/2010
	PUMA	.5		16/11/20	10 10.12.	20									DOC:	1E3:	5-65-1103			
			Bal	llestra							SU	LPHU	TREX GH/F	Size: In	Thk: mm	Tem	p: °C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	<b>T2</b>		Len mm	Qty	Um	ı Pij	p. class	Co	mponent				Gen. Bolt	Weight (Kg	g) As.bly	y Branch

Mark	S1	S2		T1	T2		Len mm	Qty	Um Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1435	1	0	In	3,38		mm	,00	1,00	m 212	Pipe ASME B36.10 PL Seamless API 5L GR. B		2,50	
1452	2+1/2	0	In	3,18		mm	,00	0,30	m 212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		1,64	
1459	8	0	In	4,78		mm	,00	1,00	m 212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		25,26	
2850	1	0	In			mm	,00	1,00	NR 212	Valve Ball Full Port ST.46544/1 THRD-F NPT 800# Forged ASTM		1,40	
						•				A 105 S 98		·	
476	8	0	In			mm	,00	2,00	NR 212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5216	25,20	
303	8	0	In	4,78		mm	,00	1,00	NR 212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		11,95	
		1-	1.		1	_		1.00					
324	1	0	In	3,38		mm	,00	1,00	NR 212	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		0,14	
1650	4	2+1/2	In	3,18	3,18	mm	,00	1,00	NR 212	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		0,86	
1666	8	4	In	4,78	3,18	mm	,00	1,00	NR 212	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		3,82	
5216	3/4	0	In			mm	110,00	24,00	NR 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		21,12	
										ASTM A 193 B7/ASTM A 194 GR.2H			
702	8	0	In			mm	,00	3,00	NR 212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
									N	M Erection	Total Kg:	93,9	
SZ1	PIPING B	OM SAE	BIZ			63028	- 0		A A	AREA A 1/1	ΓΟΤΑL Kg:	93,9	

HV_63.4A	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 63028 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		Ba	llestr	a					,	SKETCH	IES MATERIAL LIST		P	ROJ:	1E35		REV:	10	5/11/2
	PUMA:	5		16/11/20	010 10.12	2.20	1						D	OC:	1E35-	65-1103		•	
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk:	nm	Temp:	°C	Pres: BAR		Corr: 11
Mark	S1	S2		T1	Т2		Len mm	Otv	Un	n Pip. class	Component					Gen. Bolt	Weight (Kg	As.blv	Bra
1435	1	0	In	3,38		mm	,00	1,00	) m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B					2,50		
1452	2+1/2	0	In	3,18		mm	,00	0,30	) m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B					1,64		
1457	6	0	In	3,96		mm	,00	1,00	) m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B					16,05		
1459	8	0	In	4,78		mm	,00	5,00	) m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B					126,31		
2850	1	0	In			mm	,00	3,00	) NI	R 212	Valve Ball Full Port ST.46544/1 THRD A 105 S 98	-F NPT 8	00# For	ged AS	TM		4,20		
5058	6	0	In			mm	,00	1,00	) NI	R 212	Valve Butterfly With Gasket ST.46856/(125÷250 AARH) Cast DUCTILE IRO		150 LI	3 RF		5223	10,30		
475	6	0	In			mm	,00	2,00	) NI	R 212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25	0 AAR	H) Forg	ged	5214	15,00		
476	8	0	In			mm	,00	2,00	) NI	R 212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25	0 AAR	H) Forg	ged	5216	25,20		
301	6	0	In	3,96		mm	,00	1,00	) NI	R 212	90° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W.	ASTM	A 234	GR.		5,66		$\perp$
303	8	0	In	4,78		mm	,00	3,00	) NI	R 212	90° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W.	ASTM	A 234	GR.		35,85		
324	1	0	In	3,38		mm	,00	1,00	) NI	R 212	90° Elbow Long Radius ASME B16.9 E GR. WPB	BE Wrough	nt S AS	ТМ А 2	234		0,14		
1650	4	2+1/2	In	3,18	3,18	mm	,00	1,00	) NI	R 212	Reducer Concentric ASME B16.9 BE E	.R.W. AS	ГМ А 2	34 GR.	WPB		0,86		
1666	8	4	In	4,78	3,18	mm	,00	1,00	) NI	R 212	Reducer Concentric ASME B16.9 BE E	.R.W. AS	ГМ А 2	34 GR.	WPB		3,82		
1671	8	6	In	4,78	3,96	mm	,00	1,00	) NI	R 212	Reducer Concentric ASME B16.9 BE E	.R.W. AS	ГМ А 2	34 GR.	WPB		3,82		
5216	3/4	0	In			mm	110,00	16,00	) NI	R 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2	.2 TAB	. 9		14,08		
5223	3/4	0	In			mm	155,00	8,00	) NI	R 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2	.2 TAB	. 9		8,48		
702	8	0	In			mm	,00	2,00	) NI	R 212	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH)	_ B5B						
		•			•					N	M Erection					Total Kg:	273,92	Í	
PT_63.4 PI 63.4							Plant SZ1		ВОМ	SABIZ	Piping Class 212 Fluid				Wel Syst	0 1	tion SP.1406/2-S	P.1407/3	
HV_63.4	B						Dang. fluid				Coating				De p		Op	tem	

Sketch Sht 1/1

Isometric code

Area AREA A

Zones

Page 1

		Ba	allestr	a					SI	KETC	HES M	ATERIAL I	LIST		PROJ:	1E35	<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	10 10.12	.20									DOC:	1E35-65-1103			
			Ball	lestra						SI	ULPHUREX	K GH/F		Size: In	Thk: mm	Temp: °C	Pres: BAR	C	Corr: mm
Mark	S1	<b>S2</b>		T1	T2		Len mn	Qty	Um	Pip. class	Compo	nent				Gen. Bolt	Weight (Kg)	As.bly	Branch
SZ1	SZ1 PIPING BOM SABIZ 63029 - 0					0	A AREA A						1		TOTAL Kg:	273,92			

PT_63.4	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	SP.1406/2-SP.1407/3
PI_63.4	<b>Line</b> 63029 - 0	Fluid	System	
HV_63.4B	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 2
	Zones			
	Lones			

Ballestra						SKETCHES MATERIAL LIST PROJ						OJ:	1E35		REV: 0	16	/11/2010		
PUMA5 16/11/2010 10.12.20					<b>DOC:</b> 1E33							1E35-65	-1103						
Ballestra					SULPHUREX GH/F Size: In Thk: mm Temp									Pres: BAR	C	Corr: mm			
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Ge	en. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	1,00	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B					2,50		
1457	6	0	In	3,96		mm	,00	1,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B					16,05		
1459	8	0	In	4,78		mm	,00	2,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B					50,53		
2850	1	0	In			mm	,00	2,00	NR	212	Valve Ball Full Port ST.46544/1 THRD A 105 S 98	-F NPT 80	0# Forge	d AS	TM		2,80		
5058	6	0	In			mm	,00	1,00	NR	212	Valve Butterfly With Gasket ST.46856/(125÷250 AARH) Cast DUCTILE IRON		150 LB F	RF	52	23	10,30		
475	6	0	In			mm	,00	2,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	(AARH)	Forg	ged 52	14	15,00		
301	6	0	In	3,96		mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W. A	ASTM A	234 (	GR.		5,66		
1671	8	6	In	4,78	3,96	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E	R.W. AST	M A 234	GR.	WPB		3,82		
5223	3/4	0	In			mm	155,00	8,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2	TAB.	. 9		8,48		
										I	M Erection				1	Total Kg:	115,14		
SZ1	PIPING	BOM SA	ABIZ			63033	- 0			A	AREA A 1	<sup>'</sup> 1			TO	TAL Kg:	115,14		

		F	Ballesti	ra					SK	KETCH	IES MATERIAL LIST		PROJ	J: 1E	35	<b>REV:</b> 0	16/11/2010
	PUMA	<b>A</b> 5		16/11/20	010 10.1	2.21	1						DOC:	1E	35-65-1103	1	
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Ter	np: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um I	Pip. class	Component				Gen. Bolt	Weight (Kg) As.h	oly Branch
1435	1	0	In	3,38		mm	,00	1,00			Pipe ASME B36.10 PL Seamless API 5I	GR. B				2,50	
1457	6	0	In	3,96		mm	,00	1,00	m 2	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				16,05	
1459	8	0	In	4,78		mm	,00	10,00	m 2	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				252,63	
2850	1	0	In			mm	,00	2,00	NR 2	212	Valve Ball Full Port ST.46544/1 THRD-	F NPT 80	0# Forged A	ASTM		2,80	
				'	'	'					A 105 S 98						
5058	6	0	In			mm	,00	1,00	NR 2	212	Valve Butterfly With Gasket ST.46856/0		150 LB RF		5223	10,30	
							_				(125÷250 AARH) Cast DUCTILE IRON						
475	6	0	In			mm	,00	2,00	NR 2	212	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	) AARH) Fo	orged	5214	15,00	
301	6	0	In	3,96		mm	,00	1,00	NR 2	212	90° Elbow Long Radius ASME B16.9 B	E E.R.W.	ASTM A 23	34 GR.		5,66	
							_				WPB				1		
303	8	0	In	4,78		mm	,00	1,00	NR 2	212	90° Elbow Long Radius ASME B16.9 B	E E.R.W.	ASTM A 23	34 GR.		11,95	
											WPB						
1671	8	6	In	4,78	3,96	mm	,00	1,00	NR 2	212	Reducer Concentric ASME B16.9 BE E.	R.W. AST	M A 234 G	R. WF	PB	3,82	
5223	3/4	0	In			mm	155,00	8,00	NR 2	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI	E B18.2.1	UNC/2.2 TA	AB. 9		8,48	
											ASTM A 193 B7/ASTM A 194 GR.2H				·		
	-					-	-			N	A Erection				Total Kg:	329,2	
											<u>'</u>						

AREA A

A

SZ1

PIPING BOM SABIZ

63037 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specificatio	n SP.1406/2-SP.1407/3
<b>Line</b> 63037 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

1 / 1

TOTAL Kg:

		B	Ballestı	ra					S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	<b>\</b> 5		16/11/2	010 10.12	2.21							DOC:	1E35-6	55-1103			
			Bal	lestra						SU	JLPHUREX GH/F	Size: In Th	k: mm	Temp: °	С	Pres: BAR	C	orr: 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	4,00	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				21,75		
159	2	0	In	3,91		mm	,00	1,00	NR	212	45° Elbow Long Radius ASME B16.9 E GR. WPB	BE Wrought S	ASTM A	234		0,31		
327	2	0	In	3,91		mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 E GR. WPB	BE Wrought S	ASTM A	234		1,33		
										l	M Erection			·	Total Kg:	23,39		
SZ1	PIPING	BOM S	ABIZ			63041	- 0			A A	AREA A 1	<sup>'</sup> 1		TO	OTAL Kg:	23,39		

Plant SZ1 PIPING BOM SABIZ
Line 63041 - 0
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1

Zones

Piping Class 212
Welding specification SP.1406/2-SP.1407/3

System
De pres
Op tem
Page 1

Zones

		Ba	llestı	a					S	KETCI	HES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA5	5		16/11/20	10 10.12	.21							DOC:	1E35-	65-1103			,
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	n Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,20	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				0,25		
1437	1+1/2	0	In	3,68		mm	,00	0,20	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				0,81		
1438	2	0	In	3,91		mm	,00	5,00	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				27,19		
2984	1/2	0	In			mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Fe	orged ASTN	A 105 R 8	13		1,90		
327	2	0	In	3,91		mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 E	BE Wrought	S ASTM A	234		1,33		
											GR. WPB					·		
1761	2	1+1/2	In	3,91	3,68	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE V	Vrought S A	STM A 234	GR.		0,43		
											WPB							
										I	M Erection				Total Kg:	31,91		
SZ1	PIPING I	BOM SAI	BIZ			63042	- 0			A	AREA A 1	/ 1		Т	OTAL Kg:	31,91		

Plant SZ1 PIPING BOM SABIZ
Line 63042 - 0
Piping Class 212
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		Ba	llestr	a					5	SKET(	CHES MATERIAL LIST			PROJ	: 1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA5	5		16/11/20	010 10.12.22									DOC:	1E35	-65-1103		•	
			Ball	lestra							SULPHUREX GH/F	Size: In	Thk	mm	Temp	:°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	T2	Len m	ım	Qty	Un	ı Pip. cla	ss Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77	mr	ı ,	00	0,20	) m	212	Pipe ASME B36.10 PL Seamless API	5L GR. B					0,25		
1437	1+1/2	0	In	3,68	mr	ı ,	00	0,20	) m	212	Pipe ASME B36.10 PL Seamless API	5L GR. B					0,81		
1438	2	0	In	3,91	mr	ı ,	00	4,00	) m	212	Pipe ASME B36.10 PL Seamless API	5L GR. B					21,75		
2984	1/2	0	In		mr	ı ,	00	1,00	) NR	212	Valve Check ST.46275/1 SW-F 800#	Forged AST	M A	105 R 8	3		1,90		
159	2	0	In	3,91	mr	1 ,	00	1,00	) NR	212	45° Elbow Long Radius ASME B16.9 GR. WPB	BE Wrough	nt S A	STM A	234		0,31		
327	2	0	In	3,91	mr	ı ,	00	1,00	) NR	212	90° Elbow Long Radius ASME B16.9 GR. WPB	BE Wrough	nt S A	STM A	234		0,66		
1761	2	1+1/2	In	3,91	3,68 mr	1 ,	00	1,00	) NR	212	Reducer Concentric ASME B16.9 BE WPB	Wrought S	ASTN	I A 234	GR.		0,43		
											M Erection					Total Kg:	26,12		
SZ1	PIPING B	BOM SAI	BIZ		630	143 - 0				A	AREA A	1 / 1			,	TOTAL Kg:	26,12		

		Ba	llestı	a					S	KETCH	HES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA5	5		16/11/20	10 10.12	.22							DOC:	1E35-	65-1103			
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	n Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,20	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				0,25		
1437	1+1/2	0	In	3,68		mm	,00	0,20	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				0,81		
1438	2	0	In	3,91		mm	,00	5,00	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				27,19		
2984	1/2	0	In			mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Fe	orged ASTN	A 105 R 8	33		1,90		
327	2	0	In	3,91		mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 E	BE Wrought	S ASTM A	234		1,33		
						•					GR. WPB							
1761	2	1+1/2	In	3,91	3,68	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE V	Vrought S A	STM A 234	GR.		0,43		
											WPB							
										1	M Erection				Total Kg:	31,91		
SZ1	PIPING I	BOM SAI	BIZ			63044	- 0			A	AREA A 1	/ 1		Т	OTAL Kg:	31,91		

Plant SZ1 PIPING BOM SABIZ	Piping Class	212	Welding specification SP.1406/2-SP.1407/3		
Line 63044 - 0	Fluid	System			
Dang. fluid type	Coating	De pres	Op tem		
Area AREA A	Sketch Sht	1/1	Isometric code	Page	1
Zones					

		В	allest	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA	15		16/11/20	010 10.12	2.22							DOC:	1E35-65-11	103			
			Ba	llestra						SU	LPHUREX GH/F	Size: In Thk	: mm	Temp: °C	Pı	res: BAR	С	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen.	Bolt W	eight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,20	m	212	Pipe ASME B36.10 PL Seamless API 51	L GR. B				0,25		
1438	2	0	In	3,91		mm	,00	1,00	m	212	Pipe ASME B36.10 PL Seamless API 51	L GR. B				5,44		
2984	1/2	0	In			mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Fo	orged ASTM A	105 R 83			1,90		
4957	2	0	In			mm	,00	1,00	NR	212	Valve Bottom & Screw ST.46591/3 LUG AARH) Cast ASTM A 216 GR. WCB 7	`	25÷250			10,50		
470	2	0	In			mm	,00	1,00	) NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 AA	RH) For	ged 5199		2,20		I
327	2	0	In	3,91		mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought S A	STM A 2	234		1,33		
5199	5/8	0	In			mm	85,00	4,00	) NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UNC	2/2.2 TAB	. 9		0,84		
696	2	0	In			mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷25)	0 AARH) _ B5	В					
				'		1				N	1 Erection			Tota	al Kg:	22,46		

AREA A

A

SZ1

PIPING BOM SABIZ

63045 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	SP.1406/2-SP.1407/3
<b>Line</b> 63045 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

1 / 1

TOTAL Kg:

		I	Ballest	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2	2010
	PUMA	<b>\</b> 5		16/11/20	010 10.12	2.22							DOC:	1E35-6	5-1103		•	
			Bal	llestra						SU	LPHUREX GH/F	Size: In Thk	; mm	Temp: °C	2	Pres: BAR	Corr:	mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			G	Gen. Bolt	Weight (Kg) A	s.bly Bra	anch
1433	1/2	0	In	2,77		mm	,00	0,20	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				0,25		
1438	2	0	In	3,91		mm	,00	1,00	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				5,44		
2984	1/2	0	In			mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Fo	orged ASTM A	105 R 83			1,90		
4957	2	0	In			mm	,00	1,00	NR	212	Valve Bottom & Screw ST.46591/3 LUG AARH) Cast ASTM A 216 GR. WCB	,	25÷250			10,50		
470	2	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 AA	RH) For	ged 5	199	2,20		
327	2	0	In	3,91		mm	,00	2,00	NR	212	90° Elbow Long Radius ASME B16.9 E GR. WPB	E Wrought S A	STM A 2	234		1,33		
5199	5/8	0	In			mm	85,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UNC	/2.2 TAE	3. 9		0,84		
696	2	0	In			mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH) _ B51	В					
										N	1 Erection				Total Kg:	22,46	<u> </u>	

AREA A

SZ1

PIPING BOM SABIZ

63046 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification SP.140	5/2-SP.1407/3
Line 63046 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

1 / 1

TOTAL Kg:

		Bal	lestra						S	KETCHI	ES MATERIAL LIST		PROJ:	1E35		REV:	0 1	6/11/2010
	PUMA:	5	]	16/11/20	10 10.12.	.22							DOC:	1E35-65	5-1103			
			Balles	tra						SULI	PHUREX GH/F	Size: In	Thk: mm	Temp: °C	2	Pres: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			G	en. Bolt	Weight (Kg	g) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,50	m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				0,63	3	

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	0,50	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,63		
1453	3	0	In	3,18		mm	,00	2,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		13,44		
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD-F NPT 200 LB Forged BRASS NICKEL PLATED S 87		0,30		
4932	3	0	In			mm	,00	1,00	NR	203	Valve Foot ST.46358/1 FLG 150 LB RF (125÷250 AARH) Cast	5201			
	ı					1	_		•		DUCTILE IRON R 89		1		1
472	3	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5201	4,10		
		,			'						ASTM A 105			·	
297	3	0	In	3,18		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR.		1,18		
	ľ				'	,				•	WPB				
6084	3	1	In	3,18	3,38	mm	,00	1,00	NR	203	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		0,57		
2073	3	2+1/2	In	3,18	3,18	mm	,00	1,00	NR	203	Reducer Eccentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		0,57		
4401	1	1/2	In			mm	,00	1,00	NR	203	Coupling Reducing TA 50.7/2 THRD-F NPT 3000# Forged ASTM A		0,08		
				1		1	· -		_		105		<u>'</u>		
5201	5/8	0	In			mm	95,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		0,92		
				1		1	· -		_		ASTM A 193 B7/ASTM A 194 GR.2H		<u>'</u>		
666	3	0	In			mm	,00	2,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C				
	,	*		•						l	M Erection	Total Kg:	21,8		
SZ1	PIPING	BOM SAI	BIZ			63047 -	- 0			A A	AREA A 1/1	TOTAL Kg:	21,8		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63047 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page
Zones			

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	010 10.12	.23							DOC:	1E35-	65-1103			
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	С	Corr: mm
	1									,								
Mark	S1	<b>S2</b>		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	0,50	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				1,25		
1438	2	0	In	3,91		mm	,00	30,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				163,11		
2830	1	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD	-F NPT 20	00 LB Forged			0,60		
	1	-	1	1	-	1				1	BRASS NICKEL PLATED S 87							

1435	1	0	In	3,38		mm	,00	0,50	m	203	Pipe ASME B36.10 I	L Seamless API 5L GR. B		1,25
1438	2	0	In	3,91		mm	,00	30,00	m	203	Pipe ASME B36.10 I	L Seamless API 5L GR. B		163,11
2830	1	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port S BRASS NICKEL PL	T.46330/3 THRD-F NPT 200 LB Forged ATED S 87	d	0,60
2833	2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port S BRASS NICKEL PL	T.46330/3 THRD-F NPT 200 LB Forged ATED S 87	d	2,20
6029	2	0	In			mm	,00	1,00	NR	203		06/3 THRD-F NPT 150 LB Forged BRON	NZE R	2,05
470	2	0	In			mm	,00	1,00	NR	203		E B16.5 150 LB RF (125÷250 AARH) Fo	orged 5199	2,20
324	1	0	In	3,38		mm	,00	1,00	NR	203	90° Elbow Long Rad GR. WPB	us ASME B16.9 BE Wrought S ASTM A	A 234	0,14
327	2	0	In	3,91		mm	,00	3,00	NR	203		us ASME B16.9 BE Wrought S ASTM A	A 234	1,99
1761	2	1+1/2	In	3,91	3,68	mm	,00	1,00	NR	203	Reducer Concentric A WPB	SME B16.9 BE Wrought S ASTM A 234	4 GR.	0,43
1124	1/2	0	In			mm	,00	1,00	NR	203	Coupling Half TA 50	7/2 THRD-F NPT 3000# Forged ASTM	A 105	0,06
5199	5/8	0	In			mm	85,00	4,00	NR	203	Stud Bolt + 2 Nuts T. ASTM A 193 B7/AS	A 50.48B/28 ASME B18.2.1 UNC/2.2 TA ΓΜ A 194 GR.2H	AB. 9	0,84
664	2	0	In			mm	,00	1,00	NR	203	Gasket TA 50.5/31 1	50 LB RF (125÷250 AARH) _ B5C		
		,	1			'			•		M Erection		Total Kg:	174,88
SZ1	PIPING	BOM SA	BIZ			63048 -	0			A	AREA A	1 / 1	TOTAL Kg	174,88

PI_63.6	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
	<b>Line</b> 63048 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		F	Ballestr	a					-	SKETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E35		<b>REV:</b> 0 1	16/11/2010
	PUMA5			16/11/20	10 10.12.	.23							DOC	: 1E35	-65-1103		
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Ur	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	6,0	0 m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				24,30	
2832	1+1/2	0	In			mm	,00,	1,0	0 NI	R 203	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forg	ed		1,50	
158	1+1/2	0	In	3,68		mm	,00	1,0	O NI	R 203	45° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	t S ASTM	A 234		0,18	
326	1+1/2	0	In	3,68		mm	,00	2,0	O NI	R 203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	t S ASTM	A 234		0,74	
1258	1+1/2	0	In			mm	,00	1,0	O NI	R 203	Union TA 50.7/2 THRD-F NPT 3000#	Forged AS	TM A 105			1,26	
				'							M Erection				Total Kg:	27,98	

AREA A

1 / 1

TOTAL Kg:

27,98

PIPING BOM SABIZ

SZ1

63050 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63050 - 0
Fluid
Dang, fluid type
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

		В	allesti	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 1	6/11/2010
	PUMA	15		16/11/2	010 10.12	2.23							DOC:	1E35-6	5-1103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp: °C	С	Pres: BAR	Corr: mm
Mark	S1	S2		Т1	Т2		Len mm	Qty	Um	Pip. class	Component			G	Gen. Bolt	Weight (Kg) As.bly	Branch
1438	2	0	In	3,91		mm	,00	2,00	m	212	Pipe ASME B36.10 PL Seamless API 51	GR. B				10,87	
470	2	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	AARH) For	ged 5	199	2,20	
327	2	0	In	3,91		mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought	S ASTM A	234		0,66	
5199	5/8	0	In			mm	85,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAE	3.9		0,84	
696	2	0	In			mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5B				
			1		1					N	1 Erection				Total Kg:	14,58	

AREA A

PIPING BOM SABIZ

SZ1

63051 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class	212	Welding specification SP.1406/2-SP.1407/3		
Line 63051 - 0	Fluid	System			
Dang. fluid type	Coating	De pres	Op tem		
Area AREA A	Sketch Sht	1/1	Isometric code	Page	1
Zones					

1 / 1

TOTAL Kg:

		В	Ballestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	i	<b>REV:</b> 0	16	/11/2010
	PUMA5	5		16/11/20	10 10.12	.24							DOC:	1E35	-65-1103			
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	1,00	m	212	Pipe ASME B36.10 PL Seamless API 5I	GR. B				4,05		
2842	1+1/2	0	In			mm	,00	1,00	NR	212	Valve Ball Full Port ST.46590/3 LUG 15 Forged ASTM A 105 S 127	50 LB RF (	125÷250 AA	RH)	5374	7,00		
469	1+1/2	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH) For	ged	5193	1,40		
326	1+1/2	0	In	3,68		mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought	S ASTM A	234		0,37		
5193	1/2	0	In			mm	75,00	4,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAI	3. 9		0,48		
695	1+1/2	0	In			mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5B					

AREA A

35,00

mm

63052 - 0

16,00 NR 212

Α

5374

SZ1

1/2

0

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZPiping Class 212Welding specification SP.1406/2-SP.1407/3Line 63052 - 0FluidSystemDang, fluid typeCoatingDe presOp temArea AREA ASketch Sht 1/1Isometric codePage 1Zones

Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7

1 / 1

1,28

14,58

Total Kg:

TOTAL Kg:

	Balle	estra	SKETCHES MATERIAL LIST		PROJ	1E35	<b>REV:</b> 0	16/11/2010
	PUMA5	16/11/2010 10.12.24			DOC:	1E35-65-1103		
		Ballestra	SULPHUREX GH/F	Size: In	Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm
Mark	g1 g2	T1 T2	n Oty Um Pip. class Component			Gen. Bolt	Weight (Kg) As	.bly Branch

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	1,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		10,08	
2845	3	0	In		mm	,00	1,00	NR	212	Valve Ball Full Port ST.46590/3 LUG 150 LB RF (125÷250 AARH) Forged ASTM A 105 S 127	5377	22,50	
472	3	0	In		mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5201	4,10	
129	3	0	In	3,18	mm	,00	1,00	NR	212	45° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		0,60	
297	3	0	In	3,18	mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		1,18	
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 ASTM A 193 B7/ASTM A 194 GR.2H		0,92	
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	
		•	*	,		•			N	M Erection	Total Kg:	41,94	
SZ1	PIPING	BOM S	ABIZ		63053	- 0			A A	AREA A 1/1	TOTAL Kg:	41,94	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	n SP.1406/2-SP.1407/3
<b>Line</b> 63053 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page
Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.24			DOC:	1E35-65-1103		
	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	0,20	m 212	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,25	
1438	2	0	In	3,91		mm	,00	20,00	m 212	Pipe ASME B36.10 PL Seamless API 5L GR. B		108,74	
2843	2	0	In			mm	,00	2,00	NR 212	Valve Ball Full Port ST.46590/3 LUG 150 LB RF (125÷250 AARH)	5376	21,00	
										Forged ASTM A 105 S 127			
2989	2	0	In			mm	,00	1,00	NR 212	Valve Check ST.46275/1 SW-F 800# Forged ASTM A 105 R 83		15,00	
470	2	0	In			mm	,00	3,00	NR 212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5199	6,60	
									•	ASTM A 105			
159	2	0	In	3,91		mm	,00	2,00	NR 212	45° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,63	
										GR. WPB			
327	2	0	In	3,91		mm	,00	5,00	NR 212	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		3,32	
										GR. WPB	•	-	
1056	1/2	0	In			mm	,00	1,00	NR 212	Coupling TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,12	
5199	5/8	0	In			mm	85,00	8,00	NR 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		1,68	
										ASTM A 193 B7/ASTM A 194 GR.2H	•	-	
696	2	0	In			mm	,00	4,00	NR 212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
5376	5/8	0	In			mm	40,00	32,00	NR 212	Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7		4,80	
	"						-		N	M Erection	Total Kg:	162,15	
SZ1	PIPING	BOM SA	BIZ	<u> </u>	<u> </u>	63054 -	- 0	<u> </u>	A A	AREA A 1/1	TOTAL Kg:	162,15	

PI_63.5	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 63054 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ	1E35	5	REV: 0	16	/11/2010
	PUMA	<b>\</b> 5		16/11/2	010 10.1	2.24							DOC	1E35	5-65-1103		•	
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	o: °C	Pres: BAR	C	orr: 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	4,00	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				21,75		
2843	2	0	In			mm	,00	1,00	NR	212	Valve Ball Full Port ST.46590/3 LUG 1 Forged ASTM A 105 S 127	50 LB RF	(125÷250 A	ARH)	5376	10,50		
470	2	0	In			mm	,00	2,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25)	) AARH) Fo	rged	5199	4,40		
327	2	0	In	3,91		mm	,00	4,00	NR	212	90° Elbow Long Radius ASME B16.9 E GR. WPB	BE Wrough	t S ASTM A	234		2,66		

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5B

Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7

ASTM A 193 B7/ASTM A 194 GR.2H

SZ1	PIPING BOM SABIZ	63055 - 0	A	AREA A	1/1	TOTAL Kg:	42,55

M Erection

4,00 NR 212

2,00 NR 212

16,00 NR 212

85,00

40,00

,00

mm

mm

mm

5199

696

5376

5/8

5/8

0

Plant SZ1 PIPING BOM SABIZ
Line 63055 - 0
Fluid
System
Dang, fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

0,84

2,40

42,55

Total Kg:

		В	allestr	a						SKET	CHES MATERIAL LIST		P	ROJ:	1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA	.5		16/11/20	010 10.12.	.24							D	OC:	1E35-	65-1103	•		
			Ball	estra							SULPHUREX GH/F	Size: In	Thk: r	nm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qt	y U	m Pip. cla	ss Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1459	8	0	In	4,78		mm	,00	12,0	0 n	n 212	Pipe ASME B36.10 PL E.R.W. API 51	GR. B					303,16		
476	8	0	In			mm	,00	2,0	0 N	R 212	Flange Slip-On ASME B16.5 150 LB ASTM A 105	RF (125÷25	0 AAR	H) Forg	ged	5216	25,20		
303	8	0	In	4,78		mm	,00	7,0	0 N	R 212	90° Elbow Long Radius ASME B16.9 WPB	BE E.R.W.	ASTM	A 234	GR.		83,65		
5216	3/4	0	In			mm	110,00	16,0	0 N	R 212	Stud Bolt + 2 Nuts TA 50.48B/28 AS! ASTM A 193 B7/ASTM A 194 GR.2I		UNC/2	.2 TAB	. 9		14,08		
702	8	0	In			mm	,00	2,0	0 N	R 212	Gasket TA 50.5/31 150 LB RF (125÷2	50 AARH)	_ B5B						
		,		'	•	•		-			M Erection				'	Total Kg:	426,09		

Α

AREA A

PIPING BOM SABIZ

SZ1

63056 - 0

Plant SZ1 PIPING BOM SABIZPiping Class 212Welding specification SP.1406/2-SP.1407/3Line 63056 - 0FluidSystemDang, fluid typeCoatingDe presOp temArea AREA ASketch Sht 1/1Isometric codePage 1Zones

1 / 1

TOTAL Kg:

		В	allesti	ra					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	<b>A</b> 5		16/11/2	010 10.12	2.25							DOC:	1E35-65-	5-1103			
	Ballestra									SUI	LPHUREX GH/F	Size: In Th	k: mm	Temp: °C		Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Ge	en. Bolt	Weight (Kg)	As.bly	Branch
1543	6	0	In	2,77		mm	,00				Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316					772,99	<u> </u>	
456	6	0	In			mm	,00	2,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face Smo	oth Forge	ed 514	47	15,00		
187	6	0	In	2,77		mm	,00	2,00	NR	216	45° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrought W	ASTM A	A 403		4,07		
355	6	0	In	2,77		mm	,00	7,00	NR	216	90° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrought W	ASTM A	A 403		28,29		

WP316 Type A

M Erection

AREA A

ASTM A 193 B7/A194 2H Galvanized

Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR.

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5F

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

1 / 1

2,00 NR 216

16,00 NR 216

2,00 NR 216

A

1236

5147

720

SZ1

3/4

6

0

0

PIPING BOM SABIZ

2,77

In

mm

mm

mm

63060 - 0

115,00

,00

KV_63.13	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	on SP.1406/2-SP.1408/3
	<b>Line</b> 63060 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			· ·

2,66

14,40

837,41

837,41

Total Kg:

TOTAL Kg:

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/20	10 10.1	2.25	1						DOC:	1E35	-65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In T	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.bl	y Branch
1541	4	0	In	2,11		mm	,00	20,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A	312 TP 310	5			119,13	
454	4	0	In			mm	,00	3,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB F ASTM A 105 Galvanized	Flat Face Sm	ooth Forge	1	5138	16,80	
185	4	0	In	2,11		mm	,00	1,00	NR	216	45° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrought V	W ASTM A	403		0,69	
353	4	0	In	2,11		mm	,00	4,00	NR	216	90° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrought V	W ASTM A	403		5,60	
1234	4	0	In	2,11		mm	,00	3,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrough WP316 Type A	nt W ASTM	A 403 GR.			1,87	
5138	5/8	0	In			mm	110,00	24,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/A194 2H Galvanized	E B18.2.1 UI	NC/2.2 TAE	3.9		6,00	
718	4	0	In			mm	,00	3,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250	AARH) _ I	B5F				

1 / 1

AREA A

Α

SZ1

PIPING BOM SABIZ

63061 - 0

KV_63.13	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	on SP.1406/2-SP.1408/3
	<b>Line</b> 63061 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Total Kg:

TOTAL Kg:

150,09

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	10 10.12	.25							DOC:	1E35-	65-1103			
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mn	ı Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1543	6	0	In	2,77		mm	,00	2,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM	A 312 TP 3	16			23,07		
355	6	0	In	2,77		mm	,00	2,00	NR	216	90° Elbow Long Radius ASME B16.9 E	BE Wrough	W ASTM A	403		8,08		
		·									GR. WP316							
										N	M Erection				Total Kg:	31,16		

1 / 1

TOTAL Kg:

31,16

AREA A

Α

SZ1

PIPING BOM SABIZ

63062 - 0

KV_63.12	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	SP.1406/2-SP.1408/3
	<b>Line</b> 63062 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.25			DOC:	1E35-65-1103		
	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
1541	4	0	In	2,11	mm	,00	18,00	m	216	Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316		107,21	
454	4	0	In		mm	,00	3,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged	5138	16,80	
			·							ASTM A 105 Galvanized			
353	4	0	In	2,11	mm	,00	4,00	NR	216	90° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403		5,60	
								_		GR. WP316		*	
1234	4	0	In	2,11	mm	,00	3,00	NR	216	Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR.		1,87	
	,									WP316 Type A		-	
5138	5/8	0	In		mm	110,00	16,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		4,00	
	,									ASTM A 193 B7/A194 2H Galvanized		-	
718	4	0	In		mm	,00	2,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F			
								•	N	M Erection	Total Kg:	135,49	
SZ1	PIPING	BOM SA	BIZ		63063	- 0			A A	AREA A 1/1	TOTAL Kg:	135,49	

KV_63.12	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	SP.1406/2-SP.1408/3
	<b>Line</b> 63063 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Ballestra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.12.26		DOC:	1E35-65-1103		
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
1457	6	0	In	3,96	mm	,00	16,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		256,77	
475	6	0	In		mm	,00	2,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forg	ed 5214	15,00	
				'						ASTM A 105		<u>'</u>	'
133	6	0	In	3,96	mm	,00	1,00	NR	212	45° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 (	GR.	2,85	
				'				_		WPB			
301	6	0	In	3,96	mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 0	BR.	5,66	
						_		'		WPB		,	
5214	3/4	0	In		mm	100,00	12,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB.	9	10,08	
						-				ASTM A 193 B7/ASTM A 194 GR.2H		<u> </u>	
701	6	0	In		mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
	·								N	M Erection	Total Kg:	290,37	
SZ1	PIPING	BOM SA	BIZ		63064	- 0			A A	AREA A 1/1	TOTAL Kg:	290,37	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	SP.1406/2-SP.1407/3
<b>Line</b> 63064 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		F	Ballesti	ra					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3	35	<b>REV:</b> 0	16/11/2010
	PUMA	<b>A</b> 5		16/11/20	010 10.12	2.26							DO	: 1E3	35-65-1103		
			Bal	llestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Ten	<b>ıр:</b> °С	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.l	oly Branch
1541	4	0	In	2,11		mm	,00	16,00		216	Pipe ASME B36.19 PL E.R.W. ASTM A	A 312 TP 3	16			95,30	
454	4	0	In			mm	,00	3,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB I ASTM A 105 Galvanized	Flat Face S	mooth Fo	ged	5138	16,80	
185	4	0	In	2,11		mm	,00	1,00	NR	216	45° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrough	t W ASTN	A 403		0,69	
353	4	0	In	2,11		mm	,00	2,00	NR	216	90° Elbow Long Radius ASME B16.9 B GR. WP316	E Wrough	t W ASTN	A 403		2,80	
1234	4	0	In	2,11		mm	,00	3,00	NR	216	Stub-End MSS SP-43 FLG x BE Wroug WP316 Type A	ht W AST	M A 403 C	R.		1,87	
5138	5/8	0	In			mm	110,00	24,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/A194 2H Galvanized	E B18.2.1 V	UNC/2.2 T	AB. 9		6,00	

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5F

1 / 1

,00

3,00 NR 216

Α

mm

63065 - 0

718

SZ1

0

PIPING BOM SABIZ

KV_63.10	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	n SP.1406/2-SP.1408/3
	<b>Line</b> 63065 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Total Kg:

TOTAL Kg:

123,46

	Balle	estra		SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
	PUMA5	16/11/2010 10.12.26				DOC:	1E35-65-1103		
		Ballestra		SULPHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	Corr: mm
Mark	S1 S2	T1 T2	Len mm	Oty Um Pip. class Component			Gen. Bolt	Weight (Kg) As	.bly Branch

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) A	As.bly	Br
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		6,33		
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# Forged ASTM A 105		0,28		
										M	Erection	Total Kg:	8,31		
SZ1	PIPING I	BOM SAI	BIZ			63101 -	- 0			A A	REA A 1 / 1	TOTAL Kg:	8,31		

63Y11	Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	n SP.1406/2-SP.1407/2
63Y13 63Y15	<b>Line</b> 63101 - 0	Fluid	System	
63Y15	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allesti	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
	PUMA	5		16/11/20	010 10.12	.26							DOC:	1E35-65-1103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In T	hk: mm	Temp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg) As.	bly Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 51	L GR. B			6,33	
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged		0,30	
4687	1/2	0	In			mm	,00	1,00	NR	203	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTM A	A 105		0,28	
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105			0,38	
			•	,						N	I Erection			Total Kg:	7,29	
SZ1	PIPING	BOM SA	ABIZ			63102 -	- 0			A A	AREA A 1 /	1		TOTAL Kg:	7,29	

63Y14 Line 63102 - 0 Fluid System 63Y16 Dang, fluid type Coating De pres Op tem  Area AREA A Sketch Sht 1/1 Isometric code Page	63Y12	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
Duning mind type Counting De pres Op tem		<b>Line</b> 63102 - 0	Fluid	System	
Area ARFA Sketch Sht 1/1 Isometric code Poge	63Y16	Dang. fluid type	Coating	De pres	Op tem
incu incurre out 1/1 isometre out 1/2		Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones		Zones			

		В	allestra	a					S	KETCH	ES MATERIAL LIST		PROJ	I: 1E35	5	<b>REV:</b> 0	16	5/11/2010
	PUMA:	5		16/11/20	10 10.12	.26							DOC:	1E35	5-65-1103			
			Balle	estra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp	o: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	Ac bly	Branch
1433	1/2	0	In	2,77	12	mm	.00	7,00		203	Pipe ASME B36.10 PL Seamless API 51	CD D			Gen. Bon	8,86	AS.DIY	Diancii
1433	1/2	U	111	2,11		111111	,00	7,00	111	203	Pipe ASME B30.10 PL Seamless API 31	L GK. D				0,00		
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD	-F NPT 20	00 LB Forge	d		0,30		
		1	1							1	BRASS NICKEL PLATED S 87				'			
3174	1/2	0	In			mm	,00	1,00	NR	203	Strainer Y-Type ST.46326/4 THRD-F N	NPT 200 L	B Forged BI	RONZE		0,50		
											F 70		C					
465	1/2	0	In			mm	.00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB R	F (125÷250	) AARH) Fo	orged	5191	0,40		
							,			1	ASTM A 105			2		-, -		
4687	1/2	0	In			mm	.00	1.00	NR	203	Tee Straight TA 50.6/1 SW-F 3000# For	rged ASTN	I A 105			0,28		

AREA A

Coupling Half TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

1 / 1

Union TA 50.6/1 SW-F 3000# Forged ASTM A 105

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

ASTM A 193 B7/ASTM A 194 GR.2H

mm

mm

mm

mm

63103 - 0

,00

,00

,00

65,00

1,00 NR 203

1,00 NR 203

4,00 NR 203

1,00 NR 203

A

1124

1289

5191

659

SZ1

1/2

1/2

1/2

1/2

0

PIPING BOM SABIZ

KV_63.1	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
PI_63.1	<b>Line</b> 63103 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			_

0,06

0,38

0,44

11,22

11,22

Total Kg:

TOTAL Kg:

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.27		DOC:	1E35-65-110	3	
	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) A	s.bly	Branch
1433	1/2	0	In	2,77	mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		6,33		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
			•						N	1 Erection	Total Kg:	8,03		
SZ1	PIPING	BOM SAI	BIZ		63105	- 0	A AREA A		A A	AREA A 1/1	TOTAL Kg:	8,03		

KY_63.15	Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
	<b>Line</b> 63105 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.27		DOC:	1E35-65-1103		
	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) A	s.bly	Branch
1433	1/2	0	In	2,77	mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		6,33		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
			•						N	1 Erection	Total Kg:	8,03		
SZ1	PIPING	BOM SAI	BIZ		63106	- 0	A AREA A		A A	AREA A 1/1	TOTAL Kg:	8,03		

KY_63.16	Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	n SP.1406/2-SP.1407/2
	<b>Line</b> 63106 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.27		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temp: °C P	res: BAR	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As	s.bly I	Branch
1433	1/2	0	In	2,77		mm	,00	3,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		3,80		
										N	1 Erection	Total Kg	3,8		
SZ1	PIPING	BOM SA	BIZ		(	63107 - 0	0			A A	REA A 1/1	TOTAL Kg	3,8		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63107 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		Ва	allestra	a					S	KETCH	ES MATERIAL LIST		PRO.	1E35	5	<b>REV:</b> 0 16	/11/2010
	PUMA5	i		16/11/20	10 10.12	.27		DC							5-65-1103		
			Balle	estra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp	): °C	Pres: BAR C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1431	1/4	0	In	2,24		mm	,00	0,20	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B				0,13	
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5	GR. B				6,33	
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM	A 105 G 6			3,40	
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTN	1 A 105			0,28	
4447	1/2	1/4	In			mm	,00	1,00	NR	205	Coupling Reducing TA 50.6/1 SW-F 30	00# Forgeo	ASTM A	.05		0,03	

1 / 1

M Erection

AREA A

Α

PIPING BOM SABIZ

SZ1

63108 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63108 - 0
Plant SZ1 Piping Class 205
Plind System

Dang, fluid type
Coating
De pres
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Total Kg:

TOTAL Kg:

10,17

		В	allesti	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 10	6/11/2010
	PUMA	.5		16/11/2	010 10.12	2.28							DOC:	1E35-65-1	103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp: °C		Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Gen.	Bolt	Weight (Kg) As.bly	Branch
1435	1	0	In	3,38		mm	,00	2,00	m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				5,00	
467	1	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	) AARH) For	ged 5192		0,80	
324	1	0	In	3,38		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	t S ASTM A	234		0,14	
5192	1/2	0	In			mm	70,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAI	3.9		0,44	
661	1	0	In			mm	,00	1,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷25)	O AARH) _	B5C				
						'	-			N	I Erection			Tota	al Kg:	6,38	'

AREA A

PIPING BOM SABIZ

SZ1

63109 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class	203	Welding specification SP.1406/2-SP.1407/3			
Line 63109 - 0	Fluid	System				
Dang. fluid type	Coating	De pres	Op tem			
Area	AREA	Sketch Sht	1/1	Isometric code	Page	1
Zones						

1 / 1

TOTAL Kg:

		В	allestr	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	11/2010
	PUMA	15		16/11/20	010 10.12	2.28	1						DOC:	1E35-65-	-1103			
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp: °C		Pres: BAR	Co	orr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Ge	en. Bolt	Weight (Kg) A	s.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				6,33		
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	A 105 G 61			3,40		
465	1/2	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH) For	rged 519	91	0,40		
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTM	A 105			0,28		
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	INC/2.2 TAI	B. 9		0,44		
659	1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250	O AARH) _	B5C					

1/1

M Erection

AREA A

Α

63110 - 0

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 63110 - 0
Fluid
Dang, fluid type
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

Total Kg:

TOTAL Kg:

10,85

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.28		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temp: °C P	res: BAR	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) A	s.bly	Branch
1433	1/2	0	In	2,77		mm	,00	3,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		3,80		
			•			•				N	1 Erection	Total Kg:	3,8		
SZ1	PIPING	BOM SA	BIZ			63111 -	0			A A	AREA A 1/1	TOTAL Kg:	3,8		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
Line 63111 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestra	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA	<b>\</b> 5		16/11/2	010 10.12	2.28							DOC:	1E35-	-65-1103			
			Balle	estra						SUI	LPHUREX GH/F	Size: In T	hk: mm	Temp:	°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2	I	Len mm	Qt	y Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	9,:	0 m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B				23,77		
3109	1	0	In			mm	,00	1,0	00 NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM A	105 G 61			3,30		
467	1	0	In			mm	,00	1,0	00 NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 A	AARH) For	ged	5192	0,80		
156	1	0	In	3,38		mm	,00	1,0	00 NR	205	45° Elbow Long Radius ASME B16.9 E GR. WPB	BE Wrought S	ASTM A	234		0,07		

90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

ASTM A 193 B7/ASTM A 194 GR.2H

				M Erection		Total Kg:	29,19
SZ1	PIPING BOM SABIZ	63112 - 0	A	AREA A	1/1	TOTAL Kg:	29,19

6,00 NR 205

4,00 NR 205

1,00 NR 205

,00

,00

70,00

mm

mm

mm

3,38

0

0

1/2

324

5192

661

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
Line 63112 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

0,81

		В	allestra	a					\$	SKET	HES MATERIAL LIST		PI	ROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	.28							De	OC:	1E35-6	55-1103			
			Balle	estra							LPHUREX GH/F	Size: In	Thk: m	m	Temp: °	С	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mn	n Ot	Un	ı Pip. cla	Component				(	Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	2,0	0 m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B					5,00		
3109	1	0	In			mm	,00	1,0	0 NF	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM	I A 105	G 61			3,30		
467	1	0	In			mm	,00	1,0	0 NF	205	Flange Slip-On ASME B16.5 150 LB F ASTM A 105	RF (125÷25	0 AARI	I) Forg	ged 5	5192	0,80		
324	1	0	In	3,38		mm	,00	4,0	0 NF	205	90° Elbow Long Radius ASME B16.9 GR. WPB	BE Wrough	nt S AST	M A 2	234		0,54		
5192	1/2	0	In			mm	70,00	4,0	0 NF	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASM	E B18.2.1	UNC/2.	2 TAB	3.9		0,44		

AREA A

661

SZ1

PIPING BOM SABIZ

mm

63113 - 0

,00

1,00 NR 205

A

ASTM A 193 B7/ASTM A 194 GR.2H

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

1 / 1

Total Kg:

TOTAL Kg:

10,09

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specificatio	n SP.1406/2-SP.1407/2
<b>Line</b> 63113 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.29		DOC:	1E35-65-1103		
	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	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR	t. B		6,33	
	·			•			_			N	1 Erection		Total Kg:	6,33	
SZ1	PIPING	BOM SA	BIZ		(	63114 -	0			A A	AREA A 1 / 1	T	OTAL Kg:	6,33	

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63114 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Ballestra								SKETCHES MATERIAL LIST PROJ: 1E3								<b>REV:</b> 0	16/1	1/2010
PUMA5 16/11/2010 10.12					.29								1E35-6	1E35-65-1103				
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp: °	C	Pres: BAR	Cor	rr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			(	Gen. Bolt	Weight (Kg)	s.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B				6,33		
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM A	A 105 G 61			3,40		
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	rged ASTM	A 105			0,28		
4447	1/2	1/4	In			mm	.00	1,00	NR	205	Coupling Reducing TA 50.6/1 SW-F 30	00# Forged	ASTM A 10	)5		0.03		

1 / 1

M Erection

AREA A

Α

SZ1

PIPING BOM SABIZ

63115 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63115 - 0
Fluid
System
Dang, fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

Total Kg:

TOTAL Kg:

10,04

		В	allestr	a						SKETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/20	010 10.12	.29							DOC:	1E35-	65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bl	y Branch
1435	1	0	In	3,38		mm	,00	3,00	m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				7,51	
467	1	0	In			mm	,00	1,00	NF	203	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH) For	ged	5192	0,80	
324	1	0	In	3,38		mm	,00	1,00	NF	203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought	S ASTM A	234		0,14	
5192	1/2	0	In			mm	70,00	4,00	NF	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAI	3.9		0,44	
661	1	0	In			mm	,00	1,00	NF	203	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5C				
					'					N	1 Erection				Total Kg:	8,88	

AREA A

PIPING BOM SABIZ

SZ1

63116 - 0

Plant SZ1 PIPING BOM SABIZPiping Class 203Welding specification SP.1406/2-SP.1407/3Line 63116 - 0FluidSystemDang. fluid typeCoatingDe presOp temArea AREA ASketch Sht 1/1Isometric codePage 1Zones

1 / 1

TOTAL Kg:

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35	REV: 0	16	5/11/2010
	PUMA	<b>A</b> 5		16/11/20	010 10.12	2.29	1						DOC:	1E35-65-1103	,		
			Ball	lestra						SU	LPHUREX GH/F	Size: In Thk	; mm	<b>Temp:</b> °C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bo	lt Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B			6,33		
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM A 10	5 G 61		3,40		
465	1/2	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 AA	RH) Forg	ged 5191	0,40		
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	rged ASTM A 1	05		0,28		1
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UNC	2.2 TAB	. 9	0,44		
659	1/2.	0	In			mm	.00	1.00	NR	205	Gasket TA 50 5/31 150 LB RF (125-25)	O AARH) B50	1				

M Erection

AREA A

Α

63117 - 0

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 63117 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Total Kg:

TOTAL Kg:

10,85

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.12.30			DOC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR		Corr: mm

Mark	S1	S2		T1	T2	Len mr	n Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As	.bly Branch
1433	1/2	0	In	2,77	n	m ,0	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		6,33	
			·						N	1 Erection	Total Kg:	6,33	
SZ1	PIPING	BOM SA	BIZ		6.	118 - 0			A A	AREA A 1/1	TOTAL Kg:	6,33	

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63118 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		F	Ballestr	a					,	SKETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	6/11/2010
	PUMA	.5		16/11/20	10 10.12	2.30							DOC:	1E35	-65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mn	ı Qty	Un	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,0	0 m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				6,33	
2828	1/2	0	In			mm	,00,	1,0	O NI	R 203	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	00 LB Forge	1		0,30	
3174	1/2	0	In			mm	,00	1,0	O NI	R 203	Strainer Y-Type ST.46326/4 THRD-F N F 70	NPT 200 L	B Forged BF	RONZE		0,50	

Tee Straight TA 50.6/1 SW-F 3000# Forged ASTM A 105

Union TA 50.6/1 SW-F 3000# Forged ASTM A 105

				M Erection		Total Kg:	7,79
SZ1	PIPING BOM SABIZ	63120 - 0	A	AREA A	1/1	TOTAL Kg:	7,79

,00

,00

mm

mm

1,00 NR 203

1,00 NR 203

4687

1289

1/2

1/2

0

Piping Class 203 Welding specification SP.1406/2-SP.1407/3 Plant SZ1 PIPING BOM SABIZ Line 63120 - 0 Fluid System Dang. fluid type Coating De pres Op tem Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

0,28

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>I:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.30		DOC	: 1E35-65-1103		
	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	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		3,80		
									N	A Erection	Total K	g: 3,8		
SZ1	PIPING	BOM SAI	BIZ		6312	1 - 0			A A	AREA A 1 / 1	TOTAL K	g: 3,8		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63121 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

	SKETCHES MATERIAL LIST	i Kos.	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.12.30		DOC:	1E35-65-1103		
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 B	Branch
1433	1/2	0	In	2,77	mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		6,33		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
	·	·							N	1 Erection	Total Kg:	8,03		
SZ1	PIPING	BOM SA	BIZ		63124	- 0			A A	AREA A 1/1	TOTAL Kg:	8,03		

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 63124 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		Bal	llestra						S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 1	6/11/2010
	PUMA5	í	1	16/11/20	10 10.12.	30							DOC:	1E35-	65-1103	-	
			Balles	stra						SUI	PHUREX 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	7,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B				8,86	
2107	1/2	0	T.,,				00	2.00	NID	205	V-1 C-+- CT 46070/2 CW E 900# E	1 A CTN	A 105 C (1			2.40	

SZ1	PIPING B	SOM SAI	BIZ		(	63125 -	- 0			A	AREA A	1/1	TOTAL Kg:	12,54	J
											M Erection		Total Kg:	12,54	l
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6	5/1 SW-F 3000# Forged ASTM A 105		0,28	
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.4627	0/3 SW-F 800# Forged ASTM A 105 G 6		3,40	
1433	1/2	0	In	2,77		mm	,00	7,00	m	205	Pipe ASME B36.10	PL Seamless API 5L GR. B		8,86	

Plant SZ1 PIPING BOM SABIZ
Line 63125 - 0
Fluid
System
Dang, fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	010 10.12	.30	1						DOC:	1E35-	-65-1103			
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1						Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00		205	Pipe ASME B36.10 PL Seamless API 51	L GR. B				6,33		
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM A	105 G 61			1,70		
466	3/4	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH) For	ged	5191	0,70		
1748	3/4	1/2	In	2,87	2,77	mm	,00	1,00	NR	205	Reducer Concentric ASME B16.9 BE W WPB	rought S AS	STM A 234	GR.		0,06		
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	NC/2.2 TAE	3.9		0,44		
660	3/4	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250	0 AARH) _ 1	B5C					

M Erection

AREA A

A

63126 - 0

PIPING BOM SABIZ

SZ1

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	n SP.1406/2-SP.1407/2
<b>Line</b> 63126 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	<b>Sketch Sht</b> 1 / 1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

9,23

		В	allestra	1					SI	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	10 10.12	2.31							DOC:	1E35	-65-1103			
			Balle	stra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp	°C	Pres: BAR	C	orr: 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	7,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B				8,86		
3107	1/2	0	In			mm	,00	4,00	NR :	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM	A 105 G 61			6,80		
4942	1/2	0	In			mm	,00	1,00	NR :	205	Steam Trap ST.46212/3 SW-F 300 LB F	Forged ASTI	M A 105 T 6	66		0,80		
466	3/4	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	AARH) For	ged	5191	0,70		

Reducer Concentric ASME B16.9 BE Wrought S ASTM A 234 GR.

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

Tee Straight TA 50.6/1 SW-F 3000# Forged ASTM A 105

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

ASTM A 193 B7/ASTM A 194 GR.2H

SZ1	PIPING BOM SABIZ	63127 - 0	A AREA A	1 / 1	TOTAL Kg: 18,5

WPB

M Erection

1748

4687

5191

660

3/4

1/2

1/2

3/4

1/2

0

0

In

2,87

2,77

mm

mm

mm

,00

,00

,00

65,00

1,00 NR 205

3,00 NR 205

4,00 NR 205

1,00 NR 205

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 63127 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

0,06

0,84

0,44

18,5

Total Kg:

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	.31	1						DOC:	1E35-	-65-1103		-	
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		Т1	T2		Len mm	Otv	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	Ac bly	Branch
1431	1/4	0	In	2,24	12	mm	,00			203	Pipe ASME B36.10 PL Seamless API 51	GR. B			Gen. Bon	0,13	AS.DIY	Dranch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5I	L GR. B				6,33		
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD-	F NPT 200	LB Forged	l		0,30		
								_			BRASS NICKEL PLATED S 87							
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105				0,38		
4447	1/2	1/4	In			mm	,00	1,00	NR	203	Coupling Reducing TA 50.6/1 SW-F 30	00# Forged	ASTM A 10	05		0,03		
					•					N	1 Erection				Total Kg:	7,17		

AREA A

1 / 1

TOTAL Kg:

7,17

SZ1

PIPING BOM SABIZ

63128 - 0

Plant SZ1 PIPING BOM SABIZ
Piping Class 203
Welding specification SP.1406/2-SP.1407/3
Line 63128 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	.31	1						DOC:	1E35-	-65-1103		-	
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		Т1	T2		Len mm	Otv	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	Ac bly	Branch
1431	1/4	0	In	2,24	12	mm	,00			203	Pipe ASME B36.10 PL Seamless API 51	GR. B			Gen. Bon	0,13	AS.DIY	Dranch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5I	L GR. B				6,33		
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD-	F NPT 200	LB Forged	l		0,30		
								_			BRASS NICKEL PLATED S 87							
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105				0,38		
4447	1/2	1/4	In			mm	,00	1,00	NR	203	Coupling Reducing TA 50.6/1 SW-F 30	00# Forged	ASTM A 10	05		0,03		
					•					N	1 Erection				Total Kg:	7,17		

AREA A

1 / 1

TOTAL Kg:

7,17

SZ1

PIPING BOM SABIZ

63129 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63129 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PRO.	1E35	i	REV:	0 16	5/11/2010
	PUMA	.5		16/11/2	010 10.1	12.32							DOC	1E35	5-65-1103	•		
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	: °C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2		T	04	<b>T</b> T	Di1	C				Gen. Bolt	W-:-L4 (V	-) A - 1-1	D
Mark	91	52		11	12		Len mm			Pip. class	Component				Gen. Bolt	Weight (Kg	(3) As.Diy	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 51	L GR. B				6,33	3	
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD-	F NPT 20	0 LB Forge	d		0,30	)	
		_			-		-				BRASS NICKEL PLATED S 87						-	
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 10	)5			0,38	3	
		•		•	*	•		-		N	1 Erection				Total Kg:	7,0	1	

TOTAL Kg:

7,01

AREA A

Α

63130 - 0

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 63130 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		F	Ballestr	ra					S	KETCH	ES MATERIAL LIST		PROJ	1E35		<b>REV:</b> 0 10	6/11/2010
	PUMA	.5		16/11/20	010 10.12	2.32							DOC:	1E35-65-11	103		
			Ball	lestra						SUI	PHUREX 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	5,00	m	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				6,33	
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD-BRASS NICKEL PLATED S 87	F NPT 20	00 LB Forged			0,30	

Mark	S1	S2		T1	T2		Len mm	Qty	Un	n Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		6,33		
2828	1/2	0	In			mm	,00	1,00	Ni	R 203	Valve Ball Full Port ST.46330/3 THRD-F NPT 200 LB Forged		0,30		
											BRASS NICKEL PLATED S 87				
3174	1/2	0	In			mm	,00	1,00	NI	R 203	Strainer Y-Type ST.46326/4 THRD-F NPT 200 LB Forged BRONZE		0,50		
							•		_		F 70				
4687	1/2	0	In			mm	,00	1,00	NI	R 203	Tee Straight TA 50.6/1 SW-F 3000# Forged ASTM A 105		0,28		
1289	1/2	0	In			mm	,00	1,00	Ni	R 203	Union TA 50.6/1 SW-F 3000# Forged ASTM A 105		0,38		
			·							N	M Erection	Total Kg:	7,79		
SZ1	PIPING	BOM SA	BIZ			63131	- 0			A A	AREA A 1/1	TOTAL Kg:	7,79		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
<b>Line</b> 63131 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>I:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.32		DOC	: 1E35-65-1103		
	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	mn	,00	4,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		5,06	
			·						N	1 Erection	Total Kg:	5,06	
SZ1	PIPING	BOM SA	BIZ		631	32 - 0			A A	REA A 1 / 1	TOTAL Kg:	5,06	

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specificatio	n SP.1406/2-SP.1407/3
<b>Line</b> 63132 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a						SKETCI	HES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	6/11/2010
	PUMA	5		16/11/20	010 10.12	2.32							DOC:	1E35	-65-1103		
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mn	ı Qt	y Uı	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,0	0 n	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				6,33	
2828	1/2	0	In			mm	,00	1,0	0 N	R 203	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	-F NPT 20	00 LB Forge	i		0,30	
3174	1/2	0	In			mm	,00	1,0	0 N	R 203	Strainer Y-Type ST.46326/4 THRD-F F 70	NPT 200 L	B Forged BF	RONZE		0,50	

Tee Straight TA 50.6/1 SW-F 3000# Forged ASTM A 105

Union TA 50.6/1 SW-F 3000# Forged ASTM A 105

SZ1	PIPING BOM SABIZ	63135 - 0	A	AREA A	1 / 1	TOTAL Kg:	7,79

M Erection

1,00 NR 203

1,00 NR 203

,00

,00

mm

mm

4687

1289

1/2

1/2

Plant SZ1 PIPING BOM SABIZ
Line 63135 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

0,28

0,38

7,79

Total Kg:

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>I:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.32		DOC	: 1E35-65-1103		
	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	4,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		5,06	
			•							N	1 Erection	Total Kg:	5,06	
SZ1	PIPING	BOM SA	BIZ		(	63136 - (	0			A A	AREA A 1 / 1	TOTAL Kg:	5,06	

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63136 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PR	<b>OJ:</b> 1E3	35	<b>REV:</b> 0 1	16/11/2010
	PUMA	5		16/11/20	10 10.12	.32							DO	<b>C:</b> 1E3	35-65-1103		
			Balle	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Ten	np: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	ı Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5	GR. B				6,33	
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD	F NPT 20	00 LB Fo	ged		0,30	
		'									BRASS NICKEL PLATED S 87				'		
4687	1/2	0	In			mm	,00	1,00	NR	203	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTN	M A 105			0,28	
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 10	05			0,38	
			•		•	•				N	1 Erection				Total Kg:	7,29	

TOTAL Kg:

7,29

AREA A

Α

SZ1

PIPING BOM SABIZ

63139 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63139 - 0
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

		В	allesti	ra					S	KETCH	IES MATERIAL LIST	]	PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	2.33						]	DOC:	1E35-65-1	1103			
	Ballestra SULPHUREX GH/F Size: ln Thk; mm T										Temp: °C		Pres: BAR	C	Corr: mm			
Mark	S1	S2		T1	Т2		Len mm	Otv	Um	Pip. class	Component			Gen	. Bolt	Weight (Kg)	As.blv	Branch
1433	1/2	0	In	2,77		mm	,00		_	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				3,80		
3116	1/2	0	In			mm	,00	1,00	NR	203	Valve Globe ST.46004/3 THRD-F NPT	200 LB Forged	BRONZ	Œ D		0,70		
1056	1/2	0	In			mm	,00	1,00	NR	203	Coupling TA 50.7/2 THRD-F NPT 300	0# Forged ASTN	M A 105			0,12		
1289	1/2	0	In			mm	,00,	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105				0,38		
			•							N	1 Erection			To	tal Kg:	5,		

TOTAL Kg:

5,

AREA A

PIPING BOM SABIZ

63140 - 0

SZ1

PI_63.12	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 63140 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	Ballestı	a					S	SKETCH	IES MATERIAL LIST	PRO	<b>J:</b> 1E35	5	<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	2.33						DOG	C: 1E35	5-65-1103	•	•	
			Bal	lestra						SU	LPHUREX GH/F	Size: In Thk: mm	Temp	): °C	Pres: BAR	C	orr: mm
Mark	S1	S2		Т1	T2		Len mm	Ots	Un	Pip. class	Component			Gen. Bolt	Weight (Kg)	Ac bly	Branch
1433	1/2	0	In	2,77	12	mm	,00		_	203	Pipe ASME B36.10 PL Seamless API 51	L GR. B		GCII. BOIL	6,33	15.DIy	Dranen
2828	1/2	0	In			mm	,00	1,0	) NR	203	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	-F NPT 200 LB Forg	ed		0,30		
4687	1/2	0	In			mm	,00	1,0	) NR	203	Tee Straight TA 50.6/1 SW-F 3000# For	rged ASTM A 105			0,28		
1289	1/2	0	In			mm	,00	1,0	) NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105			0,38		
			·		·					N	M Erection			Total Kg:	7,29		

AREA A

Α

SZ1

PIPING BOM SABIZ

63141 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63141 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 203
Pipin

TOTAL Kg:

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA	5		16/11/20	010 10.12	.33							DOC:	1E35-65-1	1103			
			Ball	estra						SU	LPHUREX GH/F	Size: In T	hk: mm	Temp: °C		Pres: BAR	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	ı Ot	Um	Pip. class	Component			Gen	ı. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	1	_	203	Pipe ASME B36.10 PL Seamless API 51	L GR. B				3,80		
3116	1/2	0	In			mm	,00	1,0	0 NR	203	Valve Globe ST.46004/3 THRD-F NPT 51	200 LB Forg	ged BRONZ	ZE D		0,70		
1056	1/2	0	In			mm	,00	1,0	) NR	203	Coupling TA 50.7/2 THRD-F NPT 300	0# Forged AS	TM A 105			0,12		
1289	1/2	0	In			mm	,00	1,0	) NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105				0,38		
	·		•							N	A Erection			То	tal Kg:	5,		
SZ1	PIPING	BOM SA	ABIZ			63142	- 0			A A	AREA A 1 /	1		TOTA	AL Kg:	5,		

PI_63.12B	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 63142 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PR	<b>OJ:</b> 1	E35	REV:	) 16	5/11/2010
	PUMA	5		16/11/20	010 10.1	2.33							DO	<b>C</b> : 1	E35-65-1103			
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm	T	Г <b>етр:</b> °С	Pres: BAR	(	Corr: mm
							_	1		1								
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	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				6,33		
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD	F NPT 20	00 LB Fo	ged		0,30		
	'										BRASS NICKEL PLATED S 87					•	_	
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 10	)5			0,38		
	•		•	·	•					N	1 Erection				Total Kg	7,01		

TOTAL Kg:

7,01

AREA A

Α

SZ1

PIPING BOM SABIZ

63144 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63144 - 0
Fluid
System
Dang. fluid type
Coating
Pepres
Op tem
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	REV:	0 16	5/11/2010
	PUMA	.5		16/11/20	010 10.12	.34							DOC:	1E35-65-110	)3		
			Ball	lestra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	T2		Len mn	n Qty	Um	Pip. class	Component			Gen. B	olt Weight (Kg	) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B			6,33	1	
2107	1 /2	0	τ				00	1.00	NID	205	V-1 C-+- CT 46070/2 CW/ E 900# E	1 A CTN	I A 105 C C1		1.70		

SZ1	PIPING B	OM SAI	BIZ		63145	- 0			A	AREA A	1 / 1	TOTAL Kg:	8,31	L
										M Erection		Total Kg:	8,31	Į
4687	1/2	0	In		mm	,00	1,00	NR	205	Tee Straight TA 50.	6/1 SW-F 3000# Forged ASTM A 105		0,28	,
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.4627	70/3 SW-F 800# Forged ASTM A 105 G 6	1	1,70	,
1433	1/2	U	111	2,11	111111	,00	3,00	111	203	ripe ASME B30.10	FL Scainless AFI JL GR. B		0,33	

Plant SZ1 PIPING BOM SABIZ
Line 63145 - 0
Dang. fluid type
Area AREA A
Sketch Sht 1/1
System
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Fluid
System
De pres
Op tem
Page 1
Zones

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/	11/2010
	PUMA	.5		16/11/20	010 10.12	.34							DOC:	1E35-65-1103			
			Ball	lestra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	Co	orr: 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	4,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B			5,06		
2107	1 /0	0	Y				00	1.00	3.70	205	V. 1 . C . CT 46070/2 CVV E 000// E	1 4 000	1 105 0 61		1.70		

1433	1/2	0	In	2,77	mm	,00	4,00	m	205	Pipe ASME B36.10 P	L Seamless API 5L GR. B		5,06	
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/	/3 SW-F 800# Forged ASTM A 105 G 61		1,70	
4687	1/2	0	In		mm	,00	1,00	NR	205	Tee Straight TA 50.6/	1 SW-F 3000# Forged ASTM A 105		0,28	
										M Erection		Total Kg:	7,04	
SZ1	PIPING E	SOM S	ABIZ		63146 -	- 0			A	AREA A	1/1	TOTAL Kg:	7,04	J

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 63146 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		F	Ballestı	a					S	KETCH	IES MATERIAL LIST	•	PI	ROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	010 10.12	2.34	1						D	OC:	1E35-65	5-1103		<u>.</u>	
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mi	n	Temp: °C		Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Ge	en. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	12,00	m	205	Pipe ASME B36.10 PL Seamless API 5I	GR. B					30,03		
3109	1	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	A 105	G 61			6,60		
3188	1	0	In			mm	,00	1,00	NR	205	Strainer Y-Type ST.46276/1 SW-F 800#	Forged A	STM A	105 F	F 69		1,40		
467	1	0	In			mm	,00	3,00	NR	205	Flange Slip-On ASME B16.5 150 LB RI	F (125÷250	) AARE	() For	ged 51	192	2,40		
						,					ASTM A 105						'		
156	1	0	In	3,38		mm	,00	1,00	NR	205	45° Elbow Long Radius ASME B16.9 B	E Wrough	t S AST	M A	234		0,07		
						,	-				GR. WPB						'		
324	1	0	In	3,38		mm	,00	4,00	NR	205	90° Elbow Long Radius ASME B16.9 B	E Wrough	t S AST	M A	234		0,54		
											GR. WPB								
5192	1/2	0	In			mm	70,00	12,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 T	UNC/2.2	2 TAE	3.9		1,32		

M Erection

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

1 / 1

3,00 NR 205

A

mm

63151 - 0

661

PIPING BOM SABIZ

TV_63.1A	Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	SP.1406/2-SP.1407/2
63Y6A	<b>Line</b> 63151 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Total Kg:

TOTAL Kg:

42,35 42,35

Ball	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.34		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temn• °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	0,30	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,38	
1435	1	0	In	3,38	mm	,00	10,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		25,02	
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70	
3109	1	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		3,30	
4944	1	0	In		mm	,00	1,00	NR	205	Steam Trap ST.46212/3 SW-F 300 LB Forged ASTM A 105 T 66		3,40	
467	1	0	In		mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5192	0,80	
										ASTM A 105			
324	1	0	In	3,38	mm	,00	6,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234		0,81	
										GR. WPB		<u>'</u>	
5192	1/2	0	In		mm	70,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		0,44	
										ASTM A 193 B7/ASTM A 194 GR.2H		<u>'</u>	
661	1	0	In		mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C			
								•	N	M Erection	Total Kg:	35,85	
SZ1	PIPING	BOM SA	BIZ		63152 -	- 0			A A	AREA A 1 / 1	TOTAL Kg:	35,85	

63Y7A	Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specificatio	n SP.1406/2-SP.1407/2
	<b>Line</b> 63152 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	10 10.12	2.34							DOC:	1E35-0	65-1103	•		
			Ball	lestra						SU	LPHUREX GH/F	Size: In T	hk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	12,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B				30,03		
3109	1	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM A	105 G 61			6,60		
3188	1	0	In			mm	,00	1,00	NR	205	Strainer Y-Type ST.46276/1 SW-F 800#	Forged AST	M A 105 F	69		1,40		
467	1	0	In			mm	,00	3,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 A	ARH) Forg	ged :	5192	2,40		
156	1	0	In	3,38		mm	,00	1,00	NR	205	45° Elbow Long Radius ASME B16.9 E GR. WPB	BE Wrought S	ASTM A 2	234		0,07		
324	1	0	In	3,38		mm	,00	4,00	NR	205	90° Elbow Long Radius ASME B16.9 E GR. WPB	BE Wrought S	ASTM A 2	234		0,54		
5192	1/2	0	In			mm	70,00	12,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UN	IC/2.2 TAB	3. 9		1,32		
661	1	0	In			mm	,00	3,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH) _ B	5C					

M Erection

AREA A

A

SZ1

PIPING BOM SABIZ

63153 - 0

TV_63.1B	Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	SP.1406/2-SP.1407/2
63Y6B	<b>Line</b> 63153 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Total Kg:

TOTAL Kg:

1 / 1

42,35

Ball	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.34		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temp: °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Otv	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.blv	Branch
1433	1/2	0	In	2,77	mm	,00	0,30		205	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,38		
1435	1	0	In	3,38	mm	,00	10,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		25,02		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
3109	1	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		3,30		
4944	1	0	In		mm	,00	1,00	NR	205	Steam Trap ST.46212/3 SW-F 300 LB Forged ASTM A 105 T 66		3,40		
467	1	0	In		mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5192	0,80		
156	1	0	In	3,38	mm	,00	1,00	NR	205	45° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		0,07		
324	1	0	In	3,38	mm	,00	6,00	NR	205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		0,81		
5192	1/2	0	In		mm	70,00	4,00	NR	205	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		0,44		
661	1	0	In		mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C				
	II.				1				N	M Erection	Total Kg:	35,92		
SZ1	PIPING	BOM SA	BIZ		63154 -	0			A A	AREA A 1/1	TOTAL Kg:	35,92		

63Y7B	Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	n SP.1406/2-SP.1407/2
	<b>Line</b> 63154 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PRO.	: 1E35	j	<b>REV:</b> 0	16/	/11/2010
	PUMA	5		16/11/20	010 10.12	2.35							DOC	1E35	5-65-1103		•	
	Ballestra									SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	): °C	Pres: BAR	C	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	203	Pipe ASME B36.10 PL Seamless API 51	GR. B				3,80		
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD-BRASS NICKEL PLATED S 87	F NPT 200	LB Forge	d		0,30		
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105	i			0,38		
										N	I Erection				Total Kg:	4,48		

TOTAL Kg:

4,48

AREA A

Α

63165 - 0

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 63165 - 0
Fluid
System
Dang. fluid type
Coating
Oberpres
Op tem
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

		В	allesti	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	.35							DOC:	1E35-6	65-1103		•	
			Bal	lestra						SUI	LPHUREX GH/F	Size: In Thk	; mm	Temp: °	°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00			203	Pipe ASME B36.10 PL Seamless API 51	L GR. B				3,80		
3116	1/2	0	In			mm	,00	1,00	NR	203	Valve Globe ST.46004/3 THRD-F NPT 51	200 LB Forged	BRONZ	ZE D		0,70		
4687	1/2	0	In			mm	,00	1,00	NR	203	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTM A 1	05			0,28		
1056	1/2	0	In			mm	,00	2,00	NR	203	Coupling TA 50.7/2 THRD-F NPT 300	0# Forged AST	M A 105	i		0,24		
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105				0,38		
							_			N	1 Erection				Total Kg:	5,4		

AREA A

1 / 1

TOTAL Kg:

5,4

SZ1

PIPING BOM SABIZ

63166 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63166 - 0
Fluid
Dang. fluid type
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

		В	allestr	·a					S	KETCH	IES MATERIAL LIST		PI	<b>OJ</b> : 1	E35		REV:	0 16	5/11/2010
	PUMA	.5		16/11/2	010 10.1	12.35							DO	<b>OC:</b> 1	E35-65-110	3			
	Ballestra									SU	LPHUREX GH/F	Size: In	Thk: mi	n <b>T</b>	Γ <b>emp:</b> °C		Pres: BAR		Corr: mm
	1			<u> </u>					l		T				<u> </u>	_			
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. B	olt _	Weight (Kg	) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B					6,33		
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD	-F NPT 20	00 LB F	rged			0,30	)	
	,		,							-	BRASS NICKEL PLATED S 87								
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 10	05				0,38		
			•			•				N	// Erection				Total	Kg:	7,01	L	

TOTAL Kg:

7,01

AREA A

Α

PIPING BOM SABIZ

63167 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63167 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allesti	a					S	KETCH	IES MATERIAL LIST		PROJ	1E35	5	<b>REV:</b> 0 1	6/11/2010
	PUMA	15		16/11/20	010 10.12	2.35	1						DOC	1E35	5-65-1103		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp	o: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Otv	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	1		203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				6,33	
3116	1/2	0	In			mm	,00	1,00	NR	203	Valve Globe ST.46004/3 THRD-F NPT 51	200 LB Fo	ged BRO	NZE D		0,70	
4687	1/2	0	In			mm	,00	2,00	NR	203	Tee Straight TA 50.6/1 SW-F 3000# Fo.	rged ASTM	A 105			0,56	
1056	1/2	0	In			mm	,00	2,00	NR	203	Coupling TA 50.7/2 THRD-F NPT 300	0# Forged A	STM A 10	)5		0,24	
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105				0,38	
			•							N	1 Erection				Total Kg:	8,21	

AREA A

1 / 1

TOTAL Kg:

8,21

SZ1

PIPING BOM SABIZ

63168 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63168 - 0
Fluid
System
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PR	OJ:	1E35		REV	7: 0	16/11/2010
	PUMA	5		16/11/20	010 10.1	2.36							DO	OC:	1E35-6	65-1103			
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: mr	n	Temp: °	°C	Pres: BA	R	Corr: mm
										_									
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component					Gen. Bolt	Weight	(Kg) As.bl	y Branch
1433	1/2	0	In	2,77		mm	,00	6,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B						7,59	
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD	-F NPT 20	00 LB Fo	rged			1	0,30	
					_						BRASS NICKEL PLATED S 87								
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 10	)5				1	0,38	
	•		•							N	1 Erection					Total Kg:		8,27	

AREA A

Α

63169 - 0

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 63169 - 0
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

8,27

TOTAL Kg:

		В	allestr	a				SKETCHES MATERIAL LIST PROJ: 11					1E35		REV:	0 1	6/11/2010		
	PUMA	5		16/11/20	010 10.1	2.36							D	OC:	1E35-6	65-1103			
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: m	m	Temp:	°C	Pres: BAR		Corr: mm
	G4	ga.		m.	-		1.	I 0:		<b>.</b>	a .				1.	a	*** * * * * ***	\\	- ·
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				(	Gen. Bolt	Weight (K	g) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	3,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B					3,8	0	
2828	1/2	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD	F NPT 20	00 LB F	orged			0,3	0	
							1			1	BRASS NICKEL PLATED S 87								
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 10	)5				0,3	8	
								-		N	1 Erection					Total Kg:	4,4	18	

A

AREA A

PIPING BOM SABIZ

63170 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 63170 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

4,48

TOTAL Kg:

	Ballestra							S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010	
	PUMA	.5		16/11/2	010 10.12	2.36	1						DOC:	1E35-6	65-1103			
			Ba	llestra						SU	LPHUREX 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			203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				3,80		
3116	1/2	0	In			mm	,00	1,00	NR	203	Valve Globe ST.46004/3 THRD-F NPT 51	200 LB Forge	d BRON	ZE D		0,70		
4687	1/2	0	In			mm	,00	2,00	NR	203	Tee Straight TA 50.6/1 SW-F 3000# Fo	ged ASTM A 1	105			0,56		
1056	1/2	0	In			mm	,00	2,00	NR	203	Coupling TA 50.7/2 THRD-F NPT 300	0# Forged AST	M A 105	i		0,24		
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105				0,38		
	·		'							N	1 Erection				Total Kg:	5,68		

AREA A

1 / 1

TOTAL Kg:

5,68

SZ1

PIPING BOM SABIZ

63171 - 0

Plant SZ1 PIPING BOM SABIZ
Piping Class 203
Welding specification SP.1406/2-SP.1407/3
Line 63171 - 0
Fluid
System

Dang. fluid type
Coating
De pres
Op tem

Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

	Ballestra							S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010	
	PUMA	.5		16/11/2	010 10.12	2.36	1						DOC:	1E35-6	65-1103			
			Ba	llestra						SU	LPHUREX 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			203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				3,80		
3116	1/2	0	In			mm	,00	1,00	NR	203	Valve Globe ST.46004/3 THRD-F NPT 51	200 LB Forge	d BRON	ZE D		0,70		
4687	1/2	0	In			mm	,00	2,00	NR	203	Tee Straight TA 50.6/1 SW-F 3000# Fo	ged ASTM A 1	105			0,56		
1056	1/2	0	In			mm	,00	2,00	NR	203	Coupling TA 50.7/2 THRD-F NPT 300	0# Forged AST	M A 105	i		0,24		
1289	1/2	0	In			mm	,00	1,00	NR	203	Union TA 50.6/1 SW-F 3000# Forged A	STM A 105				0,38		
	·		'							N	1 Erection				Total Kg:	5,68		

AREA A

1 / 1

TOTAL Kg:

5,68

SZ1

PIPING BOM SABIZ

63172 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class	203	Welding specification SP.1406/2-SP.1407/3			
Line 63172 - 0	Fluid	System				
Dang. fluid type	Coating	De pres	Op tem			
Area	AREA	Sketch Sht	1 / 1	Isometric code	Page	1
Zones	Zones					

PUMA5         16/11/2010 10.12.36         DOC:         1E35-65-1103           Ballestra         SULPHUREX GH/F         Size: In Thk: mm         Temp: °C         Pres: BAR         Corr: mm	Balle	stra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
Ballestra SULPHUREX GH/F Size: In Thk: mm Temp: °C Pres: BAR Corr: mm	PUMA5	16/11/2010 10.12.36			DOC:	1E35-65-1103		
	1	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	s.bly Bra	nch
1433	1/2	0	In	2,77	mm	,00	6,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		7,59		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
	·		•	·					N	1 Erection	Total Kg:	9,29		
SZ1	PIPING	BOM SAI	BIZ		63173	- 0			A A	AREA A 1/1	TOTAL Kg:	9,29		

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 63173 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PRO	<b>J:</b> 1E35	5	<b>REV:</b> 0	16	5/11/2010
	PUMA	.5		16/11/20	010 10.12	.36							DOC	: 1E35	5-65-1103			
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	); °C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Otv	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.blv	Branch
1433	1/2	0	In	2,77		mm	,00	6,00		205	Pipe ASME B36.10 PL Seamless API 51	L GR. B				7,59		
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	A 105 G 6	1		1,70		
465	1/2	0	In			mm	,00	2,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	) AARH) F	orged	5191	0,80		
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTN	1 A 105			0,28		
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 T	AB. 9		0,44		
659	1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5C					
	'			•			•			N	1 Erection				Total Kg:	10,81		

AREA A

SZ1

PIPING BOM SABIZ

63174 - 0

1 / 1

TOTAL Kg:

10,81

Plant SZ1 PIPING BOM SABIZ
Line 63174 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 205
Pipin

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12.	.37							DOC:	1E35-65-1103	•		
			Ball	estra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		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	205	Pipe ASME B36.10 PL Seamless API 51	L GR. B			3,80	<u> </u>	
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM	A 105 G 61		1,70		
3186	1/2	0	In			mm	,00	1,00	NR	205	Strainer Y-Type ST.46276/1 SW-F 800#	Forged A	STM A 105 I	F 69	0,50		
465	1/2	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25)	) AARH) Foi	ged 5191	0,40		
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.2 TAI	B. 9	0,44		
659	1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷25)	0 AARH)	_B5C				T
						1	·			N	I Erection			Total Kg	: 6,84		

AREA A

1 / 1

TOTAL Kg:

6,84

SZ1

PIPING BOM SABIZ

63175 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63175 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	010 10.12.	.37							DOC:	1E35-65-110	3			
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pr	es: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Gen. B	olt W	eight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	3,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				3,80		
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM	A 105 G 61			1,70		
3186	1/2	0	In			mm	,00	1,00	NR	205	Strainer Y-Type ST.46276/1 SW-F 800#	Forged AS	TM A 105 F	F 69		0,50		
465	1/2	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	AARH) For	ged 5191		0,40		
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAI	3.9		0,44		
659	1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷25)	) AARH) _	B5C					
			-	'	1	-	'			N	1 Erection			Total	Kg:	6,84		-1

AREA A

1 / 1

TOTAL Kg:

6,84

SZ1

PIPING BOM SABIZ

63176 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63176 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		Е	Ballestr	a					S	KETCH	IES MATERIAL LIST		PI	ROJ: 1	E35	<b>REV:</b> 0	16/11/2010
	PUMA5			16/11/20	010 10.12	.37							D	OC: 1	E35-65-1103		
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mi	m ]	『emp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bl	y Branch
1437	1+1/2	0	In	3,68		mm	,00	1		203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				48,59	
469	1+1/2	0	In			mm	,00	3,00	NR	203	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	0 AARE	I) Forge	d 5193	4,20	
326	1+1/2	0	In	3,68		mm	,00	7,00	NR	203	90° Elbow Long Radius ASME B16.9 E GR. WPB	E Wrough	t S AST	M A 23	4	2,58	
5193	1/2	0	In			mm	75,00	12,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.2	2 TAB.	9	1,44	
663	1+1/2	0	In			mm	,00,	3,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH)	_B5C				
				<del>`</del>	•		•	-		N	A Erection				Total Kg:	56,81	

AREA A

1 / 1

TOTAL Kg:

56,81

PIPING BOM SABIZ

SZ1

63177 - 0

TV_63.3	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
	<b>Line</b> 63177 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA5	i		16/11/2	010 10.12	.37							DOC:	1E35	-65-1103		
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	· °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	y Branch
1437	1+1/2	0	In	3,68		mm	,00	4,00		203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				16,20	
469	1+1/2	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	) AARH) For	ged	5193	1,40	
326	1+1/2	0	In	3,68		mm	,00	3,00	NR	203	90° Elbow Long Radius ASME B16.9 E GR. WPB	E Wrough	t S ASTM A	234		1,10	
5193	1/2	0	In			mm	75,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAI	3.9		0,48	
663	1+1/2	0	In			mm	,00	1,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH) _	B5C				
							·		•	N	1 Erection				Total Kg:	19.18	

AREA A

PIPING BOM SABIZ

SZ1

63178 - 0

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 203
 Welding specification SP.1406/2-SP.1407/3

 Line 63178 - 0
 Fluid
 System

 Dang, fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

1 / 1

TOTAL Kg:

		В	allestra	a					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E	35	<b>REV:</b> 0	16	/11/2010
	PUMA5			16/11/2	010 10.12.	38							DOC	C: 1E	35-65-1103		•	
			Balle	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Tei	mp: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	7,00	m	203	Pipe ASME B36.10 PL Seamless API 5I	GR. B				28,34		
469	1+1/2	0	In			mm	,00	3,00	NR	203	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH)	Forged	5193	4,20		
158	1+1/2	0	In	3,68		mm	,00	1,00	NR	203	45° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	S ASTM	A 234		0,18		
326	1+1/2	0	In	3,68		mm	,00	3,00	NR	203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	S ASTM	A 234		1,10		
5193	1/2	0	In			mm	75,00	12,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 T	AB. 9		1,44		
663	1+1/2	0	In			mm	,00	3,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5C					T

M Erection

AREA A

A

PIPING BOM SABIZ

SZ1

63179 - 0

TY_63.2	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 63179 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Total Kg:

TOTAL Kg:

35,27

		Ba	allestra	1					S	KETCH	ES MATERIAL LIST	P	<b>ROJ:</b> 1E3.	5	REV: 0	16	/11/2010
	PUMA5	í		16/11/20	10 10.12	.38						D	OC: 1E3.	5-65-1103		•	
			Balle	stra						SUI	LPHUREX GH/F	Size: In Thk: m	m <b>Tem</b>	p: °C	Pres: BAR	C	orr: mm
Mark	S1	S2		Т1	T2		Len mm	Otv	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	Ac bly	Branch
1437	1+1/2	0	In	3,68	12	mm	,00			203	Pipe ASME B36.10 PL Seamless API 5I	L GR. B		Gen. Don	20,25	Asony	Dianch
469	1+1/2	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB RI	F (125÷250 AARI	H) Forged	5193	1,40		
											ASTM A 105						
	1+1/2			3,68			.00		1	203	45° Elbow Long Radius ASME B16.9 B				0,18		

326	1+1/2	0	In	3,68		mm	,00	3,00	NR	203	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM	A 234	1,10	
	·	,			·						GR. WPB			
5193	1/2	0	In			mm	75,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2	AB. 9	0,48	
		-	1			1				1	ASTM A 193 B7/ASTM A 194 GR.2H			
663	1+1/2	0	In			mm	,00	1,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C			
											M Erection	Total Kg:	23,41	
SZ1	PIPING E	BOM S	SABIZ			63180 -	. 0			A	AREA A 1 / 1	TOTAL Kg:	23,41	

GR. WPB

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specificati	on SP.1406/2-SP.1407/3
<b>Line</b> 63180 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			S

		В	allestr	ra					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/201
	PUMA	.5		16/11/20	010 10.12	2.38							DOC:	1E35-65-1103	<u> </u>	
			Ball	lestra						SU	LPHUREX GH/F	Size: In Th	k: mm	Temp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg) A	s.bly Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 5	L GR. B			6,33	
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM A	105 G 61		1,70	
465	1/2	0	In			mm	,00	2,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 A	ARH) For	ged 5191	0,80	
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UN	C/2.2 TAI	3.9	0,44	
659	1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH) _ B	5C			
										N	1 Erection			Total Kg:	9,27	,

AREA A

A

SZ1

PIPING BOM SABIZ

63187 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63187 - 0
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1

Piping Class 205
Welding specification SP.1406/2-SP.1407/2

System
De pres
Op tem
Page 1

Zones

TOTAL Kg:

		В	allesti	ra					S	KETCH	ES MATERIAL LIST		PROJ	1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA	15		16/11/2	010 10.12	2.38	1						DOC:	1E35	-65-1103	•		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		Т1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	5,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				6,33		
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	A 105 G 61			1,70		
465	1/2	0	In			mm	,00	2,00	NR	205	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	) AARH) Fo	orged	5191	0,80		
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TA	B. 9		0,44		
659	1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5C					
						,	-			N	1 Erection				Total Kg:	9,27		

AREA A

A

SZ1

PIPING BOM SABIZ

63188 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class	205	Welding specification SP.1406/2-SP.1407/2			
Line 63188 - 0	Fluid	System				
Dang. fluid type	Coating	De pres	Op tem			
Area	AREA	Sketch Sht	1/1	Isometric code	Page	1
Zones						

1 / 1

TOTAL Kg:

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35	i	<b>REV:</b> 0 10	6/11/2010
	PUMA	.5		16/11/2	010 10.12	2.38							DOC:	1E35	5-65-1103		
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	6,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				7,59	
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM	A 105 G 61			1,70	
465	1/2	0	In			mm	,00	2,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	) AARH) For	ged	5191	0,80	
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.2 TA	B. 9		0,44	
659	1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷25)	) AARH) _	_B5C				
	-	1			-	-				N	1 Erection				Total Kg:	10,53	

AREA A

A

SZ1

PIPING BOM SABIZ

63189 - 0

1 / 1

TOTAL Kg:

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 16	6/11/2010
	PUMA	.5		16/11/20	010 10.12	2.39							DOC:	1E35	-65-1103		
			Ball	estra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	6,00	m	205	Pipe ASME B36.10 PL Seamless API 51	GR. B				7,59	
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# For	ged ASTM	A 105 G 61			1,70	
465	1/2	0	In			mm	,00	2,00	NR	205	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25)	) AARH) For	rged	5191	0,80	
5191	1/2	0	In			mm	65,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.2 TA	B. 9		0,44	
659	1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷25)	O AARH)	_B5C				
		1		1	-					N	1 Erection				Total Kg:	10,53	

AREA A

A

SZ1

PIPING BOM SABIZ

63190 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63190 - 0
Fluid
System
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

TOTAL Kg:

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ	1E35		REV:	0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.12	2.39							DOC:	1E35-	65-1103	•		
			Ball	lestra						SUI	LPHUREX 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 (K	g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			3,8	0	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,3	0	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	05		0,8	0	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,3	0	
										N	1 Erection				Total Kg:	5,2	2	

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

63192 - 0

Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Welding specification
Line 63192 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		REV:	0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.12	.39							DOC:	1E35-65-110	)3			
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp: °C		Pres: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. B	olt	Weight (Kg	2) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5	L GR. B			3,80	)	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,30	)	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	)5		0,80	)	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AST	M A 105			0,30	)	
										N	// Erection			Total	Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

63193 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63193 - 0
Dang, fluid type
Area AREA A
Sketch Sht 1/1
System

Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Welding specification
System
De pres
Op tem
Page 1
Zones

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ	1E35		REV:	0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.12	2.39							DOC:	1E35-	65-1103	•		
			Ball	lestra						SUI	LPHUREX 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 (K	g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			3,8	0	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,3	0	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	05		0,8	0	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,3	0	
										N	1 Erection				Total Kg:	5,2	2	

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

63194 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63194 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Pipin

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		REV:	0 1	6/11/2010
	PUMA	.5		16/11/20	)10 10.12	.40	1						DOC:	1E35-	65-1103			
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (K	g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5	L GR. B			3,8	<u> </u>	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged	-		0,3	30	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	)5		0,8	80	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AST	M A 105			0,3	80	
										N	// Erection				Total Kg:	5,2	2	

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

63195 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63195 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		F	Ballesti	ra					S	KETCH	IES MATERIAL LIST		P	ROJ:	1E35	<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/2	010 10.12	.40							D	OC:	1E35-65-1103		
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: m	m	Temp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.l	oly Branch
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR	В		3,80	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	00 LB F	orged		0,30	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	d ASTM	I A 10	5	0,80	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	STM A	105		0,30	
										N	/ Erection				Total Kg:	5,2	

TOTAL Kg:

5,2

AREA A

A

PIPING BOM SABIZ

63196 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63196 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35	REV:	0 10	6/11/2010
	PUMA	15		16/11/20	010 10.12	.40	1						DOC:	1E35-65-1103			
			Ball	estra						SUI	LPHUREX GH/F	Size: In T	hk: mm	Temp: °C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg	g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 51	C GR. B		3,80	0	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged		0,30	0	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged A	ASTM A 10	5	0,80	0	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AST	M A 105		0,30	0	
										N	/I Erection			Total Kg	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

63197 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63197 - 0
Fluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

		I	Ballesti	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		REV: 0	16	5/11/2010
	PUMA	.5		16/11/20	010 10.12	.40							DOC:	1E35-65-110	3			
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp: °C	P	res: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Gen. Be	olt V	Veight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5	L GR. B			3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,30		
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	)5		0,80		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AST	M A 105			0,30		
										N	1 Erection			Total	Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

PIPING BOM SABIZ

63198 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63198 - 0
Dang, fluid type
Area AREA A
Sketch Sht 1/1
System

Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Welding specification
System
De pres
Op tem
Page 1
Zones

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA	.5		16/11/20	010 10.12	.40							DOC:	1E35-	-65-1103			
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	3,00	_	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	00 LB Forged	Į		0,30		
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	d ASTM A 1	05		0,80		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30		
										N	1 Erection				Total Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

63199 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63199 - 0
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

		I	Ballestr	a					S	SKETCH	IES MATERIAL LIST		PRO	) <b>J:</b> 1E	35	<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/2	010 10.1	2.41	1						DO	C: 1E	35-65-1103	•	
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Ter	np: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	ly Branch
1493	1/2	0	In	2,77		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. E			6,33	
2828	1/2					mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB For	ged		0,30	
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	l ASTM A	105		0,32	
252	1/2	0	In			mm	,00	4,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	l ASTM A	105		1,60	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 10	5		0,30	
										N	M Erection				Total Kg:	8,85	

TOTAL Kg:

8,85

AREA A

Α

SZ1

PIPING BOM SABIZ

63200 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	n
<b>Line</b> 63200 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35	RE	7: 0	16/11/2010
	PUMA	.5		16/11/20	010 10.12	2.41							DOC:	1E35-65-1103		-	
			Ball	lestra						SUI	LPHUREX GH/F	Size: In T	hk: mm	Temp: °C	Pres: BA	R	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Gen. Bol	t Weight	(Kg) As.bl	y Branch
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 51	GR. B			3,80	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,30	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged A	ASTM A 10	5		0,80	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AST	M A 105			0,30	
										N	1 Erection			Total K	g:	5,2	

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

63201 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63201 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	Ballestr	a					S	SKETCH	IES MATERIAL LIST		PI	ROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/20	010 10.12	2.41							D	OC:	1E35-	65-1103		
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: mi	n	Temp:	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component					Gen. Bolt	Weight (Kg) As.b	ly Branch
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR.	В			3,80	
2828	1/2	0	In			mm	,00	2,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	00 LB Fo	orged			0,60	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forgeo	i ASTM	A 10	5		0,80	
4673	1/2	0	In			mm	,00	1,00	NR	202	Tee Straight TA 50.7/2 THRD-F NPT 3 Galvanized	000# Forg	ed AST	M A 1	05		0,28	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 1	05			0,30	
										N	A Erection					Total Kg:	5,78	

AREA A

1 / 1

TOTAL Kg:

5,78

SZ1

PIPING BOM SABIZ

63202 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63202 - 0
Fluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

		F	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35	5	<b>REV:</b> 0	16/11/2010
	PUMA	<b>A</b> 5		16/11/2	010 10.1	2.42	1						DOC:	1E35	5-65-1103		
			Ball	lestra						SU	LPHUREX 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	y Branch
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			3,80	
2828	1/2	0	In			mm	,00	2,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	) LB Forge	1		0,60	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 1	05		0,80	
4673	1/2	0	In			mm	,00	1,00	NR	202	Tee Straight TA 50.7/2 THRD-F NPT 3 Galvanized	000# Forge	ed ASTM A	105		0,28	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	ГМ А 105			0,30	
										N	M Erection				Total Kg:	5,78	

AREA A

1 / 1

TOTAL Kg:

5,78

SZ1

PIPING BOM SABIZ

63203 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63203 - 0
Fluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b>	0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.12	.42							DOC:	1E35-65-110	)3			
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp: °C		Pres: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. B	olt	Weight (Kg	g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5	L GR. B			3,80	0	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,30	0	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	05		0,80	0	
1275	1/2	0	In			mm	,00,	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AST	M A 105			0,30	0	
										N	// Erection			Total	Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

63204 - 0

Plant SZ1 PIPING BOM SABIZ
Line 63204 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Pipin

		I	Ballestr	a						SKETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/2	010 10.1	2.42							DOC:	1E35	-65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	ly Branch
1493	1/2	0	In	2,77		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			6,33	
2828	1/2	0	In			mm	,00	1,00	NF	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forgeo	I		0,30	
84	1/2	0	In			mm	,00	2,00	NF	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	I ASTM A 1	05		0,64	
252	1/2	0	In			mm	,00	4,00	NF	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	I ASTM A 1	05		1,60	
1275	1/2	0	In			mm	,00	1,00	NF	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
										N	M Erection				Total Kg:	9,17	

TOTAL Kg:

9,17

AREA A

Α

SZ1

PIPING BOM SABIZ

63205 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specificatio	n
<b>Line</b> 63205 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		]	PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA5	5		16/11/20	10 10.12.	.43							Ī	OC:	1E35	-65-1103	•	•	
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk:	mm	Temp	:°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1437	1+1/2	0	In	3,68		mm	,00	29,00		212	Pipe ASME B36.10 PL Seamless API 51	L GR. B					117,43		
3140	1+1/2	0	In			mm	,00	1,00	NR	212	Valve Globe ST.46696/0 SW-F 800# Fo	orged AST	M A 1	05 D 87	7		10,70		
469	1+1/2	0	In			mm	,00	3,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25	0 AAF	H) For	ged	5193	4,20		
326	1+1/2	0	In	3,68		mm	,00	7,00	NR	212	90° Elbow Long Radius ASME B16.9 B GR. WPB	BE Wrough	nt S AS	ТМ А	234		2,58		
5193	1/2	0	In			mm	75,00	12,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/	2.2 TAI	3.9		1,44		
695	1+1/2	0	In			mm	,00	3,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷25)	0 AARH)	_ B5B						

M Erection

AREA A

A

PIPING BOM SABIZ

SZ1

64003 - 0

KV_64.15	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 64003 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Total Kg:

TOTAL Kg:

136,34

		В	allestr	a					5	SKETCH	IES MATERIAL LIST		P	ROJ:	1E35	i	<b>REV:</b> 0	16	5/11/2010
	PUMA	15		16/11/2	010 10.1	2.43	1						D	OC:	1E35	-65-1103	<u> </u>		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk:	nm	Temp	:°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,40	m	212	Pipe ASME B36.10 PL Seamless API 51	L GR. B					0,51		
1438	2	0	In	3,91		mm	,00	1,00	m	212	Pipe ASME B36.10 PL Seamless API 51	L GR. B					5,44		
470	2	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25	0 AAR	H) For	ged	5199	2,20		
327	2	0	In	3,91		mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrough	nt S AS	ГМ А	234		0,66		
1749	1	1/2	In	3,38	2,77	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE W WPB	rought S	ASTM .	A 234	GR.		0,14		
1759	2	1	In	3,91	3,38	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE W	rought S	ASTM .	A 234	GR.		0,43		
1289	1/2	0	In			mm	,00	1,00	NR	212	Union TA 50.6/1 SW-F 3000# Forged A	STM A 1	05				0,38		T
5199	5/8	0	In			mm	85,00		-	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H			.2 TAI	В. 9		1,26		
696	2	0	In			mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH)	_ B5B						
	1		-				<u> </u>			N	1 Erection					Total Kg:	11,01		

AREA A

Α

SZ1

PIPING BOM SABIZ

64004 - 0

Plant SZ1 PIPING BOM SABIZ
Line 64004 - 0
Fluid
Dang, fluid type
Coating
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

1 / 1

TOTAL Kg:

		В	allestr	a					5	SKETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3:	5	<b>REV:</b> 0	16	/11/2010
	PUMA	<b>A</b> 5		16/11/2	010 10.1	2.43							DOC	: 1E3:	5-65-1103		•	
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Tem	p: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,40	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				0,51		
1438	2	0	In	3,91		mm	,00	3,00	m	212	Pipe ASME B36.10 PL Seamless API 5	L GR. B				16,31		
470	2	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB R	F (125÷25	0 AARH) F	orged	5199	2,20		
									_		ASTM A 105							
327	2	0	In	3,91		mm	,00	3,00	NR	212	90° Elbow Long Radius ASME B16.9 I GR. WPB	BE Wrough	nt S ASTM	A 234		1,99		
1749	1	1/2	In	3,38	2,77	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE V WPB	Vrought S	ASTM A 23	4 GR.		0,14		
1759	2	1	In	3,91	3,38	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE V WPB	Vrought S	ASTM A 23	4 GR.		0,43		
1289	1/2	0	In			mm	,00	1,00	NR	212	Union TA 50.6/1 SW-F 3000# Forged A	ASTM A 1	05			0,38		T
5199	5/8	0	In			mm	85,00	6,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.2 TA	AB. 9		1,26		
696	2	0	In			mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH)	_ B5B					T

M Erection

AREA A

SZ1

PIPING BOM SABIZ

64005 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	SP.1406/2-SP.1407/3
<b>Line</b> 64005 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

1 / 1

Total Kg:

TOTAL Kg:

23,22

		В	Ballesti	a						S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/20	010 10.12	.43								DOC:	1E35-	-65-1103		
			Bal	lestra							SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	n 0	)tv	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	lv Branch
1453	3	0	In	3,18		mm	,00	+			212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				13,44	
472	3	0	In			mm	,00	) 1	,00	NR	212	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH) For	ged	5201	4,10	
297	3	0	In	3,18		mm	,00	) 1	,00	NR	212	90° Elbow Long Radius ASME B16.9 B WPB	E E.R.W. A	STM A 234	GR.		1,18	
5201	5/8	0	In			mm	95,00	) 4	,00	NR	212	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	NC/2.2 TAE	3.9		0,92	
698	3	0	In			mm	,00,	) 1	,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250	O AARH) _	B5B				
					•						N	1 Erection				Total Kg:	19,64	

A

AREA A

PIPING BOM SABIZ

SZ1

64006 - 0

Plant SZ1 PIPING BOM SABIZPiping Class 212Welding specification SP.1406/2-SP.1407/3Line 64006 - 0FluidSystemDang, fluid typeCoatingDe presOp temArea AREA ASketch Sht 1/1Isometric codePage 1Zones

1 / 1

TOTAL Kg:

	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.44			DOC:	1E35-65-1103		
	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	0,50	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,63	
1454	4	0	In	3,18		mm	,00	7,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		65,35	
1457	6	0	In	3,96		mm	,00	33,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		529,60	
2984	1/2	0	In			mm	,00	1,00	NR	212	Valve Check ST.46275/1 SW-F 800# Forged ASTM A 105 R 83		1,90	
5058	6	0	In			mm	,00	1,00	NR	212	Valve Butterfly With Gasket ST.46856/0 WAFER 150 LB RF (125÷250 AARH) Cast DUCTILE IRON B 85	5223	10,30	
473	4	0	In			mm	,00	1,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5201	5,60	
475	6	0	In			mm	,00	3,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5214	22,50	
298	4	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		4,13	
301	6	0	In	3,96		mm	,00	8,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		45,30	
1662	6	4	In	3,96	3,18	mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		2,18	
5201	5/8	0	In			mm	95,00	8,00	NR	212	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		1,84	
5214	3/4	0	In			mm	100,00	8,00	NR	212	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		6,72	
5223	3/4	0	In			mm	155,00	8,00	NR	212	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		8,48	
699	4	0	In			mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
701	6	0	In			mm	,00	1,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
	1	-	1	1		1	·		•	]	M Erection	Total Kg:	704,54	<u> </u>
SZ1	PIPING	BOM S	ABIZ			64009	- 0			A	AREA A 1 / 1	TOTAL Kg:	704,54	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 64009 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a						SKETCI	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 1	16/11/2010
	PUMA	15		16/11/20	010 10.12	2.44							DOC:	1E35-	65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In T	hk: mm	Temp:	°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Ur	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	y Branch
1454	4	0	In	3,18		mm	,00	3,00	) m	212	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				26,14	
473	4	0	In			mm	,00	1,00	) NI	R 212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250 A	ARH) For	ged	5201	5,60	
298	4	0	In	3,18		mm	,00	1,00	) NI	R 212	90° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W. AS	TM A 234	GR.		2,07	
5201	5/8	0	In			mm	95,00	8,00	) NI	R 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UN	IC/2.2 TAB	3. 9		1,84	
699	4	0	In			mm	,00	1,00	) NI	R 212	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH) _ B	5B				
		-	1	,						. 1	M Erection				Total Kg:	35,65	1

AREA A

PIPING BOM SABIZ

SZ1

64021 - 0

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 212
 Welding specification SP.1406/2-SP.1407/3

 Line 64021 - 0
 Fluid
 System

 Dang. fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

1 / 1

TOTAL Kg:

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.12.44			DOC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In T	hk: 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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13		
									N	A Erection	Total Kg	: 0,13		
SZ1	PIPING	BOM SAI	BIZ		6402	6 - 0			A A	AREA A 1 / 1	TOTAL Kg	: 0,13		

64Y34	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 64026 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.12.44			DOC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In T	hk: mm	Temp: °C	Pres: BAR		Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bl	y Branch
1433	1/2	0	In	2,77	mm	,00	0,10	m	203	Pipe ASME B36.10 PL Seamless	API 5L GR. B		0,13	
									N	1 Erection		Total Kg:	0,13	
SZ1	PIPING	BOM SAI	BIZ		64028	- 0			A A	AREA A	1/1	TOTAL Kg:	0,13	

64Y15	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	Line 64028 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a					j	SKE	ТСН	ES MATERIAL LIST		P	ROJ:	1E35		REV: 0	16	5/11/2010
	PUMA	15		16/11/20	010 10.12	2.44								D	OC:	1E35	-65-1103			
			Ball	estra							SUI	LPHUREX GH/F	Size: In	Thk: n	nm	Temp	:°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Ur	n Pip	. class	Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00		_	206		Pipe ASME B36.10 PL Seamless API 5	L GR. B					0,50		
1454	4	0	In	3,18		mm	,00	12,00	) m	206		Pipe ASME B36.10 PL E.R.W. API 5L	GR. B					104,57		
3007	4	0	In			mm	,00	1,00	) NI	R 206		Valve Check ST.46357/5 WAFER 1501 ASTM A 36 CADMIUM PLATED R 8	,	5÷250 A	AARH	() Cast	5204	2,00		
4728	4	0	In			mm	,00	2,00	) NI	R 206		Flange Slip-On x Wafer ASME B16.5 1 Forged ASTM A 105	50 LB FF	(125÷2	50 AA	RH)	5201	11,20		
130	4	0	In	3,18		mm	,00	1,00	) NI	R 206		45° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W.	ASTM	A 234	GR.		1,02		
298	4	0	In	3,18		mm	,00	4,00	) NI	R 206		90° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W.	ASTM	A 234	GR.		8,27		
1124	1/2	0	In			mm	,00	2,00	) NI	R 206		Coupling Half TA 50.7/2 THRD-F NP	Γ 3000# Fo	orged A	STM A	A 105		0,12		
1126	1	0	In			mm	,00	1,00	NI	R 206		Coupling Half TA 50.7/2 THRD-F NP	Γ 3000# Fo	orged A	STM A	A 105		0,15		
5204	5/8	0	In			mm	110,00	8,00	) NI	R 206		Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2	.2 TAI	3.9		2,00		

M Erection

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

1 / 1

2,00 NR 206

Α

64035 - 0

667

PIPING BOM SABIZ

64Y22	Plant SZ1 PIPING BOM SABIZ	Piping Class 206	Welding specification	n SP.1406/2-SP.1407/3
PSH_64.6	<b>Line</b> 64035 - 0	Fluid	System	
PI_64.6	Dang. fluid type	Coating	De pres	Op tem
TI_64.10	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
PSV_64.6	Zones			

Total Kg:

TOTAL Kg:

129,82

		В	allestı	ra						SKE	ЕТСН	IES MATERIAL LIST		PROJ	: 1E3	5	<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/20	010 10.12	2.45								DOC:	1E3:	5-65-1103	•		
			Bal	lestra							SU	LPHUREX GH/F	Size: In	Thk: mm	Tem	p: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mn	n Qt	v Uı	m Pip	. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1454	4	0	In	3,18		mm	,00	6,0	0 n	n 206	5	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				52,28		
5036	4	0	In			mm	,00	1,0	0 N	IR 206	5	Valve Butterfly With Gasket ST.46566/ (125÷250 AARH) Cast DUCTILE IRO		150 LB RF		5210	4,50		
4728	4	0	In			mm	,00	2,0	0 N	IR 206	5	Flange Slip-On x Wafer ASME B16.5 1 Forged ASTM A 105	50 LB FF	(125÷250 AA	ARH)	5201	11,20		
298	4	0	In	3,18		mm	,00	2,0	0 N	IR 206	5	90° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W.	ASTM A 234	4 GR.		4,13		
5210	5/8	0	In			mm	145,00	8,0	0 N	IR 206	5	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H		UNC/2.2 TA	B. 9		2,40		
											N	M Erection				Total Kg:	74,52		
SZ1	PIPING	BOM SA	ABIZ			64036	- 0			A	. A	AREA A 1	/ 1			TOTAL Kg:	74,52		

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 206
 Welding specification SP.1406/2-SP.1407/3

 Line 64036 - 0
 Fluid
 System

 Dang, fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>I:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.45		DOC	: 1E35-65-1103		
	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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13	
	·		•							N	1 Erection	Total Kg:	0,13	·
SZ1	PIPING	BOM SA	BIZ			64037 -	0			A A	AREA A 1/1	TOTAL Kg:	0,13	

64Y21	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 64037 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		Ba	llestra	1					S	KETCH	ES MATERIAL LIST		PROJ	1E35		<b>REV:</b>	0 1	6/11/2010
	PUMA	15		16/11/2	010 10.12	2.45							DOC:	1E35-	-65-1103			
			Balle	stra						SUI	PHUREX 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	g) As.bly	Branch
1.457		0	Y	2.06			00	0.50		212	D' ACME DOCATO DE E DAY ADESE	CD D				0.00		Π

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
1457	6	0	In	3,96	mm	,00	0,50	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		8,02	
1459	8	0	In	4,78	mm	,00	25,00	m	212	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		631,57	
2837	8	0	In		mm	,00	1,00	NR	212	Valve Ball Full Port ST.46590/3 LUG 150 LB RF (125÷250 AARH)  Cast ASTM A 216 GR. WCB S 127	5379	89,00	
476	8	0	In		mm	,00	2,00	NR	212	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105	5216	25,20	
301	6	0	In	3,96	mm	,00	1,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		5,66	
303	8	0	In	4,78	mm	,00	4,00	NR	212	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB		47,80	
1671	8	6	In	4,78	3,96 mm	,00	1,00	NR	212	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB	3	3,82	
5216	3/4	0	In		mm	110,00	8,00	NR	212	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		7,04	
702	8	0	In		mm	,00	2,00	NR	212	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B			
5379	3/4	0	In		mm	50,00	32,00	NR	212	Screws for valves ASME B 18.2.1 /UNC ASTM A 193 B7		20,80	
		'		'						M Erection	Total Kg:	838,92	
SZ1	PIPING	BOM SA	BIZ		6404	- 0			A	AREA A 1 / 1	TOTAL Kg:	838,92	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 64041 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.12.45			DOC:	1E35-65-1103			
	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	Ge	en. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B			0,13	
			•							N	1 Erection	T	otal Kg:	0,13	
SZ1	PIPING	BOM SA	BIZ			64042 -	0			A A	REA A 1 / 1	TOT	ΓAL Kg:	0,13	

64Y9	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 64042 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a					5	SKETCH	IES MATERIAL LIST		P	ROJ:	1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA	15		16/11/20	010 10.12	2.46							D	oc:	1E35	-65-1103			
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: m	m	Temp	:°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Un	Pip. class	Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1435	1	0	In	3,38		mm	,00	0,20	m	206	Pipe ASME B36.10 PL Seamless API 5	L GR. B					0,50		
1454	4	0	In	3,18		mm	,00	9,00	m	206	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B					78,43		
3007	4	0	In			mm	,00	1,00	NR	206	Valve Check ST.46357/5 WAFER 150	`	25÷250 A	AARH)	) Cast	5204	2,00		
473	4	0	In			mm	,00	2,00	NR	206	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25	0 AARI	H) Forg	ged	5201	11,20		
130	4	0	In	3,18		mm	,00	1,00	NR	206	45° Elbow Long Radius ASME B16.9 F WPB	BE E.R.W.	ASTM	A 234	GR.		1,02		
298	4	0	In	3,18		mm	,00	4,00	NR	206	90° Elbow Long Radius ASME B16.9 F WPB	BE E.R.W.	ASTM	A 234	GR.		8,27		
1124	1/2	0	In			mm	,00	2,00	NR	206	Coupling Half TA 50.7/2 THRD-F NP	Г 3000# Fc	orged A	STM A	105		0,12		
1126	1	0	In			mm	,00	1,00	NR	206	Coupling Half TA 50.7/2 THRD-F NP	Γ 3000# Fo	orged A	STM A	105		0,15		
5204	5/8	0	In			mm	110,00	8,00	NR	206	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1	UNC/2.	2 TAB	. 9		2,00		

M Erection

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

1 / 1

2,00 NR 206

Α

64043 - 0

667

PIPING BOM SABIZ

64Y30	Plant SZ1 PIPING BOM SABIZ	Piping Class 206	Welding specification	n SP.1406/2-SP.1407/3
PSH_64.7	<b>Line</b> 64043 - 0	Fluid	System	
PI_64.7	Dang. fluid type	Coating	De pres	Op tem
TI_64.11	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
PSV_64.7	Zones			

Total Kg:

TOTAL Kg:

103,68

		В	allestr	a						SKET	CHES MATERIA	AL LIST		PROJ:	1E35	i	<b>REV:</b> 0	16	5/11/2010
	PUMA	.5		16/11/20	010 10.12	2.46								DOC:	1E35	5-65-1103		•	
			Ball	lestra							SULPHUREX GH/F		Size: In	Thk: mm	Temp	: °C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2		Len mn	ı Qt	y Uı	m Pip. cla	ass Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1454	4	0	In	3,18		mm	,00	6,0	0 m	n 206	Pipe ASME B36.1	OPL E.R.W. API 5L C	GR. B				52,28		
5036	4	0	In			mm	,00	1,0	0 N	R 206		th Gasket ST.46566/4 Cast DUCTILE IRON		150 LB RF		5210	4,50		
4728	4	0	In			mm	,00	2,0	0 N	R 206	Flange Slip-On x V Forged ASTM A 1	Vafer ASME B16.5 15 05	50 LB FF (	(125÷250 AA	RH)	5201	11,20		
298	4	0	In	3,18		mm	,00	2,0	0 N	R 206	-	adius ASME B16.9 B	E E.R.W.	ASTM A 234	GR.		4,13		
5210	5/8	0	In			mm	145,00	8,0	0 N	R 206		TA 50.48B/28 ASME ASTM A 194 GR.2H	E B18.2.1	UNC/2.2 TAI	3. 9		2,40		
											M Erection					Total Kg:	74,52		
SZ1	PIPING	BOM SA	ABIZ			64044	- 0			A	AREA A	1 /	1			TOTAL Kg:	74,52		

 Plant SZ1 PIPING BOM SABIZ
 Piping Class 206
 Welding specification SP.1406/2-SP.1407/3

 Line 64044 - 0
 Fluid
 System

 Dang, fluid type
 Coating
 De pres
 Op tem

 Area AREA A
 Sketch Sht 1/1
 Isometric code
 Page 1

 Zones

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.46			DOC:	1E35-65-1103		
	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	s.bly	Branch
1433	1/2	0	In	2,77	mm	,00	15,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		18,99		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
			•	·					N	M Erection	Total Kg:	20,69		
SZ1	PIPING	BOM SAI	BIZ		64101	- 0			A A	AREA A 1/1	TOTAL Kg:	20,69		

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 64101 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.12.46		DOC:	1E35-65-1103		
Ballestra	SULPHUREX GH/F	Size: In Thk: mm	<b>Temp:</b> °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) A	s.bly	Branch
1433	1/2	0	In	2,77	mm	,00	3,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		3,80		
3107	1/2	0	In		mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70		
		•	•	·					N	M Erection	Total Kg:	5,5		
SZ1	PIPING	BOM SAI	BIZ		64102	- 0			A A	AREA A 1/1	TOTAL Kg:	5,5		

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 64102 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0 16/	/11/2010
PUMA5	16/11/2010 10.12.46			DOC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In T	hk: mm	Temp: °C	Pres: BAR	C	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	16,00	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		20,25		
4687	1/2	0	In		mm	,00	1,00	NR	203	Tee Straight TA 50.6/1 SW-F 3000# Forged ASTM A 105		0,28		
	·		•	·					N	M Erection	Total Kg:	20,53		
SZ1	PIPING	BOM SAI	BIZ		64103 -	0			A A	AREA A 1 / 1	TOTAL Kg:	20,53		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specificatio	n SP.1406/2-SP.1407/3
<b>Line</b> 64103 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		Ba	llestra	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		REV: 0	16	5/11/2010
	PUMA5			16/11/20	10 10.12	.46							DOC:	1E35	-65-1103	•	•	
			Balle	estra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp	°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qt	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	12,0	) m	205	Pipe ASME B36.10 PL Seamless API 5I	L GR. B				15,19		
3107	1/2	0	In			mm	,00	2,0	) NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	A 105 G 61			3,40		
4687	1/2	0	In			mm	,00	1,0	) NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	ged ASTN	1 A 105			0,28		

			M	I Erection			Total Kg:	18,87
SZ1	PIPING BOM SABIZ	64104 - 0	A A	REA A	1 / 1	Т	OTAL Kg:	18,87

Plant SZ1 PIPING BOM SABIZ Piping Class 205 Welding specification SP.1406/2-SP.1407/2 Line 64104 - 0 Fluid System Dang. fluid type Coating De pres Op tem Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 10	6/11/2010
	PUMA	.5		16/11/2	010 10.12	.47							DOC:	1E35-6	65-1103		
			Ball	lestra						SUI	LPHUREX 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	1,00		203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				1,27	
465	1/2	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷250	AARH) For	ged 5	5191	0,40	
925	1	1/2	In			mm	,00	1,00	NR	203	Reducing Insert M/F TA 50.7/2 THRD-Forged ASTM A 105	M NPT x 7	ΓHRD-F 3000	)#		0,19	
5191	1/2	0	In			mm	65,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	JNC/2.2 TAE	3.9		0,44	
659	1/2	0	In			mm	,00	1,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH) _	B5C				
										N	1 Erection			,	Total Kg:	2,3	

AREA A

1 / 1

TOTAL Kg:

2,3

PIPING BOM SABIZ

SZ1

64105 - 0

Plant SZ1 PIPING BOM SABIZ
Line 64105 - 0
Fluid
Dang, fluid type
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

		В	allestra	ì					S	KETCH	ES MATERIAL LIST		PR	<b>OJ:</b> 1	E35	REV:	) 16	5/11/2010
	PUMA	<b>A</b> 5		16/11/20	010 10.12	2.47							DO	<b>C</b> : 1	E35-65-1103	•		
			Balle	stra						SUI	PHUREX GH/F	Size: In	Thk: mm	1	Γ <b>emp:</b> °C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg	) As.bly	Branch
1435	1	0	In	3,38		mm	,00,	43,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				107,59		
2830	1	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	-F NPT 20	00 LB For	ged		0,60		
467	1	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25)	0 AARH)	Forge	d 5192	0,80		
156	1	0	In	3,38		mm	,00	1,00	NR	203	45° Elbow Long Radius ASME B16.9 E GR. WPB	E Wrough	t S ASTM	I A 23	4	0,07		

90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

Union TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

ASTM A 193 B7/ASTM A 194 GR.2H

SZ1	PIPING BOM SABIZ	64106 - 0	A	AREA A	1 / 1	TOTAL Kg:	111,28

M Erection

GR. WPB

10,00 NR 203

1,00 NR 203

2,00 NR 203

1,00 NR 203

324

1256

5192

661

1/2

0

0

In

3,38

mm

mm

mm

mm

,00

,00

70,00

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specificatio	n SP.1406/2-SP.1407/3
<b>Line</b> 64106 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

1,35

0,65

0,22

111,28

Total Kg:

		В	Ballestr	ra					5	SKETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	5/11/2010
	PUM	<b>A</b> 5		16/11/2	010 10.1	2.47	1						DOC	1E35	-65-1103	•		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Un	ı Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1495	1	0	In	3,38		mm	,00	11,00	_	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	ımless API	5L GR. B			27,52	V	
2830	1	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	-F NPT 20	0 LB Forge	i		0,60		
254	1	0	In			mm	,00	4,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	I ASTM A	05		4,40		
1277	1	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,65		
										N	M Erection				Total Kg:	33,17		

AREA A

1 / 1

TOTAL Kg:

33,17

SZ1

PIPING BOM SABIZ

64107 - 0

Plant SZ1 PIPING BOM SABIZ
Line 64107 - 0
Fluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
System
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		Pl	ROJ:	1E35	<b>REV:</b> 0	16	5/11/2010
	PUMA	15		16/11/2	010 10.12	2.47							D	OC:	1E35-65-1103			
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: m	m	Temp: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	7,00		202	Pipe ASME B36.10 THRD-M NPT Sean Galvanized	nless API	I 5L GR	В		8,86		
1495	1	0	In	3,38		mm	,00	0,20	m	202	Pipe ASME B36.10 THRD-M NPT Sean Galvanized	nless API	I 5L GR	В		0,50		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD-F BRASS NICKEL PLATED S 87	F NPT 20	00 LB F	orged		0,30		
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	0# Forge	d ASTM	I A 10	5	0,32		
252	1/2	0	In			mm	,00	5,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	0# Forge	d ASTM	I A 10	5	2,00		
976	1	1/2	In			mm	,00	1,00	NR	202	Reducing Insert M/F TA 50.7/2 THRD-M Forged ASTM A 105 Galvanized	1 NPT x	THRD-	F 3000	)#	0,19		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# F	orged AS	STM A	.05		0,30		

				Galvanized			
				M Erection		Total Kg:	12,47
SZ1	PIPING BOM SABIZ	64108 - 0	A	AREA A	1/1	TOTAL Kg:	12,47

Plant SZ1 PIPING BOM SABIZ
Line 64108 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Pipin

		В	allesti	ra					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	11/2010
	PUMA	<b>A</b> 5		16/11/2	010 10.1	12.48	1						DOC:	1E35	-65-1103	<u> </u>	я.	
			Bal	lestra						SUI	PHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Co	orr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) A	s.bly	Branch
1495	1	0	In	3,38		mm	,00	33,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	ımless API	5L GR. B			82,57		
2830	1	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	-F NPT 20	0 LB Forged			0,60		
254	1	0	In			mm	,00	8,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	)5		8,80		
2765	1	1/2	In			mm	,00	1,00	NR	202	Tee Reducing TA 50.7/2 THRD-F NPT Galvanized	3000# For	ged ASTM A	105		0,57		
976	1	1/2	In			mm	,00	1,00	NR	202	Reducing Insert M/F TA 50.7/2 THRD- Forged ASTM A 105 Galvanized	M NPT x 7	ΓHRD-F 300	0#		0,19		
1277	1	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,65		
										N	I Erection				Total Kg:	93,38		

TOTAL Kg:

93,38

AREA A

Α

PIPING BOM SABIZ

SZ1

64109 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specificatio	n
Line 64109 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			_

Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.12.48		DOC:	1E35-65-1103		
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.l	oly Branch
1433	1/2	0	In	2,77	mm	,00	14,00	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		17,72	
3107	1/2	0	In		mm	,00,	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		1,70	
	·		•	·					N	M Erection	Total Kg:	19,42	
SZ1	PIPING	BOM SAI	BIZ		64110	- 0			A A	AREA A 1/1	TOTAL Kg:	19,42	

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 64110 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		Ва	allestr	a						S	KETCH	IES MATERIAL LIST		PRO	<b>I:</b> 1E3	5	REV:	0	16/11/2010
	PUMA	5		16/11/20	010 10.12	2.48								DOC	: 1E3	5-65-1103			
			Balle	estra							SU	LPHUREX GH/F	Size: In	Thk: mm	Tem	p: °C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mn	n (	ty	Um	Pip. class	Component				Gen. Bolt	Weight (K	g) As.bl	y Branch
1493	1/2	0	In	2,77		mm	,00				202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			8,80	6	
2828	1/2	0	In			mm	,00	0 1	,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	00 LB Forge	d		0,30	0	
84	1/2	0	In			mm	,00	0 2	,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forge	d ASTM A	105		0,64	4	
252	1/2	0	In			mm	,00	0 4	,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forge	d ASTM A	105		1,60	0	
1275	1/2	0	In			mm	,00	0 1	,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# I Galvanized	Forged AS	TM A 105			0,30	0	
											N	/I Erection				Total Kg:	11,7		

AREA A

1 / 1

TOTAL Kg:

11,7

SZ1

PIPING BOM SABIZ

64111 - 0

KY64.10	Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
	<b>Line</b> 64111 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a					S	KETCH	ES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11	1/2010
	PUMA	5		16/11/20	10 10.12	.48							DOC:	1E35-65-1103			
			Ball	estra						SUL	PHUREX GH/F	Size: In	Γ <b>hk:</b> mm	Temp: °C	Pres: BAR	Cor	r: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg) A	s.bly B	Branch
1433	1/2	0	In	2,77		mm	,00	31,00	m	205	Pipe ASME B36.10 PL Seamless API 5L	GR. B			39,24		
1435	1	0	In	3,38		mm	,00	0,30	m	205	Pipe ASME B36.10 PL Seamless API 5L	GR. B			0,75		
3107	1/2	0	In			mm	,00	1,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ed ASTM A	105 G 61		1,70		
467	1	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RF ASTM A 105	(125÷250 z	AARH) For	ged 5192	0,80		
925	1	1/2	In			mm	,00	1,00	NR	205	Reducing Insert M/F TA 50.7/2 THRD-N Forged ASTM A 105	1 NPT x TI	HRD-F 3000	)#	0,19		
5192	1/2	0	In			mm	70,00	4,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/ASTM A 194 GR.2H	B18.2.1 U	NC/2.2 TAE	3.9	0,44		

M Erection

AREA A

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

1/1

,00

mm

64112 - 0

1,00 NR 205

A

661

SZ1

0

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	n SP.1406/2-SP.1407/2
<b>Line</b> 64112 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

43,12

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>J:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.48		DOC	: 1E35-65-1103		
	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	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		3,80		
										N	1 Erection	Total Kg	3,8		
SZ1	PIPING	BOM SA	BIZ		(	64113 - (	0			A A	AREA A 1/1	TOTAL Kg	3,8		

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> 64113 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allesti	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	10 10.12	.49							DOC:	1E35-	65-1103		•	
			Bal	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	C	Corr: mm
3.6. 1	01	62		TD:1	TO		T	04	<b>T</b> T	D: 1	G				C D K	W. * 14 (W. )	4 11	D 1
Mark	S1	S2		11	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	12,00	m	205	Pipe ASME B36.10 PL Seamless API 51	L GR. B				15,19		
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forg	ged ASTM	I A 105 G 61			3,40		
4687	1/2	0	In			mm	00	1.00	NR	205	Tee Straight TA 50 6/1 SW-F 3000# For	rged ASTN	ЛА 105			0.28		

M Erection

AREA A

Α

SZ1

PIPING BOM SABIZ

64114 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
<b>Line</b> 64114 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

18,87

		В	allestı	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	.49							DOC:	1E35-	-65-1103	•		
			Bal	lestra						SUI	LPHUREX GH/F	Size: In Th	k: mm	Temp:	°C	Pres: BAR	C	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	1,00	m	203	Pipe ASME B36.10 PL Seamless API 5I	GR. B				1,27	<u> </u>	
465	1/2	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250 A.	ARH) For	ged	5191	0,40		
925	1	1/2	In			mm	,00	1,00	NR	203	Reducing Insert M/F TA 50.7/2 THRD-Proged ASTM A 105	M NPT x THI	RD-F 3000	)#		0,19		
5191	1/2	0	In			mm	65,00	4,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASME ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 UN	C/2.2 TAE	3.9		0,44		
659	1/2	0	In			mm	,00	1,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _ B5	5C					
			1		-	1				N	1 Erection				Total Kg:	2,3		1

AREA A

SZ1

PIPING BOM SABIZ

64115 - 0

Plant SZ1 PIPING BOM SABIZPiping Class 203Welding specification SP.1406/2-SP.1407/3Line 64115 - 0FluidSystemDang. fluid typeCoatingDe presOp temArea AREA ASketch Sht 1/1Isometric codePage 1Zones

1 / 1

TOTAL Kg:

		I	Ballest	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 10	6/11/2010
	PUMA	<b>A</b> 5		16/11/20	10 10.12	.49							DOC:	1E35	-65-1103	•	
			Bal	lestra		•				SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp	: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2	L	∠en mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1435	1	0	In	3,38		mm	,00	3,00	m	203	Pipe ASME B36.10 PL Seamless API 5I	GR. B				7,51	
2830	1	0	In			mm	,00	1,00	NR	203	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,60	
467	1	0	In			mm	,00	1,00	NR	203	Flange Slip-On ASME B16.5 150 LB RI ASTM A 105	F (125÷250	AARH) For	ged	5192	0,80	
324	1	0	In	3,38		mm	,00	2,00	NR	203	90° Elbow Long Radius ASME B16.9 B GR. WPB	E Wrought	S ASTM A	234		0,27	
1256	1	0	In			mm	,00	1,00	NR	203	Union TA 50.7/2 THRD-F NPT 3000#	Forged AST	M A 105			0,65	
5192	1/2	0	In			mm	70,00	2,00	NR	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASMI ASTM A 193 B7/ASTM A 194 GR.2H	E B18.2.1 U	NC/2.2 TAI	3.9		0,22	
661	1	0	In			mm	,00	1,00	NR	203	Gasket TA 50.5/31 150 LB RF (125÷250	) AARH) _	B5C				
							•			N	1 Erection				Total Kg:	10,05	

AREA A

A

SZ1

PIPING BOM SABIZ

64116 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
<b>Line</b> 64116 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

1 / 1

TOTAL Kg:

		В	allestr	a					5	SKETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.12	.50							DOC:	1E35-	-65-1103		-	
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	4,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			5,06		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forged	l		0,30		
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 1	05		0,32		
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 1	05		1,20		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30		

M Erection

AREA A

Α

SZ1

PIPING BOM SABIZ

64119 - 0

Plant SZ1 PIPING BOM SABIZ
Line 64119 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Total Kg:

TOTAL Kg:

7,18

		I	Ballestr	a						SKETCE	IES MATERIAL LIST		PROJ	: 1E35	i	<b>REV:</b> 0	16/11/2010
	PUMA	<b>1</b> 5		16/11/2	010 10.1	2.50							DOC:	1E35	5-65-1103	•	
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	ly Branch
1493	1/2	0	In	2,77		mm	,00	4,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			5,06	
2828	1/2	0	In			mm	,00	1,00	NF	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forge	i		0,30	
84	1/2	0	In			mm	,00	1,00	NF	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	l ASTM A 1	05		0,32	
252	1/2	0	In			mm	,00	3,00	NF	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	l ASTM A 1	05		1,20	
1275	1/2	0	In			mm	,00	1,00	NF	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
										N	M Erection				Total Kg:	7,18	

Α

AREA A

1 / 1

TOTAL Kg:

7,18

SZ1

PIPING BOM SABIZ

64121 - 0

Plant SZ1 PIPING BOM SABIZ
Line 64121 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		I	Ballestr	a					S	SKETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3	5	<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/2	010 10.1	2.50	1						DO	: 1E3	5-65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Ten	p: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	ly Branch
1493	1/2	0	In	2,77		mm	,00	4,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			5,06	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forg	ed		0,30	
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	ASTM A	105		0,32	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	ASTM A	105		1,20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
·										N	M Erection				Total Kg:	7,18	

Α

AREA A

1 / 1

TOTAL Kg:

7,18

SZ1

PIPING BOM SABIZ

64122 - 0

Plant SZ1 PIPING BOM SABIZ
Line 64122 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		I	Ballestr	a					S	SKETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3	5	<b>REV:</b> 0	16/11/2010
	PUMA	15		16/11/2	010 10.1	2.50	1						DO	: 1E3	5-65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Ten	p: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	ly Branch
1493	1/2	0	In	2,77		mm	,00	4,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			5,06	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forg	ed		0,30	
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	ASTM A	105		0,32	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	ASTM A	105		1,20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
·										N	M Erection				Total Kg:	7,18	

TOTAL Kg:

7,18

AREA A

Α

SZ1

PIPING BOM SABIZ

64123 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
<b>Line</b> 64123 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.50			DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	Corr: mm
14 J G1 G2	T1 T2	 0. 7. 7. 1. 0			G DV	W 114 (W )	

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	2,00	m	203	Pipe ASME B36.10 PL E.R.W. API 5L GR. B		13,44	
297	3	0	In	3,18		mm	,00	1,00	NR	203	90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR.		1,18	
-											WPB		"	

				M Erection		Total Kg:	14,62
SZ1	PIPING BOM SABIZ	64126 - 0	A	AREA A	1/1	TOTAL Kg:	14,62

Plant SZ1 PIPING BOM SABIZ
Piping Class 203
Welding specification SP.1406/2-SP.1407/3
Line 64126 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

	•	В	allestr	a						SKETCH	IES MATERIAL LIST	•	PROJ	: 1E3:	5	<b>REV:</b> 0	16	/11/2010
	PUMA	<b>\</b> 5		16/11/20	010 10.1	2.50							DOC:	1E3:	5-65-1103	· · · · · · · · · · · · · · · · · · ·		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Tem	p: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1438	2	0	In	3,91		mm	,00	0,50	) m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				2,72		
1453	3	0	In	3,18		mm	,00	71,00	) m	203	Pipe ASME B36.10 PL E.R.W. API 5L	GR. B				477,27		
3006	3	0	In			mm	,00	1,00	) NF	203	Valve Check ST.46357/5 WAFER 150 ASTM A 36 CADMIUM PLATED R 8	`	5÷250 AAR	H) Cast	5204	1,60		
472	3	0	In			mm	,00	5,00	NF	203	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	F (125÷25	0 AARH) Fo	orged	5201	20,50		
129	3	0	In	3,18		mm	,00	1,00	) NF	203	45° Elbow Long Radius ASME B16.9 I WPB	BE E.R.W.	ASTM A 23	4 GR.		0,60		
297	3	0	In	3,18		mm	,00	11,00	) NF	203	90° Elbow Long Radius ASME B16.9 I WPB	BE E.R.W.	ASTM A 23	4 GR.		12,94		
1646	3	2	In	3,18	3,91	mm	,00	1,00	) NF	R 203	Reducer Concentric ASME B16.9 BE E	E.R.W. AST	ГМ A 234 G	R. WPE	3	0,57		
1056	1/2	0	In			mm	,00	1,00	) NF	R 203	Coupling TA 50.7/2 THRD-F NPT 300	00# Forged	ASTM A 10	)5		0,12		
5201	5/8	0	In			mm	95,00	12,00	) NF	203	Stud Bolt + 2 Nuts TA 50.48B/28 ASM	E B18.2.1	UNC/2.2 TA	В. 9		2,76		

110,00

,00

mm

mm

64127 - 0

4,00 NR 203

5,00 NR 203

Α

5204

666

SZ1

5/8

PIPING BOM SABIZ

ASTM A 193 B7/ASTM A 194 GR.2H

ASTM A 193 B7/ASTM A 194 GR.2H

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9

1/1

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) \_ B5C

PI_64.8	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
KV_64.9	<b>Line</b> 64127 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

M Erection

AREA A

1,00

520,08

520,08

Total Kg:

TOTAL Kg:

	·	Ba	llestr	a					5	SKETCH	IES MATERIAL LIST		PF	ROJ:	1E35	<b>REV:</b> 0 1	6/11/2010
	PUMA5	5		16/11/2	010 10.1	2.51							DO	OC:	1E35-65-1103		
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mi	n	Temp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	ı Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1497	1+1/2	0	In	3,68		mm	,00	0,50	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR.	В		2,02	
1498	2	0	In	3,91		mm	,00	12,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR.	В		65,25	
2833	2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Fo	orged		2,20	
89	2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM	A 10	5	3,00	
257	2	0	In			mm	,00	1,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM	A 10	5	3,30	
988	2	1+1/2	In			mm	,00	1,00	NR	202	Reducing Insert M/F TA 50.7/2 THRD-I Forged ASTM A 105 Galvanized	M NPT x 7	THRD-I	F 3000	)#	0,90	

Galvanized M Erection

AREA A

Union TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105

1/1

1,00 NR 202

A

,00

mm

64129 - 0

1279

SZ1

1+1/2 0

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ
Line 64129 - 0
Dang. fluid type
Area AREA A
Sketch Sht 1/1
System
Plant SZ1 PIPING BOM SABIZ
Fluid
System
De pres
Op tem
Page 1
Zones

1,26

77,93

77,93

Total Kg:

TOTAL Kg:

		В	allestr	a					,	SKETCH	HES MATERIAL LIST		PRO	<b>J:</b> 1E3	5	<b>REV:</b>	0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.12	2.51	1						DOC	: 1E3	5-65-1103	•		
			Ball	estra						SU	JLPHUREX GH/F	Size: In	Thk: mm	Tem	<b>p:</b> °C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	n Pip. class	Component				Gen. Bolt	Weight (Kg	g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	7,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			8,86	5	
2828	1/2	0	In			mm	,00	1,00	NI	R 202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	-F NPT 20	00 LB Forgo	ed		0,30	)	
84	1/2	0	In			mm	,00	2,00	NI	R 202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	d ASTM A	105		0,64	1	
252	1/2	0	In			mm	,00	4,00	NI	R 202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	d ASTM A	105		1,60	)	
1275	1/2	0	In			mm	,00	1,00	NI	R 202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	STM A 105			0,30	)	
										]	M Erection				Total Kg:	11,7		

AREA A

1 / 1

TOTAL Kg:

11,7

PIPING BOM SABIZ

64130 - 0

KY_64.2	Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
	<b>Line</b> 64130 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestra	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA	<b>\</b> 5		16/11/20	010 10.12	.51							DOC:	1E35-0	65-1103	•		
			Balle	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	С	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1495	1	0	In	3,38		mm	,00	5,00	_	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless AP	5L GR. B			12,51		
2830	1	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	00 LB Forged			0,60		
254	1	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	d ASTM A 10	05		3,30		
1277	1	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	STM A 105			0,65		
										N	M Erection				Total Kg:	17,06		

TOTAL Kg:

17,06

AREA A

A

SZ1

PIPING BOM SABIZ

64131 - 0

Plant SZ1 PIPING BOM SABIZ
Line 64131 - 0
Fluid
System
Dang, fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Bal	lestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.52		DOC:	1E35-65-1103		
	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	32,00		205	Pipe ASME B36.10 PL Seamless API 5L GR. B		40,50	
1435	1	0	In	3,38		mm	,00	0,30	m	205	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,75	
3107	1/2	0	In			mm	,00	2,00	NR	205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		3,40	
4942	1/2	0	In			mm	,00	1,00	NR	205	Steam Trap ST.46212/3 SW-F 300 LB Forged ASTM A 105 T 66		0,80	
467	1	0	In			mm	,00	1,00	NR	205	Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged	5192	0,80	
	·		·								ASTM A 105			
4687	1/2	0	In			mm	,00	1,00	NR	205	Tee Straight TA 50.6/1 SW-F 3000# Forged ASTM A 105		0,28	
925	1	1/2	In			mm	,00	1,00	NR	205	Reducing Insert M/F TA 50.7/2 THRD-M NPT x THRD-F 3000#		0,19	
			,								Forged ASTM A 105			
5191	1/2	0	In			mm	65,00	2,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		0,22	
		'			'	'					ASTM A 193 B7/ASTM A 194 GR.2H			
5192	1/2	0	In			mm	70,00	2,00	NR	205	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		0,22	
											ASTM A 193 B7/ASTM A 194 GR.2H			
659	1/2	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C			
661	1	0	In			mm	,00	1,00	NR	205	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C			
	•	1	·							N	M Erection	Total Kg:	47,16	
SZ1	PIPING	BOM SA	BIZ			64132	- 0			A A	AREA A 1/1	TOTAL Kg:	47,16	

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	n SP.1406/2-SP.1407/2
<b>Line</b> 64132 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		Ba	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	10 10.12	.52							DOC:	1E35	-65-1103			
			Ball	lestra						SU	LPHUREX GH/F	Size: In The	(; mm	Temp:	°C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00		_		Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5L 0	GR. B			12,66		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	F NPT 200 LF	3 Forged			0,30		
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged AS	TM A 10	)5		0,32		
252	1/2	0	In			mm	,00	4,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged AS	TM A 10	5		1,60		

1275	1/2	0	In	mm	,00	1,00 NR 202		7/2 THRD-F NPT 3000# Forged ASTM A 105		0,30
					_		Galvanized			
							M Erection		Total Kg:	15,18
SZ1	PIPING I	BOM S	ABIZ	64135 -	0	A	AREA A	1/1	TOTAL Kg:	15,18

Plant SZ1 PIPING BOM SABIZ
Line 64135 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Pipin

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.52		DOC:	1E35-65-1103		
	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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B			0,13	
		·	·							N	1 Erection		Total Kg:	0,13	
SZ1	PIPING	BOM SA	BIZ			65003 -	0			A A	REA A 1/1	TO	OTAL Kg:	0,13	

65Y8	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 65003 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.52		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temp: °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	I	en mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.h	ly Branch
1433	1/2	0	In	2,77		mm	,00	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13	
										N	1 Erection	Total Kg:	0,13	
SZ1	PIPING	BOM SA	BIZ		6	55004 - 0				A A	AREA A 1/1	TOTAL Kg:	0,13	

65Y13	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 65004 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.52		DOC:	1E35-65-1103		
	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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13		
									N	A Erection	Total Kg	0,13		
SZ1	PIPING	BOM SAI	BIZ		6500	5 - 0			A A	AREA A 1 / 1	TOTAL Kg	0,13		

65Y9	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 65005 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>I:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.52		DOC	: 1E35-65-1103		
	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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR.	В		0,13	
			•							M	Erection		Total Kg:	0,13	
SZ1	PIPING B	OM SAE	SIZ		(	65006 -	0			A A	REA A 1 / 1	7	TOTAL Kg:	0,13	

65Y14	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 65006 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SI	SKETCHES MATERIAL LIST P				REV:	0	16/11/2010
PUMA5	16/11/2010 10.12.53				DOC:	1E35-65-1103			
	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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13		
									N	A Erection	Total Kg:	0,13		
SZ1	PIPING	BOM SAI	BIZ		6500	7 - 0			A A	AREA A 1 / 1	TOTAL Kg:	0,13		

65Y21	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 65007 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.53		DOC:	1E35-65-1103		
	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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13		
									N	A Erection	Total Kg	: 0,13		
SZ1	PIPING	BOM SAI	BIZ		6500	3 - 0			A A	AREA A 1 / 1	TOTAL Kg	: 0,13		

65Y22	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 65008 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.53		DOC:	1E35-65-1103		
	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.	oly Branch
1433	1/2	0	In	2,77		mm	,00	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13	
										N	1 Erection	Total Kg:	0,13	
SZ1	PIPING	BOM SA	BIZ		(	65009 - (	0			A A	AREA A 1/1	TOTAL Kg:	0,13	

65Y23	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 65009 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.53		DOC:	1E35-65-1103		
	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. Bol	t Weight (Kg)	As.bly	Branch
1433	1/2	0	In	2,77	mm	,00	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13		
									N	A Erection	Total K	g: 0,13		
SZ1	PIPING	BOM SAI	BIZ		650	0 - 0			A A	AREA A 1/1	TOTAL K	g: 0,13		

65Y24	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 65010 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.54		DOC:	1E35-65-1103		
	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.h	ly Branch
1433	1/2	0	In	2,77		mm	,00	0,10	m	203	Pipe ASME B36.10 PL Se	amless API 5L GR. B		0,13	
				•						N	1 Erection		Total Kg:	0,13	
SZ1	PIPING	BOM SA	BIZ		(	55011 - 0	)			A A	AREA A	1 / 1	TOTAL Kg:	0,13	

65Y25	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification SP.1406/2-SP.1407/3				
	<b>Line</b> 65011 - 0	Fluid	System				
	Dang. fluid type	Coating	De pres	Op tem			
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
	Zones						

Balle	estra	SKETCHES MATERIAL LIST	PI	ROJ: 1E35	REV:	0 16/11/2010
PUMA5	16/11/2010 10.12.54		DO	OC: 1E35-65-110	3	
	Ballestra	SULPHUREX GH/F	Size: In Thk: mi	m <b>Temp:</b> °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Le	en mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bl	y Branch
1433	1/2	0	In	2,77	1	mm	,00	0,10	m	203	Pipe ASME B36.10 PL S	Seamless API 5L GR. B		0,13	
			•							N	M Erection		Total Kg:	0,13	
SZ1	PIPING	BOM SAI	BIZ		6	5012 - 0				A A	AREA A	1 / 1	TOTAL Kg:	0,13	

65Y26	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification SP.1406/2-SP.1407/3				
	<b>Line</b> 65012 - 0	Fluid	System				
	Dang. fluid type	Coating	De pres	Op tem			
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
	Zones						

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	)	16/11/2010
PUMA5	16/11/2010 10.12.54			DOC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In Th	hk: 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	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13		
									N	A Erection	Total Kg:	0,13		
SZ1	PIPING	BOM SAI	BIZ		6501	5 - 0			A A	AREA A 1 / 1	TOTAL Kg:	0,13		

65Y28	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification SP.1406/2-SP.1407/3				
	<b>Line</b> 65013 - 0	Fluid	System				
	Dang. fluid type	Coating	De pres	Op tem			
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
	Zones						

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	)	16/11/2010
PUMA5	16/11/2010 10.12.54			DOC:	1E35-65-1103			
	Ballestra	SULPHUREX GH/F	Size: In Th	hk: 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 Brai
1433	1/2	0	In	2,77		mm	,00	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13	
	•		•			•				N	1 Erection	Total Kg:	0,13	·
SZ1	PIPING	BOM SA	BIZ			65014 -	0			A A	AREA A 1/1	TOTAL Kg:	0,13	

65Y40	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification SP.1406/2-SP.1407/3				
	<b>Line</b> 65014 - 0	Fluid	System				
	Dang. fluid type	Coating	De pres	Op tem			
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
	Zones						

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.54		DOC:	1E35-65-1103		
	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	s.bly	Branch
1433	1/2	0	In	2,77	mm	,00	0,10	m	203	Pipe ASME B36.10 I	PL Seamless API 5L GR. B		0,13		
									N	1 Erection		Total Kg:	0,13		
SZ1	PIPING	BOM SAE	BIZ		6501:	5 - 0			A A	AREA A	1 / 1	TOTAL Kg:	0,13		

65Y41	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
	<b>Line</b> 65015 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Ball	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.12.54			DOC:	1E35-65-1103			
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.bl	y Branch
1433	1/2	0	In	2,77	mm	,00	0,10	m	203	Pipe ASME B36.10 PL S	eamless API 5L GR. B		0,13	
									N	1 Erection		Total Kg:	0,13	
SZ1	PIPING	BOM SAE	BIZ		6501	i - 0			A A	AREA A	1/1	TOTAL Kg:	0,13	

65Y42	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	1 SP.1406/2-SP.1407/3
	<b>Line</b> 65016 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.12.55		DOC	1E35-65-1103		
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) A	s.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,10	m	203	Pipe ASME B36.10 PL Seamless API 5L GR. B		0,13		
			•							N	1 Erection	Total Kg:	0,13		
SZ1	PIPING	BOM SA	BIZ			65017 -	0			A A	AREA A 1 / 1	TOTAL Kg:	0,13		

65Y46	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 65017 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Ball	estra	SKETCHES MATERIAL LIST		IPROI	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.12.55			DOC:	1E35-65-1103			
Ballestra		SULPHUREX GH/F	Size: In	Thk: mm	Temp: °C	Pres: BAR	<u>-</u>	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	0,10	m	203	Pipe ASME B36.10 PL	Seamless API 5L GR. B		0,13	
									N	1 Erection		Total Kg:	0,13	
SZ1	PIPING	BOM SAE	BIZ		65018	3 - 0			A A	AREA A	1/1	TOTAL Kg:	0,13	

65Y45	Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> 65018 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

<b>Mark</b> 1520	PUMA S1			16/11/2	010 10.1	2.55			SKETCI	1E35	65-1103	<b>REV:</b> 0	16/11/2010			
	S1	Ballestra				2.00			CI.	ILPHUREX GH/F	Size: In		Temp:		Pres: BAR	Corr: mm
	S1		Dan	estra					50	LI HUKEA GH/F	Size: III	THK; IIIII	remp:	<u> </u>	Fres: DAR	Corr; mm
1520	~	S2		T1	T2		Len mm	Qty	Um Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
	1/2	0	In	2,77		mm	,00	0,40	m 216	Pipe ASME B36.19 PL Seamless	ASTM A 312 T	P 316			0,52	
1521	3/4	0	In	2,87		mm	,00	3,50	m 216	Pipe ASME B36.19 PL Seamless A	ASTM A 312 T	P 316			6,02	
2862	1/2	0	In			mm	,00	1,00	NR 216	Valve Ball Full Port ST.46545/1 T A 182 GR. F316 S 99	HRD-F NPT 8	00# Forged A	STM		0,71	
2863	3/4	0	In			mm	,00	1,00	NR 216	Valve Ball Full Port ST.46545/1 T A 182 GR. F316 S 99	HRD-F NPT 8	00# Forged A	STM		0,92	
2868	3/4	0	In			mm	,00	1,00	NR 216	Valve Ball Full Port ST.46588/2 L Cast ASTM A 351 CF8 S 125	UG 150 LB RF	(125÷250 AA	ARH)	5381	1,94	
3192	3/4	0	In			mm	,00	1,00	NR 216	Strainer Y-Type ST.46350/5 FLG ASTM A 351 GR. CF8M F 72	150 LB RF (12	5÷250 AARH	) Cast	5125	2,86	
447	3/4	0	In			mm	,00	2,00	NR 216	Flange Lap-Joint ASME B16.5 15 ASTM A 105 Galvanized	0 LB Flat Face	Smooth Forge	d	5127	1,40	
165	3/4	0	In	2,87		mm	,00	1,00	NR 216	45° Elbow Long Radius ASME B GR. WP316	16.9 BE Wroug	ht S ASTM A	403		0,03	
333	3/4	0	In	2,87		mm	,00	2,00	NR 216	90° Elbow Long Radius ASME B GR. WP316	16.9 BE Wroug	ht S ASTM A	403		0,18	
1214	3/4	0	In	2,87		mm	,00	2,00	NR 216	Stub-End MSS SP-43 FLG x BE V WP316 Type A	Wrought S AST	M A 403 GR.			0,20	
5125	1/2	0	In			mm	65,00	4,00	NR 216	Stud Bolt + 2 Nuts TA 50.48B/28 ASTM A 193 B7/A194 2H Galvar		UNC/2.2 TAI	B. 9		0,44	
5127	1/2	0	In			mm	75,00	14,00	NR 216	Stud Bolt + 2 Nuts TA 50.48B/28 ASTM A 193 B7/A194 2H Galvar	ASME B18.2.1	UNC/2.2 TAI	B. 9		1,68	
711	3/4	0	In			mm	,00	6,00	NR 216	Gasket TA 50.5/31 150 LB RF (12		_ B5F				
5381	1/2	0	In			mm	30,00	16,00	NR 216	Screws for valves ASME B 18.2.1	/UNC ASTM	A 193 B7 Galv	anized		1,28	
	1		-	1	1		-			M Erection				Total Kg:	18,18	
SZ1	PIPING	BOM S.	ABIZ			65029 - 0	0		Α .	AREA A	1 / 1		Т	OTAL Kg:	18,18	

Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	n SP.1406/2-SP.1408/3
Line 65029 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a						S	KETCH	IES MATERIAL LIST		PRO	<b>)J:</b> 11	E35	<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/2	010 10.1	2.55								DO	C: 1H	E35-65-1103			
			Ball	estra							SU	LPHUREX GH/F	Size: In	Thk: mm	To	emp: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm		ty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1520	1/2	0	In	2,77		mm	,00	9	,00	m	216	Pipe ASME B36.19 PL Seamless ASTM	I A 312 TI	P 316			11,62		
2862	1/2	0	In			mm	,00	1	,00	NR	216	Valve Ball Full Port ST.46545/1 THRD A 182 GR. F316 S 99	-F NPT 80	00# Forgeo	ASTN	М	0,71		
446	1/2	0	In			mm	,00	7	,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face S	Smooth Fo	ged	5127	2,80		
1776	3/4	1/2	In	2,87	2,77	mm	,00	1	,00	NR	216	Reducer Concentric ASME B16.9 BE W WP316	rought S	ASTM A 4	03 GR	l	0,06		
4695	1/2	0	In			mm	,00	2	,00	NR	216	Tee Straight TA 50.6/1 SW-F 3000# For	rged ASTI	M A 182 G	R. F31	6	0,57		
1213	1/2	0	In	2,77		mm	,00	7	,00	NR	216	Stub-End MSS SP-43 FLG x BE Wroug WP316 Type A	ht S ASTN	M A 403 G	R.		0,59		
1297	1/2	0	In			mm	,00	1	,00	NR	216	Union TA 50.6/1 SW-F 3000# Forged A	STM A 1	82 GR. F3	16		0,39		
5127	1/2	0	In			mm	75,00	24	,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/A194 2H Galvanized	E B18.2.1	UNC/2.2	AB. 9		2,88		
710	1/2	0	In			mm	,00	6	,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH)	_ B5F					
	1		-		1		I				1	M Erection				Total Kg:	19,63		

AREA A

Α

1 / 1

TOTAL Kg:

19,63

SZ1

PIPING BOM SABIZ

65030 - 0

PSV\_65.1 Piping Class 216 Welding specification SP.1406/2-SP.1408/3 Plant SZ1 PIPING BOM SABIZ KY\_65.27A Line 65030 - 0 Fluid System PSH\_65.1 Dang. fluid type Coating De pres Op tem Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

	PUMA		Ballestr		010 10.1	2.56			SKETCH	IES MATERIAL LIST			1E35		<b>REV:</b> 0	16/11/2010
	PUMA	.5			010 10.1.	2.50						DOC:	1E35	-65-1103		
			Ball	lestra					SU	LPHUREX 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.b	ly Branch
1520	1/2	0	In	2,77		mm	,00	0,40	m 216	Pipe ASME B36.19 PL Seamless A	STM A 312 TF	316			0,52	
1521	3/4	0	In	2,87		mm	,00	4,00	m 216	Pipe ASME B36.19 PL Seamless A	STM A 312 TF	316			6,88	
2862	1/2	0	In			mm	,00	1,00	NR 216	Valve Ball Full Port ST.46545/1 TF A 182 GR. F316 S 99	HRD-F NPT 80	0# Forged A	STM		0,71	
2863	3/4	0	In			mm	,00	1,00	NR 216	Valve Ball Full Port ST.46545/1 TF A 182 GR. F316 S 99	HRD-F NPT 80	0# Forged A	STM		0,92	
2868	3/4	0	In			mm	,00	1,00	NR 216	Valve Ball Full Port ST.46588/2 LU Cast ASTM A 351 CF8 S 125	UG 150 LB RF	(125÷250 A.	ARH)	5381	1,94	
3192	3/4	0	In			mm	,00	1,00	NR 216	Strainer Y-Type ST.46350/5 FLG 1 ASTM A 351 GR. CF8M F 72	50 LB RF (125	÷250 AARH	I) Cast	5125	2,86	
447	3/4	0	In			mm	,00	4,00	NR 216	Flange Lap-Joint ASME B16.5 150 ASTM A 105 Galvanized	LB Flat Face S	mooth Forge	ed	5127	2,80	
165	3/4	0	In	2,87		mm	,00	1,00	NR 216	45° Elbow Long Radius ASME B1 GR. WP316	6.9 BE Wrough	t S ASTM A	403		0,03	
333	3/4	0	In	2,87		mm	,00	2,00	NR 216	90° Elbow Long Radius ASME B1 GR. WP316	6.9 BE Wrough	t S ASTM A	403		0,18	
1214	3/4	0	In	2,87		mm	,00	4,00	NR 216	Stub-End MSS SP-43 FLG x BE W WP316 Type A	rought S ASTN	1 A 403 GR.			0,41	
5125	1/2	0	In			mm	65,00	4,00	NR 216	Stud Bolt + 2 Nuts TA 50.48B/28 A ASTM A 193 B7/A194 2H Galvani		UNC/2.2 TA	B. 9		0,44	
5127	1/2	0	In			mm	75,00	18,00	NR 216	Stud Bolt + 2 Nuts TA 50.48B/28 A ASTM A 193 B7/A194 2H Galvani		UNC/2.2 TA	B. 9		2,16	
711	3/4	0	In			mm	,00	7,00	NR 216	Gasket TA 50.5/31 150 LB RF (125	5÷250 AARH)	_B5F				
5381	1/2	0	In			mm	30,00	16,00	NR 216	Screws for valves ASME B 18.2.1	UNC ASTM A	193 B7 Gal	vanized		1,28	
		-	-				· •		N	M Erection				Total Kg:	21,12	1
SZ1	PIPING	BOM S	ABIZ			65031	- 0		A A	AREA A	1 / 1		7	ΓΟΤΑL Kg:	21,12	

Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	SP.1406/2-SP.1408/3
Line 65031 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35	·	<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/2	010 10.1	2.56	1						DOC:	1E35	5-65-1103	•		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1520	1/2	0	In	2,77		mm	,00	9,00	m	216	Pipe ASME B36.19 PL Seamless ASTM	I A 312 TI	P 316			11,62		
2862	1/2	0	In			mm	,00	1,00	NR	216	Valve Ball Full Port ST.46545/1 THRD A 182 GR. F316 S 99	-F NPT 80	00# Forged A	STM		0,71		
446	1/2	0	In			mm	,00	5,00	NR	216	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face S	Smooth Forge	ed	5127	2,00		
1776	3/4	1/2	In	2,87	2,77	mm	,00	1,00	NR	216	Reducer Concentric ASME B16.9 BE W WP316	rought S	ASTM A 403	GR.		0,06		
4695	1/2	0	In			mm	,00	2,00	NR	216	Tee Straight TA 50.6/1 SW-F 3000# For	rged ASTN	A 182 GR.	F316		0,57		
1213	1/2	0	In	2,77		mm	,00	5,00	NR	216	Stub-End MSS SP-43 FLG x BE Wroug WP316 Type A	ht S ASTN	Л A 403 GR.			0,42		
1297	1/2	0	In			mm	,00	1,00	NR	216	Union TA 50.6/1 SW-F 3000# Forged A	STM A 18	32 GR. F316			0,39		
5127	1/2	0	In			mm	75,00	16,00	NR	216	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/A194 2H Galvanized	E B18.2.1	UNC/2.2 TA	B. 9		1,92		
710	1/2	0	In			mm	,00	4,00	NR	216	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH)	_ B5F					

M Erection

AREA A

PIPING BOM SABIZ

65032 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	SP.1406/2-SP.1408/3
Line 65032 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

1 / 1

Total Kg:

TOTAL Kg:

17,7

17,7

			Ballestr						SKETCI	HES MATERIAL LIST		PROJ			<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/2	010 10.12.	.56						DOC:	1E35-	65-1103		
			Ball	estra					SU	LPHUREX 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.bl	y Branch
1520	1/2	0	In	2,77		mm	,00	0,40	m 216	Pipe ASME B36.19 PL Seamless AS	ГМ А 312 ТР	316			0,52	
1521	3/4	0	In	2,87		mm	,00	5,00	m 216	Pipe ASME B36.19 PL Seamless AS	ГМ А 312 ТР	316			8,60	
2862	1/2	0	In			mm	,00	1,00	NR 216	Valve Ball Full Port ST.46545/1 THR A 182 GR. F316 S 99	D-F NPT 80	0# Forged A	STM		0,71	
2863	3/4	0	In			mm	,00	1,00	NR 216	Valve Ball Full Port ST.46545/1 THR A 182 GR. F316 S 99	D-F NPT 80	0# Forged A	STM		0,92	
2868	3/4	0	In			mm	,00	1,00	NR 216	Valve Ball Full Port ST.46588/2 LUC Cast ASTM A 351 CF8 S 125	3 150 LB RF	(125÷250 AA	ARH)	5381	1,94	
3192	3/4	0	In			mm	,00	1,00	NR 216	Strainer Y-Type ST.46350/5 FLG 150 ASTM A 351 GR. CF8M F 72	) LB RF (125	÷250 AARH	) Cast	5125	2,86	
147	3/4	0	In			mm	,00	4,00	NR 216	Flange Lap-Joint ASME B16.5 150 L ASTM A 105 Galvanized	B Flat Face S	mooth Forge	ed	5127	2,80	
79	3/4	0	In			mm	,00	1,00	NR 216	45° Elbow TA 50.7/2 THRD-F NPT F316	3000# Forge	1 ASTM A 1	82 GR.		0,52	
333	3/4	0	In	2,87		mm	,00	3,00	NR 216	90° Elbow Long Radius ASME B16.9 GR, WP316	BE Wrough	t S ASTM A	403		0,26	
214	3/4	0	In	2,87		mm	,00	4,00	NR 216	Stub-End MSS SP-43 FLG x BE Wro WP316 Type A	ught S ASTM	I A 403 GR.			0,41	
5125	1/2	0	In			mm	65,00	4,00	NR 216	Stud Bolt + 2 Nuts TA 50.48B/28 AS ASTM A 193 B7/A194 2H Galvanize		JNC/2.2 TA	В. 9		0,44	
5127	1/2	0	In			mm	75,00	18,00	NR 216	Stud Bolt + 2 Nuts TA 50.48B/28 AS ASTM A 193 B7/A194 2H Galvanize	ME B18.2.1	JNC/2.2 TA	B. 9		2,16	
711	3/4	0	In			mm	.00	7,00	NR 216	Gasket TA 50.5/31 150 LB RF (125÷		B5F				
381	1/2	0	In			mm	30,00		NR 216	Screws for valves ASME B 18.2.1 /U			vanized		1,28	
-		l		1	ı	1			]	M Erection				Total Kg:	23,42	
SZ1	PIPING	BOM S	ABIZ			65033 - 0	0		Α .	AREA A	1 / 1		Т	OTAL Kg:	23,42	
							Plant SZ1 I		OM SABIZ	Piping Class 216 Fluid				ding specificat	ion SP.1406/2-SP.1408/	/3

Coating

Sketch Sht 1/1

De pres

Isometric code

Dang. fluid type

Area AREA A

Zones

Page 1

Op tem

		В	allestr	a						SK	ETCH	ES MATERIAL LIST		P	ROJ:	1E35		REV:	16	/11/2010
	PUMA	.5		16/11/2	010 10.12	2.56	1							D	OC:	1E35-	65-1103	•		
			Ball	estra							SU	LPHUREX GH/F	Size: In	Thk: n	m	Temp:	°C	Pres: BAR	(	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Uı	m Pi	ip. class	Component					Gen. Bolt	Weight (Kg)	As.bly	Branch
1520	1/2	0	In	2,77		mm	,00	9,0	) n	n 21	16	Pipe ASME B36.19 PL Seamless ASTM	1 A 312 TI	P 316				11,62		
2862	1/2	0	In			mm	,00	1,00	) N	R 21	16	Valve Ball Full Port ST.46545/1 THRD A 182 GR. F316 S 99	-F NPT 80	00# For	ged AS	STM		0,71		
446	1/2	0	In			mm	,00	7,00	) N	R 21	16	Flange Lap-Joint ASME B16.5 150 LB ASTM A 105 Galvanized	Flat Face S	Smooth	Forged	1	5127	2,80		
1776	3/4	1/2	In	2,87	2,77	mm	,00	1,00	) N	R 21	16	Reducer Concentric ASME B16.9 BE W WP316	rought S	ASTM A	A 403 (	GR.		0,06		
4695	1/2	0	In			mm	,00	2,00	) N	R 21	16	Tee Straight TA 50.6/1 SW-F 3000# Fo	rged ASTN	M A 182	GR. F	F316		0,57		
1213	1/2	0	In	2,77		mm	,00	7,0	) N	R 21	16	Stub-End MSS SP-43 FLG x BE Wroug WP316 Type A	ht S ASTN	M A 403	GR.			0,59		
1297	1/2	0	In			mm	,00	1,00	) N	R 21	16	Union TA 50.6/1 SW-F 3000# Forged A	STM A 18	82 GR.	F316			0,39		
5127	1/2	0	In			mm	75,00	24,00	) N	R 21	16	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/A194 2H Galvanized	E B18.2.1	UNC/2.	2 TAB	3.9		2,88		
710	1/2	0	In			mm	,00	6,0	) N	R 21	16	Gasket TA 50.5/31 150 LB RF (125÷25	0 AARH)	_ B5F						
	1	'	'	1	1	1					N	1 Erection					Total Kg:	19,63		'

AREA A

1 / 1

TOTAL Kg:

19,63

SZ1

PIPING BOM SABIZ

PSV_65.2	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	SP.1406/2-SP.1408/3
KY_65.27B	<b>Line</b> 65034 - 0	Fluid	System	
PSH_65.2	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		I	Ballestr	a					5	SKETCH	IES MATERIAL LIST		PROJ	1E35	i	<b>REV:</b> 0	16/11/201
	PUMA	<b>1</b> 5		16/11/2	010 10.1	2.56							DOC:	1E35	5-65-1103		•
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (Kg) As	.bly Brancl
1493	1/2	0	In	2,77		mm	,00	7,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			8,86	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forge	i		0,30	
84	1/2	0	In			mm	,00	2,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	I ASTM A	05		0,64	
252	1/2	0	In			mm	,00	4,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	I ASTM A	05		1,60	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
										N	// Erection				Total Kg:	11,7	

AREA A

1 / 1

TOTAL Kg:

11,7

SZ1

PIPING BOM SABIZ

65101 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65101 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a						SK	ЕТСН	ES MATERIAL LIST		PF	ROJ:	1E35	<b>REV:</b> 0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.12	.56								DO	OC:	1E35-65-1103		
			Ball	estra							SUI	PHUREX GH/F	Size: In	Thk: mi	n	<b>Temp:</b> °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	U	m P	ip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	8,0	) r	n 20	02	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR.	В		10,13	
2828	1/2	0	In			mm	,00,	1,0	) N	IR 20	.02	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Fo	orged		0,30	
84	1/2	0	In			mm	,00	2,0	) N	IR 20	02	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forged	l ASTM	A 10	5	0,64	
252	1/2	0	In			mm	,00	4,0	) N	IR 20	02	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forged	l ASTM	A 10	5	1,60	
1275	1/2	0	In			mm	,00	3,0	) N	IR 20	02	Union TA 50.7/2 THRD-F NPT 3000# I Galvanized	Forged AS	TM A 1	05		0,90	

M Erection

AREA A

Α

SZ1

PIPING BOM SABIZ

65102 - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	<u> </u>
<b>Line</b> 65102 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

13,57

13,57

		I	Ballestr	a						SKETCE	IES MATERIAL LIST		PROJ	: 1E35	i	<b>REV:</b> 0	16/11/2010
	PUMA	<b>1</b> 5		16/11/2	010 10.1	2.57							DOC:	1E35	5-65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Un	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	y Branch
1493	1/2	0	In	2,77		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			6,33	
2828	1/2	0	In			mm	,00	1,00	NF	R 202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	-F NPT 20	0 LB Forge	i		0,30	
84	1/2	0	In			mm	,00	2,00	NF	R 202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	ASTM A	05		0,64	
252	1/2	0	In			mm	,00	6,00	NF	R 202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	ASTM A	05		2,40	
1275	1/2	0	In			mm	,00	1,00	NF	R 202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
										N	// Erection				Total Kg:	9,97	

AREA A

1 / 1

TOTAL Kg:

9,97

SZ1

PIPING BOM SABIZ

65103 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65103 - 0
Dang. fluid type
Dang. fluid type
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones
Welding specification
System
Depres
Op tem
Isometric code
Page 1

		I	Ballestr	a					S	KETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3:	5	REV	: 0	16/11/2010
	PUMA	15		16/11/2	010 10.1	2.57	1						DOC	: 1E3:	5-65-1103	•		
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Tem	): °C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (	Kg) As.bl	ly Branch
1493	1/2	0	In	2,77		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			6	,33	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forg	ed		0.	,30	
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forgeo	l ASTM A	105		0	,32	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forgeo	l ASTM A	105		1	,20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0	,30	
										N	A Erection				Total Kg:	8	,45	

TOTAL Kg:

8,45

AREA A

Α

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification		
<b>Line</b> 65104 - 0	Fluid	System		
Dang. fluid type	Coating	De pres	Op tem	
Area AREA A	Sketch Sht 1/1	Isometric code		Page 1
Zones				
Area AREA A	5	•	Op tem	Page 1

		I	Ballestr	a					S	SKETCH	IES MATERIAL LIST		PRO	<b>J:</b> 1E3.	5	REV:	0	16/11/2010
	PUMA	15		16/11/2	010 10.1	2.57							DOC	: 1E3	5-65-1103	•		
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: mm	Tem	p: °C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	Pip. class	Component				Gen. Bolt	Weight (F	(g) As.bl	y Branch
1493	1/2	0	In	2,77		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			6,	33	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forg	ed		0,.	30	
84	1/2	0	In			mm	,00	2,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forgeo	l ASTM A	105		0,0	64	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forgeo	l ASTM A	105		1,,	20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,.	30	
										N	A Erection				Total Kg:	8,	77	

TOTAL Kg:

8,77

AREA A

Α

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specificatio	n
<b>Line</b> 65105 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		I	Ballestr	a						SKETCH	IES MATERIAL LIST		PROJ	: 1E35	i	<b>REV:</b> 0	16/11/2010
	PUMA	<b>1</b> 5		16/11/2	010 10.1	2.57							DOC:	1E35	5-65-1103		
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	n Pip. class	Component				Gen. Bolt	Weight (Kg) As.bl	y Branch
1493	1/2	0	In	2,77		mm	,00	5,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			6,33	
2828	1/2	0	In			mm	,00	1,00	NF	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forge	i		0,30	
84	1/2	0	In			mm	,00	1,00	NF	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	I ASTM A 1	05		0,32	
252	1/2	0	In			mm	,00	4,00	NF	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	I ASTM A 1	05		1,60	
1275	1/2	0	In			mm	,00	1,00	NF	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
										N	M Erection				Total Kg:	8,85	

AREA A

1 / 1

SZ1

PIPING BOM SABIZ

65106 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65106 - 0
Fluid
Dang. fluid type
Coating
Pepres
Op tem
Area AREA A
Sketch Sht 1/1
Sometric code
Page 1
Zones

8,85

TOTAL Kg:

		I	Ballestr	a					,	SKETCH	IES MATERIAL LIST		PROJ	: 1E35	i	<b>REV:</b> 0	16/11/20
	PUMA	<b>1</b> 5		16/11/2	010 10.1	2.58							DOC:	1E35	5-65-1103		•
			Ball	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Un	n Pip. class	Component				Gen. Bolt	Weight (Kg) As	.bly Branc
1493	1/2	0	In	2,77		mm	,00	7,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			8,86	
2828	1/2	0	In			mm	,00	1,00	NF	R 202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	-F NPT 20	0 LB Forge	i		0,30	
84	1/2	0	In			mm	,00	2,00	NF	R 202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	l ASTM A	05		0,64	
252	1/2	0	In			mm	,00	4,00	NF	R 202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	ASTM A	05		1,60	
1275	1/2	0	In			mm	,00	1,00	NF	R 202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 105			0,30	
										N	M Erection				Total Kg:	11,7	

AREA A

1 / 1

TOTAL Kg:

11,7

SZ1

PIPING BOM SABIZ

65107 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65107 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		I	Ballestr	a					S	KETCH	IES MATERIAL LIST		PR	OJ:	1E35	<b>REV:</b> 0	16/	/11/2010
	PUMA	15		16/11/2	010 10.1	2.58	1						DO	C:	1E35-65-1103	•		
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm		Temp: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As	s.bly	Branch
1493	1/2	0	In	2,77		mm	,00	4,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. l	3		5,06		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Fo	ged		0,30		
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forge	l ASTM	A 105	i	0,32		
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forge	l ASTM	A 105	i	1,20		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 10	5		0,30		
·										N	1 Erection				Total Kg:	7,18		

TOTAL Kg:

7,18

AREA A

Α

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	n
<b>Line</b> 65108 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b>	0	16/11/2010
PUMA5	16/11/2010 10.12.58		DOC:	1E35-65-1103			
	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
1493	1/2	0	In	2,77	mm	,00	10,00	m	202	Pipe ASME B36.10 THRD-M NPT Seamless API 5L GR. B		12,66	
										Galvanized			
2828	1/2	0	In		mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD-F NPT 200 LB Forged		0,30	
						-				BRASS NICKEL PLATED S 87		<u> </u>	
390	1/2	0	In		mm	,00	2,00	NR	202	Flange ASME B16.5 THRD-F NPT 150 LB RF (125÷250 AARH)	5125	0,80	
			1	-						Forged ASTM A 105 Galvanized	•		
84	1/2	0	In		mm	,00	2,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,64	
			1	-						Galvanized	'		
252	1/2	0	In		mm	,00	6,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		2,40	
			1	-						Galvanized	•		
1275	1/2	0	In		mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,30	
										Galvanized	1		
5125	1/2	0	In		mm	65,00	4,00	NR	202	Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9		0,44	
						_			-	ASTM A 193 B7/A194 2H Galvanized	1	<u> </u>	
659	1/2	0	In		mm	,00	1,00	NR	202	Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C			
				•	'	•		•	N	M Erection	Total Kg:	17,54	
SZ1	PIPING	BOM SA	BIZ		65109 -	0			A A	AREA A 1 / 1	TOTAL Kg:	17,54	

PICV_65.1 Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
PSL_65.1 Line 65109 - 0	Fluid	System	
KY_65.28 Dang, fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		I	Ballestr	a					S	KETCH	IES MATERIAL LIST		PR	OJ:	1E35	<b>REV:</b> 0	16/	/11/2010
	PUMA	15		16/11/2	010 10.1	2.58	1						DO	C:	1E35-65-1103	•		
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Thk: mm		Temp: °C	Pres: BAR	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As	s.bly	Branch
1493	1/2	0	In	2,77		mm	,00	4,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. l	3		5,06		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Fo	ged		0,30		
84	1/2	0	In			mm	,00	1,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forge	l ASTM	A 105	i	0,32		
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 300 Galvanized	00# Forge	l ASTM	A 105	i	1,20		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A 10	5		0,30		
·										N	1 Erection				Total Kg:	7,18		

TOTAL Kg:

7,18

AREA A

Α

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	1
Line 65111 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ	1E35		REV:	0	16/11/2010
	PUMA	.5		16/11/20	010 10.1	2.58							DOC:	1E35	-65-1103	-		
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp	:°C	Pres: BAR		Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (1	Kg) As.b	ly Branch
1493	1/2	0	In	2,77		mm	,00		_	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B				33	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	-F NPT 20	) LB Forged			0,	30	
84	1/2	0	In			mm	,00	2,00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 1	05		0,	64	
252	1/2	0	In			mm	,00	3,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 1	05		1,	20	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	ΓM A 105			0,	30	
										N	1 Erection				Total Kg:	8,	,77	

AREA A

1 / 1

TOTAL Kg:

8,77

SZ1

PIPING BOM SABIZ

Plant SZ1 PIPING BOM SABIZ	Piping Class 202	Welding specification	
<b>Line</b> 65112 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	allestr	a						S	KETCH	IES MATERIAL LIST		PRO	) <b>J:</b> 1E	35	<b>REV:</b> 0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.12	.58								DOC	C: 1E	35-65-1103		
			Ball	estra							SUI	LPHUREX GH/F	Size: In	Thk: mm	Te	mp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Q	ty l	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	5,	00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			6,33	
2828	1/2	0	In			mm	,00	1,	00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB Forg	ged		0,30	
84	1/2	0	In			mm	,00	1,	00	NR	202	45° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A	105		0,32	
252	1/2	0	In			mm	,00	3,	00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A	105		1,20	
1275	1/2	0	In			mm	,00	1,	00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS'	TM A 105	i		0,30	

M Erection

AREA A

Α

SZ1

PIPING BOM SABIZ

65154 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65154 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Total Kg:

TOTAL Kg:

8,45

8,45

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/20	010 10.12	.59							DOC:	1E35-65-1103		
			Ball	estra						SU	LPHUREX 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.b	ly Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B		3,80	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	) LB Forged		0,30	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	5	0,80	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	ΓM A 105		0,30	
										N	/I Erection			Total Kg:	5,2	

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

65155 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65155 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ	1E35		REV:	0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.12	2.59							DOC:	1E35-	65-1103	•		
			Ball	lestra						SUI	LPHUREX 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 (K	g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5	5L GR. B			3,8	80	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,3	80	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	05		0,8	80	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AST	TM A 105			0,3	80	
										N	1 Erection				Total Kg:	5,2	2	

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

65156 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65156 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestra	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA	.5		16/11/20	010 10.12	.59							DOC:	1E35-	65-1103	•		
			Balle	estra						SU	LPHUREX GH/F	Size: In	Thk: mm	Temp:	°C	Pres: BAR	С	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	3,00	_	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless AP	5L GR. B			3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	F NPT 20	00 LB Forged			0,30		
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forge	d ASTM A 10	)5		0,80		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	STM A 105			0,30		
										N	M Erection				Total Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

65157 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65157 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/20	010 10.12	.59							DOC:	1E35-65-1103		
			Ball	estra						SU	LPHUREX 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.b	ly Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B		3,80	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	) LB Forged		0,30	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	5	0,80	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	ΓM A 105		0,30	
										N	/I Erection			Total Kg:	5,2	

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

65158 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65158 - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 202
Pipin

		F	Ballestr	<b>·</b> a					S	KETCH	ES MATERIAL LIST		Pl	ROJ:	1E35	REV:	0 16	5/11/2010
	PUMA	.5		16/11/2	010 10.13	.00							D	OC:	1E35-65-1103			
		Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: m	m	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
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR	. В		3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB F	orged		0,30	1	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	i ASTN	I A 10	5	0,80	1	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A	05		0,30	1	
										N	1 Erection				Total Kg:	5,2		

TOTAL Kg:

5,2

AREA A

Α

SZ1

PIPING BOM SABIZ

65159 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65159 - 0
Fluid
System
Dang, fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		REV:	0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.13	.00							DOC:	1E35-65-1103	3	-		
			Ball	estra						SUI	LPHUREX GH/F	Size: In	Γhk: mm	Temp: °C	Pre	s: BAR		Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bo	lt We	ight (Kg	g) As.bly	Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5	L GR. B			3,80	)	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,30	)	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	5		0,80	)	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AST	M A 105			0,30	)	
										N	1 Erection			Total I	Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

65160 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65160 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		В	Ballestr	a					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35		REV:	0 1	16/11/2010
	PUMA	.5		16/11/20	010 10.13	3.00							DOC:	1E35	-65-1103	•		
			Ball	lestra						SUI	LPHUREX 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 (F	(g) As.bly	y Branch
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR. B			3,	80	
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	) LB Forgeo	Į		0,	30	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 1	05		0,	80	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	ΓM A 105			0,	30	
										N	1 Erection				Total Kg:	5,	2	

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

65161 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65161 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		F	Ballest	ra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	15		16/11/2	010 10.13	3.00	1						DOC:	1E35-6	55-1103			
			Bal	llestra						SUI	LPHUREX GH/F	Size: In Th	nk: mm	Temp:	PC C	Pres: BAR	С	orr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			(	Gen. Bolt	Weight (Kg)	As.bly	Branch
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5L	GR. B			3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200 L	B Forged			0,30		
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged A	STM A 10	)5		0,80		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged ASTM	I A 105			0,30		
										N	1 Erection				Total Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

65162 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65162 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

		F	Ballestr	a					S	KETCH	ES MATERIAL LIST		Pl	ROJ:	1E35	REV:	) 16	5/11/2010
	PUMA	.5		16/11/2	010 10.13	.00							D	OC:	1E35-65-1103	•		
			Ball	lestra						SUI	LPHUREX GH/F	Size: In	Thk: m	m	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
1493	1/2	0	In	2,77		mm	,00	3,00	m	202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API	5L GR	. В		3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 20	0 LB F	orged		0,30		
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forgeo	i ASTN	I A 10	5	0,80		
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AS	TM A	05		0,30		
										N	1 Erection				Total Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

65163 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65163 - 0
Dang, fluid type
Area AREA A
Sketch Sht 1/1
System

Page 1

Zones

		В	allestr	a					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		REV:	0 1	6/11/2010
	PUMA	.5		16/11/20	010 10.13	.01							DOC:	1E35-65-	1103	•		
			Ball	estra						SU	LPHUREX GH/F	Size: In	Γhk: mm	Temp: °C		Pres: BAR		Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Otv	Um	Pip. class	Component			Ger	n. Bolt	Weight (Kg	2) As.blv	Branch
1493	1/2	0	In	2,77		mm	,00			202	Pipe ASME B36.10 THRD-M NPT Sea Galvanized	mless API 5	L GR. B			3,80		
2828	1/2	0	In			mm	,00	1,00	NR	202	Valve Ball Full Port ST.46330/3 THRD- BRASS NICKEL PLATED S 87	F NPT 200	LB Forged			0,30	)	
252	1/2	0	In			mm	,00	2,00	NR	202	90° Elbow TA 50.7/2 THRD-F NPT 30 Galvanized	00# Forged	ASTM A 10	)5		0,80	)	
1275	1/2	0	In			mm	,00	1,00	NR	202	Union TA 50.7/2 THRD-F NPT 3000# Galvanized	Forged AST	M A 105			0,30	)	
										N	// Erection			To	otal Kg:	5,2		

TOTAL Kg:

5,2

AREA A

A

SZ1

PIPING BOM SABIZ

65164 - 0

Plant SZ1 PIPING BOM SABIZ
Line 65164 - 0
Fluid
System
Dang. fluid type
Coating
De pres
Op tem
Area AREA A
Sketch Sht 1/1
Isometric code
Page 1
Zones

Bal	lestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.01		DOC:	1E35-65-1103		
	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	296,00	m 205	Pipe ASME B36.10 PL Seamless API 5L GR. B		374,66	
1434	3/4	0	In	2,87	mm	,00	60,00	m 205	Pipe ASME B36.10 PL Seamless API 5L GR. B		101,19	
3107	1/2	0	In		mm	,00	35,00	NR 205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		59,50	
3108	3/4	0	In		mm	,00	6,00	NR 205	Valve Gate ST.46270/3 SW-F 800# Forged ASTM A 105 G 61		12,60	
4942	1/2	0	In		mm	,00	13,00	NR 205	Steam Trap ST.46212/3 SW-F 300 LB Forged ASTM A 105 T 66		10,40	
323	3/4	0	In	2,87	mm	,00	24,00	NR 205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		2,07	
324	1	0	In	3,38	mm	,00	12,00	NR 205	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB		1,62	
2797	3/4	1/2	In		mm	,00	26,00	NR 205	Tee Reducing TA 50.6/1 SW-F 3000# Forged ASTM A 105		9,62	
4687	1/2	0	In		mm	,00	3,00	NR 205	Tee Straight TA 50.6/1 SW-F 3000# Forged ASTM A 105		0,84	
1091	1/2	0	In		mm	,00	2,00	NR 205	Coupling TA 50.6/1 SW-F 3000# Forged ASTM A 105		0,28	
4546	1/2	0	In		mm	,00	3,00	NR 205	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		0,36	
4547	3/4	0	In		mm	,00	6,00	NR 205	Cap TA 50.7/2 THRD-F NPT 3000# Forged ASTM A 105		1,14	
			·		,				M Erection	Total Kg:	574,28	
SZ1	PIPING	BOM SA	ABIZ		TRAC.	VB - 0		A	AREA A 1/1	TOTAL Kg:	574,28	

Plant SZ1 PIPING BOM SABIZ	Piping Class 205	Welding specification	on SP.1406/2-SP.1407/2
Line TRAC. VB - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

		В	Ballesti	a					S	KETCH	IES MATERIAL LIST		PR	<b>OJ:</b> 11	E35	<b>REV:</b> 0	16/11/2010
	PUMA	5		16/11/20	010 10.1	3.01							DO	<b>C:</b> 11	E35-65-1103		
			Bal	lestra						SU	LPHUREX GH/F	Size: In	Thk: mm	Т	'emp: °C	Pres: BAR	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.b	ly Branch
1433	1/2	0	In	2,77		mm	,00,	60,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				75,95	
1434	3/4	0	In	2,87		mm	,00,	100,00	m	203	Pipe ASME B36.10 PL Seamless API 5	L GR. B				168,65	
2828	1/2	0	In			mm	,00	6,00	NR	203	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	-F NPT 20	00 LB For	ged		1,80	
2829	3/4	0	In			mm	,00	10,00	NR	203	Valve Ball Full Port ST.46330/3 THRD BRASS NICKEL PLATED S 87	-F NPT 20	00 LB For	ged		4,00	
3116	1/2	0	In			mm	,00	6,00	NR	203	Valve Globe ST.46004/3 THRD-F NPT	200 LB F	Forged BR	ONZE	D	4,20	
3117	3/4	0	In			mm	,00	10,00	NR	203	Valve Globe ST.46004/3 THRD-F NPT	200 LB F	Forged BR	ONZE	D	8,00	
4687	1/2	0	In			mm	,00,	12,00	) NR	205	Tee Straight TA 50.6/1 SW-F 3000# For	rged ASTN	M A 105			3,36	
4398	1/2	1/4	In			mm	,00	24,00	NR	203	Coupling Reducing TA 50.7/2 THRD-F	NPT 300	0# Forged	ASTM	Л А	0,72	
4449	3/4	1/2	In			mm	,00,	20,00	NR	205	Coupling Reducing TA 50.6/1 SW-F 30	00# Forge	d ASTM	A 105		0,60	

M Erection

AREA A

1 / 1

Α

SZ1

PIPING BOM SABIZ

TRAC. WH - 0

Plant SZ1 PIPING BOM SABIZ	Piping Class 203	Welding specification	SP.1406/2-SP.1407/3
Line TRAC. WH - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Total Kg:

TOTAL Kg:

267,28

267,28

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.01		DOC:	1E35-65-1103		
	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	0,20	m	212	Pipe ASME B36.10 PL	Seamless API 5L GR. B		0,25	
				·						N	A Erection		Total Kg:	0,25	
SZ1	PIPING	BOM SAI	BIZ			VEST. 6	52A1A - 0			A A	AREA A	1/1	TOTAL Kg:	0,25	

TI_62.4	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specificatio	n SP.1406/2-SP.1407/3
	Line VEST. 62A1A - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>J:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.02		DOC	: 1E35-65-1103		
	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	0,20	m	212	Pipe ASME B36.10 PI	L Seamless API 5L GR. B		0,25	
		•								M	Erection		Total Kg:	0,25	
SZ1	PIPING B	OM SAE	BIZ			VEST.	52A1B - 0			A A	REA A	1 / 1	TOTAL Kg:	0,25	

TI_62.2	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	n SP.1406/2-SP.1407/3
	<b>Line</b> VEST. 62A1B - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.13.02			DOC:	1E35-65-1103			
	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	G	en. Bolt	Weight (Kg) As.bly	Branch
1433	1/2	0	In	2,77		mm	,00	0,20	m	212	Pipe ASME B36.10 PL Seamless API 5L GR. B			0,25	
			•	·						N	1 Erection	1	Total Kg:	0,25	
SZ1	PIPING	BOM SA	BIZ			VEST.	62A2 - 0			A A	AREA A 1 / 1	TO	TAL Kg:	0,25	

TI_62.3	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specificatio	n SP.1406/2-SP.1407/3
	Line VEST. 62A2 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		Ba	llestra	1						SK	ETCH	IES MATERIAL LIST			PROJ	1E35		REV:	0	16/11/2010
	PUMA5			16/11/20	10 10.13.	.02									DOC:	1E35	-65-1103			
			Balle	stra							SU	LPHUREX GH/F	Size	e: In ]	Γhk: mm	Temp	:°C	Pres: BAR		Corr: mm
				I	I												1			
Mark	S1	S2		T1	T2		Len mm	ı Qt	7   Ui	m P	ip. class	Component					Gen. Bolt	Weight (H	(g) As.b	ly Branch
3155	1/4	0	In			mm	,00	1,0	0 N	R 2	12	Valve Plug ST.46019/1 THRD-F	NPT PN 16	Forge	d ASTM A	182		0,	20	
												GR. F316 M 53							·	
											N	M Erection					Total Kg:	0,	2	
SZ1	PIPING E	OM SAI	BIZ			VEST.	62F6A - 0	)			A A	AREA A	1 / 1			ŗ	TOTAL Kg:	0,	2	

Plant SZ1 PIPING BOM SABIZ
Line VEST. 62F6A - 0
Pluid
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1
System
Pepres
Op tem
Area Sketch Sht 1/1
Sometric code
Page 1
Zones

		В	allesti	ra					,	SKET	<b>CHI</b>	ES MATERIAL LIST		PROJ	1E35		REV:	0	16/11/2010
	PUMA	5		16/11/2	2010 10.1	13.02								DOC:	1E35	-65-1103			
			Bal	lestra							SULI	PHUREX GH/F	Size: In T	hk: mm	Temp	:°C	Pres: BAR		Corr: mm
							T			_						1			
Mark	S1	S2		T1	T2		Len mm	ı Q	ty   Un	Pip. c	class	Component				Gen. Bolt	Weight (K	g) As.bl	y Branch
3155	1/4	0	In			mm	,00	) 1	00 NI	R 212		Valve Plug ST.46019/1 THRD-F NPT	PN 16 Forge	l ASTM A	182		0,2	0	
						'						GR. F316 M 53							
											M	Erection				Total Kg:	0,2		
SZ1	PIPING	BOM SA	ABIZ			VEST.	62F6B - 0	)		A	AF	REA A 1	/ 1		,	ΓΟΤΑL Kg:	0,2		

Plant SZ1 PIPING BOM SABIZ
Line VEST. 62F6B - 0
Plant SZ1 PIPING BOM SABIZ
Piping Class 212

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>J:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.02		DOC	: 1E35-65-1103		
	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. Bo	t Weight (Kg)	As.bly	Branch
1504	1/2	0	In	2,77		mm	,00	0,20	m	215	Pipe ASME B36.19 PL Seamless ASTM A 312 TP	304	0,26		
				·						N	/I Erection	Total I	kg: 0,26		
SZ1	PIPING	BOM SA	BIZ			VEST.	63A1A - 0			A A	AREA A 1 / 1	TOTAL F	Kg: 0,26		

TI_63.1A	Plant SZ1 PIPING BOM SABIZ	Piping Class 215	Welding specification	SP.1406/2-SP.1408/3
TET_63.1A	<b>Line</b> VEST. 63A1A - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PRO	1: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.03		DOC	: 1E35-65-1103		
	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
1504	1/2	0	In	2,77		mm	,00	0,20	m	215	Pipe ASME B36.19 P	L Seamless ASTM A 312 TP 304		0,26	
	·						_			M	Erection		Total Kg:	0,26	
SZ1	PIPING I	BOM SAE	BIZ			VEST.	63A1B - 0			A A	REA A	1/1	TOTAL Kg:	0,26	

TI_63.1B	Plant SZ1 PIPING BOM SABIZ	Piping Class 215	Welding specification	SP.1406/2-SP.1408/3
TET_63.1B	<b>Line</b> VEST. 63A1B - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		В	allestr	a						SKETCH	IES MATERIAL LIST		P	ROJ:	1E35		REV	: 0	16/11/2010
	PUMA5			16/11/20	010 10.13	3.03							D	OC:	1E35-	-65-1103	•	•	
			Ball	estra						SU	LPHUREX GH/F	Size: In	Thk: m	m	Temp:	°C	Pres: BAF		Corr: mm
37. 1	01	62		TD:1	TD2		T	04	**	D: 1	G					G P.V	****	TZ \ A . 1	
Mark	S1	S2		T1	T2		Len mm			n Pip. class	Component					Gen. Bolt	Weight (	<u>U</u> ,	oly Branch
1433	1/2	0	In	2,77		mm	,00	0,20	) m	212	Pipe ASME B36.10 PL Seamless API 51	L GR. B					C	,25	
4956	1+1/2	0	In			mm	,00	1,00	) N	R 212	Valve Bottom & Screw ST.46591/3 LUG	G 150 LB	RF (125	÷250			7	,00	
		-			_				_		AARH) Cast ASTM A 216 GR. WCB 7	Гуре А S 1	28						
469	1+1/2	0	In			mm	,00	1,00	) N	R 212	Flange Slip-On ASME B16.5 150 LB R	F (125÷25	0 AARI	I) For	ged	5193	1	,40	
<u> </u>		-									ASTM A 105							I	
5193	1/2	0	In			mm	75,00	4,00	) N	R 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM	E B18.2.1	UNC/2.	2 TAE	3. 9		C	,48	
		-			_				_		ASTM A 193 B7/ASTM A 194 GR.2H								
695	1+1/2	0	In			mm	,00	2,00	) N	R 212	Gasket TA 50.5/31 150 LB RF (125÷25)	0 AARH)	_ B5B						
698	3	0	In			mm	,00	1,00	) N	R 212	Gasket TA 50.5/31 150 LB RF (125÷25)	0 AARH)	_ B5B						
5374	1/2	0	In			mm	35,00	8,00	) N	R 212	Screws for valves ASME B 18.2.1 /UNC	C ASTM A	193 B7	,			C	,64	
1		-			-1		1			N	1 Erection					Total Kg:	(	.77	1

TOTAL Kg:

9,77

AREA A

A

SZ1

PIPING BOM SABIZ

VEST. 63A2 - 0

TI_63.2	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	SP.1406/2-SP.1407/3
TET_63.3	Line VEST. 63A2 - 0	Fluid	System	
LT_63.2	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PRC	<b>J:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.03		DOC	: 1E35-65-1103		
	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	mn	,00	0,20	m	212	Pipe ASME B36.10 PL Seamless API 5L GR	. B		0,25		
									N	M Erection		Total Kg:	0,25		
SZ1	PIPING	BOM SA	BIZ		VE	T. 63A3 - 0			A A	AREA A 1 / 1	TO	OTAL Kg:	0,25		

TI_63.3	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specificatio	n SP.1406/2-SP.1407/3
	<b>Line</b> VEST. 63A3 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

		Ba	llestra	1						SK	ETCH	IES MATERIAL LIST			P	PROJ:	1E35		REV	: 0	16/1	1/2010
	PUMA5	5		16/11/20	10 10.13.	.03									Γ	OC:	1E35-	-65-1103				
			Balle	estra							SU	LPHUREX GH/F		Size: In	Thk:	mm	Temp:	°C	Pres: BAR		Cor	rr: mm
							1_	1 .				Ta										
Mark	S1	S2		T1	T2		Len mm	ı Qt	7 U	m Pi	p. class	Component						Gen. Bolt	Weight (	Kg) As.	bly	Branch
3155	1/4	0	In			mm	,00	1,0	0 N	R 21	2	Valve Plug ST.46019/1 THRD-F	F NPT P	N 16 For	ged AS	TM A	182		0	,20		
			·	·						·		GR. F316 M 53									•	
											N	M Erection						Total Kg:	0	,2		
SZ1	PIPING E	BOM SAI	BIZ			VEST.	63F2A - 0	)		A	A A	AREA A	1 / 3	1			1	TOTAL Kg:	0	,2		

Plant SZ1 PIPING BOM SABIZ
Line VEST. 63F2A - 0
Dang. fluid type
Coating
Area AREA A
Sketch Sht 1/1

Piping Class 212
Welding specification SP.1406/2-SP.1407/3
System
De pres
Op tem
Page 1
Zones

		В	Ballestr	a					5	SKETCH	IES MATERIAL L	IST		PI	ROJ:	1E35		REV:	0 1	6/11/2010
	PUMA	.5		16/11/2	2010 10.13	3.04								D	OC:	1E35-	-65-1103			
			Ball	lestra						SU	LPHUREX GH/F		Size: In	Thk: mi	n	Temp:	°C	Pres: BAR		Corr: mm
										_							1			
Mark	S1	<b>S2</b>		T1	T2		Len mn	n Qty	Un	Pip. class	Component						Gen. Bolt	Weight (H	(g) As.bly	Branch
3155	1/4	0	In			mm	,00	1,00	NR	212	Valve Plug ST.46019/1 TI	HRD-F NPT F	N 16 Forg	ged AST	M A	182		0,	20	
	,									'	GR. F316 M 53						•			
										N	// Erection						Total Kg:	0,	2	
SZ1	PIPING	BOM SA	ABIZ			VEST.	63F2B - 0	)		A A	AREA A	1 /	1			T	TOTAL Kg:	0,	2	

Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	on SP.1406/2-SP.1407/3
<b>Line</b> VEST. 63F2B - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.04		DOC:	1E35-65-1103		
	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.	oly Branch
1433	1/2	0	In	2,77		mm	,00	0,20	m	212	Pipe ASME B36.10 PI	L Seamless API 5L GR. B		0,25	
	·						_			M	Erection		Total Kg:	0,25	
SZ1	PIPING I	BOM SAE	BIZ			VEST.	63V1 - 0			A A	REA A	1/1	TOTAL Kg:	0,25	

TI_63.4	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specificatio	n SP.1406/2-SP.1407/3
LSH_63.1	<b>Line</b> VEST. 63V1 - 0	Fluid	System	
LSL_63.1	Dang. fluid type	Coating	De pres	Op tem
TET_63.2	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.04		DOC:	1E35-65-1103		
Ballestra		SULPHUREX GH/F	Size: In Thk: mm	Temp: °C	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Le	en mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bly	Branch
1504	1/2	0	In	2,77		mm	,00	0,20	m	215	Pipe ASME B36.19 P	L Seamless ASTM A 312 TP 304		0,26	
										N	A Erection		Total Kg:	0,26	
SZ1	PIPING	BOM SA	BIZ		7	/EST. 63V	<i>V</i> 2 - 0			A A	AREA A	1/1	TOTAL Kg:	0,26	

LG_63.1	Plant SZ1 PIPING BOM SABIZ	Piping Class 215	Welding specification	n SP.1406/2-SP.1408/3
	<b>Line</b> VEST. 63V2 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.04		DOC:	1E35-65-1103		
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
1520	1/2	0	In	2,77		mm	,00	0,20	m 216	Pipe ASME B36.1	9 PL Seamless ASTM A 312 TP 316		0,26	
									N	1 Erection		Total Kg:	0,26	
SZ1	PIPING E	BOM SAE	BIZ			VEST.	63WG1 - 0		A A	REA A	1/1	OTAL Kg:	0,26	

TI_63.1	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification SP.1406/2-SP.1408/3				
63Y20	<b>Line</b> VEST. 63WG1 - 0	Fluid	System				
	Dang. fluid type	Coating	De pres	Op tem			
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
	Zones						

Balle	estra	SKETCHES MATERIAL LIST	PROJ	: 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.04		DOC:	1E35-65-1103		
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	s.bly	Branch
1520	1/2	0	In	2,77	mm	,00	0,20	m	216	Pipe ASME B36.19	PL Seamless ASTM A 312 TP 316		0,26		
									N	1 Erection		Total Kg:	0,26		
SZ1	PIPING	BOM SAE	BIZ		VES	Γ. 63WG2 - 0			A A	AREA A	1/1 <b>T</b>	OTAL Kg:	0,26		

TI_63.2	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification SP.1406/2-SP.1408/3				
63Y19	Line VEST. 63WG2 - 0	Fluid	System				
	Dang. fluid type	Coating	De pres	Op tem			
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
	Zones						

		F	Ballestr	a					SKETCH	IES MATERIAL LIST	PR	<b>OJ:</b> 1E3:	5	<b>REV:</b> 0 10	6/11/2010
	PUMA	15		16/11/20	010 10.13	3.05					DO	C: 1E3:	5-65-1103		
			Balle	estra					SU	LPHUREX GH/F	Size: In Thk: mm	Tem	p: °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	0,20	m 212	Pipe ASME B36.10 PL Seamless API 5	L GR. B			0,25	
1438	2	0	In	3,91		mm	,00	1,00	m 212	Pipe ASME B36.10 PL Seamless API 5	L GR. B			5,44	
2843	2	0	In			mm	,00	1,00	NR 212	Valve Ball Full Port ST.46590/3 LUG 1 Forged ASTM A 105 S 127	150 LB RF (125÷250	AARH)	5376	10,50	
470	2	0	In			mm	,00	1,00	NR 212	Flange Slip-On ASME B16.5 150 LB R ASTM A 105	RF (125÷250 AARH)	Forged	5199	2,20	
327	2	0	In	3,91		mm	,00	1,00	NR 212	90° Elbow Long Radius ASME B16.9 I GR. WPB	BE Wrought S ASTM	I A 234		0,66	
5199	5/8	0	In			mm	85,00	4,00	NR 212	Stud Bolt + 2 Nuts TA 50.48B/28 ASM ASTM A 193 B7/ASTM A 194 GR.2H		ГАВ. 9		0,84	
696	2	0	In			mm	,00	2,00	NR 212	Gasket TA 50.5/31 150 LB RF (125÷25	50 AARH) _ B5B				
5376	5/8	0	In			mm	40,00	16,00	NR 212	Screws for valves ASME B 18.2.1 /UN	C ASTM A 193 B7			2,40	
	•	*	•	*	•	*			N	M Erection			Total Kg:	22,3	
SZ1	PIPING	BOM S.	ABIZ			VEST.	64V10 - 0		A A	AREA A 1	/ 1		TOTAL Kg:	22,3	

TI_64.15	Plant SZ1 PIPING BOM SABIZ	Piping Class 212	Welding specification	SP.1406/2-SP.1407/3
LSH_64.10	Line VEST. 64V10 - 0	Fluid	System	
LSL_64.10	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST		PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.13.05			DOC:	1E35-65-1103			_
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
1520	1/2	0	In	2,77	mm	,00	0,20	m	216	Pipe ASME B36.19 PL Seamless ASTM A 312 TP 316		0,26	
									N	1 Erection	Total Kg:	0,26	
SZ1	PIPING	BOM SAB	SIZ		VES	T. 65V4 - 0			A A	AREA A 1 / 1	TOTAL Kg:	0,26	

LSL_65.4	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification SP.1406/2-SP.1408/3			
	<b>Line</b> VEST. 65V4 - 0	Fluid	System			
	Dang. fluid type	Coating	De pres	Op tem		
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1		
	Zones					

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.05		DOC:	1E35-65-1103		
	Ballestra	SULPHUREX GH/F	Size: In Thk: mm	Temp: °C I	Pres: BAR	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As	bly Bran	ch
1520	1/2	0	In	2,77	mm	,00	0,20	m	216	Pipe ASME B36.19 F	PL Seamless ASTM A 312 TP 316		0,26		
									N	1 Erection		Total Kg:	0,26		
SZ1	PIPING	BOM SAE	BIZ		VEST	. 65V5 - 0			A A	AREA A	1/1	TOTAL Kg:	0,26		

LG_65.5	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification	n SP.1406/2-SP.1408/3
	<b>Line</b> VEST. 65V5 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>J:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.05		DOC	: 1E35-65-1103		
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
1520	1/2	0	In	2,77		mm	,00	0,20	m	216	Pipe ASME B36.19 P	L Seamless ASTM A 312 TP 316		0,26	
										N	1 Erection		Total Kg:	0,26	
SZ1	PIPING	BOM SA	BIZ			VEST.	65V8A - 0			A A	AREA A	1/1	TOTAL Kg:	0,26	

LG_65.8A	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specificatio	n SP.1406/2-SP.1408/3	
	<b>Line</b> VEST. 65V8A - 0	Fluid	System		
	Dang. fluid type	Coating	De pres	Op tem	
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1	
	Zones				

Balle	estra	SKETCHES MATERIAL LIST	PRO	<b>J:</b> 1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.05		DOC	: 1E35-65-1103		
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
1520	1/2	0	In	2,77		mm	,00	0,20	m 216	Pipe ASME B36.19	PL Seamless ASTM A 312 TP 316		0,26	
									N	1 Erection		Total Kg:	0,26	
SZ1	PIPING E	BOM SAE	BIZ			VEST.	65V8B - 0		A A	REA A	1/1	OTAL Kg:	0,26	

LG_65.8B	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification SP.1406/2-SP.1408/3			
	Line VEST. 65V8B - 0	Fluid	System			
	Dang. fluid type	Coating	De pres	Op tem		
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1		
	Zones					

Balle	estra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.13.06		DOC:	1E35-65-1103		
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	s.bly	Branch
1520	1/2	0	In	2,77	mm	,00	0,20	m	216	Pipe ASME B36.19 I	PL Seamless ASTM A 312 TP 316		0,26		
									N	1 Erection		Total Kg:	0,26		
SZ1	PIPING	BOM SAE	BIZ		VEST	65V8C - 0			A A	AREA A	1/1	TOTAL Kg:	0,26		

LG_65.8C	Plant SZ1 PIPING BOM SABIZ	Piping Class 216	Welding specification SP.1406/2-SP.1408/3		
	Line VEST. 65V8C - 0	Fluid	System		
	Dang. fluid type	Coating	De pres	Op tem	
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1	
	Zones				