	I	DESMI	ET - Ba	llestra					SI	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA:	5		16/11/20	010 10.00	).16							DOC:	1E35.0	65.1102		
		D	ESMET -	- Ballestra	a						SABIZ	Size: mm Thl	ζ: mm	Temp:	°C	Pres: Bar(g)	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um ]	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bl	y Branch
547	150	0	mm	3,96		mm	,00	48,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				770,32	
221	150	0	mm			mm	,00	27,00	NR :	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	5÷250AA	RH)	1623	82,62	
1463	150	0	mm	3,96		mm	,00	2,00	NR	129	Elbow a=10° SB-ATI-PC005/0 BW Sear R=2000mm	mless API 5L 0	Gr.B			4,36	
1517	150	0	mm	3,96		mm	,00	3,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sear R=2000mm	mless API 5L 0	Gr.B	-		6,53	
1623	M12	0	mm			mm	40,00	112,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A/ UNI 3740 + 4A UNI 3740	0 - UNI 5727 -	+ UNI 559	92 4.6		8,96	
305	150	0	mm			mm	,00	14,00	NR :	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	02(125÷250A	ARH) _ B	18C			
	1			-	1					N	/ Erection				Total Kg:	872,79	
SZ2	PIPING I	ВОМ				61007	- 0			A A	AREA A 1 /	1		T	OTAL Kg:	872,79	

Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
Line 61007 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

	]	DESM	ET - Ba	allestra					S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/20	010 10.00	0.16	1						DOC:	1E35.65	5.1102	•		
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thl	<b>∢:</b> mm	Temp: °C	2	Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			G	en. Bolt	Weight (Kg)	As.bly	Branch
547	150	0	mm	3,96		mm	,00	42,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				674,03		
221	150	0	mm			mm	,00,	23,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	5÷250AAl	RH) 16	523	70,38		
1517	150	0	mm	3,96		mm	,00	5,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea R=2000mm	mless API 5L 0	Gr.B			10,89		
1623	M12	0	mm			mm	40,00	96,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	+ UNI 559	92 4.6		7,68		
305	150	0	mm			mm	,00	12,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250A	ARH) _ B	318C				
	, 	<u>'</u>	<u>'</u>			'	"	•			M Erection			ŗ	Total Kg:	762,98		,
SZ2	PIPING	BOM				61008	- 0			A	AREA A 1/	1		TO	TAL Kg:	762,98		

 Plant SZ2 PIPING BOM
 Piping Class 129
 Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0

 Line 61008 - 0
 Fluid
 System

 Dang, fluid type
 Coating
 De pres
 Op tem

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

 Zones

	]	DESM	ET - Ba	allestra					S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/20	010 10.00	0.17							DOC:	1E35.65	.1102			
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk	: mm	<b>Temp:</b> °C		Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Ge	en. Bolt	Weight (Kg)	As.bly	Branch
547	150	0	mm	3,96		mm	,00	41,50	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				666,01		
221	150	0	mm			mm	,00	19,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	÷250AAI	RH) 16	523	58,14		
1517	150	0	mm	3,96		mm	,00	4,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea R=2000mm	mless API 5L C	ðr.B			8,71		
1623	M12	0	mm			mm	40,00	80,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	0 - UNI 5727 +	+ UNI 559	92 4.6		6,40		
305	150	0	mm			mm	,00	10,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	02(125÷250AA	ARH) _ B	18C				
				'	<u>'</u>	' 				l l	M Erection			1	Total Kg:	739,26		
SZ2	PIPING	BOM				61009	- 0			A A	AREA A 1 /	1		TO	TAL Kg:	739,26		

	]	DESMI	ET - Ba	allestra					S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/20	010 10.00	).17	1						DOC:	1E35.65	5.1102	•		
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thl	K: mm	Temp: °C	}	Pres: Bar(g)	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			G	en. Bolt	Weight (Kg)	As.bly	Branch
547	150	0	mm	3,96		mm	,00	33,50	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				537,62	<u> </u>	
221	150	0	mm			mm	,00	29,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	5÷250AAI	RH) 16	523	88,74		
1517	150	0	mm	3,96		mm	,00	5,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea R=2000mm	mless API 5L 0	Gr.B			10,89		
1623	M12	0	mm			mm	40,00	120,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	+ UNI 559	92 4.6		9,60		
305	150	0	mm			mm	,00	15,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250A	ARH) _ B	18C				
	, 	<u>'</u>	1		' 	'				l l	M Erection			1	Total Kg:	646,85		
SZ2	PIPING	ВОМ				61010	- 0			A A	AREA A 1/	1		ТО	TAL Kg:	646.85		

Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	on SB-ATI-SP006/0 SB-ATI- SP007/0
Line 61010 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

	]	DESMI	ET - Ba	llestra					S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/20	010 10.00	).17	1						DOC:	1E35.65	.1102	•		
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thl	K: mm	Temp: °C		Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Ge	en. Bolt	Weight (Kg)	As.bly	Branch
547	150	0	mm	3,96		mm	,00	43,50	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				698,11		
221	150	0	mm			mm	,00	27,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	5÷250AAI	RH) 16	23	82,62		
1517	150	0	mm	3,96		mm	,00	7,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea R=2000mm	mless API 5L 0	Gr.B			15,25		
1623	M12	0	mm			mm	40,00	112,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	+ UNI 559	92 4.6		8,96		
305	150	0	mm			mm	,00	14,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	02(125÷250A	ARH) _ B	18C				
	, 	'				<u>'</u>		•		l	M Erection			Т	Total Kg:	804,93		
SZ2	PIPING	BOM				61014	- 0			A A	AREA A 1/	1		TO	TAL Kg:	804.93		

 Plant SZ2 PIPING BOM
 Piping Class 129
 Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0

 Line 61014 - 0
 Fluid
 System

 Dang, fluid type
 Coating
 De pres
 Op tem

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

 Zones

	]	DESMI	ET - Ba	llestra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 10	5/11/2010
	PUMA	5		16/11/20	010 10.0	0.17							DOC:	1E35	.65.1102		
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk	: mm	Temp	:°C	Pres: Bar(g)	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg) As.bly	Branch
545	100	0	mm	3,18		mm	,00	11,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				95,85	
546	125	0	mm	3,96		mm	,00	36,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				482,82	
219	100	0	mm			mm	,00	4,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A	ATI-PF002(125	÷250AAI	RH)	1615	7,60	
											Forged Fe 360 B - UNI 7070						
220	125	0	mm			mm	,00	25,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	÷250AAI	RH)	1616	73,25	
641	125	100	mm	3,96	3,18	mm	,00	1,00	NR	129	Reducer Concentric ASME B16.9 BE E.	.R.W. ASTM A	234 Gr.	WPB		1,74	
1516	125	0	mm	3,96		mm	,00	7,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea	ımless API 5L C	Gr.B			12,75	
											R=2000mm						
1615	M10	0	mm			mm	35,00	8,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A	/0 - UNI 5727 +	- UNI 559	92 4.6		0,32	
		1								T	UNI 3740 + 4A UNI 3740						
1616	M10	0	mm			mm	40,00	104,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 +	- UNI 559	92 4.6		5,20	
303	100	0	mm			mm	,00	2,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250AA	ARH) _ B	18C			
304	125	0	mm			mm	,00	13,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250AA	ARH) _ B	18C			

M Erection

AREA A

PIPING BOM

61018 - 0

Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
Line 61018 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

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Total Kg:

TOTAL Kg:

679,54

679,54

	]	DESMI	ET - Ba	allestra					S	KETCE	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/20	010 10.00	).17							DOC:	1E35.65	5.1102	•	•	
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk	: mm	Temp: °C		Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			G	en. Bolt	Weight (Kg)	As.bly	Branch
547	150	0	mm	3,96		mm	,00	41,50	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				666,01		
221	150	0	mm			mm	,00	15,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	÷250AAI	RH) 16	623	45,90		
1517	150	0	mm	3,96		mm	,00	2,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea R=2000mm	mless API 5L C	er.B			4,36		
1623	M12	0	mm			mm	40,00	64,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 +	- UNI 559	92 4.6		5,12		
305	150	0	mm			mm	,00	8,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	02(125÷250AA	ARH) _ B	18C				
			'		•			•		N	M Erection			ŗ	Total Kg:	721,38		
SZ2	PIPING	ВОМ				61033	- 0			A A	AREA A 1 /	1		ТО	TAL Kg:	721,38		

Plant SZ2 PIPING BOM	Piping Class 129	Welding specificatio	on SB-ATI-SP006/0 SB-ATI- SP007/0
<b>Line</b> 61033 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

	]	DESM	ET - Ba	allestra					S	KETCH	IES MATERIAL LIST	P	ROJ:	1E35	<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/20	010 10.00	).18						Γ	OC: 1	IE35.65.1102	•	•	
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk:	nm ′	Гетр: °С	Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	As.bly	Branch
547	150	0	mm	3,96		mm	,00	43,50	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B			698,11		
221	150	0	mm			mm	,00	23,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-ATI-P	ATI-PF002(125÷	250AAR	H) 1623	70,38		
1463	150	0	mm	3,96		mm	,00	2,00	NR	129	Elbow a=10° SB-ATI-PC005/0 BW Sea	mless API 5L Gr	.B		4,36		
1517	150	0	mm	3,96		mm	,00	3,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea R=2000mm	mless API 5L Gr	.B		6,53		
1623	M12	0	mm			mm	40,00	96,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 + U	JNI 5592	2 4.6	7,68		
305	150	0	mm			mm	,00	12,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250AAF	RH) _ B1	8C			
	'		,							N	M Erection			Total Kg	787,06		
SZ2	PIPING	ВОМ				61034	- 0			A A	AREA A 1 /	′ 1		TOTAL Kg	787,06		

Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	on SB-ATI-SP006/0 SB-ATI- SP007/0
Line 61034 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.18		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
545	100	0	mm	3,18	mm	,00	11,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L Gr.B		95,85	
546	125	0	mm	3,96	mm	,00	41,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L Gr.B		549,88	
219	100	0	mm		mm	,00	4,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-ATI-PF002(125÷250AARH) Forged Fe 360 B - UNI 7070	1615	7,60	
220	125	0	mm		mm	,00	25,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-ATI-PF002(125÷250AARH) Forged Fe 360 B - UNI 7070	1616	73,25	
641	125	100	mm	3,96	3,18 mm	,00	1,00	NR	129	Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 Gr. WPB		1,74	
1443	125	0	mm	3,96	mm	,00	1,00	NR	129	Elbow a=5° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=1500mm		1,82	
1462	125	0	mm	3,96	mm	,00	2,00	NR	129	Elbow a=10° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=2000mm		3,64	
1516	125	0	mm	3,96	mm	,00	2,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=2000mm		3,64	
1525	125	0	mm	3,96	mm	,00	1,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=1500mm		1,82	
1615	M10	0	mm		mm	35,00	8,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,32	
1616	M10	0	mm		mm	40,00	104,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		5,20	
303	100	0	mm		mm	,00	2,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF002(125÷250AARH) _ B18C			
304	125	0	mm		mm	,00	13,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF002(125÷250AARH) _ B18C			
	'	<u>'</u>	'						]	M Erection	Total Kg:	744,78	1
SZ2	PIPING	BOM			61035	- 0			A	AREA A 1/1	TOTAL Kg:	744,78	

	Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	on SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 61035 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

	I	DESMI	ET - Ba	llestra					S	KETCH	IES MATERIAL LIST	PROJ	1E35	5	<b>REV:</b> 0	16	/11/2010
	PUMA:	5		16/11/20	10 10.00	).18	1					DOC:	1E35	5.65.1102	•		
		D	ESMET	- Ballestra	ı						SABIZ	Size: mm Thk: mm	Temp	); °C	Pres: Bar(g)	C	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	As.bly	Branch
545	100	0	mm	3,18		mm	,00	11,00			Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B			95,85		
546	125	0	mm	3,96		mm	,00	41,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B			549,88		
219	100	0	mm			mm	,00	4,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-	ATI-PF002(125÷250AA	RH)	1615	7,60		
										l	Forged Fe 360 B - UNI 7070	,			·		
220	125	0	mm			mm	,00	23,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-	ATI-PF002(125÷250AA	RH)	1616	67,39		
				_			_				Forged Fe 360 B - UNI 7070						
641	125	100	mm	3,96	3,18	mm	,00	1,00	NR	129	Reducer Concentric ASME B16.9 BE E	.R.W. ASTM A 234 Gr.	WPB		1,74		
1434	125	0	mm	3,96		mm	,00	1,00	NR	129	Elbow a=5° SB-ATI-PC005/0 BW Sear	nless API 5L Gr.B R=20	000mm		1,82		
1516	125	0	mm	3,96		mm	,00	3,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea	mless API 5L Gr.B			5,46		
	,		,			'	_			'	R=2000mm			1			
1615	M10	0	mm			mm	35,00	8,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A	/0 - UNI 5727 + UNI 55	92 4.6		0,32		
											UNI 3740 + 4A UNI 3740						
1616	M10	0	mm			mm	40,00	96,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A	/0 - UNI 5727 + UNI 55	92 4.6		4,80		
											UNI 3740 + 4A UNI 3740						
303	100	0	mm			mm	,00	2,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250AARH) _ I	318C				
304	125	0	mm			mm	,00	12,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250AARH) _ I	318C				
										N	// Erection			Total Kg:	734,87		

A

AREA A

SZ2

PIPING BOM

61036 - 0

Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
<b>Line</b> 61036 - 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

734,87

TOTAL Kg:

	PUMA		ET - Ba	allestra 16/11/20	10 10 00	10		SKETCHES MATERIAL LIST  PROJ:  1E  DOC:  1E						<b>REV:</b> 0	16/	11/2010	
	PUMA	.5		10/11/20	10 10.00	.10							DOC:	1E35.05.1102			
		D	ESMET	- Ballestra	Į						SABIZ	Size: mm Thk	K: mm	Temp: °C	Pres: Bar(g)	Co	orr: mm
Mark	S1	S2		T1	T2		Len mm	ı Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg) A	s.bly	Branch
545	100	0	mm	3,18		mm	,00	11,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B			95,85		
546	125	0	mm	3,96		mm	,00	40,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B			536,47		
219	100	0	mm			mm	,00	4,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A	ATI-PF002(125	5÷250AA	RH) 1615	7,60		
		·		,							Forged Fe 360 B - UNI 7070						
220	125	0	mm			mm	,00	25,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A	ATI-PF002(125	5÷250AA	RH) 1616	73,25		
											Forged Fe 360 B - UNI 7070						

R=2000mm

R=2000mm

R=1500mm

M Erection

AREA A

UNI 3740 + 4A UNI 3740

UNI 3740 + 4A UNI 3740

Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 Gr. WPB

Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6

Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6

Gasket SB-ATI-PV009/1 \* SB-ATI-PF002(125÷250AARH) \_ B18C

Gasket SB-ATI-PV009/1 \* SB-ATI-PF002(125÷250AARH) \_ B18C

1/1

Elbow a=10° SB-ATI-PC005/0 BW Seamless API 5L Gr.B

Elbow a=45° SB-ATI-PC005/0 BW Seamless API 5L Gr.B

Elbow a=45° SB-ATI-PC005/0 BW Seamless API 5L Gr.B

,00

,00

,00

,00

35,00

40,00

,00

,00

1,00 NR 129

2,00 NR 129

2,00 NR 129

2,00 NR 129

8,00 NR 129

104,00 NR 129

2,00 NR 129

13,00 NR 129

Α

641

1462

1516

1525

1615

1616

303

304

SZ2

125

125

125

125

M10

M10

100

125

PIPING BOM

100

0

0

0

0

0

0

0

mm

mm

mm

mm

mm

mm

mm

3,96

3,96

3,96

3,96

3,18

mm

mm

mm

mm

mm

mm

mm

mm

61037 - 0

1				
	Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	on SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 61037 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

1,74

3,64

3,64

3.64

0,32

5,20

731,36

731,36

Total Kg:

TOTAL Kg:

	D	ESME	ET - Ba	llestra					S	KETCH	IES MATERIAL LIST	]	PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA5	í		16/11/2	2010 10.00	0.18						j	DOC:	1E35.6	65.1102			
		DI	ESMET -	Ballestr	ra						SABIZ	Size: mm Thk:	mm	Temp:	°C	Pres: Bar(g)	C	orr: mm
										-	_							
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
545	100	0	mm	3,18		mm	,00	11,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				95,85		
546	125	0	mm	3,96		mm	,00	41,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				549,88		
219	100	0	mm			mm	,00	4,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A	ATI-PF002(125	-250AAl	RH)	1615	7,60		
	,	,		'							Forged Fe 360 B - UNI 7070				•	,		
220	125	0	mm			mm	,00	27,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A	ATI-PF002(125	-250AAl	RH)	1616	79,11		
							`	-	_		Forged Fe 360 B - UNI 7070							
641	125	100	mm	3,96	3,18	mm	,00	1,00	NR	129	Reducer Concentric ASME B16.9 BE E.	.R.W. ASTM A	234 Gr.	WPB		1,74		
1462	125	0	mm	3,96		mm	,00	2,00	NR	129	Elbow a=10° SB-ATI-PC005/0 BW Sea	ımless API 5L G	r.B			3,64		
											R=2000mm							
1516	125	0	mm	3,96		mm	,00	2,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea	ımless API 5L Gı	r.B			3,64		
	·			·		,					R=2000mm							
1525	125	0	mm	3,96		mm	,00	2,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea	ımless API 5L Gı	r.B			3,64		
											R=1500mm							
1615	M10	0	mm			mm	35,00	8,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A	/0 - UNI 5727 +	UNI 559	92 4.6		0,32		

UNI 3740 + 4A UNI 3740

UNI 3740 + 4A UNI 3740

M Erection

AREA A

Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6

Gasket SB-ATI-PV009/1 \* SB-ATI-PF002(125÷250AARH) \_ B18C

Gasket SB-ATI-PV009/1 \* SB-ATI-PF002(125÷250AARH) \_ B18C

1/1

40,00

,00

,00

mm

mm

mm

61038 - 0

112,00 NR 129

2,00 NR 129

14,00 NR 129

A

1616

303

304

SZ2

M10

100

125

PIPING BOM

0

0

0

mm

mm

mm

	Plant SZ2 PIPING BOM	Piping Class 129	Welding specifica	tion SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 61038 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

5,60

751,04

751,04

Total Kg:

TOTAL Kg:

	I	DESMET	- Bal	llestra					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA:	5		16/11/20	10 10.00.	.19							DOC:	1E35.65	5.1102		
		DES	MET -	Ballestra							SABIZ	Size: mm Thk	: mm	Temp: °C		Pres: Bar(g)	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Otv	Um	Pip. class	Component			G	en. Bolt	Weight (Kg) As.b	ly Branch

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
600	200	0	mm	3,0	mm	,00	2,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		31,97		
1326	200	0	mm	3,0	mm	,00	1,00	NR	124	45° Miter SB-ATI-PC003/0 BE Welded Fe 360 B - UNI 7070 R=1.5 D		4,08		
	·								l	M Erection	Total Kg:	36,05		
SZ2	PIPING 1	ВОМ			62005	- 0			A A	AREA A 1/1	TOTAL Kg:	36,05		

62Y12	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62005 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

	I	DESMET	- Bal	llestra					S	KETCH	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA:	5		16/11/20	10 10.00.	.19							DOC:	1E35.65	5.1102		
		DES	MET -	Ballestra							SABIZ	Size: mm Thk	: mm	Temp: °C		Pres: Bar(g)	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Otv	Um	Pip. class	Component			G	en. Bolt	Weight (Kg) As.b	ly Branch

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
600	200	0	mm	3,0	mm	,00	3,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		47,96		
1326	200	0	mm	3,0	mm	,00	2,00	NR	124	45° Miter SB-ATI-PC003/0 BE Welded Fe 360 B - UNI 7070 R=1.5 D		8,16		
									1	M Erection	Total Kg:	56,12		
SZ2	PIPING I	ВОМ			62006	- 0			A	AREA A 1/1	TOTAL Kg:	56,12		

62Y13	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62006 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

	]	DESME	T - Ba	llestra					S	KETCH	IES MATERIAL LIST	]	PROJ:	1E35	<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/20	10 10.00	.19						1	DOC:	1E35.65.1102			
		DI	ESMET	- Ballestra	1						SABIZ	Size: mm Thk:	mm	Temp: °C	Pres: Bar(g)	C	Corr: mm
Mark	S1	S2		T1	T2		Len mn	n Otv	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	Ac hlv	Branch
568	150	0	mm	3,96	12	mm	,00			124	Pipe ASME B36.10 PL E.R.W. API 5L	Gr.B		Gen. Doit	48,15	Asibiy	Dranch
27	150	0	mm	3,96		mm	,00	1,00	NR	124	45° Elbow Long Radius ASME B16.9 B	E E.R.W. ASTM	1 A 234	Gr.	2,85		
											WPB						
										I	M Erection			Total Kg:	51,		

1 / 1

TOTAL Kg:

51,

AREA A

Α

SZ2

PIPING BOM

62007 - 0

62Y14	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	on SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62007 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

	1	DESME	Γ - Ba	llestra					9	SKET	CH	ES MATERIAL LIST		PROJ	1E.	35	<b>REV:</b>	0 1	6/11/2010
	PUMA:	5		16/11/20	10 10.00.	20								DOC	1E.	35.65.1102			
		DES	SMET -	Ballestra	ı							SABIZ	Size: mm	Thk: mm	Ten	np: °C	Pres: Bar(g)		Corr: mm
Mark	S1	S2		T1	T2		Len mn	ı Qty	Un	n Pip. cla	ass	Component				Gen. Bolt	Weight (Kg	g) As.bly	Branch
600	200	0	mm	3,0		mm	,00	5,00	m	124		Pipe SB-ATI-PT002/0 PL Welded Fe 3	60 B - UNI 7	7070			79,9	1	
1213	200	0	mm	3,0		mm	,00	1,00	NF	R 124		90° Miter SB-ATI-PC003/0 BE Welded	Fe 360 B -	UNI 7070	R=1.5	D	7,50	)	
1326	200	0	mm	3,0		mm	,00	4,00	NF	R 124		45° Miter SB-ATI-PC003/0 BE Welded	Fe 360 B -	UNI 7070	R=1.5	D	16,32	2	
				•							M	Erection				Total Kg:	103,7	6	

1 / 1

TOTAL Kg:

103,76

A

AREA A

PIPING BOM

62008 - 0

62Y15	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0				
	<b>Line</b> 62008 - 0	Fluid	System				
	Dang. fluid type	Coating	De pres	Op tem			
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
'	Zones						

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.20		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.l	ly Branch
600	200	0	mm	3,0	m	n ,00	3,00	m	124	Pipe SB-ATI-PT002/0 PL Welded	Fe 360 B - UNI 7070		47,96	
			•						N	1 Erection		Total Kg:	47,96	
SZ2	PIPING I	ВОМ			62	009 - 0			A A	AREA A	1/1	TOTAL Kg:	47,96	

62Y16	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62009 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.20		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	<b>Temp:</b> °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bly	Branch
602	300	0	mm	3,0		mm	,00	2,00	m	124	Pipe SB-ATI-PT002/0 PL V	Velded Fe 360 B - UNI 7070		47,47	
		M Erection									Total Kg:	47,47			
SZ2	PIPING B	OM			(	52010 -	0			A A	REA A	1 / 1	TOTAL Kg:	47,47	

62Y1	Plant SZ2 PIPING BOM	Piping Class 124	Welding specificati	on SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62010 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
II	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.20		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) A	s.bly	Branch
602	300	0	mm	3,0		mm	,00	1,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe	e 360 B - UNI 7070		35,60		
		M Erection										Total Kg:	35,6			
SZ2	PIPING B	OM			(	52011 -	0			A A	REA A	1/1	TOTAL Kg:	35,6		

62Y2	Plant SZ2 PIPING BOM	Piping Class 124	Welding specificati	ion SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62011 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
ı	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.21		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
602	300	0	mm	3,0		mm	,00	1,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		35,60	
		•								N	M Erection	Total Kg:	35,6	
SZ2	PIPING I	ВОМ			(	52012 - 0	0			A A	AREA A 1/1	TOTAL Kg:	35,6	

62Y3	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62012 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.21		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
600	200	0	mm	3,0	mm	,00	2,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		31,97	
	·								N	A Erection	Total Kg:	31,97	
SZ2	PIPING I	BOM			62013	- 0			A A	AREA A 1/1	TOTAL Kg:	31,97	

62Y4	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62013 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

		DESM	allestra				SKETCHES MATERIAL LIST PROJ: 1E3								<b>REV:</b> 0	16	5/11/2010	
	PUMA	15		16/11/2	010 10.00	0.21							DOC:	1E35.	65.1102	•	•	
		D	ESMET	- Ballestr	a						SABIZ	Size: mm Th	k: mm	Temp:	°C	Pres: Bar(g)	(	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
565	80	0	mm	3,18		mm	,00	25,00		124	Pipe ASME B36.10 PL E.R.W. API 5L	Gr.B				168,05		
1170	80	0	mm			mm	,00,	1,00	NR	124	Valve Butterfly SB-ATI-VB004/0 FLG				1609			
	·				·				_		PF001(125÷250AARH) Forged or cast A WCB B 60	ASTM A 105 o	or ASTM	A 216				
171	80	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-P	ATI-PF001(12	5÷250AA	RH)	1609			
24	80	0	mm	3,18		mm	,00	1,00	NR	124	45° Elbow Long Radius ASME B16.9 E	BE E.R.W. AST	TM A 234	Gr.		0,60		
58	80	0	mm	3,18		mm	,00	3,00	NR	124	90° Elbow Long Radius ASME B16.9 E	BE E.R.W. AST	TM A 234	Gr.		3,53		
1609	M8	0	mm			mm	30,00	8,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727	+ UNI 55	92 4.6		0,16		
274	80	0	mm			mm	,00	2,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	001(125÷250A	ARH) _ <i>A</i>	19C				
										N	M Erection				Total Kg:	172,35		
SZ2	PIPING	BOM				62028	- 0			Α Δ	AREA A 1	/ 1		Т	OTAL Kg:	172.35		

Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
Line 62028 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.21		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Component		Weight (Kg) As.l	ly Branch
600	200	0	mm	3,0		mm	,00	2,00	m	124	Pipe SB-ATI-PT002/0	PL Welded Fe 360 B - UNI 7070		31,97	
										M	Erection		Total Kg:	31,97	
SZ2	PIPING E	BOM			(	62030 -	0		A AREA A 1/1			1/1	TOTAL Kg:	31,97	

62Y5	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0				
	<b>Line</b> 62030 - 0	Fluid	System				
	Dang. fluid type	Coating	De pres	Op tem			
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
ı	Zones						

DESMET - Ballestra		SKETCHES MATERIAL LIST	PROJ:	1E35	REV:	0	16/11/2010
PUMA5 16/11/2010 1	.00.22		DOC:	1E35.65.1102			
DESMET - Ballestra		SABIZ	Size: mm Thk: mm	Temp: °C P	res: Bar(g)		Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um Pip. class	Component	Component		Weight (Kg) As.bly	Branch
568	150	0	mm	3,96		mm	,00	1,50	m 124	Pipe ASME B36.1	0 PL E.R.W. API 5L Gr.B		24,07	
	M Erection									Total Kg:	24,07			
SZ2	PIPING BOM 62031 - 0 A			A A	REA A	1 / 1	TOTAL Kg:	24,07						

62Y6	Plant SZ2 PIPING BOM	Piping Class 124	Welding specificati	on SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62031 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
!	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.22		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um Pip. class	Component	Component		Weight (Kg) As.bly	Branch
568	150	0	mm	3,96		mm	,00	1,50	m 124	Pipe ASME B36.10	) PL E.R.W. API 5L Gr.B		24,07	
	M Erection									Total Kg:	24,07			
SZ2	PIPING BOM 62034 - 0 A			A A	REA A	1/1	TOTAL Kg:	24,07						

62Y6A	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 62034 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

	I	DESME	T - Ba	llestra	ı			SKETCHES MATERIAL LIST PROJ: 1E35						1E35		<b>REV:</b>	) 10	5/11/2010
	PUMA:	5		16/11/2	2010 10.0	0.22							DOC:	1E35.65	5.1102			
		DI	ESMET	- Ballest	ra						SABIZ	Size: mm Thl	k: mm	Temp: °C	C	Pres: Bar(g)		Corr: mm
										,								
Mark	S1	S2		T1	T2		Len mm	ı Qty	Um	Pip. class	Component			G	Gen. Bolt	Weight (Kg	) As.bly	Branch
602	300	0	mm	3,0		mm	,00	5,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 3	60 B - UNI 707	0			130,53		
975	300	200	mm	3,0	3,0	mm	,00	1,00	NR	124	Reducer Eccentric SB-ATI-PR005/0 BB	E Welded Fe 36	0 B - UN	7070		4,74		
		M Erection							,	Total Kg:	135,27	'						
SZ2	PIPING I	ВОМ				6204	0 - 0			A A	AREA A 1	/ 1		ТО	TAL Kg:	135,27		

Piping Class 124 Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0 Plant SZ2 PIPING BOM Line 62040 - 0 Fluid System Dang. fluid type Op tem Coating De pres Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

		DESM	ET - Ba	allestra			SKETCHES MATERIAL LIST PROJ: 1E35							<b>REV:</b> 0	16/11/2010
	PUMA	<b>\</b> 5		16/11/20	010 10.00	).23						DOC:	1E35.65.1102		
		Γ	DESMET	- Ballestra	a						SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.	bly Branch
565	80	0	mm	3,18		mm	,00	,00         6,00         m         124         Pipe ASME B36.10 PL E.R.W. API 5L Gr.B           ,00         1,00         NR         124         Valve Butterfly SB-ATI-VB004/0 FLG * SB-ATI-						40,33	
1170	80	0	mm			mm	,00	1,00	NR	124	Valve Butterfly SB-ATI-VB004/0 FLG PF001(125÷250AARH) Forged or cast WCB B 60		. 216		
171	80	0	mm			mm	,00	3,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB- From Plate Fe 360 B - UNI 7070	-ATI-PF001(125÷250AAF	RH) 1609		
58	80	0	mm	3,18		mm	,00	1,00	NR	124	90° Elbow Long Radius ASME B16.9 WPB	BE E.R.W. ASTM A 234	Gr.	1,18	
1609	M8	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	A/0 - UNI 5727 + UNI 559	2 4.6	0,24	
274	80	0	mm			mm	,00	3,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF FLAT-RING	6001(125÷250AARH) _ A	ЭС		
											M Erection		Total Kg:	41,75	
SZ2	2 PIPING BOM 62					62051	- 0			A	AREA A 1	/ 1	TOTAL Kg:	41,75	

Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
Line 62051 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

	I	DESMET	- Ballestra				S	SKI	ETCH	ES MATI	ERIAL I	LIST		PROJ:	1E35	5	REV:	0 1	6/11/2010
	PUMA:	5	16/11/2	010 10.00.2	23									DOC:	1E35	5.65.1102	•		
		DESN	MET - Ballestr	a						SABIZ			Size: mm Th	k: mm	Temp	p: °C	Pres: Bar(g)		Corr: mm
Mark	S1	S2	T1	Т2	Len mr	ı Qty	Um	ı Pip	o. class	Component						Gen. Bolt	Weight (K	g) As.bly	Branch

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.bly	Branch
558	50	0	mm	3,91	mm	,00	0,5	m	126	Pipe ASME B36.10 PL Seamless ASTM A 106 Gr. B		2,72	
561	100	0	mm	6,02	mm	,00	7,0	m	126	Pipe ASME B36.10 PL Seamless ASTM A 106 Gr. B		112,52	
563	150	0	mm	10,97	mm	,00	37,0	m	126	Pipe ASME B36.10 PL Seamless ASTM A 106 Gr. B		1.574,75	
1133	50	0	mm		mm	,00	1,0	NR	126	Valve Ball Full Port SB-ATI-VS070/0 LUG 600 LB LF (125÷250 AARH) Forged CARBON STEEL S 148	1649	15,50	
139	50	0	mm		mm	,00	2,0	NR	126	Flange Slip-On ASME B16.5 600 LB LM (125÷250 AARH) Forged ASTM A 105	1577	7,40	
142	100	0	mm		mm	,00	2,0	NR	126	Flange Slip-On ASME B16.5 600 LB LM (125÷250 AARH) Forged ASTM A 105	1581	23,60	
153	100	0	mm		mm	,00	1,0	) NR	126	Flange Slip-On ASME B16.5 600 LB LF (125÷250 AARH) Forged ASTM A 105	1581	11,80	
72	100	0	mm	6,02	mm	,00	2,0	NR	126	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 Gr. WPB		7,83	
74	150	0	mm	10,97	mm	,00	8,0	) NR	126	90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 Gr. WPB		125,50	
690	150	100	mm	10,97	6,02 mm	,00	3,0	) NR	126	Reducer Concentric ASME B16.9 BE Wrought S ASTM A 234 Gr. WPB		18,10	
1933	150	100	mm	10,97	6,02 mm	,00	1,0	NR	126	Reducer Eccentric ASME B16.9 BE Wrought S ASTM A 234 Gr. WPB		6,03	
398	15	0	mm		mm	,00	2,0	NR	126	Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105		0,24	
1581	7/8	0	mm		mm	145,00	24,0	NR	126	Stud Bolt + 2 Nuts SB-ATI-PV008B/0 ASME B18.2.1 UNC/2.2 Tab.9 ASTM A 193 B7 / A 194 Gr.2H		15,84	
246	50	0	mm		mm	.00	2,0	) NR	126	Gasket SB-ATI-PV009/1 600 LB _ B4C			
249	100	0	mm		mm	.00		) NR	-	Gasket SB-ATI-PV009/1 600 LB B4C			
1649	5/8	0	mm		mm	55,00		NR		Screws for valves ASME B 18.2.1/UNC ASTM A 193 B7		2,72	
									N	M Erection	Total Kg:	1924,55	

FT_64.1 PT_63.10	Plant SZ2 PIPING BOM	Piping Class 126		SB-ATI-SP006/0 SB-ATI- SP007/0
_	<b>Line</b> 63031 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
T	Zones			

		DESME'	T - B	allestra					SI	KETCH	HES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/11/2010
	PUMA	.5		16/11/20	010 10.00	).23							DOC:	1E35.65.1102		
		DE	SMET	- Ballestra	a						SABIZ		Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	As.bly Branch
SZ2	PIPING	BOM				63031 -	0			A	AREA A	1 /	1	TOTAL Kg:	1924,55	

FT_64.1 PT_63.10	Plant SZ2 PIPING BOM	Piping Class 126		SB-ATI-SP006/0 SB-ATI- SP007/0
_	<b>Line</b> 63031 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 2
'	Zones			

	]	DESME	T - Ba	llestra				S	KETCH	HES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16/	11/2010
	PUMA	.5		16/11/20	10 10.00.23							DOC:	1E35.65.1102			
		DF	ESMET	- Ballestra						SABIZ	Size: mm 7	hk: mm	Temp: °C	Pres: Bar(g)	Co	orr: mm
Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	As.bly	Branch
555	25	0	mm	3,38	mm	,00	1,00	m	126	Pipe ASME B36.10 PL Seamless ASTM	I A 106 Gr. I	3		2,50		
561	100	0	mm	6,02	mm	,00	9,50	m	126	Pipe ASME B36.10 PL Seamless ASTM	I A 106 Gr. I	3		152,71		
1130	25	0	mm		mm	,00	1,00	NR	126	Valve Ball Full Port SB-ATI-VS070/0 L AARH) Forged CARBON STEEL S 14:		LF (125÷25	50 1648	6,20		
136	25	0	mm		mm	,00	2,00	NR	126	Flange Slip-On ASME B16.5 600 LB L ASTM A 105	M (125÷250	AARH) Fo	rged 1575	3,20		
142	100	0	mm		mm	,00	2,00	NR	126	Flange Slip-On ASME B16.5 600 LB L ASTM A 105	M (125÷250	AARH) Fo	rged 1581	23,60		
66	25	0	mm	3,38	mm	,00	1,00	NR	126	90° Elbow Long Radius ASME B16.9 E Gr. WPB	BE Wrought S	ASTM A	234	0,14		
72	100	0	mm	6,02	mm	,00	1,00	NR	126	90° Elbow Long Radius ASME B16.9 E Gr. WPB	BE Wrought S	ASTM A	234	3,91		
1581	7/8	0	mm		mm	145,00	16,00	NR	126	Stud Bolt + 2 Nuts SB-ATI-PV008B/0 A Tab.9 ASTM A 193 B7 / A 194 Gr.2H	ASME B18.2	.1 UNC/2.2		10,56		
243	25	0	mm		mm	,00	2,00	NR	126	Gasket SB-ATI-PV009/1 600 LB _ B4C	2					
249	100	0	mm		mm	,00	2,00	NR	126	Gasket SB-ATI-PV009/1 600 LB _ B4C	7					
1648	5/8	0	mm		mm	50,00	8,00	NR	126	Screws for valves ASME B 18.2.1/UNC	ASTM A 19	3 B7		1,28		
	, 	'	'	'		-			N	M Erection			Total Kg:	204,1		
SZ2	PIPING	BOM			63032	- 0			A A	AREA A 1	/ 1		TOTAL Kg:	204,1		

HV_63.3A PSV_63.1	Plant SZ2 PIPING BOM	Piping Class 126		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 63032 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
ı	Zones			

		DESM	ET - Ba	llestra				S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	11/2010
	PUMA	5		16/11/20	10 10.00.23							DOC:	1E35.65.1	102			
		D	ESMET -	- Ballestra	l					SABIZ	Size: mm Th	k: mm	<b>Temp:</b> °C	]	Pres: Bar(g)	Co	orr: mm
Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component			Gen	. Bolt	Weight (Kg)	As.bly	Branch
555	25	0	mm	3,38	mm	,00	1,00	m	126	Pipe ASME B36.10 PL Seamless ASTM	1 A 106 Gr. B				2,50		
561	100	0	mm	6,02	mm	,00	6,00	m	126	Pipe ASME B36.10 PL Seamless ASTM	1 A 106 Gr. B				96,45		
1130	25	0	mm		mm	,00	1,00	NR	126	Valve Ball Full Port SB-ATI-VS070/0 I AARH) Forged CARBON STEEL S 14		F (125÷25	50 1648	3	6,20		
136	25	0	mm		mm	,00	2,00	NR	126	Flange Slip-On ASME B16.5 600 LB L ASTM A 105	M (125÷250 A	ARH) Fo	rged 1575	5	3,20		
142	100	0	mm		mm	,00	2,00	NR	126	Flange Slip-On ASME B16.5 600 LB L ASTM A 105	M (125÷250 A	ARH) Fo	rged 1581	1	23,60		
66	25	0	mm	3,38	mm	,00	1,00	NR	126	90° Elbow Long Radius ASME B16.9 E Gr. WPB	BE Wrought S	ASTM A	234		0,14		
72	100	0	mm	6,02	mm	,00	1,00	NR	126	90° Elbow Long Radius ASME B16.9 E Gr. WPB	BE Wrought S	ASTM A	234		3,91		
1581	7/8	0	mm		mm	145,00	16,00	NR	126	Stud Bolt + 2 Nuts SB-ATI-PV008B/0 A Tab.9 ASTM A 193 B7 / A 194 Gr.2H	ASME B18.2.1	UNC/2.2	!		10,56		
243	25	0	mm		mm	,00	2,00	NR	126	Gasket SB-ATI-PV009/1 600 LB _ B40	C						
249	100	0	mm		mm	,00	2,00	NR	126	Gasket SB-ATI-PV009/1 600 LB _ B40	2						
1648	5/8	0	mm		mm	50,00	8,00	NR	126	Screws for valves ASME B 18.2.1/UNC	C ASTM A 193	B7			1,28		
				1		-			N	M Erection			To	tal Kg:	147,84		
SZ2	PIPING	BOM			63035 -	- 0			A A	AREA A 1	/ 1		TOTA	AL Kg:	147,84		

HV_63.3B PSV_63.2	Plant SZ2 PIPING BOM	Piping Class 126		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 63035 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
ı	Zones			

		DESME	ET - Ba	llestra					S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	11/2010
	PUMA	.5		16/11/20	10 10.00	.24							DOC:	1E35.0	65.1102			
		DI	ESMET	- Ballestra	1						SABIZ	Size: mm Th	ık: mm	Temp:	°C	Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
555	25	0	mm	3,38		mm	,00	1,00	m	126	Pipe ASME B36.10 PL Seamless ASTM	I A 106 Gr. B				2,50		
561	100	0	mm	6,02		mm	,00	3,00	m	126	Pipe ASME B36.10 PL Seamless ASTM	1 A 106 Gr. B				48,22		
1130	25	0	mm			mm	,00	1,00	NR	126	Valve Ball Full Port SB-ATI-VS070/0 L AARH) Forged CARBON STEEL S 14		F (125÷25	50	1648	6,20		
136	25	0	mm			mm	,00	2,00	NR	126	Flange Slip-On ASME B16.5 600 LB L ASTM A 105	M (125÷250 A	ARH) Fo	rged	1575	3,20		
142	100	0	mm			mm	,00	2,00	NR	126	Flange Slip-On ASME B16.5 600 LB L ASTM A 105	M (125÷250 A	ARH) Fo	rged	1581	23,60		
66	25	0	mm	3,38		mm	,00	1,00	NR	126	90° Elbow Long Radius ASME B16.9 E Gr. WPB	BE Wrought S	ASTM A	234		0,14		
72	100	0	mm	6,02		mm	,00	1,00	NR	126	90° Elbow Long Radius ASME B16.9 E Gr. WPB	BE Wrought S	ASTM A	234		3,91		
1581	7/8	0	mm			mm	145,00	16,00	NR	126	Stud Bolt + 2 Nuts SB-ATI-PV008B/0 A Tab.9 ASTM A 193 B7 / A 194 Gr.2H	ASME B18.2.1	UNC/2.2	2		10,56		
243	25	0	mm			mm	,00	2,00	NR	126	Gasket SB-ATI-PV009/1 600 LB _ B4C	2						
249	100	0	mm			mm	,00	2,00	NR	126	Gasket SB-ATI-PV009/1 600 LB _ B4C							
1648	5/8	0	mm			mm	50,00	8,00	NR	126	Screws for valves ASME B 18.2.1/UNC	ASTM A 193	3 B7			1,28		
			-1			1					M Erection				Total Kg:	99,61		
SZ2	PIPING	BOM				63039	- 0			Α Α	AREA A 1	/ 1		Т	OTAL Kg:	99,61		

HV_63.3C PSV_63.3	Plant SZ2 PIPING BOM	Piping Class 126	Welding specificatio	n SB-ATI-SP006/0 SB-ATI- SP007/0
_	<b>Line</b> 63039 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
<u>'</u>	Zones			

	I	DESME	T - Ba	llestra					SKE	ЕТСН	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/1	11/2010
	PUMA:	5		16/11/20	10 10.00	.24							DOC:	1E35.6	5.1102		•	
	DESMET - Ballestra							SABIZ Size: mm Thk: mm T							C	Pres: Bar(g)	Co	rr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um Pip	o. class	Component			0	Gen. Bolt	Weight (Kg) As	s.bly	Branch
561	100	0	mm	6,02		mm	,00	2,50	m 126	5	Pipe ASME B36.10 PL Seamless ASTM	I A 106 Gr. B				40,19		
153	100	0	mm			mm	,00	1,00	NR 126	5	Flange Slip-On ASME B16.5 600 LB LI ASTM A 105	F (125÷250 AA)	RH) Forg	ged 1	581	11,80		
72	100	0	mm	6,02		mm	,00	1,00	NR 126	5	90° Elbow Long Radius ASME B16.9 B Gr. WPB	BE Wrought S A	STM A 2	234		3,91		
1581	7/8	0	mm			mm	145,00	8,00	NR 126	5	Stud Bolt + 2 Nuts SB-ATI-PV008B/0 A Tab.9 ASTM A 193 B7 / A 194 Gr.2H	ASME B18.2.1 U	UNC/2.2			5,28		
249	100	0	mm			mm	,00	1,00	NR 126	5	Gasket SB-ATI-PV009/1 600 LB _ B4C							
					•				'	M	1 Erection			'	Total Kg:	61,18		
SZ2	PIPING I	BOM				64020	- 0		A	. A	AREA A 1 /	/ 1		TO	TAL Kg:	61,18		

Plant SZ2 PIPING BOM	Piping Class 126	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
<b>Line</b> 64020 - 0	Fluid	System	
Dang. fluid type	Coating	De pres	Op tem
Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
Zones			

	J	DESMI	ET - Ba	llestra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	5/11/2010
	PUMA	5		16/11/20	010 10.00	.24							DOC:	1E35.6	55.1102		•	
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thl	ζ: mm	Temp: °	С	Pres: Bar(g)	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mn	ı Qty	Um	Pip. class	Component			(	Gen. Bolt	Weight (Kg)	As.bly	Branch
544	80	0	mm	3,18		mm	,00	10,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				67,22		
218	80	0	mm			mm	,00	6,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	5÷250AA	RH) 1	615	10,32		
1550	80	0	mm	3,18		mm	,00	2,00	NR	129	Elbow a=90° SB-ATI-PC005/0 BW Sea R=1500mm	mless API 5L 0	Gr.B			1,84		
1615	M10	0	mm			mm	35,00	12,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	+ UNI 559	92 4.6		0,48		
302	80	0	mm			mm	,00	3,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250A	ARH) _ B	318C				
	'	'	'	'	'	1	'	•		N	1 Erection				Total Kg:	79,87		
SZ2	PIPING	ВОМ				64025	- 0			A A	AREA A 1/	1		TO	OTAL Kg:	79,87		

64Y23	Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	<b>Line</b> 64025 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET -	Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.24		DOC:	1E35.65.1102		
DESM	ET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	(	Gen. Bolt	Weight (Kg)	As.bly	Branch
600	200	0	mm	3,0		mm	,00	1,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360	B - UNI 7070		15,99		
										N	M Erection		Total Kg:	15,99		
SZ2	PIPING E	ВОМ			(	64032 -	0			A A	AREA A 1 / 1	TO	OTAL Kg:	15,99		

64Y18	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 64032 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

	I	DESMI	ET - Ba	llestra					5	SKETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA:	5		16/11/20	10 10.00	.25							DOC:	1E35.6	55.1102	•	- '-	
		D	ESMET -	- Ballestra	ì			SABIZ Size: mm Thk: mm							PC C	Pres: Bar(g)		orr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Un	Pip. class	Component			(	Gen. Bolt	Weight (Kg) A	s.bly	Branch
544	80	0	mm	3,18		mm	,00	10,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				67,22		
218	80	0	mm			mm	,00	9,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	5÷250AA	RH) 1	1615	15,48		
1523	80	0	mm	3,18		mm	,00	2,00	NR	129	Elbow a=45° SB-ATI-PC005/0 BW Sea R=1500mm	mless API 5L 0	Gr.B			1,84		
1615	M10	0	mm			mm	35,00	20,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A/ UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	+ UNI 559	92 4.6		0,80		
302	80	0	mm			mm	,00	5,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	02(125÷250A	ARH) _ B	318C				
					1		T.		1	N	1 Erection				Total Kg:	85,35		
SZ2	PIPING I	ВОМ				64040	- 0			A A	AREA A 1 /	1		TO	OTAL Kg:	85,35		

64Y33	Plant SZ2 PIPING BOM	Piping Class 129	Welding specificatio	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 64040 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
•	Zonos			

	]	DESME	T - Ba	llestra					S	KETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16/	/11/2010
	PUMA:	5		16/11/20	010 10.00	.25							DOC:	1E35.0	65.1102			
		DE	SMET -	Ballestra	a						SABIZ	Size: mm	Thk: mm	Temp:	°C	Pres: Bar(g)	С	Corr: mm
Mark	S1	S2		T1	T2		Len mn	ı Qty	Um	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
600	200	0	mm	3,0		mm	,00	4,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	60 B - UNI 7	7070			63,95		
1213	200	0	mm	3,0		mm	,00	1,00	NR	124	90° Miter SB-ATI-PC003/0 BE Welded	Fe 360 B -	UNI 7070 R	R=1.5 D		7,50		
1326	200	0	mm	3,0		mm	,00	1,00	NR	124	45° Miter SB-ATI-PC003/0 BE Welded	Fe 360 B -	UNI 7070 R	R=1.5 D		4,08		
								•		N	// Erection			,	Total Kg:	75,53		

TOTAL Kg:

75,53

AREA A

Α

SZ2

PIPING BOM

64Y26	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 64133 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

	1	DESME	T - Ba	allestra				SKETCHES MATERIAL LIST PROJ: 1E35						1E35		REV:	) 10	6/11/2010
	PUMA	5		16/11/2	010 10.00	).25							DOC:	1E35.6	55.1102			
		DI	ESMET	- Ballestr	a						SABIZ	Size: mm Thk	: mm	Temp: °	C	Pres: Bar(g)		Corr: mm
								1		1								
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			(	Gen. Bolt	Weight (Kg	) As.bly	Branch
600	200	0	mm	3,0		mm	,00	14,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	0 B - UNI 7070	O			223,82		
761	200	125	mm	3,0	3,96	mm	,00	2,00	NR	124	Reducer Concentric SB-ATI-PR005/0 B	E Welded Fe 3	60 B - Ul	NI				
			-	_			<u>'</u>				7070							
1326	200	0	mm	3,0		mm	,00	2,00	NR	124	45° Miter SB-ATI-PC003/0 BE Welded	Fe 360 B - UN	I 7070 R:	=1.5 D		8,16		
	·									N	M Erection				Total Kg:	231,98	3	
SZ2	PIPING	ВОМ				65019	- 0			A A	AREA A 1 /	1		T	OTAL Kg:	231,98		

65Y43	Plant SZ2 PIPING BOM	Piping Class 124	Welding specificatio	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65019 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.25		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len n	nm Qty	Um	Pip. class	Component	Gen. Bol	Weight (Kg)	As.bly	Branch
600	200	0	mm	3,0	I	nm	00 2,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 707	0	31,97		
	·		•						N	1 Erection	Total K	g: 31,97		
SZ2	PIPING I	ВОМ			6	5020 - 0			A A	AREA A 1/1	TOTAL K	g: 31,97		

65Y1	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65020 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET -	Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.25		DOC:	1E35.65.1102		
DESM	ET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch
600	200	0	mm	3,0	mm	,00	1,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		15,99		
1213	200	0	mm	3,0	mm	,00	1,00	NR	124	90° Miter SB-ATI-PC003/0 BE Welded Fe 360 B - UNI 7070 R=1.5 D		7,50		
	•			•					l	M Erection	Total Kg:	23,49		
SZ2	PIPING 1	ВОМ			65021	- 0			A A	AREA A 1/1	TOTAL Kg:	23,49		

65Y2	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65021 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
"	Zones			

	]	DESME	T - Ba	llestra					S	SKE	тсн	ES MATERIAL LIST		PRO	<b>J:</b> 1E3	5	REV:	16	5/11/2010
	PUMA	5		16/11/20	010 10.00	.25								DOC	l: 1E3	5.65.1102		•	
		DE	ESMET -	Ballestra	a							SABIZ	Size: mm	Thk: mm	Tem	p: °C	Pres: Bar(g)	(	Corr: mm
Mark	S1	S2		T1	Т2		Len mn	n Qty	Un	n Pip.	. class	Component				Gen. Bolt	Weight (Kg	As.bly	Branch
566	100	0	mm	3,18		mm	,00	2,00	m	124		Pipe ASME B36.10 PL E.R.W. API 5L	Gr.B				17,43		
59	100	0	mm	3,18		mm	,00	1,00	NR	R 124	•	90° Elbow Long Radius ASME B16.9 B WPB	E E.R.W. A	ASTM A 2	34 Gr.		2,07		
											M	Erection				Total Kg:	19,49		

TOTAL Kg:

19,49

AREA A

Α

SZ2

PIPING BOM

65Y3	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	<b>Line</b> 65022 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

	DESMET - Ballestra								S	KETCI	HES MATERIAL LIST		PROJ:	1E35	<b>REV:</b> 0	16	/11/2010
	PUMA	.5		16/11/20	010 10.00	0.26	1						DOC:	1E35.65.1102	•		
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk	: mm	Temp: °C	Pres: Bar(g)	С	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	As.bly	Branch
568	150	0	mm	3,96		mm	,00	8,00	m	124	Pipe ASME B36.10 PL E.R.W. API 5L	Gr.B			128,39		
27	150	0	mm	3,96		mm	,00	2,00	NR	124	45° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W. AST	M A 234	Gr.	5,70		
61	150	0	mm	3,96		mm	,00	1,00	NR	124	90° Elbow Long Radius ASME B16.9 E WPB	BE E.R.W. AST	M A 234	Gr.	5,66		
										]	M Erection			Total Kg:	139,75		
SZ2	PIPING	PIPING BOM 65023 - 0				- 0			A	AREA A 1	/ 1		TOTAL Kg:	139,75			

65Y4	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	on SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65023 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

	DESMET - Ballestra									SKI	ETCH	ES MATERIAL LIST		PROJ	: 1E35		REV:	0	16/11/20	10
	PUMA	5		16/11/20	10 10.00	.26								DOC:	1E35	.65.1102				
	DESMET - Ballestra											SABIZ	Size: mm T	hk: mm	Temp	:°C	Pres: Bar(g)		Corr: mm	ı
Mark	S1	S2		T1	T2		Len mn	en mm Qty Um Pip. class				Component				Gen. Bolt	Weight (K	g) As.bl	v Branc	ch
568	150	0	mm	3,96		mm	,00		_	n 124	· ·						128,3	O, .		
61	150	0	mm	3,96		mm	,00	,00 1,00 NR 124 90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 2 WPB					STM A 234	4 Gr.		5,0	6			
	M Erection													Total Kg:	134,	)5				

TOTAL Kg:

134,05

AREA A

Α

SZ2

PIPING BOM

65Y5	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65024 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

	DESMET - Ballestra								S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	11/2010
	PUMA	.5		16/11/20	010 10.00	0.26							DOC:	1E35.65.	1102			
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk	: mm	Temp: °C		Pres: Bar(g)	C	orr: mm
Mark	S1	S1   S2   T1   T2   Len mm   150   0   mm   3,96   mm   0,00					Len mm	Qty	Um	Pip. class	Component			Ger	n. Bolt	Weight (Kg)	As.bly	Branch
568	150	0	mm	3,96		mm	,00								24,07			
27	150	0	mm	3,96		mm	,00	2,00	NR	124	45° Elbow Long Radius ASME B16.9 E WPB	E E.R.W. AST	M A 234	Gr.		5,70		
61	150	0	mm	3,96		mm	,00	1,00	NR	124	90° Elbow Long Radius ASME B16.9 E WPB	E E.R.W. AST	M A 234	Gr.		5,66		
										I	M Erection			To	otal Kg:	35,44		
SZ2	2 PIPING BOM 65025 - 0					- 0			Α .	AREA A 1	<sup>'</sup> 1		тот	AL Kg:	35,44			

65Y6	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65025 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

	DESMET - Ballestra PUMA5 16/11/2010 10.00.26									S	KETCH	IES MATERIAL LIST		PROJ	: 1E35		<b>REV:</b> 0	16	/11/2010
	PUMA:	5		16/11/20	10 10.00	.26								DOC:	1E35	.65.1102			
		DE	SMET -	Ballestra	1							SABIZ	Size: mm T	hk: mm	Temp	:°C	Pres: Bar(g)	C	Corr: mm
										-	_								
Mark	S1	S2		T1	T2		Len mn	m Qty Um Pip. class Component								Gen. Bolt	Weight (Kg)	As.bly	Branch
568	150	0	mm	3,96		mm	,00	2,	00	m	124	Pipe ASME B36.10 PL E.R.W. API 5L	Gr.B				32,10		
61	150	0	mm	3,96		mm	,00	) 1,	00	NR	124	90° Elbow Long Radius ASME B16.9 E	BE E.R.W. AS	STM A 23	4 Gr.		5,66		
			•			•						WPB							
											N	1 Erection				Total Kg:	37,76		

TOTAL Kg:

37,76

AREA A

Α

SZ2

PIPING BOM

65Y7	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65026 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
ı	Zones			

	Г					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16/	11/2010				
	PUMA5	í		16/11/20	10 10.00.	.26								DOC:	1E35.	65.1102			
		DE	SMET -	Ballestra								SABIZ	Size: mm Thk	: mm	Temp:	°C	Pres: Bar(g)	C	orr: mm
Mark							Len mn	n O	tv [	Jm	Pip. class	Component				Gen. Bolt	Weight (Kg)	As.bly	Branch
545	100	0	mm	3,18		mm	,00	+	_		129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				8,71		
219	100	0	mm			mm	,00	2,	00 1	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	÷250AAl	RH)	1615	3,80		
1615	M10	0	mm			mm	35,00	12,	00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A/ UNI 3740 + 4A UNI 3740	0 - UNI 5727 +	- UNI 559	92 4.6		0,48		
303	100	0	mm			mm	,00	3,	1 00	٧R	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	02(125÷250AA	ARH) _ B	18C				
											N	I Erection				Total Kg:	12,99		
SZ2	PIPING E	PIPING BOM 65094 -									A A	AREA A 1 /	1		1	TOTAL Kg:	12,99		

KV_65.4	Plant SZ2 PIPING BOM	Piping Class 129	Welding specificatio	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65094 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET - Ballestra		SKETCHES MATERIAL LIST	PROJ:	1E35	REV:	)	16/11/2010
PUMA5 16/11/2010	10.00.26		DOC:	1E35.65.1102			
DESMET - Ballestra		SABIZ	Size: mm Thk: mm	Temp: °C P	res: Bar(g)		Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg)	As.bly	Branch
545	100	0	mm	3,18		mm	,00	5,00	m	129	Pipe ASME B36.10 BE	E.R.W. API 5L Gr.B		43,57		
	·	•								N	Total Kg	: 43,57	•			
SZ2	PIPING I	ВОМ	65095 - 0		0			A A	AREA A	1/1	TOTAL Kg	: 43,57				

65Y51 65Y54	Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65095 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

	I	DESME	T - Ba	llestra					S	KETCI	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA:	5		16/11/20	10 10.00.	27							DOC:	1E35.65	.1102			
		DE	SMET -	Ballestra	l						SABIZ	Size: mm Thk	: mm	<b>Temp:</b> °C		Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Ge	en. Bolt	Weight (Kg)	As.bly	Branch
545	100	0	mm	3,18		mm	,00	1,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				8,71		
219	100	0	mm			mm	,00	2,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	÷250AA	RH) 16	15	3,80		
1615	M10	0	mm			mm	35,00	12,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 +	- UNI 559	92 4.6		0,48		
303	100	0	mm			mm	,00	3,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250AA	ARH) _ B	18C				
	*	*	•	*	•	•		-		]	M Erection			Т	Total Kg:	12,99		
SZ2	PIPING I	ВОМ				65096	- 0			Α .	AREA A 1 /	1		TOT	TAL Kg:	12,99		

KV_65.5	Plant SZ2 PIPING BOM	Piping Class 129	Welding specificatio	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65096 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.27		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	]	Len mm	Qty	Um	Pip. class	Component	(	Gen. Bolt	Weight (Kg) A	s.bly	Branch
545	100	0	mm	3,18	1	mm	,00	5,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L Gr.B			43,57		
										N	M Erection		Total Kg:	43,57		
SZ2	PIPING E	ВОМ			6	55097 - 0	)			A A	AREA A 1/1	To	OTAL Kg:	43,57		

65Y52 65Y53	Plant SZ2 PIPING BOM	Piping Class 129		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65097 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
•	Zones			

	]	DESMI	ET - Ba	allestra					S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/20	010 10.00	.27							DOC:	1E35.65	.1102			
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk	: mm	Temp: °C		Pres: Bar(g)	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Ge	en. Bolt	Weight (Kg)	As.bly	Branch
546	125	0	mm	3,96		mm	,00	0,50	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				6,71		
220	125	0	mm			mm	,00	1,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	÷250AA	RH) 16	516	2,93		
645	150	125	mm	3,96	3,96	mm	,00	1,00	NR	129	Reducer Concentric ASME B16.9 BE E	R.W. ASTM A	234 Gr.	WPB		2,18		
1616	M10	0	mm			mm	40,00	16,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 +	+ UNI 559	92 4.6		0,80		
304	125	0	mm			mm	,00	2,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250AA	ARH) _ B	18C				
							<u>'</u>			1	M Erection			1	Total Kg:	12,61		
SZ2	PIPING	ВОМ				65200	- 0			A	AREA A 1 /	′ 1		TO	TAL Kg:	12,61		

KV_65.6A	Plant SZ2 PIPING BOM	Piping Class 129	Welding specificatio	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65200 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
!	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.27	DOC:	1E35.65.1102			
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	<b>Temp:</b> °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bl	Branch
547	150	0	mm	3,96		mm	,00	5,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L Gr.B			80,24	
										M	[ Erection		Total Kg:	80,24	
SZ2	PIPING B	OM			(	55201 -	0			A A	REA A 1 / 1	Г	OTAL Kg:	80,24	

65Y33 65Y55	Plant SZ2 PIPING BOM	Piping Class 129	Welding specificati	on SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65201 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
· ·	Zones			

	I	DESME	eT - Ba	allestra					S	KETCH	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA:	5		16/11/20	10.00	.28							DOC:	1E35.65.11	102	•		-
		DI	ESMET	- Ballestra	ì						SABIZ	Size: mm Thl	<b>∢:</b> mm	Temp: °C		Pres: Bar(g)	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mn	n Qty	Um	Pip. class	Component			Gen.	Bolt	Weight (Kg)	As.bly	Branch
546	125	0	mm	3,96		mm	,00	0,50	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				6,71		
220	125	0	mm			mm	,00	1,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-ATI-P	ATI-PF002(125	5÷250AA1	RH) 1616		2,93		
645	150	125	mm	3,96	3,96	mm	,00	1,00	NR	129	Reducer Concentric ASME B16.9 BE E.	R.W. ASTM A	234 Gr.	WPB		2,18		
1616	M10	0	mm			mm	40,00	16,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	+ UNI 559	92 4.6		0,80		
304	125	0	mm			mm	,00	2,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250A	ARH) _ B	18C				
						•	•	_		N	M Erection			Tota	al Kg:	12,61		
SZ2	PIPING I	ВОМ				65202	- 0			A A	AREA A 1 /	1		TOTA	L Kg:	12,61		

KV_65.6B	Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
	Line 65202 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
!	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.28		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bl	y Branch
547	150	0	mm	3,96		mm	,00	5,00	m	129	Pipe ASME B36.10 BI	E E.R.W. API 5L Gr.B		80,24	
	M Erection						Total Kg:	80,24							
SZ2	PIPING B	BOM				65203 -	0			A A	REA A	1/1	TOTAL Kg:	80,24	

65Y35 65Y57	Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65203 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
"	Zones			

	J	DESMI	ET - Ba	allestra					S	KETCH	HES MATERIAL LIST		PROJ:	1E35	REV:	16	5/11/2010
	PUMA	5		16/11/20	10.0	0.28							DOC:	1E35.65.1102	•		
		D	ESMET	- Ballestra	1						SABIZ	Size: mm Thk	: mm	Temp: °C	Pres: Bar(g)	(	Corr: mm
Mark	<b>S1</b>	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg	) As.bly	Branch
546	125	0	mm	3,96		mm	,00	0,50	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B			6,71		
220	125	0	mm			mm	,00	1,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-ATI-P	ATI-PF002(125	÷250AA	RH) 1616	2,93		
645	150	125	mm	3,96	3,96	mm	,00	1,00	NR	129	Reducer Concentric ASME B16.9 BE E.	R.W. ASTM A	234 Gr.	WPB	2,18		
1616	M10	0	mm			mm	40,00	16,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 +	- UNI 559	92 4.6	0,80		
304	125	0	mm			mm	,00	2,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250AA	ARH) _ B	18C			
	,		'	•	•		•		•	1	M Erection			Total Kg:	12,61		
SZ2	PIPING	ВОМ				65204 -	. 0			A	AREA A 1 /	1		TOTAL Kg:	12,61		

KV_65.6C	Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	<b>Line</b> 65204 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.28		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bl	y Branch
547	150	0	mm	3,96		mm	,00	5,00	m	129	Pipe ASME B36.10 BE E.R.W. API 5L Gr.B			80,24	
	·		•						·	M	Erection		Total Kg:	80,24	
SZ2	PIPING B	OM			ı	65205 -	0			A A	REA A 1 / 1	7	OTAL Kg:	80,24	

65Y37 65Y58	Plant SZ2 PIPING BOM	Piping Class 129	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0			
	<b>Line</b> 65205 - 0	Fluid	System			
	Dang. fluid type	Coating	De pres	Op tem		
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1		
1	Zones					

	]	DESMI	ET - Ba	allestra					S	KETCI	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/20	010 10.00	0.28							DOC:	1E35.65	.1102			
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk	: mm	<b>Temp:</b> °C		Pres: Bar(g)	C	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Ge	en. Bolt	Weight (Kg)	As.bly	Branch
546	125	0	mm	3,96		mm	,00	0,50	m	129	Pipe ASME B36.10 BE E.R.W. API 5L	Gr.B				6,71		
220	125	0	mm			mm	,00	1,00	NR	129	Flange Slip-On SB-ATI-PF002/0 * SB-A Forged Fe 360 B - UNI 7070	ATI-PF002(125	÷250AA	RH) 16	16	2,93		
645	150	125	mm	3,96	3,96	mm	,00	1,00	NR	129	Reducer Concentric ASME B16.9 BE E	R.W. ASTM A	234 Gr.	WPB		2,18		
1616	M10	0	mm			mm	40,00	16,00	NR	129	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 +	+ UNI 559	92 4.6		0,80		
304	125	0	mm			mm	,00	2,00	NR	129	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	002(125÷250AA	ARH) _ B	18C				
					•					1	M Erection			Т	otal Kg:	12,61		
SZ2	PIPING	ВОМ				65206	- 0			A	AREA A 1 /	1		TO	ΓAL Kg:	12,61		

KV_65.6D	Plant SZ2 PIPING BOM	Piping Class 129	Welding specificatio	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65206 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET - Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.00.29		DOC:	1E35.65.1102		
DESMET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C Pr	es: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) A	s.bly Branch
547	150	0	mm	3,96		mm	,00	5,00	m	129	Pipe ASME B36.10 BE	E.R.W. API 5L Gr.B		80,24	
									·	M	Erection		Total Kg	80,24	
SZ2	PIPING B	OM				65207 -	0			A A	REA A	1 / 1	TOTAL Kg	80,24	

65Y38 65Y59	Plant SZ2 PIPING BOM	Piping Class 129	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65207 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
"	Zones			

DESMET - Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.00.29		DOC:	1E35.65.1102		
DESMET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C Pr	es: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.b	y Branch
574	15	0	mm	2,77		mm	,00	0,20	m	124	Pipe ASME B36.10 I	PL sch.40 Seamless API 5L Gr.B		0,25	
	·						_			N	1 Erection		Total Kg:	0,25	
SZ2	PIPING	BOM				VEST. 6	52V1 - 0			A A	AREA A	1/1	TOTAL Kg:	0,25	

LSL_62.1 LSH_62.1	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0				
_	<b>Line</b> VEST. 62V1 - 0	Fluid	System				
	Dang. fluid type	Coating	De pres	Op tem			
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1			
!	Zones						

DESMET - Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.00.29		DOC:	1E35.65.1102		
DESMET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C Pr	es: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen.	. Bolt	Weight (Kg) As.bly	Branch
574	15	0	mm	2,77	mm	,00	0,20	m	124	Pipe ASME B36.10 PL sch.40 Seamless API 5L Gr.B			0,25	
									N	1 Erection	Tot	tal Kg:	0,25	
SZ2	PIPING I	ВОМ			VEST	. 62V2 - 0			A A	AREA A 1/1	TOTA	AL Kg:	0,25	

LSL_62.2 LSH_62.2	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
	Line VEST. 62V2 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

DESMET - Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5 16/11/2010 10.00.29		DOC:	1E35.65.1102		
DESMET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C Pr	es: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bl	y Branch
574	15	0	mm	2,77		mm	,00	0,20	m	124	Pipe ASME B36.10 F	PL sch.40 Seamless API 5L Gr.B		0,25	
	·						_			N	A Erection		Total Kg:	0,25	
SZ2	PIPING	BOM				VEST. 6	52V3 - 0			A A	AREA A	1/1	TOTAL Kg:	0,25	

LSL_62.3 LSH_62.3	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> VEST. 62V3 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.30		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C 1	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) As.l	ly Branch
574	15	0	mm	2,77	mm	,00	0,20	m	124	Pipe ASME B36.10 PL sch.40 Seamless API 5L Gr.B		0,25	
									N	1 Erection	Total Kg:	0,25	
SZ2	PIPING I	ВОМ			VEST	. 62V4 - 0			A A	AREA A 1/1	TOTAL Kg:	0,25	

LSL_62.4 LSH_62.4	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	Line VEST. 62V4 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
'	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.30		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C 1	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um Pip. class	Component		Gen. Bolt	Weight (Kg) As.bly	Branch
574	15	0	mm	2,77		mm	,00	0,20	m 124	Pipe ASME B36.	10 PL sch.40 Seamless API 5L Gr.B		0,25	
			M Erection									Total Kg:	0,25	
SZ2	PIPING B	OM			,	VEST.	52V5 - 0		A A	AREA A	1/1	OTAL Kg:	0,25	

LSL_62.5 LSH_62.5	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> VEST. 62V5 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
,	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.30		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.b	y Branch
574	15	0	mm	2,77	mn	,00	0,20	m	124	Pipe ASME B36.10 PL	. sch.40 Seamless API 5L Gr.B		0,25	
									N	M Erection		Total Kg:	0,25	
SZ2	PIPING	ВОМ			VE	T. 62V6 - 0			A A	AREA A	1/1	TOTAL Kg:	0,25	

LSL_62.6	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> VEST. 62V6 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
"	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.30		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.l	ly Branch
574	15	0	mm	2,77	mn	,00	0,20	m	124	Pipe ASME B36.10 PL scl	n.40 Seamless API 5L Gr.B		0,25	
									N	A Erection		Total Kg:	0,25	
SZ2	PIPING	ВОМ			VE	T. 62V6A - 0			A A	AREA A	1/1	TOTAL Kg:	0,25	

LSL_62.6A	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> VEST. 62V6A - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
<u>'</u>	Zones			

		DESME	ET - Ba	llestra					SK	KETCH	IES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 1	6/11/2010
	PUMA	.5		16/11/20	10 10.00	0.30							DOC:	1E35.65	5.1102		
		DI	ESMET -	Ballestra	ı						SABIZ	Size: mm Thk	: mm	Temp: °C		Pres: Bar(g)	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um P	Pip. class	Component			G	en. Bolt	Weight (Kg) As.bly	Branch
553	15	0	mm	2,77		mm	,00	0,30	m 1	26	Pipe ASME B36.10 PL Seamless ASTM	I A 106 Gr. B				0,38	
1128	15	0	mm			mm	,00	1,00	NR 1	26	Valve Ball Full Port SB-ATI-VS070/0 I AARH) Forged CARBON STEEL S 14		7 (125÷25	50 16	546	3,00	
1177	15	0	mm			mm	,00	1,00	NR 1	26	Valve Check SB-ATI-VR007/0 FLG 60 Forged ASTM A 105 R 59	0 LB LF (125÷	250 AAR	(H) 15	574	3,50	
134	15	0	mm			mm	,00	4,00	NR 1	26	Flange Slip-On ASME B16.5 600 LB L ASTM A 105	M (125÷250 A	ARH) For	rged 15	574	3,20	
1574	15	0	mm			mm	70,00	8,00	NR 1	26	Stud Bolt + 2 Nuts SB-ATI-PV008B/0 A Tab.9 ASTM A 193 B7 / A 194 Gr.2H	ASME B18.2.1	UNC/2.2			0,88	
241	15	0	mm			mm	,00	4,00	NR 1	26	Gasket SB-ATI-PV009/1 600 LB _ B40	2					
1646	15	0	mm			mm	45,00	8,00	NR 1	26	Screws for valves ASME B 18.2.1/UNC	ASTM A 193	В7			0,72	
	•	'			'					N	1 Erection			1	Total Kg:	11,68	
SZ2	PIPING	BOM				VEST.	63AB1 - 0			A A	AREA A 1	/ 1		TO	TAL Kg:	11,68	

PISH_63.3	Plant SZ2 PIPING BOM	Piping Class 126	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> VEST. 63AB1 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.31		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.b	y Branch
574	15	0	mm	2,77	mı	,00	0,20	m	124	Pipe ASME B36.10 PL	sch.40 Seamless API 5L Gr.B		0,25	
			•						N	M Erection		Total Kg:	0,25	
SZ2	PIPING	ВОМ			VE	ST. 64V6 - 0			A A	AREA A	1/1	TOTAL Kg:	0,25	

LSL_64.4 LSL_64.7	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
64Y35	Line VEST. 64V6 - 0	Fluid	System	
64Y36	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
J	Zones			

DESMET	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
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DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component	Gen. I	olt Weight (	(Kg) As.bly	Branch
574	15	0	mm	2,77	mm	,00	0,20	m	124	Pipe ASME B36.10 PL sch.40 Seamless API 5L Gr.B		0,	25	
	·								N	1 Erection	Total	Kg: 0	25	
SZ2	PIPING I	ВОМ			VEST	. 65V1 - 0			A A	AREA A 1/1	TOTAL	Kg: 0,	25	

LSL_65.1 LSH_65.1	Plant SZ2 PIPING BOM	Piping Class 124	Welding specificatio	n SB-ATI-SP006/0 SB-ATI- SP007/0
65Y48	Line VEST. 65V1 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	REV:	0	16/11/2010
PUMA5	16/11/2010 10.00.31		DOC:	1E35.65.1102			
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C P	res: Bar(g)		Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um Pip. class	Component		Gen. Bolt	Weight (Kg) As.bly	Branch
574	15	0	mm	2,77		mm	,00	0,20	m 124	Pipe ASME B36.10 PI	L sch.40 Seamless API 5L Gr.B		0,25	
	·		M Erection									Total Kg:	0,25	
SZ2	PIPING B	OM				VEST.	65V2 - 0		A A	AREA A	1 / 1	TOTAL Kg:	0,25	

LSL_65.2 LSH_65.2	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
65Y49	Line VEST. 65V2 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
"	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PF	ROJ:	1E35	REV:	0	16/11/2010
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DESM	IET - Ballestra	SABIZ	Size: mm Thk: mr	m	Temp: °C	Pres: Bar(g)		Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As	.bly Branch
574	15	0	mm	2,77		mm	,00	0,20	m	124	Pipe ASME B36.10 P	L sch.40 Seamless API 5L Gr.B		0,25	
	M Erection									Total Kg:	0,25				
SZ2	PIPING E	BOM				VEST.	65V3 - 0			A A	REA A	1 / 1	TOTAL Kg:	0,25	

LSL_65.3 65Y50	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> VEST. 65V3 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
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DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um Pip. class	Component		Gen. Bolt	Weight (Kg) As.bly	Branch
574	15	0	mm	2,77		mm	,00	0,20	m 124	Pipe ASME B36.10	PL sch.40 Seamless API 5L Gr.B		0,25	
	M Erection								Total Kg:	0,25				
SZ2	PIPING B	OM				VEST.	65V6A - 0		A A	AREA A	1 / 1	TOTAL Kg:	0,25	

LSH_65.6A LSL_65.6A	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
_	<b>Line</b> VEST. 65V6A - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
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DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.l	oly Branch
574	15	0	mm	2,77		mm	,00	0,20	m	124	Pipe ASME B36.10 F	L sch.40 Seamless API 5L Gr.B		0,25	
	·									N	1 Erection		Total Kg:	0,25	
SZ2	PIPING	BOM				VEST. 6	65V6B - 0			A A	AREA A	1/1	TOTAL Kg:	0,25	

LSH_65.6B LSL_65.6B	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
_	<b>Line</b> VEST. 65V6B - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
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DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.l	ly Branch
574	15	0	mm	2,77	mr	,00	0,20	m	124	Pipe ASME B36.10 PI	sch.40 Seamless API 5L Gr.B		0,25	
									N	M Erection		Total Kg:	0,25	_
SZ2	PIPING	ВОМ			VE	ST. 65V6C - 0			A A	AREA A	1/1	TOTAL Kg:	0,25	

LSH_65.6C LSL_65.6C	Plant SZ2 PIPING BOM	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	Line VEST. 65V6C - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
ı	Zones			

DESMET -	- Ballestra	SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
PUMA5	16/11/2010 10.00.32		DOC:	1E35.65.1102		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As	.bly Branch
574	15	0	mm	2,77		mm	,00	0,20	m	124	Pipe ASME B36.10 I	PL sch.40 Seamless API 5L Gr.B		0,25	
	·	•					_			M	Erection		Total Kg:	0,25	
SZ2	PIPING E	ВОМ				VEST.	65V6D - 0			A A	REA A	1/1	OTAL Kg:	0,25	

LSH_65.6D LSL_65.6D	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0		
_	<b>Line</b> VEST. 65V6D - 0	Fluid	System		
	Dang. fluid type	Coating	De pres	Op tem	
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1	
1	Zones				

DESMET - Ballestra		SKETCHES MATERIAL LIST	PROJ:	1E35	<b>REV:</b> 0	16/11/2010
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DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bly	Branch
574	15	0	mm	2,77		mm	,00	0,20	m	124	Pipe ASME B36.10 PI	L sch.40 Seamless API 5L Gr.B		0,25	
										N	/ Erection		Total Kg:	0,25	
SZ2	PIPING	BOM				VEST. 6	65V7 - 0			A A	AREA A	1 / 1	TOTAL Kg:	0,25	

LSH_65.7 LSL_65.7	Plant SZ2 PIPING BOM	Piping Class 124	Welding specification	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0		
65Y47	Line VEST. 65V7 - 0	Fluid	System			
65Y10	Dang. fluid type	Coating	De pres	Op tem		
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1		
1	Zones					