	]	DESM	ET - Ba	llestra					$\mathbf{S}$	KETC	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010
	PUMA	5		16/11/2	2010 9.43.	03							DOC:	1E35.65	5.1104			
		D	ESMET	- Ballestr	a						SABIZ	Size: mm Thk	: mm	Temp: °C		Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	T2		Len mn	n Qty	Um	Pip. class	s Component			G	en. Bolt	Weight (Kg)	As.bly	Branch
604	400	0	mm	3,0		mm	,00	0,30	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	60 B - UNI 7070	)			8,95		
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-From Plate Fe 360 B - UNI 7070	ATI-PF001(125	÷250AA	RH) 16	614			
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	- UNI 559	92 4.6		0,48		
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	001(125÷250AA	ARH) _ A	.9C				
											M Erection			ŗ	Total Kg:	9,43		
SZ3	DUCT =	> DN 40	00			62014	- 0			A	AREA A 1	1		ТО	TAL Kg:	9,43		

62Y23	Plant SZ3 DUCT => DN 400	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	Line 62014 - 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	allestra				S	KETCH	HES MATERIAL LIST	PRO	<b>J:</b> 1E.	35	<b>REV:</b> 0	16/11/201
	PUMA:	5		16/11/2	010 9.43.04						DOG	: 1E	35.65.1104	•	•
		D	ESMET	- Ballestra	l					SABIZ	Size: mm Thk: mm	Ten	np: °C	Pres: Bar(g)	Corr: mm
Mark	S1	S2		T1	Т2	Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg) A	s.bly Branc
576	25	0	mm	3,38	mm	,00	1,00	m	109	Pipe ASME B36.10 PL sch.40 Seamless	API 5L Gr.B			2,50	
583	500	0	mm	5,0	mm	,00	0,50	m	109	Pipe SB-ATI-PT003/0 PL Welded Fe 41	0-1 KW - UNI 5869			31,01	
599	1500	0	mm	6,0	mm	,00	7,00	m	109	Pipe SB-ATI-PT003/0 PL Welded Fe 41	0-1 KW - UNI 5869			1.572,22	
215	1500	0	mm		mm	,00	2,00	) NR	109	Flange Slip-On SB-ATI-PF001/0 * SB-A	ATI-PF001(125÷250)	AARH)	1593		
	· ·									From Plate Fe 510-C UNI 7070					
400	25	0	mm		mm	,00	3,00	) NR	109	Coupling SB-ATI-PR008/0 THRD-F N	PT 3000# Forged AS	TM A		0,90	
								_		105					
1593	M16	0	mm		mm	65,00	80,00	) NR	109	Stud Bolt + 2 Nuts SB-ATI-PV008B/0 A	ASME B18.2.1 UNC/	2.2		15,20	
										Tab.9 ASTM A 193 B7 / A 194 Gr.2H					
270	1500	0	mm		mm	,00	2,00	NR	109	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	001(125÷250AARH)	_ A9D			
										FLAT-RING					
									- 1	M Erection	·-		Total Kg:	1621,84	
SZ3	DUCT =:	> DN 40	00		64001	- 0			A A	AREA A 1 /	1		TOTAL Kg:	1621,84	

TET_64.10 TET_64.11	Plant SZ3 DUCT => DN 400	Piping Class 109		SB-ATI-SP006/0 SB-ATI- SP007/0
TET_64.1	<b>Line</b> 64001 - 0	Fluid	System	
64Y27	Dang. fluid type	Coating	De pres	Op tem
HV_64.1	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
N. 1 manhole DN500 Std. 46144	Zones			G

	I	DESM	ET - Ba	llestra					S	KETCH	HES MATERIAL LIST	PROJ	1E35	5	<b>REV:</b> 0	16/	/11/2010
	PUMA:	5		16/11/2	010 9.43.	.04	1					DOC:	1E35	5.65.1104	•		
		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			Gen. Bolt	Weight (Kg)	As.bly	Branch
576	25	0	mm	3,38		mm	,00	1,00	m	109	Pipe ASME B36.10 PL sch.40 Seamless	API 5L Gr.B			2,50		
583	500	0	mm	5,0		mm	,00	0,50	m	109	Pipe SB-ATI-PT003/0 PL Welded Fe 41	0-1 KW - UNI 5869			31,01		
599	1500	0	mm	6,0		mm	,00	3,50	m	109	Pipe SB-ATI-PT003/0 PL Welded Fe 41	0-1 KW - UNI 5869			786,11		
215	1500	0	mm			mm	,00	3,00	NR	109	Flange Slip-On SB-ATI-PF001/0 * SB-	ATI-PF001(125÷250A	ARH)	1593			
	<u>'</u>		'								From Plate Fe 510-C UNI 7070						
400	25	0	mm			mm	,00	2,00	NR	109	Coupling SB-ATI-PR008/0 THRD-F N	PT 3000# Forged AST	M A		0,60		
									,		105						
1593	M16	0	mm			mm	65,00	120,00	NR	109	Stud Bolt + 2 Nuts SB-ATI-PV008B/0 A	ASME B18.2.1 UNC/2.	2		22,80		
											Tab.9 ASTM A 193 B7 / A 194 Gr.2H						
270	1500	0	mm			mm	,00	3,00	NR	109	Gasket SB-ATI-PV009/1 * SB-ATI-PF0	001(125÷250AARH)_	A9D				
											FLAT-RING						
										N	M Erection	·-		Total Kg:	843,02		
SZ3	DUCT =:	> DN 40	00			64002	- 0			A A	AREA A 1	′ 1		TOTAL Kg:	843,02		

TI\_64.9 Piping Class 109 Welding specification SB-ATI-SP006/0 SB-ATI-Plant SZ3 DUCT => DN 400 SP007/0 TE\_64.2 Line 64002 - 0 HV\_64.2 Fluid System N. 1 manhole DN500 Std. 46144 Dang. fluid type Coating De pres Op tem 64Y3 Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

	I	DESME	T - Bal	llestra					S	KETCH	IES MATERIAL LIST		PROJ:	1E35		REV:	16	/11/2010
	PUMA:	5		16/11/2	010 9.43.	.04							DOC:	1E35	.65.1104	•	•	
		DE	SMET -	Ballestra	1						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
587	700	0	mm	6,0		mm	,00	45,00	m	109	Pipe SB-ATI-PT003/0 PL Welded Fe 41	0-1 KW - UNI	5869			4.694,03		
1149	700	0	mm			mm	,00	1,00	NR	109	Valve Butterfly SB-ATI-VB005/0 FLG PF001(125÷250AARH) Cast ASTM A 2		3 61		1589			
203	700	0	mm			mm	,00	2,00	NR	109	Flange Slip-On SB-ATI-PF001/0 * SB-A From Plate Fe 510-C UNI 7070	ATI-PF001(12:	5÷250AA	RH)	1589			
1200	700	0	mm	6,0		mm	,00	2,00	NR	109	90° Miter SB-ATI-PC003/0 BE Welded R=1.5 D	Fe 410-1 KW	- UNI 580	69		378,00		
1589	M12	0	mm			mm	55,00	32,00	NR	109	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	!		2,56		
258	700	0	mm			mm	,00	2,00	NR	109	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	01(125÷250A.	ARH) _ A	A9D				
										N	M Erection				Total Kg:	5074,59		
SZ3	DUCT =	> DN 400	)			64010	- 0			A A	AREA A 1 /	1		7	TOTAL Kg:	5074,59		

64Y37	Plant SZ3 DUCT => DN 400	Piping Class 109	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 64010 - 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 9.43.04		DOC:	1E35.65.1104		
DESM	IET - Ballestra	SABIZ	Size: mm Thk: mm	Temp: °C	Pres: Bar(g)	Corr: mm

Mark	S1	S2		T1	T2	Le	en mm	Qty	Um	Pip. class	Component		Gen. Bolt	Weight (Kg) As.bly	Branch
617	1100	0	mm	4,0	1	nm	,00	36,00	m	124	Pipe SB-ATI-PT002/0 PL Welde	d Fe 360 B - UNI 7070		3.952,31	
	·									N	Erection		Total Kg:	3952,31	
SZ3	DUCT =>	DN 400			6	4014 - 0				A A	REA A	1 / 1	TOTAL Kg:	3952,31	

	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification SB-A SP00	
	<b>Line</b> 64014 - 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	KETCH	IES MATERIAL LIST		PROJ:	1E35		REV:	0 1	6/11/2010
	PUMA:	5		16/11/2	010 9.43.	05							DOC:	1E35.6	5.1104			
		DE	SMET -	Ballestra	a						SABIZ	Size: mm T	hk: mm	Temp: °	С	Pres: Bar(g)		Corr: mm
											_							
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component				Gen. Bolt	Weight (K	g) As.bly	Branch
615	1000	0	mm	4,0		mm	,00	10,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	60 B - UNI 70	)70			1.048,1	5	
1228	1000	0	mm	4,0		mm	,00	2,00	NR	124	90° Miter SB-ATI-PC003/0 BE Welded	Fe 360 B - U	NI 7070 R	=1.5 D		487,20	)	
398	15	0	mm			mm	,00	1,00	NR	124	Coupling SB-ATI-PR008/0 THRD-F N	PT 3000# Fo	rged ASTM	1 A		0,1	2	
	,										105							
										N	1 Erection				Total Kg:	1535,4	7	

1 / 1

TOTAL Kg:

1535,47

AREA A

A

DUCT => DN 400

64015 - 0

64Y11 64Y12	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specificati	ion SB-ATI-SP006/0 SB-ATI- SP007/0
0.112	<b>Line</b> 64015 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1

	I	DESM	ET - Ba	llestra			SKETCHES MATERIAL LIST PROJ:					PROJ:	1E35		<b>REV:</b> 0	16	/11/2010	
	PUMA:	5		16/11/2	2010 9.43.	.05						]	DOC:	1E35.65	5.1104		•	
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk:	mm	Temp: °C		Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	T2		Len mn	n Qty	Un	Pip. class	Component			G	en. Bolt	Weight (Kg)	As.bly	Branch
597	1300	0	mm	6,0		mm	,00	0 4,00	m	109	Pipe SB-ATI-PT003/0 PL Welded Fe 41	0-1 KW - UNI 5	869			777,68		
213	1300	0	mm			mm	,00	2,00	NR	109	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-P	ATI-PF001(125÷	-250AAI	RH) 15	593			
400	25	0	mm			mm	,00	2,00	NR	109	Coupling SB-ATI-PR008/0 THRD-F N 105	PT 3000# Forge	d ASTM	I A		0,60		
1593	M16	0	mm			mm	65,00	64,00	NR	109	Stud Bolt + 2 Nuts SB-ATI-PV008B/0 A Tab.9 ASTM A 193 B7 / A 194 Gr.2H	ASME B18.2.1 U	JNC/2.2			12,16		
268	1300	0	mm			mm	,00	2,00	NR	109	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	001(125÷250AA	RH) _ A	.9D				
										]	M Erection			,	Total Kg:	790,44		
SZ3	DUCT =	> DN 40	00			64019	- 0			Α .	AREA A 1 /	1		то	TAL Kg:	790,44		

HV\_64.8 Piping Class 109 Welding specification SB-ATI-SP006/0 SB-ATI-Plant SZ3 DUCT => DN 400 TET\_64.10 TI\_64.8 64Y10 SP007/0 Line 64019 - 0 Fluid System Dang. fluid type Coating De pres Op tem 64Y2 Area AREA A Sketch Sht 1/1 Isometric code Page 1 Zones

DESMET - Ballestra		SKETCHES MATERIAL LIST	PROJ:	1E35	REV:	0	16/11/2010
PUMA5 16/11/2010 9.43	;		DOC:	1E35.65.1104			
DESMET - 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
606	500	0	mm	3,0	m	n ,00	2,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		74,72	
	·					·			N	M Erection	Total Kg:	74,72	
SZ3	DUCT =	> DN 400			64	029 - 0			A A	AREA A 1/1	TOTAL Kg:	74,72	

64Y16 64Y25	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 64029 - 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							S	KETC	HES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0	16	/11/2010	
	PUMA	5		16/11/2	2010 9.43.	05							DOC:	1E35.6	55.1104			
		D	ESMET	- Ballestr	a						SABIZ	Size: mm Thl	t: mm	Temp: °	С	Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	T2		Len mn	ı Qty	Um	Pip. class	s Component			(	Gen. Bolt	Weight (Kg)	As.bly	Branch
606	500	0	mm	3,0		mm	,00	2,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	0 B - UNI 707	C			74,72		
181	500	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-A From Plate Fe 360 B - UNI 7070	ATI-PF001(125	5÷250AA	RH) 1	1614			
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	+ UNI 55	92 4.6		0,48		
284	500	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	01(125÷250A	ARH) _ A	.9C				
											M Erection			'	Total Kg:	75,2		
SZ3	DUCT =	> DN 40	00			64030	- 0			A	AREA A 1 /	1		TO	OTAL Kg:	75,2		

64Y17 65Y56	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 64030 - 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		
	PUMA	5		16/11/2	010 9.43.	.05							DOC:	1E35.6	5.1104			
		D	ESMET	- Ballestra	a						SABIZ	Size: mm Thk	: mm	Temp: °C	C	Pres: Bar(g)	C	orr: mm
Mark	S1	S2		T1	Т2		Len mn	n Qty	Um	Pip. class	Component			C	Gen. Bolt	Weight (Kg)	As.bly	Branch
606	500	0	mm	3,0		mm	,00	1,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	60 B - UNI 7070	O			56,04		
181	500	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-P	ATI-PF001(125	5÷250AAl	RH) 1	614			
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 +	+ UNI 559	92 4.6		0,48		
284	500	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	001(125÷250AA	ARH) _ A	.9C				
											M Erection				Total Kg:	56,52		
SZ3	DUCT =	> DN 40	00			64031	- 0			A	AREA A 1	1		TC	TAL Kg:	56,52		

64Y32 64Y29	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 64031 - 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: 1						1E35		<b>REV:</b> 0	6/11/2010	
	PUMA5	5		16/11/2	010 9.43.	.05							DOC:	1E35.	65.1104		
		D	ESMET -	Ballestra	1						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.bl	Branch
621	1500	0	mm	5,0		mm	,00	25,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	60 B - UNI 707	0			4.682,32	
196	1500	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-P	ATI-PF001(12:	5÷250AA	RH)	1627		
1234	1500	0	mm	5,0		mm	,00	2,00	NR	124	90° Miter SB-ATI-PC003/0 BE Welded	Fe 360 B - UN	II 7070 R:	=1.5 D		1.349,90	
398	15	0	mm			mm	,00	3,00	NR	124	Coupling SB-ATI-PR008/0 THRD-F N	PT 3000# Forg	ed ASTN	I A		0,36	
400	25	0	mm			mm	,00	2,00	NR	124	Coupling SB-ATI-PR008/0 THRD-F N	PT 3000# Forg	ed ASTN	I A		0,60	
1627	M16	0	mm			mm	40,00	40,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727	+ UNI 55	92 4.6		6,40	
299	1500	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	001(125÷250A	ARH) _ A	.9C			
										N	M Erection				Total Kg:	6039,58	
SZ3	DUCT =>	> DN 40	00			64128	- 0			A A	AREA A 1	1		Т	OTAL Kg:	6039,58	

64Y4 64Y5	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
64Y200A	<b>Line</b> 64128 - 0	Fluid	System	
64Y200B	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: 11						1E35	REV: 0	16	5/11/2010
	PUMA	5		16/11/2	010 9.43.	06							DOC:	1E35.65.1104		•	
		DI	ESMET -	Ballestra	a						SABIZ	Size: mm Thk	: mm	Temp: °C	Pres: Bar(g)	(	Corr: mm
											_						
Mark	S1	S2		T1	<b>T2</b>		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg)	As.bly	Branch
605	450	0	mm	3,0		mm	,00	5,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	0 B - UNI 7070	)		168,01		
1218	450	0	mm	3,0		mm	,00	2,00	NR	124	90° Miter SB-ATI-PC003/0 BE Welded	Fe 360 B - UN	1 7070 R	=1.5 D	71,40		
398	15	0	mm			mm	,00	2,00	NR	124	Coupling SB-ATI-PR008/0 THRD-F N	PT 3000# Forgo	ed ASTM	I A	0,24		
							<u> </u>		•		105				1		
										N	1 Erection			Total Kg	: 239,65		

1 / 1

Α

AREA A

DUCT => DN 400

65027 - 0

65Y39 65Y11	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65027 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
J	Zones			

239,65

TOTAL Kg:

	J	DESM	ET - Ba	llestra	1				S	KETC	CHES MATERIAL LIST		PROJ:	1E35	REV:	0 16	6/11/2010
	PUMA	5		16/11/	/2010 9.43.06	í							DOC:	1E35.65.1104		•	
		D	ESMET -	Ballest	ra						SABIZ	Size: mm Thk	: mm	Temp: °C	Pres: Bar(g)	(	Corr: mm
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. clas	ss Component			Gen. Bo	lt Weight (Kg	) As.bly	Branch
606	500	0	mm	3,0	n	nm	,00	1,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	0 B - UNI 7070	)		37,36		
181	500	0	mm		m	nm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-P	ATI-PF001(125	÷250AAl	RH) 1614			
1614	M10	0	mm		m	nm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	0 - UNI 5727 +	UNI 559	92 4.6	0,48		
284	500	0	mm		m	nm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	01(125÷250AA	ARH) _ A	9C			
											M Erection			Total K	Kg: 37,84	l	
SZ3	DUCT => DN 400 65028 - 0					28 - 0 A AF				AREA A 1 /	1		TOTAL K	Kg: 37,84			

65Y44	Plant SZ3 DUCT => DN 400	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65028 - 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 16/11/201	10 9.43.06		DOC:	1E35.65.1104			
DESMET - Ballestra		SABIZ	Size: mm Thk: mm	Temp: °C P	res: Bar(g)		Corr: mm

Mark	S1	S2		T1	T2	Len mr	ı Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg) A	s.bly	Branch
606	500	0	mm	3,0	n	n ,0	1,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070	)	37,36		
				•		·			N	M Erection	Total Kg:	37,36		
SZ3	DUCT =:	> DN 400			65	035 - 0			A A	AREA A 1 / 1	TOTAL Kg:	37,36		

65Y47 65Y10	Plant SZ3 DUCT => DN 400	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65035 - 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	illestra	ı				S	KETCE	IES MATERIAL LIST	PROJ:	1E35		<b>REV:</b> 0	16/11/2010
	PUMA	5		16/11/	/2010 9.43	3.06	1					DOC:	1E35.6	55.1104		
		Ι	DESMET	- Ballest	ra						SABIZ	Size: mm Thk: mm	Temp:	°C	Pres: Bar(g)	Corr: mm
Mark	S1	S2		T1	Т2		Len mm	Qty	Um	Pip. class	Component			Gen. Bolt	Weight (Kg) As.b	ly Branch
604	400	0	mm	3,0		mm	,00	6,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 30	60 B - UNI 7070			193,98	
167	400	0	mm			mm	,00	2,00	NR	124	Flange Slip-On UNI 6082 PN 2.5 UNI 2 ASTM A 105	2229 (125÷250 AARH)	Forged	1639	31,60	
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-From Plate Fe 360 B - UNI 7070	ATI-PF001(125÷250AA	ARH)	1614		
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 + UNI 55	592 4.6		0,48	
1639	M20	0	mm			mm	70,00	32,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 + UNI 55	592 4.6		11,52	
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	001(125÷250AARH) _ A	A9C			
341	400	0	mm			mm	,00	2,00	NR	124	Gasket SB-ATI-PV009/1 PN 2.5 UNI 2	223/2229 _ B2C FLAT				
		•	'							N	M Erection		'	Total Kg:	237,58	
SZ3	DUCT => DN 400 65045 - 0					45 - 0 A AREA A 1 / 1					/ 1	T	OTAL Kg:	237,58		

KV_65.18 65Y17	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	<b>Line</b> 65045 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
!	Zones			

	]	DESME	ET - Ba	llestra					SI	KETCH	IES MATERIAL LIST	PROJ	: 1E35		<b>REV:</b> 0	6/11/2010
	PUMA	5		16/11/20	010 9.43.	.06						DOC:	1E35.	.65.1104		
		Dl	ESMET -	Ballestra	l						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
604	400	0	mm	3,0		mm	,00	8,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	60 B - UNI 7070			238,75	
167	400	0	mm			mm	,00	2,00	NR	124	Flange Slip-On UNI 6082 PN 2.5 UNI 2 ASTM A 105	2229 (125÷250 AARH)	Forged	1639	31,60	
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-P	ATI-PF001(125÷250AA	ARH)	1614		
1614	M10	0	mm			mm	30,00	12,00	NR :	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 + UNI 55	592 4.6		0,48	
1639	M20	0	mm			mm	70,00	32,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 + UNI 55	592 4.6		11,52	
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	001(125÷250AARH) _ A	A9C			
341	400	0	mm			mm	,00	2,00	NR :	124	Gasket SB-ATI-PV009/1 PN 2.5 UNI 2	223/2229 _ B2C FLAT				
	•	'			'					N	1 Erection			Total Kg:	282,35	
SZ3	DUCT => DN 400 65046					65046	46 - 0 A AREA				AREA A 1	/ 1	Т	TOTAL Kg:	282,35	

KV_65.21 65Y18	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification	n SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65046 - 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	ES MATERIAL LIST		PROJ:	1E35		<b>REV:</b> 0 1	6/11/2010
	PUMA	5		16/11/20	010 9.43.	06							DOC:	1E35.	65.1104	•	
		DI	ESMET -	Ballestra	1						SABIZ	Size: mm Thl	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
604	400	0	mm	3,0		mm	,00	6,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	0 B - UNI 707	0			193,98	
167	400	0	mm			mm	,00	2,00	NR	124	Flange Slip-On UNI 6082 PN 2.5 UNI 2 ASTM A 105	229 (125÷250	AARH) I	Forged	1639	31,60	
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-A From Plate Fe 360 B - UNI 7070	ATI-PF001(125	5÷250AA	RH)	1614		
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	+ UNI 55	92 4.6		0,48	
1639	M20	0	mm			mm	70,00	32,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 -	+ UNI 55	92 4.6		11,52	
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	01(125÷250A	ARH) _ A	\9C			
341	400	0	mm			mm	,00	2,00	NR	124	Gasket SB-ATI-PV009/1 PN 2.5 UNI 22	223/2229 _ B20	C FLAT				
	1	,	'	1	1	1				N	I Erection				Total Kg:	237,58	
SZ3	DUCT => DN 400 65070 - 0					- 0 A AREA A 1/1					Т	OTAL Kg:	237,58				

KV_65.19 65Y19	Plant SZ3 DUCT => DN 400	Piping Class 124		SB-ATI-SP006/0 SB-ATI- SP007/0
	<b>Line</b> 65070 - 0	Fluid	System	
	Dang. fluid type	Coating	De pres	Op tem
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1
1	Zones			

	]	DESM	ET - Ba	llestra					SI	KETCH	IES MATERIAL LIST	PROJ:	: 1E35		<b>REV:</b> 0 1	6/11/2010
	PUMA	5		16/11/2	010 9.43.	.07						DOC:	1E35.	65.1104		
		D	ESMET -	Ballestra	ì						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
604	400	0	mm	3,0		mm	,00	8,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 36	60 B - UNI 7070			238,75	
167	400	0	mm			mm	,00	2,00	NR	124	Flange Slip-On UNI 6082 PN 2.5 UNI 2 ASTM A 105	2229 (125÷250 AARH)	Forged	1639	31,60	
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-P	ATI-PF001(125÷250AA	ARH)	1614		
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 + UNI 55	592 4.6		0,48	
1639	M20	0	mm			mm	70,00	32,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A UNI 3740 + 4A UNI 3740	/0 - UNI 5727 + UNI 55	592 4.6		11,52	
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF0 FLAT-RING	001(125÷250AARH) _ A	A9C			
341	400	0	mm			mm	,00	2,00	NR	124	Gasket SB-ATI-PV009/1 PN 2.5 UNI 2	223/2229 _ B2C FLAT				
	•	,			'				, ,	N	1 Erection			Total Kg:	282,35	
SZ3	DUCT => DN 400 65071 - 0					0 A AREA A 1/1					Т	OTAL Kg:	282,35			

KV_65.20 65Y20	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0	
	<b>Line</b> 65071 - 0	Fluid	System		
	Dang. fluid type	Coating	De pres	Op tem	
	Area AREA A	Sketch Sht 1/1	Isometric code	Page 1	
•	Zones				