

DESMET - Ballestra								SKETCHES MATERIAL LIST							PROJ:		1E35		REV:	0	16/11/2010			
PUMA5				16/11/2010 9.43.03											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									
604	400	0	mm	3,0		mm	,00	0,30	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		8,95											
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070	1614												
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,48											
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING													
M Erection													Total Kg:		9,43									
SZ3	DUCT => DN 400			62014 - 0			A		AREA A		1 / 1		TOTAL Kg:		9,43									

62Y23	Plant	SZ3 DUCT => DN 400	Piping Class	124	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	Line	62014 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	
	Area	AREA A	Sketch Sht	1 / 1	Isometric code	
	Zones					

Op tem

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DESMET - Ballestra								SKETCHES MATERIAL LIST								PROJ:		IE35		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.04												DOC:		IE35.65.1104							
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										
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 410-1 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 410-1 KW - UNI 5869		1.572,22												
215	1500	0	mm			mm	,00	2,00	NR	109	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 510-C UNI 7070	1593													
400	25	0	mm			mm	,00	3,00	NR	109	Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105		0,90												
1593	M16	0	mm			mm	65,00	80,00	NR	109	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		15,20												
270	1500	0	mm			mm	,00	2,00	NR	109	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9D FLAT-RING														
M Erection												Total Kg:		1621,84											
SZ3	DUCT => DN 400				64001 - 0				A	AREA A		1 / 1		TOTAL Kg:		1621,84									

TET_64.10 TET_64.11 TET_64.1 64Y27 HV_64.1 N. 1 manhole DN500 Std. 46144	Plant SZ3 DUCT => DN 400  Line 64001 - 0 Dang. fluid type Area AREA A Zones	Piping Class 109  Fluid Coating Sketch Sht 1 / 1	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0  System De pres Isometric code	Op tem   Page 1
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DESMET - Ballestra								SKETCHES MATERIAL LIST							PROJ:		IE35		REV:	0	16/11/2010			
PUMA5			16/11/2010 9.43.04												DOC:		IE35.65.1104							
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									
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 410-1 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 410-1 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÷250AARH) From Plate Fe 510-C UNI 7070	1593												
400	25	0	mm			mm	,00	2,00	NR	109	Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105		0,60											
1593	M16	0	mm			mm	65,00	120,00	NR	109	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		22,80											
270	1500	0	mm			mm	,00	3,00	NR	109	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9D FLAT-RING													
M Erection												Total Kg:		843,02										
SZ3	DUCT => DN 400			64002 - 0			A		AREA A		1 / 1		TOTAL Kg:		843,02									

TI_64.9	Plant SZ3 DUCT => DN 400	Piping Class 109	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0
TE_64.2	Line 64002 - 0	Fluid	System
HV_64.2	Dang. fluid type	Coating	De pres
N. 1 manhole DN500 Std. 46144	Area AREA A	Sketch Sht 1 / 1	Isometric code
64Y3	Zones		Op tem
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DESMET - Ballestra								SKETCHES MATERIAL LIST							PROJ:	1E35	REV:	0	16/11/2010
PUMA5				16/11/2010 9.43.04											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				
587	700	0	mm	6,0		mm	,00	45,00	m	109	Pipe SB-ATI-PT003/0 PL Welded Fe 410-1 KW - UNI 5869		4.694,03						
1149	700	0	mm			mm	,00	1,00	NR	109	Valve Butterfly SB-ATI-VB005/0 FLG * SB-ATI-PF001(125÷250AARH) Cast ASTM A 216 Gr. WCB B 61	1589							
203	700	0	mm			mm	,00	2,00	NR	109	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 510-C UNI 7070	1589							
1200	700	0	mm	6,0		mm	,00	2,00	NR	109	90° Miter SB-ATI-PC003/0 BE Welded Fe 410-1 KW - UNI 5869 R=1.5 D		378,00						
1589	M12	0	mm			mm	55,00	32,00	NR	109	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		2,56						
258	700	0	mm			mm	,00	2,00	NR	109	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9D FLAT-RING								
M Erection													Total Kg:	5074,59					
SZ3	DUCT => DN 400				64010 - 0				A	AREA A		1 / 1	TOTAL Kg:	5074,59					

64Y37	Plant SZ3 DUCT => DN 400	Piping Class 109	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0
	Line 64010 - 0	Fluid	System
	Dang. fluid type	Coating	De pres
	Area AREA A	Sketch Sht 1 / 1	Isometric code
	Zones		Op tem

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DESMET - Ballestra							SKETCHES MATERIAL LIST						PROJ:		IE35		REV:		0		16/11/2010	
PUMA5			16/11/2010 9.43.04										DOC:		IE35.65.1104							
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							
617	1100	0	mm	4,0		mm	,00	36,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		3.952,31									
M Erection													Total Kg:	3952,31								
SZ3	DUCT => DN 400			64014 - 0			A		AREA A		1 / 1		TOTAL Kg:	3952,31								

	Plant	SZ3 DUCT => DN 400	Piping Class	124	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	Line	64014 - 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		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.05									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							
615	1000	0	mm	4,0		mm	,00	10,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		1.048,15									
1228	1000	0	mm	4,0		mm	,00	2,00	NR	124	90° Miter SB-ATI-PC003/0 BE Welded Fe 360 B - UNI 7070 R=1.5 D		487,20									
398	15	0	mm			mm	,00	1,00	NR	124	Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105		0,12									
M Erection													Total Kg:		1535,47							
SZ3	DUCT => DN 400						64015 - 0			A	AREA A		1 / 1		TOTAL Kg:		1535,47					

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

DESMET - Ballestra								SKETCHES MATERIAL LIST							PROJ:		IE35		REV:		0	16/11/2010		
PUMA5				16/11/2010 9.43.05											DOC:		IE35.65.1104							
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									
597	1300	0	mm	6,0		mm	,00	4,00	m	109	Pipe SB-ATI-PT003/0 PL Welded Fe 410-1 KW - UNI 5869		777,68											
213	1300	0	mm			mm	,00	2,00	NR	109	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 510-C UNI 7070	1593												
400	25	0	mm			mm	,00	2,00	NR	109	Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105		0,60											
1593	M16	0	mm			mm	65,00	64,00	NR	109	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		12,16											
268	1300	0	mm			mm	,00	2,00	NR	109	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9D FLAT-RING													
M Erection													Total Kg:		790,44									
SZ3	DUCT => DN 400				64019 - 0				A	AREA A		1 / 1		TOTAL Kg:		790,44								

HV\_64.8  
TET\_64.10  
TI\_64.8  
64Y10  
64Y2

Plant SZ3 DUCT => DN 400  
  
Line 64019 - 0  
Dang. fluid type  
Area AREA A  
Zones

Piping Class 109  
  
Fluid  
Coating  
Sketch Sht 1 / 1

Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0  
  
System  
De pres  
Isometric code  
  
Op tem  
  
Page 1

DESMET - Ballestra							SKETCHES MATERIAL LIST						PROJ:		1E35		REV:	0	16/11/2010			
PUMA5			16/11/2010 9.43.05										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		mm	,00	2,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070							74,72				
M Erection																Total Kg:		74,72				
SZ3	DUCT => DN 400				64029 - 0				A		AREA A				1 / 1		TOTAL Kg:		74,72			

64Y16	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0
64Y25	Line 64029 - 0	Fluid	System
	Dang. fluid type	Coating	De pres
	Area AREA A	Sketch Sht 1 / 1	Op tem
	Zones		Isometric code
			Page 1



DESMET - Ballestra								SKETCHES MATERIAL LIST						PROJ:		1E35		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.05										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		mm	,00	2,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		74,72										
181	500	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070	1614											
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,48										
284	500	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING												
M Erection												Total Kg:		75,2									
SZ3	DUCT => DN 400					64030 - 0					A	AREA A	1 / 1		TOTAL Kg:		75,2						

64Y17 65Y56	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0
	Line 64030 - 0	Fluid	System
	Dang. fluid type	Coating	De pres
	Area AREA A	Sketch Sht 1 / 1	Isometric code
	Zones		Op tem
			Page 1

DESMET - Ballestra								SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.05											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		mm	,00	1,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		56,04											
181	500	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070	1614												
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,48											
284	500	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING													
M Erection													Total Kg:		56,52									
SZ3	DUCT => DN 400				64031 - 0				A		AREA A		1 / 1		TOTAL Kg:		56,52							

64Y32	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0
64Y29	Line 64031 - 0	Fluid	System
	Dang. fluid type	Coating	De pres
	Area AREA A	Sketch Sht 1 / 1	Isometric code
	Zones		Op tem
			Page 1

DESMET - Ballestra								SKETCHES MATERIAL LIST						PROJ:		1E35		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.05										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								
621	1500	0	mm	5,0		mm	,00	25,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		4.682,32										
196	1500	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070	1627											
1234	1500	0	mm	5,0		mm	,00	2,00	NR	124	90° Miter SB-ATI-PC003/0 BE Welded Fe 360 B - UNI 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 NPT 3000# Forged ASTM A 105		0,36										
400	25	0	mm			mm	,00	2,00	NR	124	Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105		0,60										
1627	M16	0	mm			mm	40,00	40,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		6,40										
299	1500	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING												
M Erection												Total Kg:		6039,58									
SZ3	DUCT => DN 400				64128 - 0				A	AREA A		1 / 1		TOTAL Kg:		6039,58							

64Y4	Plant SZ3 DUCT => DN 400  Line 64128 - 0 Dang. fluid type Area AREA A Zones	Piping Class 124  Fluid Coating Sketch Sht 1 / 1	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0  System De pres Isometric code	Op tem   Page 1
64Y5				
64Y200A				
64Y200B				

DESMET - Ballestra								SKETCHES MATERIAL LIST					PROJ:		1E35		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.06									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							
605	450	0	mm	3,0		mm	,00	5,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 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 - UNI 7070 R=1.5 D		71,40									
398	15	0	mm			mm	,00	2,00	NR	124	Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105		0,24									
M Erection												Total Kg:		239,65								
SZ3	DUCT => DN 400						65027 - 0				A	AREA A	1 / 1		TOTAL Kg:		239,65					

65Y39	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0
65Y11	Line 65027 - 0	Fluid	System
	Dang. fluid type	Coating	De pres
	Area AREA A	Sketch Sht 1 / 1	Isometric code
	Zones		Op tem
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DESMET - Ballestra								SKETCHES MATERIAL LIST								PROJ:		1E35		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.06												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		mm	,00	1,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		37,36												
181	500	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070	1614													
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,48												
284	500	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING														
M Erection													Total Kg:		37,84										
SZ3	DUCT => DN 400				65028 - 0				A		AREA A		1 / 1		TOTAL Kg:		37,84								

65Y44	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0
	Line 65028 - 0	Fluid	System
	Dang. fluid type	Coating	De pres
	Area AREA A	Sketch Sht 1 / 1	Op tem
	Zones		Isometric code
			Page 1

DESMET - Ballestra								SKETCHES MATERIAL LIST										PROJ:		1E35		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.06														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		mm	,00	1,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070											37,36					
M Erection																	Total Kg:		37,36								
SZ3	DUCT => DN 400						65035 - 0				A	AREA A				1 / 1		TOTAL Kg:		37,36							

65Y47	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0
65Y10	Line 65035 - 0	Fluid	System
	Dang. fluid type	Coating	De pres
	Area AREA A	Sketch Sht 1 / 1	Op tem
	Zones		Isometric code
			Page 1

DESMET - Ballestra								SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0	16/11/2010		
PUMA5				16/11/2010 9.43.06											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									
604	400	0	mm	3,0		mm	,00	6,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		193,98											
167	400	0	mm			mm	,00	2,00	NR	124	Flange Slip-On UNI 6082 PN 2.5 UNI 2229 (125÷250 AARH) Forged ASTM A 105	1639	31,60											
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070	1614												
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,48											
1639	M20	0	mm			mm	70,00	32,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		11,52											
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING													
341	400	0	mm			mm	,00	2,00	NR	124	Gasket SB-ATI-PV009/1 PN 2.5 UNI 2223/2229 _ B2C FLAT													
M Erection												Total Kg:		237,58										
SZ3	DUCT => DN 400				65045 - 0				A	AREA A		1 / 1		TOTAL 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
	Line	65045 - 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		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.06												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										
604	400	0	mm	3,0		mm	,00	8,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		238,75												
167	400	0	mm			mm	,00	2,00	NR	124	Flange Slip-On UNI 6082 PN 2.5 UNI 2229 (125÷250 AARH) Forged ASTM A 105	1639	31,60												
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070	1614													
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,48												
1639	M20	0	mm			mm	70,00	32,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		11,52												
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING														
341	400	0	mm			mm	,00	2,00	NR	124	Gasket SB-ATI-PV009/1 PN 2.5 UNI 2223/2229 _ B2C FLAT														
M Erection												Total Kg:		282,35											
SZ3	DUCT => DN 400				65046 - 0				A	AREA A		1 / 1		TOTAL Kg:		282,35									

KV_65.21 65Y18	Plant SZ3 DUCT => DN 400	Piping Class 124	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0		
	Line 65046 - 0	Fluid	System		
	Dang. fluid type	Coating	De pres		
	Area AREA A	Sketch Sht 1 / 1	Isometric code		
	Zones		Op tem		

Page 1



DESMET - Ballestra								SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		16/11/2010	
PUMA5				16/11/2010 9.43.06											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									
604	400	0	mm	3,0		mm	,00	6,50	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070		193,98											
167	400	0	mm			mm	,00	2,00	NR	124	Flange Slip-On UNI 6082 PN 2.5 UNI 2229 (125÷250 AARH) Forged ASTM A 105	1639	31,60											
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070	1614												
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,48											
1639	M20	0	mm			mm	70,00	32,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		11,52											
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING													
341	400	0	mm			mm	,00	2,00	NR	124	Gasket SB-ATI-PV009/1 PN 2.5 UNI 2223/2229 _ B2C FLAT													
M Erection												Total Kg:		237,58										
SZ3	DUCT => DN 400				65070 - 0				A	AREA A		1 / 1		TOTAL Kg:		237,58								

KV_65.19 65Y19	Plant	SZ3 DUCT => DN 400	Piping Class	124	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	Line	65070 - 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		REV:		0	16/11/2010		
PUMA5				16/11/2010 9.43.07											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							
604	400	0	mm	3,0		mm	,00	8,00	m	124	Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070			238,75										
167	400	0	mm			mm	,00	2,00	NR	124	Flange Slip-On UNI 6082 PN 2.5 UNI 2229 (125÷250 AARH) Forged ASTM A 105		1639	31,60										
179	400	0	mm			mm	,00	1,00	NR	124	Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070		1614											
1614	M10	0	mm			mm	30,00	12,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740			0,48										
1639	M20	0	mm			mm	70,00	32,00	NR	124	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740			11,52										
282	400	0	mm			mm	,00	1,00	NR	124	Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING													
341	400	0	mm			mm	,00	2,00	NR	124	Gasket SB-ATI-PV009/1 PN 2.5 UNI 2223/2229 _ B2C FLAT													
M Erection													Total Kg:		282,35									
SZ3	DUCT => DN 400				65071 - 0				A	AREA A		1 / 1		TOTAL Kg:		282,35								

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