

DESMET - Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5			13/04/2010 11.20.04											DOC:		1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77							Size: mm		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch								
760	200	0	mm	3,0		mm	,00	16,00	m	164	Pipe SB-ATI-PT005/0 PL Welded ASTM A 240 Gr. TP304		261,00										
156	200	0	mm			mm	,00	1,00	NR	164	Flange Lap-Joint SB-ATI-PF012/0 * SB-ATI-PF012 FF Smooth From Plate Fe 360 B - UNI 7070	1943											
527	200	0	mm	3,0		mm	,00	1,00	NR	164	Stub-End SB-ATI-PF009/0 BE * From Plate ASTM A 240 Gr. TP304												
1942	M10	0	mm			mm	30,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
1943	M10	0	mm			mm	35,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
313	200	0	mm			mm	,00	1,00	NR	164	Gasket SB-ATI-PV009/1 * SB-ATI-PF012 FF Smooth _ A9C												
M Erection													Total Kg:		261,32								
SX1	SLS - SECT. 77 - PRO				77016 - 0				SL1	SABIZ PLANT				1 / 1		TOTAL Kg:		261,32					

77Y1	Plant	SX1 SLS - SECT. 77 - PRO	Piping Class	164	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	Line	77016 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area	SABIZ PLANT	Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

DESMET - Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5				13/04/2010 11.20.04										DOC:		1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77							Size: mm		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch								
760	200	0	mm	3,0		mm	,00	0,50	m	164	Pipe SB-ATI-PT005/0 PL Welded ASTM A 240 Gr. TP304		8,16										
156	200	0	mm			mm	,00	1,00	NR	164	Flange Lap-Joint SB-ATI-PF012/0 * SB-ATI-PF012 FF Smooth From Plate Fe 360 B - UNI 7070	1943											
527	200	0	mm	3,0		mm	,00	1,00	NR	164	Stub-End SB-ATI-PF009/0 BE * From Plate ASTM A 240 Gr. TP304												
1942	M10	0	mm			mm	30,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
1943	M10	0	mm			mm	35,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
313	200	0	mm			mm	,00	1,00	NR	164	Gasket SB-ATI-PV009/1 * SB-ATI-PF012 FF Smooth _ A9C												
M Erection													Total Kg:		8,48								
SX1	SLS - SECT. 77 - PRO					77017 - 0					SL1	SABIZ PLANT			1 / 1			TOTAL Kg:		8,48			

	Plant	SX1 SLS - SECT. 77 - PRO				Piping Class	164				Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0					
	Line	77017 - 0				Fluid					System						
	Dang. fluid type					Coating					De pres						
	Area	SABIZ PLANT				Sketch Sht	1 / 1				Isometric code						
	Zones																

DESMET - Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5			13/04/2010 11.20.04											DOC:		1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77							Size: mm		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch								
1942	M10	0	mm			mm	30,00	1,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,04										
M Erection												Total Kg:		0,04									
SX1	SLS - SECT. 77 - PRO				77024 - 0				SL1	SABIZ PLANT			1 / 1		TOTAL Kg:		0,04						

FOR TAKE-OFF MATERIAL SEE DWG. NR. 1E35-60-030	Plant	SX1 SLS - SECT. 77 - PRO	Piping Class	164	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	Line	77024 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area	SABIZ PLANT	Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

DESMET - Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5				13/04/2010 11.20.04										DOC:		1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77							Size: mm		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch								
762	300	0	mm	3,0		mm	,00	7,00	m	164	Pipe SB-ATI-PT005/0 PL Welded ASTM A 240 Gr. TP304		169,51										
158	300	0	mm			mm	,00	1,00	NR	164	Flange Lap-Joint SB-ATI-PF012/0 * SB-ATI-PF012 FF Smooth From Plate Fe 360 B - UNI 7070	1943											
529	300	0	mm	3,0		mm	,00	1,00	NR	164	Stub-End SB-ATI-PF009/0 BE * From Plate ASTM A 240 Gr. TP304												
1942	M10	0	mm			mm	30,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
1943	M10	0	mm			mm	35,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
315	300	0	mm			mm	,00	1,00	NR	164	Gasket SB-ATI-PV009/1 * SB-ATI-PF012 FF Smooth _ A9C												
M Erection													Total Kg:		169,83								
SX1	SLS - SECT. 77 - PRO					77025 - 0					SL1	SABIZ PLANT			1 / 1			TOTAL Kg:		169,83			

77Y15	Plant SX1 SLS - SECT. 77 - PRO Line 77025 - 0 Dang. fluid type Area SABIZ PLANT Zones	Piping Class 164 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
77Y18					

DESMET - Ballestra							SKETCHES MATERIAL LIST						PROJ:		1E35		REV:		0		13/04/2010	
PUMA5			13/04/2010 11.20.04										DOC:		1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77						Size: mm		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component						Gen. Bolt	Weight (Kg)		As.bly	Branch	
759	150	0	mm	3,0		mm	,00	13,00	m	164	Pipe SB-ATI-PT005/0 PL Welded ASTM A 240 Gr. TP304							162,21				
M Erection												Total Kg:		162,21								
SX1	SLS - SECT. 77 - PRO					77026 - 0					SL1	SABIZ PLANT					1 / 1		TOTAL Kg:		162,21	

77Y16	Plant SX1	SLS - SECT. 77 - PRO	Piping Class	164	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
77Y19	Line	77026 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area	SABIZ PLANT	Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

DESMET - Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5			13/04/2010 11.20.04											DOC:		1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77							Size: mm		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch								
1942	M10	0	mm			mm	30,00	1,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,04										
M Erection												Total Kg:		0,04									
SX1	SLS - SECT. 77 - PRO				77027 - 0				SL1	SABIZ PLANT			1 / 1		TOTAL Kg:		0,04						

FOR TAKE-OFF MATERIAL SEE DWG. NR. 1E35-60-030	Plant	SX1 SLS - SECT. 77 - PRO	Piping Class	164	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	Line	77027 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area	SABIZ PLANT	Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

DESMET - Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5				13/04/2010 11.20.04										DOC:		1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77							Size: mm		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch								
760	200	0	mm	3,0		mm	,00	10,00	m	164	Pipe SB-ATI-PT005/0 PL Welded ASTM A 240 Gr. TP304		163,13										
156	200	0	mm			mm	,00	1,00	NR	164	Flange Lap-Joint SB-ATI-PF012/0 * SB-ATI-PF012 FF Smooth From Plate Fe 360 B - UNI 7070	1943											
527	200	0	mm	3,0		mm	,00	1,00	NR	164	Stub-End SB-ATI-PF009/0 BE * From Plate ASTM A 240 Gr. TP304												
1942	M10	0	mm			mm	30,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
1943	M10	0	mm			mm	35,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
313	200	0	mm			mm	,00	1,00	NR	164	Gasket SB-ATI-PV009/1 * SB-ATI-PF012 FF Smooth _ A9C												
M Erection													Total Kg:		163,45								
SX1	SLS - SECT. 77 - PRO					77029 - 0					SL1	SABIZ PLANT			1 / 1		TOTAL Kg:		163,45				

	Plant	SX1 SLS - SECT. 77 - PRO				Piping Class	164				Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0					
	Line	77029 - 0				Fluid					System						
	Dang. fluid type					Coating					De pres						
	Area	SABIZ PLANT				Sketch Sht	1 / 1				Isometric code						
	Zones																

DESMET - Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5			13/04/2010 11.20.05											DOC:		1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77							Size: mm		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component						Gen. Bolt	Weight (Kg)		As.bly	Branch		
1942	M10	0	mm			mm	30,00	1,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740							0,04					
M Erection															Total Kg:		0,04						
SX1	SLS - SECT. 77 - PRO					77030 - 0					SL1	SABIZ PLANT					1 / 1		TOTAL Kg:		0,04		

FOR TAKE-OFF MATERIAL SEE DWG. NR. 1E35-60-030	Plant	SX1 SLS - SECT. 77 - PRO	Piping Class	164	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	Line	77030 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area	SABIZ PLANT	Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

DESMET - Ballestra							SKETCHES MATERIAL LIST							PROJ: 1E35		REV: 0		13/04/2010			
PUMA5			13/04/2010 11.20.05											DOC: 1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77							Size: mm Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component					Gen. Bolt	Weight (Kg)	As.bly	Branch		
1942	M10	0	mm			mm	30,00	1,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740						0,04				
M Erection															Total Kg:		0,04				
SX1	SLS - SECT. 77 - PRO				77031 - 0				SL1		SABIZ PLANT				1 / 1		TOTAL Kg:		0,04		

FOR TAKE-OFF MATERIAL SEE DWG. NR. 1E35-60-030	Plant	SX1 SLS - SECT. 77 - PRO	Piping Class	164	Welding specification	SB-ATI-SP006/0 SB-ATI-SP007/0
	Line	77031 - 0	Fluid		System	
	Dang. fluid type		Coating		De pres	Op tem
	Area	SABIZ PLANT	Sketch Sht	1 / 1	Isometric code	Page 1
	Zones					

DESMET - Ballestra							SKETCHES MATERIAL LIST							PROJ:		1E35		REV:		0		13/04/2010	
PUMA5				13/04/2010 11.20.05										DOC:		1E35-65-020							
DESMET - Ballestra							SLS - SECT. 77							Size: mm		Thk: mm		Temp: °C		Pres: BAR		Corr: mm	
Mark	S1	S2		T1	T2		Len mm	Qty	Um	Pip. class	Component	Gen. Bolt	Weight (Kg)	As.bly	Branch								
762	300	0	mm	3,0		mm	,00	4,00	m	164	Pipe SB-ATI-PT005/0 PL Welded ASTM A 240 Gr. TP304		96,86										
158	300	0	mm			mm	,00	1,00	NR	164	Flange Lap-Joint SB-ATI-PF012/0 * SB-ATI-PF012 FF Smooth From Plate Fe 360 B - UNI 7070	1943											
529	300	0	mm	3,0		mm	,00	1,00	NR	164	Stub-End SB-ATI-PF009/0 BE * From Plate ASTM A 240 Gr. TP304												
1942	M10	0	mm			mm	30,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
1943	M10	0	mm			mm	35,00	4,00	NR	164	Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740		0,16										
315	300	0	mm			mm	,00	1,00	NR	164	Gasket SB-ATI-PV009/1 * SB-ATI-PF012 FF Smooth _ A9C												
M Erection													Total Kg:		97,18								
SX1	SLS - SECT. 77 - PRO						77032 - 0		SL1	SABIZ PLANT			1 / 1		TOTAL Kg:		97,18						

77Y17 77Y20	Plant SX1 SLS - SECT. 77 - PRO	Piping Class 164	Welding specification SB-ATI-SP006/0 SB-ATI-SP007/0
	Line 77032 - 0	Fluid	System
	Dang. fluid type	Coating	De pres
	Area SABIZ PLANT	Sketch Sht 1 / 1	Isometric code
	Zones		Op tem
			Page 1