

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	15/11/2010
PUMA5	15/11/2010 15.33.23		DOC:	1E35-65-1105			

PUMA5	Material Request - Summary (1)	15/11/2010 15.33.23
1E35 - SABIZ		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P95 / 1E35.65.1105	0101 / CARBON STEEL PIPE	1010	1E35.65.1105	1

Mark	S1	S2	T1.	T2	Len. mm	P.L.	U.m	Take Off	Surplus	ACTUAL Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)
Pipe ASME B36.10 BE E.R.W. API 5L Gr.B															
544	mm	80	0	mm	3,18	0	P1	m	20,00	2,00	22,00	147,89	22,00		
545	mm	100	0	mm	3,18	0	P1	m	67,00	7,00	74,00	644,83		74,00	644,83
546	mm	125	0	mm	3,96	0	P1	m	201,00	10,00	211,00	2.829,88	214,00	-3,00	-40,24
547	mm	150	0	mm	3,96	0	P1	m	313,50	16,00	329,50	5.287,94	242,50	87,00	1.396,21
TOTAL FOR COMPONENT (Kg)												8.910,54			2.000,80
												Total for negative movement - 40,24	Total for positive movement +		2.041,04

Pipe ASME B36.10 PL Seamless ASTM A 106 Gr. B

553	mm	15	0	mm	2,77	0	P1	m	,30		,30	,38	,30		
555	mm	25	0	mm	3,38	0	P1	m	3,00		3,00	7,51	3,00		
557	mm	40	0	mm	3,68	0	P1	m					1,00	-1,00	-4,05
558	mm	50	0	mm	3,91	0	P1	m	,50		,50	2,72	,50		
561	mm	100	0	mm	6,02	0	P1	m	28,00	3,00	31,00	498,31	45,00	-14,00	-225,04
563	mm	150	0	mm	10,97	0	P1	m	37,00	4,00	41,00	1.745,00	34,50	6,50	276,65
TOTAL FOR COMPONENT (Kg)												2.253,91			47,55
												Total for negative movement - 229,09	Total for positive movement +		276,65

Pipe ASME B36.10 PL E.R.W. API 5L Gr.B

565	mm	80	0	mm	3,18	0	P1	m	31,00	3,00	34,00	228,55	46,00	-12,00	-80,66
566	mm	100	0	mm	3,18	0	P1	m	2,00		2,00	17,43	1,00	1,00	8,71
568	mm	150	0	mm	3,96	0	P1	m	25,50	3,00	28,50	457,38	9,00	19,50	312,94
TOTAL FOR COMPONENT (Kg)												703,36			240,99
												Total for negative movement - 80,66	Total for positive movement +		321,66

PUMA5	Material Request - Summary (1)	15/11/2010 15.33.23
1E35 - SABIZ		

SubProject		Category of Good								MR ID		MR Number		MR Rev		
P95 / 1E35.65.1105		0101 / CARBON STEEL PIPE								1010		1E35.65.1105		1		
Mark	S1	S2	T1.	T2	Len. mm	P.L.	U.m	Take Off	Surplus	ACTUAL Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)	
Pipe ASME B36.10 PL sch.40 Seamless API 5L Gr.B																
574	mm	15	0	mm	2,77	0	P1	m	3,20			3,20	4,05	3,20		
TOTAL FOR COMPONENT (Kg)												4,05				
Total for negative movement												-		Total for positive movement	+	
Pipe SB-ATI-PT002/0 PL Welded Fe 360 B - UNI 7070																
600	mm	200	0	mm	3,0	0	P1	m	39,00	4,00		43,00	687,44	12,00	31,00	495,60
602	mm	300	0	mm	3,0	0	P1	m	10,50	1,00		11,50	272,93	4,50	7,00	166,13
TOTAL FOR COMPONENT (Kg)												960,37			661,73	
Total for negative movement												-		Total for positive movement	+	661,73
TOTAL MR (Kg)													12.832,23		2.951,08	
Total for negative movement												-	349,99	Total for positive movement	+	3.301,07

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	0	22/09/2010
PUMA5	22/09/2010 10.00.39		DOC:	1E35-65-1105			

PUMA5	Material Request - Summary (1)	22/09/2010 10.00.39
1E35 - SABIZ		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P95 / 1E35.65.1105	0201 / CARBON STEEL FORGED FITTINGS	1040	1E35.65.1105	0

Mark	S1	S2	T1.	T2	Len.			Take Off	Surplus	ACTUAL			PREVIOUS	NEED		
					mm	P.L.	U.m			Manual	Tot Qty	Tot. W. (Kg)		Qty	Quantity	Weight (Kg)
Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105																
398	mm	15	0	mm	0	P1	NR	2,00			2,00	,24		2,00	,24	
		TOTAL FOR COMPONENT (Kg)									,24				,24	
								Total for negative movement -				Total for positive movement +			,24	
		TOTAL MR (Kg)									,24				,24	
Total for negative movement -									Total for positive movement +			,24				

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	15/11/2010
PUMA5	15/11/2010 15.35.36		DOC:	1E35-65-1105			

PUMA5	Material Request - Summary (1)	15/11/2010 15.35.36
1E35 - SABIZ		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P95 / 1E35.65.1105	0301 / CARBON STEEL BW FITTINGS	1070	1E35.65.1105	1

Mark	S1	S2	T1.	T2	Len. mm	P.L.	U.m	Take Off	Surplus	ACTUAL Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
45° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 Gr. WPB															
24	mm	80	0	mm	3,18	0	P1 NR	1,00			1,00	,60		1,00	,60
27	mm	150	0	mm	3,96	0	P1 NR	5,00	1,00		6,00	17,11	1,00	5,00	14,26
TOTAL FOR COMPONENT (Kg)												17,71			14,86
								Total for negative movement -					Total for positive movement +		14,86

90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 Gr. WPB															
58	mm	80	0	mm	3,18	0	P1 NR	4,00	1,00		5,00	5,88	1,00	4,00	4,71
59	mm	100	0	mm	3,18	0	P1 NR	1,00			1,00	2,07		1,00	2,07
61	mm	150	0	mm	3,96	0	P1 NR	4,00	1,00		5,00	28,31		5,00	28,31
TOTAL FOR COMPONENT (Kg)												36,26			35,09
								Total for negative movement -					Total for positive movement +		35,09

90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 Gr. WPB															
66	mm	25	0	mm	3,38	0	P1 NR	3,00	1,00		4,00	,54	4,00		
72	mm	100	0	mm	6,02	0	P1 NR	6,00	1,00		7,00	27,39	15,00	-8,00	-31,30
74	mm	150	0	mm	10,97	0	P1 NR	8,00	1,00		9,00	141,18	9,00		
TOTAL FOR COMPONENT (Kg)												169,12			-31,30
								Total for negative movement -				31,30	Total for positive movement +		

Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 Gr. WPB															
641	mm	125	100	mm	3,96	3,18	0 P1 NR	5,00	1,00		6,00	10,45		6,00	10,45
645	mm	150	125	mm	3,96	3,96	0 P1 NR	4,00	1,00		5,00	10,89		5,00	10,89
TOTAL FOR COMPONENT (Kg)												21,34			21,34
								Total for negative movement -					Total for positive movement +		21,34

PUMA5	Material Request - Summary (1)	15/11/2010 15.35.36
1E35 - SABIZ		

SubProject		Category of Good										MR ID	MR Number	MR Rev				
P95 / 1E35.65.1105		0301 / CARBON STEEL BW FITTINGS										1070	1E35.65.1105	1				
Mark	S1	S2	T1.	T2	Len. mm	P.L.	U.m	Take Off	Surplus	ACTUAL Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)			
Reducer Concentric ASME B16.9 BE Wrought S ASTM A 234 Gr. WPB																		
690	mm	150	100	mm	10,97	6,02	0	P1	NR	3,00			3,00	18,10	3,00			
TOTAL FOR COMPONENT (Kg)												18,10						
Total for negative movement												-		Total for positive movement			+	
Reducer Concentric SB-ATI-PR005/0 BE Welded Fe 360 B - UNI 7070																		
761	mm	200	125	mm	3,0	3,96	0	P1	NR	2,00			2,00		1,00			
TOTAL FOR COMPONENT (Kg)																		
Total for negative movement												-		Total for positive movement			+	
Reducer Eccentric ASME B16.9 BE Wrought S ASTM A 234 Gr. WPB																		
1933	mm	150	100	mm	10,97	6,02	0	P1	NR	1,00			1,00	6,03		6,03		
TOTAL FOR COMPONENT (Kg)												6,03					6,03	
Total for negative movement												-		Total for positive movement			+	6,03
Reducer Eccentric SB-ATI-PR005/0 BE Welded Fe 360 B - UNI 7070																		
975	mm	300	200	mm	3,0	3,0	0	P1	NR	1,00			1,00	4,74		4,74		
TOTAL FOR COMPONENT (Kg)												4,74					4,74	
Total for negative movement												-		Total for positive movement			+	4,74
90° Miter SB-ATI-PC003/0 BE Welded Fe 360 B - UNI 7070 R=1.5 D																		
1213	mm	200	0	mm	3,0		0	P1	NR	3,00			3,00	22,50		22,50		
TOTAL FOR COMPONENT (Kg)												22,50					22,50	
Total for negative movement												-		Total for positive movement			+	22,50
45° Miter SB-ATI-PC003/0 BE Welded Fe 360 B - UNI 7070 R=1.5 D																		
1326	mm	200	0	mm	3,0		0	P1	NR	10,00	1,00		11,00	44,88	4,00	7,00		
TOTAL FOR COMPONENT (Kg)												44,88					28,56	
Total for negative movement												-		Total for positive movement			+	28,56

PUMA5	Material Request - Summary (1)	15/11/2010 15.35.36
1E35 - SABIZ		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P95 / 1E35.65.1105	0301 / CARBON STEEL BW FITTINGS	1070	1E35.65.1105	1

Mark	S1	S2	T1	T2	Len. mm	P.L.	U.m	Take Off	Surplus	ACTUAL Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)
------	----	----	----	----	------------	------	-----	----------	---------	------------------	---------	--------------	-----------------	------------------	-------------

Elbow a=5° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=2000mm

1434	mm	125	0	mm	3,96	0	P1 NR	1,00			1,00	1,82	1,00		
TOTAL FOR COMPONENT (Kg)												1,82			
								Total for negative movement -					Total for positive movement +		

Elbow a=5° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=1500mm

1443	mm	125	0	mm	3,96	0	P1 NR	1,00			1,00	1,82	1,00		
TOTAL FOR COMPONENT (Kg)												1,82			
								Total for negative movement -					Total for positive movement +		

Elbow a=10° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=2000mm

1462	mm	125	0	mm	3,96	0	P1 NR	6,00	1,00		7,00	12,75		7,00	12,75
1463	mm	150	0	mm	3,96	0	P1 NR	4,00	1,00		5,00	10,89	1,00	4,00	8,71
TOTAL FOR COMPONENT (Kg)												23,64			
								Total for negative movement -					Total for positive movement +		

Elbow a=15° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=2000mm

1481	mm	150	0	mm	3,96	0	P1 NR						1,00	-1,00	-2,18
TOTAL FOR COMPONENT (Kg)															
								Total for negative movement -				2,18	Total for positive movement +		

Elbow a=45° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=2000mm

1514	mm	80	0	mm	3,18	0	P1 NR						5,00	-5,00	-4,61
1516	mm	125	0	mm	3,96	0	P1 NR	16,00	2,00		18,00	32,79	21,00	-3,00	-5,46
1517	mm	150	0	mm	3,96	0	P1 NR	29,00	4,00		33,00	71,87	32,00	1,00	2,18
TOTAL FOR COMPONENT (Kg)												104,66			
								Total for negative movement -				10,08	Total for positive movement +		

PUMA5	Material Request - Summary (1)	15/11/2010 15.35.36
1E35 - SABIZ		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P95 / 1E35.65.1105	0301 / CARBON STEEL BW FITTINGS	1070	1E35.65.1105	1

Mark	S1	S2	T1	T2	Len. mm	P.L.	U.m	Take Off	Surplus	ACTUAL Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)
Elbow a=45° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=1500mm															
1523	mm	80	0		mm	3,18	0	P1	NR		2,00		1,84		1,84
1525	mm	125	0		mm	3,96	0	P1	NR		5,00	1,00	6,00	10,93	5,46
TOTAL FOR COMPONENT (Kg)												12,77			7,31
Total for negative movement -													Total for positive movement +		7,31

Elbow a=90° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=2000mm															
1544	mm	80	0		mm	3,18	0	P1	NR				7,00	-7,00	-6,46
TOTAL FOR COMPONENT (Kg)															-6,46
Total for negative movement -												6,46	Total for positive movement +		

Elbow a=90° SB-ATI-PC005/0 BW Seamless API 5L Gr.B R=1500mm															
1550	mm	80	0		mm	3,18	0	P1	NR		2,00		1,84		1,84
TOTAL FOR COMPONENT (Kg)												1,84			1,84
Total for negative movement -													Total for positive movement +		1,84
TOTAL MR (Kg)												487,26			115,91
Total for negative movement -												50,01	Total for positive movement +		165,92

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	15/11/2010
PUMA5	15/11/2010 15.36.06		DOC:	1E35-65-1105			

PUMA5	Material Request - Summary (1)	15/11/2010 15.36.06
1E35 - SABIZ		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P95 / 1E35.65.1105	0401 / CARBON STEEL FLANGES	1090	1E35.65.1105	1

Len.								ACTUAL					PREVIOUS	NEED		
Mark	S1	S2	T1.	T2	mm	P.L.	U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)	
Flange Slip-On ASME B16.5 600 LB LM (125÷250 AARH) Forged ASTM A 105																
134	mm	15	0	mm	0	P1	NR	4,00	1,00		5,00	4,00	5,00			
136	mm	25	0	mm	0	P1	NR	6,00	1,00		7,00	11,20	7,00			
138	mm	40	0	mm	0	P1	NR						1,00	-1,00	-3,10	
139	mm	50	0	mm	0	P1	NR	2,00			2,00	7,40	2,00			
142	mm	100	0	mm	0	P1	NR	8,00	1,00		9,00	106,20	18,00	-9,00	-106,20	
		TOTAL FOR COMPONENT (Kg)											128,80			
								Total for negative movement -					109,30	Total for positive movement +		

Flange Slip-On ASME B16.5 600 LB LF (125÷250 AARH) Forged ASTM A 105																							
149	mm	40	0	mm	0	P1	NR						1,00	-1,00	-3,10								
153	mm	100	0	mm	0	P1	NR	2,00			2,00	23,60		2,00	23,60								
TOTAL FOR COMPONENT (Kg)								23,60								20,50							
								Total for negative movement - 3,10								Total for positive movement + 23,60							

Flange Slip-On SB-ATI-PF001/0 * SB-ATI-PF001(125÷250AARH) From Plate Fe 360 B - UNI 7070															
171	mm	80	0	mm	0	P1	NR	4,00			4,00		2,00	2,00	
TOTAL FOR COMPONENT (Kg)															
								Total for negative movement -				Total for positive movement +			

Flange Slip-On SB-ATI-PF002/0 * SB-ATI-PF002(125÷250AARH) Forged Fe 360 B - UNI 7070															
218	mm	80	0	mm	0	P1	NR	15,00	2,00		17,00	29,24	13,00	4,00	6,88
219	mm	100	0	mm	0	P1	NR	24,00	2,00		26,00	49,40		26,00	49,40
220	mm	125	0	mm	0	P1	NR	129,00	4,00		133,00	389,69	116,00	17,00	49,81
221	mm	150	0	mm	0	P1	NR	163,00	5,00		168,00	514,08	141,00	27,00	82,62

PUMA5	Material Request - Summary (1)	15/11/2010 15.36.06
1E35 - SABIZ		

SubProject		Category of Good										MR ID	MR Number	MR Rev	
P95 / 1E35.65.1105		0401 / CARBON STEEL FLANGES										1090	1E35.65.1105	1	
Mark	S1	S2	T1.	T2	Len.		Take Off	Surplus	ACTUAL		Tot Qty	Tot. W. (Kg)	PREVIOUS	NEED	
					mm	P.L. U.m			Manual	Qty			Qty	Quantity	Weight (Kg)
												982,41			188,71
								Total for negative movement -				Total for positive movement +		188,71	
												1.134,81			99,91
								Total for negative movement -		112,40		Total for positive movement +		212,31	

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	15/11/2010
PUMA5	15/11/2010 15.36.45		DOC:	1E35-65-1105			

PUMA5	Material Request - Summary (1)	15/11/2010 15.36.45
1E35 - SABIZ		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P95 / 1E35.65.1105	0601 / BOLTS	1130	1E35.65.1105	1

Len.								ACTUAL					PREVIOUS	NEED					
Mark	S1	S2	T1.	T2	mm	P.L.	U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)				
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																			
1574	mm	15	0	mm	70	P1	NR	8,00	2,00		10,00	1,10	10,00						
1578	mm	20	0	mm	100	P1	NR						5,00	-5,00	-4,20				
1581	mm	7/8	0	mm	145	P1	NR	80,00	8,00		88,00	58,08	70,00	18,00	11,88				
		TOTAL FOR COMPONENT (Kg)											59,18			7,68			
								Total for negative movement -					4,20	Total for positive movement +					11,88

Machine Bolt + 1 Nut SB-ATI-PV008A/0 - UNI 5727 + UNI 5592 4.6 UNI 3740 + 4A UNI 3740

1609	mm	M8	0	mm	30	P1	NR	20,00	4,00		24,00	,48	19,00	5,00	,10		
1615	mm	M10	0	mm	35	P1	NR	96,00	14,00		110,00	4,40	29,00	81,00	3,24		
1616	mm	M10	0	mm	40	P1	NR	584,00	58,00		642,00	32,10	519,00	123,00	6,15		
1623	mm	M12	0	mm	40	P1	NR	680,00	68,00		748,00	59,84	634,00	114,00	9,12		
			TOTAL FOR COMPONENT (Kg)									96,82				18,61	
								Total for negative movement -					Total for positive movement +				18,61

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

1646	mm	15	0	mm	45	P1	NR	8,00	2,00		10,00	,90	10,00			
1648	mm	5/8	0	mm	50	P1	NR	24,00	4,00		28,00	4,48	28,00			
1649	mm	5/8	0	mm	55	P1	NR	16,00	3,00		19,00	3,23	19,00			
1652	mm	7/8	0	mm	75	P1	NR						70,00	-70,00	-32,20	
				TOTAL FOR COMPONENT (Kg)								8,61				-32,20
								Total for negative movement -				32,20		Total for positive movement +		
				TOTAL MR (Kg)								164,61				-5,91
								Total for negative movement -				36,40		Total for positive movement +		30,49

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	15/11/2010
PUMA5	15/11/2010 15.37.17		DOC:	1E35-65-1105			

PUMA5	Material Request - Summary (1)	15/11/2010 15.37.17
1E35 - SABIZ		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P95 / 1E35.65.1105	0701 / GASKETS	1140	1E35.65.1105	1

Mark	S1	S2	T1.	T2	Len. mm	P.L.	U.m	Take Off	Surplus	ACTUAL Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)
Gasket SB-ATI-PV009/1 600 LB _ B4C															
241	mm	15	0		mm		0 P1 NR	4,00	4,00		8,00		8,00		
243	mm	25	0		mm		0 P1 NR	6,00	4,00		10,00		10,00		
245	mm	40	0		mm		0 P1 NR						2,00	-2,00	
246	mm	50	0		mm		0 P1 NR	2,00	2,00		4,00		4,00		
249	mm	100	0		mm		0 P1 NR	10,00	6,00		16,00		24,00	-8,00	
TOTAL FOR COMPONENT (Kg)															
								Total for negative movement -					Total for positive movement +		

Gasket SB-ATI-PV009/1 * SB-ATI-PF001(125÷250AARH) _ A9C FLAT-RING

274	mm	80	0		mm		0 P1 NR	5,00	5,00		10,00		8,00	2,00	
TOTAL FOR COMPONENT (Kg)															
								Total for negative movement -					Total for positive movement +		

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

302	mm	80	0		mm		0 P1 NR	8,00	5,00		13,00		10,00	3,00	
303	mm	100	0		mm		0 P1 NR	16,00	8,00		24,00			24,00	
304	mm	125	0		mm		0 P1 NR	73,00	22,00		95,00		77,00	18,00	
305	mm	150	0		mm		0 P1 NR	85,00	26,00		111,00		94,00	17,00	
TOTAL FOR COMPONENT (Kg)															
								Total for negative movement -					Total for positive movement +		
TOTAL MR (Kg)															
								Total for negative movement -					Total for positive movement +		