DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.44.00		DOC:	2F11-65-103			

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0101 / CARBON STEEL PIPE	1010	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
Pipe ASME B36.10 PL E.R.W. API 5L Gr.B																	
899	In	2+1/2	0	mm	3,18		0	P1	m	,40			,40	2,19	,40		
900	In	3	0	mm	3,18		0	P1	m	223,50	11,00		234,50	1.576,32	233,00	1,50	10,08
901	In	4	0	mm	3,18		0	P1	m	138,00	7,00		145,00	1.263,52	109,00	36,00	313,70
902	In	5	0	mm	3,18		0	P1	m	4,40			4,40	47,66	4,40		
904	In	6	0	mm	3,96		0	P1	m	82,00	8,00		90,00	1.444,36	90,00		
				TOTAL FOR COMPONENT (Kg)										4.334,04			323,78
										Total for negative movement -					Total for positive movement +		323,78
Pipe ASME B36.10 PL sch.40 Seamless API 5L Gr.B																	
929	In	1/4	0	mm	2,24		0	P1	m	2,20			2,20	1,39	2,20		
931	In	1/2	0	mm	2,77		0	P1	m	891,10	89,00		980,10	1.240,56	974,10	6,00	7,59
932	In	3/4	0	mm	2,87		0	P1	m	175,00	18,00		193,00	325,50	193,00		
933	In	1	0	mm	3,38		0	P1	m	272,10	27,00		299,10	748,41	275,10	24,00	60,05
934	In	1+1/4	0	mm	3,56		0	P1	m	,40			,40	1,36	,40		
935	In	1+1/2	0	mm	3,68		0	P1	m	195,40	20,00		215,40	872,20	199,40	16,00	64,79
936	In	2	0	mm	3,91		0	P1	m	411,40	21,00		432,40	2.351,03	424,40	8,00	43,50
				TOTAL FOR COMPONENT (Kg)										5.540,45			175,93
										Total for negative movement -					Total for positive movement +		175,93
				TOTAL MR (Kg)										9.874,49			499,72
										Total for negative movement -					Total for positive movement +		499,72

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.47.26		DOC:	2F11-65-103			

PUMA5	Material Request - Summary (1)	23/07/2012 13.47.26
2F11 - SABIZ 8000 kg/h		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0102 / STAINLESS STEEL PIPE	1020	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
Pipe ASME B36.19 PL sch.40S Seamless ASTM A 312 TP304																	
939	In	1/2	0	mm	2,77		0	P1	m	1,00			1,00	1,29	1,00		
941	In	1	0	mm	3,38		0	P1	m	34,00	3,00		37,00	94,47	27,00	10,00	25,53
TOTAL FOR COMPONENT (Kg)														95,76			25,53
Total for negative movement -															Total for positive movement +		25,53
Pipe ASME B36.19 PL sch.40S Seamless ASTM A 312 TP316																	
947	In	1/2	0	mm	2,77		0	P1	m	22,90	2,00		24,90	32,16	24,90		
948	In	3/4	0	mm	2,87		0	P1	m	2,00			2,00	3,44	2,00		
949	In	1	0	mm	3,38		0	P1	m	8,00	1,00		9,00	22,98	9,00		
952	In	2	0	mm	3,91		0	P1	m	69,00	3,00		72,00	399,44	57,00	15,00	83,22
TOTAL FOR COMPONENT (Kg)														458,02			83,22
Total for negative movement -															Total for positive movement +		83,22
Pipe ASME B36.19 PL sch.5S E.R.W. ASTM A 312 TP304																	
954	In	3	0	mm	2,11		0	P1	m	,50			,50	2,30	,50		
955	In	4	0	mm	2,11		0	P1	m	25,50	3,00		28,50	169,76	33,50	-5,00	-29,78
957	In	6	0	mm	2,77		0	P1	m	19,00	2,00		21,00	242,28	21,00		
958	In	8	0	mm	2,77		0	P1	m	6,00	1,00		7,00	105,55	7,00		
TOTAL FOR COMPONENT (Kg)														519,89			-29,78
Total for negative movement -													29,78		Total for positive movement +		
Pipe ASME B36.19 PL sch.5S E.R.W. ASTM A 312 TP316																	
967	In	3	0	mm	2,11		0	P1	m	1,00			1,00	4,61	1,00		
968	In	4	0	mm	2,11		0	P1	m	2,00			2,00	11,91	2,00		
969	In	5	0	mm	2,77		0	P1	m	,90			,90	8,69	,40	,50	4,83

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0102 / STAINLESS STEEL PIPE	1020	2F11-65-103	1

Mark		S1	S2	Len.	T1.	T2	mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)
970	In	6	0	mm	2,77		0	P1	m	12,50	1,00		13,50	155,75	13,50		
														180,96			4,83
				TOTAL FOR COMPONENT (Kg)						Total for negative movement -					Total for positive movement +		4,83
														1.254,63			83,79
				TOTAL MR (Kg)						Total for negative movement -			29,78		Total for positive movement +		113,58

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.47.53		DOC:	2F11-65-103			

PUMA5	Material Request - Summary (1)	23/07/2012 13.47.53
2F11 - SABIZ 8000 kg/h		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0105 / GALVANIZED CARBON STEEL PIPE	1030	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
Pipe ASME B36.10+Coupling ASME 3000# THRD-M NPT sch.40 Seamless API 5L GR. B Galvanized																	
980	In	1/2	0	mm	2,77		0	P1	m	290,00	29,00		319,00	403,77	319,00		
981	In	3/4	0	mm	2,87		0	P1	m	,50			,50	,84	,50		
982	In	1	0	mm	3,38		0	P1	m	138,20	14,00		152,20	380,83	150,20	2,00	5,00
984	In	1+1/2	0	mm	3,68		0	P1	m	66,00	7,00		73,00	295,59	64,00	9,00	36,44
985	In	2	0	mm	3,91		0	P1	m	70,00	7,00		77,00	418,66	84,00	-7,00	-38,06
986	In	2+1/2	0	mm	5,16		0	P1	m	12,00	1,00		13,00	112,22	13,00		
TOTAL FOR COMPONENT (Kg)														1.611,93			3,39
										Total for negative movement -			38,06	Total for positive movement +			41,45
TOTAL MR (Kg)														1.611,93			3,39
										Total for negative movement -			38,06	Total for positive movement +			41,45

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.49.03		DOC:	2F11-65-103			

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0201 / CARBON STEEL FORGED FITTINGS	1040	2F11-65-103	1

Mark		S1	S2	T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
45° Elbow SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 105																
80	In	1/2	0	mm		0	P1	NR	7,00	1,00		8,00	1,44	8,00		
TOTAL FOR COMPONENT (Kg)													1,44			
Total for negative movement -														Total for positive movement +		
90° Elbow SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105																
165	In	1/2	0	mm		0	P1	NR	5,00	1,00		6,00	2,40	6,00		
169	In	1+1/2	0	mm		0	P1	NR	4,00	1,00		5,00	12,00	5,00		
TOTAL FOR COMPONENT (Kg)													14,40			
Total for negative movement -														Total for positive movement +		
90° Elbow SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 105																
193	In	1/2	0	mm		0	P1	NR	309,00	31,00		340,00	85,00	335,00	5,00	1,25
194	In	3/4	0	mm		0	P1	NR	16,00	3,00		19,00	6,08	19,00		
TOTAL FOR COMPONENT (Kg)													91,08			1,25
Total for negative movement -														Total for positive movement +		1,25
Tee Reducing SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 105																
1772	In	3/4	1/2	mm		0	P1	NR	16,00	3,00		19,00		19,00		
TOTAL FOR COMPONENT (Kg)																
Total for negative movement -														Total for positive movement +		
Tee Straight SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105																
2550	In	1	0	mm		0	P1	NR	1,00			1,00	,57	1,00		
TOTAL FOR COMPONENT (Kg)													,57			
Total for negative movement -														Total for positive movement +		

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0201 / CARBON STEEL FORGED FITTINGS	1040	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
Tee Straight SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 105																	
2576	In	1/2	0	mm			0	P1	NR	79,00	12,00		91,00		91,00		
			TOTAL FOR COMPONENT (Kg)														
										Total for negative movement -					Total for positive movement +		
Reducing Insert M/F SB-ATI-PR007/0 SW-F x PL 3000# Forged ASTM A 105 TYPE 11																	
613	In	1/2	1/4	mm	2,77	2,24	0	P1	NR	1,00			1,00	,06	1,00		
618	In	3/4	1/2	mm	2,87	2,77	0	P1	NR	2,00			2,00	,22	2,00		
			TOTAL FOR COMPONENT (Kg)											,28			
										Total for negative movement -					Total for positive movement +		
Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105																	
667	In	1/2	0	mm			0	P1	NR	7,00	1,00		8,00	,96	8,00		
			TOTAL FOR COMPONENT (Kg)											,96			
										Total for negative movement -					Total for positive movement +		
Coupling SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 105																	
695	In	1/2	0	mm			0	P1	NR	6,00	1,00		7,00	,98	7,00		
			TOTAL FOR COMPONENT (Kg)											,98			
										Total for negative movement -					Total for positive movement +		
Coupling Half SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105																	
709	In	1/2	0	mm			0	P1	NR	6,00	1,00		7,00	,42	7,00		
711	In	1	0	mm			0	P1	NR	2,00			2,00	,30	2,00		
			TOTAL FOR COMPONENT (Kg)											,72			
										Total for negative movement -					Total for positive movement +		
Union SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105																	
821	In	1/2	0	mm			0	P1	NR	2,00			2,00	,60	2,00		

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0201 / CARBON STEEL FORGED FITTINGS	1040	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
823	In	1	0	mm			0	P1	NR	1,00			1,00	,65	1,00		
825	In	1+1/2	0	mm			0	P1	NR	2,00			2,00	2,52	2,00		
826	In	2	0	mm			0	P1	NR	2,00			2,00	4,02	2,00		
				TOTAL FOR COMPONENT (Kg)										7,79			
										Total for negative movement -					Total for positive movement +		
Union SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 105																	
849	In	1/2	0	mm			0	P1	NR	17,00	3,00		20,00	7,60	20,00		
				TOTAL FOR COMPONENT (Kg)										7,60			
										Total for negative movement -					Total for positive movement +		
Coupling Reducing SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105																	
2260	In	1/2	1/4	mm			0	P1	NR	83,00	12,00		95,00	2,85	95,00		
2265	In	3/4	1/2	mm			0	P1	NR	32,00	6,00		38,00	1,14	38,00		
				TOTAL FOR COMPONENT (Kg)										3,99			
										Total for negative movement -					Total for positive movement +		
Coupling Reducing SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 105																	
2384	In	1/2	1/4	mm			0	P1	NR	3,00	1,00		4,00	,12	4,00		
				TOTAL FOR COMPONENT (Kg)										,12			
										Total for negative movement -					Total for positive movement +		
Cap SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105																	
2480	In	1/2	0	mm			0	P1	NR	3,00	1,00		4,00	,48	4,00		
2481	In	3/4	0	mm			0	P1	NR	4,00	1,00		5,00	,95	5,00		
2482	In	1	0	mm			0	P1	NR	1,00			1,00	,25	1,00		
2484	In	1+1/2	0	mm			0	P1	NR	4,00	1,00		5,00	3,75	5,00		
2485	In	2	0	mm			0	P1	NR	2,00			2,00	3,20	2,00		

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0201 / CARBON STEEL FORGED FITTINGS	1040	2F11-65-103	1

Mark	S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
			TOTAL FOR COMPONENT (Kg)										8,63			
									Total for negative movement -					**Total for positive movement +**		
Cap SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 105																
2508	In	1/2	0	mm		0	P1	NR	2,00			2,00	,24	2,00		
			TOTAL FOR COMPONENT (Kg)										,24			
									Total for negative movement -					**Total for positive movement +**		
			TOTAL MR (Kg)										138,80			1,25
									Total for negative movement -					**Total for positive movement +**		1,25

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	0	18/05/2012
PUMA5	18/05/2012 11.20.28		DOC:	2F11-65-103			

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0202 / STAINLESS STEEL FORGED FITTINGS	1050	2F11-65-103	0

Mark		S1	S2	T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
45° Elbow SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 182 Gr. F316																
84	In	1/2	0	mm		0	P1	NR	3,00			3,00	,55		3,00	,55
			TOTAL FOR COMPONENT (Kg)										,55			,55
											Total for negative movement -			Total for positive movement +		,55
90° Elbow SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 182 Gr. F316																
197	In	1/2	0	mm		0	P1	NR	10,00	2,00		12,00	3,06		12,00	3,06
			TOTAL FOR COMPONENT (Kg)										3,06			3,06
											Total for negative movement -			Total for positive movement +		3,06
Tee Straight SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 182 Gr. F316																
2580	In	1/2	0	mm		0	P1	NR	3,00			3,00			3,00	
			TOTAL FOR COMPONENT (Kg)													
											Total for negative movement -			Total for positive movement +		
Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 182 Gr. F316																
675	In	1/2	0	mm		0	P1	NR	1,00			1,00	,12		1,00	,12
			TOTAL FOR COMPONENT (Kg)										,12			,12
											Total for negative movement -			Total for positive movement +		,12
Coupling SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 182 Gr. F316																
699	In	1/2	0	mm		0	P1	NR	1,00			1,00	,14		1,00	,14
			TOTAL FOR COMPONENT (Kg)										,14			,14
											Total for negative movement -			Total for positive movement +		,14
Union SB-ATI-PR007/0 SW-F 3000# Forged ASTM A 182 Gr. F316																
852	In	1/2	0	mm		0	P1	NR	5,00	1,00		6,00	2,33		6,00	2,33

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0202 / STAINLESS STEEL FORGED FITTINGS	1050	2F11-65-103	0

Mark	S1	S2	T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
TOTAL FOR COMPONENT (Kg)												2,33			2,33
								Total for negative movement -					**Total for positive movement +**		2,33
TOTAL MR (Kg)												6,20			6,20
								Total for negative movement -					**Total for positive movement +**		6,20

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.49.44		DOC:	2F11-65-103			

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0205 / GALVANIZED CARBON STEEL FORGED FITTINGS	1060	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
45° Elbow SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105 Galvanized																	
66	In	1/2	0	mm			0	P1	NR	1,00			1,00	,32	1,00		
68	In	1	0	mm			0	P1	NR	3,00	1,00		4,00	3,40	4,00		
71	In	2	0	mm			0	P1	NR	1,00			1,00	3,00	1,00		
			TOTAL FOR COMPONENT (Kg)											6,72			
										Total for negative movement -					Total for positive movement +		
90° Elbow SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105 Galvanized																	
179	In	1/2	0	mm			0	P1	NR	173,00	17,00		190,00	76,00	190,00		
181	In	1	0	mm			0	P1	NR	31,00	6,00		37,00	40,70	34,00	3,00	3,30
183	In	1+1/2	0	mm			0	P1	NR	5,00	1,00		6,00	14,40	6,00		
184	In	2	0	mm			0	P1	NR	6,00	1,00		7,00	23,10	10,00	-3,00	-9,90
			TOTAL FOR COMPONENT (Kg)											154,20			-6,60
										Total for negative movement -			9,90		Total for positive movement +		3,30
Tee Reducing SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105 Galvanized																	
1738	In	1	1/2	mm			0	P1	NR	35,00	7,00		42,00		42,00		
1743	In	1+1/2	1/2	mm			0	P1	NR	8,00	1,00		9,00		9,00		
1745	In	1+1/2	1	mm			0	P1	NR	1,00			1,00		1,00		
1748	In	2	1	mm			0	P1	NR	6,00	1,00		7,00		7,00		
1750	In	2	1+1/2	mm			0	P1	NR	1,00			1,00		1,00		
			TOTAL FOR COMPONENT (Kg)														
										Total for negative movement -					Total for positive movement +		
Tee Straight SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105 Galvanized																	
2562	In	1/2	0	mm			0	P1	NR	11,00	2,00		13,00	3,64	13,00		

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0205 / GALVANIZED CARBON STEEL FORGED FITTINGS	1060	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
2564	In	1	0	mm			0	P1	NR	4,00	1,00		5,00	2,85	5,00		
2566	In	1+1/2	0	mm			0	P1	NR	1,00			1,00		1,00		
2567	In	2	0	mm			0	P1	NR	2,00			2,00		2,00		
2568	In	2+1/2	0	mm			0	P1	NR	1,00			1,00		1,00		
				TOTAL FOR COMPONENT (Kg)										6,49			
										Total for negative movement -					Total for positive movement +		

Reducing Insert M/F SB-ATI-PR008/0 THRD-M NPT x THRD-F 3000# Forged ASTM A 105 Galvanized

538	In	1/2	3/8	mm			0	P1	NR	1,00			1,00	,06	1,00		
544	In	1	1/2	mm			0	P1	NR	3,00	1,00		4,00	,76	4,00		
545	In	1	3/4	mm			0	P1	NR	2,00			2,00	,38	2,00		
561	In	2	1	mm			0	P1	NR	6,00	1,00		7,00	4,20	7,00		
				TOTAL FOR COMPONENT (Kg)										5,40			
										Total for negative movement -					Total for positive movement +		

Coupling SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105 Galvanized

681	In	1/2	0	mm			0	P1	NR	4,00	1,00		5,00	,60	5,00		
				TOTAL FOR COMPONENT (Kg)										,60			
										Total for negative movement -					Total for positive movement +		

Plug Hex. SB-ATI-PR008/0 THRD-M NPT 3000# Forged ASTM A 105 Galvanized

767	In	1	0	mm			0	P1	NR	1,00			1,00	,35	1,00		
770	In	2	0	mm			0	P1	NR	1,00			1,00	1,50	1,00		
				TOTAL FOR COMPONENT (Kg)										1,85			
										Total for negative movement -					Total for positive movement +		

Union SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105 Galvanized

835	In	1/2	0	mm			0	P1	NR	44,00	9,00		53,00	15,90	53,00		
837	In	1	0	mm			0	P1	NR	4,00	1,00		5,00	3,25	5,00		
840	In	2	0	mm			0	P1	NR	2,00			2,00	4,02	2,00		

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0205 / GALVANIZED CARBON STEEL FORGED FITTINGS	1060	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
			TOTAL FOR COMPONENT (Kg)											23,17			
										Total for negative movement -				**Total for positive movement +**			
Coupling Reducing SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105 Galvanized																	
2349	**In**	2+1/2	1/2	**mm**		0	P1	NR		1,00			1,00	,13	1,00		
2351	**In**	2+1/2	1	**mm**		0	P1	NR		1,00			1,00	,13	1,00		
2354	**In**	2+1/2	2	**mm**		0	P1	NR		2,00			2,00	,26	2,00		
			TOTAL FOR COMPONENT (Kg)											,52			
										Total for negative movement -				**Total for positive movement +**			
Cap SB-ATI-PR008/0 THRD-F NPT 3000# Forged ASTM A 105 Galvanized																	
2494	**In**	1/2	0	**mm**		0	P1	NR		2,00			2,00	,24	2,00		
2496	**In**	1	0	**mm**		0	P1	NR		6,00	1,00		7,00	1,75	7,00		
2498	**In**	1+1/2	0	**mm**		0	P1	NR		3,00			3,00	2,25	3,00		
2499	**In**	2	0	**mm**		0	P1	NR		1,00			1,00	1,60	1,00		
			TOTAL FOR COMPONENT (Kg)											5,84			
										Total for negative movement -				**Total for positive movement +**			
			TOTAL MR (Kg)											204,79			-6,60
										Total for negative movement -			9,90	**Total for positive movement +**			3,30

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.50.24		DOC:	2F11-65-103			

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0301 / CARBON STEEL BW FITTINGS	1070	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	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																	
86	In	3	0	mm	3,18		0	P1	NR	7,00	1,00		8,00	4,83	7,00	1,00	,60
87	In	4	0	mm	3,18		0	P1	NR	2,00			2,00	2,04	2,00		
90	In	6	0	mm	3,96		0	P1	NR	2,00			2,00	5,70	2,00		
				TOTAL FOR COMPONENT (Kg)										12,57			,60
										Total for negative movement -					Total for positive movement +		,60
45° Elbow Long Radius ASME B16.9 BE sch.40 Wrought S ASTM A 234 Gr. WPB																	
116	In	1	0	mm	3,38		0	P1	NR	6,00	1,00		7,00	,47	10,00	-3,00	-,20
118	In	1+1/2	0	mm	3,68		0	P1	NR	4,00	1,00		5,00	,92	1,00	4,00	,74
119	In	2	0	mm	3,91		0	P1	NR	10,00	2,00		12,00	3,75	12,00		
				TOTAL FOR COMPONENT (Kg)										5,15			,53
										Total for negative movement -			,20		Total for positive movement +		,74
90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 Gr. WPB																	
199	In	3	0	mm	3,18		0	P1	NR	46,00	7,00		53,00	62,36	53,00		
200	In	4	0	mm	3,18		0	P1	NR	44,00	7,00		51,00	105,42	43,00	8,00	16,54
201	In	5	0	mm	3,18		0	P1	NR	1,00			1,00	3,15	1,00		
203	In	6	0	mm	3,96		0	P1	NR	34,00	5,00		39,00	220,85	39,00		
				TOTAL FOR COMPONENT (Kg)										391,77			16,54
										Total for negative movement -					Total for positive movement +		16,54
90° Elbow Long Radius ASME B16.9 BE sch.40 Wrought S ASTM A 234 Gr. WPB																	
229	In	1	0	mm	3,38		0	P1	NR	83,00	12,00		95,00	12,84	85,00	10,00	1,35
231	In	1+1/2	0	mm	3,68		0	P1	NR	45,00	7,00		52,00	19,14	52,00		
232	In	2	0	mm	3,91		0	P1	NR	60,00	6,00		66,00	43,87	65,00	1,00	,66

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0301 / CARBON STEEL BW FITTINGS	1070	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
			TOTAL FOR COMPONENT (Kg)											75,85			2,02
												Total for negative movement -			**Total for positive movement +**		2,02
Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 Gr. WPB																	
1011	In	3	2	mm	3,18	3,91	0	P1	NR	2,00			2,00	1,14	2,00		
1015	In	4	2+1/2	mm	3,18	3,18	0	P1	NR	2,00			2,00	1,72	2,00		
1016	In	4	3	mm	3,18	3,18	0	P1	NR	1,00			1,00	,86	1,00		
1021	In	5	3	mm	3,18	3,18	0	P1	NR	1,00			1,00	1,40	1,00		
1026	In	6	3	mm	3,96	3,18	0	P1	NR	1,00			1,00	2,18	1,00		
			TOTAL FOR COMPONENT (Kg)											7,30			
												Total for negative movement -			**Total for positive movement +**		
Reducer Concentric ASME B16.9 BE sch.40 Wrought S ASTM A 234 Gr. WPB																	
1079	In	1	1/2	mm	3,38	2,77	0	P1	NR	5,00	1,00		6,00	,81	6,00		
1084	In	1+1/2	1/2	mm	3,68	2,77	0	P1	NR	2,00			2,00	,52	2,00		
1086	In	1+1/2	1	mm	3,68	3,38	0	P1	NR	2,00			2,00	,52	2,00		
1090	In	2	1+1/4	mm	3,91	3,56	0	P1	NR	2,00			2,00	,86	2,00		
1091	In	2	1+1/2	mm	3,91	3,68	0	P1	NR	2,00			2,00	,86	2,00		
			TOTAL FOR COMPONENT (Kg)											3,56			
												Total for negative movement -			**Total for positive movement +**		
Reducer Eccentric ASME B16.9 BE E.R.W. ASTM A 234 Gr. WPB																	
1236	In	3	2	mm	3,18	3,91	0	P1	NR	2,00			2,00	1,14	2,00		
1253	In	6	5	mm	3,96	3,18	0	P1	NR	2,00			2,00	4,36	2,00		
			TOTAL FOR COMPONENT (Kg)											5,50			
												Total for negative movement -			**Total for positive movement +**		
Reducer Eccentric ASME B16.9 BE sch.40 Wrought S ASTM A 234 Gr. WPB																	
1373	In	1+1/2	1	mm	3,68	3,38	0	P1	NR	4,00	1,00		5,00	1,29	5,00		

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0301 / CARBON STEEL BW FITTINGS	1070	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)
				TOTAL FOR COMPONENT (Kg)										1,29			
										Total for negative movement -				**Total for positive movement +**			
Cap ASME B16.9 BE sch.40 Seamless ASTM A 234 Gr. WPB																	
2416	**In**	1	0	**mm**	3,38		0	P1	NR	6,00	1,00		7,00	,71	7,00		
2418	**In**	1+1/2	0	**mm**	3,68		0	P1	NR	3,00			3,00	,55	3,00		
2419	**In**	2	0	**mm**	3,91		0	P1	NR	11,00	2,00		13,00	4,07	13,00		
2421	**In**	3	0	**mm**	3,18		0	P1	NR	1,00			1,00	,41	1,00		
				TOTAL FOR COMPONENT (Kg)										5,74			
										Total for negative movement -				**Total for positive movement +**			
				TOTAL MR (Kg)										508,73			19,69
										Total for negative movement -			,20	**Total for positive movement +**			19,89

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.51.00		DOC:	2F11-65-103			

PUMA5	Material Request - Summary (1)	23/07/2012 13.51.00
2F11 - SABIZ 8000 kg/h		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0302 / STAINLESS STEEL BW FITTINGS	1080	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
45° Elbow Long Radius ASME B16.9 BE sch.40S Wrought S ASTM A 403 Gr. WP316																	
125	In	3/4	0	mm	2,87		0	P1	NR	1,00			1,00	,03	1,00		
126	In	1	0	mm	3,38		0	P1	NR	2,00			2,00	,14	2,00		
			TOTAL FOR COMPONENT (Kg)											,17			
										Total for negative movement -					Total for positive movement +		
45° Elbow Long Radius ASME B16.9 BE sch.5S Wrought W ASTM A 403 Gr. WP304																	
132	In	4	0	mm	2,11		0	P1	NR	1,00			1,00	,69	1,00		
134	In	6	0	mm	2,77		0	P1	NR	4,00			4,00	8,14	4,00		
			TOTAL FOR COMPONENT (Kg)											8,83			
										Total for negative movement -					Total for positive movement +		
45° Elbow Long Radius ASME B16.9 BE sch.5S Wrought W ASTM A 403 Gr. WP316																	
147	In	6	0	mm	2,77		0	P1	NR	2,00			2,00	4,07	6,00	-4,00	-8,14
			TOTAL FOR COMPONENT (Kg)											4,07			-8,14
										Total for negative movement -			8,14		Total for positive movement +		
90° Elbow Long Radius ASME B16.9 BE sch.40S Wrought S ASTM A 403 Gr. WP304																	
234	In	1	0	mm	3,38		0	P1	NR	5,00	1,00		6,00	,83	5,00	1,00	,14
			TOTAL FOR COMPONENT (Kg)											,83			,14
										Total for negative movement -					Total for positive movement +		,14
90° Elbow Long Radius ASME B16.9 BE sch.40S Wrought S ASTM A 403 Gr. WP316																	
238	In	3/4	0	mm	2,87		0	P1	NR	2,00			2,00	,18	2,00		
239	In	1	0	mm	3,38		0	P1	NR	6,00	1,00		7,00	,97	7,00		
242	In	2	0	mm	3,91		0	P1	NR	10,00	1,00		11,00	7,46	9,00	2,00	1,36

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0302 / STAINLESS STEEL BW FITTINGS	1080	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
			TOTAL FOR COMPONENT (Kg)											8,60			1,36
										Total for negative movement -					**Total for positive movement +**		1,36
90° Elbow Long Radius ASME B16.9 BE sch.5S Wrought W ASTM A 403 Gr. WP304																	
245	In	4	0	mm	2,11		0	P1	NR	3,00			3,00	4,20	3,00		
247	In	6	0	mm	2,77		0	P1	NR	2,00			2,00	8,08	2,00		
			TOTAL FOR COMPONENT (Kg)											12,28			
										Total for negative movement -					**Total for positive movement +**		
90° Elbow Long Radius ASME B16.9 BE sch.5S Wrought W ASTM A 403 Gr. WP316																	
260	In	6	0	mm	2,77		0	P1	NR	3,00			3,00	12,13	1,00	2,00	8,08
			TOTAL FOR COMPONENT (Kg)											12,13			8,08
										Total for negative movement -					**Total for positive movement +**		8,08
Reducer Concentric ASME B16.9 BE sch.40S Wrought S ASTM A 403 Gr. WP316																	
1108	In	3/4	1/2	mm	2,87	2,77	0	P1	NR	1,00			1,00	,06	1,00		
1109	In	1	1/2	mm	3,38	2,77	0	P1	NR	2,00			2,00	,28	2,00		
			TOTAL FOR COMPONENT (Kg)											,33			
										Total for negative movement -					**Total for positive movement +**		
Reducer Concentric ASME B16.9 BE sch.5S Wrought W ASTM A 403 Gr. WP304																	
1142	In	8	4	mm	2,77	2,11	0	P1	NR	1,00			1,00	2,26	1,00		
1144	In	8	6	mm	2,77	2,77	0	P1	NR	1,00			1,00	2,26		1,00	2,26
			TOTAL FOR COMPONENT (Kg)											4,52			2,26
										Total for negative movement -					**Total for positive movement +**		2,26
Reducer Concentric ASME B16.9 BE sch.5S Wrought W ASTM A 403 Gr. WP316																	
1191	In	6	5	mm	2,77	2,77	0	P1	NR	3,00			3,00	4,66	3,00		
			TOTAL FOR COMPONENT (Kg)											4,66			
										Total for negative movement -					**Total for positive movement +**		

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0302 / STAINLESS STEEL BW FITTINGS	1080	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
Reducer Eccentric ASME B16.9 BE sch.5S Wrought W ASTM A 403 Gr. WP304																	
1431	In	8	6	mm	2,77	2,77	0	P1	NR						1,00	-1,00	-2,26
			TOTAL FOR COMPONENT (Kg)														-2,26
										Total for negative movement -			2,26		Total for positive movement +		
Stub-End MSS SP-43 BE sch.40S Wrought S ASTM A 403 Gr. WP304 Type A																	
774	In	1/2	0	mm	2,77		0	P1	NR	2,00			2,00	,17	2,00		
776	In	1	0	mm	3,38		0	P1	NR	4,00	1,00		5,00	,81	3,00	2,00	,32
			TOTAL FOR COMPONENT (Kg)											,98			,32
										Total for negative movement -					Total for positive movement +		,32
Stub-End MSS SP-43 BE sch.40S Wrought S ASTM A 403 Gr. WP316 Type A																	
780	In	1/2	0	mm	2,77		0	P1	NR	8,00	1,00		9,00	,76	9,00		
781	In	3/4	0	mm	2,87		0	P1	NR	7,00	1,00		8,00	,82	8,00		
782	In	1	0	mm	3,38		0	P1	NR	15,00	2,00		17,00	2,76	17,00		
785	In	2	0	mm	3,91		0	P1	NR	11,00	1,00		12,00	5,75	10,00	2,00	,96
			TOTAL FOR COMPONENT (Kg)											10,08			,96
										Total for negative movement -					Total for positive movement +		,96
Stub-End MSS SP-43 BE sch.5S Wrought W ASTM A 403 Gr. WP304 Type A																	
787	In	3	0	mm	2,11		0	P1	NR	1,00			1,00	,40	1,00		
788	In	4	0	mm	2,11		0	P1	NR	5,00			5,00	3,12	4,00	1,00	,62
790	In	6	0	mm	2,77		0	P1	NR	4,00			4,00	5,31	6,00	-2,00	-2,66
791	In	8	0	mm	2,77		0	P1	NR	4,00			4,00	8,03	4,00		
			TOTAL FOR COMPONENT (Kg)											16,86			-2,03
										Total for negative movement -			2,66		Total for positive movement +		,62
Stub-End MSS SP-43 BE sch.5S Wrought W ASTM A 403 Gr. WP316 Type A																	
800	In	3	0	mm	2,11		0	P1	NR	1,00			1,00	,40	1,00		

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0302 / STAINLESS STEEL BW FITTINGS	1080	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
801	In	4	0	mm	2,11		0	P1	NR	2,00			2,00	1,25	2,00		
803	In	6	0	mm	2,77		0	P1	NR	6,00			6,00	7,97	6,00		
				TOTAL FOR COMPONENT (Kg)										9,62			
										Total for negative movement -					Total for positive movement +		
				TOTAL MR (Kg)										93,97			,69
										Total for negative movement -			13,06		Total for positive movement +		13,75

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.51.45		DOC:	2F11-65-103			

PUMA5	Material Request - Summary (1)	23/07/2012 13.51.45
2F11 - SABIZ 8000 kg/h		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0401 / CARBON STEEL FLANGES	1090	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
Flange Blind ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105																	
285	In	3	0	mm			0	P1	NR	1,00			1,00	5,00	1,00		
				TOTAL FOR COMPONENT (Kg)										5,00			
										Total for negative movement -					Total for positive movement +		
Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105																	
325	In	1/2	0	mm			0	P1	NR	20,00	3,00		23,00	9,20	23,00		
326	In	3/4	0	mm			0	P1	NR	2,00			2,00	1,40	2,00		
327	In	1	0	mm			0	P1	NR	27,00	4,00		31,00	24,80	30,00	1,00	,80
329	In	1+1/2	0	mm			0	P1	NR	8,00	1,00		9,00	12,60	9,00		
330	In	2	0	mm			0	P1	NR	21,00	2,00		23,00	50,60	20,00	3,00	6,60
332	In	3	0	mm			0	P1	NR	23,00	2,00		25,00	102,50	26,00	-1,00	-4,10
333	In	4	0	mm			0	P1	NR	24,00	2,00		26,00	145,60	25,00	1,00	5,60
335	In	6	0	mm			0	P1	NR	27,00	3,00		30,00	225,00	30,00		
				TOTAL FOR COMPONENT (Kg)										571,70			8,90
										Total for negative movement -			4,10		Total for positive movement +		13,00
				TOTAL MR (Kg)										576,70			8,90
										Total for negative movement -			4,10		Total for positive movement +		13,00

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.52.12		DOC:	2F11-65-103			

PUMA5	Material Request - Summary (1)	23/07/2012 13.52.12
2F11 - SABIZ 8000 kg/h		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0405 / GALVANIZED CARBON STEEL FLANGES	1110	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized																	
306	In	1/2	0	mm			0	P1	NR	10,00	2,00		12,00	4,80	12,00		
307	In	3/4	0	mm			0	P1	NR	7,00	1,00		8,00	5,60	8,00		
308	In	1	0	mm			0	P1	NR	19,00	3,00		22,00	17,60	21,00	1,00	,80
311	In	2	0	mm			0	P1	NR	11,00	1,00		12,00	26,40	10,00	2,00	4,40
313	In	3	0	mm			0	P1	NR	2,00			2,00	8,20	2,00		
314	In	4	0	mm			0	P1	NR	7,00	1,00		8,00	44,80	7,00	1,00	5,60
316	In	6	0	mm			0	P1	NR	10,00	1,00		11,00	82,50	13,00	-2,00	-15,00
317	In	8	0	mm			0	P1	NR	4,00			4,00	50,40	4,00		
TOTAL FOR COMPONENT (Kg)														240,30			-4,20
										Total for negative movement -			15,00		Total for positive movement +		10,80
Flange Blind + Disk ASME B16.5 - SB-ATI-PF007/0 (DISK) 150 LB RF (125÷250 AARH) Forged FLG: ASTM A 105 Galvanized - DISK: A240 TYPE 316																	
2807	In	6	0	mm			0	P1	NR	1,00			1,00	,89		1,00	,89
TOTAL FOR COMPONENT (Kg)														,89			,89
										Total for negative movement -					Total for positive movement +		,89
TOTAL MR (Kg)														241,19			-3,31
										Total for negative movement -			15,00		Total for positive movement +		11,69

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.52.44		DOC:	2F11-65-103			

PUMA5	Material Request - Summary (1)	23/07/2012 13.52.44
2F11 - SABIZ 8000 kg/h		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0601 / BOLTS	1130	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED 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																	
2830	In	1/2	0	mm			65	P1	NR	80,00	8,00		88,00	9,68	88,00		
2831	In	1/2	0	mm			70	P1	NR	92,00	9,00		101,00	11,11	95,00	6,00	,66
2832	In	1/2	0	mm			75	P1	NR	24,00	4,00		28,00	3,36	37,00	-9,00	-1,08
2838	In	5/8	0	mm			85	P1	NR	48,00	7,00		55,00	11,55	46,00	9,00	1,89
2840	In	5/8	0	mm			95	P1	NR	110,00	6,00		116,00	26,68	107,00	9,00	2,07
2843	In	5/8	0	mm			110	P1	NR	20,00	4,00		24,00	6,00	24,00		
2848	In	5/8	0	mm			145	P1	NR	20,00	4,00		24,00	7,20	24,00		
2849	In	5/8	0	mm			150	P1	NR	48,00	7,00		55,00	17,05	55,00		
2850	In	3/4	0	mm			100	P1	NR	128,00	6,00		134,00	112,56	134,00		
2854	In	3/4	0	mm			120	P1	NR	8,00	2,00		10,00	9,20	10,00		
2858	In	3/4	0	mm			160	P1	NR	56,00	6,00		62,00	66,96	62,00		
			TOTAL FOR COMPONENT (Kg)											281,35			3,54
										Total for negative movement -				1,08	Total for positive movement +		4,62
Stud Bolt + 2 Nuts SB-ATI-PV008B/0 ASME B18.2.1 UNC/2.2 Tab.9 ASTM A 193 B7 / A 194 2H Galvanized																	
2909	In	1/2	0	mm			75	P1	NR	54,00	5,00		59,00	7,08	59,00		
2910	In	1/2	0	mm			80	P1	NR	50,00	8,00		58,00	6,96	53,00	5,00	,60
2921	In	5/8	0	mm			95	P1	NR	14,00	3,00		17,00	3,91	12,00	5,00	1,15
2923	In	5/8	0	mm			105	P1	NR	6,00	1,00		7,00	1,68	7,00		
2924	In	5/8	0	mm			110	P1	NR	32,00	5,00		37,00	9,25	28,00	9,00	2,25
2932	In	5/8	0	mm			150	P1	NR	8,00	2,00		10,00	3,10	10,00		
2995	In	5/8	0	mm			170	P1	NR	8,00	2,00		10,00	3,30	10,00		
2933	In	3/4	0	mm			115	P1	NR	84,00	8,00		92,00	82,80	106,00	-14,00	-12,60
2935	In	3/4	0	mm			130	P1	NR	16,00	3,00		19,00	18,24	19,00		
2940	In	3/4	0	mm			170	P1	NR	16,00	3,00		19,00	21,28	19,00		

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0601 / BOLTS	1130	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)
2941	In	3/4	0	mm			205	P1	NR	8,00	2,00		10,00	12,60	10,00		
				TOTAL FOR COMPONENT (Kg)										170,20			-8,60
												Total for negative movement -	12,60		**Total for positive movement +**		4,00
Screws for valves ASME B 18.2.1/UNC ASTM A 193 B7																	
2970	In	1/2	0	mm			30	P1	NR	32,00	5,00		37,00	2,96	37,00		
2971	In	1/2	0	mm			35	P1	NR	16,00	3,00		19,00	1,52	19,00		
2974	In	5/8	0	mm			40	P1	NR	28,00	4,00		32,00	4,80	28,00	4,00	,60
2975	In	5/8	0	mm			45	P1	NR	16,00	3,00		19,00	3,04	10,00	9,00	1,44
2978	In	3/4	0	mm			50	P1	NR	16,00	3,00		19,00	12,16	19,00		
				TOTAL FOR COMPONENT (Kg)										24,48			2,04
												Total for negative movement -			**Total for positive movement +**		2,04
Screws for valves ASME B 18.2.1/UNC ASTM A 193 B7 Galvanized																	
2981	In	1/2	0	mm			30	P1	NR	40,00	6,00		46,00	3,68	37,00	9,00	,72
2982	In	1/2	0	mm			35	P1	NR						10,00	-10,00	-,80
2984	In	5/8	0	mm			40	P1	NR	36,00	5,00		41,00	6,15	37,00	4,00	,60
2985	In	5/8	0	mm			45	P1	NR	36,00	5,00		41,00	6,56	10,00	31,00	4,96
2986	In	5/8	0	mm			50	P1	NR						28,00	-28,00	-4,48
				TOTAL FOR COMPONENT (Kg)										16,39			1,00
												Total for negative movement -	5,28		**Total for positive movement +**		6,28
				TOTAL MR (Kg)										492,42			-2,02
												Total for negative movement -	18,96		**Total for positive movement +**		16,94

DESMET - Ballestra		Material Request - Summary (1)	PROJ:	2F11	REV:	1	23/07/2012
PUMA5	23/07/2012 13.53.06		DOC:	2F11-65-103			

2F11 - SABIZ 8000 kg/h

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0701 / GASKETS	1140	2F11-65-103	1

Mark		S1	S2	T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	NEED Weight (Kg)
Gasket SB-ATI-PV009/5 150 LB RF (125÷250 AARH) _ B5C																
371	In	1/2	0	mm		0	P1	NR	4,00	4,00		8,00		8,00		
373	In	1	0	mm		0	P1	NR	8,00	5,00		13,00		13,00		
375	In	1+1/2	0	mm		0	P1	NR	6,00	4,00		10,00		13,00	-3,00	
376	In	2	0	mm		0	P1	NR	6,00	4,00		10,00		10,00		
378	In	3	0	mm		0	P1	NR	12,00	6,00		18,00		18,00		
379	In	4	0	mm		0	P1	NR	5,00	5,00		10,00		10,00		
				TOTAL FOR COMPONENT (Kg)												
									Total for negative movement -					Total for positive movement +		
Gasket SB-ATI-PV009/5 150 LB RF (125÷250 AARH) _ B5B																
399	In	1/2	0	mm		0	P1	NR	2,00	2,00		4,00		4,00		
401	In	1	0	mm		0	P1	NR	4,00	4,00		8,00		6,00	2,00	
403	In	1+1/2	0	mm		0	P1	NR	4,00	4,00		8,00		8,00		
404	In	2	0	mm		0	P1	NR	18,00	9,00		27,00		24,00	3,00	
406	In	3	0	mm		0	P1	NR	6,00	4,00		10,00		10,00		
407	In	4	0	mm		0	P1	NR	9,00	5,00		14,00		13,00	1,00	
409	In	6	0	mm		0	P1	NR	21,00	10,00		31,00		31,00		
				TOTAL FOR COMPONENT (Kg)												
									Total for negative movement -					Total for positive movement +		
Gasket SB-ATI-PV009/5 150 LB RF (125÷250 AARH) _ B5F																
418	In	1/2	0	mm		0	P1	NR	10,00	6,00		16,00		16,00		
419	In	3/4	0	mm		0	P1	NR	7,00	4,00		11,00		11,00		
420	In	1	0	mm		0	P1	NR	20,00	10,00		30,00		29,00	1,00	
423	In	2	0	mm		0	P1	NR	11,00	6,00		17,00		16,00	1,00	

PUMA5	Material Request - Summary (1)	23/07/2012 13.53.07
2F11 - SABIZ 8000 kg/h		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P03 / 2F11-65-103	0701 / GASKETS	1140	2F11-65-103	1

Mark		S1	S2		T1.	T2	Len. mm	P.L.	U.m	ACTUAL Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED Quantity	Weight (Kg)
425	In	3	0	mm			0	P1	NR	3,00	3,00		6,00		6,00		
426	In	4	0	mm			0	P1	NR	9,00	5,00		14,00		13,00	1,00	
428	In	6	0	mm			0	P1	NR	12,00	6,00		18,00		21,00	-3,00	
429	In	8	0	mm			0	P1	NR	4,00	4,00		8,00		8,00		
				TOTAL FOR COMPONENT (Kg)													
										Total for negative movement -					Total for positive movement +		
Gasket Spiral Wound SB-ATI-PV009/5 150 LB RF (125÷250 AARH) _ G5N INNER OUTER RING																	
2816	In	1/2	0	mm			0	P1	NR	14,00	7,00		21,00		21,00		
2817	In	3/4	0	mm			0	P1	NR	2,00	2,00		4,00		4,00		
2818	In	1	0	mm			0	P1	NR	15,00	8,00		23,00		23,00		
				TOTAL FOR COMPONENT (Kg)													
										Total for negative movement -					Total for positive movement +		
				TOTAL MR (Kg)													
										Total for negative movement -					Total for positive movement +		