

Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	0	12/03/2010
PUMA5	12/03/2010 14.53.55		DOC:	1E35.65.017			

PUMA5	Material Request - Summary (1)	12/03/2010 14.53.55
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0101 / CARBON STEEL PIPE	1010	1E35-65-017	0

Mark	S1	S2	T1.	T2	Len.		P.L.	U.m	Take Off	Surplus	ACTUAL		Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED		
					mm	P.L.					Manual	Quantity				Weight (Kg)		
Pipe ASME B36.10 PL Seamless API 5L GR. B																		
1433	In	1/2	0	mm	2,77	0	p2	m	3,00			3,00	3,80		3,00	3,80		
1438	In	2	0	mm	3,91	0	p2	m	3,00			3,00	16,31		3,00	16,31		
		TOTAL FOR COMPONENT (Kg)											20,11					
									Total for negative movement -					Total for positive movement +				20,11

Pipe ASME B36.10 PL E.R.W. API 5L GR. B																
1452	In	2+1/2	0	mm	3,18	0	p2	m	16,00	2,00		18,00	98,55		18,00	98,55
1453	In	3	0	mm	3,18	0	p2	m	76,00	4,00		80,00	537,76		80,00	537,76
1454	In	4	0	mm	3,18	0	p2	m	4,00			4,00	34,86		4,00	34,86
TOTAL FOR COMPONENT (Kg)												671,17			671,17	
												Total for negative movement -			Total for positive movement +	
TOTAL MR (Kg)												691,28			691,28	
												Total for negative movement -			Total for positive movement +	

Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	06/04/2010
PUMA5	06/04/2010 14.59.56		DOC:	1E35.65.017			

PUMA5	Material Request - Summary (1)	06/04/2010 14.59.56
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0102 / STAINLESS STEEL PIPE	1020	1E35-65-017	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)		
Pipe ASME B36.19 PL Seamless ASTM A 312 TP 304																	
1506	In	1	0	mm	3,38	0	p2 m	,20			,20	,51	,20				
1508	In	1+1/2	0	mm	3,68	0	p2 m	3,20			3,20	13,22	3,20				
1509	In	2	0	mm	3,91	0	p2 m	8,50			8,50	47,16		8,50	47,16		
5455	In	2+1/2	0	mm	5,16	0	p2 m	,20			,20	1,76	,20				
5478	In	3	0	mm	5,49	0	p2 m	42,00	4,00		46,00	530,02	46,00				
TOTAL FOR COMPONENT (Kg)												592,67				47,16	
								Total for negative movement -					Total for positive movement +				47,16

Pipe ASME B36.19 PL Seamless ASTM A 312 TP 316																
1520	In	1/2	0	mm	2,77	0	p2	m						71,00	-71,00	-91,70
1522	In	1	0	mm	3,38	0	p2	m		,20				,20	,51	
TOTAL FOR COMPONENT (Kg)													,51			-91,70
									Total for negative movement -				91,70	Total for positive movement +		

Pipe ASME B36.19 PL E.R.W. ASTM A 312 TP 316																		
1540	In	3	0	mm	2,11	0	p2	m	35,50	2,00		37,50	172,79	37,50				
TOTAL FOR COMPONENT (Kg)									172,79									
									Total for negative movement -					Total for positive movement +				
TOTAL MR (Kg)									765,98								-44,54	
									Total for negative movement -				91,70	Total for positive movement +				47,16

Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	0	12/03/2010
PUMA5	12/03/2010 14.54.37		DOC:	1E35.65.017			

PUMA5	Material Request - Summary (1)	12/03/2010 14.54.37
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0301 / CARBON STEEL BW FITTINGS	1070	1E35-65-017	0

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)
45° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB															
129	In	3	0		mm	3,18	0	p2	NR		2,00			2,00	1,21
										TOTAL FOR COMPONENT (Kg)		1,21			
										Total for negative movement -			Total for positive movement +		1,21

90° Elbow Long Radius ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB															
296	In	2+1/2	0		mm	3,18	0	p2	NR		6,00	1,00		7,00	5,57
297	In	3	0		mm	3,18	0	p2	NR		6,00	1,00		7,00	8,24
298	In	4	0		mm	3,18	0	p2	NR		3,00			3,00	6,20
										TOTAL FOR COMPONENT (Kg)		20,00			
										Total for negative movement -			Total for positive movement +		20,00

90° Elbow Long Radius ASME B16.9 BE Wrought S ASTM A 234 GR. WPB															
327	In	2	0		mm	3,91	0	p2	NR		3,00			3,00	1,99
										TOTAL FOR COMPONENT (Kg)		1,99			
										Total for negative movement -			Total for positive movement +		1,99

Reducer Concentric ASME B16.9 BE E.R.W. ASTM A 234 GR. WPB															
1651	In	4	3		mm	3,18	3,18	0	p2	NR	1,00			1,00	,86
										TOTAL FOR COMPONENT (Kg)		,86			
										Total for negative movement -			Total for positive movement +		,86
										TOTAL MR (Kg)		24,06			
										Total for negative movement -			Total for positive movement +		24,06

Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	06/04/2010
PUMA5	06/04/2010 15.07.47		DOC:	1E35.65.017			

PUMA5	Material Request - Summary (1)	06/04/2010 15.07.47
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0302 / STAINLESS STEEL BW FITTINGS	1080	1E35-65-017	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 Seamless ASTM A 403 GR. WP304															
5476	In	3	0		mm	5,49	0	p2	NR		2,00		2,00	2,13	
TOTAL FOR COMPONENT (Kg)												2,13			
Total for negative movement -												Total for positive movement +			

45° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403 GR. WP316															
184	In	3	0		mm	2,11	0	p2	NR		6,00		6,00	2,45	
TOTAL FOR COMPONENT (Kg)												2,45			
Total for negative movement -												Total for positive movement +			

90° Elbow Long Radius ASME B16.9 BE Seamless ASTM A 403 GR. WP304															
289	In	1+1/2	0		mm	3,68	0	p2	NR		2,00		2,00	,75	
290	In	2	0		mm	3,91	0	p2	NR		4,00		4,00	2,71	2,71
5477	In	3	0		mm	5,49	0	p2	NR		8,00	1,00	9,00	18,65	
TOTAL FOR COMPONENT (Kg)												22,12			2,71
Total for negative movement -												Total for positive movement +			2,71

90° Elbow Long Radius ASME B16.9 BE Wrought W ASTM A 403 GR. WP316															
352	In	3	0		mm	2,11	0	p2	NR		5,00		5,00	3,98	
TOTAL FOR COMPONENT (Kg)												3,98			
Total for negative movement -												Total for positive movement +			

Reducer Concentric ASME B16.9 BE Seamless ASTM A 403 GR. WP304															
5488	In	3	2+1/2		mm	5,49	5,16	0	p2	NR	1,00		1,00	1,01	
TOTAL FOR COMPONENT (Kg)												1,01			
Total for negative movement -												Total for positive movement +			

PUMA5	Material Request - Summary (1)	06/04/2010 15.07.47
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0302 / STAINLESS STEEL BW FITTINGS	1080	1E35-65-017	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 W ASTM A 403 GR. WP316															
1836	In	3	2+1/2	mm	2,11	2,11	0	p2	NR	1,00		1,00	,39	1,00	
TOTAL FOR COMPONENT (Kg)												,39			
Total for negative movement -													Total for positive movement +		

Stub-End MSS SP-43 FLG x BE Wrought S ASTM A 403 GR. WP316 Type A															
1213	In	1/2	0	mm	2,77		0	p2	NR				13,00	-13,00	-1,10
TOTAL FOR COMPONENT (Kg)															
Total for negative movement -												1,10	Total for positive movement +		

Stub-End MSS SP-43 FLG x BE Wrought W ASTM A 403 GR. WP316 Type A															
1232	In	2+1/2	0	mm	2,11		0	p2	NR	1,00		1,00	,32	1,00	
1233	In	3	0	mm	2,11		0	p2	NR	6,00		6,00	2,40	6,00	
TOTAL FOR COMPONENT (Kg)												2,73			
Total for negative movement -													Total for positive movement +		
TOTAL MR (Kg)												34,81			
Total for negative movement -												1,10	Total for positive movement +		

Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	0	12/03/2010
PUMA5	12/03/2010 14.55.11		DOC:	1E35.65.017			

PUMA5	Material Request - Summary (1)	12/03/2010 14.55.11
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0401 / CARBON STEEL FLANGES	1090	1E35-65-017	0

Mark	S1	S2	T1.	T2	Len.		P.L. U.m	Take Off	Surplus	ACTUAL		Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NEED		
					mm	P.L. U.m				Manual					Quantity	Weight (Kg)	
Flange Slip-On ASME B16.5 150 LB RF (125÷250 AARH) Forged ASTM A 105																	
471	In	2+1/2	0		mm		0	p2	NR	5,00			5,00	18,00		5,00	18,00
472	In	3	0		mm		0	p2	NR	7,00			7,00	28,70		7,00	28,70
				TOTAL FOR COMPONENT (Kg)									46,70			46,70	
								Total for negative movement -						Total for positive movement +			
				TOTAL MR (Kg)									46,70			46,70	
								Total for negative movement -						Total for positive movement +			

Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	06/04/2010
PUMA5	06/04/2010 15.09.19		DOC:	1E35.65.017			

PUMA5	Material Request - Summary (1)	06/04/2010 15.09.19
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0402 / STAINLESS STEEL FLANGES	1100	1E35-65-017	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)
Flange Weld Neck ASME B16.5 900 LB LM (125÷250 AARH) Forged ASTM A 182 GR. F304															
5417	In	1	0		mm	3,38	0	p2	NR		1,00		1,00		
										TOTAL FOR COMPONENT (Kg)					
										Total for negative movement -			Total for positive movement +		

Flange Slip-On ASME B16.5 900 LB LM (125÷250 AARH) Forged ASTM A 182 GR. F304															
5439	In	2	0		mm		0	p2	NR		2,00			2,00	
5447	In	2+1/2	0		mm		0	p2	NR		1,00		1,00		
5470	In	3	0		mm		0	p2	NR		1,00		1,00		
										TOTAL FOR COMPONENT (Kg)					
										Total for negative movement -			Total for positive movement +		

Flange Slip-On ASME B16.5 900 LB LF (125÷250 AARH) Forged ASTM A 182 GR. F304															
5440	In	2	0		mm		0	p2	NR		1,00			1,00	
										TOTAL FOR COMPONENT (Kg)					
										Total for negative movement -			Total for positive movement +		
										TOTAL MR (Kg)					
										Total for negative movement -			Total for positive movement +		

Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	06/04/2010
PUMA5	06/04/2010 15.09.50		DOC:	1E35.65.017			

PUMA5	Material Request - Summary (1)	06/04/2010 15.09.50
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0405 / GALVANIZED CARBON STEEL FLANGES	1110	1E35-65-017	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)
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Flange Lap-Joint ASME B16.5 150 LB Flat Face Smooth Forged ASTM A 105 Galvanized

446	In	1/2	0	mm	0	p2 NR						13,00	-13,00	-5,20
452	In	2+1/2	0	mm	0	p2 NR	1,00			1,00	3,60	1,00		
453	In	3	0	mm	0	p2 NR	6,00	1,00		7,00	28,70	7,00		
TOTAL FOR COMPONENT (Kg)												32,30		-5,20
							Total for negative movement -					5,20	Total for positive movement +	
TOTAL MR (Kg)												32,30		-5,20
							Total for negative movement -					5,20	Total for positive movement +	

Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	06/04/2010
PUMA5	06/04/2010 15.10.19		DOC:	1E35.65.017			

PUMA5	Material Request - Summary (1)	06/04/2010 15.10.19
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0601 / BOLTS	1130	1E35-65-017	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)
Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/ASTM A 194 GR.2H															
5200	In	5/8	0		mm		90 p2 NR	12,00	2,00		14,00	3,08	14,00		
5201	In	5/8	0		mm		95 p2 NR	16,00	1,00		17,00	3,91	17,00		
5208	In	5/8	0		mm		135 p2 NR	4,00	1,00		5,00	1,40	5,00		
5209	In	5/8	0		mm		140 p2 NR	4,00	1,00		5,00	1,45	5,00		
TOTAL FOR COMPONENT (Kg)												9,84			
								Total for negative movement -					Total for positive movement +		

Stud Bolt + 2 Nuts TA 50.48B/28 ASME B18.2.1 UNC/2.2 TAB. 9 ASTM A 193 B7/A194 2H Galvanized

5125	In	1/2	0		mm		65 p2 NR						9,00	-9,00	- ,99
5127	In	1/2	0		mm		75 p2 NR						34,00	-34,00	-4,08
5136	In	5/8	0		mm		100 p2 NR	4,00	1,00		5,00	1,15	5,00		
5137	In	5/8	0		mm		105 p2 NR	20,00	1,00		21,00	5,04	17,00	4,00	,96
5156	In	7/8	0		mm		120 p2 NR	4,00	1,00		5,00	2,95	5,00		
5158	In	7/8	0		mm		140 p2 NR	24,00	2,00		26,00	16,64	9,00	17,00	10,88
5167	In	1	0		mm		150 p2 NR	8,00	2,00		10,00	18,10	10,00		
TOTAL FOR COMPONENT (Kg)												43,88			
								Total for negative movement -				5,07	Total for positive movement +		

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

5377	In	5/8	0		mm		45 p2 NR	16,00	3,00		19,00	3,04	19,00		
TOTAL FOR COMPONENT (Kg)												3,04			
								Total for negative movement -					Total for positive movement +		

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

5381	In	1/2	0		mm		30 p2 NR						34,00	-34,00	-2,72
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PUMA5	Material Request - Summary (1)	06/04/2010 15.10.20
1E35 - SULPHUREX GH/F		

SubProject		Category of Good										MR ID	MR Number	MR Rev		
P17 / 1E35-65-017		0601 / BOLTS										1130	1E35-65-017	1		
Mark	S1	S2	T1.	T2	Len.			ACTUAL					PREVIOUS	NEED		
					mm	P.L.	U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)	
5384	In	5/8	0		mm	40	p2	NR	16,00	1,00		17,00	2,55		17,00	2,55
5385	In	5/8	0		mm	45	p2	NR	32,00	2,00		34,00	5,44	34,00		
TOTAL FOR COMPONENT (Kg)													7,99			-,17
									Total for negative movement -				2,72	Total for positive movement +		
TOTAL MR (Kg)													64,75			6,60
									Total for negative movement -				7,79	Total for positive movement +		

Ballestra		Material Request - Summary (1)	PROJ:	1E35	REV:	1	06/04/2010
PUMA5	06/04/2010 15.10.49		DOC:	1E35.65.017			

PUMA5	Material Request - Summary (1)	06/04/2010 15.10.49
1E35 - SULPHUREX GH/F		

SubProject	Category of Good				MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0701 / GASKET				1140	1E35-65-017	1

Mark	S1	S2	T1.	T2	Len.		P.L.	U.m	Take Off	Surplus	ACTUAL		Tot Qty	Tot. W. (Kg)	PREVIOUS	NEED	
					mm	P.L.					Manual	Qty			Quantity	Weight (Kg)	
Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5C																	
665	In	2+1/2	0		mm	0	p2	NR	3,00	2,00			5,00		5,00		
666	In	3	0		mm	0	p2	NR	3,00	2,00			5,00		5,00		
TOTAL FOR COMPONENT (Kg)																	
									Total for negative movement -				Total for positive movement +				

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5B																	
698	In	3	0		mm	0	p2	NR	2,00	2,00			4,00		4,00		
TOTAL FOR COMPONENT (Kg)									Total for negative movement -					Total for positive movement +			

Gasket TA 50.5/31 150 LB RF (125÷250 AARH) _ B5F																	
710	In	1/2	0		mm	0	p2	NR							16,00	-16,00	
716	In	2+1/2	0		mm	0	p2	NR	1,00				1,00		1,00		
717	In	3	0		mm	0	p2	NR	7,00	4,00			11,00		9,00	2,00	
TOTAL FOR COMPONENT (Kg)									Total for negative movement -					Total for positive movement +			

Gasket TA 50.5/31 900 LB LM-LF (125÷250 AARH) _ B4C FLAT																	
5412	In	1	0		mm	0	p2	NR	1,00	1,00			2,00		2,00		
5441	In	2	0		mm	0	p2	NR	3,00	3,00			6,00			6,00	
5449	In	2+1/2	0		mm	0	p2	NR	1,00	1,00			2,00		2,00		
5472	In	3	0		mm	0	p2	NR	1,00	1,00			2,00		2,00		
TOTAL FOR COMPONENT (Kg)									Total for negative movement -					Total for positive movement +			

PUMA5	Material Request - Summary (1)	06/04/2010 15.10.49
1E35 - SULPHUREX GH/F		

SubProject	Category of Good	MR ID	MR Number	MR Rev
P17 / 1E35-65-017	0701 / GASKET	1140	1E35-65-017	1

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