	Bal	llestra							N	Iaterial Requ	ıest - Sun	mary (1)		PROJ: 1E	35	REV: 1	15/11/2010
PUMA5		-	15/11/2	2010 10.52.5	66					•		• , ,		DOC: 1E	35.65.1106		•
		I	PUMA5	5]	Material Reque	est - Summary (1)			15/11/2010 10.52.56
								•		1E35 - SU	LPHUREX	GH/F				•	
SubProject				Category o	of Good										MR ID MI	R Number	MR Rev
P96 / 1E35-65-1106				0101 / CAF	RBON S	TEEL I	PIPE								1010 1E	35-65-1106	1
							Len.					ACTUAL			PREVIOUS	NE	EED
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 B36.10 P	L Sean	nless Al	PI 5L C	GR. B													
1431	In	1/4	0	mm	2,24		0	p4	m	,60			,60	,38	,60		
1433	In	1/2	0	mm	2,77		0	p4	m	918,90	92,00		1.010,90	1.279,55	953,50	57,40	72,65
1434	In	3/4	0	mm	2,87		0	p4	m	160,00	16,00		176,00	296,83	176,00		
1435	In	1	0	mm	3,38		0	p4	m	169,00	17,00		186,00	465,41	173,40	12,60	31,53
1437	In	1+1/	2 0	mm	3,68		0	p4	m	332,90	33,00		365,90	1.481,61	319,90	46,00	186,26
1438	In	2	0	mm	3,91		0	p4	m	275,50	14,00		289,50	1.574,06	260,50	29,00	157,68
				TOTAL	FOR C	OMPO	NEN	IT (K	σ)					5.097,83			448,12
				101112	TORC	01,11)1 (1 2)	(11	· S)	To	otal for negat	tive movement	-	To	tal for positive n	novement +	448,12
Pipe ASME B36.10 P	L E.R.	W. API	5L GF	R. B													
1452	In	2+1/	2 0	mm	3,18		0	p4	m	81,60	8,00		89,60	490,58	120,40	-30,80	-168,64
1453	In	3	0	mm	3,18		0	p4	m	195,50	10,00		205,50	1.381,38	148,50	57,00	383,16
1454	In	4	0	mm	3,18		0	p4	m	189,50	9,00		198,50	1.729,71	197,00	1,50	13,07
1455	In	5	0	mm	3,18		0	p4	m	1,00			1,00	10,83	1,00		
1457	In	6	0	mm	3,96		0	p4	m	64,00	3,00		67,00	1.075,24	65,50	1,50	24,07
1459	In	8	0	mm	4,78		0	p4	m	103,00	3,00		106,00	2.677,87	119,20	-13,20	-333,47
				TOTAL	FOR C	OMPO	NEN	IT (K	(g)					7.365,61			-81,81
							·B)	To	otal for negat	tive movement	- 50	2,11 To	tal for positive n	novement +	420,30		
			12.463,45							366,32							
		TOTAL MR (Kg						IK (K	.g)	Tot	tal for negati	ve movement	- 50	2,11 Tot	tal for positive n	novement +	868,42

	Ba	llestra							Material Re	quest - Sun	mary (1)		PROJ: 1E	35	REV: 1	15/11/2010
PUMA5			15/11	1/2010 10.53.5	8					-	•		DOC: 1E	35.65.1106		•
]	PUM	A5							Material Reque	est - Summary (1)			15/11/2010 10.53.58
									1E35 -	SULPHUREX (GH/F	•	,			
SubProject				Category o										MR ID MI		MR Rev
P96 / 1E35-65-1106				0102 / STA	INLESS	S STEEL 1	PIPE							1020 1E	35-65-1106	1
Mark		S1	S2	;	T1.	Le T2 m		P.L. U.n	Take Off	Surplus	ACTUAL Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NE Quantity	ED Weight (Kg)
Pipe ASME B36.19 I	PL Sean	nless A	STM	A 312 TP 304	ļ											
1504	In	1/2	0	mm	2,77		0	p4 n	,60			,60	,77	,60		
				тотаі	FOR C	COMPON	FNT	r (Ka)		'		•	,77			
				TOTAL	TORC	OMI ON	12111	(IXg)		Total for negat	ive movement	-	To	otal for positive n	novement +	
Pipe ASME B36.19 I	PL Sean	nless A	STM	A 312 TP 316	,											
1520	In	1/2	0	mm	2,77		0	p4 n	29,60	3,00		32,60	42,10	22,60	10,00	12,92
1521	In	3/4	0	mm	2,87		0	p4 n	12,50	2,00		14,50	24,95	21,00	-6,50	-11,19
				TOTAL	FOR C	87 0 p4 R COMPONENT (1							67,06			1,73
								(8)		Total for negat	ive movement	-	1,19 To	otal for positive n	novement +	12,92
Pipe ASME B36.19 I	PL E.R.	W. AS	ГМ А	312 TP 304												
1527	In	3	0	mm	2,11		0	p4 n	1,00			1,00	4,61	1,00		
1530	In	6	0	mm	2,77		0	p4 n	2,00			2,00	23,07	7,00	-5,00	-57,69
1531	In	8	0	mm	2,77			p4 n	,	1,00		7,50	113,08		-,50	-7,54
1532	In	10	0	mm	3,4		0	p4 n	12,00	1,00		13,00	299,84	13,00		
				TOTAL	FOR C	COMPON	ENT	Γ (Kg)					440,61		Г	-65,23
										Total for negat	tive movement	- (55,23 To	otal for positive n	novement +	
Pipe ASME B36.19 I	PL E.R.	W. AS	ΓM A	312 TP 316												
1539	In	2+1/	2 0	mm	2,11		0	p4 n	137,00	4,00		141,00	530,68	46,50	94,50	355,67
1540	In	3	0	mm	2,11			p4 n	,	2,00		62,00	285,69	,	41,00	188,92
1541	In	4	0	mm	2,11			p4 n	-	3,00		65,50	390,14	,	54,50	324,62
1543	In	6	0	mm	2,77		0	p4 n	101,00	3,00		104,00	1.199,87	48,00	56,00	646,08
				TOTAL	FOR C	COMPON	ENT	Γ (Kg)					2.406,38			1.515,30
		TOTAL FOR COMPONEN								Total for negat	tive movement	-	To	otal for positive n	novement +	1.515,30

]	PUMA	5			M	aterial Request	- Summary	(1)			15/11/2010 10.53.58
					1E35 - SU	LPHUREX GI	I/F					
SubProject			Category of Good							MR ID N	AR Number	MR Rev
P96 / 1E35-65-1106			0102 / STAINLESS STEEL PIPE							1020 1	E35-65-1106	1
			Len.				ACTUAL			PREVIOUS	NI	EED
Mark	S1	S2	T1. T2 mm P	.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
			TOTAL MR	R (Kg)					2.914,81			1.451,80
				- (Tot	al for negative	movement -	,	76,41 To	tal for positive	movement +	1.528,21

	Bal	lestra							N	Iaterial Req	uest - Sum	mary (1)		PROJ:	1E35	REV:	15/11/2010
PUMA5		1	5/11	/2010 10.54.3	35							_		DOC:	1E35.65.1106		•
		F	UMA	.5							N	Iaterial Reques	t - Summary (1)			15/11/2010 10.54.35
								•		1E35 - S	ULPHUREX G	H/F				•	
SubProject				Category	of Goo	d									MR ID	MR Number	MR Rev
P96 / 1E35-65-1106				0105 / GAI	LVANI	ZED C.	ARBC	N ST	EEL	PIPE					1030	1E35-65-1106	1
							Len.					ACTUAL			PREVIOU	S N	EED
Mark		S1	S2		T1.	T2	mm	P.L.	U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg	(t) Qty	Quantity	Weight (Kg)
Pipe ASME B36.10 TI	HRD-N	A NPT	Sean	nless API 5L	GR. B	Galvani	zed										
1493	In	1/2	0	mm	2,77		0	p4	m	261,00	26,00		287,00	363	,27 304	,00 -17,0	-21,52
1495	In	1	0	mm	3,38		0	p4	m	110,20	11,00		121,20	303	,27 136	,20 -15,0	-37,53
1497	In	1+1/	2 0	mm	3,68		0	p4	m	20,50	2,00		22,50	91	,11 22	,00 ,5	2,02
1498	In	2	0	mm	3,91		0	p4	m	68,00	7,00		75,00	407	,79 61	,50 13,5	73,40
1500	In	3	0	mm	5,49		0	p4	m	34,00	3,00		37,00	417	,82 58	,00 -21,0	-237,14
				TOTAL	FOR	СОМР	ONE	NT (K	·a)					1.583	,25		-220,76
				TOTAL	TOK		ONE	.11 (15	·g)	7	Fotal for negati	ve movement	- 29	06,19	Total for positi	ve movement +	75,43
					TOTAL MR (Kg)									1.583	,25		-220,76
						TOTAL MR (Kg)				To	otal for negativ	e movement -	29	06,19	Total for positi	ve movement +	75,43

Bal	lestra]	Material Requ	uest - Sum	mary (1)		PROJ: 1E	235	REV: 1	15/11/2010
	1	5/11/2	010 10.55.08				_		•		DOC: 1E	235.65.1106	•	•
	P	UMA5		-				1	Material Request	t - Summary (1)			15/11/2010 10.55.08
						•	1E35 - SU	LPHUREX (GH/F		· 		•	
					T FOR	CED EVE	m.c							MR Rev
			0201 / CARBON	STEE	L FOR	GED FITT	ING							1
	S1	S2	T1	. т			Take Off	Surplus	ACTUAL Manual	Tot Qty	Tot. W. (Kg)	PREVIOUS Qty	NE Quantity	ED Weight (Kg)
6/1 SW	-F 3000	# Forg	ed ASTM A 105											
In	3/4	1/2	mm		(p4 NR	26,00	5,00		31,00	11,47	31,00		
			TOTAL FOR	COM	PONE	ENT (Kg)					11,47			
			101112101		01,12	22 (12 (12g)	T	otal for negat	ive movement -	-	To	otal for positive n	novement +	
1 SW-F	3000#	Forge	1 ASTM A 105											
In	1/2	0	mm		(p4 NR	61,00	6,00		67,00	18,76	68,00	-1,00	-,28
			TOTAL FOR	сом	PONE	ENT (Kg)					18,76			-,28
						. (8)	T	otal for negat	ive movement -		,28 To	otal for positive n	novement +	
TA 50.7	/2 THE	RD-M	NPT x THRD-F 3	3000# I	Forged	ASTM A 1	05							
In	1	1/2	mm		(p4 NR	4,00	1,00		5,00	,95	2,00	3,00	,57
			TOTAL FOR	COM	PONE	ENT (Kg)					,95	i		,57
							T	otal for negat	ive movement -		To	otal for positive n	novement +	,57
TA 50.6	/1 SW-	F x PL	3000# Forged AS	STM A	105 T	YPE 12								
In	1/2	1/4	mm 2,77	7 2,2	4 (p4 NR	2,00			2,00	,12	2,00		
			TOTAL FOR	сом	PONE	ENT (Kg)					,12			
						\ 8 [']	T	otal for negat	ive movement -		To	otal for positive n	novement +	
ΓHRD-F	NPT	3000#	Forged ASTM A	105										
In	1/2	0	mm		(p4 NR	16,00	3,00		19,00	2,28	19,00		
			TOTAL FOR	COM	PONE	ENT (Kg)					2,28	8		
						·- (8)	T	otal for negat	ive movement -	-	To	otal for positive n	novement +	
SW-F 30	000# Fo	orged A	STM A 105											
In	1/2	0	mm		(p4 NR	2,00			2,00	,28	2,00		
	6/1 SW-F In TA 50.7 In THRD-F In SW-F 30	S1 6/1 SW-F 3000# In 3/4 /1 SW-F 3000# In 1/2 TA 50.7/2 THE In 1 THRD-F NPT In 1/2 SW-F 3000# Fc	S1 S2 6/1 SW-F 3000# Forget In 3/4 1/2 /1 SW-F 3000# Forget In 1/2 0 TA 50.7/2 THRD-M In 1 1/2 TA 50.6/1 SW-F x PL In 1/2 1/4 THRD-F NPT 3000# In 1/2 0	15/11/2010 10.55.08 PUMA5 Category of Goo 0201 / CARBON S1 S2 T1 6/1 SW-F 3000# Forged ASTM A 105 In 3/4 1/2 mm TOTAL FOR TOTAL FOR	15/11/2010 10.55.08 PUMA5 Category of Good 0201 / CARBON STEE S1 S2 T1 T	15/11/2010 10.55.08 PUMA5 Category of Good O201 / CARBON STEEL FOR Len S1 S2 T1 T2 mm O201 SW-F 3000# Forged ASTM A 105 In 3/4 1/2 mm O201 TOTAL FOR COMPONE TOTAL FOR C	15/11/2010 10.55.08 PUMA5 Category of Good 0201 / CARBON STEEL FORGED FITT Len. S1 S2 T1. T2 mm P.L. U.m 6/1 SW-F 3000# Forged ASTM A 105 In 3/4 1/2 mm 0 p4 NR TOTAL FOR COMPONENT (Kg) TOTAL FOR	15/11/2010 10.55.08 PUMA5 IE35 - SU	PUMAS 1E35 - SULPHUREX C Category of Good 0201 / CARBON STEEL FORGED FITTING	15/11/2010 10.55.08	15/11/2010 10.55.08 PUMA5 Material Request - Summary (1E35 - SULPHUREX GH/F	PUM35	DOC: 1635.65.1106	DOC: E35.65.1106

]	PUMA5	· · · · · · · · · · · · · · · · · · ·						nterial Request	- Summary (1)			15/11/2010 10.55.08
								1E35 - SU	LPHUREX GI	I/F					
SubProject P96 / 1E35-65-110	06			Category of Good		ORGE	D FITTI	NG					MR ID M	R Number	MR Rev
					L	en.				ACTUAL			PREVIOUS	NF	ED
Mark		S1	S2	T1.			L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
				TOTAL FOR	COMPON	NENT	(Kg)					,28			
							(8)	T	otal for negativ	e movement -		То	tal for positive	novement +	
Coupling Half TA	50.7/2 TH	RD-F	NPT 3	000# Forged ASTM	И А 105										
1124	In	1/2	0	mm		0 1	p4 NR	6,00	1,00		7,00	,42	10,00	-3,00	-,1
1126	In	1	0	mm		0 1	p4 NR	6,00	1,00		7,00	1,05	8,00	-1,00	-,1:
				TOTAL FOR	COMPON	NENT	(Kg)					1,47			-,3:
							(8)	T	otal for negativ	e movement -		,33 To	tal for positive	novement +	
Union TA 50.7/2	THRD-F N	IPT 30	00# Fo	rged ASTM A 105											
1256	In	1	0	mm		0 1	p4 NR	2,00			2,00	1,30	2,00		
1258	In	1+1/	2 0	mm		0 1	p4 NR	1,00			1,00	1,26	1,00		
1259	In	2	0	mm		0 1	p4 NR	4,00	1,00		5,00	10,05	5,00		
				TOTAL FOR	COMPON	NENT	(Kg)					12,61			
								T	otal for negativ	e movement -		То	tal for positive	novement +	
Union TA 50.6/1	SW-F 3000	# Forg	ed AS	TM A 105											
1289	In	1/2	0	mm		0 1	p4 NR	28,00	4,00		32,00	12,16	30,00	2,00	,70
				TOTAL FOR	COMPON	NENT	`(K ø)					12,16			,70
				TOTALTON	001111 01	12111	(116)	T	otal for negativ	e movement -		То	tal for positive	novement +	,76
Coupling Reducin	ng TA 50.7/	2 THR	D-F N	PT 3000# Forged A	ASTM A 10	05									
4398	In	1/2	1/4	mm		0 1	p4 NR	24,00	2,00		26,00	,78	26,00		
4401	In	1	1/2	mm		0 1	p4 NR	1,00			1,00	,08		1,00	,0;
				TOTAL FOR	COMPON	NENT	(K g)					,86			,08
				1011111011	001122 01	,22,12	(8)	T	otal for negativ	e movement -		То	tal for positive	novement +	,08
Coupling Reducin	rg TA 50.6/	1 SW-	F 3000	# Forged ASTM A	105										
4447	In	1/2	1/4	mm		0 1	p4 NR	4,00	1,00		5,00	,15	5,00		
4449	In	3/4	1/2	mm		0 1	p4 NR	20,00	4,00		24,00	,72	24,00		

		I	PUMA5	5]	Material Request	- Summary (1)			15/11/2010 10.55.08
							1E35 - S	SULPHUREX (GH/F					
SubProject				Category of (Good							MR ID M	R Number	MR Rev
P96 / 1E35-65-1	106			0201 / CARB	ON STEEL	FORGED FIT	TING					1040 1H	E35-65-1106	1
						Len.			ACTUAL			PREVIOUS	N	EED
Mark		S1	S2		T1. T2	mm P.L. U.	m Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
				TOTAL FO	OR COMP	ONENT (Kg)					,87			
				TOTALI	on com	JILIVI (IKG)		Total for negat	tive movement -		To	tal for positive	movement +	
Cap TA 50.7/2 T	HRD-F NP	Т 3000	# Forg	ed ASTM A 10	5									
4546	In	1/2	0	mm		0 p4 N	R 4,00	1,00		5,00	,60	5,00		
4547	In	3/4	0	mm		0 p4 N	R 6,00	1,00		7,00	1,33	7,00		
4548	In	1	0	mm		0 p4 N	R 3,00	1,00		4,00	1,00	5,00	-1,00	-,25
4550	In	1+1/	2 0	mm		0 p4 N	R 11,00	2,00		13,00	9,75	13,00		
4551	In	2	0	mm		0 p4 N	R 2,00			2,00	3,20	2,00		
				TOTAL FO	OR COMPO	ONENT (Kg)					15,88			-,25
				TOTALT	ok com	JILLIVI (Ng)		Total for negat	tive movement -		,25 To	tal for positive	movement +	
					тот	AL MR (Kg)					77,71			,55
					101	AL MK (Ng)		otal for negati	ve movement -		,86 To	tal for positive 1	novement +	1,41

	Bal	llestra					Ma	aterial Requ	est - Sum	mary (1)		PROJ: 1	E35	REV: 0	15/11/2010
PUMA5		1	15/11	/2010 10.55.56				-		• • •		DOC: 1	E35.65.1106		•
		F	UMA	\ 5					N	Iaterial Reques	t - Summary (1)			15/11/2010 10.55.56
								1E35 - SU	LPHUREX G	H/F				•	
SubProject				Category of Goo	od								MR ID M	IR Number	MR Rev
P96 / 1E35-65-1106				0202 / STAINLES	SS STE	EEL FORGE	D FITT	INGS					1050 1	E35-65-1106	0
						Len.				ACTUAL			PREVIOUS		EED
Mark		S1	S2	T1.	. T2	2 mm P.L	. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
45° Elbow TA 50.7/2	THRD	-F NPT	300	00# Forged ASTM A	182 G	R. F316									
79	In	3/4	0	mm		0 p4	NR	1,00			1,00	,-	52	1,00	,52
				TOTAL FOR	COMI	PONENT (Kg)					,-	52		,52
							-8/	To	tal for negati	ve movement	-		Total for positive	movement +	,52
Tee Straight TA 50.6	/1 SW-I	F 3000#	Forg	ged ASTM A 182 GI	R. F316	5									
4695	In	1/2	0	mm		0 p4	NR	6,00	1,00		7,00	2,0	00	7,00	2,00
				TOTAL FOR	COMI	PONENT (Κ σ)					2,0	00		2,00
				10112101	001.11	01,21,1	-8/	To	tal for negati	ve movement	-		Total for positive	movement +	2,00
Union TA 50.6/1 SW	-F 3000	# Forge	ed AS	STM A 182 GR. F31	16										
1297	In	1/2	0	mm		0 p4	NR	3,00			3,00	1,1	. 6	3,00	1,16
				TOTAL FOR	COMI	PONENT (Κ σ)					1,1	6		1,16
				101112101		OI (LIVI (· -S)	To	tal for negati	ve movement	-		Total for positive	movement +	1,16
					то	TAL MP	Ka)					3,6	58		3,68
					TOTAL MR (Kg			Tota	al for negativ	e movement -		7	otal for positive	movement +	3,68

	Bal	lestra				N	Iaterial Req	uest - Sum	mary (1)		PROJ: 1E	35	REV: 1	15/11/2010
PUMA5		1	15/11/2	2010 10.56.37							DOC: 1E	35.65.1106		
		P	PUMA5					N	Aaterial Request	- Summary (1)			15/11/2010 10.56.37
							1E35 - S	ULPHUREX G	H/F		,		 	
SubProject				Category of Goo	od							MR ID M	R Number	MR Rev
P96 / 1E35-65-1106				0205 / GALVAN	IIZED CARBO	N STEEL	FORGED FITTIN	NGS				1060 1E	35-65-1106	1
					Len.				ACTUAL			PREVIOUS	NE	EED
Mark		S1	S2	Т1	. T2 mm	P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
45° Elbow TA 50.7/2	THRD-	F NPT	Γ 3000‡	# Forged ASTM A	A 105 Galvanize	d								
84	In	1/2	0	mm	0	p4 NR	39,00	8,00		47,00	15,04	47,00		
86	In	1	0	mm	0	p4 NR						2,00	-2,00	-1,70
89	In	2	0	mm	0	p4 NR	1,00			1,00	3,00		1,00	3,00
				TOTAL FOR	R COMPONEN	T (Ka)					18,04			1,30
				TOTAL FOR	COMI ONEN	I (Kg)	•	Fotal for negati	ive movement -		1,70 To	tal for positive r	novement +	3,00
90° Elbow TA 50.7/2	THRD	F NPT	Г 3000#	# Forged ASTM A	105 Galvanize	d				,				
252	In	1/2	0	mm		p4 NR	169,00	17,00		186,00	74,40	189,00	-3,00	-1,20
254	In	1	0	mm	0	p4 NR	24,00	4,00		28,00	30,80	29,00	-1,00	-1,10
256	In	1+1/	2 0	mm	0	p4 NR	4,00	1,00		5,00	12,00	3,00	2,00	4,80
257	In	2	0	mm	0	p4 NR	5,00	1,00		6,00	19,80	10,00	-4,00	-13,20
259	In	3	0	mm	0	p4 NR	1,00			1,00	9,00	8,00	-7,00	-63,00
				TOTAL FOR	COMPONEN	T (Ka)	·				146,00			-73,70
				TOTAL FOR	COMIONEN	i (Kg)	ŗ	Fotal for negati	ive movement -	. 7	78,50 To	tal for positive r	novement +	4,80
Tee Reducing TA 50.	7/2 THI	RD-F N	NPT 30	000# Forged ASTN	M A 105 Galvar	nized								
2765	In	1	1/2	mm	0	p4 NR	32,00	3,00		35,00	19,95	29,00	6,00	3,42
2770	In	1+1/	2 1/2	mm	0	p4 NR	8,00	1,00		9,00	11,52	9,00		
2774	In	2	3/4	mm	0	p4 NR	18,00	3,00		21,00	37,80		21,00	37,80
2775	In	2	1	mm	0	p4 NR	2,00			2,00	3,60	5,00	-3,00	-5,40
2782	In	3	1	mm	0	p4 NR	11,00	2,00		13,00	36,40	1,00	12,00	33,60
2784	In	3	1+1/	/2 mm	0	p4 NR	1,00			1,00	2,80	1,00		
2785	In	3	2	mm	0	p4 NR						1,00	-1,00	-2,80
				TOTAL FOR	COMPONEN	T (K g)					112,07			66,62
				101/11/101		- (** 6)	7	Fotal for negati	ive movement -		8,20 To	tal for positive r	novement +	74,82

		P	UMA5							est - Summary (1)			15/11/2010 10.56.37
							1E35 -	SULPHUREX G	H/F					
SubProject P96 / 1E35-65-1106				ategory of Go 205 / GALVA		BON STEEL	FORGED FITT	INGS				MR ID M 1060 1E	R Number 335-65-1106	MR Rev
					Le	n.			ACTUAL			PREVIOUS	NE	ED
Mark		S1	S2	T	T1. T2 m	m P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
Tee Straight TA 50.7/	2 THR	D-F NI	PT 3000#	Forged ASTN	A 105 Galva	anized								
4673	In	1/2	0	mm		0 p4 NR	6,00	1,00		7,00	1,96	11,00	-4,00	-1,12
4675	In	1	0	mm		0 p4 NR	3,00	1,00		4,00	2,28	4,00		
4678	In	2	0	mm		0 p4 NR	4,00	1,00		5,00	9,00	1,00	4,00	7,20
4680	In	3	0	mm		0 p4 NR	1,00			1,00	2,60	1,00		
				TOTAL FO	R COMPON	FNT (Ka)					15,84			6,08
				TOTAL FO	K COMI ON	ENT (Kg)		Total for negati	ve movement	-	1,12 To	tal for positive 1	novement +	7,20
Reducing Insert M/F	ΤΔ 50 7	1/2 THE	D_M NI	PT v THRD_F	3000# Forge	Ι Δ S ΤΜ Δ 1	05 Galvanized							
974		3/4	1/2		•	0 p4 NR		4,00		22,00	2,42		22,00	2,42
976	In In	1	1/2	mm		0 p4 NR 0 p4 NR	· ·	2,00		12,00	2,42		8,00	1,52
986	In	2	1	mm		0 p4 NR 0 p4 NR		2,00		1.00	,60		1.00	,60
988	In	2	1+1/2	mm		0 p4 NR	,			1,00	,90		1,00	,90
700			111,2				1,00			1,00	6,20		1,00	5,44
				TOTAL FO	R COMPON	ENT (Kg)		Total for negati	ve movement	-		tal for positive 1	novement +	5,44
	DD E 1	IDT 200)0#E	1 4 0773 5 4 1/	25.6.1			10001101 1109001				varior positivo		-,
Union TA 50.7/2 THI	RD-F N		_	ed ASTM A 10										
1275	In	1/2	0	mm		0 p4 NR		9,00		70,00	21,00			
1277	In	1	0	mm		0 p4 NR		1,00		4,00	2,60		1.00	
1279	In	1+1/2		mm		0 p4 NR	,			1,00	1,26		1,00	1,26
1280	In	2	0	mm		0 p4 NR					24.96	1,00	-1,00	-2,01
				TOTAL FO	R COMPON	ENT (Kg)					24,86		. [-,75
-								Total for negati	ve movement	-	2,01 To	tal for positive 1	novement +	1,26
Coupling Reducing T	A 50.7/	2 THRI	D-F NPT	3000# Forge	d ASTM A 10	5 Galvanize	d							
4431	In	2	1	mm		0 p4 NR						1,00	-1,00	-,10
4436	In	3	1	mm		0 p4 NR						1,00	-1,00	-,16
4439	In	3	2	mm		0 p4 NR	1.00			1.00	,16	2,00	-1.00	-,16

			PUM	A 5					N	Material Request	- Summary (1)			15/11/2010 10.56.37
								1E35 - SU	LPHUREX G	SH/F					
SubProject				Category of G	ood								MR ID M	R Number	MR Rev
P96 / 1E35-65-1106				0205 / GALVA	NIZED C	ARBO	ON STEEL	FORGED FITTING	GS				1060 1E	235-65-1106	1
						Len.				ACTUAL			PREVIOUS	N	EED
Mark		S1	S2		Γ1. T2	mm	P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
				TOTAL FO	R COMP	ONE	NT (Kg)					,16			-,42
				TOTALTO	K COM	ONE	(IIg)	T	otal for negati	ive movement -		,42 To	tal for positive i	novement +	
Cap TA 50.7/2 THRI	D-F NP	T 3000)# Fo	rged ASTM A 105	Galvanize	ed									
4567	In	1/2	0	mm		0	p4 NR	1,00			1,00	,12	1,00		
4569	In	1	0	mm		0	p4 NR	7,00	1,00		8,00	2,00	8,00		
4571	In	1+1	/2 0	mm		0	p4 NR	1,00			1,00	,75	1,00		
4572	In	2	0	mm		0	p4 NR	3,00			3,00	4,80	3,00		
4574	In	3	0	mm		0	p4 NR	2,00			2,00	6,00	2,00		
				TOTAL FO	R COMP	ONE	NT (Kø)					13,67			
				10111210	A COM	0.12	(IIg)	T	otal for negati	ive movement -		To	tal for positive i	novement +	
			Г		TOT		MD (IZ.)				-	336,84			4,57
					TOTAL MR (Kg)				tal for negativ	e movement -	9	01,95 To	tal for positive r	novement +	96,52

	Ballestra]	Material Rec	uest - Sumr	nary (1)		PROJ: 1E	35	REV: 1	15/11/2010
PUMA5			15/11	1/2010 10.57.1	.0					-		DOC: 1E	35.65.1106		
		-	PUMA	A5					М	aterial Request	- Summary (1)			15/11/2010 10.57.10
							I	1E35 - S	ULPHUREX GI		~ ·	-/			
SubProject				Category o	of Good								MR ID M	R Number	MR Rev
P96 / 1E35-65-1106				0301 / CAF			FITTINGS							35-65-1106	1
						Le	1.			ACTUAL			PREVIOUS	NE	EED
Mark		S1	S2		T1.	T2 m	n P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
45° Elbow Long Radiu	ıs ASN	/IE B1	6.9 BI	E E.R.W. AST	M A 23	4 GR. WP	В								
128	In	2+1	/2 0	mm	3,18		0 p4 NR						5,00	-5,00	-1,91
129	In	3	0	mm	3,18		0 p4 NR	6,00	1,00		7,00	4,23	2,00	5,00	3,02
130	In	4	0	mm	3,18		0 p4 NR	4,00	1,00		5,00	5,09	12,00	-7,00	-7,12
133	In	6	0	mm	3,96		0 p4 NR	1,00			1,00	2,85	1,00		
135	In	8	0	mm	4,78		0 p4 NR	4,00			4,00	26,00	4,00		
	TOTAL FOR COMP						ENT (Kg)					38,17			-6,01
	TOTAL FOR COMPONENT					01,11 01		,	Fotal for negativ	e movement -		9,03 To	tal for positive r	novement +	3,02
45° Elbow Long Radiu	ıs ASN	/IE B1	6.9 BI	E Wrought S A	ASTM A	234 GR.	WPB								
156	In	1	0	mm	3,38		0 p4 NR	7,00	1,00		8,00	,54	8,00		
158	In	1+1	/2 0	mm	3,68		0 p4 NR	6,00	1,00		7,00	1,29	2,00	5,00	,92
159	In	2	0	mm	3,91		0 p4 NR	11,00	2,00		13,00	4,07	14,00	-1,00	-,31
				TOTAL	FOR C	OMPON	ENT (Kg)					5,90			,61
				TOTAL	TORC	OIVII OIV	LIVI (ING)	,	Fotal for negativ	e movement -		,31 To	otal for positive r	novement +	,92
90° Elbow Long Radiu	ıs ASN	IE B1	6.9 BI	E E.R.W. AST	M A 23	4 GR. WP	В	•							
296	In	2+1	/2 0	mm	3,18		0 p4 NR	7,00	1,00		8,00	6,36	10,00	-2,00	-1,59
297	In	3	0		3,18		0 p4 NR	32,00	3,00		35,00	41,18	27,00	8,00	9,41
298	In	4	0	mm	3,18		0 p4 NR	40,00	4,00		44,00	90,95	34,00	10,00	20,67
301	In	6	0	mm	3,96		0 p4 NR	18,00	3,00		21,00	118,92	22,00	-1,00	-5,66
303	In	8	0	mm	4,78		0 p4 NR	37,00	4,00		41,00	489,95	44,00	-3,00	-35,85
	TOTAL FOR COMPONENT (F						ENT (Kg)					747,36			-13,02
	TOTAL FOR COMPONENT (I							,	Fotal for negativ	e movement -	4	3,10 To	otal for positive r	novement +	30,08

		P	UMA5								Iaterial Request	- Summary (1	1)		1	15/11/2010 10.57.10
									1E35 - S	ULPHUREX G	H/F					
SubProject				ategory o										MR ID M		MR Rev
P96 / 1E35-65-1106			03	01 / CAF	RBON	STEEL	BW F	FITTINGS						1070 1E	35-65-1106	1
							Len.				ACTUAL			PREVIOUS	NE	ED
Mark		S1	S2		T1.	T2	mm	P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
90° Elbow Long Rad	ius ASN	1E B16	.9 BE Wro	ought S A	ASTM A	A 234 C	SR. W	PB								
323	In	3/4	0	mm	2,87		0	p4 NR	24,00	5,00		29,00	2,50	29,00		
324	In	1	0	mm	3,38		0	p4 NR	70,00	7,00		77,00	10,41	87,00	-10,00	-1,35
326	In	1+1/2	2 0	mm	3,68		0	p4 NR	52,00	3,00		55,00	20,24	56,00	-1,00	-,37
327	In	2	0	mm	3,91		0	p4 NR	60,00	6,00		66,00	43,87	64,00	2,00	1,33
				TOTAL	FOR (СОМР	ONE	NT (Kg)					77,02			-,39
				101/12	TOR	COM	OTTE	(IIg)	ר	Total for negati	ve movement -		1,72 To	tal for positive r	novement +	1,33
Reducer Concentric A	ASME E	316.9 B	E E.R.W.	ASTM A	234 G	R. WP	В	,								
6084	In	3	1	mm	3,18	3,38	0	p4 NR	1,00			1,00	,57		1,00	,57
1644	In	3	1+1/4	mm	3,18	3,56	0	p4 NR	1,00			1,00	,57		1,00	,57
1646	In	3	2	mm	3,18	3,91	0	p4 NR	2,00			2,00	1,14	1,00	1,00	,57
1647	In	3	2+1/2	mm	3,18	3,18	0	p4 NR	1,00			1,00	,57		1,00	,57
1650	In	4	2+1/2	mm	3,18	3,18	0	p4 NR	4,00	1,00		5,00	4,29	3,00	2,00	1,72
1651	In	4	3	mm	3,18	3,18	0	p4 NR						2,00	-2,00	-1,72
1662	In	6	4	mm	3,96	3,18	0	p4 NR	3,00			3,00	6,53	3,00		
1666	In	8	4	mm	4,78	3,18	0	p4 NR	4,00			4,00	15,30	3,00	1,00	3,82
1668	In	8	5	mm	4,78	3,18	0	p4 NR						1,00	-1,00	-3,82
1671	In	8	6	mm	4,78	3,96	0	p4 NR	4,00			4,00	15,30		4,00	15,30
				TOTAL	FOR (COMP	ONE	NT (Kg)					44,28			17,59
				101.12	1011	001,11	0112	(118)	7	Total for negati	ve movement -		5,54 To	tal for positive 1	novement +	23,13
Reducer Concentric A	ASME E	316.9 B	E Wrough	nt S AST	M A 23	4 GR. V	WPB									
1748	In	3/4	1/2	mm	2,87	2,77	0	p4 NR	2,00			2,00	,11	2,00		
1749	In	1	1/2	mm		2,77	0	•	8,00	2,00		10,00	1,35	7,00	3,00	,41
1754	In	1+1/2	2 1/2	mm	3,68	2,77	0	p4 NR	1,00			1,00	,26	1,00		
1756	In	1+1/2	2 1	mm	3,68	3,38	0	p4 NR	5,00	1,00		6,00	1,55	3,00	3,00	,77
1759	In	2	1	mm	3,91	3,38	0	p4 NR	2,00			2,00	,86		2,00	,86
1761	In	2	1+1/2	mm	3.91	3,68	0	p4 NR	4,00	1,00		5,00	2,15	3,00	2,00	,86

			PUMA5							I	Material Request	- Summary (1)			15/11/2010 10.57.10
									1E35 - SU	LPHUREX (GH/F					
SubProject P96 / 1E35-65-110	06			Category o			BW FI	TTINGS						MR ID M	R Number 35-65-1106	MR Rev
							Len.				ACTUAL			PREVIOUS	NI	EED
Mark		S1	S2		T1.	T2	mm	P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
				TOTAL	FOR (СОМРО	NEN	Τ (Κσ)					6,28			2,90
				101112	TOIL	COMI); (<u>D</u> ; (1 (116)	Te	otal for negat	ive movement -		To	otal for positive r	novement +	2,90
Reducer Eccentric	ASME B1	6.9 B	E E.R.W.	ASTM A	234 GR	a. WPB		,								
5775	In	2+1	1/2 1+1/2	mm	3,18	3,68	0	p4 NR	2,00			2,00	,95		2,00	,9;
2072	In	3	2		3,18			p4 NR	1,00			1,00	,57		1,00	,51
2073	In	3	2+1/2	mm	3,18	3,18	0	p4 NR	1,00			1,00	,57	1,00		
2075	In	4	2+1/2	mm	3,18	3,18	0	p4 NR						1,00	-1,00	-,80
2086	In	6	3	mm	3,96	3,18	0	p4 NR	1,00			1,00	2,18		1,00	2,18
2091	In	8	4	mm	4,78	3,18	0	p4 NR						1,00	-1,00	-3,82
2093	In	8	5	mm	4,78	3,18	0	p4 NR	4,00			4,00	15,30	3,00	1,00	3,82
2096	In	8	6	mm	4,78	3,96	0	p4 NR						3,00	-3,00	-11,47
				TOTAL	FOR (COMPO	NEN	Τ (Κσ)					19,57	,		-8,63
				TOTAL	TOR	COMI)1 1 1 1	I (IIg)	Te	otal for negat	ive movement -	1	6,15 To	otal for positive r	novement +	7,53
Cap ASME B16.9	BE Seaml	ess AS	STM A 23	34 GR. WP	В			,								
4457	In	1+1	1/2 0	mm	3,68		0	p4 NR	1,00			1,00	,18	1,00		
4458	In	2	0	mm	3,91		0	p4 NR	3,00			3,00	,94	3,00		
4459	In	2+1	1/2 0	mm	3,18		0	p4 NR	6,00	1,00		7,00	2,23	7,00		
4460	In	3	0	mm	3,18		0	p4 NR	1,00			1,00	,41	1,00		
4461	In	4	0	mm	3,18		0	p4 NR	1,00			1,00	,86	1,00		
				TOTAL	FOR 4	COMP	NEN	T (Kg)		<u>'</u>			4,62			
				TOTAL	TORV	COMIT). 1121 1	i (iig)	Te	otal for negat	ive movement -		To	otal for positive r	novement +	
						тот	AT 3.5	D (V-)					943,20			-6,90
						101	AL M	R (Kg)	Tot	tal for negativ	ve movement -	7	'5.86 To	tal for positive n	novement +	68,91

	Bal	lestra	l.					N	Taterial Requ	ıest - Sum	nmary (1)		PROJ: 11	E35	REV: 1	15/11/2010
PUMA5			15/11	/2010 10.57.4	18				-		• • •		DOC: 11	E35.65.1106		•
		1	PUMA	15]	Material Request	- Summary (1	1)			15/11/2010 10.57.48
									1E35 - SU	LPHUREX (,		l .	
SubProject				Category o	of Good									MR ID M	R Number	MR Rev
P96 / 1E35-65-1106				0302 / STA	INLESS	S STEEL	BW F	TTTING	S					1080 1E	235-65-1106	1
						L	en.				ACTUAL			PREVIOUS	NI	EED
Mark		S1	S2		T1.	T2 n	nm P	.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
45° Elbow Long Radi	us ASN	/IE B16	5.9 BI	E Wrought S A	ASTM A	403 GR.	WP3	16								
165	In	3/4	0	mm	2,87		0 1	p4 NR	2,00			2,00	,0	6	2,00	,06
				TOTAL	FOR C	COMPON	IENT	'(K g)					,0	5		,06
				101.12		01.11	,22,12	(8)	To	otal for negat	tive movement -	-	T	otal for positive 1	movement +	,06
45° Elbow Long Radi	us ASN	⁄IЕ В16	5.9 BI	E Wrought W	ASTM A	A 403 GR	2. WP:	316								
183	In	2+1	/2 0	mm	2,11		0 1	p4 NR	2,00			2,00	,5	2,00		
185	In	4	0	mm	2,11			p4 NR	4,00			4,00	2,7		4,00	2,76
187	In	6	0	mm	2,77		0 1	p4 NR	4,00			4,00	8,1	4,00		
				TOTAL	FOR C	COMPON	NENT	(Kg)					11,4	1		2,76
								ŷ	Te	otal for negat	tive movement -		T	otal for positive i	movement +	2,76
90° Elbow Long Radi	us ASN	⁄IЕ В16	5.9 BI	E Wrought S A	ASTM A	403 GR.	WP3	16								
333	In	3/4	0	mm	2,87		0 1	p4 NR	7,00	1,00		8,00	,7	0 14,00	-6,00	-,53
				TOTAL	FOR C	COMPON	JENT	(K ø)	·				,7	0		-,53
				101112	on c) O I I I O I	12111	(116)	T	otal for negat	tive movement -	-	,53 T	otal for positive i	movement +	
90° Elbow Long Radi	us ASN	⁄IЕ В16	5.9 BI	E Wrought W	ASTM A	A 403 GR	2. WP:	304								
342	In	6	0	mm	2,77		0 1	p4 NR	2,00			2,00	8,0	3,00	-1,00	-4,04
343	In	8	0	mm	2,77		0 1	p4 NR	3,00			3,00	21,2	2,00	1,00	7,07
				TOTAL	FOR	COMPON	IENT	(Kg)					29,2	8		3,02
								. 0/	To	otal for negat	tive movement -		4,04 T	otal for positive 1	movement +	7,07
90° Elbow Long Radi	us ASN	⁄IE В16	6.9 BI	E Wrought W	ASTM A	A 403 GR	2. WP	316								
351	In	2+1	/2 0	mm	2,11		0 1	p4 NR	20,00	2,00		22,00	11,8	4 10,00	12,00	6,46
352	In	3	0	mm	2,11		0 1	p4 NR	9,00	1,00		10,00	7,9	7 4,00	6,00	4,78

]	PUMA	.5							Aaterial Request	- Summary (1)			15/11/2010 10.57.48
									1E35 - SU	JLPHUREX G	SH/F					
SubProject P96 / 1E35-65-1	106			Category o			EL BV	V FITTING	SS					MR ID M	R Number 335-65-1106	MR Rev
							Len.				ACTUAL			PREVIOUS	NE	EED
Mark		S1	S2		T1.	T2	mm	P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
353	In	4	0	mm	2,11		0	p4 NR	10,00			10,00	13,99	4,00	6,00	8,40
355	In	6	0	mm	2,77		0	p4 NR	17,00	1,00		18,00	72,75		7,00	28,29
				TOTAL	FOR	СОМР	ONE	NT (Kg)					106,55			47,93
								ν θ/	T	otal for negati	ive movement -		То	tal for positive i	novement +	47,93
Reducer Concen	ntric ASME E	316.9 E	BE Wı	ought S AST	M A 40	3 GR. V	WP31	6								
1776	In	3/4	1/2	2 mm	2,87	2,77	0	p4 NR	3,00			3,00	,18		3,00	,18
				TOTAL	FOR (СОМР	ONE	NT (Ka)					,18			,18
				TOTAL	TOR	COMI	ONE	(Kg)	Т	otal for negati	ive movement -		То	tal for positive i	novement +	,18
Reducer Concen	ntric ASME E	316.9 E	BE Wı	ought W AST	ΓM A 40	03 GR.	WP30	04								
1806	In	8	6	mm	2,77	2,77	0	p4 NR	2,00			2,00	4,52		2,00	4,52
				TOTAL	FOR (СОМР	ONFI	NT (Ka)	<u> </u>				4,52			4,52
				TOTAL	TOR	COMI	OIVE	(IXg)	T	otal for negati	ive movement -		То	tal for positive i	novement +	4,52
Reducer Eccentr	ric ASME B1	6.9 BI	E Wro	ught W ASTN	M A 403	3 GR. V	VP304	4								
2231	In	8	6	mm	2,77	2,77	0	p4 NR						2,00	-2,00	-4,52
				TOTAL	FOR	СОМР	ONEI	NT (Kø)								-4,52
				101112		001/11	0112	(IIg)	T	otal for negati	ive movement -		4,52 To	tal for positive i	novement +	
Stub-End MSS S	SP-43 FLG x	BE W	rough	t S ASTM A	403 GR	. WP30)4 Typ	pe A								
1207	In	1/2	0	mm	2,77		0	p4 NR	2,00			2,00	,17	2,00		
				TOTAL	FOD (COMP	ONE	NT (Ka)	<u>. </u>				,17			
				TOTAL	TOR	COMI	ONE	(IXg)	Т	otal for negati	ive movement -		To	tal for positive i	novement +	
Stub-End MSS S	SP-43 FLG x	BE W	rough	t S ASTM A	403 GR	. WP31	6 Тур	pe A								
1213	In	1/2	0	mm	2,77		0	p4 NR	19,00	2,00		21,00	1,78	7,00	14,00	1,19
1214	In	3/4	0	mm	2,87		0	p4 NR	10,00	2,00		12,00	1,23	17,00	-5,00	-,5
				TOTAL	FOR 0	СОМР	ONE	NT (Kg)					3,01			,67
								. 8/	T	otal for negati	ive movement -		,51 To	tal for positive i	novement +	1,19

]	PUMA	.5					Material Request	- Summary	1)			15/11/2010 10.57.48
							1E35 - SI	ULPHUREX G	GH/F					
SubProject				Category o	of Good							MR ID M	R Number	MR Rev
P96 / 1E35-65-1106				0302 / STA	INLESS	STEEL BW FITTING	GS					1080 1E	35-65-1106	1
						Len.			ACTUAL			PREVIOUS	N]	EED
Mark		S1	S2		T1.	T2 mm P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
Stub-End MSS SP-43	FLG x	BE W	rough	t W ASTM A	403 GR	. WP304 Type A								
1220	In	3	0	mm	2,11	0 p4 NR	1,00			1,00	,40	1,00		
1223	In	6	0	mm	2,77	0 p4 NR	2,00			2,00	2,66	2,00		
1224	In	8	0	mm	2,77	0 p4 NR	4,00			4,00	8,03	4,00		
1225	In	10	0	mm	3,4	0 p4 NR	4,00			4,00	14,57	6,00	-2,00	-7,29
				TOTAL	FOR C	OMPONENT (Kg)					25,65			-7,29
				101112	TORC	OMI ONE (IIg)	Т	Total for negati	ive movement -		7,29 To	tal for positive r	novement +	
Stub-End MSS SP-43	FLG x	BE W	rough	t W ASTM A	403 GR	. WP316 Type A								
1232	In	2+1/	2 0	mm	2,11	0 p4 NR	11,00	1,00		12,00	3,88	11,00	1,00	,32
1233	In	3	0	mm	2,11	0 p4 NR	4,00			4,00	1,60	4,00		
1234	In	4	0	mm	2,11	0 p4 NR	17,00	1,00		18,00	11,24	8,00	10,00	6,24
1236	In	6	0	mm	2,77	0 p4 NR	7,00	1,00		8,00	10,63	9,00	-1,00	-1,33
				TOTAL	FOR C	OMPONENT (Kg)					27,34			5,24
							T	Total for negati	ive movement -		1,33 To	tal for positive r	novement +	6,57
						TOTAL MD (V =)					208,88			52,04
						TOTAL MR (Kg)	To	otal for negativ	ve movement -		18,22 Tot	tal for positive n	novement +	70,26

	Bal	llestra				N	Iaterial Req	uest - Sumn	nary (1)		PROJ: 1E	35	REV: 1	15/11/2010
PUMA5		1	5/11	/2010 10.58.23			_				DOC: 1E	35.65.1106	•	
		P	UMA	.5				Ma	terial Request	t - Summary (1)		1	15/11/2010 10.58.23
						I	1E35 - SI	JLPHUREX GH		•	<i></i>		l .	
SubProject				Category of Goo	d							MR ID M	R Number	MR Rev
P96 / 1E35-65-1106				0401 / CARBON	STEEL FLANC	GES						1090 1E	35-65-1106	1
					Len.				ACTUAL			PREVIOUS	NE	ED
Mark		S1	S2	T1.	T2 mm	P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
Flange Blind ASME I	316.5 1	50 LB I	RF (1	25÷250 AARH) For	ged ASTM A 1	.05								
403	In	1+1/2	2 0	mm	0	p4 NR	1,00			1,00	1,60		1,00	1,60
				TOTAL FOR	COMPONEN	T (Ka)		•	•		1,60			1,60
				TOTAL FOR	COMI ONEM	I (IXg)	Т	otal for negative	e movement -	-	То	tal for positive r	novement +	1,60
Flange Slip-On ASMI	EB16.5	5 150 L1	BRF	(125±250 AARH) F	Forged ASTM A	A 105					<u>-</u>		<u> </u>	
465	In	1/2	0	mm	C	p4 NR	23,00	2,00		25,00	10,00	21,00	4,00	1,60
466	In	3/4	0	mm		p4 NR	2,00	2,00		2,00	1,40	2,00	1,00	1,00
467	In	1	0	mm		p4 NR	27,00	3,00		30,00	24,00	27,00	3,00	2,40
469	In	1+1/2	2 0	mm	0	p4 NR	14,00	1,00		15,00	21,00	14,00	1,00	1,40
470	In	2	0	mm	0	p4 NR	24,00	2,00		26,00	57,20	33,00	-7,00	-15,40
472	In	3	0	mm		p4 NR	18,00	1,00		19,00	77,90	22,00	-3,00	-12,30
473	In	4	0	mm		p4 NR	11,00	1,00		12,00	67,20	16,00	-4,00	-22,40
475	In	6	0	mm		p4 NR	15,00	2,00		17,00	127,50	· · · · · · · · · · · · · · · · · · ·	-1,00	-7,50
476	In	8	0	mm	0	p4 NR	28,00	1,00		29,00	365,40	30,00	-1,00	-12,60
				TOTAL FOR	COMPONENT	T (Kg)					751,60			-64,80
-							Т	otal for negative	e movement -	- 7	0,20 To	tal for positive r	novement +	5,40
Flange Slip-On x Waf	er ASN	ИЕ B16	.5 150	0 LB FF (125÷250 A	AARH) Forged	ASTM A	105							
4728	In	4	0	mm	0	p4 NR	6,00	1,00		7,00	39,20	7,00		
				TOTAL FOR	COMPONEN	Τ (Κσ)					39,20			
				TOTALLOR	COM OTHER	- (5)	Т	otal for negative	e movement ·	-	То	tal for positive r	novement +	
					momar 35	D (II)					792,40			-63,20
					TOTAL MI	K (Kg)	To	tal for negative	movement -	7		tal for positive n	novement +	7,00
			L							<u> </u>		F		7,00

	Bal	llestra					N	Aaterial Red	quest - Sum	mary (1)		PROJ: 1E	35	REV: 1	15/11/2010
PUMA5		1	15/1	1/2010 10.59.01					•	•		DOC: 1E	35.65.1106	•	•
		I	PUM	A5	-				1	Material Reque	st - Summary (1)			15/11/2010 10.59.01
							•	1E35 - S	SULPHUREX (SH/F					
SubProject				Category of Goo	od								MR ID MI	R Number	MR Rev
P96 / 1E35-65-1106				0405 / GALVAN	IIZED (CARBO	N STEEL	FLANGES					1110 1E3	35-65-1106	1
						Len.				ACTUAL			PREVIOUS	NI	EED
Mark		S1	S	2 T1	. T2	2 mm	P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
Flange ASME B16.5	ΓHRD-	F NPT	150	LB RF (125÷250 A	ARH) I	Forged A	ASTM A 1	05 Galvanized							
390	In	1/2	0	mm		0	p4 NR	2,00			2,00	,80	2,00		
				TOTAL FOR	COMI	PONEN	NT (Kg)					,80			
				101112101		01121	(11g)		Total for negat	ive movement	-	То	tal for positive n	novement +	
Flange Lap-Joint ASM	1E B16	5.5 150	LB I	Flat Face Smooth For	rged AS	STM A	105 Galva	nized							
446	In	1/2	0	mm		0	p4 NR	21,00	2,00		23,00	9,20	9,00	14,00	5,60
447	In	3/4	0	mm		0	p4 NR	10,00	2,00		12,00	8,40	17,00	-5,00	-3,50
452	In	2+1/	2 0	mm		0	p4 NR	11,00	1,00		12,00	43,20	11,00	1,00	3,60
453	In	3	0	*****		0	r	5,00			5,00	20,50			
454	In	4	0	mm		0	r	17,00	2,00		19,00	106,40	- ,	10,00	56,00
456	In	6	0	*****		0	r	9,00	1,00		10,00	75,00	11,00	-1,00	-7,50
457	In	8	0	mm		0	p4 NR	4,00			4,00	50,40			
458	In	10	0	mm		0	p4 NR	4,00			4,00	74,00	6,00	-2,00	-37,00
				TOTAL FOR	COMI	PONEN	NT (Kg)					387,10			17,20
									Total for negat	ive movement	- 4	-8,00 To	tal for positive n	novement +	65,20
					то	TALE	(D (V =)					387,90			17,20
					10	IAL N	IR (Kg)	Т	otal for negativ	ve movement ·	- 4	-8,00 To	tal for positive m	novement +	65,20

	Bal	llestra				I	Material Req	uest - Sumi	nary (1)		PROJ: 1E	35	REV: 1	15/11/2010
PUMA5			15/11/	2010 11.05.21			_	•	•		DOC: 1E	35.65.1106		•
		I	PUMA:	5				M	aterial Request	- Summary (1)		1	15/11/2010 11.05.21
							1E35 - S	ULPHUREX G		~ j (.	-)			
SubProject				Category of Goo	nd							MR ID MI	R Number	MR Rev
P96 / 1E35-65-1106				0601 / BOLTS	,,,								35-65-1106	1
					Len.				ACTUAL			PREVIOUS	NIE	ED
Mark		S1	S2	T1.		P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
Stud Bolt + 2 Nuts TA	A 50.48	B/28 A	SME	B18.2.1 UNC/2.2 T	ΓAB. 9 ASTM	A 193 B7	/ASTM A 194 GR	2H						J
5191	In	1/2		mm	65			4.00		74,00	8,14	67,00	7,00	,77
5192	In	1/2	0	mm	70			5,00		107,00	11,77	97,00	10,00	1,10
5193	In	1/2	0	mm	75	1	56,00	3,00		59,00	7,08	55,00	4,00	,48
5199	In	5/8	0	mm	85	p4 NR	82,00	4,00		86,00	18,06	99,00	-13,00	-2,73
5201	In	5/8	0	mm	95	p4 NR	114,00	6,00		120,00	27,60	136,00	-16,00	-3,68
5204	In	5/8	0	mm	110	p4 NR	20,00	2,00		22,00	5,50	22,00		
5209	In	5/8	0	mm	140	p4 NR	16,00	2,00		18,00	5,22	18,00		
5210	In	5/8	0	mm	145	p4 NR	24,00	1,00		25,00	7,50	25,00		
5214	In	3/4	0	mm	100	p4 NR	36,00	2,00		38,00	31,92	34,00	4,00	3,36
5216	In	3/4	0	mm	110	p4 NR	168,00	8,00		176,00	154,88	168,00	8,00	7,04
5223	In	3/4	0	mm	155	p4 NR	48,00	2,00		50,00	53,00	59,00	-9,00	-9,54
5225	In	3/4	0	mm	170	p4 NR	32,00	5,00		37,00	41,44	37,00		
				TOTAL FOR	COMPONE	NT (Va)					372,11			-3,20
				TOTAL FOR	COMI ONE	(Kg)	Т	Total for negativ	ve movement -	1	5,95 To	tal for positive n	novement +	12,75
Stud Bolt + 2 Nuts TA	A 50.48	B/28 A	SME	B18.2.1 UNC/2.2 T	ΓAB. 9 ASTM	A 193 B7	/A194 2H Galvani	ized						
5125	In	1/2	0	mm	65	p4 NR	24,00	2,00		26,00	2,86	26,00		
5127	In	1/2	0	mm	75	-		6,00		124,00	14,88	57,00	67,00	8,04
5136	In	5/8	0	mm	100	p4 NR	40,00	4,00		44,00	10,12	35,00	9,00	2,07
5137	In	5/8	0	mm	105	p4 NR	16,00	1,00		17,00	4,08	17,00		
5138	In	5/8	0	mm	110	p4 NR	136,00	7,00		143,00	35,75	67,00	76,00	19,00
5146	In	3/4	0	mm	110	p4 NR	-8,00	-2,00		-10,00	-8,80		-10,00	-8,80
5147	In	3/4	0	mm	115	p4 NR	96,00	5,00		101,00	90,90	84,00	17,00	15,30
5150	In	3/4	0	mm	130	p4 NR	24,00	4,00		28,00	26,88	28,00		
5155	In	3/4	0	mm	170	p4 NR	8,00	2,00		10,00	11,20	10,00		

		F	PUMA5	3						st - Summary (1)			15/11/2010 11.05.21
							1E35 - S	SULPHUREX G	H/F					
SubProject				Category of Good								MR ID M	R Number	MR Rev
P96 / 1E35-65-1106				0601 / BOLTS								1130 1E	235-65-1106	1
					Len.				ACTUAL			PREVIOUS	NE	ED
Mark		S1	S2	T1.	T2 mm	P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
5158	In	7/8	0	mm	140	p4 NR	84,00	4,00		88,00	56,32	76,00	12,00	7,68
				TOTAL FOR CO	MPONE	JT (Kg)					244,19			43,29
				TOTALTOR CO	JIMI OINE	(IIg)	1	Total for negativ	e movement	-	8,80 To	tal for positive i	movement +	52,09
Screws for valves ASI	ME B 1	8.2.1 /U	JNC A	ASTM A 193 B7										
5374	In	1/2	0	mm	35	p4 NR	24,00	4,00		28,00	2,24	28,00		
5376	In	5/8	0	mm	40	p4 NR	96,00	5,00		101,00	15,15	101,00		
5377	In	5/8	0	mm	45	p4 NR	16,00	2,00		18,00	2,88	18,00		
5379	In	3/4	0	mm	50	p4 NR	32,00	5,00		37,00	24,05	37,00		
				TOTAL FOR CO	MPONEN	JT (Kg)	·	·			44,32			
				TOTAL FOR CO	JIMI ONE	(IXg)	1	Total for negativ	e movement	-	To	tal for positive i	movement +	
Screws for valves ASI	ME B 1	8.2.1 /U	JNC A	ASTM A 193 B7 Galva	anized	<u> </u>								
5381	In	1/2	0	mm	30	p4 NR	48,00	2,00		50,00	4,00	50,00		
5384	In	5/8	0	mm	40		32,00	2,00		34,00	5,10	17,00	17,00	2,55
				TOTAL FOR CO	MDONEN	IT (IZ -)	1	<u>'</u>			9,10			2,55
				TOTAL FOR CO	DMPONE	NI (Kg)	ı	Total for negativ	e movement	-	To	tal for positive i	movement +	2,55
					TOTAL	(D (V -)					669,72			42,64
					TOTAL N	ik (Kg)	Т	otal for negative	movement -	. 2	24,75 To	tal for positive r	novement +	67,39

	Ba	llestra	a			N	Iaterial Requ	uest - Sumn	ary (1)		PROJ: 11	E35	REV: 1	15/11/2010
PUMA5			15/11	/2010 11.06.19			-		•		DOC: 11	E35.65.1106	•	•
		•	PUMA	15				Ma	terial Request	- Summary (1)		1	5/11/2010 11.06.19
							1E35 - SU	JLPHUREX GH		~				
SubProject				Category of Good								MR ID MI	R Number	MR Rev
P96 / 1E35-65-1106				0701 / GASKET								1140 1E	35-65-1106	1
					Len.				ACTUAL			PREVIOUS	NE	ED
Mark		S1	S2	T1.	T2 mm	P.L. U.m	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
Gasket TA 50.5/31 15	0 LB I	RF (12	5÷250	AARH) _ B5C										
659	In	1/2	0	mm	0	p4 NR	16,00	5,00		21,00		19,00	2,00	
660	In	3/4	0	mm	0	p4 NR	2,00	1,00		3,00		3,00		
661	In	1	0	mm	0	p4 NR	27,00	8,00		35,00		36,00	-1,00	
663	In	1+1	1/2 0	mm	0	p4 NR	9,00	4,00		13,00		12,00	1,00	
664	In	2	0	mm	0	p4 NR	6,00	3,00		9,00		9,00		
666	In	3	0	mm	0	p4 NR	9,00	3,00		12,00		14,00	-2,00	
667	In	4	0	mm	0	p4 NR	4,00	2,00		6,00		6,00		
				TOTAL FOR C	OMPONEN	T (Kg)	Т	otal for negative	movement -		Т	otal for positive n	novement +	
Gasket TA 50.5/31 15	OIRI	DE (12	5 · 250	AADH) R5R								<u> </u>		
					0	4 ND	2.00	1.00		2.00			2.00	
691	In		0	mm		p4 NR	2,00	1,00		3,00		11.00	3,00	
695 696	In		1/2 0	mm		p4 NR	7,00	4,00		11,00		11,00 41,00	-4,00	
	In	3	0	mm	0	p4 NR	25,00	12,00		37,00		10,00	-4,00	
698	In		0	mm		p4 NR	6,00	4,00		10,00			1.00	
699 701	In	6	0	mm	0	p4 NR p4 NR	11,00 5,00	6,00 5,00		17,00		18,00 8,00	-1,00 2,00	
702	In	8	0	mm		p4 NR	22,00	11,00		33,00		31,00	2,00	
702	In	0	U	mm	0	p4 NK	22,00	11,00		33,00		31,00	2,00	
				TOTAL FOR C	OMPONEN	T (Kg)	T	otal for negative	movement -		т	otal for positive n	novement +	
C 1 / TA 50 5/21 15	O I D I	DE /12	5.050	AADID DEE				oui for negative	movement -		1	otal for positive ii	ioveniciit T	
Gasket TA 50.5/31 15 710					0	p4 NR	20,00	6,00		26,00		12,00	14,00	
710	In	3/4		mm			20,00	*		30,00		23,00	7,00	
716	In			mm		p4 NR		10,00						
/10	In	2+1	1/2 0	mm	0	p4 NR	12,00	6,00		18,00		13,00	5,00	

		I	PUMA:	5						Material Reques	st - Summary (1)			15/11/2010 11.06.19
								1E35 -	SULPHUREX	GH/F					
SubProject				Category of G	ood								MR ID M	IR Number	MR Rev
P96 / 1E35-65-1106				0701 / GASKE	T								1140 11	E35-65-1106	1
						Len.				ACTUAL			PREVIOUS	NI	EED
Mark		S1	S2	7	Г1.	T2 mm	P.L. U.n	Take Off	Surplus	Manual	Tot Qty	Tot. W. (Kg)	Qty	Quantity	Weight (Kg)
717	In	3	0	mm		0	p4 NR	4,00	2,00		6,00		6,00		
718	In	4	0	mm		0	p4 NR	17,00	8,00		25,00		12,00	13,00	
720	In	6	0	mm		0	p4 NR	12,00	6,00		18,00		15,00	3,00	
721	In	8	0	mm		0	p4 NR	4,00	2,00		6,00		6,00		
722	In	10	0	mm		0	p4 NF	8,00	5,00		13,00		10,00	3,00	
				TOTAL FO	R CO	OMPONE	NT (Kg)								
							. (8)		Total for nega	tive movement	-	To	otal for positive	movement +	
						TOTAL N	MR (Kg)	,	Fotal for negati	ve movement -		To	otal for positive	movement +	