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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN.		BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C			inlet	outlet					
MBB20BS005	EXHAUST SILENCER							1CS38474-5	HIAK			
KS01	EXHAUST AIR SILENCER											
MBJ10AE005	STARTER MOTOR								ABB ISY	ABB MOTORS M2BA315MLA	1170	
-K01	STARTER MOTOR							2407 476-1		ABB MOTORS M2BA315MLA	t	
-M01	TERMISTOR							2407 476-1				
									033			
MBJ10GU001	FREQUENCY CONVERTER								ABB ISY	ABB INDUSTRY		
-U01	FREQUENCY CONVERTER											
								3800310-8		ACS607-260-3000C120000		
MBT10AA003	ISOLATION VALVE									PARKER HANNIFIN M12A-B8LJ-SS		
KA01	BALL VALVE							2033 329-1				
MBT10AA005	BLEED VALVE 1 COMPRESSED AIR BUTTERFLY VALVE			10	300			2511 163-1		GUSTAV FAGERBERG AB	140	
MS01	ACTUATOR							2511 163-1		GEFA HG1. 6666HM		DN300, PN10.
-S11	LIMIT SWITCH							2511 163-1		FLOWMATE/NORBRO 42RDB40		
-S21	LIMIT SWITCH							2511 163-1		K-CONTROLS 007-M1		Bleed valve AA005 open.
-Y01	SOLENOID VALVE							2511 163-1		K CONTROLS 007-M1 ASCO ½"SCB 316A		Bleed valve AA005 closed.
MBT10AA007	ISOLATION VALVE									PARKER HANNIFIN M12A-B8LJ-SS		
KA01	BALL VALVE							2033 329-1				
MBT10AA010	BLEED VALVE 2 COMPRESSED AIR POSITION TRANSDUCER							2511 164-1		GUSTAV FAGERBERG AB	80	
-B01	POSITION TRANSDUCER							2511 164-1		SIEMENS SIPART PS2-6DRS020		Bleed valve 2 position

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig		YAMAMA CEMENT	MBB, MBJ, MBT
Checked by Göran Andersson 2005-10-26	Rev	03.11.12	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.03.04	HG 9100	Lang. E
Prepared by S.MALMLÖV	Rev	05.09.07	Doc. no	Sheet 1
	Rev	07.01.12	2046037	Tot. 72
AGGREGATE LIST				

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN.		BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C			inlet	outlet					
-B02	POSITION UNIT			-	-	-	-	-	-	SIEMENS SIPART	-	Position feedback.
KA01	BUTTERFLY VALVE			16	250	-	-	2511 164-1	-	PS2-6DR5020 GEFA	-	DN250, PN16
MS01	ACTUATOR			-	-	-	-	2511 164-1	-	HG1.6666HM FLOWMATE/NORBRO	-	-
-Y01	SOLENOID VALVE			-	-	-	-	2511 164-1	-	40RDB40 ASCO	-	-
				-	-	-	-	2511 164-1	-	½"SCG553A405 24 VDC	-	-
MBT10AE005	GUIDE VANE CONTROL								SKF MULTITEC			
-B01	POSITION TRANSDUCER			-	-	-	-	2510806-1	-	-	-	INLET GUIDE VANE POSITION
-M01	SERVO MOTOR			-	-	-	-	-	-	RVDT±60° MOOG	-	-
				-	-	-	-	-	-	9404539(L10)	-	-
MBT10AV005	IGNITION SYSTEM											
-E01	IGNITION PLUG			-	-	-	-	-	-	CHAMPION	-	-
-T01	IGN.EXCITER			-	-	-	-	2404 045-1	-	FHE 246-4 CHAMPION	-	-
				-	-	-	-	2404 819-1	-	305076	-	-

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Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig		YAMAMA CEMENT	MBB, MBJ, MBT
Checked by Göran Andersson 2005-10-26	Rev	03.11.12	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.03.04	HG 9100	Lang. E
Prepared by S.MALMLÖV	Rev	05.09.07	Doc. no	Sheet 2
	Rev	07.01.12	2046037	Tot. 72
AGGREGATE LIST				
POWER TURBINE-/ STARTING-/ GAS GENERATOR- SYSTEM				
SIEMENS				

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBH10AC005	SEAL/PURGE AIR COOLER	16	400					ECODYNE	ECODYNE	-	HG5303
-											
-	PURGE AIR COOLER		40	80	80	FLANGE	SS 2353	-	-	-	180kW
-						FLANGE		-	EK 2052/760-6/2	-	
-	SEAL AIR COOLER		40	32	32	FLANGE	SS 2353	-	-	-	100kW
-						FLANGE		-	EK 2052/456-6/2	-	
MBH10AN005	ELECTRICAL FAN							ECODYNE	WOODS	-	IP55 HG5303 UNIT 1-5
-											
-M01	ELECTRICAL MOTOR							-	80 JMFLP 25/6/9/28	-	
-								-	ABB	-	
-								-	M3AA 100L	-	
MBH10AN005	ELECTRICAL FAN							ECODYNE	FERRARI	-	IP55 HG5303 UNIT 6-9
-											
-M01	ELECTRICAL MOTOR							-	EF805/G44/AU	-	
-								-	ABB	-	
-								-	M3AA 100L	-	
MBH10AN010	ELECTRICAL FAN							ECODYNE	WOODS	-	IP55 HG5303 UNIT 1-5
-											
-M01	ELECTRICAL MOTOR							-	80 JMFLP 25/6/9/28	-	
-								-	ABB	-	
-								-	M3AA 100L	-	
MBH10AN010	ELECTRICAL FAN							ECODYNE	FERRARI	-	IP55 HG5303 UNIT 6-9
-											
-M01	ELECTRICAL MOTOR							-	EF805/G44/AU	-	
-								-	ABB	-	
-								-	M3AA 100L	-	
MBH10BP005	ORIFICE AIR	16	130					SAPA SERVICE	PERMASCAND	-	16 mm, HG4011
-											
KA01	ORIFICE PLATE						SS 2343-02	-	-	-	
-							2022 053-2	-	-	-	
MBH10BP010	ORIFICE AIR	8	235					SAPA SERVICE	PERMASCAND	-	77.5 mm, HG4011
-											
KA01	ORIFICE PLATE						SS 2343-02	-	-	-	
-							2022 051-2	-	-	-	
MBH10BP015	ORIFICE AIR	4	125					SAPA SERVICE	PERMASCAND	-	50.3 mm, HG4011
-											
KA01	ORIFICE PLATE						SS 2343-02	-	-	-	
-							2022 052-2	-	-	-	

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Remark -	year-month-day		Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	COOLING / SEALING AIR SYSTEM	YAMAMA CEMENT	MBH10
Checked by Göran Andersson 2005-10-26	Rev	05.03.04		Order no B4516	Archive -
Appt. by Fredrik Andersson 2005-10-26	Rev	05.09.07		HG 9100	Lang. E
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SIEMENS

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBH10BP205	ORIFICE	16	130					SAPA SERVICE	SAPA SERVICE	-	HG4120 1.5 mm
KA01	-			-	-	-	SS 2343-02 2035 329-2	-	-	-	-

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Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	03.11.12	COOLING / SEALING AIR SYSTEM	YAMAMA CEMENT	MBH10
Checked by Göran Andersson 2005-10-26	05.03.04		Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	05.09.07		HG 9100	Doc. no
Prepared by S.MALMLÖV	07.01.12	AGGREGATE LIST	SIEMENS	2046037
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBH20AA010	SHUT OFF VALVE	30	150					AXEL LARSSON			-
KA01	AIR/FUEL GAS BALL VALVE			-	-	BUTT WELDED	2033155-32 F316	-	STARLINE	-	-
		400lbs	3"	400lbs	3"	BUTT WELDED	AL33SS 116 SGS-G	116 SGS-G	116 SGS-G	-	-
MS01	ACTUATOR			-	-	-	-	REMOTE CONTROL	REMOTE CONTROL	-	-
-S11	LIMIT SWITCH			-	-	-	ALUMINIUM	RC 250SR	RC 250SR	-	VALVE OPEN
-S21	LIMIT SWITCH			-	-	-	2036 608-2	RC-E4L-MEC	RC-E4L-MEC	-	VALVE CLOSED
-Y01	SOLENOID VALVE			-	-	THREADED	2036 608-2	RC-E4L-MEC	RC-E4L-MEC	-	492453.C2
				-	G1/4"	THREADED	ALUMINIUM	LUCIFER	LUCIFER	-	492453.C2
				-	G1/8"	THREADED	-	34-1N31	34-1N31	-	SPRING TO CLOSE, AIR TO OPEN
MBH20AA015	SHUT OFF VALVE	30	150					AXEL LARSSON			-
KA01	AIR/FUEL GAS BALL VALVE			400lbs	-	BUTT WELDED	2033155-33 F316	-	STARLINE	-	-
				-	2"	BUTT WELDED	AL33SS 116 SGS-G	116 SGS-G	116 SGS-G	-	-
MS01	ACTUATOR			-	-	-	-	REMOTE CONTROL	REMOTE CONTROL	-	-
-S11	LIMIT SWITCH			-	-	-	ALUMINIUM	RC 240SR	RC 240SR	-	VALVE OPEN
-S21	LIMIT SWITCH			-	-	-	2036 608-2	RC-E4L-MEC	RC-E4L-MEC	-	VALVE CLOSED
-Y01	SOLENOID VALVE			-	-	THREADED	2036 608-2	RC-E4L-MEC	RC-E4L-MEC	-	492453.C2
				-	G1/4"	THREADED	ALUMINIUM	LUCIFER	LUCIFER	-	492453.C2
				-	G1/8"	THREADED	-	34-1N31	34-1N31	-	SPRING TO CLOSE, AIR TO OPEN
MBH20AA020	SHUT OFF VALVE	30	150					AXEL LARSSON			-
KA01	AIR BALL VALVE			-	-	BUTT WELDED	2033155-32 F316	-	STARLINE	-	-
		400lbs	3"	400lbs	3"	BUTT WELDED	AL33 SS 116 SGS-G	116 SGS-G	116 SGS-G	-	-
MS01	ACTUATOR			-	-	-	-	REMOTE CONTROL	REMOTE CONTROL	-	-
-S11	LIMIT SWITCH			-	-	-	ALUMINIUM	RC 240SR	RC 240SR	-	VALVE OPEN
-S21	LIMIT SWITCH			-	-	-	2036 608-2	RC-E4L-MEC	RC-E4L-MEC	-	VALVE CLOSED
-Y01	SOLENOID VALVE			-	-	THREADED	2036 608-2	RC-E4L-MEC	RC-E4L-MEC	-	492453.C2
				-	G1/4"	THREADED	ALUMINIUM	LUCIFER	LUCIFER	-	492453.C2
				-	G1/8"	THREADED	-	34-1N31	34-1N31	-	SPRING TO CLOSE, AIR TO OPEN
Remark -			year-month-day	Title				Plant	Des		
Based on Doc no / revision		Orig	03.11.12					YAMAMA CEMENT	MBH20		
Checked by Göran Andersson 2005-10-26	Resp. dept.	Rev	05.03.04					Order no B4516	Archive -	HG 9100	Lang. E
Appr. by Fredrik Andersson 2005-10-26	Latest rev.	Rev	05.09.07					Doc. no			Sheet 5
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								SIEMENS			
								AGGREGATE LIST			

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
-S21	LIMIT SWITCH						ALUMINIUM		REMOTE CONTROL		VALVE CLOSED
-Y01	SOLENOID VALVE						2036 608-2 ALUMINIUM		RC-E4L-MEC LUCIFER 34-1N31		492453.C2
					G1/4"	G1/8"					
MBH20AA215	VENTILATION VALVE	30	150					AXEL LARSSON			SPRING TO OPEN, AIR TO CLOSE
	AIR/FUEL GAS										
KA01	BALL VALVE						2033155-34 F316		STARLINE		
				800lbs	1"			AL32SS 236 SGS-G	236 SGS-G		
MS01	ACTUATOR								REMOTE CONTROL		
-S21	LIMIT SWITCH							AL77 220SRF	RC 220SRF		VALVE CLOSED
-Y01	SOLENOID VALVE						ALUMINIUM 2036 608-2 ALUMINIUM		RC-E4L-MEC LUCIFER 34-1N31		492453.C2
					G1/4"	G1/8"					
MBH20AA230	ROOT VALVE							SAPA	AXEL LARSSON		HG4011
	AIR										
KA01	BALL VALVE				DN15						
							2026249-6	AL31 SS 126 SSR			
MBH20AT005	FILTER	16	150					SAPA	SAPA		
	AIR										
KT01				40	80	80	FLANGE FLANGE				
MBH20BP205	ORIFICE							SAPA SERVICE	SAPA SERVICE		1,5 mm
	AIR										
KA01	ORIFICE PLATE						SS-2343-02				
					G1/2"	G1/2"	THREADED THREADED				
MBH20BP230	ORIFICE	16	150					SAPA SERVICE	SAPA SERVICE		1,5 mm
	AIR										
KA01	ORIFICE PLATE						SS-2343-02				
					G1/2"	G1/2"	THREADED THREADED				

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Remark -	year-month-day		Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	PURGE AIR SYSTEM	YAMAMA CEMENT	MBH20
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	DUAL FUEL	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST	HG 9100	Doc. no
Prepared by S.MALMLÖV	Rev	07.01.12		SIEMENS	2046037
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA bar(g) C	PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK	
MBK10AZ005	GEAR							FLENDER-GRAFFENSTADEN	FLENDER-GRAFFENSTADEN	17000	-

MBK10HB005	FLEXIBLE COUPLING							SCANDICOM AB			-
								BIBBY TURBOFLEX			-

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Remark -	year-month-day	Title		Plant	Des
		Orig	03.11.12		
Based on Doc no / revision				YAMAMA CEMENT	MBK
Checked by Göran Andersson 2005-10-26		Rev	05.03.04	Order no B4516	HG 9100
Appr. by Fredrik Andersson 2005-10-26		Rev	05.09.07	Doc. no	
Prepared by S.MALMLÖV		Rev	07.01.12	SIEMENS	
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBL20AA005	SHUT OFF VALVE COMPRESSED AIR							DONALDSON			
KA01	SHUT OFF VALVE				1"		ALUMINIUM				
MBL20AA010	PRESSURE REGULATOR							DONALDSON			
KA01	PRESSURE REGULATOR				1"			DONALDSON GT06-6854-02			
KT01	COMPRESSED AIR FILTER							DONALDSON GT06-6854-02			
P01	PRESSURE GAUGE							DONALDSON GT06-2022	NORGREEN		
MBL20AA015	SAFETY VALVE							DONALDSON	BAUKMAN HONEYWELL		SET POINT 8 Bar
KA01	SAFETY VALVE										
MBL21AA010	PURGE AIR VALVE COMPRESSED AIR	14	80					DONALDSON GT06-7588			14 UNITS.
-Y01	SOLENOID VALVE				45"		ALU-ALLOY	DONALDSON* GT06-5450/6917	BUSCHJOST		
MBL21AN005	JET PULSE FILTER FAN		80					DONALDSON			
KT01	FAN								DE RAEDT		
-M01	MOTOR								LERROY SOMER LS.90S		0,75KW
MBL21AT005	WEATHER LOUVRE AMBIENT AIR		80					DONALDSON			
MBL21AT010	JET PULSE FILTER AMBIENT AIR							DONALDSON			
KT01	FILTER							DONALDSON	DONALDSON		CONSISTS OF 112 ELEMENT UNITS
MBL21BB005	AIR RECIEVER (MANIFOLD) COMPRESSED AIR							DONALDSON GT37-1158	P78-3301-3302		

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Remark	Doc no / revision	Orig	year-month-day	Title	Plant	Des
Based on	Doc no / revision	Orig	03.11.12	AIR INTAKE FILTER SYSTEM	YAMAMA CEMENT	MBL
Checked by	Göran Andersson 2005-10-26	Rev	05.03.04		Order no B4516	Archive -
Appr. by	Fredrik Andersson 2005-10-26	Rev	05.09.07		HG 9100	Lang. E
Prepared by	S.MALMLÖV	Rev	07.01.12	AGGREGATE LIST	Doc. no	Sheet 8
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		bar(g)	C								
MBL22AA010	PURGE AIR VALVE	14	80					DONALDSON			14 UNITS.
-	COMPRESSED AIR							GT06-7588			
-Y01	SOLENOID VALVE							GT06-5450/6917			
MBL22AN005	JET PULSE FILTER FAN	-	80		1"			DONALDSON			
-	AMBIENT AIR										
KT01	FAN							DE RAEDT			
-M01	MOTOR							LERROY SOMER			0.75 kW
								LS.90S			
MBL22AT005	WEATHER LOUVRE	-	80					DONALDSON			
-	AMBIENT AIR										
MBL22AT010	JET PULSE FILTER							DONALDSON			
-	AMBIENT AIR										
KT01	FILTER							DONALDSON			CONSIST OF 112 ELEMENT UNITS
MBL22BB005	AIR RECIEVER (MANIFOLD)							P78-3301/3302			
-	COMPRESSED AIR							DONALDSON			
MBL23AA010	PURGE AIR VALVE							DONALDSON			14 UNITS.
-	COMPRESSED AIR							GT06-7588			
-Y01	SOLENOID VALVE							DONALDSON			
MBL23AN005	JET PULSE FILTER FAN							GT06-5450/6917			
-								DONALDSON			
KT01	FAN										
-M01	MOTOR							LERROY SOMER			0.75 kW
								LS.90S			
MBL23AT005	WEATHER LOUVRE							DONALDSON			
-	AMBIENT AIR										

Remark -	year-month-day		Title	
Based on Doc no / revision	Orig	03.11.12	AIR INTAKE FILTER SYSTEM	
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	AGGREGATE LIST	
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07		
Prepared by S.MALMLÖV	Rev	07.01.12		
Plant		Des		
YAMAMA CEMENT		MBL		
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBL23AT010	JET PULSE FILTER							DONALDSON			
-	AMBIENT AIR										
KT01	FILTER							DONALDSON	DONALDSON		CONSIST OF 112 ELEMENT UNITS
-									P78-3301/3302		
MBL23BB005	AIR RECIEVER (MANIFOLD)							DONALDSON			
-	COMPRESSED AIR							GT37-1158			
MBL24AA010	PURGE AIR VALVE							DONALDSON			14 UNITS .
-	COMPRESSED AIR							GT06-7588			
-Y01	SOLENOID VALVE							DONALDSON	BUSCHJOST		
-								GT06-5450/6917			
MBL24AN005	JET PULSE FILTER FAN							DONALDSON			
-	AMBIENT AIR										
KT01	FAN										
-											
-M01	MOTOR							LEROY SOMER			
-								LS.90S			
MBL24AT005	WEATHER LOUVRE							DONALDSON			
-	AMBIENT AIR										
MBL24AT010	JET PULSE FILTER							DONALDSON			
-	AMBIENT AIR										
KT01	FILTER							DONALDSON	DONALDSON		CONSIST OF 112 ELEMENT UNITS
-									P78-3301/3302		
MBL24BB005	AIR RECIEVER (MANIFOLD)							DONALDSON			
-	COMPRESSED AIR							GT37-1158			
MBL30BR100	BELLOWS								HIAK		
-											
MBL30BS005	SILENCER							HIAK			
-	AMBIENT AIR										

Remark -	year-month-day	Title	Plant		Des					
			YAMAMA CEMENT	MBL						
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG 9100	Archive -	Lang.	E		
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS				Doc. no	2046037	Sheet	10
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07					Tot.	72		
Prepared by S.MALMLÖV	Rev	07.01.12	AGGREGATE LIST							

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA bar(g) C	PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
KS01	SILENCER		-	-	-	SS 2333	HIAK	-	-	-

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Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBL
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	Order no B4516	HG 9100
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	Doc. no	
Prepared by S.MALMLÖV	Rev	07.01.12	SIEMENS	
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			Sheet 11	
			Tot. 72	
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			AGGREGATE LIST	
			AIR INTAKE FILTER SYSTEM	

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBM10AA005	BYPASS VALVE						2409 069-C	-	-	-	-
-B01	AIR							-	-	-	-
-B01	POSITIONER							SKF MULTITEC	LEINE & LINDE SX 27 RV 120	t	-
KA01	BUTTERFLY VALVE						2409 088-3	-	-	-	-
-	BUTTERFLY VALVE						2409 069	-	-	-	-
KA02	BUTTERFLY VALVE						2409 069	-	-	-	-
KA03	BUTTERFLY VALVE						2409 069	-	-	-	-
-	BUTTERFLY VALVE						2409 069	-	-	-	-
KA04	BUTTERFLY VALVE						2409 069	-	-	-	-
KA05	BUTTERFLY VALVE						2409 069	-	-	-	-
-	BUTTERFLY VALVE						2409 069	-	-	-	-
KA06	BUTTERFLY VALVE						2409 069	-	-	-	-
-M01	MOTOR ACTUATOR							SKF MULTITEC	MOOG G404-538	-	-
-	LIMIT SWITCH						2409 088-3	-	HONEYWELL 14CE101-6	-	Butterfly valve open
-S11	LIMIT SWITCH						2409 088-3	-	HONEYWELL 14CE101-6	-	Butterfly valve open
-S21	LIMIT SWITCH						2409 088-3	-	HONEYWELL 14CE101-6	-	Butterfly valve open
-							2409 088-3	-	-	-	-

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Remark -	year-month-day	Title	Plant		Des				
			YAMAMA CEMENT	MBM					
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG 9100	Archive -	Lang.	E	
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	COMBUSTION CHAMBER SYSTEM				Doc. no	Sheet	12
Appt. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST				2046037	Tot.	72
Prepared by S.MALMLÖV	Rev	07.01.12							

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBN10AA005	SHUT OFF VALVE	10	90					SAPA			FAIL CLOSE TYPE UNIT 1-5
-	LIQUID FUEL						1CS22568-1				
KA01	BALL VALVE	16	DN50	DN50	FLANGED	F316			STARLINE	-	
MS01	PNEUMATIC ACTUATOR	-	-	-	FLANGED	-			AL32 236 SGS-G REMOTE CONTROL	-	
-S11	LIMIT SWITCH	-	-	-	-	-			AL 77-230SR	-	
-S21	LIMIT SWITCH	-	-	-	-	-			K-CONTROL	-	VALVE OPEN. MECH. TYPE
-Y01	SOLENOID VALVE	-	-	-	-	-			SBX-7RM12 K-CONTROL	-	VALVE CLOSED. MECH TYPE
		-	-	-	-	-			SBX-7RM12	-	Coil 493640
		-	-	-	-	-			LUCIFER	-	Coil 493640
		-	-	-	-	-			34-1N31	-	Coil 493640
MBN10AA005	SHUT OFF VALVE	10	90					SAPA			FAIL CLOSE TYPE UNIT 6-9
-	LIQUID FUEL						1CS22568-1				
KA01	BALL VALVE	16	DN50	DN50	FLANGED	F316			STARLINE	-	
MS01	PNEUMATIC ACTUATOR	-	-	-	FLANGED	-			AL32 SGS-G REMOTE CONTROL	-	
-S11	LIMIT SWITCH	-	-	-	-	-			RC 230-SR 087	-	VALVE OPEN. MECH. TYPE
-S21	LIMIT SWITCH	-	-	-	-	-			K-CONTROL	-	VALVE CLOSED. MECH TYPE
-Y01	SOLENOID VALVE	-	-	-	-	-			SBZ-01230/1 K-CONTROL	-	VALVE CLOSED. MECH TYPE
		-	-	-	-	-			SBZ-01230/1	-	Coil 493640
		-	-	-	-	-			LUCIFER	-	Coil 493640
		-	-	-	-	-			34-1N31	-	Coil 493640
MBN10AA010	LEVEL CONTROL VALVE	10	90					FLENCO			
-	LIQUID FUEL										
KA01	GLOBE VALVE	10	1 1/2"	1 1/2"	Thread ISO-G	STAINLESS			KROMBACH TYPE SV645	-	GASKET IN PTFE
MS01	FLOAT ACTUATOR	-	-	-	-	-			KROMBACH	-	LENGTH LEVER: 670mm
MBN10AA025	SHUT OFF VALVE	100	90					FLENCO			FAIL CLOSE TYPE UNIT 1-5
-	LIQUID FUEL						1CS22077-1				
KA01	BALL VALVE	160	25	25	WELDED	A105N			STARLINE	-	
KA02	OUTLET AIR VALVE	-	1/2"	1/2"	WELDED	-			AL36 133SGS	-	WITH 90° OUTLET BEND
		-	-	-	THREADED	-			VSC-522-1/2"	-	
		-	-	-	THREADED	-				-	

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Prepared by S.MALMLÖV	Rev	05.09.07
	Rev	07.01.12
LIQUID FUEL SYSTEM		
AGGREGATE LIST		
Plant	Des	
YAMAMA CEMENT	MBN, MBU10	
Order no B4516	Archive -	
HG 9100	Lang. E	
Doc. no	Sheet	13
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	Doc. no	2046037

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MS01	PNEUMATIC-ACTUATOR								REMOTE CONTROL	-	-
-S11	LIMIT SWITCH								AL77-230-SRQ K-CONTROL	-	VALVE OPEN.MECH.TYPE
-S21	LIMIT SWITCH								SBX-7RM12 K-CONTROL	-	VALVE CLOSED. MECH.TYPE
-Y01	SOLENOID VALVE					THREADED			LUCIFER 131 K03	-	Coil 493640 EEx
						THREADED				-	
MBN10AA025	SHUT OFF VALVE	100	90					FLENCO			FAIL CLOSE TYPE UNIT 6-9
KA01	LIQUID FUEL BALL VALVE			160	25	WELDED	1CS22077-1 A105N		STARLINE	-	-
KA02	OUTLET AIR VALVE				1/2"	WELDED			AL32 136SGS	-	WITH 90° OUTLET BEND
MS01	PNEUMATIC-ACTUATOR					THREADED			VSC-522-1/2"	-	
-S11	LIMIT SWITCH								REMOTE CONTROL	-	-
-S21	LIMIT SWITCH								RC 230-SR 087Q K-CONTROL	-	VALVE OPEN.MECH.TYPE
-Y01	SOLENOID VALVE					THREADED			SBZ-01230/1 K-CONTROL	-	VALVE CLOSED. MECH.TYPE
						THREADED			SBZ-01230/1 LUCIFER	-	Coil 493640 EEx
						THREADED				-	
MBN10AA030	SHUT OFF VALVE	100	90					SAPA			FAIL CLOSE TYPE
KA01	LIQUID FUEL BALL VALVE			100	25	WELDED	1CS22082-1		STARLINE	-	-
KA02	OUTLET AIR VALVE				1/2"	WELDED			AL33 116 SGS-G	-	WITH 90° OUTLET BEND
MS01	PNEUMATIC-ACTUATOR					THREADED			VSC-522-1/2"	-	
-S11	LIMIT SWITCH								REMOTE CONTROL	-	-
-S21	LIMIT SWITCH								AL77-230SRQ REMOTE CONTROL	-	VALVE OPEN. MECH. TYPE
-Y01	SOLENOID VALVE					THREADED			RC-E4L-MEK REMOTE CONTROL	-	VALVE CLOSED. MECH. TYPE
						THREADED			RC-E4L-MEK LUCIFER	-	Coil 2453
						THREADED				-	

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Checked by Göran Andersson 2005-10-26	Rev	05.03.04	
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	
Prepared by S.MALMLÖV	Rev	07.01.12	
Plant		Des	
YAMAMA CEMENT		MBN, MBU10	
Order no B4516	HG 9100	Archive -	
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LIQUID FUEL SYSTEM

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBN10AA040	SHUT OFF VALVE	100	90					FLENCO			FAIL OPEN TYPE UNIT 1-5
-	PURGE AIR / LIQUID F BALL VALVE			160	15	15	WELDED CARBON	-	STARLINE AL36 133SGS	-	-
KA01				-	-	-	WELDED	-		-	-
KA02	OUTLET AIR VALVE			-	1/2"	1/2"	THREADED	-	VSC-522-1/2"	-	With 90° outlet bend.
-	PNEUMATIC ACTUATOR			-	-	-	THREADED	-	REMOTE CONTROL	-	-
MS01				-	-	-	-	-	AL77-220-SRFQ	-	-
-S11	LIMIT SWITCH			-	-	-	-	-	K-CONTROL	-	VALVE OPEN. MECH. TYPE
-	LIMIT SWITCH			-	-	-	-	-	SBX-7RM12	-	VALVE CLOSED
-S21				-	-	-	-	-	K-CONTROL	-	-
-	SOLENOID VALVE			-	-	-	-	-	SBX-7RM12	-	-
-Y01				-	-	-	-	-	LUCIFER	-	Coil 493640
-				-	-	-	-	-	131K03	-	-
MBN10AA040	SHUT OFF VALVE	100	90					FLENCO			FAIL OPEN TYPE UNIT 6-9
-	PURGE AIR / LIQUID F BALL VALVE			160	15	15	WELDED CARBON	-	STARLINE AL32 136SGS	-	-
KA01				-	-	-	WELDED	-		-	-
KA02	OUTLET AIR VALVE			-	1/2"	1/2"	THREADED	-	VSC-522-1/2"	-	With 90° outlet bend.
-	PNEUMATIC ACTUATOR			-	-	-	THREADED	-	REMOTE CONTROL	-	-
MS01				-	-	-	-	-	RC 220-SRF 087Q	-	-
-S11	LIMIT SWITCH			-	-	-	-	-	K-CONTROL	-	VALVE OPEN. MECH. TYPE
-	LIMIT SWITCH			-	-	-	-	-	SBZ-01230/1	-	VALVE CLOSED
-S21				-	-	-	-	-	K-CONTROL	-	-
-	SOLENOID VALVE			-	-	-	-	-	SBZ-01230/1	-	-
-Y01				-	-	-	-	-	LUCIFER	-	Coil 493640
-				-	-	-	-	-	121K03	-	-
MBN10AA205	DRAIN VALVE LIQUID FUEL	1	90					FLENCO			
-	BALL VALVE			40	DN25	DN25	FLANGED CARBON	-	STARLINE AL32-133SGS-G	-	-
KA01				-	-	-	FLANGED	-		-	-
MBN10AA215	SAFETY VALVE LIQUID FUEL	100	90					FLENCO			
-	SPRING GATE VALVE			160/40	25	40	FLANGED AISI304	-	TECHNICAL 100-H90-H6-40	-	-
KA01				-	-	-	FLANGED	-		-	-
MBN10AA220	DRAIN VALVE LIQUID FUEL	10	90					FLENCO			
-				-	-	-	-	-		-	-

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Based on Doc no / revision	Orig		YAMAMA CEMENT	MBN, MBU10
Checked by Göran Andersson 2005-10-26	Rev	03.11.12	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.03.04	HG 9100	Lang. E
Prepared by S.MALMLÖV	Rev	05.09.07	Doc. no	Sheet 15
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	BALL VALVE			800 lb	¾"	¾"	THREADED BSP	CARBON	STARLINE	-	-
				-	-	-	THREADED BSP		AL32 133 SGS-G	-	-
MBN10AA225	DRAIN VALVE	10	90					FLENCO			
KA01	LIQUID FUEL BALL VALVE	800 lb	¾"	¾"	THREADED BSP	CARBON		STARLINE		-	-
		-	-	-	THREADED BSP			AL32 133 SGS-G		-	-
MBN10AA235	VENTILATION DRAIN VALVE	10	90					FLENCO			
KA01	BALL VALVE		½"	½"	THREADED BSPP			STARLINE		-	-
		-	-	-	THREADED BSPP			AL32-133SGS-G		-	-
MBN10AA240	VENTILATION DRAIN VALVE	10	90					FLENCO			
KA01	BALL VALVE		½"	½"	THREADED BSPP			STARLINE		-	-
		-	-	-	THREADED BSPP			AL32-133SGS-G		-	-
MBN10AA405	TEST VALVE	100	90					FLENCO			
KA01	LIQUID FUEL NEEDLE VALVE		1/2"	1/2"	THREAD-NPT	STAINLESS		PARKER		-	-
		-	-	-	THREAD-NPT			NVS8FF		-	-
KZ01	PLUG		-	-	-	-	-	-	-	-	-
MBN10AA406	DRAIN VALVE	100	90					AXEL LARSSON			
KA01	LIQUID FUEL BALL VALVE		½"	½"	THREAD-NPT		2034462-2	STARLINE		-	-
		-	-	-	THREAD-NPT			AL-17-15		-	-
MBN10AA407	DRAIN VALVE	100	90					AXEL LARSSON			
KA01	LIQUID FUEL BALL VALVE		½"	½"	THREAD-NPT		2034462-2	STARLINE		-	-
		-	-	-	THREAD-NPT			AL-17-15		-	-
MBN10AH005	START UP FUEL HEATER	0	90					FLENCO			UNIT 1-5
	AIR / LIQUID FUEL										
	MANUAL RESET DEVICE								JUMO		
									TB EMF-5		

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBN, MBU10
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	HG 9100	Lang. E
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
-K01	OVER HEAT PROTECTION			-	-	-	-	-	MASTERWATT	t	-
-R01	ELECTRICAL HEATER			16	100	FLANGE	CARBON	-	MASTERWATT 78ZTC025D00001	t	TYPE L
-S01	THERMOSTAT			-	-	-	-	-	-	-	-
MBN10AH005	START UP FUEL HEATER	0	90					FLENCO			UNIT 6-9
-	AIR / LIQUID FUEL			-	-	-	-	-	-	-	-
-	MANUAL RESET DEVICE			-	-	-	-	-	JUMO	-	-
-K01	OVER HEAT PROTECTION			-	-	-	-	-	TB EMF-5 MASTERWATT	t	-
-R01	ELECTRICAL HEATER			16	100	FLANGE	CARBON	-	MASTERWATT 78ZTC025D00001	t	TYPE L
-S01	THERMOSTAT			-	-	-	-	-	-	-	-
MBN10AH010	START UP FUEL HEAT TRACING								RAYCHEM		
-	AMBIENT AIR HEATING CABLE			-	-	-	1CS40378	-	-	-	-
-R02	HEATING CABLE			-	-	-	-	-	12XTV2-CT2	-	-
-	HEATING CABLE			-	-	-	-	-	12XTV2-CT2	-	-
-S01	THERMOSTAT			-	-	-	-	-	-	t	-
-	THERMOSTAT			-	-	-	-	-	RAYSTAT-EX-03	-	-
MBN10AP005	FUEL OIL PUMP	100	90					FLENCO			UNIT 1-5
-	LIQUID FUEL			-	-	-	1CS40747-1	-	-	-	-
KP01	INTERNAL GEAR PUMP			-	2"	SAE FLANGE	CAST IRON	-	TRUNINGER	-	-
-	INTERNAL GEAR PUMP			-	-	SAE FLANGE	-	-	QX54-063 207-1	-	-
-M01	AC MOTOR			-	-	-	-	-	ABB MOTORS	-	-
-	AC MOTOR			-	-	-	-	-	M3KP225SME4 EEEx de IIB T4	-	-
MBN10AP005	FUEL OIL PUMP	100	90					FLENCO			UNIT 6-9
-	LIQUID FUEL			-	-	-	1CS40747-1	-	-	-	-
KP01	INTERNAL GEAR PUMP			-	2"	SAE FLANGE	CAST IRON	-	BUCHER	-	-
-	INTERNAL GEAR PUMP			-	-	SAE FLANGE	-	-	QX54-063 R344	-	-
-M01	AC MOTOR			-	-	-	-	-	ABB MOTORS	-	-
-	AC MOTOR			-	-	-	-	-	M3KP225SME4 EEEx de IIB T4	-	-

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Based on Doc no / revision	Orig	03.11.12		YAMAMA CEMENT	MBN, MBU10
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	LIQUID FUEL SYSTEM	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST	HG 9100	Doc. no
Prepared by S.MALMLÖV	Rev	07.01.12		SIEMENS	
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL P PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBN10AT005	LIQUID FUEL FILTER	10	90					FLENCO			
KA01	LIQUID FUEL THREE WAY VALVE	16	2"	2"	2"	FLANGE	CARBON		VOKES		
KA02	THREE WAY VALVE	16	2"	2"	2"	FLANGE	CARBON		VOKES		
KA03	COMMUTER VALVE	-	1/4"	1/4"	-	-	-				
KT01	FILTER	16	2"	2"	2"	FLANGE	CARBON		VOKES		Cartridge D6360523
KT02	FILTER	16	2"	2"	2"	FLANGE	CARBON		FTD31E6372642/30 VOKES		Cartridge D6360523
KT02	FILTER	16	2"	2"	2"	FLANGE	CARBON		FTD31E6372642/30 VOKES		Cartridge D6360523
MBN10AT010	SUCTION STRAINER	0	90					FLENCO			
KT01	LIQUID FUEL PERFORATED PLATE	-	-	-	-	WELDED	STAINLESS		FLENCO		MESH SIZE=1,25mm
KT01	PERFORATED PLATE	-	-	-	-	WELDED	-		FS50LFB1000		
MBN10AT015	TANK VENTILATION FILTER	0	90					FLENCO	MP FILTERS		
KT01	FILTER	-	1/4"	-	-	THREAD-BSP	-		CS100A03A		
KT01	FILTER	-	1/4"	-	-	THREAD-BSP	-		-		
MBN10BB005	LIQUID FUEL TANK LIQUID FUEL	0	90					FLENCO			0.9 m3
MBN30AA005	CLEANING AIR VALVE	30	150					SAPA			WHEN DUAL FUEL: DESIGN DATA OIL SYSTEM 30bar, 150°C
KA01	INSTRUMENT AIR BALL VALVE	-	DN20	DN20	DN20	WELDED	-		STARLINE		
MS01	PNEUMATIC ACTUATOR	-	-	-	-	WELDED	-		AL32SS236SGS-G		
-S11	LIMIT SWITCH	-	-	-	-	-	-		AL77-210SR		
-S21	LIMIT SWITCH	-	-	-	-	-	-		REMOTE CONTROL		
-Y01	SOLENOID VALVE	-	-	-	-	-	-		RC-E4L-MEK		
		-	-	-	-	-	-		RC-E4L-MEK		
		-	-	-	-	-	-		LUCIFER		Coil 2453
		-	-	-	-	-	-		131M14		

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Checked by Göran Andersson 2005-10-26	Rev	05.03.04	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	HG 9100	Lang. E
Prepared by S.MALMLÖV	Rev	07.01.12	Doc.no 2046037	Sheet 18
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			LIQUID FUEL SYSTEM	
			AGGREGATE LIST	

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBN30AA010	SHUT OFF VALVE	30	150					SAPA			WHEN DUAL FUEL: OIL SYSTEM DESIGN DATA 30bar 150°C
KA01	INSTRUMENT AIR BALL VALVE			-	DN20	WELDED	2033155-21	-	STARLINE AL32SS236SGS-G	-	-
MS01	PNEUMATIC ACTUATOR			-	-	WELDED	-	-	-	-	-
-S11	LIMIT SWITCH			-	-	-	-	-	AL77-210SR REMOTE CONTROL	-	-
-S21	LIMIT SWITCH			-	-	-	-	-	RC-E4L-MEK REMOTE CONTROL	-	-
-Y01	SOLENOID VALVE			-	-	-	-	-	RC-E4L-MEK LUCIFER 131M14	-	Coil 2453
MBN30AA015	SHUT OFF VALVE	30	150					SAPA			
KA01	PURGE AIR BALL VALVE			-	25	WELDED	2033155-7	-	STARLINE AL32SS236SGS-G	-	-
MS01	PNEUMATIC ACTUATOR			-	-	WELDED	-	-	REMOTE CONTROL	-	-
-S11	LIMIT SWITCH			-	-	-	-	-	AL77-220SR REMOTE CONTROL	-	VALVE OPEN
-S21	LIMIT SWITCH			-	-	-	-	-	RC-E4L-MEK REMOTE CONTROL	-	VALVE CLOSED
-Y01	SOLENOID VALVE			-	-	-	-	-	RC-E4L-MEK LUCIFER 131M14	-	Coil 2453
MBN30AA025	SHUT OFF VALVE	100	90					SAPA			
KA01	PURGE AIR / LIQUID F BALL VALVE			-	25	WELDED	2033155-7	-	STARLINE AL32SS236SGS-G	-	-
MS01	PNEUMATIC ACTUATOR			-	-	WELDED	-	-	REMOTE CONTROL	-	-
-S11	LIMIT SWITCH			-	-	-	-	-	AL77-220 SR REMOTE CONTROL	-	VALVE OPEN. MECH. TYPE
-S21	LIMIT SWITCH			-	-	-	-	-	RC-E4L-MEK REMOTE CONTROL	-	VALVE CLOSED. MECH TYPE
-Y01	SOLENOID VALVE			-	-	-	-	-	RC-E4L-MEK LUCIFER 131M14	-	Coil 2453

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Remark -	year-month-day	Title	Plant		Des					
			YAMAMA CEMENT	MBN, MBU10						
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG	9100	Archive	-	Lang.	E
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Prepared by S.MALMLÖV	Rev	07.01.12								

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBN30AA030	SHUT OFF VALVE	30	150					SAPA			
-	PURGE AIR						2035155-22				
KA01	BALL VALVE			-	DN20	WELDED			STARLINE		
MS01	PNEUMATIC ACTUATOR			-	-	WELDED			AL32SS236SGS-G		
-				-	-				REMOTE CONTROL		
-S11	LIMIT SWITCH			-	-				AL77-210SR		VALVE OPEN
-				-	-				REMOTE CONTROL		
-S21	LIMIT SWITCH			-	-				RC-E4L-MEK		VALVE CLOSED
-				-	-				REMOTE CONTROL		
-Y01	SOLENOID VALVE			-	-				RC-E4L-MEK		
-				-	-				LUCIFER		Coil 2453
-				-	-				131M14		
MBN30AA035	SHUT OFF VALVE							SAPA			WHEN DUAL FUEL: OIL SYSTEM DESIGN DATA 30bar 150°C
-											
KA01	BALL VALVE			-	DN20	WELDED	2033155-21		STARLINE		
MS01	PNEUMATIC ACTUATOR			-	-	WELDED			AL32SS236SGS-G		
-				-	-						
-S11	LIMIT SWITCH			-	-				AL77-210SR		
-				-	-				REMOTE CONTROL		
-S21	LIMIT SWITCH			-	-				RC-E4L-MEK		
-				-	-				REMOTE CONTROL		
-Y01	SOLENOID VALVE			-	-				RC-E4L-MEK		
-				-	-				LUCIFER		Coil 2453
-				-	-				131M14		
MBN30BP005	ORIFICE							ALSTOM			Ø=2mm
-											
KP01				-	12	THREADED					
-				-	-	THREADED		2037 612-A			
MBN40AA005	SHUT OFF VALVE							AXEL LARSSON			
-	PURGE AIR / LIQUID F										
KA01	BALL VALVE			-	-		2510 080-1		STARLINE		
MS01	PNEUMATIC ACTUATOR			-	-				AL37 DN10 T6 SGT-V		
-				-	-				REMOTE CONTROL		
-				-	-				AL77-210 SR 100 HT		
MBN40AA010	SHUT OFF VALVE							AXEL LARSSON			
-	PURGE AIR / LIQUID F										
-							2510 080-1				

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig		YAMAMA CEMENT	MBN, MBU10
Checked by Göran Andersson 2005-10-26	Rev	03.11.12	Order no B4516	Archive -
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Prepared by S.MALMLÖV	Rev	05.09.07	Doc. no	Sheet 20
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		LIQUID FUEL SYSTEM		
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	BALL VALVE								STARLINE AL33-116SGS		
MS01	PNEUMATIC ACTUATOR								REMOTE CONTROL AL77-210 SR 100 HT		
MBN40AA015	SHUT OFF VALVE						2510 080-1	AXEL LARSSON			
KA01	BALL VALVE								STARLINE AL37 DN10 T6 SGT-V		
MS01	PNEUMATIC ACTUATOR								REMOTE CONTROL AL77-210 SR 100 HT		
MBN40AA020	SHUT OFF VALVE						2510 080-1	AXEL LARSSON			
KA01	PURGE AIR / LIQUID F BALL VALVE								STARLINE AL37 DN10 T6 SGT-V		
MS01	PNEUMATIC ACTUATOR								REMOTE CONTROL AL77-210 SR 100 HT		
MBN40AA025	SHUT OFF VALVE						2510 080-1	AXEL LARSSON			
KA01	PURGE AIR / LIQUID F BALL VALVE								STARLINE AL37 DN10 T6 SGT-V		
MS01	PNEUMATIC ACTUATOR								REMOTE CONTROL AL77-210 SR 100 HT		
MBN40AA030	SHUT OFF VALVE						2510 080-1	AXEL LARSSON			
KA01	PURGE AIR / LIQUID F BALL VALVE								STARLINE AL37 DN10 T6 SGT-V		
MS01	PNEUMATIC ACTUATOR								REMOTE CONTROL AL77-210 SR 100 HT		
MBN40AA035	SHUT OFF VALVE	10	60				2023 981-1	AXEL LARSSON			
-Y01	INSTRUMENT AIR SOLENOID VALVE								LUCIFER 481865-24		
MBN40AA040	SHUT OFF VALVE	10	60				2023 981-1	AXEL LARSSON			
-Y01	INSTRUMENT AIR SOLENOID VALVE								LUCIFER 481865-24		
MBN40BP005	ORIFICE	10	60					SAPA SERVICE	SAPA SERVICE		2mm

Remark -	year-month-day		Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12		YAMAMA CEMENT	MBN, MBU10
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Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07		Doc. no	
Prepared by S.MALMLÖV	Rev	07.01.12		2046037	
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LIQUID FUEL SYSTEM

AGGREGATE LIST

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	ORIFICE PLATE	10	60	-	G? G?	THREADED THREADED	TPJ16L 2046 101-1	-	-	-	-
MBN40BP010	ORIFICE	10	60	-	-	THREADED	2046 101-1	SAPA SERVICE	SAPA SERVICE	-	2mm
KA01	ORIFICE PLATE	-	-	-	G? G?	THREADED THREADED	TPJ16L 2046 101-1	-	-	-	-
MBU10AA405	SHUT OFF VALVE	-	-	-	-	THREADED	-	JOHSJÖ	AHSELLE	-	-
KA01	BALL VALVE	PN64	1"	1"	1"	THREADED STAINLESS	-	-	QUELION AV11396-9161945	-	-
MBU10AA407	CHECK VALVE	1	100	-	-	THREADED	-	-	-	-	-
MBU10AA410	SHUT OFF VALVE	-	-	-	-	THREADED	-	JOHSJÖ	AXEL LARSSON AL54-H153	-	-
KA01	BALL VALVE	PN64	¾"	¾"	¾"	THREADED STAINLESS	-	-	AHSELLE/QUELION 9085602/705-H114DD2	-	-
MBU10AA415	SHUT OFF VALVE ADDITIVE	1	100	-	-	THREADED	-	JOHSJÖ	-	-	-
KA01	BALL VALVE	-	-	-	¾"	THREADED STAINLESS	-	-	AHSELLE/QUELION 9085602/705-H114DD2	-	-
MBU10AA420	SHUT OFF VALVE INSTRUMENT AIR	10	60	-	-	THREADED	-	JOHSJÖ	-	-	-
KA01	BALL VALVE	-	-	-	¾"	THREADED STAINLESS	-	-	AHSELLE/QUELION 9085602/705-H114DD2	-	-
MBU10AA425	PRESSURE REDUCING VALVE	10	60	-	-	THREADED	-	JOHSJÖ	-	-	-
KA01	INSTRUMENT AIR REGULATOR	-	-	-	G3/8"	THREADED	-	-	NORGREN	-	-
P01	PRESSURE GAUGE	-	-	-	R1/8"	THREADED	2034 852	-	R736-36K-RMIN NORGREN	-	-
MBU10AA430	SAFETY VALVE ADDITIVE	10	100	-	-	THREADED	-	JOHSJÖ	18-013-013	-	-
KA01	SPRING GATE VALVE	-	-	-	¼"	THREADED	-	-	SWAGELOK SS-4R3A5-A	-	-
MBU10AA435	SHUT OFF VALVE ADDITIVE	10	90	-	-	THREADED	-	JOHSJÖ	-	-	-

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Remark	-	year-month-day	Title	Plant		Des
				YAMAMA CEMENT	MBN, MBU10	
Based on Doc no / revision	Orig	03.11.12		Order no	B4516	Archive
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	LIQUID FUEL SYSTEM	HG	9100	-
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST	Doc. no	2046037	-
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	BALL VALVE	-	-	-	1/2"	1/2"	STAINLESS	-	STARLINE 236 SGS-G	-	-
MBU10AP403	FILLING PUMP ADDITIVE							JOHSJÖ			
KP01	HAND DRIVEN	-	-	-	1 1/4"	1 1/4"	CAST IRON	-	ALLWEILER 5383-B	-	-
MBU10AP405	DOSAGE PUMP ADDITIVE	5	100					JOHSJÖ			UNIT 1-5
KP01	PISTON PUMP	-	-	-	-	-	-	-	WILLIAMS WP250V225 BV	-	-
-Y01	SOLENOID	-	-	-	-	-	-	-	HERION	-	24 VDC EExme II T4/T6
MBU10AP405	DOSAGE PUMP							JOHSJÖ			UNIT 6-9
KP01	PISTON PUMP	-	-	-	-	-	-	-	WILLIAMS P250V225 BV	-	-
-Y01	SOLENOID	-	-	-	-	-	-	-	HERION	-	24 VDC EExme II T4/T6
MBU10AT401	SUCTION STRAINER ADDITIVE	ATM	100					JOHSJÖ			
-	-	-	-	-	DN25	-	STAINLESS	-	-	-	-
MBU10AT405	HUMIDITY AIR FILTER AMBIENT AIR SILICA GEL	1	100					JOHSJÖ			
KT01	-	-	-	-	3/4"	THREADED	GLASS	-	LF 450 001-B ABB LF 450 001-B	-	-
MBU10AT410	FILTER ADDITIVE	1	100					JOHSJÖ			
-	-	-	-	-	1/2"	THREADED	STAINLESS	-	PARKER	-	0.4 mesh
MBU10AT415	FILTER	1	100					JOHSJÖ			
-	-	-	-	-	-	THREADED	-	-	-	-	-
MBU10BB405	DOSAGE TANK ADDITIVE TANK	ATM	100					JOHSJÖ			
KB01	-	-	-	-	1"	THREADED	-	-	HYDRAULIK LEV. BFP-3-G10-W1,0	-	VOLUME 250 LITER

Remark -	year-month-day		Title
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Prepared by S.MALMLÖV	Rev	07.01.12	
Plant		Des	
YAMAMA CEMENT		MBN, MBU10	
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBP05AA005	SHUT OFF VALVE FUEL GAS	30	150					ELTACON			
KA01	BALL VALVE			-	-	FLANGED	A105	-	ALFA VALVOLE	38	
				300	3"	FLANGED	1CS37294-3	-	A60SB		
MBP05AA015	SHUT OFF VALVE	30	150					ELTACON		13	SPRING TO CLOSE, AIR TO OPEN UNIT 1-5
KA01	BALL VALVE			-	-	FLANGED	A105	-	ALFA VALVOLE	38	
				300	3"	FLANGED	1CS37294-3	-	A60SB		
MS01	ACTUATOR			-	-	-	-	-	REMOTE CONTROL		
				-	-	-	-	-	RC240SR		
-S11	LIMIT SWITCH			-	-	-	ALUMINIUM	-	K-CONTROL		VALVE OPEN EEExd IIC T6 Bas. No. Ex. 95C3391
				-	-	-	1CS29849-2	-	SBX7RM22		VALVE CLOSED EEExd IIC T6 Bas. No. Ex. 95C3391
-S21	LIMIT SWITCH			-	-	-	ALUMINIUM	-	K-CONTROL		VALVE CLOSED EEExd IIC T6 Bas. No. Ex. 95C3391
				-	-	-	1CS29849-2	-	SBX7RM22		Coil 493640.C2 EEExd IIC T4/T5
-Y01	SOLENOID VALVE			-	G1/8"	THREADED	ALUMINIUM	-	LUCIFER		
				-	-	THREADED	-	-	34-1N31		
MBP05AA015	SHUT OFF VALVE	30	150					ELTACON		13	SPRING TO CLOSE, AIR TO OPEN UNIT 6-9
KA01	BALL VALVE			-	-	FLANGED	A105	-	ALFA VALVOLE	38	
				300	3"	FLANGED	1CS37294-3	-	A60SB		
MS01	ACTUATOR			-	-	-	-	-	REMOTE CONTROL		
				-	-	-	-	-	RC250-SR087		
-S11	LIMIT SWITCH			-	-	-	ALUMINIUM	-	K-CONTROL		VALVE OPEN EEExd II B Bas. No. Ex. 95C3391
				-	-	-	1CS29849-2	-	SBX7RM22/3		VALVE CLOSED EEExd II B Bas. No. Ex. 95C3391
-S21	LIMIT SWITCH			-	-	-	ALUMINIUM	-	K-CONTROL		VALVE CLOSED EEExd II B Bas. No. Ex. 95C3391
				-	-	-	1CS29849-2	-	SBX7RM22/3		Coil 493640.C2 Eex mtd
-Y01	SOLENOID VALVE			-	G1/8"	THREADED	ALUMINIUM	-	LUCIFER		
				-	-	THREADED	-	-	34-1N31		

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Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBP
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL P N PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBP05AA020	SHUT OFF VALVE	30	150					ELTACON		5,5	-
KA01	BALL VALVE			-	-	BW	A105/316		STARLINE	-	-
		300	3"	300	3"	BW			213 SGS-S		
MBP05AA025	SHUT OFF VALVE	30	150					ELTACON		5,5	-
KA01	BALL VALVE			-	-	BW	A105/316		STARLINE	-	-
		300	3"	300	3"	BW			213 SGS-S		
MBP05AA030	SHUT OFF VALVE	30	150					ELTACON		5,5	-
KA01	BALL VALVE			-	-	BW	F316/316		STARLINE	-	-
		300	3"	300	3"	BW			216 RGT-G		
MBP05AA035	SHUT OFF VALVE	30	150					ELTACON		5,5	-
KA01	BALL VALVE			-	-	BW	F316/316		STARLINE	-	-
		300	3"	300	3"	BW			216 RGT-G		
MBP05AA040	SHUT OFF VALVE	30	150					ELTACON		5,5	-
KA01	BALL VALVE			-	-	BW	A105/316		STARLINE	-	-
		300	3"	300	3"	BW			213 SGS-S		
MBP05AA045	SHUT OFF VALVE	30	150					ELTACON		5,5	-
KA01	BALL VALVE			-	-	BW	A105/316		STARLINE	-	-
		300	3"	300	3"	BW			213 SGS-S		
MBP05AA050	SHUT OFF VALVE	30	150					ELTACON		5,5	-
KA01	BALL VALVE			-	-	BW	F316/316		STARLINE	-	-
		300	3"	300	3"	BW			216 RGT-G		
MBP05AA055	SHUT OFF VALVE	30	150					ELTACON		5,5	-
KA01	BALL VALVE			-	-	BW	F316/316		STARLINE	-	-
		300	3"	300	3"	BW			216 RGT-G		
MBP05AA205	VENT VALVE UNIT 1-5	30	150					ELTACON		1,0	-
KA01	BALL VALVE			-	-	BW	F316/316		STARLINE	-	-
		800	1/2" NPT	800	1/2" NPT	SCREWED			ALFA VALVOLE A20R		
MBP05AA205	VENT VALVE UNIT 6-9							ELTACON		1,0	-

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBP
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Prepared by S.MALMLÖV	Rev	07.01.12	Doc. no	Sheet 25
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		bar(g)	C								
KA01	BALL VALVE			-	1/2" NPT	SCREWED	SS F316	-	ALFA VALVOLE A20R	-	-
MBP05AA225	VENT VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA225	VENT VALVE 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA230	VENT. VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA230	VENT. VALVE UNIT 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA235	VENT. VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA235	VENT. VALVE 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA240	VENT. VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA240	VENT. VALVE UNIT 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-

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Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBP
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	HG 9100	Lang. E
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA245	VENT. VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA245	VENT. VALVE UNIT 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA250	VENT. VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA250	VENT. VALVE UNIT 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA255	DRAIN VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA255	DRAIN VALVE UNIT 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA265	DRAIN VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA265	DRAIN VALVE 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-

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Based on Doc no / revision	Orig	03.11.12		YAMAMA CEMENT	MBP
Checked by Göran Andersson 2005-10-26	Rev	05.03.04		Order no B4516	Archive -
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA270	DRAIN VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA270	DRAIN VALVE UNIT 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA280	DRAIN VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA280	DRAIN VALVE UNIT 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA305	NITROGEN PURGING VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA305	NITROGEN PURGING VALVE UNIT 6-9			800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-
MBP05AA310	NITROGEN PURGING VALVE UNIT 1-5	30	150	800	1/2" NPT	SCREWED	-	ELTACON	-	1,0	-
KA01	BALL VALVE			-	1/2" NPT	SCREWED	F316/316	-	ALFA VALVOLE A20R	-	-

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBP05AA310	NITROGEN PURGING VALVE UNIT 6-9							ELTACON		1,0	
KA01	BALL VALVE			800	1/2" NPT	SCREWED	F316/316		ALFA VALVOLE A20R		
MBP05AH010	INSULATION AND ELECTRICAL HEATING CABLE					SCREWED		ELTACON	RAYCHEM		
-R01	HEATING CABLE						1CS39523-3		10BTV2-CT		
MBP05AT015	GAS FUEL FILTER COALESCER	30	150							235	
KT01				300	3"	FLANGED	C.S.	ELTACON	ELTACON		
MBP05AT025	GAS FUEL FILTER COALESCER	30	150						ELT-CF-03-30-05-CS-MT	235	
KT01				300	3"	FLANGED	C.S.	ELTACON	ELTACON		
MBP10AA025	QUICK CLOSING VALVE	30	150					AXEL LARSSON			SPRING TO CLOSE, AIR TO OPEN
KA01	BALL VALVE					BUTT WELDED	1CS24360-1 F316/316		STARLINE		
MS01	PNEUMATIC ACTUATOR			300	3"	BUTT WELDED		AL33 SS216SGS-G	216SGS-G		
-S11	LIMIT SWITCH							AL77 250SRQ	REMOTE CONTROL RC 250SRQ		VALVE OPEN. IP67
-S21	LIMIT SWITCH						2036 608-2		RC-E4L		VALVE CLOSED. IP67
-Y01	SOLENOID VALVE					THREADED	2036 608-2		REMOTE CONTROL RC-E4L		
-Y02	SOLENOID VALVE					THREADED	ALUMINIUM 2036 008-1		LUCIFER		COIL 492453C2
						THREADED	BRASS		LUCIFER		COIL 492453C2
						THREADED			322K4706		

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			YAMAMA CEMENT	MBP								
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBP10AA030	QUICK CLOSING VALVE	30	150					AXEL LARSSON	-	-	SPRING TO CLOSE, AIR TO OPEN
KA01	BALL VALVE	-	-	-	-	BUTT WELDED	1CS24360-1 F316/316	-	-	-	-
MS01	PNEUMATIC ACTUATOR	300	3"	3"	3"	BUTT WELDED	AL33 SS216SGS-G	216SGS-G	REMOTE CONTROL	-	-
-S11	LIMIT SWITCH	-	-	-	-	-	AL77250SRQ	RC 250SR	REMOTE CONTROL	-	VALVE OPEN. IP67
-S21	LIMIT SWITCH	-	-	-	-	-	2036 608-2	RC-E4L	REMOTE CONTROL	-	VALVE CLOSED. IP67
-Y01	SOLENOID VALVE	-	-	-	-	THREADED	2036 608-2	RC-E4L	REMOTE CONTROL	-	COIL 492453C2
-Y02	SOLENOID VALVE	-	-	G1/4"	G1/4"	THREADED	2036 008-1	LUCIFER 34IN22	LUCIFER	-	COIL 492453C2
		-	-	G1"	G1"	THREADED	BRASS	LUCIFER 322K4706	LUCIFER	-	COIL 492453C2
MBP10AA035	GAS FUEL CONTROL VALVE, MAIN GAS	30	150				SKF	SKF	-	-	-
-B01	POSITION TRANSDUCER	-	-	-	-	-	QXT5DE03AAA02G	SENSOREX	SENSOREX	-	-
KA01	BALL VALVE	-	-	-	-	FLANGE	3820 334-7	ALLERTZ EXPORT LOTS	SX27RV120	-	-
-M01	AC-MOTOR	300	3"	3"	3"	FLANGE	A351CF8M	NELES	NELES	-	-
MS01	ROTARY ACTUATOR	-	-	-	-	-	MOOG	MOOG	QX-TSDE03AAA02	-	-
-S11	LIMIT SWITCH	-	-	-	-	-	2036 743-2	G403-517	SKF	-	-
-S21	LIMIT SWITCH	-	-	-	-	-	-	CRAB20	BARTEC	-	Cable length 5m.
-S31	LIMIT SWITCH	-	-	-	-	-	2408 582-2	BARTEC	07-2954-10 30/9	-	Cable length 5m.
MBP10AA040	PRESSURE REGULATING VALVE INSTRUMENT AIR MEMBRANE VALVE	10	60				FLENCO	BARTEC	07-2954-10 30/9	-	Cable length 5m.
KA01	MEMBRANE VALVE	-	-	G1/2"	G1/2"	THREADED	ALUMINIUM	HOERBIGER	-	-	Max 10 bar
		-	-	G1/2"	G1/2"	THREADED	-	CR1/2	-	-	-

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				YAMAMA CEMENT	MBP	
Based on Doc no / revision		Orig	03.11.12	Order no	B4516	Archive -
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Prepared by	S.MALMLÖV	Rev	07.01.12	2046037		Tot.
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GAS FUEL SYSTEM

AGGREGATE LIST

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBP10AA045	PRESSURE REGULATING VALVE	10	60					FLENCO		-	Max 10 bar
KA01	INSTRUMENT AIR MEMBRANE VALVE			-	G $\frac{1}{2}$ "	THREADED	ALUMINIUM		HOERBIGER CR $\frac{1}{2}$	-	
MBP10AA205	VENTILATION VALVE	30	150					AXEL LARSSON			SPRING TO OPEN, AIR TO CLOSED
KA01	FUEL GAS BALL VALVE			-	-	BUTT WELDED	1CS24358-1 F316/316		STARLINE	-	
MS01	PNEUMATIC ACTUATOR	300	1"	-	1"	BUTT WELDED		AL32 SS236SGS-G	236SGS-G	-	
-S11	LIMIT SWITCH			-				AL77 230SRF	REMOTE CONTROL	-	
-S21	LIMIT SWITCH			-			2036 608-2		REMOTE CONTROL	-	VALVE OPEN, IP67
-Y01	SOLENOID VALVE			-		THREADED	2036 608-2		REMOTE CONTROL	-	VALVE CLOSED, IP67
MBP10AA230	VENTILATION VALVE	30	150		G $\frac{1}{8}$ "	THREADED	ALUMINIUM		LUCIFER 34-1N31	-	COIL 492453.C2
KA01	NATURAL GAS BALL VALVE			-	-	BUTT WELDED	1CS24358-1 F316/316		STARLINE	-	SPRING TO OPEN, AIR TO CLOSED
MS01	PNEUMATIC ACTUATOR	300	1"	-	1"	BUTT WELDED		AL32 SS236SGS-G	236SGS-G	-	
-S11	LIMIT SWITCH			-				AL77 230SRF	REMOTE CONTROL	-	
-S21	LIMIT SWITCH			-			2036 608-2		REMOTE CONTROL	-	VALVE OPEN, IP67
-Y01	SOLENOID VALVE			-		THREADED	2036 608-2		REMOTE CONTROL	-	VALVE CLOSED, IP67
MBP10AA405	DRAIN VALVE	30	150		G $\frac{1}{8}$ "	THREADED	ALUMINIUM		LUCIFER 34-1N31	-	COIL 492453.C2
KA01	BALL VALVE			PN64	G $\frac{3}{4}$ "	THREADED	STAINLESS STEEL 2034 462-3	AXEL LARSSON AL17-20	STARLINE AL 236 GS	-	

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			YAMAMA CEMENT	MBP	
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	Archive -
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	HG	9100	Lang. E
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GAS FUEL SYSTEM

AGGREGATE LIST

SIEMENS

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBP10AH005	INSULATION AND HEATING CABLE	30	150					SIEMENS	RAYCHEM	-	-
-R01	HEATING CABLE			-	-	-	1CS39523-1	-	10BTV2-CT	-	-
MBP20AA005	GAS FUEL CONTROL VALVE, PRIMARY GAS			-	-	-		SKF	SKF	-	-
-B01	FUEL GAS POSITION TRANSDUCER			-	-	-		V20T5DE02AAA02G ALLERTZ EXPORT LOTS	SENSOREX SX27RV120	-	-
KA01	BALL VALVE			-	-	FLANGE	3820 334-7 A351CF8M	NELES	NELES V20T5DE 02 AAA02	-	-
-M01	AC-MOTOR	300	2"	2"	2"	FLANGE		MOOG	MOOG	-	-
MS01	ROTARY ACTUATOR			-	-	-	2036 743-1	-	G403-546 SKF	-	-
-S11	LIMIT SWITCH			-	-	-		BARTEC	CRAB20 BARTEC	-	Cable length 5m.
-S21	LIMIT SWITCH			-	-	-	2408 582-2	BARTEC	07-2954-10 30/09 BARTEC	-	Cable length 5m.
-S31	LIMIT SWITCH			-	-	-	2408 582-2	BARTEC	07-2954-10 30/09 BARTEC	-	Cable length 5m.

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Remark -	year-month-day	Title	Plant		Des					
			YAMAMA CEMENT	MBP						
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG	9100	Archive	-	Lang.	E
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS		Doc. no	2046037				
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07								
Prepared by S.MALMLÖV	Rev	07.01.12								

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBQ10AA005	PRESSURE REDUCING VALVE	15	40					AXEL LARSSON	VYC	-	DUAL FUEL DLE.
-	IGNITION GAS MEMBRANE VALVE			300	G 1/2"	G 1/2"	2033 550-3 THREADED ANSI 316	-	Model: 513, 56496	-	-
KA01				-	-	-	THREADED	-	-	-	-
MBQ10AA010	PRESSURE REDUCING VALVE	15	40					AXEL LARSSON	VYC	-	DUAL FUEL DLE.
-	IGNITION GAS MEMBRANE VALVE			300	G 1/2"	G 1/2"	2033 550-3 THREADED ANSI 316	-	Model: 513, 56496	-	-
KA01				-	-	-	THREADED	-	-	-	-
MBQ10AA015	PRESSURE REDUCING VALVE	15	40					AXEL LARSSON	VYC	-	DUAL FUEL DLE.
-	IGNITION GAS MEMBRANE VALVE			300	G 1/2"	G 1/2"	2033 550-3 THREADED ANSI 316	-	Model: 513, 56496	-	-
KA01				-	-	-	THREADED	-	-	-	-
MBQ10AA020	PRESSURE REDUCING VALVE	15	40					AXEL LARSSON	VYC	-	DUAL FUEL DLE.
-	IGNITION GAS MEMBRANE VALVE			300	G 1/2"	G 1/2"	2033 550-3 THREADED ANSI 316	-	Model: 513, 56496	-	-
KA01				-	-	-	THREADED	-	-	-	-
MBQ10AA025	THREE WAY VALVE	15	40					AXEL LARSSON	STARLINE	-	DUAL FUEL DLE.
-	IGNITION GAS BALL VALVE			-	G 1/2"	G 1/2"	2034 438-1 THREADED F316/316	AL37 SS 186 SGS-G L2	186 SGS-G L2	-	-
KA01				600	-	-	THREADED	-	-	-	-
MBQ10AA035	PRESSURE REDUCING VALVE	20	70							-	-
-	IGNITION GAS MEMBRANE VALVE			40	10	10	COUPLING	AL. ALLOY	FLENCO	-	ORIFICE 1.5 mm Spring 1/6 bar
KA01				-	-	-	COUPLING	2019 150	RV-MD310-100-20	-	-
MBQ10AA040	THREE-WAY VALVE	20	70							3	-
-	IGNITION GAS BALL VALVE			-	-	-		1CS24359-1	-	-	-
KA01				600	G 1/2"	G 1/2"	INTEG. NIPPLE	F316/316	STARLINE	-	-
MS01	ACTUATOR			-	-	-	INTEG. NIPPLE	-	286 SGT-V L2	-	-
				-	-	-	INTEG. NIPPLE	-	REMOTE CONTROL	-	-
				-	-	-	INTEG. NIPPLE	-	RC 210SR	-	-
MBQ10AA045	SHUT OFF VALVE	20	70							3	-
-	IGNITION GAS BALL VALVE			-	-	-		1CS24365-1	-	-	-
KA01				800	G 1/2"	G 1/2"	INTEG. NIPPLE	F316/316	STARLINE	-	-
				-	-	-	INTEG. NIPPLE	-	236 SGS-G	-	-

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				YAMAMA CEMENT	MBQ			
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		bar(g)	C								
MS01	ACTUATOR			-	-	-	-	-	REMOTE CONTROL	-	-
MBQ10AA050	CONTROL VALVE	15	60	-	-	-	-	SAPA SERVICE	-	-	-
KA01	IGNITION GAS NEEDLE VALVE			-	-	THREADED	AISI316	-	PARKER	-	-
MBQ10AA210	BYPASS VALVE	20	70	250	½"NPT	THREADED	2033331-2	FL ENCO	-	1	-
KA01	IGNITION GAS BALL VALVE			-	-	THREADED	F316/316	-	STARLINE 236 SGS-G	-	-
MBQ10AA215	NON RETURN VALVE	1	70	800lbs	G½"	THREADED		FL ENCO	-	-	-
KA01	POPPET VALVE			-	-	THREADED	AISI 316	-	PARKER 8F-C8L-5-SS	-	-
MBQ10AA405	SHUT OFF VALVE	10	70	-	½"NPT	THREADED		FL ENCO	-	-	-
KA01	INSTRUMENT AIR BALL VALVE			-	-	THREADED	A182 F316	-	STARLINE 236 SGS-G	-	-
MBQ10AA410	PRESSURE REGULATING VALVE	10	60	800	G1/2"	THREADED		FL ENCO	-	-	Max 16 bar
KA01	INSTRUMENT AIR MEMBRAN VALVE			-	-	THREADED	ALUMINIUM	-	HORBIGER CR½	-	-
MBQ10AA415	CONTROL VALVE	10	60	-	-	THREADED		SAPA SERVICE	-	-	-
KA01	INSTRUMENT AIR NEEDLE VALVE			-	-	THREADED	AISI 316	-	PARKER	-	-
MBQ10AA420	THREE-WAY VALVE	15	70	250	½"NPT	THREADED	2033331-2	FL ENCO	-	3	-
KA01	INSTRUMENT AIR BALL VALVE			-	-	INTEG. NIPPLE	F316/316	-	STARLINE 286 SGT-V L2	-	-
MS01	ACTUATOR			600	G1/2"	INTEG. NIPPLE		-	REMOTE CONTROL	-	-
MBQ10AA425	SHUT OFF VALVE	15	70	-	-	-		FL ENCO	-	3	-
KA01	INSTRUMENT AIR BALL VALVE			-	-	INTEG. NIPPLE	F316/316	-	STARLINE 236 SGS-G	-	-
MS01	ACTUATOR			800	G1/2"	INTEG. NIPPLE		-	REMOTE CONTROL	-	-
				-	-	-		-	RC 210SR	-	-

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBQ
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	Order no B4516	HG 9100
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	Doc. no	Archive -
Prepared by S.MALMLÖV	Rev	07.01.12	2046037	
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBQ10AA430	SOLENOID VALVE	10	70					FLENCO			COIL 493640, 24VDC
-Y01	INSTRUMENT AIR										
	SOLENOID					THREADED	BRASS		LUCIFER		
					G 1/4"	THREADED			E131K03		
MBQ10AA450	SOLENOID VALVE	10	70					FLENCO			COIL 493640, 24VDC
-Y01	INSTRUMENT AIR										
	SOLENOID					THREADED	BRASS		LUCIFER		
					G 1/4"	THREADED			E131K03		
MBQ10AH005	INSULATION AND HEATING CABLE							RAYCHEM			
-R01	HEATING CABLE						1CS39523-2		12XTV2-CT		
MBQ10AH010	HEATER IN IGNITION GAS CABINET							SAPA SERVICE	BARTEC		
-R01	HEATER								27-2551-2720		THERMOSWITCH: BARTEC 07-5103-1100/7555- 6/4P-2/4W ; 2033 739-1
							2032 960-1				DUAL FUEL DLE.
MBQ10BB005	GAS BOTTLE										
	IGNITION GAS										
KB01	PROPANE										MIN 11KG PROPANE, LOCALLY BOUGHT
											DUAL FUEL DLE.
MBQ10BB010	GAS BOTTLE										
	IGNITION GAS										
KB01	PROPANE										MIN 11KG PROPANE, LOCALLY BOUGHT
											DUAL FUEL DLE.
MBQ10BB015	GAS BOTTLE										
	IGNITION GAS										
KB01	PROPANE										MIN 11KG PROPANE, LOCALLY BOUGHT
											DUAL FUEL DLE.
MBQ10BB020	GAS BOTTLE										
	IGNITION GAS										
KB01	PROPANE										MIN 11KG PROPANE, LOCALLY BOUGHT
											DUAL FUEL DLE.

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig		YAMAMA CEMENT	MBQ
Checked by Göran Andersson 2005-10-26	Rev	03.11.12	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.03.04	HG 9100	Lang. E
Prepared by S.MALMLÖV	Rev	05.09.07	Doc. no	Sheet 35
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SIEMENS

IGNITION GAS SYSTEM

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		bar(g)	C								
MBQ10BP005	ORIFICE IGNITION GAS	15	60	-	-	-	-	SIEMENS	SAPA SERVICE	-	-
KA01	-	-	-	-	-	THREADED	51054286	-	-	-	-
KA01	-	-	-	-	G 1/4"	THREADED	-	-	-	-	-
MBQ20AA005	SHUT OFF VALVE IGNITION GAS	20	70	-	-	-	-	FLENCO	-	-	DUAL FUEL DLE.
KA01	BALL VALVE	-	-	-	-	THREADED	F316/316	-	STARLINE	-	-
KA01	-	-	-	800	G 3/4"	THREADED	-	-	236 SGS-G	-	-
MS01	ACTUATOR	-	-	-	-	-	-	-	REMOTE CONTROL	-	-
-S21	LIMIT SWITCH	-	-	-	-	-	-	-	RC 210 SR	-	VALVE CLOSED
-Y01	SOLENOID VALVE	-	-	-	-	THREADED	2036 608-2	-	RC-E4L-MEC	-	COIL 492453.C2
-	-	-	-	-	G 1/4"	THREADED	ALUMINIUM	-	LUCIFER	-	-
-	-	-	-	-	G 1/4"	THREADED	-	-	34-1N31	-	-
MBQ20AA015	SHUT OFF VALVE IGNITION GAS	30	150	-	-	-	-	AXEL LARSSON	-	-	DUAL FUEL DLE.
KA01	BALL VALVE	-	-	-	-	THREADED	F316/316	-	STARLINE	-	-
KA01	-	-	-	800	G 3/4"	THREADED	-	-	236 SGS-G	-	-
MS01	ACTUATOR	-	-	-	-	-	-	-	REMOTE CONTROL	-	-
-S21	LIMIT SWITCH	-	-	-	-	-	-	-	RC 210SR	-	VALVE CLOSED
-Y01	SOLENOID VALVE	-	-	-	-	THREADED	2036 608-2	-	RC-E4L-MEC	-	COIL 492453.C2
-	-	-	-	-	G 1/4"	THREADED	BRASS	-	LUCIFER	-	-
-	-	-	-	-	G 1/4"	THREADED	-	-	E131K03	-	DUAL FUEL DLE.
MBQ20AA020	SHUT OFF VALVE IGNITION GAS	30	150	-	-	-	-	AXEL LARSSON	-	-	DUAL FUEL DLE.
KA01	BALL VALVE	-	-	-	-	THREADED	F316/316	-	STARLINE	-	-
KA01	-	-	-	800	G 3/4"	THREADED	-	-	236 SGS-G	-	-
MS01	ACTUATOR	-	-	-	-	-	-	-	REMOTE CONTROL	-	-
-S21	LIMIT SWITCH	-	-	-	-	-	-	-	RC 210SR	-	VALVE CLOSED
-Y01	SOLENOID VALVE	-	-	-	-	THREADED	2036 608-2	-	RC-E4L-MEC	-	COIL 492453.C2
-	-	-	-	-	G 1/4"	THREADED	BRASS	-	LUCIFER	-	-
-	-	-	-	-	G 1/4"	THREADED	-	-	E131K03	-	DUAL FUEL DLE.

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			YAMAMA CEMENT	MBQ						
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG	9100	Archive	-	Lang.	E
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS		Doc. no	2046037				
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07								
Prepared by S.MALMLÖV	Rev	07.01.12								

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBQ20AA205	VENTILATION VALVE	20	70					FLENCO	-	-	DUAL FUEL DLE.
KA01	IGNITION GAS BALL VALVE			-	-	THREADED	F316/316	-	STARLINE	-	-
				800	G½"	THREADED		-	236 SGS-G	-	-
MBQ20AA210	VALVE IGNITION GAS	30	150					FLENCO	-	-	DUAL FUEL DLE.
KA01				-	½"	THREADED	S.S. 316	-	TECHNICAL	-	ORIFICE 3/8"
				-	NPT	THREADED		-	200-040-60	-	-

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			YAMAMA CEMENT	MBQ					
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG 9100	Archive -	Lang.	E	
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS		Doc. no	2046037	Sheet	37	
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST		Tot. 72				
Prepared by S.MALMLÖV	Rev	07.01.12							

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBV10AA210	SHUT OFF VALVE	ATM	100					FLENCO	STARLINE	5.5	WITH LOCK SYSTEM.
KA01	LUBE OIL BALL VALVE			PN16	2"		CARBON STEEL	-	233SGS-G		TRIM MTRL. S.S. BSP-thread.
MBV10AH005	LUBE OIL HEATER							FLENCO	MASTERWATT 73U01500D000019	56	SAFE AREA
-R01	LUBE OIL HEATER			PN16		DN150	CARBON STEEL	-			BSP, Parallell - ISO 228/1
MBV10AH010	LUBE OIL HEATER							FLENCO	MASTERWATT 73U01500D000019	56	SAFE AREA
-R01	LUBE OIL HEATER			PN16		DN150	CARBON STEEL	-			
MBV10AN005	OIL SYSTEM VENTILATION FAN							FLENCO			
KN01	FAN				150			-	AERTECH		
-M01	AC-MOTOR							-	VG450N/2 ABB	32	70°C AMB. TEMP./IP55/IC411 SAFE AREA/IM3001 (+068, +040)
MBV10AT005	OIL MIST FILTER							FLENCO	KOCH S.p.A	210/260	KOCH CARTRIDGE No. BD- PRF 1870, BD-SFF 10.570
KT01	FILTER						STAINL. STEEL AISI316L	-	see remark		BD-PRF/SFF 18-10.57 MK11
MBV10AT015	OIL FILLING STRAINER	ATM	100					FLENCO		1.5	
KT01	LUBE OIL STRAINER			PN16	DN60		STAINL. STEEL AISI316	-	FLENCO NSL-44		
MBV10BB005	LUBE OIL TANK	ATM	100					FLENCO		3580	
KD01	LUBE OIL TANK						CARBON STEEL	-			
MBV10BP010	SIPHON BREAKER	ATM	80					FLENCO			
KA01	LUBE OIL ORIFICE							-			DRILLED Ø3mm HOLE IN SUCTION PIPE

Remark	-	year-month-day		Title	Plant	Des
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Appr. by Fredrik Andersson 2005-10-26		Rev	05.09.07		HG 9100	Lang. E
Prepared by S.MALMLÖV		Rev	07.01.12		Doc. no	Sheet 38
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LUBE OIL SYSTEM

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		bar(g)	C								
MBV21BP005	ORIFICE, MAIN OIL PUMP VENT	6	80					FLENCO	FLENCO	-	DRILLED Ø4 mm hole (INCL. OM PUMP)
-	LUBE OIL										
KA01	ORIFICE										
MBV22AA010	NON RETURN VALVE, MAIN OIL PUMP MBV22 AP005	6	80					FLENCO	ITAL GESTRA	2.4	
-	LUBE OIL								VR14		
KA01	NON RETURN VALVE			PN16	100		CARBON STEEL				
MBV22AA015	SHUT OFF VALVE, MAIN OIL PUMP MBV22 AP005 PRESSURE SIDE	6	80					FLENCO		48	WITH LOCK SYSTEM. MTRL. S.S. TRIM
-	LUBE OIL								RIP		
KA01	FLANGED GLOBE VALVE			PN16	100		CAST IRON				
MBV22AP005	LUBE OIL PUMP UNIT, MAIN OIL PUMP UNIT 1-5	6	80					FLENCO	ALLWEILER		
-	THERMISTOR										INCL. IN MOTOR
KP01	CENTRIFUGAL PUMP			PN16	50	80	CAST. IRON		ALLWEILER	220	VERTICAL/2900 rpm WHEELDIA. 205MM
-	STRAINER								ANS 50-250/01		INCL. ON PUMP SUCTION
-M01	AC MOTOR								ABB	175	70° C AMB. TEMP/IP55/IC411 SAFE AREA/IM3011 (+068, +040,+436)
MBV22AP005	LUBE OIL PUMP UNIT, MAIN OIL PUMP UNIT 6-9	6	80					FLENCO	M2AA200MLA-2 ALLWEILER		
-	THERMISTOR										INCL. IN MOTOR
KP01	CENTRIFUGAL PUMP			PN16	50	80	CAST. IRON		ALLWEILER	220	VERTICAL/2900 rpm WHEELDIA. 205MM
-									ANS 50-250/01		

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				YAMAMA CEMENT	MBV				
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Prepared by S.MALMLÖV		Rev	07.01.12	AGGREGATE LIST					2046037

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KT01	STRAINER										INCL. ON PUMP SUCTION
-M01	AC MOTOR								ABB	175	70° C AMB. TEMP./IP55/IC411 SAFE AREA/IM3011 (+068, +040,+436)
									M3AA200MLA-2		
MBV22BP005	ORIFICE, MAIN OIL PUMP VENT	6	80					FLENCO			DRILLED Ø4 mm hole (INCL. OM PUMP)
	LUBE OIL										
KA01	ORIFICE										
MBV23AA010	NON RETURN VALVE, MAIN OIL PUMP MBV23 AP005	6	80					FLENCO	ITAL GESTRA	2.4	
	LUBE OIL										
KA01	NON RETURN VALVE			PN16	100		CARBON STEEL		VR14		
MBV23AA015	SHUT OFF VALVE, MAIN OIL PUMP MBV23 AP005 PRESSURE SIDE	6	80					FLENCO		48	WITH LOCK SYSTEM. TRIM MTRL. S.S.
	LUBE OIL								RIP		
KA01	FLANGED GLOBE VALVE			PN16	100		CAST IRON				
MBV23AP005	LUBE OIL PUMP UNIT, MAIN OIL PUMP UNIT 1-5	6	80					FLENCO	ALLWEILER		
	THERMISTOR										INCL. IN MOTOR
KP01	CENTRIFUGAL PUMP			PN16	50 80	DN100	CAST IRON		ALLWEILER	220	VERTICAL/2900 rpm WHEELDIA 205MM
	STRAINER								ANS 50-250/01		INCL. ON PUMP SUCTION
-M01	AC MOTOR								ABB	175	70° C AMB. TEMP./IP55/IC411 SAFE AREA/IM3011 (+068, +040,+436)
									M2AA200 MLA-2		
MBV23AP005	LUBE OIL PUMP UNIT, MAIN OIL PUMP UNIT 6-9							FLENCO	ALLWEILER		

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Prepared by S.MALMLÖV		05.09.07						
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		bar(g)	C								
-K01	THERMISTOR			-	-	-	-	-	-	-	INCL. IN MOTOR
KP01	CENTRIFUGAL PUMP			PN16	50	DN100	CAST IRON	-	ALLWEILER	220	VERTICAL/2900 rpm WHEEL DIA 205MM
-KT01	STRAINER			-	-	-	-	-	ANS 50-250/01	-	INCL. ON PUMP SUCTION
-M01	AC MOTOR			-	-	-	-	-	ABB	175	70°C AMB. TEMP./IP55/IC411 SAFE AREA/IM3011 (+068, +040,+436)
				-	-	-	-	-	M3AA200 MLA-2	-	
MBV23BP005	ORIFICE, MAIN OIL PUMP VENT	6	80					FLENCO	FLENCO	-	DRILLED Ø4 mm hole (INCL. ON PUMP)
-KA01	LUBE OIL ORIFICE			-	-	-	-	-	-	-	-
MBV30AA020	TEMPERATURE REGULATING VALVE	6	80					FLENCO	AMOT	61	MINERAL OIL ISOVG46 (50 °C NOMINAL TO BEARINGS)
-KA01	LUBE OIL THREE WAY VALVE			PN16	100	-	CAST IRON	-	4BRCB12007-00-AA	-	-
				-	-	-	-	-	FLENCO	14	-
MBV30AA025	PRESSURE ADJUSTING VALVE	6	80					FLENCO	-	-	-
-KA01	LUBE OIL ADJUSTABLE ORIFICE			PN16	100	-	STAINL. STEEL	-	-	-	-
				-	-	-	-	-	NSL 57	-	-
MBV30AA030	SHUT OFF VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	19.5	-
-KA01	LUBE OIL BALL VALVE			PN16	100	-	SS 2343 2034 463-1	-	AL25-SS-PN16-DN100	-	-
				-	-	-	-	-	-	-	-
MBV30AA035	SHUT OFF VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	19.5	-
-KA01	LUBE OIL BALL VALVE			PN16	100	-	SS 2343 2034 463-1	-	AL25-SS-PN16-DN100	-	-
				-	-	-	-	-	-	-	-
MBV30AA040	SHUT OFF VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	19.5	-
-KA01	LUBE OIL BALL VALVE			PN16	100	-	SS 2343 2034 463-1	-	AL25-SS-PN16-DN100	-	-
				-	-	-	-	-	-	-	-

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Based on Doc no / revision			03.11.12		YAMAMA CEMENT	MBV
Checked by	Göran Andersson	Resp. dept.	05.03.04		Order no	B4516
Appr. by	Fredrik Andersson	Latest rev.	05.09.07		HG	9100
Prepared by	S.MALMLÖV				Doc. no	2046037
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		bar(g)	C								
MBV30AA045	SHUT OFF VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	19.5	-
KA01	LUBE OIL BALL VALVE			PN16	100	-	SS 2343 2034 463-1	AL25-SS-PN16-DN100	-	-	-
MBV30AA050	SHUT OFF VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	19.5	-
KA01	LUBE OIL BALL VALVE			PN16	100	-	SS 2343 2034 463-1	AL25-SS-PN16-DN100	-	-	-
MBV30AA055	SHUT OFF VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	19.5	-
KA01	LUBE OIL BALL VALVE			PN16	100	-	SS 2343 2034 463-1	AL25-SS-PN16-DN100	-	-	-
MBV30AA220	VENT VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	0.3	-
KA01	LUBE OIL BALL VALVE			PN64	-	G 1/2"	STAINL. STEEL 2034 462-2	AL17-DN15	-	-	ISO 228/1
MBV30AA225	DRAIN VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	0.3	-
KA01	LUBE OIL BALL VALVE			PN64	-	G 1/2"	STAINL. STEEL 2034 462-2	AL17-DN15	-	-	ISO 228/1
MBV30AA230	VENT VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	0.3	-
KA01	LUBE OIL BALL VALVE			PN64	-	G 1/2"	SS 2343 2034 462-2	AL17-DN15	-	-	ISO 228/1
MBV30AA235	DRAIN VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	0.3	-
KA01	LUBE OIL BALL VALVE			PN64	-	G 1/2"	SS 2343 2034 462-2	AL17-DN15	-	-	ISO 228/1
MBV30AA250	VENT VALVE, AIR COOLED OIL COOLER	6	80					AXEL LARSSON	-	0.3	-
KA01	LUBE OIL BALL VALVE			PN64	-	G 1/2"	SS 2343 2034 462-2	AL17-DN15	-	-	ISO 228/1

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Prepared by S.MALMLÖV	Rev	07.01.12		2046037	
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBV30AA255	DRAIN VALVE, AIR COOLED OIL COOLER	6	80				AXEL LARSSON			0.3	-
-	LUBE OIL						AL17-DN155				
KA01	BALL VALVE			PN64		G 1/2"	SS 2343 2034.462-2				ISO 228/1
MBV30AC015	OIL COOLER, AIR COOLED	6	80				ECODYNE				-
-	LUBE OIL				4"			EK 4332/2052-5/2			+55°C COOLER CAPAC. ANSI B16.5
KH01	COOLER										
-				150lbs							
MBV30AC020	OIL COOLER, AIR COOLED	6	80				ECODYNE				-
-	LUBE OIL							EK 4332/2052-5/2			+55°C COOLER CAPAC. ANSI B16.5
KH01	COOLER				4"						
-				150lbs							
MBV30AC025	OIL COOLER, AIR COOLED	6	80				ECODYNE				-
-	LUBE OIL							EK 4332/2052-5/2			+55°C COOLER CAPAC. ANSI B16.5
KH01	COOLER				4"						
-				150lbs							
MBV30AN015	FAN, AIR COOLED OIL COOLER UNIT 1-5						ECODYNE				-
-	FAN							ECODYNE			-
KN01								B410/1600 FD			-
-M01	AC-MOTOR							AEG			-
-								AM 160L ZA 8Y4			-
MBV30AN015	FAN, AIR COOLED OIL COOLER UNIT 6-9						ECODYNE				-
-	FAN							ECODYNE			-
KN01								10320-08			-
-M01	AC-MOTOR							VEM			-
-								K21R160L8TWSHW			-

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Remark	-	year-month-day	Title	Plant	Des
Based on Doc no / revision		Orig	03.11.12	YAMAMA CEMENT	MBV
Checked by Göran Andersson 2005-10-26		Rev	05.03.04	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26		Rev	05.09.07	HG 9100	Lang. E
Prepared by S.MALMLÖV		Rev	07.01.12	Doc. no	Sheet 44
				SIEMENS	Tot. 72
				2046037	

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN.		BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C			inlet	outlet					
MBV30AN020	FAN, AIR COOLED OIL COOLER UNIT 1-5								ECODYNE			
KN01	FAN								ECODYNE	B410/1600 FD		
-M01	AC-MOTOR								AEG	AM 160L ZA 8Y4		
MBV30AN020	FAN, AIR COOLED OIL COOLER UNIT 6-9								ECODYNE			
KN01	FAN								ECODYNE	10320-08		
-M01	AC-MOTOR								VEM	K21R160L8TWSHW		
MBV30AN025	FAN, AIR COOLED OIL COOLER UNIT 1-5								ECODYNE			
KN01	FAN								ECODYNE	B410/1600 FD		
-M01	AC-MOTOR								AEG	AM 160L ZA 8Y4		
MBV30AN025	FAN, AIR COOLED OIL COOLER UNIT 6-9								ECODYNE			
KN01	FAN								ECODYNE	10320-08		
-M01	AC-MOTOR								VEM	K21R160L8TWSHW		
MBV30BP005	ORIFICE, BYPASS COOLER LUBE OIL ORIFICE	6	80						FLENCO	FLENCO		DIAMETER. PROJ. SPECIFIC 58 MM
KA01	ORIFICE							STAINL. STEEL				
MBV30BP215	ORIFICE, OIL PIPING VENT LUBE OIL	6	80						FLENCO	FLENCO		Ø3 mm

Remark -	year-month-day		Title
Based on Doc no / revision	Orig	03.11.12	
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	LUBE OIL SYSTEM
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST
Prepared by S.MALMLÖV	Rev	07.01.12	
Plant		Des	
YAMAMA CEMENT		MBV	
Order no B4516	HG 9100	Archive -	
Doc.no		2046037	
Lang.		E	
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Tot.		72	

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	ORIFICE			-	-	-	STAINL. STEEL	-	-	-	-
MBV30BP220	ORIFICE, OIL PIPING VENT	6	80	-	-	-	FLENCO	FLENCO	-	-	Ø3mm
KA01	LUBE OIL ORIFICE			-	-	-	STAINL. STEEL	-	-	-	-
MBV30BP225	ORIFICE, AIR COOLED OIL COOLER VENT	6	80	-	-	-	SIEMENS	SIEMENS	-	-	Ø9 mm
KA01	LUBE OIL ORIFICE			-	-	-	STAINL. STEEL	-	-	-	-
MBV30BP230	ORIFICE, AIR COOLED OIL COOLER VENT	6	80	-	-	-	SIEMENS	SIEMENS	-	-	Ø9 mm
KA01	LUBE OIL ORIFICE			-	-	-	STAINL. STEEL	-	-	-	-
MBV30BP235	ORIFICE, AIR COOLED OIL COOLER VENT	6	80	-	-	-	SIEMENS	SIEMENS	-	-	Ø9 mm
KA01	LUBE OIL ORIFICE			-	-	-	STAINL. STEEL	-	-	-	-
MBV40AA005	CHANGE OVER VALVE, LUBE OIL FILTER	6	80	-	-	-	FLENCO	VOKES	-	-	BALL SG IRON
KA01	LUBE OIL BALL VALVE			PN16	DN100	-	CARBON STEEL	-	-	-	-
MBV40AA010	CHANGE OVER VALVE, LUBE OIL FILTER	6	80	-	-	-	FLENCO	VOKES	-	-	BALL SG IRON
KA01	LUBE OIL BALL VALVE			PN16	DN100	-	CARBON STEEL	-	-	-	-
MBV40AA015	EQUALISATION VALVE, LUBE OIL FILTER	6	80	-	-	-	FLENCO	VOKES	-	-	-
KA01	LUBE OIL BALL VALVE			PN16	½"	-	CARBON STEEL	-	-	-	NPT-F
MBV40AA020	OIL SAMPLING VALVE	6	80	-	-	-	FLENCO	STARLINE	-	1.3	(TRIM MTRL. S.S.) BSP, Parallel - ISO228/1
-	LUBE OIL			-	-	-	-	233SGS-G	-	-	-

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBV
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	HG 9100	Lang. E
Prepared by S.MALMLÖV	Rev	07.01.12	Doc. no	Sheet 46
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		bar(g)	C								
KA01	BALL VALVE			PN16	1/2"	-	CARBON STEEL	-	-	-	-
MBV40AA205	DRAIN VALVE, PIPING SYSTEM LUBE OIL	6	80				FLENCO		STARLINE	2.3	(TRIM MTRL. S.S.) BSP, Parallell - ISO 228/1
KA01	BALL VALVE			PN16	3/4"	-	CARBON STEEL	-	233SGS-G	-	BSP, Parallell - ISO 228/1
MBV40AA210	SHUT OFF VALVE LUBE OIL	16	80				SAPA		STARLINE	1.3	-
KA01	BALL VALVE			PN16	G 3/4"	-	ANSI316	-	236SGS-G	-	FULL BORE BSP, Parallell - ISO 228/1
MBV40AA215	DRAIN VALVE, LUBE OIL FILTER	6	80				FLENCO		STARLINE	2.3	(TRIM MTRL. S.S.)
KA01	BALL VALVE			PN16	3/4"	-	CARBON STEEL	-	233SGS-G	-	BSP, Parallell - ISO 228/1
MBV40AA220	DRAIN VALVE, LUBE OIL FILTER	6	80				FLENCO		STARLINE	2.3	(TRIM MTRL. S.S.)
KA01	BALL VALVE			PN16	3/4"	-	CARBON STEEL	-	233SGS-G	-	BSP, Parallell - ISO 228/1
MBV40AA225	VENT VALVE, LUBE OIL FILTER	6	80				FLENCO		STARLINE	1.3	(TRIM MTRL. S.S.)
KA01	BALL VALVE			PN16	1/2"	-	CARBON STEEL	-	233SGS-G	-	BSP, Parallell - ISO 228/1
MBV40AA230	VENT VALVE FILTER	6	80				FLENCO		STARLINE	1.3	(TRIM MTRL. S.S.)
KA01	BALL VALVE			PN16	1/2"	-	CARBON STEEL	-	233SGS-G	-	BSP, Parallell - ISO 228/1
MBV40AA235	DRAIN VALVE, LUBE OIL FILTER	6	80				FLENCO		STARLINE	2.3	(TRIM MTRL. S.S.)
KA01	BALL VALVE			PN16	3/4"	-	CARBON STEEL	-	233SGS-G	-	BSP, Parallell - ISO 228/1
MBV40AA240	DRAIN VALVE, LUBE OIL FILTER	6	80				FLENCO		STARLINE	2.3	(TRIM MTRL. S.S.)
KA01	BALL VALVE			PN16	3/4"	-	CARBON STEEL	-	233SGS-G	-	BSP, Parallell - ISO 228/1

Remark -	year-month-day		Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12		YAMAMA CEMENT	MBV
Checked by Göran Andersson 2005-10-26	Rev	05.03.04		Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07		HG 9100	Lang. E
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AGGREGATE LIST

LUBE OIL SYSTEM

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		bar(g)	C								
MBV40AT005	LUBE OIL FILTER	6	80					FLENCO	VOKES	254/315	CARTRIDGE NO VOKES D6360529 (MICROFIBRE)
- KT01	LUBE OIL FILTER			PN16	DN100	-	CARBON STEEL	-	FDD33/E6372605/30	-	10 MICRON ABSOLUTE
MBV40AT010	LUBE OIL FILTER	6	80					FLENCO	VOKES	254/315	CARTRIDGE NO VOKES D6360529 (MICROFIBRE)
- KT01	LUBE OIL FILTER			PN16	DN100	-	CARBON STEEL	-	FDD33/E6372605/30	-	10 MICRON ABSOLUTE
MBV40BP205	ORIFICE, LUBE OIL FILTER VENT	6	80					FLENCO	FLENCO		Ø3mm
- KA01	LUBE OIL ORIFICE			-	-	-	STAINL. STEEL	-	-	-	-
MBV40BP210	ORIFICE, LUBE OIL FILTER VENT	6	80					FLENCO	FLENCO		Ø3mm
- KA01	LUBE OIL ORIFICE			-	-	-	STAINL. STEEL	-	-	-	-
MBV51AA005	SHUT OFF VALVE	16	80					FLENCO	STARLINE	10.3	(WITH LOCK SYSTEM) (TRIM MTRL. S.S.) FULL BORE
- KA01	LUBE OIL BALL VALVE			PN16	DN40	-	CARBON STEEL	-	133SGS-G	-	-
MBV51AA010	CHECK VALVE	16	80					FLENCO	TECHNICAL 4SV1R016	12	TRIM MTRL. S.S.
- KA01	LUBE OIL SPRINGLOADED SAFETY VALVE			PN16	DN25	-	CARBON STEEL	-	-	-	-
MBV51AA015	SHUT OFF VALVE	16	80					FLENCO	STARLINE	6	TRIM MTRL. S.S.
- KA01	BALL VALVE			PN16	DN25	-	CARBON STEEL	-	133SGS-G	-	-
MBV51AP005	LUBE OIL HIGH PRESSURE PUMP	16	80					FLENCO	ALLWEILER		-
- -K01	LUBE OIL THERMISTOR			-	-	-	-	-	-	-	INCL. IN MOTOR

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							03.11.12	LUBE OIL SYSTEM	YAMAMA CEMENT	MBV
							05.03.04		Order no B4516	Archive -
							05.09.07		HG 9100	Lang. E
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	RELIEF VALVE			-	-	-	-	-	-	T	INCL. IN PUMP
KP01	SCREW PUMP			-	1 1/2"	-	NODULAR IRON	-	ALLWEILER	20	(SAE-conn.) (50 Hz), 2900 rpm
-M01	AC MOTOR			-	-	-	-	-	TRILUB 40R41U18-V-W117 ABB	32	MOTOR BEARING 2, 70°C AMB. TEMP./IP55/IC411 SAFE AREA/IM 3011(+068,+040,+436)
				-	-	-	-	FLENCO	M2AA 100L-2		
MBV52AA005	SHUT OFF VALVE	16	80	-	-	-	-	FLENCO	STARLINE	10.3	WITH LOCK SYSTEM. TRIM MTRL. S.S. FULL BORE
-	LUBE OIL								133SGS-G		
KA01	BALL VALVE			PN16	DN40	-	CARBON STEEL	-	-	-	-
				-	-	-	-	FLENCO	TECHNICAL 4SV1R016	12	TRIM MTRL. S.S.
KA01	CHECK VALVE LUBE OIL SPRINGLOADED SAFETY VALVE	16	80	PN16	DN25	-	CARBON STEEL	-	-	-	-
				-	-	-	-	FLENCO	STARLINE	6	WITH LOCK SYSTEM. MTRL. S.S. FULL BORE.
MBV52AA015	SHUT OFF VALVE	16	80	-	-	-	-	FLENCO	STARLINE	6	WITH LOCK SYSTEM. MTRL. S.S. FULL BORE.
-	LUBE OIL								133SGS-G		
KA01	BALL VALVE			PN16	DN25	-	CARBON STEEL	-	-	-	-
				-	-	-	-	FLENCO	ALLWEILER	-	-
MBV52AP005	LUBE OIL HIGH PRESSURE PUMP	16	80	-	-	-	-	FLENCO	ALLWEILER	-	-
-	LUBE OIL										
-K01	THERMISTOR			-	-	-	-	-	-	-	INCL. IN MOTOR
-	RELIEF VALVE			-	-	-	-	-	-	-	INCL. IN PUMP
KA01	RELIEF VALVE			-	-	-	-	-	-	T	INCL. IN PUMP
-	SCREW PUMP			-	1 1/2"	-	NODULAR IRON	-	ALLWEILER	20	(SAE-conn.) (50 Hz), 2900 rpm
-	AC MOTOR			-	-	-	-	-	TRILUB 40R41U18-V-W117 ABB	32	MOTOR BEARING 2, 70°C AMB. TEMP./IP55/IC411 SAFE AREA/IM3011(+068,+040,+436)
-M01	AC MOTOR			-	-	-	-	-	M2AA 100L-2		
-				-	-	-	-	-			

Remark -	Based on Doc no / revision	Checked by	Appr. by	Prepared by	Resp. dept.	Latest rev.	year-month-day	Title	Plant	Des
		Göran Andersson 2005-10-26	Fredrik Andersson 2005-10-26	S.MALMLÖV	GPML	d	03.11.12	LUBE OIL SYSTEM	YAMAMA CEMENT	MBV
							05.03.04		Order no B4516	Archive -
							05.09.07		HG 9100	-
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
MBV54AA020	SHUT OFF VALVE	16	80					FLENCO	STARLINE	2.3	-
KA01	LUBE OIL BALL VALVE			PN16	G ^{3/4} "		AISI316				(TRIM)MTRL. S.S.) FULL BORE BSP, Parallell - ISO 228/1
MBV60AA005	FLOAT VALVE, DRAIN TANK							SONSTORP MEKANISKA	SONSTORP MEKANISKA		-
KA01	LUBE OIL FLOAT VALVE						STAINL. STEEL 2034.305-1			7.5	-
MBV60AA010	FLOAT VALVE, DRAIN TANK							SONSTORP MEKANISKA	SONSTORP MEKANISKA		-
KA01	LUBE OIL FLOAT VALVE						STAINL. STEEL 2034.305-1			7.5	-
MBV60AA015	DUMPING VALVE							SAPA	FAGERBERG	11	BEARING NO. 2
KA01	LUBE OIL BALL VALVE				32	WELDED	2022291 STAINL. STEEL		WORCESTER		-
MS01	PNEUMATIC ACTUATOR								A459-666TTTZ-BWJ NORBRO		-
-S11	LIMIT SWITCH								K-CONTROL		VALVE OPEN
-S21	LIMIT SWITCH								K-CONTROL		VALVE CLOSED
-Y01	SOLENOID VALVE								HERION 8020474		-
MBV60BB005	DRAIN TANK	15	130								BEARING NO. 2. ASME sect. VII Div. 1
KD01	LUBE OIL TANK						CARBON STEEL 2034.305-1	SONSTORP MEKANISKA	SONSTORP MEKANISKA	450	-
MBV60BP005	ORIFICE, DRAIN TANK VENT							SAPA	SAPA		Ø = 10.5 mm
KA01	LUBE OIL ORIFICE						SS 2333-02 2022.050-2				-
MKA10BP010	ORIFICE										ONLY UNIT 6-9

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			YAMAMA CEMENT	MBV						
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG 9100	Archive -	Lang.	E		
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS				Doc. no	2046037	Sheet	51
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Prepared by S.MALMLÖV	Rev	07.01.12	AGGREGATE LIST							

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA bar(g) C	PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
MKA10BP015	ORIFICE									ONLY UNIT 6-9

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Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig		YAMAMA CEMENT	MBV
Checked by Göran Andersson 2005-10-26	Rev		Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev		HG 9100	Lang. E
Prepared by S.MALMLÖV	Rev		Doc. no 2046037	Sheet 52
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		LUBE OIL SYSTEM		
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		bar(g)	C								
MKA10AH005	STAND STILL HEATER						IBR-1821	ABB ISY	LAVAL OY	-	-
-R01	HEATER IN STATOR			-	-	-		-	-	-	-
-R02	HEATER IN STATOR			-	-	-		-	-	-	-
-R03	HEATER IN STATOR			-	-	-		-	-	-	-
-R04	HEATER IN HIGH VOLTAGE ENCLOSURE			-	-	-		-	-	-	-
MKA10AH015	MOTOR			-	-	-		-	-	-	-
-M01				-	-	-		-	-	-	-
MKC10AH005	STAND STILL HEATER							ABB ISY	LAVAL OY IBR-1821	-	-
-R01	HEATER IN EXCITER			-	-	-		-	-	-	-

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Remark -	year-month-day	Title	Plant		Des					
			YAMAMA CEMENT	MK						
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG	9100	Archive	-	Lang.	E
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS		Doc. no	2046037	Sheet	53	Tot.	72
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST							
Prepared by S.MALMLÖV	Rev	07.01.12								

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		bar(g)	C								
QFA05AA100	SHUT-OFF VALVE INSTR. AIR	10	60					KSG	PARKER	-	HG4120
KA01	SHUT-OFF VALVE	-	-	-	12	-	-	-	M12A-B8L-J2-SS	-	-
QFA10AA140	SHUT-OFF VALVE INSTR. AIR	10	60					SAPA	AXEL LARSSON	-	HG4011
KA01	SHUT-OFF VALVE	-	-	-	DN20	-	2034 462-3	-	-	-	-
QFA10AA155	SHUT-OFF VALVE INSTR. AIR	10	60					KSG	PARKER	-	HG4120
KA01	SHUT-OFF VALVE	-	-	-	12	-	-	-	M12A-B8L-J2-SS	-	-
		-	-	-	-	-	-	-	-	-	-

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Remark -	year-month-day	Title	Plant		Des				
			YAMAMA CEMENT	QFA					
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG 9100	Archive	-	Lang.	E
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS		Doc. no	2046037		Sheet	54
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST				Tot.	72	
Prepared by S.MALMLÖV	Rev	07.01.12							

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
SAA10AB005	SHUT OFF DAMPER							SCANDFILTER			
-	DAMPER			-	-	500x500	FZV STEEL		ACTION AIR		
KA01	GAS SPRING			-	-			SMOKE SHIELD/SS501 SCANDFILTER			
-S11	LIMIT SWITCH			-	-			16-1-168-135-200-A1 SCANDFILTER	TELEMECANIQUE XCK-M110		
-Y01	SOLENOID VALVE			-	-			SCANDFILTER	ELOMEK GP 650		
SAA10AB010	SHUT OFF DAMPER							SCANDFILTER			
-	DAMPER			-	-	500x500	FZV STEEL		ACTION AIR		
KA01	GAS SPRING			-	-			SMOKE SHIELD/SS501 SCANDFILTER			
-S11	LIMIT SWITCH			-	-			16-1-168-135-200-A1 SCANDFILTER	TELEMECANIQUE XCK-M110		
-Y01	SOLENOID VALVE			-	-			SCANDFILTER	ELOMEK GP 650		
SAA10AN005	VENTILATION FAN							SCANDFILTER			
-KT01	FAN			-	-	Ø400	FZV STEEL		SCANDFILTER		0.8m³/s
-M01	MOTOR			-	-				AxS/Pag/400/MMH/4 BEVI		2870rpm
				-	-				ISSH9052		
SAA10AN010	VENTILATION FAN							SCANDFILTER			
-KT01	FAN			-	-	Ø400	FZV STEEL		SCANDFILTER		0.8m³/s
-M01	MOTOR			-	-	500x500			AxS/Pag/400/MMH/4 BEVI		2870rpm
				-	-				ISSH9052		
SAA10AT020	FILTER							SCANDFILTER	SCANDFILTER		
SAG10AA010	NON RETURN DAMPERS							SCANDFILTER			

Remark -	year-month-day	Title	Plant		Des					
			YAMAMA CEMENT	SA/SAG						
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG	9100	Archive	-	Lang.	E
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS		Doc. no	2046037			Sheet	55
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07							Tot.	72
Prepared by S.MALMLÖV	Rev	07.01.12								

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
-	-			-	-	800	-	-	-	-	-
SAG10AA015	NON RETURN DAMPERS			-	-	-	-	SCANDFILTER	SCANDFILTER	-	-
-	-			-	-	800	-	-	-	-	-
SAG10AB005	SHUT OFF DAMPER			-	-	-	-	SCANDFILTER	-	-	-
-	DAMPER			-	-	500x1000	FZV STEEL	SCANDFILTER	ACTION AIR	-	-
KA01	GAS SPRING			-	-	-	-	SMOKE SHIELD/SS501	-	-	-
-S11	LIMIT SWITCH			-	-	-	-	SCANDFILTER	TELEMECANIQUE	-	-
-Y01	SOLENOID VALVE			-	-	-	-	SCANDFILTER	XCK-M110	-	-
-	-			-	-	-	-	SCANDFILTER	ELOMEK	-	-
-	-			-	-	-	-	SCANDFILTER	GP 650	-	-
SAG10AB010	SHUT OFF DAMPER			-	-	-	-	SCANDFILTER	-	-	-
-	DAMPER			-	-	500x1000	FZV STEEL	-	ACTION AIR	-	-
KA01	GAS SPRING			-	-	-	-	SMOKE SHIELD/SS501	-	-	-
-S11	LIMIT SWITCH			-	-	-	-	SCANDFILTER	TELEMECANIQUE	-	-
-Y01	SOLENOID VALVE			-	-	-	-	SCANDFILTER	XCK-M110	-	-
-	-			-	-	-	-	SCANDFILTER	ELOMEK	-	-
-	-			-	-	-	-	SCANDFILTER	GP 650	-	-
SAG10AB020	SHUT OFF DAMPER			-	-	-	-	SCANDFILTER	-	-	-
-	DAMPER			-	-	500x500	FZV STEEL	-	ACTION AIR	-	-
KA01	GAS SPRING			-	-	-	-	SMOKE SHIELD/SS501	-	-	-
-S11	LIMIT SWITCH			-	-	-	-	SCANDFILTER	TELEMECANIQUE	-	-
-Y01	SOLENOID VALVE			-	-	-	-	SCANDFILTER	XCK-M110	-	-
-	-			-	-	-	-	SCANDFILTER	ELOMEK	-	-
-	-			-	-	-	-	SCANDFILTER	GP 650	-	-
SAG10AN005	VENTILATION FAN			-	-	-	-	SCANDFILTER	-	-	-
-	-			-	-	-	-	-	-	-	-

Remark -	year-month-day		Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	VENTILATION SYSTEM	YAMAMA CEMENT	SA/SAG
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	GAS TURBINE ROOM	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AND AUXILIARY ROOM	HG 9100	Doc. no
Prepared by S.MALMLÖV	Rev	07.01.12	AGGREGATE LIST	2046037	
				Lang.	E
				Sheet	56
				Tot.	72

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
-KT01	FAN	-	-	-	-	Ø710	FZV STEEL	SCANDFILTER	SCANDFILTER	-	9.3m³/s
-M01	MOTOR	-	-	-	-	-	-	SCANDFILTER	AXL/AL/800/PFJ/4/SPEX CEMP E180M2	-	2955rpm
SAG10AN010	VENTILATION FAN							SCANDFILTER			-
-KT01	FAN	-	-	-	-	Ø710	FZV STEEL	SCANDFILTER	SCANDFILTER	-	9.3m³/s
-M01	MOTOR	-	-	-	-	-	-	SCANDFILTER	AXL/AL/800/PFJ/4/SPEX CEMP E180M2	-	2955rpm
SAG10AT005	WEATHER LOUVER							SCANDFILTER	SCANDFILTER		HORIZONTAL
-	-	-	-	-	-	-	FZV STEEL	YG	-	-	-
SAG10AT015	FILTER							SCANDFILTER	SCANDFILTER		-
-	-	-	-	-	-	1/1 MODULE	PP	NOVO F5	050.7700.200	-	-
-	-	-	-	-	-	592x592x635	-	-	-	-	-
SAG10AT040	WEATHER LOUVER							SCANDFILTER	SCANDFILTER		HORIZONTAL
-	-	-	-	-	-	-	FZV STEEL	YG	-	-	-
SAG10BS005	SILENCER							SCANDFILTER	SCANDFILTER		-
-	-	-	-	-	-	-	FZV STEEL	BAFFLE SILENCER	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SAG10BS010	SILENCER							SCANDFILTER	SCANDFILTER		-
-	-	-	-	-	-	-	FZV STEEL	BAFFLE SILENCER	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SAG10BS020	SILENCER							SCANDFILTER	SCANDFILTER		-
-	-	-	-	-	-	-	FZV STEEL	BATTLE SILENCER	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Remark	- Based on Doc no / revision	year-month-day	Title	Plant	Des
Checked by	Göran Andersson	05.03.04	GPML	Order no	B4516
Appr. by	Fredrik Andersson	05.09.07	d	HG	9100
Prepared by	S.MALMLÖV	07.01.12	AGGREGATE LIST	Doc. no	2046037
				Archive	-
				Lang.	E
				Sheet	57
				Tot.	72

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
SAC10AC005	COOLER							HIAK	AIR BLUE 2510 15T3R760 2.1 4NC	-	-
SAC10AC010	CONDENSER							HIAK	AIR BLUE 2510 24T3R825 2.5 4NC	-	-
SAC10AH005	AIR CONDITIONING UNIT							HIAK	BITZER LH104/4DC-7.2	150	INCL. COOLER FAN AND COMPRESSOR
SAC10AN005	COOLER FAN							HIAK	ACSON RCM61C	-	THERMOSTAT SAC10CT005 PART OF COMPONENT
SAC10AN010	COMPRESSOR							HIAK	AIR BLUE COMPRESSOR ZR40K3E-TFD-522	-	380-420/50x460/60
SAC10AN015	COMPRESSOR							HIAK	AIR BLUE FAN MOTOR FE050-6EA-AF1	-	-
SAC10AN025	BATTERY ROOM FAN, CIRCULAR							HIAK	CA ÖSTBERG CK125C	-	-
SAC10AT010	FILTER							HIAK EU3	- 1CS32159-5	-	-
SAC20AC005	COOLER							HIAK	AIR BLUE 2510 15T3R760 2.1 4NC	-	-

Remark -	year-month-day		Title		Plant	Des
Based on Doc no / revision	Orig	03.11.12	VENTILATION SYSTEM		YAMAMA CEMENT	SAC
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	CONTROL ROOM		Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST		HG 9100	Lang. E
Prepared by S.MALMLÖV	Rev	07.01.12			Doc. no	Sheet 58
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
SAC20AC010	CONDENSER							HIAK	AIR BLUE 2510 24T3R825 2.5 4NC	-	-
SAC20AH005	AIR CONDITIONING UNIT							HIAK	BITZER LH104/4DC-7.2	150	INCL. COOLER FAN AND COMPRESSOR
SAC20AN005	COOLER FAN							HIAK	ACSON RCM61C	-	THERMOSTAT SAC20CT005 PART OF COMPONENT
SAC20AN010	COMPRESSOR							HIAK	AIR BLUE COMPRESSOR ZR40K3E-TFD-522	-	380-420/50x460/60
SAC20AN015	COMPRESSOR							HIAK	AIR BLUE FAN MOTOR FE050-6EA.AF1	-	-
SAC20AN025	BATTERY ROOM FAN							HIAK	CA ÖSTBERG KVFU 125C	-	-
SAC20AT005	FILTER							HIAK	AIR BLUE	-	Man. code: AIR FILTER (777x293x8) DWALL 25-30-35 G3 FILTERCLASS
								-	See remark	-	-

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Remark -	year-month-day	Title	Plant		Des					
			YAMAMA CEMENT	SAC						
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG	9100	Archive	-	Lang.	E
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS		Doc. no	2046037			Sheet	59
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07							Tot.	72
Prepared by S.MALMLÖV	Rev	07.01.12								

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
SAE30AA005	NON RETURN DAMPER								SCANDFILTER	-	-
-	-								-	-	-
-	-								-	-	-
SAE30AT050	WEATHER LOUVER							SCANDFILTER YG	SCANDFILTER	-	-
-	-						SS2343		-	-	-
-	-								-	-	-
SAE30BS015	SILENCER							SCANDFILTER BAFFLE SILENCER	SCANDFILTER	-	-
-	INLET SILENCER						FZV-STEEL		-	-	-
-	-								-	-	-
SAE30BS020	SILENCER							SCANDFILTER BAFFLE SILENCER	SCANDFILTER	-	-
-	INLET SILENCER						FZV-STEEL		-	-	-
-	-								-	-	-
SAE30BS025	SILENCER							SCANDFILTER BAFFLE SILENCER	SCANDFILTER	-	-
-	OUTLET SILENCER						FZV-STEEL		-	-	-
-	-								-	-	-
SAE40AA005	PURGE VALVE COMPRESSED AIR								DONALDSON	-	-
-	-				1"		BRASS-NICKLED		-	-	-
-	-								-	-	-
SAE40AA010	SOLENOID VALVE	14	80					DONALDSON GT06-7588	BUSCHJOST	-	12 UNITS
-	KA01				45"		ALU-ALLOY		-	-	-
-	-								-	-	-
-	-Y01								-	-	-
-	SOLENOID VALVE								-	-	-
SAE40AN005	JET PULSE FILTER							DONALDSON	LERROY-SOMER 25-90S AIR VISION	-	0,75 KW
-	FAN								-	-	-
-	-								-	-	-
SAE40AT035	WEATHER LOUVER AMBIENT AIR							DONALDSON	DONALDSON	-	-
-	-								-	-	-

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Remark	-	year-month-day	Title	Plant		Des
				YAMAMA CEMENT	SAE	
Based on Doc no / revision	Orig	03.11.12	VENTILATION SYSTEM	Order no	B4516	Archive -
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	EL GENERATOR	HG	9100	-
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07	AGGREGATE LIST	Doc. no	2046037	Lang. E
Prepared by S.MALMLÖV	Rev	07.01.12				Sheet 60
						Tot. 72

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
SAE40AT045	JET PULSE FILTER							DONALDSON	DONALDSON P19-1280	-	24 ELEMENTS
-	AMBIENT AIR FILTER							-	-	-	-
-	AIR RECEIVER / MANIFOLD COMPRESSED AIR							DONALDSON 3EA-AD1418485	-	-	-

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Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	03.11.12	VENTILATION SYSTEM	YAMAMA CEMENT	SAE
Checked by Göran Andersson 2005-10-26	05.03.04	EL GENERATOR	Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	05.09.07	AGGREGATE LIST	SIEMENS	Doc. no 2046037
Prepared by S.MALMLÖV	07.01.12			Lang. E
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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
SDB10AA005	NON RETURN VALVE	30	240					GTE	CROMAX DN15	-	
KA01	-			-	DN15 DN15	-	S.S.	P/N 20065	-	0.5	-
SDB10AA010	NON RETURN VALVE	30	240					GTE	CROMAX DN15	-	
KA01	-			-	DN15 DN15	-	S.S.	P/N 20065	-	0.5	-
SDB10AA015	DRAIN VALVE	20	100					GTE	AL15	-	
KA01	-			-	DN15 DN15	-	BRASS	P/N 20137	AL15	0.5	-
SDB10AA020	DRAIN VALVE	20	100					GTE	AL15	-	
KA01	-			-	DN15 DN15	-	BRASS	P/N 20137	AL15	0.5	-
SDB10AA025	SOLENOID VALVE	20	100					GTE	ASCO	-	
KA01	VALVE			-	DN20 DN20	-	BRASS	P/N 20132	TYPE SCE2100095V	0.9	-
-Y01	SOLENOID			-	-	-	-	-	-	-	-
SDB10AA030	SOLENOID VALVE	20	100					GTE	ASCO	-	
KA01	VALVE			-	DN20 DN20	-	BRASS	P/N 20132	TYPE SCE2100095V	0.9	-
-Y01	SOLENOID			-	-	-	-	-	-	-	-
SDB10AA050	QUICK COUPLING	200	100					GTE	SUTTNER	-	
KA01	QUICK COUPLING			-	-	-	CHROME/BRASS	GTE	TEMA 2520VUV	-	-
SDB10AA205	PRESSURE RELIEF VALVE	200	100					GTE	SUTTNER	-	
KA01	-			-	DN10	-	BRASS	P/N 20038	-	1	-
SDB10AH005	TANK HEATER	ATM	60					GTE	BACKER	-	3.0 KW
				-	-	-	-	P/N 20133	-	-	-

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Remark	Doc no / revision	year-month-day	Title	Plant		Des
				YAMAMA CEMENT	SDB	
Based on	03.11.12	03.11.12	COMPRESSOR WASHING SYSTEM	Order no	B4516	HG 9100
Checked by	05.03.04	05.03.04	COMPRESSOR WASHING SYSTEM	Doc. no	2046037	Archive -
Appr. by	05.09.07	05.09.07	COMPRESSOR WASHING SYSTEM	Lang.	E	Sheet
Prepared by	07.01.12	07.01.12	AGGREGATE LIST	Tot.	62	72



KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
-R01	ELECTRICAL				DN50		BRASS			1	
SDB10AH010	TANK HEATER	ATM	60					GTE P/N 20133	BACKER		3.0 kW
-R01	ELECTRICAL				DN50		BRASS			1	
SDB10AH015	FROST GUARD							GTE P/N 20205			
-R01	ELECTRICAL						S.S./PLASTIC				
SDB10AP005	COMPRESSOR CLEANING PUMP	100	60								
KP01	PUMP				DN15 DN10		BRASS	GTE P/N 20396	INTERPUMP WS82	14kg	21L/min
-M01	AC MOTOR						ALUMINIUM	GTE P/N 20393	BROOK HANSEN	27kg	3.0kW
IMK01	FLEXIBLE COUPLING/FLANGE						ALUMINIUM	GTE P/N20394/20395	INTERPUMP	1,4kg	
SDB10AT005	FILTER	ATM	60					GTE P/N 20095	AXEL LARSSON AL-87		
KT01					DN15 DN15		BRASS			0.5	500µm
SDB10BB005	TANK LEFT	ATM	60					GTE P/N 20134	GTE		80 L
KD01							S.S.				
SDB10BB010	TANK RIGHT	ATM	60					GTE P/N 20131	GTE		80 L
KD01							S.S.				
SDB25AA005	PURGE AIR VALVE										
KA01	BALL VALVE					THREADED	S.S. 2033 329-1	SAPA	PARKER-HANNIFIN		
SDB25AA010	CHECK VALVE	200	100		3/4"						
KA01	QUICK COUPLING						CHROME/BRASS	SAPA	TEMA 2510		
Remark -					year-month-day	Title			Plant	Des	
Based on Doc no / revision		Orig			03.11.12				YAMAMA CEMENT	SDB	
Checked by Göran Andersson 2005-10-26	Resp. dept.	Rev	GPML		05.03.04				Order no B4516	HG 9100	Archive -
Appr. by Fredrik Andersson 2005-10-26	Latest rev.	Rev	d		05.09.07					Doc. no	
Prepared by S.MALMLÖV		Rev			07.01.12						2046037
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AGGREGATE LIST

COMPRESSOR WASHING SYSTEM

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
SDB30AT010	FILTER	350	-					GTE	-	-	-
-	-	-	-	-	-	-	-	P/N 20193 (incl.brackets)	-	-	-
KT01	-	-	-	DN20	DN20	-	-	-	AXEL LARSSON AL87	-	(P/N 20180 only filter)
SDB30BP005	TEE NOZZLE							GTE	-	-	-
-	-	-	-	1/4"	1/4"	Ø12	S.S.	20257 TEE	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SDB30BP010	TEE NOZZLE							GTE	-	-	-
-	-	-	-	1/4"	1/4"	Ø12	S.S.	20257 TEE	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SDB30BP015	ELBOW NOZZLE							GTE	-	-	-
-	-	-	-	1/4"	1/4"	Ø12	S.S.	20257 ELBOW	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SDB30BP020	ELBOW NOZZLE							GTE	-	-	-
-	-	-	-	1/4"	1/4"	Ø12	S.S.	20257 ELBOW	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SDB50AA205	NON RETURN VALVE	1	80					-	-	1.5	-
-	-	-	-	-	-	-	-	-	-	-	-
KA01	CHECK VALVE					G1		SAPA	CROMAX	-	-
-	-	-	-	-	-	-	2034 489-1	-	-	-	-
SDB50AA210	DRAIN VALVE	8	235					-	-	1.0	-
-	-	-	-	PN16	DN15	ISOG 1/2"		SAPA	AXEL LARSSON	-	-
KA01	BALL VALVE							-	AL31 SS 126 SSR	-	-
-	-	-	-	-	-	-	2026 249-6	-	-	1.0	-
SDB50AA215	DRAIN VALVE	8	235					-	-	1.0	-
-	-	-	-	PN16	DN15	ISOG 1/2"		SAPA	AXEL LARSSON	-	-
KA01	BALL VALVE							-	AL31 SS 126 SSR	-	-
-	-	-	-	-	-	-	2026 249-6	-	-	1.3	-
SDB50AA220	DRAIN VALVE	14	400					-	-	1.3	-
-	-	-	-	PN16	DN15	ISOG 1/2"		SAPA	AXEL LARSSON	-	-
KA01	BALL VALVE							-	AL31 SS 126 SSR	-	-
-	-	-	-	-	-	-	2024 245-5	-	-	1.0	-
SDB50AA225	DRAIN VALVE	8	235					-	-	1.0	-
-	-	-	-	-	-	-	-	-	-	-	-

Remark	-	year-month-day	Title		Plant	Des	
			Orig	Rev			
Based on Doc no / revision		03.11.12	COMPRESSOR WASHING SYSTEM		YAMAMA CEMENT	SDB	
Checked by	Göran Andersson	05.03.04	Resp. dept.	GPML	Order no	B4516	
Appr. by	Fredrik Andersson	05.09.07	Latest rev.	d	HG	9100	
Prepared by	S.MALMLÖV	07.01.12	Rev		Doc. no	2046037	
						Archive	-
						Lang.	E
						Sheet	64
						Tot.	72

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	BALL VALVE			PN16	DN15	ISOG ½"	SS 2343 2026 249-6	SAPA	AXEL LARSSON AL31 126 SSR	-	-
SDB50AA230	DRAIN VALVE	1	200							10	
KA01	BALL VALVE				DN50	WELDING END	SS 2343 2024 245-6	SAPA	AXEL LARSSON AL33 SS 116 GGG	-	-
SDB60AA205	VALVE										
SDB60BB005	DRAINAGE TANK	1,5	80						SONSTORP	-	580 liters (2 offline washes)
				PN40	DN50	WELDING FLANGE	SS2343			-	-
							2034 965			-	-

Remark -	year-month-day		Title		Plant	Des
Based on Doc no / revision	Orig	03.11.12		YAMAMA CEMENT		SDB
Checked by Göran Andersson 2005-10-26	Rev	05.03.04		Order no	B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07		HG	9100	Lang. E
Prepared by S.MALMLÖV	Rev	07.01.12		Doc. no	2046037	Sheet 65
						Tot. 72



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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
SGJ10AA001	RELEASE VALVE										
-	CO2										
KA01	Valve	-	12	12	12	W28,8x1/14"	Brass	Minimax	VTI/Schmöle	0,68	M3-02-03/3+4 M8-3-02-03/3
-		-	-	-	-	W21,8x1/14"	-	829759	K 85-20.0-S9	1,43	M3-02-20/1
-Y01	Solenoid valve	-	-	-	-	-	-	Minimax	Binder		M3-02-20/1 M8-3-02-20/1
-		-	-	-	-	-	-	885738	EM VM 24V DC		
SGJ10AA003	RETARDING DEVICE	225	55							5,5	Unit time delay 30 sec.
-	CO2						Al-alloy				
MS01	Pneumatic actuator	-	-	-	-	-	-	Minimax	-	-	M3-8-1
-		-	-	-	-	-	-	227303	D25-H30		
MS02	Release cylinder	-	Ø10	-	-	-	-	MINIMAX	MINIMAX	5,0	M3-02-06/1 M8-3-02-06/1
-		-	-	-	-	-	-	847199	MX-BV-D55-H106		
MU01	Time delay	-	-	-	-	-	-	Minimax	Minimax	-	M3-02-07/1
-		-	-	-	-	-	-	229660	VZ 2		M8-3-02-07/1
SGJ10AA004	BLOCKING DEVICE										
-		-	-	-	-	-	-	-	-	-	-
MU01	Blocking device	-	-	-	-	-	Galv. steel	Minimax	-	1.4	M3-02-07/3 M8-3-02-07/3
-		-	-	-	-	-	-	762610	-		
-S11	LIMIT SWITCH	-	-	-	-	PG 13.5	Glassfiber	Minimax	BERNSTEIN	0.16	-
-		-	-	-	-	-	-	885137	GC-SU1 HLIW		
SGJ10AA005	BOTTLE VALVE							MINIMAX	VTI/Schmöle	0,68	M3-02-03/3+4 M8-3-02-03/3
-	CO2							668457	K 85-11.0-S19		
KA01	Globe Valve	-	12	12	12	W28, 8*1/14"	BRASS	-	-	-	-
-		-	-	-	-	W21, 8*1/14"	-	-	-	-	-
SGJ10AA006	CHECK VALVE							MINIMAX	KRV	0,29	M3-02-01/4
-	CO2							873930			
KA01	CHECK VALVE	-	12	12	12	G ¾"	BRASS	-	-	-	-
-		-	-	-	-	R ¾"	-	-	-	-	-
SGJ10AA010	BOTTLE VALVE							MINIMAX	VTI/Schmöle	0,68	M3-02-01/4
-	CO2							668457	K 85-11.0-S19		
KA01	Globe Valve	-	12	12	12	W28, 8*1/14"	BRASS	-	-	-	-
-		-	-	-	-	W21, 8*1/14"	-	-	-	-	-
SGJ10AA011	CHECK VALVE							MINIMAX	KRV	0,29	M3-02-01/4
-	CO2							873930			

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Remark -		year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	FIRE EXTINGUISHING SYSTEM CO2	YAMAMA CEMENT	SGJ
Checked by Göran Andersson 2005-10-26	Rev	05.03.04		Order no B4516	Archive -
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07		HG 9100	Lang. E
Prepared by S.MALMLÖV	Rev	07.01.12	AGGREGATE LIST	Doc. no	Sheet 66
				2046037	Tot. 72

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	CHECK VALVE	-	-	-	12	12	G ¾" R ¾"	BRASS	-	-	-
SGJ10AA015	BOTTLE VALVE							MINIMAX	VTI/Schmöle	0,68	M3-02-01/4
KA01	Globe Valve	-	-	-	12	12	W28, 8*1/4" W21, 8*1/4"	BRASS	668457	-	-
SGJ10AA016	CHECK VALVE							MINIMAX	KRV	0,29	M3-02-01/4
KA01	Globe Valve	-	-	-	12	12	G ¾" R ¾"	BRASS	873930	-	-
SGJ10AA020	BOTTLE VALVE							MINIMAX	VTI/Schmöle	0,68	-
KA01	Globe Valve	-	-	-	12	12	W28, 8*1/4" W21, 8*1/4"	BRASS	668457	-	M3-02-06/1 M8-3-02-06/1
SGJ10AA021	CHECK VALVE							MINIMAX	KRV	0,29	-
KA01	Globe Valve	-	-	-	12	12	G ¾" R ¾"	BRASS	873930	-	M3-02-06/1 M8-3-02-06/1
SGJ10AA025	BOTTLE VALVE							MINIMAX	VTI/Schmöle	0,68	-
KA01	Globe Valve	-	-	-	12	12	W28, 8*1/4" W21, 8*1/4"	BRASS	668457	-	M3-02-06/1 M8-3-02-06/1
SGJ10AA026	CHECK VALVE							MINIMAX	KRV	0,29	-
KA01	Globe Valve	-	-	-	12	12	G ¾" R ¾"	BRASS	873930	-	M3-02-06/1 M8-3-02-06/1
SGJ10AA301	TEST VALVE							MINIMAX	-	-	-
KA01	Globe Valve	-	-	-	4	4	Pipe coupling 6mm	Steel	Minimax	-	M3-06-03/1 M8-3-06-03/1
MR01	TEST CONNECTION	-	-	-	-	-	Pipe coupling 6mm	13 1406	Minimax	-	M3-4-1/4
SGJ10AA505	BOTTLE VALVE							MINIMAX	VTI/Schmöle	0,68	-
KA01	Globe Valve	-	-	-	12	12	W28, 8*1/4" W21, 8*1/4"	BRASS	668457	-	-

Remark	Doc no / revision	Resp. dept.	Latest rev.	year-month-day	Title	Plant	Des
Based on	03.11.12	03.11.12	03.11.12	03.11.12	FIRE EXTINGUISHING SYSTEM CO2	YAMAMA CEMENT	SGJ
Checked by	Göran Andersson	GPML	GPML	05.03.04		Order no	Archive
Appr. by	Fredrik Andersson	d	d	05.09.07		B4516	-
Prepared by	S.MALMLÖV			07.01.12	AGGREGATE LIST	HG 9100	-
						Doc. no	-
						2046037	
						Lang.	67
						Sheet	72

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	Globe Valve	-	-	-	12	W28, 8*1/4" W21, 8*1/4"	BRASS	-	-	-	-
SGJ10AA506	CHECK VALVE CO2	-	-	-	-	-	-	MINIMAX 873930	KRV	0,29	-
KA01	CHECK VALVE	-	-	-	12	G 3/4" R 3/4"	BRASS	-	-	-	-
SGJ10AA510	BOTTLE VALVE CO2	-	-	-	-	-	-	MINIMAX 668457	VTI/Schmöle K 85-11.0-S19	0,68	-
KA01	Globe Valve	-	-	-	12	W28, 8*1/4" W21, 8*1/4"	BRASS	-	-	-	-
SGJ10AA511	CHECK VALVE CO2	-	-	-	-	-	-	MINIMAX 873930	KRV	0,29	-
KA01	CHECK VALVE	-	-	-	12	G 3/4" R 3/4"	BRASS	-	-	-	-
SGJ10AH005	HEATER	-	-	-	-	-	-	MINIMAX	-	-	From -15°C to 0°C
-R01	HEATER	-	-	-	-	-	-	MINIMAX	STIEBEL ELTRON CK20S EURO	-	-
SGJ10AN005	FAN ATM	-	-	-	-	-	-	MINIMAX	-	2,7	-
-KN01	FAN	-	-	-	-	-	-	MINIMAX	MAICO EZQ204E	-	-
SGJ10BB001	PILOT CO2-BOTTLE	-	-	-	-	-	-	MINIMAX 885250	-	11,6	-
KD01	Bottle	-	-	-	-	-	C-steel	-	Apoldaer Stahlfl.	3,6	5,4 l
SGJ10BB005	CO2-BOTTLE CO2	-	-	-	-	-	-	MINIMAX	-	74	-
KD01	Bottle	-	-	15	-	-	Steel EG-32	Minimax	Apoldaer Stahlfl.	45	67.5l M3-02-03/2
SGJ10BB010	CO2-BOTTLE CO2	-	-	-	-	-	-	MINIMAX	-	74	-
KD01	Bottle	-	-	15	-	-	Steel EG-32	Minimax	Apoldaer Stahlfl.	45	67.5l M3-02-03/2
SGJ10BB015	CO2-BOTTLE CO2	-	-	-	-	-	-	MINIMAX	-	74	-

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Remark -	year-month-day	Title	Plant		Des			
			YAMAMA CEMENT	SGJ				
Based on Doc no / revision	03.11.12	FIRE EXTINGUISHING SYSTEM CO2	Order no	B4516	HG	9100	Doc. no	2046037
Checked by Göran Andersson 2005-10-26	05.03.04	GPML	SIEMENS		Archive	-	Lang.	E
Appr. by Fredrik Andersson 2005-10-26	05.09.07	d			Sheet	68	Tot.	72
Prepared by S.MALMLÖV	07.01.12	AGGREGATE LIST						

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KD01	Bottle	-	-	15	-	Steel EG-32	Minimax	Apoldaer Stahlfl.	-	45	67.5l M3-02-03/2
-	-	-	-	-	-	W28, 8*1/14"	762931	-	-	-	-
SGJ10BB020	CO2-BOTTLE						MINIMAX			74	
-	CO2 Bottle	-	-	15	-	Steel EG-32	Minimax	Apoldaer Stahlfl.	-	45	67.5l M3-02-03/2
KD01	Bottle	-	-	-	-	W28, 8*1/14"	762931	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SGJ10BB025	CO2-BOTTLE						MINIMAX			74	
-	CO2 Bottle	-	-	15	-	Steel EG-32	Minimax	Apoldaer Stahlfl.	-	45	67.5l M3-02-03/2
KD01	Bottle	-	-	-	-	W28, 8*1/14"	762931	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SGJ10BB505	CO2-BOTTLE						MINIMAX			74	
-	CO2 Bottle	-	-	15	-	Steel EG-32	Minimax	Apoldaer Stahlfl.	-	45	67.5 l
KD01	Bottle	-	-	-	-	W28, 8*1/14"	762931	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SGJ10BB510	CO2-BOTTLE						MINIMAX			74	
-	CO2 Bottle	-	-	15	-	Steel EG-32	Minimax	Apoldaer Stahlfl.	-	45	67.5 l
KD01	Bottle	-	-	-	-	W28, 8*1/14"	762931	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SGJ10BP005	NOZZLE	80	150				Minimax			-	-
-	CO2 Nozzle	-	-	-	-	R 1/2"x6.6	186077	-	-	-	M3-1-5/1
KA01	Nozzle	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SGJ10BP010	NOZZLE	80	150				Minimax			-	-
-	CO2 Nozzle	-	-	-	-	R 1/2"x6.6	186077	-	-	-	M3-1-5/1
KA01	Nozzle	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SGJ10BP015	NOZZLE	80	150				Minimax			-	-
-	CO2 Nozzle	-	-	-	-	R 1/2"x7.4	186077	-	-	-	M3-1-5/1
KA01	Nozzle	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SGJ10BP020	NOZZLE	80	150				Minimax			-	-
-	CO2 Nozzle	-	-	-	-	R 1/2"x7.4	186077	-	-	-	M3-1-5/1
KA01	Nozzle	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
SGJ10BP505	NOZZLE	ATM	65				Minimax			-	-
-	CO2	-	-	-	-	-	186053	-	-	-	-

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Remark	year-month-day	Title	Plant		Des			
			YAMAMA CEMENT	SGJ				
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG	9100	Lang.	E
Checked by Göran Andersson 2005-10-26	Rev	05.03.04	SIEMENS		Doc. no	2046037	Sheet	69
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07					Tot.	72
Prepared by S.MALMLÖV	Rev	07.01.12						

KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
KA01	Nozzle			-	-	R 1/2"	Brass	-	-	-	-
SGJ10BP510	NOZZLE CO2	ATM	65	-	-	-	-	Minimax 186053	-	-	-
KA01	Nozzle			-	-	R 1/2"	Brass	-	-	-	-
SGJ10EA001	MANUAL RELEASE PUSH BUTTON		55	-	-	-	-	-	-	0,9	IP66
-P01	Push button			-	-	PG16	Vestamin X4661	Minimax	VERSHOVEN C21	-	VdS G 295025
SGJ10EA002	MANUAL RELEASE PUSH BUTTON		55	-	-	-	-	-	-	0,9	IP66
-P01	Push button			-	-	PG16	Vestamin X4661	Minimax	VERSHOVEN C21	-	VdS G 295025
SGJ10EA003	MANUAL RELEASE PUSH BUTTON		55	-	-	-	-	-	-	0,9	IP66
-P01	Push button			-	-	PG16	Vestamin X4661	Minimax	VERSHOVEN C21	-	VdS G 295025
SGJ10EA504	MANUAL RELEASE PUSH BUTTON		55	-	-	-	-	-	-	0,9	IP66
-P01	Push button			-	-	PG16	Vestamin X4661	Minimax	VERSHOVEN C21	-	VdS G 295025
SGJ10EG001	STATUS LIGHT		55	-	-	-	-	Minimax	-	-	EEx edu IIC T6 IP66
-H01	GREEN LAMP: CO2- BLOCKED			-	-	PG13,5	Polyester	-	Bartec	-	-
-H02	RED LAMP: CO2 RELEASED			-	-	-	-	-	07-3512-10 LGG LRR BARTEC	-	-
SGJ10EG002	STATUS LIGHT		55	-	-	-	-	Minimax	-	-	EEx edu IIC T6 IP66
-H01	GREEN LAMP: CO2 BLOCKED			-	-	PG13,5	Polyester	-	Bartec	-	-
-				-	-	-	-	-	07-3512-10 LGG LRR	-	-

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Remark	-	year-month-day		Title	Plant	Des	
		Orig	Rev				
FIRE EXTINGUISHING SYSTEM CO2							
Based on Doc no / revision		03.11.12			YAMAMA CEMENT	SGJ	
Checked by Göran Andersson 2005-10-26		Rev	05.03.04		Order no B4516	HG 9100	
Appr. by Fredrik Andersson 2005-10-26		Rev	05.09.07		Doc. no	Archive -	
Prepared by S.MALMLÖV		Rev	07.01.12		2046037		
						Lang.	E
						Sheet	70
						Tot.	72



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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
-H02	RED LAMP: CO2 RELEASED								BARTEC		
SGJ10EG003	STATUS LIGHT	55						Minimax	07-3512-10 LGG LRR		EEx edu IIC T6 IP66
-H01	GREEN LAMP: CO2 BLOCKED					PG13,5	Polyester		Bartec		
-H02	RED LAMP: CO2 RELEASED								07-3512-10 LGG LRR BARTEC		
SGJ10EG010	WARNING LIGHT FLASHING RED								07-3512-10 LGG LRR		FIRE ALARM
-P01	WARNING LIGHT					PG11	Cast aluminium	Minimax BLK 40 D	Fernsig 224 13202	0.7	
SGJ10EG015	WARNING LIGHT FLASHING RED										FIRE ALARM
-P01	Warning light					PG11	Cast aluminium	Minimax BLK 40 D	Fernsig 224 13202	0.7	
SGJ10EG504	STATUS LIGHT	55						Minimax			EEx edu IIC T6 IP66
-H01	GREEN LAMP: CO2 BLOCKED					PG13,5	Polyester		Bartec		
-H02	RED LAMP: CO2 RELEASED								07-3512-10 LGG LRR BARTEC		
SGJ10EJ005	GT-ENCLOSURE ELECTRICAL SIREN	60									
-H01	Siren					M20x1,5	Alu-die cast, red	Minimax 900876	BE:XS MX	3.4	KEMA99 ATEX 6312
SGJ10EJ010	INDOOR SIREN CO2	120 300									
QH01	Siren					6x1	Stainless steel/bras	Minimax		1,15	M3-10-4/1 M8-3-10-4+1

Remark -	year-month-day		Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	FIRE EXTINGUISHING SYSTEM CO2	YAMAMA CEMENT	SGJ
Checked by Göran Andersson 2005-10-26	Rev	05.03.04		Order no B4516	HG 9100
Appr. by Fredrik Andersson 2005-10-26	Rev	05.09.07		Doc. no	
Prepared by S.MALMLÖV	Rev	07.01.12	AGGREGATE LIST	2046037	
				Archive -	Lang. E
					Sheet 71
					Tot. 72

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KKS DES. CUSTOMER DES.	DESCRIPTION MEDIUM	DESIGN DATA		PR CL PN PR CL lbs	DN in./outl. NPS in./outl.	END CONN. inlet outlet	BODY MTRL PURCH. DRAW.	SUPPLIER SUPPLIER CODE	MANUFACTURER MANUFACTURER CODE	WEIGHT (kg)	REMARK
		bar(g)	C								
SGJ10EJ505	AUX. ENCLOSURE ELECTRICAL SIREN	-	65	-	-	-	-	-	-	-	-
-H01	Siren	-	-	-	M20x1.5	cast aluminium	Minimax 801175	DS10 MX24V/DC	-	2.1	-
SGJ10EJ510	INDOOR SIREN	120	300	-	-	-	-	-	-	-	-
-	CO2	-	-	-	6x1	Stainless steel/bras	Minimax	-	-	1,15	M3-10-4/1 M8-3-10-4+1
QH01	Siren	-	-	-	-	-	860050	-	-	-	-

This document is issued in Pulse.

Remark -	year-month-day	Title	Plant		Des			
			YAMAMA CEMENT	SGJ				
Based on Doc no / revision	Orig	03.11.12	Order no	B4516	HG 9100	Archive -	Lang.	E
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Prepared by S.MALMLÖV	Rev	07.01.12						