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KKS DES.	DESCRIPTION	SHUT DOWN	START UP	OPERATION	OPER PLACE	REMARK VALVE BASE POSITION
<b>MBH20AA010 SHUT OFF VALVE</b>						
KA01	BALL VALVE	C	A*	A*	A	C *) Open when using liquid fuel Close when using gas fuel.
MS01	ACTUATOR					
-S11	LIMIT SWITCH	-	-	-	-	-
-S21	LIMIT SWITCH	-	-	-	-	-
-Y01	SOLENOID VALVE	C	A*	A*	A	C *) Open when using liquid fuel Close when using gas fuel.
<b>MBH20AA015 SHUT OFF VALVE</b>						
KA01	BALL VALVE	C	A*	A*	A	C *) Open when using liquid fuel Close when using gas fuel.
MS01	ACTUATOR					
-S11	LIMIT SWITCH	-	-	-	-	-
-S21	LIMIT SWITCH	-	-	-	-	-
-Y01	SOLENOID VALVE	C	A*	A*	A	C *) Open when using liquid fuel Close when using gas fuel.
<b>MBH20AA020 SHUT OFF VALVE</b>						
KA01	BALL VALVE	C	A*	A*	A	C *) Open when using liquid fuel Close when using gas fuel.
MS01	ACTUATOR					
-S11	LIMIT SWITCH	-	-	-	-	-
-S21	LIMIT SWITCH	-	-	-	-	-
-Y01	SOLENOID VALVE	C	A*	A*	A	C *) Open when using liquid fuel Close when using gas fuel.
<b>MBH20AA215 VENTILATION VALVE</b>						
KA01	BALL VALVE	O	C	C	A	O
MS01	ACTUATOR					
-S21	LIMIT SWITCH	-	-	-	-	-
-Y01	SOLENOID VALVE	C	O	O	A	C
<b>MBH20AA230 ROOT VALVE</b>						
KA01	BALL VALVE	O	O	O	L	O
<b>MBL20AA005 SHUT OFF VALVE</b>						
KA01	SHUT OFF VALVE	O	O	O	L	O
<b>MBL20AA010 PRESSURE REGULATOR</b>						
KA01	PRESSURE REGULATOR	O	O	O	-	O
KT01	COMPRESSED AIR FILTER					
P01	PRESSURE GAUGE					
<b>MBL20AA015 SAFETY VALVE</b>						
KA01	SAFETY VALVE	C	C	C	-	C
<b>MBL21AA010 PURGE AIR VALVE</b>						
-Y01	SOLENOID VALVE	A	A	A	A	C
<b>MBL22AA010 PURGE AIR VALVE</b>						
-Y01	SOLENOID VALVE	A	A	A	A	C
<b>MBL23AA010 PURGE AIR VALVE</b>						
-Y01	SOLENOID VALVE	A	A	A	A	C
<b>MBL24AA010 PURGE AIR VALVE</b>						
-Y01	SOLENOID VALVE	A	A	A	A	C
<b>MBM10AA005 BYPASS VALVE</b>						
-B01	POSITIONER					
KA01	BUTTERFLY VALVE	C	C	A	A	-
KA02	BUTTERFLY VALVE	C	C	A	A	-
KA03	BUTTERFLY VALVE	C	C	A	A	-
KA04	BUTTERFLY VALVE	C	C	A	A	-
KA05	BUTTERFLY VALVE	C	C	A	A	-
KA06	BUTTERFLY VALVE	C	C	A	A	-
-M01	MOTOR ACTUATOR					

Remark	<b>B4516, B4518, B925-927, B4555-4558</b>		year-month-day	Plant		Des	
Based on Doc no / revision	Orig.	<b>04.10.21</b>	<b>YAMAMA CEMENT</b>		<b>MBM</b>		
Title	Rev	<b>06.08.16</b>	Appr. by	Nicklas Söderholm	Resp. dept.	<b>GPML</b>	HG <b>9100</b>
	Rev	-	Prepared by	<b>A-L.SWARTZ</b>	Order no	<b>B4516</b>	Archive -
	Rev	-	Checked by	Göran Andersson	Latest rev.	<b>a</b>	Lang. -
<b>COMBUSTION CHAMBER SYSTEM</b>		<b>SIEMENS</b>		Doc. no	<b>2046041</b>		Sheet <b>1</b>
<b>BASE POSITION LIST</b>						Tot.	<b>11</b>

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KKS DES.	DESCRIPTION	SHUT DOWN	START UP	OPERATION	OPER PLACE	REMARK VALVE BASE POSITION
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
<b>MBN10AA005</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	O	O	A	Safe closed
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	O	O	A	-
<b>MBN10AA010</b>	<b>LEVEL CONTROL VALVE</b>					
KA01	GLOBE VALVE	O/C	O/C	O/C	A	-
MS01	FLOAT ACTUATOR					
<b>MBN10AA025</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	O/C	O	A	Safe closed
KA02	OUTLET AIR VALVE	-	-	-	-	-
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	O/C	O	A	-
<b>MBN10AA030</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	O/C	O	A	Safe closed
KA02	OUTLET AIR VALVE	-	-	-	-	-
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	O/C	O	A	-
<b>MBN10AA040</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O/C	C	A	Safe closed
KA02	OUTLET AIR VALVE	-	-	-	-	-
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	O/C	O	A	-
<b>MBN10AA205</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	Fuel tank drain valve.
<b>MBN10AA215</b>	<b>SAFETY VALVE</b>					
KA01	SPRING GATE VALVE	-	-	-	N/A	-
<b>MBN10AA220</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	Filter drain valve.
<b>MBN10AA225</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	Filter drain valve.
<b>MBN10AA235</b>	<b>VENTILATION DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	-
<b>MBN10AA240</b>	<b>VENTILATION DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	-
<b>MBN10AA405</b>	<b>TEST VALVE</b>					
KA01	NEEDLE VALVE	C	C	C	L	-
KZ01	PLUG	-	-	-	-	-
<b>MBN10AA406</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	-
<b>MBN10AA407</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	-
<b>MBN30AA005</b>	<b>CLEANING AIR VALVE</b>					
KA01	BALL VALVE	O/C	O/C	C	A	-
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH	-	-	-	-	-
-S21	LIMIT SWITCH	-	-	-	-	-
-Y01	SOLENOID VALVE	O/C	O/C	C	A	-
<b>MBN30AA010</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O/C	O/C	C	A	-

Remark	<b>B4516, B4518, B925-927, B4555-4558</b>		year-month-day	Plant		Des	
Based on Doc no / revision	Orig.	<b>04.10.21</b>	<b>YAMAMA CEMENT</b>		<b>MBN, MBU10</b>		
Title	Rev	<b>06.08.16</b>	Appr. by	Nicklas Söderholm	Resp. dept.	<b>GPML</b>	HG <b>9100</b>
	Rev	-	Prepared by	<b>A-L.SWARTZ</b>	Order no	<b>B4516</b>	Archive -
	Rev	-	Checked by	Göran Andersson	Latest rev.	<b>a</b>	Lang. -
<b>LIQUID FUEL SYSTEM</b>	<b>SIEMENS</b>		Doc. no	<b>2046041</b>		Sheet	<b>2</b>
<b>BASE POSITION LIST</b>					Tot.	<b>11</b>	

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KKS DES.	DESCRIPTION	SHUT DOWN	START UP	OPERATION	OPER PLACE	REMARK VALVE BASE POSITION
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH	-	-	-	-	-
-S21	LIMIT SWITCH	-	-	-	-	-
-Y01	SOLENOID VALVE	O/C	O/C	C	A	-
<b>MBN30AA015</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O/C	O/C	C	A	Closed if P<4MW
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	O/C	O/C	C	A	-
<b>MBN30AA025</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O/C	O/C	C	A	-
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	O/C	O/C	C	A	-
<b>MBN30AA030</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	O/C	C	A	Open if P<4MW
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	O/C	C	A	-
<b>MBN30AA035</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O/C	O/C	C	A	-
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH	-	-	-	-	-
-S21	LIMIT SWITCH	-	-	-	-	-
-Y01	SOLENOID VALVE	O/C	O/C	C	A	-
<b>MBN40AA005</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O/C	O	A	Closed if P<4MW
MS01	PNEUMATIC ACTUATOR					
<b>MBN40AA010</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O/C	O	A	Closed if P<4MW
MS01	PNEUMATIC ACTUATOR					
<b>MBN40AA015</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O/C	O	A	Closed if P<4MW
MS01	PNEUMATIC ACTUATOR					
<b>MBN40AA020</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O/C	O	A	Closed if P<4MW
MS01	PNEUMATIC ACTUATOR					
<b>MBN40AA025</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O/C	O	A	Closed if P<4MW
MS01	PNEUMATIC ACTUATOR					
<b>MBN40AA030</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O/C	O	A	Closed if P<4MW
MS01	PNEUMATIC ACTUATOR					
<b>MBN40AA035</b>	<b>SHUT OFF VALVE</b>					
-Y01	SOLENOID VALVE	C	O/C	O/C	A	Open if P<4MW
<b>MBN40AA040</b>	<b>SHUT OFF VALVE</b>					
-Y01	SOLENOID VALVE	C	O/C	O/C	A	Open if P<4MW
<b>MBP05AA005</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	O Close at service
<b>MBP05AA015</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	A	O	A	C
MS01	ACTUATOR					
-S11	LIMIT SWITCH	-	-	-	-	-
-S21	LIMIT SWITCH	-	-	-	-	-
-Y01	SOLENOID VALVE	C	A	O	A	C
<b>MBP05AA020</b>	<b>SHUT OFF VALVE</b>					

Remark	<b>B4516, B4518, B925-927, B4555-4558</b>		year-month-day	Plant		Des	
Based on Doc no / revision	Orig.	<b>04.10.21</b>	<b>YAMAMA CEMENT</b>		<b>MBP</b>		
Title	Rev	<b>06.08.16</b>	Appr. by	Nicklas Söderholm	Resp. dept.	<b>GPML</b>	HG <b>9100</b>
	Rev	-	Prepared by	<b>A-L.SWARTZ</b>	Order no	<b>B4516</b>	Archive -
	Rev	-	Checked by	Göran Andersson	Latest rev.	<b>a</b>	Lang. -
<b>GAS FUEL SYSTEM</b>	<b>SIEMENS</b>		Doc. no	<b>2046041</b>		Sheet	<b>3</b>
<b>BASE POSITION LIST</b>						Tot.	<b>11</b>

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KKS DES.	DESCRIPTION	SHUT DOWN	START UP	OPERATION	OPER PLACE	REMARK VALVE BASE POSITION
KA01	BALL VALVE	O	O	O	L	O Open/ close depends on which filter that is in use.
<b>MBP05AA025</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	O Open/ close depends on which filter that is in use.
<b>MBP05AA030</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	O Open/ close depends on which filter that is in use.
<b>MBP05AA035</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	O Open/ close depends on which filter that is in use.
<b>MBP05AA040</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open/ close depends on which filter that is in use.
<b>MBP05AA045</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open/ close depends on which filter that is in use.
<b>MBP05AA050</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	C	C	L	O Open/ close depends on which filter that is in use.
<b>MBP05AA055</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open/ close depends on which filter that is in use.
<b>MBP05AA205</b>	<b>VENT VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open at service
<b>MBP05AA225</b>	<b>VENT VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open at service
<b>MBP05AA230</b>	<b>VENT. VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open at service
<b>MBP05AA235</b>	<b>VENT. VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open at service
<b>MBP05AA240</b>	<b>VENT. VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open at service
<b>MBP05AA245</b>	<b>VENT. VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open at service
<b>MBP05AA250</b>	<b>VENT. VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open at service
<b>MBP05AA255</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	O	O	O	L	O Close when draining out liquid
<b>MBP05AA265</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open when draining out liquid
<b>MBP05AA270</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	O	O	O	L	O Close when draining out liquid
<b>MBP05AA280</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open when draining out liquid

Remark	<b>B4516, B4518, B925-927, B4555-4558</b>		year-month-day	Plant		Des	
Based on Doc no / revision	Orig.	<b>04.10.21</b>	<b>YAMAMA CEMENT</b>		<b>MBP</b>		
Title	Rev	<b>06.08.16</b>	Appr. by	Nicklas Söderholm	Resp. dept.	<b>GPML</b>	
	Rev	-	Prepared by	<b>A-L.SWARTZ</b>	Order no	<b>B4516</b>	
	Rev	-	Checked by	Göran Andersson	Latest rev.	<b>a</b>	
<b>GAS FUEL SYSTEM</b>	<b>SIEMENS</b>		Doc. no	<b>2046041</b>		Sheet	<b>4</b>
			<b>BASE POSITION LIST</b>			Tot.	<b>11</b>

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KKS DES.	DESCRIPTION	SHUT DOWN	START UP	OPERATION	OPER PLACE	REMARK VALVE BASE POSITION
<b>MBP05AA305</b>	<b>NITROGEN PURGING VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C
<b>MBP05AA310</b>	<b>NITROGEN PURGING VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C
<b>MBP10AA025</b>	<b>QUICK CLOSING VALVE</b>					
KA01	BALL VALVE	C	A	O	A	C
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	A	O	A	C
-Y02	SOLENOID VALVE	O	A	C	A	O
<b>MBP10AA030</b>	<b>QUICK CLOSING VALVE</b>					
KA01	BALL VALVE	C	A	O	A	C
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	A	O	A	C
-Y02	SOLENOID VALVE	O	A	C	A	O
<b>MBP10AA035</b>	<b>GAS FUEL CONTROL VALVE, MAIN GAS</b>					
-B01	POSITION TRANSDUCER	-	-	-	-	-
KA01	BALL VALVE	C	A	A	A	C
-M01	AC-MOTOR					
MS01	ROTARY ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-S31	LIMIT SWITCH					
<b>MBP10AA040</b>	<b>PRESSURE REGULATING VALVE</b>					
KA01	MEMBRANE VALVE	N/A	N/A	N/A	L	N/A
<b>MBP10AA045</b>	<b>PRESSURE REGULATING VALVE</b>					
KA01	MEMBRANE VALVE	N/A	N/A	N/A	L	N/A
<b>MBP10AA205</b>	<b>VENTILATION VALVE</b>					
KA01	BALL VALVE	O	A	C	A	O
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	A	O	A	C
<b>MBP10AA230</b>	<b>VENTILATION VALVE</b>					
KA01	BALL VALVE	O	A	C	A	O
MS01	PNEUMATIC ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	A	O	A	C
<b>MBP10AA405</b>	<b>DRAIN VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C
<b>MBP20AA005</b>	<b>GAS FUEL CONTROL VALVE, PRIMARY GAS</b>					
-B01	POSITION TRANSDUCER					
KA01	BALL VALVE	C	A	A	A	C
-M01	AC-MOTOR					
MS01	ROTARY ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-S31	LIMIT SWITCH					
<b>MBQ10AA005</b>	<b>PRESSURE REDUCING VALVE</b>					
KA01	MEMBRANE VALVE	N/A	N/A	N/A	L	N/A
<b>MBQ10AA010</b>	<b>PRESSURE REDUCING VALVE</b>					

Remark	<b>B4516, B4518, B925-927, B4555-4558</b>		year-month-day	Plant	Des
Based on Doc no / revision	Orig.	<b>04.10.21</b>	<b>YAMAMA CEMENT</b>		<b>MBQ</b>
Title	Rev	<b>06.08.16</b>	Appr. by	Nicklas Söderholm	Resp. dept. <b>GPML</b>
	Rev	-	Prepared by	<b>A-L.SWARTZ</b>	Order no <b>B4516</b>
	Rev	-	Checked by	Göran Andersson	Latest rev. <b>a</b>
<b>IGNITION GAS SYSTEM</b>	<b>SIEMENS</b>		Doc. no	<b>2046041</b>	Sheet <b>5</b>
<b>BASE POSITION LIST</b>					Tot. <b>11</b>

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KKS DES.	DESCRIPTION	SHUT DOWN	START UP	OPERATION	OPER PLACE	REMARK VALVE BASE POSITION
KA01	MEMBRANE VALVE	N/A	N/A	N/A	L	N/A
<b>MBQ10AA015</b>	<b>PRESSURE REDUCING VALVE</b>					
KA01	MEMBRANE VALVE	N/A	N/A	N/A	L	N/A
<b>MBQ10AA020</b>	<b>PRESSURE REDUCING VALVE</b>					
KA01	MEMBRANE VALVE	N/A	N/A	N/A	L	N/A
<b>MBQ10AA025</b>	<b>THREE WAY VALVE</b>					
KA01	BALL VALVE	O	O	O	L	O Open to active bottles.
<b>MBQ10AA035</b>	<b>PRESSURE REDUCING VALVE</b>					
KA01	MEMBRAN VALVE	N/A	N/A	N/A	L	N/A
<b>MBQ10AA040</b>	<b>THREE-WAY VALVE</b>					
KA01	BALL VALVE	C	A	C	A	C
MS01	ACTUATOR					
<b>MBQ10AA045</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	A	C	A	C
MS01	ACTUATOR					
<b>MBQ10AA050</b>	<b>CONTROL VALVE</b>					
KA01	NEEDLE VALVE	N/A	N/A	N/A	L	N/A
<b>MBQ10AA210</b>	<b>BYPASS VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C Open at service
<b>MBQ10AA215</b>	<b>NON RETURN VALVE</b>					
KA01	POPPET VALVE	N/A	N/A	N/A	L	N/A
<b>MBQ10AA405</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	O
<b>MBQ10AA410</b>	<b>PRESSURE REGULATING VALVE</b>					
KA01	MEMBRAN VALVE	N/A	N/A	N/A	L	N/A
<b>MBQ10AA415</b>	<b>CONTROL VALVE</b>					
KA01	NEEDLE VALVE	N/A	N/A	N/A	L	N/A
<b>MBQ10AA420</b>	<b>THREE-WAY VALVE</b>					
KA01	BALL VALVE	C	A	C	A	C
MS01	ACTUATOR					
<b>MBQ10AA425</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	A	C	A	C
MS01	ACTUATOR					
<b>MBQ10AA430</b>	<b>SOLENOID VALVE</b>					
-Y01	SOLENOID	C	A	C	A	C
<b>MBQ10AA450</b>	<b>SOLENOID VALVE</b>					
-Y01	SOLENOID	C	A	C	A	C
<b>MBQ20AA005</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	O
<b>MBQ20AA010</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	A	C	A	C
MS01	ACTUATOR					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	A	C	A	C
<b>MBQ20AA015</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	A	C	A	C
MS01	ACTUATOR					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	A	C	A	C
<b>MBQ20AA020</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	A	O	A	O
MS01	ACTUATOR					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	C	A	C	A	C
<b>MBQ20AA205</b>	<b>VENTILATION VALVE</b>					
KA01	BALL VALVE	C	C	C	L	C

Remark	<b>B4516, B4518, B925-927, B4555-4558</b>		year-month-day	Plant	Des
Based on Doc no / revision	Orig.	<b>04.10.21</b>	<b>YAMAMA CEMENT</b>		<b>MBQ</b>
Title	Rev	<b>06.08.16</b>	Appr. by	Nicklas Söderholm	Resp. dept. <b>GPML</b>
	Rev	-	Prepared by	<b>A-L.SWARTZ</b>	Order no <b>B4516</b>
	Rev	-	Checked by	Göran Andersson	Latest rev. <b>a</b>
<b>IGNITION GAS SYSTEM</b>	<b>SIEMENS</b>		Doc. no	<b>2046041</b>	Sheet <b>6</b>
<b>BASE POSITION LIST</b>					Tot. <b>11</b>

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KKS DES.	DESCRIPTION	SHUT DOWN	START UP	OPERATION	OPER PLACE	REMARK VALVE BASE POSITION
<b>MBQ20AA210</b>	<b>VALVE</b>					
KA01	-	N/A	N/A	N/A	N/A	N/A
<b>MBT10AA003</b>	<b>ISOLATION VALVE</b>					
KA01	BALL VALVE	-	-	-	-	-
<b>MBT10AA005</b>	<b>BLEED VALVE 1</b>					
KA01	BUTTERFLY VALVE	O	O	C	A	-
MS01	ACTUATOR					
-S11	LIMIT SWITCH					
-S21	LIMIT SWITCH					
-Y01	SOLENOID VALVE	O	O	C	A	-
<b>MBT10AA007</b>	<b>ISOLATION VALVE</b>					
KA01	BALL VALVE	O	O	O	L	-
<b>MBT10AA010</b>	<b>BLEED VALVE 2</b>					
-B01	POSITION TRANSDUCER					
-B02	POSITION UNIT					
KA01	BUTTERFLY VALVE	O	O	C	A	-
MS01	ACTUATOR					
-Y01	SOLENOID VALVE	O	O	C	A	-
<b>MBU10AA405</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	-
<b>MBU10AA407</b>	<b>CHECK VALVE</b>					
-	-	-	-	-	N/A	-
<b>MBU10AA410</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	-
<b>MBU10AA415</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	C	C	L	Drain valve to the tank.
<b>MBU10AA420</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	-
<b>MBU10AA425</b>	<b>PRESSURE REDUCING VALVE</b>					
KA01	REGULATOR	-	-	-	-	-
P01	PRESSURE GAUGE	O/C	O/C	O/C	A	-
<b>MBU10AA430</b>	<b>SAFETY VALVE</b>					
KA01	SPRING GATE VALVE	-	-	-	N/A	-
<b>MBU10AA435</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	O	O	O	L	-
<b>MBV10AA210</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV21AA010</b>	<b>NON RETURN VALVE, MAIN OIL PUMP MBV21 AP005</b>					
KA01	NON RETURN VALVE	N/A	N/A	N/A	-	Not possible to set.
<b>MBV21AA015</b>	<b>SHUT OFF VALVE, MAIN OIL PUMP MBV21 AP005 PRESSURE SIDE</b>					
KA01	FLANGED GLOBE VALVE	LO	LO	LO	L	LO
<b>MBV22AA010</b>	<b>NON RETURN VALVE, MAIN OIL PUMP MBV22 AP005</b>					
KA01	NON RETURN VALVE	N/A	N/A	N/A	-	Not possible to set.
<b>MBV22AA015</b>	<b>SHUT OFF VALVE, MAIN OIL PUMP MBV22 AP005 PRESSURE SIDE</b>					
KA01	FLANGED GLOBE VALVE	LO	LO	LO	L	LO
<b>MBV23AA010</b>	<b>NON RETURN VALVE, MAIN OIL PUMP MBV23 AP005</b>					
KA01	NON RETURN VALVE	N/A	N/A	N/A	-	Not possible to set.
<b>MBV23AA015</b>	<b>SHUT OFF VALVE, MAIN OIL PUMP MBV23 AP005 PRESSURE SIDE</b>					
KA01	FLANGED GLOBE VALVE	LO	LO	LO	L	LO
<b>MBV30AA020</b>	<b>TEMPERATURE REGULATING VALVE</b>					

Remark	<b>B4516, B4518, B925-927, B4555-4558</b>		year-month-day	Plant		Des	
Based on Doc no / revision	Orig.	<b>04.10.21</b>	<b>YAMAMA CEMENT</b>		<b>MBV</b>		
Title	Rev	<b>06.08.16</b>	Appr. by	Nicklas Söderholm	Resp. dept.	<b>GPML</b>	HG <b>9100</b>
	Rev	-	Prepared by	<b>A-L.SWARTZ</b>	Order no	<b>B4516</b>	Archive -
	Rev	-	Checked by	Göran Andersson	Latest rev.	<b>a</b>	Lang. -
<b>LUBE OIL SYSTEM</b>	<b>SIEMENS</b>		Doc. no	<b>2046041</b>		Sheet	<b>7</b>
<b>BASE POSITION LIST</b>						Tot.	<b>11</b>

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KKS DES.	DESCRIPTION	SHUT DOWN	START UP	OPERATION	OPER PLACE	REMARK VALVE BASE POSITION
KA01	THREE WAY VALVE	N/A	N/A	N/A	L	Self operating
<b>MBV30AA025</b>	<b>PRESSURE ADJUSTING VALVE</b>					
KA01	ADJUSTABLE ORIFICE	N/A	N/A	N/A	L	Set at commisioning.
<b>MBV30AA030</b>	<b>SHUT OFF VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LO	LO	LO	L	LO
<b>MBV30AA035</b>	<b>SHUT OFF VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LO	LO	LO	L	LO
<b>MBV30AA040</b>	<b>SHUT OFF VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LO	LO	LO	L	LO
<b>MBV30AA045</b>	<b>SHUT OFF VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LO	LO	LO	L	LO
<b>MBV30AA050</b>	<b>SHUT OFF VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LO	LO	LO	L	LO
<b>MBV30AA055</b>	<b>SHUT OFF VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LO	LO	LO	L	LO
<b>MBV30AA220</b>	<b>VENT VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV30AA225</b>	<b>DRAIN VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV30AA230</b>	<b>VENT VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV30AA235</b>	<b>DRAIN VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV30AA250</b>	<b>VENT VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV30AA255</b>	<b>DRAIN VALVE, AIR COOLED OIL COOLER</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV40AA005</b>	<b>CHANGE OVER VALVE, LUBE OIL FILTER</b>					
KA01	BALL VALVE	-	-	-	-	Open to one filter.
<b>MBV40AA010</b>	<b>CHANGE OVER VALVE, LUBE OIL FILTER</b>					
KA01	BALL VALVE	-	-	-	-	Open to one filter.
<b>MBV40AA015</b>	<b>EQUALISATION VALVE, LUBE OIL FILTER</b>					
KA01	BALL VALVE	C	C	C	L	C
<b>MBV40AA020</b>	<b>OIL SAMPLING VALVE</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV40AA205</b>	<b>DRAIN VALVE, PIPING SYSTEM</b>					
KA01	BALL VALVE	C	C	C	L	C
<b>MBV40AA210</b>	<b>SHUT OFF VALVE</b>					
KA01	BALL VALVE	C	C	C	L	-
<b>MBV40AA215</b>	<b>DRAIN VALVE, LUBE OIL FILTER</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV40AA220</b>	<b>DRAIN VALVE, LUBE OIL FILTER</b>					
KA01	BALL VALVE	LC	LC	LC	L	LC
<b>MBV40AA225</b>	<b>VENT VALVE, LUBE OIL FILTER</b>					
KA01	BALL VALVE	-	-	-	-	Open to active filter

Remark	<b>B4516, B4518, B925-927, B4555-4558</b>		year-month-day	Plant		Des	
Based on Doc no / revision	Orig.	<b>04.10.21</b>	<b>YAMAMA CEMENT</b>		<b>MBV</b>		
Title	Rev	<b>06.08.16</b>	Appr. by	Nicklas Söderholm	Resp. dept.	<b>GPML</b>	HG <b>9100</b>
	Rev	-	Prepared by	<b>A-L.SWARTZ</b>	Order no	<b>B4516</b>	Archive -
	Rev	-	Checked by	Göran Andersson	Latest rev.	<b>a</b>	Lang. -
<b>LUBE OIL SYSTEM</b>	<b>SIEMENS</b>		Doc. no	<b>2046041</b>		Sheet	<b>8</b>
<b>BASE POSITION LIST</b>					Tot.	<b>11</b>	







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KKS DES.	DESCRIPTION	SHUT DOWN	START UP	OPERATION	OPER PLACE	REMARK VALVE BASE POSITION
KA01	CHECK VALVE	N/A	N/A	N/A	*	* Oper place N/A
<b>SGJ10AA015</b>	<b>BOTTLE VALVE</b>					
KA01	Globe Valve	C	C	C	A	C
<b>SGJ10AA016</b>	<b>CHECK VALVE</b>					
KA01	CHECK VALVE	N/A	N/A	N/A	*	* Oper place N/A
<b>SGJ10AA020</b>	<b>BOTTLE VALVE</b>					
KA01	Globe Valve	C	C	C	A	C
<b>SGJ10AA021</b>	<b>CHECK VALVE</b>					
KA01	CHECK VALVE	N/A	N/A	N/A	*	* Oper place N/A
<b>SGJ10AA025</b>	<b>BOTTLE VALVE</b>					
KA01	Globe Valve	C	C	C	A	C
<b>SGJ10AA026</b>	<b>CHECK VALVE</b>					
KA01	CHECK VALVE	N/A	N/A	N/A	*	* Oper place N/A
<b>SGJ10AA301</b>	<b>TEST VALVE</b>					
KA01	CHECK VALVE	C	C	C	A	C
MR01	TEST CONNECTION					
<b>SGJ10AA505</b>	<b>BOTTLE VALVE</b>					
KA01	Globe Valve	C	C	C	A	C
<b>SGJ10AA506</b>	<b>CHECK VALVE</b>					
KA01	CHECK VALVE	C	C	C	A	Not possible to set.
<b>SGJ10AA510</b>	<b>BOTTLE VALVE</b>					
KA01	Globe Valve	C	C	C	A	C
<b>SGJ10AA511</b>	<b>CHECK VALVE</b>					
KA01	CHECK VALVE	C	C	C	A	Not possible to set.

Remark <b>B4516, B4518, B925-927, B4555-4558</b>		year-month-day	Plant		Des	
Based on Doc no / revision	Orig.	<b>04.10.21</b>	<b>YAMAMA CEMENT</b>		<b>SGJ</b>	
Title <b>FIRE EXTINGUISHING SYSTEM CO2</b>	Rev	<b>06.08.16</b>	Appr. by	Nicklas Söderholm	Resp. dept.	<b>GPML</b>
	Rev	-	Prepared by	<b>A-L.SWARTZ</b>	Order no	<b>B4516</b>
	Rev	-	Checked by	Göran Andersson	Latest rev.	<b>a</b>
<b>BASE POSITION LIST</b>	<b>SIEMENS</b>		Doc. no		Sheet 11	
			<b>2046041</b>		Tot. 11	