

DATA SHEET NUMBER: 0001 VALVES WITH HYDRO PNEUMATICAL ACTUATORS									
Rev. no.	Completed by the CLIENT				Rev. no.	Completed by the SUPPLIER			
<b>GENERAL VALVE INFORMATION</b>					<b>GENERAL INFORMATION</b>				
	1	NAME AND NUMBER OF VALVE SPECIFICATION		ball valve - HCA14		40	ACTUATOR MANUFACTURER		
	2	SITE OF INSTALLATION		HPS		41	TYPE OF ACTUATOR		
	3	TYPE OF VALVE		BALL VALVE		42	WIRING SCHEMATIC - MANUFACTURER'S INTERFACE DOCUMENTATION NO.:		
	4	DN		1000		43	CONNECTION TO VALVE (FLANGE) PER ISO		
	5	P&ID		J171-GOT-HPS-SO-600-SK-6003		44	MANUFACTURER'S CATALOGUE MARKING		
	6	TAG. NUMBER		HCA14		45	TECHNICAL SPECIFICATION - MANUFACTURER'S DOCUMENT NO.:		
<b>VALVE OPERATING AND DESIGN PARAMETERS</b>					<b>ACTUATOR OPERATING AND DESIGN PARAMETERS</b>				
	7	AMBIENT CONDITIONS AT SITE OF OPERATION		-29°C / +59°C		46	MAX. MEDIA WORKING PRESSURE (bar)		
	8	WORKING MEDIUM		natural gas		47	(MAX / MIN) MEDIA WORKING TEMPERATURE (°C)		
	9	MEDIA COMPOSITION		mech. impurity content up to 5 mm max. 100 g/m³		48	DESIGN PRESSURE (bar)		
	10	MAX. WORKING PRESSURE		8.4 MPa(g)		49	DESIGN TEMPERATURE (MAX. / MIN.) (°C)		
	11	DIFFERENTIAL PRESSURE				50	NUMBER OF OPERATING CYCLES WITHOUT WORKING MEDIA		
	12	MAX./MIN. WORKING MEDIA TEMPERATURE		0°C / 40°C		51	MAX. TORQUE		
	13	ELEVATION				52	ACTUATOR TORQUE RATING		
	14	DIRECTION OF FLOW OF WORKING MEDIA		bidirectional		53	LEVEL OF IP PROTECTION PER IEC 60529		
	15	VALVE CLOSING/OPENING REQUIREMENTS		<div>Max</div> <div>Open ..... s</div> <div>Close 90 s</div> <div>Min.</div> <div>Open ..... s</div> <div>Close ..... s</div>		54	MANUFACTURER'S DESIGN VALUES - VALVE CLOSING/OPENING		<div>Max</div> <div>Open ..... s</div> <div>Close ..... s</div> <div>Min.</div> <div>Open ..... s</div> <div>Close ..... s</div>
	Notes:					Notes:			
<b>GENERAL ACTUATOR TECHNICAL DATA</b>					<b>TECHNICAL DATA SPECIFIED BY THE MANUFACTURER</b>				
	17	HYDRO PNEUMATIC CONTROL TYPE				56	PNEUMATIC CONTROL TYPE		
	18	NAME AND NUMBER OF CONTROL SPECIFICATION		J171-GOT-LCG-PC-MTO-SK-6001		57	WORKING MEDIUM		
	19	CONTROL WORKING MEDIUM		natural gas		58	SPECIFICATIONS OF WORK. MEDIUM AT CONNECTION POINT		
	20	CONNECTION (INTERFACE) SPECIFICATIONS		<div>WORKING MEDIUM</div> <div>VALVE</div> <div>I&amp;C (Feldbus, Profibus etc.)</div> <div>no</div>		59	MANUFACTURER'S DESIGN FOR CONNECTION (INTERFACE)		<div>WORKING MEDIUM</div> <div>VALVE</div> <div>I&amp;C (Feldbus, Profibus etc.)</div>
	21	VALVE POSITION SENSOR		<div>CONTINUOUS POSITION CHECK</div> <div>LIMIT POSITION</div> <div>SAFE POSITION</div> <div>yes</div> <div>FL - holds last position</div>		60	VALVE POSITION SENSOR - MANUFACTURER-RECOMMENDED LIMIT SENSORS		<div>CONTINUOUS POSITION CHECK</div> <div>LIMIT POSITION</div> <div>SAFE POSITION</div>
	22	MAX. AMBIENT TEMPERATURE (°C)		-29°C / +59°C		61	MAG. VALVES - MANUFACTURER SPECIFICATIONS		
	23	MAX. RELATIVE HUMIDITY (%)				62	PILOT-MANUFACTURER SPECIFICATIONS		
	24	ALTITUDE / ELEVATION				63	SHUT-OFF VALVES - MANUFACTURER SPECIFICATIONS		
	25	ENVIRONMENT REQUIREMENTS / SPECIFICATIONS				64	PRIMARY ACTUATOR DIMENSIONS		
	26	Ex ZONE		2		65	TRANSPORT WEIGHT OF ACTUATOR		
	27	ESD, SAV, PILOT		LBS - fault protection HP - quick closing pilot		66	TRANSPORT PACKAGING, PROTECTION FROM DAMAGE		
<b>LOCAL CONTROL</b>					<b>LOCAL CONTROL DESIGNED BY MANUFACTURER</b>				
	28	CONTROL BUTTONS - LOCAL		<div>OPEN</div> <div>CLOSED</div> <div>STOP</div> <div>yes</div> <div>yes</div> <div>yes</div>		67	CONTROL BUTTONS - LOCAL		<div>OPEN</div> <div>CLOSED</div> <div>STOP</div>
<b>REMOTE CONTROL</b>					<b>REMOTE CONTROL DESIGNED BY MANUFACTURER</b>				
	29	REMOTE CONTROL		<div>OPEN</div> <div>CLOSED</div> <div>STOP</div> <div>yes</div> <div>yes</div> <div>yes</div>		68	REMOTE CONTROL		<div>OPEN</div> <div>CLOSED</div> <div>STOP</div>
<b>REQUIREMENTS FOR MATERIALS AND CORROSION PROTECTION</b>					<b>DESIGN OF MATERIALS AND CORROSION PROTECTION FROM MANUFACTURER</b>				
	30	IMPULSE TUBES		stainless		69	IMPULSE TUBES		
	31	PRESSURE VESSEL		stainless		70	PRESSURE VESSEL		
		MAGNETIC VALVES		stainless			MAGNETIC VALVES		
	32	CONTROL PANEL		stainless		71	CONTROL PANEL		
	33	CORROSION PROTECTION		J171-GOT-LCG-PC-SPC-SK-6001		72	CORROSION PROTECTION		

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Rev. no.	Completed by the CLIENT			Rev. no.	Completed by the SUPPLIER
	CERTIFICATION				CERTIFICATION
	34	DRGV- RESTRICTED PRESSURISED EQUIPMENT	yes		73 DRGV- RESTRICTED PRESSURISED EQUIPMENT
	35	ATEX	yes		74 ATEX
	DOCUMENTATION AND TESTING				DOCUMENTATION AND TESTING
	36	FAT	J171-GOT-LCG-PC-SPC-SK-6001		75 FAT SPECIFICATION AND IMPLEMENTATION PROCEDURE -DOC. NO.:
	37	CERTIFICATION REQUIREMENTS UNDER EN 10 204	3.2		76 CONFIRMATION OF MANUFACTURER'S CERTIFICATION TESTING UNDER EN 10 204
	38	DOCUMENTATION REQUIREMENTS FOR FINAL CONFIGURATION	J171-GOT-LCG-PC-SPC-SK-6001		77 DOCUMENTATION FOR FINAL CONFIGURATION
	39	REQUIREMENTS FOR PACKAGING AND TRANSPORT	J171-GOT-LCG-PC-SPC-SK-6001		78 MANUFACTURER'S DECLARATION - CLIENT'S SPECIFICATIONS ACCEPTED IN FULL
			J171-GOT-LCG-PC-SPC-SK-6001		79

NOTES:

This data sheet is used as a reference for purchasing hydro pneumatically controlled ball valves for HPS and KS01 installations. All HPO actuators for ball valves defined in the "J171-GOT-LCG-PC-SPC-SK-6001" list of ball valves shall be specified in detail in Phase 7 of the project's implementation documentation.

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DATA SHEET NUMBER: 0002 VALVES WITH HYDRO PNEUMATICAL ACTUATORS									
Rev. no.	Completed by the CLIENT				Rev. no.	Completed by the SUPPLIER			
<b>GENERAL VALVE INFORMATION</b>					<b>GENERAL INFORMATION</b>				
	1	NAME AND NUMBER OF VALVE SPECIFICATION		ball valve - HCA25		40	ACTUATOR MANUFACTURER		
	2	SITE OF INSTALLATION		HPS		41	TYPE OF ACTUATOR		
	3	TYPE OF VALVE		BALL VALVE		42	WIRING SCHEMATIC - MANUFACTURER'S INTERFACE DOCUMENTATION NO.:		
	4	DN		1000		43	CONNECTION TO VALVE (FLANGE) PER ISO		
	5	P&ID		J171-GOT-HPS-SO-600-SK-6003		44	MANUFACTURER'S CATALOGUE MARKING		
	6	TAG. NUMBER		HCA25		45	TECHNICAL SPECIFICATION - MANUFACTURER'S DOCUMENT NO.:		
<b>VALVE OPERATING AND DESIGN PARAMETERS</b>					<b>ACTUATOR OPERATING AND DESIGN PARAMETERS</b>				
	7	AMBIENT CONDITIONS AT SITE OF OPERATION		-29°C / +59°C		46	MAX. MEDIA WORKING PRESSURE (bar)		
	8	WORKING MEDIUM		natural gas		47	(MAX / MIN) MEDIA WORKING TEMPERATURE (°C)		
	9	MEDIA COMPOSITION		mech. impurity content up to 5 mm max. 100 g/m³		48	DESIGN PRESSURE (bar)		
	10	MAX. WORKING PRESSURE		7.25 MPa(g)		49	DESIGN TEMPERATURE (MAX. / MIN.) (°C)		
	11	DIFFERENTIAL PRESSURE				50	NUMBER OF OPERATING CYCLES WITHOUT WORKING MEDIA		
	12	MAX./MIN. WORKING MEDIA TEMPERATURE		0°C / 40°C		51	MAX. TORQUE		
	13	ELEVATION				52	ACTUATOR TORQUE RATING		
	14	DIRECTION OF FLOW OF WORKING MEDIA		bidirectional		53	LEVEL OF IP PROTECTION PER IEC 60529		
	15	VALVE CLOSING/OPENING REQUIREMENTS		<div>Max</div> <div>Open ..... s</div> <div>Close 90 s</div> <div>Min.</div> <div>Open ..... s</div> <div>Close ..... s</div>		54	MANUFACTURER'S DESIGN VALUES - VALVE CLOSING/OPENING		<div>Max</div> <div>Open ..... s</div> <div>Close ..... s</div> <div>Min.</div> <div>Open ..... s</div> <div>Close ..... s</div>
	Notes:					Notes:			
<b>GENERAL ACTUATOR TECHNICAL DATA</b>					<b>TECHNICAL DATA SPECIFIED BY THE MANUFACTURER</b>				
	17	HYDRO PNEUMATIC CONTROL TYPE				56	PNEUMATIC CONTROL TYPE		
	18	NAME AND NUMBER OF CONTROL SPECIFICATION		J171-GOT-LCG-PC-MTO-SK-6001		57	WORKING MEDIUM		
	19	CONTROL WORKING MEDIUM		natural gas		58	SPECIFICATIONS OF WORK. MEDIUM AT CONNECTION POINT		
	20	CONNECTION (INTERFACE) SPECIFICATIONS		<div>WORKING MEDIUM</div> <div>VALVE</div> <div>I&amp;C (Feldbus, Profibus etc.)</div> <div>no</div>		59	MANUFACTURER'S DESIGN FOR CONNECTION (INTERFACE)		<div>WORKING MEDIUM</div> <div>VALVE</div> <div>I&amp;C (Feldbus, Profibus etc.)</div>
	21	VALVE POSITION SENSOR		<div>CONTINUOUS POSITION CHECK</div> <div>LIMIT POSITION</div> <div>SAFE POSITION</div> <div>yes</div> <div>FL - holds last position</div>		60	VALVE POSITION SENSOR - MANUFACTURER-RECOMMENDED LIMIT SENSORS		<div>CONTINUOUS POSITION CHECK</div> <div>LIMIT POSITION</div> <div>SAFE POSITION</div>
	22	MAX. AMBIENT TEMPERATURE (°C)		-29°C / +59°C		61	MAG. VALVES - MANUFACTURER SPECIFICATIONS		
	23	MAX. RELATIVE HUMIDITY (%)				62	PILOT-MANUFACTURER SPECIFICATIONS		
	24	ALTITUDE / ELEVATION				63	SHUT-OFF VALVES - MANUFACTURER SPECIFICATIONS		
	25	ENVIRONMENT REQUIREMENTS / SPECIFICATIONS				64	PRIMARY ACTUATOR DIMENSIONS		
	26	Ex ZONE		2		65	TRANSPORT WEIGHT OF ACTUATOR		
	27	ESD, SAV, PILOT		LBS - fault protection HP - quick closing pilot		66	TRANSPORT PACKAGING, PROTECTION FROM DAMAGE		
<b>LOCAL CONTROL</b>					<b>LOCAL CONTROL DESIGNED BY MANUFACTURER</b>				
	28	CONTROL BUTTONS - LOCAL		<div>OPEN</div> <div>yes</div> <div>CLOSED</div> <div>yes</div> <div>STOP</div> <div>no</div>		67	CONTROL BUTTONS - LOCAL		<div>OPEN</div> <div>CLOSED</div> <div>STOP</div>
<b>REMOTE CONTROL</b>					<b>REMOTE CONTROL DESIGNED BY MANUFACTURER</b>				
	29	REMOTE CONTROL		<div>OPEN</div> <div>yes</div> <div>CLOSED</div> <div>yes</div> <div>STOP</div> <div>no</div>		68	REMOTE CONTROL		<div>OPEN</div> <div>CLOSED</div> <div>STOP</div>
<b>REQUIREMENTS FOR MATERIALS AND CORROSION PROTECTION</b>					<b>DESIGN OF MATERIALS AND CORROSION PROTECTION FROM MANUFACTURER</b>				
	30	IMPULSE TUBES		stainless		69	IMPULSE TUBES		
	31	PRESSURE VESSEL		stainless		70	PRESSURE VESSEL		
		MAGNETIC VALVES		stainless			MAGNETIC VALVES		
	32	CONTROL PANEL		stainless		71	CONTROL PANEL		
	33	CORROSION PROTECTION		J171-GOT-LCG-PC-SPC-SK-6001		72	CORROSION PROTECTION		

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Rev. no.	Completed by the CLIENT			Rev. no.	Completed by the SUPPLIER	
	CERTIFICATION				CERTIFICATION	
	34	DRGV- RESTRICTED PRESSURISED EQUIPMENT	yes		73	DRGV- RESTRICTED PRESSURISED EQUIPMENT
	35	ATEX	yes		74	ATEX
	DOCUMENTATION AND TESTING				DOCUMENTATION AND TESTING	
	36	FAT	J171-GOT-LCG-PC-SPC-SK-6001		75	FAT SPECIFICATION AND IMPLEMENTATION PROCEDURE -DOC. NO.:
	37	CERTIFICATION REQUIREMENTS UNDER EN 10 204	3.2		76	CONFIRMATION OF MANUFACTURER'S CERTIFICATION TESTING UNDER EN 10 204
		DOCUMENTATION REQUIREMENTS FOR FINAL CONFIGURATION	J171-GOT-LCG-PC-SPC-SK-6001		77	DOCUMENTATION FOR FINAL CONFIGURATION
	39	REQUIREMENTS FOR PACKAGING AND TRANSPORT	J171-GOT-LCG-PC-SPC-SK-6001		78	MANUFACTURER'S DECLARATION - CLIENT'S SPECIFICATIONS ACCEPTED IN FULL
			J171-GOT-LCG-PC-SPC-SK-6001		79	

**NOTES:**

This data sheet is used as a reference for purchasing hydro pneumatically controlled ball valves for HPS and KS01 installations. All HPO actuators for ball valves defined in the "J171-GOT-LCG-PC-SPC-SK-6001" list of ball valves shall be specified in detail in Phase 7 of the project's implementation documentation.

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Rev. no.	Completed by the CLIENT				Rev. no.	Completed by the SUPPLIER			
<b>GENERAL VALVE INFORMATION</b>					<b>GENERAL INFORMATION</b>				
	1	NAME AND NUMBER OF VALVE SPECIFICATION		ball valve - HCA33		40	ACTUATOR MANUFACTURER		
	2	SITE OF INSTALLATION		HPS		41	TYPE OF ACTUATOR		
	3	TYPE OF VALVE		BALL VALVE		42	WIRING SCHEMATIC - MANUFACTURER'S INTERFACE DOCUMENTATION NO.:		
	4	DN		1000		43	CONNECTION TO VALVE (FLANGE) PER ISO		
	5	P&ID		J171-GOT-HPS-SO-600-SK-6003		44	MANUFACTURER'S CATALOGUE MARKING		
	6	TAG. NUMBER		HCA33		45	TECHNICAL SPECIFICATION - MANUFACTURER'S DOCUMENT NO.:		
<b>VALVE OPERATING AND DESIGN PARAMETERS</b>					<b>ACTUATOR OPERATING AND DESIGN PARAMETERS</b>				
	7	AMBIENT CONDITIONS AT SITE OF OPERATION		-29°C / +59°C		46	MAX. MEDIA WORKING PRESSURE (bar)		
	8	WORKING MEDIUM		natural gas		47	(MAX / MIN) MEDIA WORKING TEMPERATURE (°C)		
	9	MEDIA COMPOSITION		mech. impurity content up to 5 mm max. 100 g/m³		48	DESIGN PRESSURE (bar)		
	10	MAX. WORKING PRESSURE		8.4 MPa(g)		49	DESIGN TEMPERATURE (MAX. / MIN.) (°C)		
	11	DIFFERENTIAL PRESSURE				50	NUMBER OF OPERATING CYCLES WITHOUT WORKING MEDIA		
	12	MAX./MIN. WORKING MEDIA TEMPERATURE		0°C / 40°C		51	MAX. TORQUE		
	13	ELEVATION				52	ACTUATOR TORQUE RATING		
	14	DIRECTION OF FLOW OF WORKING MEDIA		bidirectional		53	LEVEL OF IP PROTECTION PER IEC 60529		
	15	VALVE CLOSING/OPENING REQUIREMENTS		<div>Max</div> <div>Open ..... s</div> <div>Close 90 s</div> <div>Min.</div> <div>Open ..... s</div> <div>Close ..... s</div>		54	MANUFACTURER'S DESIGN VALUES - VALVE CLOSING/OPENING		<div>Max</div> <div>Open ..... s</div> <div>Close ..... s</div> <div>Min.</div> <div>Open ..... s</div> <div>Close ..... s</div>
	Notes:					Notes:			
<b>GENERAL ACTUATOR TECHNICAL DATA</b>					<b>TECHNICAL DATA SPECIFIED BY THE MANUFACTURER</b>				
	17	HYDRO PNEUMATIC CONTROL TYPE				56	PNEUMATIC CONTROL TYPE		
	18	NAME AND NUMBER OF CONTROL SPECIFICATION		J171-GOT-LCG-PC-MTO-SK-6001		57	WORKING MEDIUM		
	19	CONTROL WORKING MEDIUM		natural gas		58	SPECIFICATIONS OF WORK. MEDIUM AT CONNECTION POINT		
	20	CONNECTION (INTERFACE) SPECIFICATIONS		<div>WORKING MEDIUM</div> <div>VALVE</div> <div>I&amp;C (Feldbus, Profibus etc.)</div> <div>no</div>		59	MANUFACTURER'S DESIGN FOR CONNECTION (INTERFACE)		<div>WORKING MEDIUM</div> <div>VALVE</div> <div>I&amp;C (Feldbus, Profibus etc.)</div>
	21	VALVE POSITION SENSOR		<div>CONTINUOUS POSITION CHECK</div> <div>LIMIT POSITION</div> <div>SAFE POSITION</div> <div>yes</div> <div>FL - holds last position</div>		60	VALVE POSITION SENSOR - MANUFACTURER-RECOMMENDED LIMIT SENSORS		<div>CONTINUOUS POSITION CHECK</div> <div>LIMIT POSITION</div> <div>SAFE POSITION</div>
	22	MAX. AMBIENT TEMPERATURE (°C)		-29°C / +59°C		61	MAG. VALVES - MANUFACTURER SPECIFICATIONS		
	23	MAX. RELATIVE HUMIDITY (%)				62	PILOT-MANUFACTURER SPECIFICATIONS		
	24	ALTITUDE / ELEVATION				63	SHUT-OFF VALVES - MANUFACTURER SPECIFICATIONS		
	25	ENVIRONMENT REQUIREMENTS / SPECIFICATIONS				64	PRIMARY ACTUATOR DIMENSIONS		
	26	Ex ZONE		2		65	TRANSPORT WEIGHT OF ACTUATOR		
	27	ESD, SAV, PILOT		LBS - fault protection		66	TRANSPORT PACKAGING, PROTECTION FROM DAMAGE		
<b>LOCAL CONTROL</b>					<b>LOCAL CONTROL DESIGNED BY MANUFACTURER</b>				
	28	CONTROL BUTTONS - LOCAL		<div>OPEN</div> <div>yes</div> <div>CLOSED</div> <div>yes</div> <div>STOP</div> <div>no</div>		67	CONTROL BUTTONS - LOCAL		<div>OPEN</div> <div>CLOSED</div> <div>STOP</div>
<b>REMOTE CONTROL</b>					<b>REMOTE CONTROL DESIGNED BY MANUFACTURER</b>				
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<b>REQUIREMENTS FOR MATERIALS AND CORROSION PROTECTION</b>					<b>DESIGN OF MATERIALS AND CORROSION PROTECTION FROM MANUFACTURER</b>				
	30	IMPULSE TUBES		stainless		69	IMPULSE TUBES		
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		MAGNETIC VALVES		stainless			MAGNETIC VALVES		
	32	CONTROL PANEL		stainless		71	CONTROL PANEL		
	33	CORROSION PROTECTION		J171-GOT-LCG-PC-SPC-SK-6001		72	CORROSION PROTECTION		

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	34	DRGV- RESTRICTED PRESSURISED EQUIPMENT	yes		73 DRGV- RESTRICTED PRESSURISED EQUIPMENT
	35	ATEX	yes		74 ATEX
	DOCUMENTATION AND TESTING				DOCUMENTATION AND TESTING
	36	FAT	J171-GOT-LCG-PC-SPC-SK-6001		75 FAT SPECIFICATION AND IMPLEMENTATION PROCEDURE -DOC. NO.:
	37	CERTIFICATION REQUIREMENTS UNDER EN 10 204	3.2		76 CONFIRMATION OF MANUFACTURER'S CERTIFICATION TESTING UNDER EN 10 204
	38	DOCUMENTATION REQUIREMENTS FOR FINAL CONFIGURATION	J171-GOT-LCG-PC-SPC-SK-6001		77 DOCUMENTATION FOR FINAL CONFIGURATION
	39	REQUIREMENTS FOR PACKAGING AND TRANSPORT	J171-GOT-LCG-PC-SPC-SK-6001		78 MANUFACTURER'S DECLARATION - CLIENT'S SPECIFICATIONS ACCEPTED IN FULL
			J171-GOT-LCG-PC-SPC-SK-6001		79

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GENERAL VALVE INFORMATION					GENERAL INFORMATION				
1	NAME AND NUMBER OF VALVE SPECIFICATION	ball valve - HCA06, HCA01-TU42, HCA01-TU43, HCA01-TU44			40	ACTUATOR MANUFACTURER			
2	SITE OF INSTALLATION	HPS, TU42, TU43, TU44			41	TYPE OF ACTUATOR			
3	TYPE OF VALVE	BALL VALVE			42	WIRING SCHEMATIC - MANUFACTURER'S INTERFACE DOCUMENTATION NO.:			
4	DN	1000			43	CONNECTION TO VALVE (FLANGE) PER ISO			
5	P&ID	J171-GOT-HPS-SO-600-SK-6003 J171-GOT-TU2-SO-540-SK-6003 J171-GOT-TU3-SO-550-SK-6003 J171-GOT-TU4-SO-560-SK-6003			44	MANUFACTURER'S CATALOGUE MARKING			
6	TAG. NUMBER	HCA06, HCA01			45	TECHNICAL SPECIFICATION - MANUFACTURER'S DOCUMENT NO.:			
VALVE OPERATING AND DESIGN PARAMETERS					ACTUATOR OPERATING AND DESIGN PARAMETERS				
7	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C			46	MAX. MEDIA WORKING PRESSURE (bar)			
8	WORKING MEDIUM	natural gas			47	(MAX / MIN) MEDIA WORKING TEMPERATURE (°C)			
9	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m³			48	DESIGN PRESSURE (bar)			
10	MAX. WORKING PRESSURE	7.25 MPa(g)			49	DESIGN TEMPERATURE (MAX. / MIN.) (°C)			
11	DIFFERENTIAL PRESSURE				50	NUMBER OF OPERATING CYCLES WITHOUT WORKING MEDIA			
12	MAX./MIN. WORKING MEDIA TEMPERATURE	0°C / 40°C			51	MAX. TORQUE			
13	ELEVATION				52	ACTUATOR TORQUE RATING			
14	DIRECTION OF FLOW OF WORKING MEDIA	bidirectional			53	LEVEL OF IP PROTECTION PER IEC 60529			
15	VALVE CLOSING/OPENING REQUIREMENTS	Max	Open ..... s	Close 90 s	54	MANUFACTURER'S DESIGN VALUES - VALVE CLOSING/OPENING		Max	Open ..... s
		Min.	Open ..... s	Close ..... s	55			Min.	Open ..... s
	Notes:					Notes:			
GENERAL ACTUATOR TECHNICAL DATA					TECHNICAL DATA SPECIFIED BY THE MANUFACTURER				
17	HYDRO PNEUMATIC CONTROL TYPE				56	PNEUMATIC CONTROL TYPE			
18	NAME AND NUMBER OF CONTROL SPECIFICATION	J171-GOT-LCG-PC-MTO-SK-6001			57	WORKING MEDIUM			
19	CONTROL WORKING MEDIUM	natural gas			58	SPECIFICATIONS OF WORK. MEDIUM AT CONNECTION POINT			
20	CONNECTION (INTERFACE) SPECIFICATIONS	WORKING MEDIUM			59	MANUFACTURER'S DESIGN FOR CONNECTION (INTERFACE)		WORKING MEDIUM	
		VALVE						VALVE	
		I&C (Feldbus, Profibus etc.)	no					I&C (Feldbus, Profibus etc.)	
21	VALVE POSITION SENSOR	CONTINUOUS POSITION CHECK			60	VALVE POSITION SENSOR - MANUFACTURER-RECOMMENDED LIMIT SENSORS		CONTINUOUS POSITION CHECK	
		LIMIT POSITION	yes					LIMIT POSITION	
		SAFE POSITION	FL - holds last position					SAFE POSITION	
22	MAX. AMBIENT TEMPERATURE (°C)	-29°C / +59°C			61	MAG. VALVES - MANUFACTURER SPECIFICATIONS			
23	MAX. RELATIVE HUMIDITY (%)				62	PILOT-MANUFACTURER SPECIFICATIONS			
24	ALTITUDE / ELEVATION				63	SHUT-OFF VALVES - MANUFACTURER SPECIFICATIONS			
25	ENVIRONMENT REQUIREMENTS / SPECIFICATIONS				64	PRIMARY ACTUATOR DIMENSIONS			
26	Ex ZONE	2			65	TRANSPORT WEIGHT OF ACTUATOR			
27	ESD, SAV, PILOT	LBS - fault protection			66	TRANSPORT PACKAGING, PROTECTION FROM DAMAGE			
LOCAL CONTROL					LOCAL CONTROL DESIGNED BY MANUFACTURER				
28	CONTROL BUTTONS - LOCAL	OPEN	yes		67	CONTROL BUTTONS - LOCAL		OPEN	
		CLOSED	yes					CLOSED	
		STOP	no					STOP	
REMOTE CONTROL					REMOTE CONTROL DESIGNED BY MANUFACTURER				
29	REMOTE CONTROL	OPEN	yes		68	REMOTE CONTROL		OPEN	
		CLOSED	yes					CLOSED	
		STOP	no					STOP	
REQUIREMENTS FOR MATERIALS AND CORROSION PROTECTION					DESIGN OF MATERIALS AND CORROSION PROTECTION FROM MANUFACTURER				
30	IMPULSE TUBES	stainless			69	IMPULSE TUBES			
31	PRESSURE VESSEL	stainless			70	PRESSURE VESSEL			
	MAGNETIC VALVES	stainless				MAGNETIC VALVES			
32	CONTROL PANEL	stainless			71	CONTROL PANEL			
33	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001			72	CORROSION PROTECTION			

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Rev. no.	Completed by the CLIENT			Rev. no.	Completed by the SUPPLIER
	CERTIFICATION				CERTIFICATION
	34	DRGV- RESTRICTED PRESSURISED EQUIPMENT	yes	73	DRGV- RESTRICTED PRESSURISED EQUIPMENT
	35	ATEX	yes	74	ATEX
	DOCUMENTATION AND TESTING				DOCUMENTATION AND TESTING
	36	FAT	J171-GOT-LCG-PC-SPC-SK-6001	75	FAT SPECIFICATION AND IMPLEMENTATION PROCEDURE -DOC. NO.:
	37	CERTIFICATION REQUIREMENTS UNDER EN 10 204	3.2	76	CONFIRMATION OF MANUFACTURER'S CERTIFICATION TESTING UNDER EN 10 204
	38	DOCUMENTATION REQUIREMENTS FOR FINAL CONFIGURATION	J171-GOT-LCG-PC-SPC-SK-6001	77	DOCUMENTATION FOR FINAL CONFIGURATION
	39	REQUIREMENTS FOR PACKAGING AND TRANSPORT	J171-GOT-LCG-PC-SPC-SK-6001	78	MANUFACTURER'S DECLARATION - CLIENT'S SPECIFICATIONS ACCEPTED IN FULL
			J171-GOT-LCG-PC-SPC-SK-6001	79	

**NOTES:**

This data sheet is used as a reference for purchasing hydro pneumatically controlled ball valves for HPS and KS01 installations. All HPO actuators for ball valves defined in the "J171-GOT-LCG-PC-SPC-SK-6001" list of ball valves shall be specified in detail in Phase 7 of the project's implementation documentation.

This translation of the Data sheet from the Slovak into the English language is for an informative purpose only. The Procuring Entity provides no guarantee for quality of this translation and the binding wording of the Data sheet is in the Slovak language.