

DATA SHEET NUMBER: 0001 FOR SHUT-OFF VALVES					
Rev. no.					Rev. no.
1	General information				
2	SITE OF INSTALLATION	HPS	5	QUANTITY	1
3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-HPS-SO-600-SK-6003
4	TAG. NUMBER	HCA14	7		
8	Operating and design parameters				
9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	8.4 MPa(g)
10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	8.4 MPa(g)
12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	underground
14	EX ZONE	2	22	VALVE CONTROL EXTENSION	2300 mm
15	ELEVATION		23	PRESSURE	8.4 MPa(g)
16	DIRECTION OF MEDIA FLOW		24		
25	Design parameters				
28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT	LBS - fault protection HP - quick closing pilot	42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 18.6 mm
48	CONTROL DEVICES AND ACCESSORIES				
49	TYPE OF CONTROL	hydro pneumatic	60	TIME TO CLOSE VALVE	90 s
50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	90 s
51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	230 VDC
52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6002	64		
71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 18.6 mm	78	TYPE OF CABLE CONNECTION	
75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

This data sheet is used as a reference for purchasing hydro pneumatically controlled ball valves for HPS and KS01 installations. All ball valves defined in the "J171-GOT-LCG-PC-MTO-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 FOR SHUT-OFF VALVES					
Rev. no.					Rev. no.
1	General information				
2	SITE OF INSTALLATION	HPS	5	QUANTITY	1
3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-HPS-SO-600-SK-6003
4	TAG. NUMBER	HCA25	7		
8	Operating and design parameters				
9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	7.25 MPa(g)
10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	7.35 MPa(g)
12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	underground
14	EX ZONE	2	22	VALVE CONTROL EXTENSION	2300 mm
15	ELEVATION		23	PRESSURE	7.25 MPa(g)
16	DIRECTION OF MEDIA FLOW		24		
25	Design parameters				
28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT	LBS - fault protection HP - quick closing pilot	42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 18.6 mm
48	CONTROL DEVICES AND ACCESSORIES				
49	TYPE OF CONTROL	hydro pneumatic	60	TIME TO CLOSE VALVE	90 s
50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	90 s
51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	230 VDC
52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6002	64		
71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 18.6 mm	78	TYPE OF CABLE CONNECTION	
75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

This data sheet is used as a reference for purchasing hydro pneumatically controlled ball valves for HPS and KS01 installations. All ball valves defined in the "J171-GOT-LCG-PC-MTO-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: 0003 FOR SHUT-OFF VALVES					
Rev. no.					Rev. no.
1	General information				
2	SITE OF INSTALLATION	HPS	5	QUANTITY	1
3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-HPS-SO-600-SK-6003
4	TAG. NUMBER	HCA33	7		
8	Operating and design parameters				
9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	8.4 MPa(g)
10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	8.4 MPa(g)
12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	underground
14	EX ZONE	2	22	VALVE CONTROL EXTENSION	2300 mm
15	ELEVATION		23	PRESSURE	8.4 MPa(g)
16	DIRECTION OF MEDIA FLOW		24		
25	Design parameters				
28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT	LBS - fault protection	42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 18.6 mm
48	CONTROL DEVICES AND ACCESSORIES				
49	TYPE OF CONTROL	hydro pneumatic	60	TIME TO CLOSE VALVE	90 s
50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	90 s
51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	230 VDC
52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6002	64		
71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 18.6 mm	78	TYPE OF CABLE CONNECTION	
75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

This data sheet is used as a reference for purchasing hydro pneumatically controlled ball valves for HPS and KS01 installations. All ball valves defined in the "J171-GOT-LCG-PC-MTO-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: 0004 FOR SHUT-OFF VALVES					
Rev. no.					Rev. no.
1	General information				
2	SITE OF INSTALLATION	HPS	5	QUANTITY	1
3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-HPS-SO-600-SK-6003
4	TAG. NUMBER	HCA06	7		
8	Operating and design parameters				
9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	7.25 MPa(g)
10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	7.35 MPa(g)
12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	underground
14	EX ZONE	2	22	VALVE CONTROL EXTENSION	2300 mm
15	ELEVATION		23	PRESSURE	7.25 MPa(g)
16	DIRECTION OF MEDIA FLOW		24		
25	Design parameters				
28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT	LBS - fault protection	42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 18.6 mm
48	CONTROL DEVICES AND ACCESSORIES				
49	TYPE OF CONTROL	hydro pneumatic	60	TIME TO CLOSE VALVE	90 s
50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	90 s
51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	230 VDC
52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6002	64		
71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 18.6 mm	78	TYPE OF CABLE CONNECTION	
75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

This data sheet is used as a reference for purchasing hydro pneumatically controlled ball valves for HPS and KS01 installations. All ball valves defined in the "J171-GOT-LCG-PC-MTO-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: 0005 FOR SHUT-OFF VALVES					
Rev. no.					Rev. no.
1	General information				
2	SITE OF INSTALLATION	HPS	5	QUANTITY	3
3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-HPS-SO-600-SK-6003
4	TAG. NUMBER	HCA11, HCA12, HCA31	7		
8	Operating and design parameters				
9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	8.4 MPa(g)
10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	8.4 MPa(g)
12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	underground
14	EX ZONE	2	22	VALVE CONTROL EXTENSION	2300 mm
15	ELEVATION		23	PRESSURE	8.4 MPa(g)
16	DIRECTION OF MEDIA FLOW		24		
25	Design parameters				
28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT		42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 18.6 mm
48	CONTROL DEVICES AND ACCESSORIES				
49	TYPE OF CONTROL	electric - remote and local	60	TIME TO CLOSE VALVE	90 s
50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	90 s
51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	24 VDC
52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6003	64		
71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 18.6 mm	78	TYPE OF CABLE CONNECTION	
75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

This data sheet is used as a reference for purchasing hydro pneumatically controlled ball valves for HPS and KS01 installations. All ball valves defined in the "J171-GOT-LCG-PC-MTO-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: 0006 FOR SHUT-OFF VALVES						
Rev. no.				Rev. no.		
	1	General information				
	2	SITE OF INSTALLATION	HPS	5	QUANTITY	1
	3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-HPS-SO-600-SK-6003
	4	TAG. NUMBER	HCA30	7		
	8	Operating and design parameters				
	9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	7.25 MPa(g)
	10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
	11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m³	19	DESIGN PRESSURE	7.35 MPa(g)
	12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
	13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	underground
	14	EX ZONE	2	22	VALVE CONTROL EXTENSION	2300 mm
	15	ELEVATION		23	PRESSURE	7.25 MPa(g)
	16	DIRECTION OF MEDIA FLOW		24		
	25	Design parameters				
	28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
	29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
	30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
	31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
	32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT		42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
	33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
	34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
	35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 18.6 mm
	48	CONTROL DEVICES AND ACCESSORIES				
	49	TYPE OF CONTROL	electric - remote and local	60	TIME TO CLOSE VALVE	90 s
	50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	90 s
	51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	24 VDC
	52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
	53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6003	64		
	71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
	72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
	73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
	74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 18.6 mm	78	TYPE OF CABLE CONNECTION	
	75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
	80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
	81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
	82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
	83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
	84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
	85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
	86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
	87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

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

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DATA SHEET NUMBER: 0007 FOR SHUT-OFF VALVES						
Rev. no.	Rev. no.					
	1	General information				
	2	SITE OF INSTALLATION	HPS	5	QUANTITY	1
	3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-HPS-SO-600-SK-6003
	4	TAG. NUMBER	HCA109	7		
	8	Operating and design parameters				
	9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	7.25 MPa(g)
	10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
	11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	7.35 MPa(g)
	12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
	13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	aboveground
	14	EX ZONE	2	22	VALVE CONTROL EXTENSION	
	15	ELEVATION		23	PRESSURE	7.25 MPa(g)
	16	DIRECTION OF MEDIA FLOW		24		
	25	Design parameters				
	28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
	29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
	30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
	31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
	32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT		42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
	33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
	34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
	35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 18.6 mm
	48	CONTROL DEVICES AND ACCESSORIES				
	49	TYPE OF CONTROL	electric - remote and local	60	TIME TO CLOSE VALVE	90 s
	50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	90 s
	51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	24 VDC
	52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
	53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6003	64		
	71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
	72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
	73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
	74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 18.6 mm	78	TYPE OF CABLE CONNECTION	
	75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
	80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
	81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
	82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
	83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
	84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
	85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
	86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
	87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

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

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DATA SHEET NUMBER: 0008 FOR SHUT-OFF VALVES						
Rev. no.				Rev. no.		
	1	General information				
	2	SITE OF INSTALLATION	HPS	5	QUANTITY	1
	3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-HPS-SO-600-SK-6003
	4	TAG. NUMBER	GA01	7		
	8	Operating and design parameters				
	9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	7.25 MPa
	10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
	11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	7.35 MPa(g)
	12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
	13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	aboveground
	14	EX ZONE	2	22	VALVE CONTROL EXTENSION	
	15	ELEVATION		23	PRESSURE	7.25 MPa
	16	DIRECTION OF MEDIA FLOW		24		
	25	Design parameters				
	28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
	29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
	30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
	31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
	32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT		42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
	33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
	34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
	35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 18.6 mm
	48	CONTROL DEVICES AND ACCESSORIES				
	49	TYPE OF CONTROL	electric - local	60	TIME TO CLOSE VALVE	
	50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	
	51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	24 VDC
	52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
	53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6003	64		
	71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
	72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
	73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
	74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 18.6 mm	78	TYPE OF CABLE CONNECTION	
	75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
	80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
	81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
	82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
	83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
	84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
	85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
	86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
	87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

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

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DATA SHEET NUMBER: 0009 FOR SHUT-OFF VALVES					
Rev. no.					Rev. no.
1	General information				
2	SITE OF INSTALLATION	HPS	5	QUANTITY	1
3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-HPS-SO-600-SK-6003
4	TAG. NUMBER	GA20	7		
8	Operating and design parameters				
9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	8.4 MPa(g)
10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	8.4 MPa(g)
12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	aboveground
14	EX ZONE	2	22	VALVE CONTROL EXTENSION	
15	ELEVATION		23	PRESSURE	8.4 MPa(g)
16	DIRECTION OF MEDIA FLOW		24		
25	Design parameters				
28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT		42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 18.6 mm
48	CONTROL DEVICES AND ACCESSORIES				
49	TYPE OF CONTROL	electric - local	60	TIME TO CLOSE VALVE	
50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	
51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	24 VDC
52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6003	64		
71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 18.6 mm	78	TYPE OF CABLE CONNECTION	
75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

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

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DATA SHEET NUMBER: 0010 FOR SHUT-OFF VALVES					
Rev. no.					Rev. no.
1	General information				
2	SITE OF INSTALLATION	KS01	5	QUANTITY	1
3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-KSN-SO-571-SK-6003
4	TAG. NUMBER	HA01	7		
8	Operating and design parameters				
9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	7.25 MPa(g)
10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	7.35 MPa(g)
12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	aboveground
14	EX ZONE	2	22	VALVE CONTROL EXTENSION	
15	ELEVATION		23	PRESSURE	7.35 MPa(g)
16	DIRECTION OF MEDIA FLOW		24		
25	Design parameters				
28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT		42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 16.2 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 16.2 mm
48	CONTROL DEVICES AND ACCESSORIES				
49	TYPE OF CONTROL	electric - local	60	TIME TO CLOSE VALVE	
50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	
51	TRANSDUCER SPECIFICATIONS	insulating flange - cathodic protection	62	LIMIT SWITCHES / TYPE / MANUFACTURER	230 VDC
52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-DAT-SK-6003	64		
71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 16.2 mm	78	TYPE OF CABLE CONNECTION	
75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

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

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DATA SHEET NUMBER: 0011 FOR SHUT-OFF VALVES					
Rev. no.					Rev. no.
1	General information				
2	SITE OF INSTALLATION	TU42, TU43, TU44	5	QUANTITY	3
3	TYPE OF SHUT-OFF VALVE	BALL VALVE	6	P&ID	J171-GOT-TU2-SO-540-SK-6003 J171-GOT-TU3-SO-550-SK-6003 J171-GOT-TU4-SO-560-SK-6003
4	TAG. NUMBER	HCA01	7		
8	Operating and design parameters				
9	AMBIENT CONDITIONS AT SITE OF OPERATION	-29°C / +59°C	17	MAX. MEDIA WORKING PRESSURE	7.25 MPa(g)
10	WORKING MEDIUM	natural gas	18	(MAX / MIN) MEDIA WORKING TEMPERATURE	0°C / 40°C
11	MEDIA COMPOSITION	mech. impurity content up to 5 mm max. 100 g/m ³	19	DESIGN PRESSURE	7.35 MPa(g)
12	PIPING CLASS		20	DESIGN TEMPERATURE (MAX. / MIN.)	0°C / 40°C
13	BASIC DESIGN STANDARD		21	LOCATION (ABOVEGROUND/UNDERGROUND)	underground
14	EX ZONE	2	22	VALVE CONTROL EXTENSION	2300 mm
15	ELEVATION		23	PRESSURE	7.35 MPa(g)
16	DIRECTION OF MEDIA FLOW		24		
25	Design parameters				
28	VALVE TYPE / MANUFACTURER / MODEL	BALL VALVE	36	BASE PLATE / SUPPORT	yes
29	FIRE RATING	2	37	VENTING, BLOW-DOWN	yes
30	NOMINAL DIAMETER (DN)	1000	40	MAX. VALVE STROKE	
31	TYPE / SIZE OF PIPE CONNECTION	DN 1000	41	CORROSION PROTECTION	J171-GOT-LCG-PC-SPC-SK-6001
32	SPECIFICATIONS FOR LOCKING / BLOCK. EQUIPMENT	LBS - fault protection	42	SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001
33	SEAL SPECIFICATIONS	primary secondary tertiary per J171-GOT-LCG-PC-SPC-SK-6001	43	CLASSIFICATION OF WELDED CONNECTION	1
34	TYPE / SIZE OF PIPE CONNECTION	pipe / Ø 1016 x 16.2 mm	44	CLASSIFICATION OF FLANGED CONNECTION	
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	Ø 1016 x 16.2 mm
48	CONTROL DEVICES AND ACCESSORIES				
49	TYPE OF CONTROL	hydro pneumatic	60	TIME TO CLOSE VALVE	
50	CONTROL DEVICE PRODUCTION MODEL		61	TIME TO OPEN VALVE	
51	TRANSDUCER SPECIFICATIONS		62	LIMIT SWITCHES / TYPE / MANUFACTURER	230 VDC
52	CONTROL DEVICE SPECIFICATIONS	J171-GOT-LCG-PC-SPC-SK-6001	63	VALVE CONNECTION SPECIFICATIONS	
53	CONTROL DEVICE DATA SHEET	J171-GOT-LCG-PC-SPC-SK-6002	64		
71	DIMENSIONS, SIZE, WEIGHT, ELECTRICAL WIRING SPECIFICATIONS				
72	VALVE LENGTH (mm)		76	VALVE WEIGHT	
73	VALVE HEIGHT (mm)		77	WEIGHT OF VALVE / TRANSDUCER / ACTUATOR	
74	WALL THICKNESS AT POINT OF CONNECTION (WELDED EDGE)	Ø 1016 x 16.2 mm	78	TYPE OF CABLE CONNECTION	
75	SUPPORT DIMENSIONS		79	SIZE OF CABLE CONNECTION	
80	REQUIREMENTS FOR MATERIALS, TESTING AND DOCUMENTATION				
81	VALVE BODY MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	89	LEAK TEST	J171-GOT-LCG-PC-SPC-SK-6001
82	BALL MATERIAL AND SURFACE FINISH	J171-GOT-LCG-PC-SPC-SK-6001	90	VALVE BODY PRESSURE TEST	J171-GOT-LCG-PC-SPC-SK-6001
83	MATERIAL OF WELDED SPACERS	J171-GOT-LCG-PC-SPC-SK-6001	91	LEAK TEST REGULATION	J171-GOT-LCG-PC-SPC-SK-6001
84	VALVE CONTROL SHAFT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	92	FIRE TESTING	J171-GOT-LCG-PC-SPC-SK-6001
85	MATERIAL OF THREADED FASTENERS	J171-GOT-LCG-PC-SPC-SK-6001	93	CHECK VIA TECHNICAL INSPECTION / REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
86	VALVE SEAT MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	94	MATERIAL CERTIFICATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001
87	SEAL MATERIAL	J171-GOT-LCG-PC-SPC-SK-6001	95	DOCUMENTATION REQUIREMENTS	J171-GOT-LCG-PC-SPC-SK-6001

NOTES:

This data sheet is used as a reference for purchasing hydro pneumatically controlled ball valves for HPS and KS01 installations. All ball valves defined in the "J171-GOT-LCG-PC-MTO-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.