

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 / ϕ 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION		
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	ϕ 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)	ϕ 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:

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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/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		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 / ϕ 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION		
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	ϕ 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)	ϕ 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 / ϕ 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION		
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	ϕ 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)	ϕ 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 / ϕ 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION		
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	ϕ 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)	ϕ 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 / ϕ 1016 x 18.6 mm	44	CLASSIFICATION OF FLANGED CONNECTION		
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	ϕ 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)	ϕ 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 / ϕ 1016 x 16.2 mm	44	CLASSIFICATION OF FLANGED CONNECTION		
35	REQUIREMENTS FOR MANUAL CONTROL	yes	45	WELD SPACERS	ϕ 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)	ϕ 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.