

eustream, a.s.



Cross-Connecting VTL Gas Pipeline Poland – Slovakia

Dátový list - Gulove ventily nad DN300- EN

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Revision

2	25.09.2018	APV - modification of name document; splitting of valves - plug and ball valve	Team	P. Pěník	V. Foltín
1	14.09.2018	APV	Team	P. Pěník	V. Foltín
0	23.08.2018	IFA	Team	P. Pěník	V. Foltín
Rev.	Date	Issued, Modification	Prepared	Checked	Approved

Content Contributed by

Company		Remarks
ILF Beratende Ingenieure GmbH		
GasOil Technology a. s.		

Data sheet Nr. : 0002 for Ball Valve						
Rev. Nr.				Rev. Nr.		
	1	GENERAL INFORMATION				
	2	LOCATION of INSTALATION	CS01 Veľké Kapušany	5	QUANTITY	3
	3	TYP of VALVE	Ball Valve	6	P&ID	J171-ILF-KSN-PR-PID-SK-0001-PID kompresorovej stanice bez strojov ES4_5
	4	TAG. NR.	4_2_L 4_3_L 4_4_L	7	SPECIFICATION	J171-GOT-KSN-PC-SPC-SK-0001 eustream internal regulation TA_W_24_02_15
	8	OPERATION AND DESIGN PARAMETERS				
	9	AMBIENT CONDITIONS	-29°C / +59°C	17	MAX. OPERATING PRESSURE	7,35 MPa(g)
	10	WORKING MEDIUM	Natural Gas	18	OPERATING TEMPERATURE (MIN / MAX)	0°C / 40°C
	11	MEDIUM COMPOSITION	Refer to J171-GOT-KSN-PC-SPC-SK Chapter 7.1 - solid particle max. 5 mm - max 1000µm³	19	DESIGN PRESSURE	8,00 MPa(g)
	12	PIPING CLASS	600C	20	DESIGN TEMPERATURE (MIN / MAX)	-29°C / +59°C
	13	DESIGN STANDARD	API6D / ISO14313 comply with EN 14141	21	INSTALATION (ABOVE / BELOW GROUND)	below ground with stem extension
	14	EX-ZONA	2	22	STEM EXTENSION OF VALVE	2500 mm
	15	SITE ALTITUDE	101,5 m.n.m	23	PRESSURE (G)	7,35 MPa(g)
	16	DIRECTION OF FLOW		24		
	25	CONSTRUCTION REQUIREMENTS				
	28	MANUFACTURING TYP / MANUFACTURER / MODEL	Ball Valve	36	SUPPORT	Yes
	29	FIRE FIGHTING REQUIREMENTS	according ISO 10497; API 6FA; API 607	37	VENTING / DRAINING	Yes
	30	NOMINAL DIAMETER (DN)	900	40	STROKE OF VALVE	
	31	TYP / DIMENSION OF PIPING CONNECTION	welded, Ø 914,4 x 20 mm	41	CORROSION PROTECTION	J171-GOT-KSN-PC-SPC-SK-0001
	32	REQUIREMENTS ON THE FS AND LOCK EQUIPMENTS		42	TREATMENT AND FINNISHING	J171-GOT-KSN-PC-SPC-SK-0001
	33	SEAL REQUIREMENTS	primary secondary tertiary according of document J171-GOT-KSN-PC- SPC-SK-0001	43	CLASIFICATION OF WELDING	1
	34	MATERIAL OF PIPE CONNECTION	pipe material L415ME, ø 914,4 x 20 mm	44	CLASIFICATION OF FLANGE CONNECTION	N/A
	35	LOCAL REMOTE CONTROL	Yes	45	WELDING PUP-PIECES	Ø 914,4 x 20 mm
	48	ACTUATORS AND ACCESORIES				
	49	TYPE OF CONTROL	hydropneumatic (HPO), Remote + local	60	CLOSSING TIME	90 s
	50	TYPE OF MANUFACTURING MODET OF ACTUATOR	1)	61	OPENING TIME	90 s
	51	GEAR BOX SPEC.	1)	62	LIMIT SWITCHES / CONTROL VOLTAGE	O/C - 220V DC
	52	SPECIFICATION OF ACTUATOR	J171-GOT-KSN-PC-SPC-SK-0001	63	SPEC. OF ACTUATOR CONNECTION TO VALVE	EN ISO 5210
	53	TDP / INT.SPECIFICATION OF ACTUATOR/ /	eustream internal regulation "TA_W_29_02_15"	64	H - L PILOT	No
	71	DIMENSIONS, MASS, SPEC. OF ELECTR. CONNECTION				
	72	LENGHT OF VALVE(mm)	1)	76	MASS OF VALVE	1)
	73	HEIGHT OF VALVE (mm)	1)	77	MASS OF VALVE INCL: GEAR BOX AND ACTUATOR	1)
	74	PIPING PARAMETERS IN THE CONNECTION POINT	Ø 914,4 x 20 mm	78	TYP CABLE CONNECTION	1)
	75	SUPPORT DIMENSIONS	1)	79	REQUIREMENTS ON THE CABLE CONNECTIONS (CABLE TYPE)	1)
	80	REQUIREMENTS ON THE MATERIAL, TESTING, DOCUMENTATION				
	81	MATERIAL OF BODY	Forged steel comply with ISO 14313 /API6D	89	TIGHTNESS TEST	Acc. Annex 1 of TA.W.24.02.15
	82	MATERIAL OF INTERNALS (PLUG)	Forged steel - nickel-plated min.30 µm a max 80 µ	90	PRESSURE TEST OF BODY	Acc. Annex 1 of TA.W.24.02.15
	83	MATERIAL OF PIPE PIECES CONNECTIONS	Acc. T.A.W.24.02.15 Chapter 4.2.4	91	REQUIREMENTS ON THE PRESSURE TEST	J171-GOT-KSN-PC-SPC-SK-0001
	84	SPINDLE MATERIAL	Carbon Steel __ Cr - Ni.	92	FIRE FIGHTING TEST	Acc. ISO 10497
	85	MATERIAL OF NUTS & BOLTS	Acc. STN EN ISO 898; ASTM A193 B7	93	REQUIREMENTS ON THE THIRD PARTY INSPECTION	J171-GOT-KSN-PC-SPC-SK-0001
	86	SEAT MATERIAL	Stainless steel comply with API 6D	94	REQUIREMENTS ON THE MATERIAL CERTIFICATION	Acc. PED 2014/68EU; ATEX 2014/34/EU and J171-GOT-KSN-PC- SPC-SK-0001
	87	MATERIAL OF SEAL	HNBR (Therban); Viton	95	REQUIREMENTS ON THE DOCUMENTATION	J171-GOT-KSN-PC-SPC-SK-0001
	96	REMARKS / REVISION				
	2	25.09.2018	APV	Team	P. Pěnik	V. Foltín
	1	14.09.2018	APV	Team	P. Pěnik	V. Foltín
	0	15.08.2018	IFA	Team	P. Pěnik	V. Foltín
	REV.	DATE	ISSUED, MODIFICATION		PREPARED	CHCEKED
						APPROVED

NOTES:

1) Specified by vendor / manufacturer.

Data sheet Nr. : 0003 for Ball Valve						
Rev. Nr.					Rev. Nr.	
1	GENERAL INFORMATION					
2	LOCATION OF INSTALATION	CS01 Velké Kapušany	5	QUANTITY	3	
3	TYP of VALVE	Ball Valve	6	P&ID	J171-ILF-KSN-PR-PID-SK-0001-PID kompresorovej stanice bez strojov ES4_5	
4	TAG. NR.	7_8_L 7_10_L 7_12_L	7	SPECIFICATION	J171-GOT-KSN-PC-SPC-SK-0001 eustream internal regulation TA_W_24_02_15	
8	OPERATION AND DESIGN PARAMETERS					
9	AMBIENT CONDITIONS	-29°C / +59°C	17	MAX. OPERATING PRESSURE	7.35 MPa(g)	
10	WORKING MEDIUM	Natural Gas	18	OPERATING TEMPERATURE (MIN / MAX)	0°C / 40°C	
11	MEDIUM COMPOSITION	Refer to J171-GOT-KSN-PC-SPC-SK Chapter 7.1 - solid particle max. 5 mm - max. 100g/m ³	19	DESIGN PRESSURE	8.00 MPa(g)	
12	PIPING CLASS	600C	20	DESIGN TEMPERATURE (MIN / MAX)	-29°C / +59°C	
13	DESIGN STANDARD	API6D / ISO14313 comply with EN 14141	21	INSTALATION (ABOVE / BELOW GROUND)	above ground	
14	EX-ZONA	2	22	STEM EXTENSION OF VALVE		
15	SITE ALTITUDE	101,5 m.n.m	23	PRESSURE (G)	7.35 MPa(g)	
16	DIRECTION OF FLOW		24			
25	CONSTRUCTION REQUIREMENTS					
28	MANUFACTURING TYP / MANUFACTURER / MODEL	Ball Valve	36	SUPPORT	Yes	
29	FIRE FIGHTING REQUIREMENTS	according ISO 10497; API 6FA; API 607	37	VENTING / DRAINING	Yes	
30	NOMINAL DIAMETER (DN)	700	40	STROKE OF VALVE		
31	TYP / DIMENSION OF PIPING CONNECTION	welded, Ø 711,2 x 16 mm	41	CORROSION PROTECTION	J171-GOT-KSN-PC-SPC-SK-0001	
32	REQUIREMENTS ON THE FS AND LOCK EQUIPMENTS		42	TREATMENT AND FINNISHING	J171-GOT-KSN-PC-SPC-SK-0001	
33	SEAL REQUIREMENTS	primary secondary tertiary according of document J171-GOT-KSN-PC- SPC-SK-0001	43	CLASIFICATION OF WELDING	1	
34	MATERIAL OF PIPE CONNECTION	pipe material L415ME, Ø 711,2 x 16 mm	44	CLASIFICATION OF FLANGE CONNECTION	N/A	
35	LOCAL REMOTE CONTROL	Yes	45	WELDING PUP-PIECES	Ø 711,2 x 16 mm	
48	ACTUATORS AND ACCESORIES					
49	TYPE OF CONTROL	hydropneumatic (HPO), Remote + local	60	CLOSSING TIME	90 s	
50	TYPE OF MANUFACTURING MODET OF ACTUATOR	1)	61	OPENING TIME	90 s	
51	GEAR BOX SPEC.	1)	62	LIMIT SWITCHES / CONTROL VOLTAGE	O/C - 220V DC	
52	SPECIFICATION OF ACTUATOR	J171-GOT-KSN-PC-SPC-SK-0001	63	SPEC. OF ACTUATOR CONNECTION TO VALVE	EN ISO 5210	
53	TDP / INT.SPECIFICATION OF ACTUATOR/ /	eustream internal regulation "TA_W_29_02_15"	64	H - L PILOT	No	
71	DIMENSIONS, MASS, SPEC. OF ELECTR. CONNECTION					
72	LENGHT OF VALVE(mm)	1)	76	MASS OF VALVE	1)	
73	HEIGHT OF VALVE (mm)	1)	77	MASS OF VALVE INCL: GEAR BOX AND ACTUATOR	1)	
74	PIPING PARAMETERS IN THE CONNECTION POINT	Ø 711,2 x 16 mm	78	TYP CABLE CONNECTION	1)	
75	SUPPORT DIMENSIONS	1)	79	REQUIREMENTS ON THE CABLE CONNECTIONS (CABLE TYPE)	1)	
80	REQUIREMENTS ON THE MATERIAL, TESTING, DOCUMENTATION					
81	MATERIAL OF BODY	Forged steel comply with ISO 14313 /API6D	89	TIGHTNESS TEST	Acc. Annex 1 of T.A.W.24.02.15	
82	MATERIAL OF INTERNALS (PLUG)	Forged steel - nickel-plated min.30 µm a max 80 µ	90	PRESSURE TEST OF BODY	Acc. Annex 1 of T.A.W.24.02.15	
83	MATERIAL OF PIPE PIECES CONNECTIONS	Acc. TA.W.24.02.15 Chapter 4.2.4	91	REQUIREMENTS ON THE PRESSURE TEST	J171-GOT-KSN-PC-SPC-SK-0001	
84	SPINDLE MATERIAL	Carbon Steel __, Cr - Ni.	92	FIRE FIGHTING TEST	Acc. ISO 10497	
85	MATERIAL OF NUTS & BOLTS	Acc. STN EN ISO 898; ASTM A193 B7	93	REQUIREMENTS ON THE THIRD PARTY INSPECTION	J171-GOT-KSN-PC-SPC-SK-0001	
86	SEAT MATERIAL	Stainless steel comply with API 6D	94	REQUIREMENTS ON THE MATERIAL CERTIFICATION	Acc. PED 2014/68EU; ATEX 2014/34/EU and J171-GOT-KSN-PC- SPC-SK-0001	
87	MATERIAL OF SEAL	HNBR (Therban); Viton	95	REQUIREMENTS ON THE DOCUMENTATION	J171-GOT-KSN-PC-SPC-SK-0001	
96	REMARKS / REVISION					
	2	25.09.2018	APV	Team	P. Pénik	V. Foltín
	1	14.09.2018	APV	Team	P. Pénik	V. Foltín
	0	15.08.2018	IFA	Team	P. Pénik	V. Foltín
	REV.	DATE	ISSUED, MODIFICATION	PREPARED	CHCEKED	APPROVED

NOTES:

1) Specified by vendor / manufacturer.

Data sheet Nr. : 0004 for Ball Valve						
Rev. Nr.					Rev. Nr.	
1	GENERAL INFORMATION					
2	LOCATION OF INSTALATION	CS01 Velké Kapušany	5	QUANTITY	1	
3	TYP of VALVE	Ball Valve	6	P&ID	J171-ILF-KSN-PR-PID-SK-0001-PID kompresorovej stanice bez strojov ES4_5	
4	TAG. NR.	10_1_L	7	SPECIFICATION	J171-GOT-KSN-PC-SPC-SK-0001 eustream internal regulation TA_W_24_02_15	
8	OPERATION AND DESIGN PARAMETERS					
9	AMBIENT CONDITIONS	-29°C / +59°C	17	MAX. OPERATING PRESSURE	7.35 MPa(g)	
10	WORKING MEDIUM	Natural Gas	18	OPERATING TEMPERATURE (MIN / MAX)	0°C / 40°C	
11	MEDIUM COMPOSITION	Refer to J171-GOT-KSN-PC-SPC-SK Chapter 7.1 - solid particle max. 5 mm - max. 100g/m ³	19	DESIGN PRESSURE	8.00 MPa(g)	
12	PIPING CLASS	600C	20	DESIGN TEMPERATURE (MIN / MAX)	-29°C / +59°C	
13	DESIGN STANDARD	API6D / ISO14313 comply with EN 14141	21	INSTALATION (ABOVE / BELOW GROUND)	above ground	
14	EX-ZONA	2	22	STEM EXTENSION OF VALVE		
15	SITE ALTITUDE	101,5 m.n.m	23	PRESSURE (G)	7.35 MPa(g)	
16	DIRECTION OF FLOW		24			
25	CONSTRUCTION REQUIREMENTS					
28	MANUFACTURING TYP / MANUFACTURER / MODEL	Ball Valve	36	SUPPORT	Yes	
29	FIRE FIGHTING REQUIREMENTS	Acc. ISO 10497; API 6FA; API 607	37	VENTING / DRAINING	Yes	
30	NOMINAL DIAMETER (DN)	400	40	STROKE OF VALVE		
31	TYP / DIMENSION OF PIPING CONNECTION	welded, Ø 406,4 x 11 mm	41	CORROSION PROTECTION	J171-GOT-KSN-PC-SPC-SK-0001	
32	REQUIREMENTS ON THE FS AND LOCK EQUIPMENTS		42	TREATMENT AND FINNISHING	J171-GOT-KSN-PC-SPC-SK-0001	
33	SEAL REQUIREMENTS	primary secondary tertiary according of document J171-GOT-KSN-PC- SPC-SK-0001	43	CLASIFICATION OF WELDING	1	
34	MATERIAL OF PIPE CONNECTION	pipe material L360ME, Ø 406,4 x 11 mm	44	CLASIFICATION OF FLANGE CONNECTION	N/A	
35	LOCAL REMOTE CONTROL	Yes	45	WELDING PUP-PIECES	Ø 406,4 x 11 mm	
48	ACTUATORS AND ACCESORIES					
49	TYPE OF CONTROL	hydropneumatic (HPO), Remote + local	60	CLOSSING TIME	60 s	
50	TYPE OF MANUFACTURING MODET OF ACTUATOR	1)	61	OPENING TIME	60 s	
51	GEAR BOX SPEC.	1)	62	LIMIT SWITCHES / CONTROL VOLTAGE	O/C - 220V DC	
52	SPECIFICATION OF ACTUATOR	J171-GOT-KSN-PC-SPC-SK-0001	63	SPEC. OF ACTUATOR CONNECTION TO VALVE	EN ISO 5210	
53	TDP / INT.SPECIFICATION OF ACTUATOR/ /	eustream internal regulation "TA_W_29_02_15"	64	H - L PILOT	High Pilot with set point 5,5 MPa	
71	DIMENSIONS, MASS, SPEC. OF ELECTR. CONNECTION					
72	LENGHT OF VALVE(mm)	1)	76	MASS OF VALVE	1)	
73	HEIGHT OF VALVE (mm)	1)	77	MASS OF VALVE INCL: GEAR BOX AND ACTUATOR	1)	
74	PIPING PARAMETERS IN THE CONNECTION POINT	Ø 406,4 x 11 mm	78	TYP CABLE CONNECTION	1)	
75	SUPPORT DIMENSIONS	1)	79	REQUIREMENTS ON THE CABLE CONNECTIONS (CABLE TYPE)	1)	
80	REQUIREMENTS ON THE MATERIAL, TESTING, DOCUMENTATION					
81	MATERIAL OF BODY	Forged steel comply with ISO 14313 /API6D	89	TIGHTNESS TEST	Acc. Annex 1 of TA.W.24.02.15	
82	MATERIAL OF INTERNALS (PLUG)	Forged steel - nickel-plated min.30 µm a max 80 µ	90	PRESSURE TEST OF BODY	Acc. Annex 1 of TA.W.24.02.15	
83	MATERIAL OF PIPE PIECES CONNECTIONS	Acc. TA.W.24.02.15 Chapter 4.2.4	91	REQUIREMENTS ON THE PRESSURE TEST	J171-GOT-KSN-PC-SPC-SK-0001	
84	SPINDLE MATERIAL	Carbon Steel _ Cr - Ni.	92	FIRE FIGHTING TEST	Acc. ISO 10497	
85	MATERIAL OF NUTS & BOLTS	Acc. STN EN ISO 898; ASTM A193 B7	93	REQUIREMENTS ON THE THIRD PARTY INSPECTION	J171-GOT-KSN-PC-SPC-SK-0001	
86	SEAT MATERIAL	Stainless steel comply with API 6D	94	REQUIREMENTS ON THE MATERIAL CERTIFICATION	Acc. PED 2014/68EU; ATEX 2014/34/EU and J171-GOT-KSN-PC- SPC-SK-0001	
87	MATERIAL OF SEAL	HNBR (Therban); Vilon	95	REQUIREMENTS ON THE DOCUMENTATION	J171-GOT-KSN-PC-SPC-SK-0001	
96	REMARKS / REVISION					
2	25.09.2018	APV		Team	P. Pénik	V. Foltín
1	14.09.2018	APV		Team	P. Pénik	V. Foltín
0	15.08.2018	IFA		Team	P. Pénik	V. Foltín
REV.	DATE	ISSUED, MODIFICATION		PREPARED	CHCEKED	APPROVED

NOTES:

1) Specified by vendor / manufacturer.

NOTES:

1) Specified by vendor / manufacturer.

Data sheet Nr. : 0006 for Ball Valve						
Rev. Nr.					Rev. Nr.	
	1	GENERAL INFORMATION				
	2	LOCATION of INSTALATION	CS01 Veľké Kapušany	5	QUANTITY	1
	3	TYP of VALVE	Ball Valve	6	P&ID	J171-ILF-KSN-PR-PID-SK-0001-PID kompresorovej stanice bez strojov ES4_5
	4	TAG. NR.	10_2_L	7	SPECIFICATION	J171-GOT-KSN-PC-SPC-SK-0001 eustream internal regulation TA_W_24_02_15
	8	OPERATION AND DESIGN PARAMETERS				
	9	AMBIENT CONDITIONS	-29°C / +59°C	17	MAX. OPERATING PRESSURE	7,35 MPa(g)
	10	WORKING MEDIUM	Natural Gas	18	OPERATING TEMPERATURE (MIN / MAX)	0°C / 40°C
	11	MEDIUM COMPOSITION	Refer to J171-GOT-KSN-PC-SPC-SK Chapter 7.1 - solid particle max. 5 mm - max. 100g/m³	19	DESIGN PRESSURE	8,00 MPa(g)
	12	PIPING CLASS	600C	20	DESIGN TEMPERATURE (MIN / MAX)	-29°C / +59°C
	13	DESIGN STANDARD	API6D / ISO14313 comply with EN 14141	21	INSTALATION (ABOVE / BELOW GROUND)	above ground
	14	EX-ZONA	2	22	STEM EXTENSION OF VALVE	
	15	SITE ALTITUDE	101,5 m. n. m.	23	PRESSURE (G)	7,35 MPa(g)
	16	DIRECTION OF FLOW		24		
	25	CONSTRUCTION REQUIREMENTS				
	28	MANUFACTURING TYP / MANUFACTURER / MODEL	Ball Valve	36	SUPPORT	Yes
	29	FIRE FIGHTING REQUIREMENTS	Acc. ISO 10497; API 6FA; API 607	37	VENTING / DRAINING	Yes
	30	NOMINAL DIAMETER (DN)	400	40	STROKE OF VALVE	
	31	TYP / DIMENSION OF PIPING CONNECTION	welded, Ø 406,4 x 11 mm	41	CORROSION PROTECTION	J171-GOT-KSN-PC-SPC-SK-0001
	32	REQUIREMENTS ON THE FS AND LOCK EQUIPMENTS		42	TREATMENT AND FINNISHING	J171-GOT-KSN-PC-SPC-SK-0001
	33	SEAL REQUIREMENTS	primary secondary tertiary according of document J171-GOT-KSN-PC-SPC-SK-0001	43	CLASIFICATION OF WELDING	1
	34	MATERIAL OF PIPE CONNECTION	pipe material L360ME, Ø 406,4 x 11 mm	44	CLASIFICATION OF FLANGE CONNECTION	N/A
	35	LOCAL REMOTE CONTROL	Yes	45	WELDING PUP-PIECES	Ø 406,4 x 11 mm
	48	ACTUATORS AND ACCESORIES				
	49	TYPE OF CONTROL	electric actuator Remote + local control	60	CLOSSING TIME	60 s
	50	TYPE OF MANUFACTURING MODET OF ACTUATOR	1)	61	OPENING TIME	60 s
	51	GEAR BOX SPEC.	1)	62	LIMIT SWITCHES / CONTROL VOLTAGE	O/C - 220V DC
	52	SPECIFICATION OF ACTUATOR	J171-GOT-KSN-PC-SPC-SK-0001	63	SPEC. OF ACTUATOR CONNECTION TO VALVE / ISOLATION OF THE ACTUATOR FROM VALVE	EN ISO 5210 / Yes
	53	TDP / INT.SPECIFICATION OF ACTUATOR/ /	eustream internal regulation "TA_W_29_02_15"	64	H - L PILOT	-
	71	DIMENSIONS, MASS, SPEC. OF ELECTR. CONNECTION				
	72	LENGHT OF VALVE(mm)	1)	76	MASS OF VALVE	1)
	73	HEIGHT OF VALVE (mm)	1)	77	MASS OF VALVE INCL: GEAR BOX AND ACTUATOR	1)
	74	PIPING PARAMETERS IN THE CONNECTION POINT	Ø 406,4 x 11 mm	78	TYP CABLE CONNECTION	1)
	75	SUPPORT DIMENSIONS	1)	79	REQUIREMENTS ON THE CABLE CONNECTIONS (CABLE TYPE)	1)
	80	REQUIREMENTS ON THE MATERIAL, TESTING, DOCUMENTATION				
	81	MATERIAL OF BODY	Forged steel comply with ISO 14313 /API6D	89	TIGHTNESS TEST	Acc. Annex 1 of TA.W.24.02.15
	82	MATERIAL OF INTERNALS (PLUG)	Forged steel - nickel-plated min.30 µm a max 80 µ	90	PRESSURE TEST OF BODY	Acc. Annex 1 of TA.W.24.02.15
	83	MATERIAL OF PIPE PIECES CONNECTIONS	Acc. TA.W.24.02.15 Chapter 4.2.4	91	REQUIREMENTS ON THE PRESSURE TEST	J171-GOT-KSN-PC-SPC-SK-0001
	84	SPINDLE MATERIAL	Carbon Steel _Cr - Ni	92	FIRE FIGHTING TEST	Acc. ISO 10497
	85	MATERIAL OF NUTS & BOLTS	Acc. STN EN ISO 898; ASTM A193 B7	93	REQUIREMENTS ON THE THIRD PARTY INSPECTION	J171-GOT-KSN-PC-SPC-SK-0001
	86	SEAT MATERIAL	Stainless steel comply with API 6D	94	REQUIREMENTS ON THE MATERIAL CERTIFICATION	Acc. PED 2014/68EU; ATEX 2014/34/EU and J171-GOT-KSN-PC-SPC-SK-0001
	87	MATERIAL OF SEAL	HNBR (Therban); Viton	95	REQUIREMENTS ON THE DOCUMENTATION	J171-GOT-KSN-PC-SPC-SK-0001
	96	REMARKS / REVISION				
	2	25.09.2018	APV	Team	P. Pénik	V. Foltín
	1	14.09.2018	APV	Team	P. Pénik	V. Foltín
	0	15.08.2018	IFA	Team	P. Pénik	V. Foltín
	REV.	DATE	ISSUED, MODIFICATION		PREPARED	CHCEKED
						APPROVED

NOTES:

1) Specified by vendor / manufacturer.

Data sheet Nr. : 0008 for Ball Valve									
Rev. Nr.								Rev. Nr.	
	1	GENERAL INFORMATION							
	2	LOCATION of INSTALATION	CS01 Veľké Kapušany		5	QUANTITY	2	J171-ILF-KSN-PR-PID-SK-0001-PID kompresorovej stanice bez strojov ES4_5	
	3	TYP of VALVE	Ball Valve - na odtlakovacie potrubie		6	P&ID	J171-GOT-KSN-PC-SPC-SK-0001 eustream internal regulation TA_W_24_02_15		
	4	TAG. NR.	11_1_HK 11_2_HK		7	SPECIFICATION			
	8	OPERATION AND DESIGN PARAMETERS							
	9	AMBIENT CONDITIONS	-29°C / +59°C		17	MAX. OPERATING PRESSURE	7,35 MPa(g)		
	10	WORKING MEDIUM	Natural Gas		18	OPERATING TEMPERATURE (MIN / MAX)	-50°C / 40°C		
	11	MEDIUM COMPOSITION	Refer to J171-GOT-KSN-PC-SPC-SK Chapter 7.1 - solid particle max. 5 mm - max. 100g/m³		19	DESIGN PRESSURE	8,00 MPa(g)		
	12	PIPING CLASS	600C		20	DESIGN TEMPERATURE (MIN / MAX)	-29°C / +59°C		
	13	DESIGN STANDARD	API6D / ISO14313 comply with EN 14141		21	INSTALATION (ABOVE / BELOW GROUND)	above ground		
	14	EX-ZONA	2		22	STEM EXTENSION OF VALVE			
	15	SITE ALTITUDE	101,5 m. n. m.		23	PRESSURE (G)	7,35 MPa(g)		
	16	DIRECTION OF FLOW			24				
	25	CONSTRUCTION REQUIREMENTS							
	28	MANUFACTURING TYP / MANUFACTURER / MODEL	Ball Valve		36	SUPPORT	Yes		
	29	FIRE FIGHTING REQUIREMENTS	Acc. ISO 10497; API 6FA; API 607		37	VENTING / DRAINING	Yes		
	30	NOMINAL DIAMETER (DN)	300		40	STROKE OF VALVE			
	31	TYP / DIMENSION OF PIPING CONNECTION	welded, Ø 323,9 x 8,8 mm		41	CORROSION PROTECTION	J171-GOT-KSN-PC-SPC-SK-0001- Specifikácia uzatváracích ventilov nad DN300		
	32	REQUIREMENTS ON THE FS AND LOCK EQUIPMENTS			42	TREATMENT AND FINNISHING	J171-GOT-KSN-PC-SPC-SK-0001- Specifikácia uzatváracích ventilov nad DN300		
	33	SEAL REQUIREMENTS	primary secondary tertiary according of document J171-GOT-KSN-PC-SPC-SK-0001		43	CLASIFICATION OF WELDING	1		
	34	MATERIAL OF PIPE CONNECTION	pipe material L360ME, Ø 323,9 x 8,8 mm		44	CLASIFICATION OF FLANGE CONNECTION	N/A		
	35	LOCAL REMOTE CONTROL	Yes		45	WELDING PUP-PIECES	Ø 323,9 x 8,8 mm		
	48	ACTUATORS AND ACCESORIES							
	49	TYPE OF CONTROL	electric actuator local control		60	CLOSSING TIME	20 s		
	50	TYPE OF MANUFACTURING MODET OF ACTUATOR	1)		61	OPENING TIME	20 s		
	51	GEAR BOX SPEC.	1)		62	LIMIT SWITCHES / CONTROL VOLTAGE	O/C - 220V DC		
	52	SPECIFICATION OF ACTUATOR	J171-GOT-KSN-PC-SPC-SK-0001		63	SPEC. OF ACTUATOR CONNECTION TO VALVE / ISOLATION OF THE ACTUATOR FROM VALVE	EN ISO 5210 / Yes		
	53	TDP / INT.SPECIFICATION OF ACTUATOR/ /	eustream internal regulation "TA_W_29_02_15"		64	H - L PILOT	-		
	71	DIMENSIONS, MASS, SPEC. OF ELECTR. CONNECTION							
	72	LENGHT OF VALVE(mm)	1)		76	MASS OF VALVE	1)		
	73	HEIGHT OF VALVE (mm)	1)		77	MASS OF VALVE INCL.: GEAR BOX AND ACTUATOR	1)		
	74	PIPING PARAMETERS IN THE CONNECTION POINT	Ø 323,9 x 8,8 mm L360NE		78	TYP CABLE CONNECTION	1)		
	75	SUPPORT DIMENSIONS	1)		79	REQUIREMENTS ON THE CABLE CONNECTIONS (CABLE TYPE)	1)		
	80	REQUIREMENTS ON THE MATERIAL, TESTING, DOCUMENTATION							
	81	MATERIAL OF BODY	Forged steel comply with ISO 14313 /API6D		89	TIGHTNESS TEST	Acc. Annex 1 of TA.W.24.02.15		
	82	MATERIAL OF INTERNALS (PLUG)	Forged steel - nickel-plated min.30 µm a max 80 µ		90	PRESSURE TEST OF BODY	Acc. Annex 1 of TA.W.24.02.15		
	83	MATERIAL OF PIPE PIECES CONNECTIONS	Acc. TA.W.24.02.15 Chapter 4.2.4		91	REQUIREMENTS ON THE PRESSURE TEST	J171-GOT-KSN-PC-SPC-SK-0001		
	84	SPINDLE MATERIAL	Carbon Steel _ Cr - Ni.		92	FIRE FIGHTING TEST	Acc. ISO 10497		
	85	MATERIAL OF NUTS & BOLTS	Acc. STN EN ISO 898; ASTM A193 B7		93	REQUIREMENTS ON THE THIRD PARTY INSPECTION	J171-GOT-KSN-PC-SPC-SK-0001		
	86	SEAT MATERIAL	Stainless steel comply with API 6D		94	REQUIREMENTS ON THE MATERIAL CERTIFICATION	Acc. PED 2014/68EU; ATEX 2014/34/EU and J171-GOT-KSN-PC- SPC-SK-0001		
	87	MATERIAL OF SEAL	HNBR (Therban); Viton		95	REQUIREMENTS ON THE DOCUMENTATION	J171-GOT-KSN-PC-SPC-SK-0001		
	96	REMARKS / REVISION							
	2	25.09.2018	APV			Team	P. Pénik	V. Foltín	
	1	14.09.2018	APV			Team	P. Pénik	V. Foltín	
	0	15.08.2018	IFA			Team	P. Pénik	V. Foltín	
	REV.	DATE	ISSUED, MODIFICATION			PREPARED	CHCEKED	APPROVED	

NOTES:

1) Specified by vendor / manufacturer.

Data sheet Nr. : 0009 for Ball Valve						
Rev. Nr.					Rev. Nr.	
1	GENERAL INFORMATION					
2	LOCATION OF INSTALATION	CS01 Velké Kapušany		5	QUANTITY	2
3	TYP of VALVE	Ball Valve		6	P&ID	J171-ILF-KSN-PR-PID-SK-0001-PID kompressorovej stanice bez strojov ES4_5
4	TAG. NR.	7_21_FK 7_22_FK		7	SPECIFICATION	J171-GOT-KSN-PC-SPC-SK-0001 eustream internal regulation TA_W_24_02_15
8	OPERATION AND DESIGN PARAMETERS					
9	AMBIENT CONDITIONS	-29°C / +59°C		17	MAX. OPERATING PRESSURE	7,35 MPa(g)
10	WORKING MEDIUM	Natural Gas		18	OPERATING TEMPERATURE (MIN / MAX)	0°C / 40°C
11	MEDIUM COMPOSITION	Refer to J171-GOT-KSN-PC-SPC- SK Chapter 7.1 - solid particle max. 5 mm - max. 100g/m ³		19	DESIGN PRESSURE	8,00 MPa(g)
12	PIPING CLASS	600C		20	DESIGN TEMPERATURE (MIN./ MAX)	-29°C / +59°C
13	DESIGN STANDARD	API6D / ISO14313 comply with EN 14141		21	INSTALATION (ABOVE / BELOW GROUND)	above ground
14	EX-ZONA	2		22	STEM EXTENSION OF VALVE	
15	SITE ALTITUDE	101,5 m. n. m.		23	PRESSURE (G)	7,35 MPa(g)
16	DIRECTION OF FLOW			24		
25	CONSTRUCTION REQUIREMENTS					
28	MANUFACTURING TYP / MANUFACTURER / MODEL	Ball Valve		36	SUPPORT	Yes
29	FIRE FIGHTING REQUIREMENTS	Acc. ISO 10497; API 6FA; API 607		37	VENTING / DRAINING	Yes
30	NOMINAL DIAMETER (DN)	700		40	STROKE OF VALVE	
31	TYP / DIMENSION OF PIPING CONNECTION	welded, Ø 711,2 x 16 mm		41	CORROSION PROTECTION	J171-GOT-KSN-PC-SPC-SK-0001
32	REQUIREMENTS ON THE FS AND LOCK EQUIPMENTS			42	TREATMENT AND FINNISHING	J171-GOT-KSN-PC-SPC-SK-0001
33	SEAL REQUIREMENTS	primary secondary tertiary according of document J171-GOT- KSN-PC-SPC-SK-0001		43	CLASIFICATION OF WELDING	1
34	TYP / VEĽKOSŤ POTRUBNÉHO PREPOJENIA	pipe / Ø 711,2 x 16 mm		44	CLASIFICATION OF FLANGE CONNECTION	N/A
35	POŽIADAVKY NA RUČNÉ OVLÁDANIE	Yes		45	WELDING PUP-PIECES	Ø 711,2 x 16 mm
48	ACTUATORS AND ACCESORIES					
49	TYPE OF CONTROL	Hand operated		60	CLOSING TIME	N/A
50	TYPE OF MANUFACTURING MODET OF ACTUATOR	1)		61	OPENING TIME	N/A
51	GEAR BOX SPEC.	1)		62	LIMIT SWITCHES / CONTROL VOLTAGE	
52	SPECIFICATION OF ACTUATOR	J171-GOT-KSN-PC-SPC-SK-0001		63	SPEC. OF ACTUATOR CONNECTION TO VALVE	EN ISO 5210
53	TDP / INT.SPECIFICATION OF ACTUATOR/ /	eustream internal regulation "TA_W_29_02_15"		64	H - L PILOT	N/A
71	DIMENSIONS, MASS, SPEC. OF ELECTR. CONNECTION					
72	LENGHT OF VALVE(mm)	1)		76	MASS OF VALVE	1)
73	HEIGHT OF VALVE (mm)	1)		77	MASS OF VALVE INCL. GEAR BOX AND ACTUATOR	1)
74	PIPING PARAMETERS IN THE CONNECTION POINT	Ø 711,2 x 16 mm		78	TYP CABLE CONNECTION	1)
75	SUPPORT DIMENSIONS	1)		79	REQUIREMENTS ON THE CABLE CONNECTIONS (CABLE TYPE)	1)
80	REQUIREMENTS ON THE MATERIAL, TESTING, DOCUMENTATION					
81	MATERIAL OF BODY	Forged steel comply with ISO 14313 /API6D		89	TIGHTNESS TEST	Acc. Annex 1 of TA.W.24.02.15
82	MATERIAL OF INTERNALS (PLUG)	Forged steel - nickel-plated min.30 µm a max 80 µ		90	PRESSURE TEST OF BODY	Acc. Annex 1 of TA.W.24.02.15
83	MATERIAL OF PIPE PIECES CONNECTIONS	Acc. TA.W.24.02.15 Chapter 4.2.4		91	REQUIREMENTS ON THE PRESSURE TEST	J171-GOT-KSN-PC-SPC-SK-0001
84	SPINDLE MATERIAL	Carbon Steel , Cr - Ni.		92	FIRE FIGHTING TEST	Acc. ISO 10497
85	MATERIAL OF NUTS & BOLTS	Acc. STN EN ISO 898; ASTM A193 B7		93	REQUIREMENTS ON THE THIRD PARTY INSPECTION	J171-GOT-KSN-PC-SPC-SK-0001
86	SEAT MATERIAL	Stainless steel comply with API 6D		94	REQUIREMENTS ON THE MATERIAL CERTIFICATION	Acc. PED 2014/68EU; ATEX 2014/34/EU and J171-GOT-KSN-PC- SPC-SK-0001
87	MATERIAL OF SEAL	HNBR (Therban); Viton		95	REQUIREMENTS ON THE DOCUMENTATION	J171-GOT-KSN-PC-SPC-SK-0001
96	REMARKS / REVISION					
	2	25.09.2018	APV	Team	P. Pénik	V. Foltin
	1	14.09.2018	APV	Team	P. Pénik	V. Foltin
	0	15.08.2018	IFA	Team	P. Pénik	V. Foltin
	REV.	DATE	ISSUED, MODIFICATION	PREPARED	CHCEKED	APPROVED

NOTES:

1) Specified by vendor / manufacturer.