







DOC NUMBER:

569-DB7A-AIC-733-001

CLIENT NUMBER: PRD-AIC-DSH-074

CLIENT:

TAKEDA/BAXALTA

PROJECT:

BURITI EPCVM PROJECT

DRUG PRODUCT - BMS - DATA SHEET MOTORIZED ON-OFF VALVE

0	27AUG2021	ISSUE FOR CONSTRUCTION	JHA	MAF	RSP
Α	24MAR2021	60% DD ISSUE	JHA	MAF	RSP
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









PRD-AIC-DSH-074 NUMBER: 569-DB7A-AIC-733-001 CLIENT NR:

TITLE

2 de 14 REV.: 0

MOTORIZED ON-OFF VALVE

DOCUMENT REVIEW CONTROL

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REVISION 0 NOTES:

- 1- UPDATE ACCORDING TO P&ID (HVAC AND PROCESS).
- 2- INSERTION OF PROCESS DATA.
- 3- INSERTION OF INSTRUMENT REFERENCE MODELS.

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MOTORIZED ON-OFF VALVE







NUMBER: 569-DB7A-AIC-733-001 CLIENT NR: PRD-AIC-DSH-074

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0

REFERENCE DOCUMENTS

7A-M-0-5-42 P&I DIAGRAM - DRUG PRODUCT - COOLING WATER SYSTEM

7A-M-0-5-43 P&I DIAGRAM - DRUG PRODUCT - CHILLED WATER GENERATION SYSTEM (HVAC)

7A-M-0-5-45 P&I DIAGRAM - DRUG PRODUCT - CHILLED GLYCOL GENERATION SYSTEM

PRD-AIC-LIS-014 DRUG PRODUCT - BMS - INSTRUMENT INDEX

PRD-PIP-TSP-501 PIPE CLASS AND SPECIFICATION - TECHNICAL SPECIFICATION

PRD-AIC-LIS-046 INTEGRATED PROJECT SERVICES - INSTRUMENT SUGGESTED SUPPLIER LIST

GENERAL NOTES

- 1- The identification plates must be supplied in AISI 304 stainless steel, permanently attached to the valve body, with engraving of the respective "TAGs", model, body material, manufacturer, diameter, type, pressure class, Cv and serial number. The serial number of the instrument, when possible, can be recorded on the body itself.
- 2- For all valves must be presented type and degree of protection certificates, both proofs must be explained in the same certificate. Certificates must be issued by INMETRO or accredited body.
- 3- The shutter guides must be made of material of greater hardness than those of the shutters.
- 4- The maximum permissible noise level is 82 dM to 1 m from the valve and must comply with ISA 75.17 and IEC 60534-8-4.
- 5- The manufacturer must send the valve calculation memory.
- 6- The maximum and minimum flow rates to be controlled should be limited to 20% and 85%, respectively, of the available stroke of the control valve.









TITLE

SHEET:

MOTORIZED ON-OFF VALVE

4 de 14

								0		
\Box	1	INSTRUMENT TAG NUMBER				PV-	960059			
	2	SERVICE			BY	PASS CHILLED	WATER - CH-7A-1	/2/3		
ľ	3	P&ID				7A-N	Л-0-5-43			
AL.	4	PIPE LINE	EQUIPMENT NU	JMBER	7A-6"-CW1R-96	0059-CS1-CC	-	•		
SENERAL	5	EQUIPMENT MATERIAL / PIPE				CARBON STEE	L ASTM-A106 Gr.B			
GEV	6	AREA CLASSIFICATION				NOT C	LASSIFIED			
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	NF. NBR IEC 60529	9		
ľ	8	CERTIFICATES				(SEE GENE	RAL NOTES 2)			
ľ	9									
一	10	BODY TYPE			BUTTERFLY					
ľ	11	BODY / CAP MATERIAL			ASTM A-216 Gr. WCB					
¥	12	WEDGE, DISC OR GATE MATER	RIAL + COATING			ASTM A-	216 Gr. WCB			
		SEAT / RINGS MATERIAL + COA				E	PDM			
BODY AND INTERNAL		SHAFT MATERIAL				ASTM A-	216 Gr. WCB			
9		GASKET MATERIAL					PTFE			
₹		CONNECTION TO THE PROCES	S				R - 6", 150#			
8		FLANGE FACE FINISH					REQUIRED			
B		SEAL CLASS					IV			
ŀ	19				- IV					
7		TYPE OF ACTUATOR			SMART / ELETRIC MOTORIZED					
ŀ		OPENING /CLOSING			DIRECT ACTION					
ŀ		FAILURE ACTION			STATIONARY					
ŀ		POWER SUPPLY			3Ø 380Vac / 60Hz					
IUAIOR		HANDWHEEL					YES			
		ELECTRICAL CONNECTION	OI.	JANTITY	1/2" NF		BY MANUF	ACTURER		
		SELF DIAGNOSIS					YES	7.0707.27		
Ĭ		CONFIGURATION					E REMOTE			
ŀ	28	CONTROLATION				LOGAL	LINEWOIL			
ł	29									
ŀ	30									
\dashv		TYPE INDICATION			OPEN / CLOSED					
ŀ		SENSOR TYPE			OPEN / CLOSED INDUCTIVE, WITH LOCAL INDICATION					
ᆽ		CONTACT TYPE			, , , , , , , , , , , , , , , , , , ,					
SWITCH		QUANTITY	TYPE		REED SWITCH 2 SPDT					
S		CAPACITY CONTACT	/ // L		2A @ 250 Vca					
ı		ELECTRICAL CONNECTION					NPT(F)			
٠.:		IDENTIFICATION PLATE					NERAL NOTES 1)			
ACESSOR.		CONFIGURATION MANUAL (HAN	VIDHELD)				YES			
SE	39	CONTIOUNATION MANUAL (NAIS	NDITIEED)				723			
1		FLUID	PHYSICAL STA	TF	CHILLED	WATER	LIQ	חווח		
-		MINIMUM FLOW	NORMAL	MAXIMUM	0,0	45,3	166,6	שוט m³/h		
s l		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	5,5	5,5	5,5	°C		
0			NORMAL	MAXIMUM	0,78	0,76	0,68	bar-g		
١٩		MINIMUM DOWNSTREAM PRESSURE		MAXIMUM	0,50	0,51	0,56	bar-g		
<u>ဒ</u> ္ဓ		DESIGN PRESSURE	DESIGN TEMPE			bar-g	42,5	<u> </u>		
OPERATING CONDITIONS		VISCOSITY @ OPERATING CON			-	1,50				
ZA 7		DENSITY @ OPERATING CONDI				999,99	<u> </u>			
PER		SUSPENDED SOLIDS (%)	TION				NO			
õ		SPECIAL FLUID CONDITIONS								
		M.M. / Z / Cp/Cv			NO / /					
\dashv		MANUFACTURER	/ /							
					ROTORK / AUMA					
52 MODEL IQ (ROTORK)										









TITLE

PRD-AIC-DSH-074

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MOTORIZED ON-OFF VALVE

REV.: 0

								0		
	1	INSTRUMENT TAG NUMBER				XV-	-960004			
	2	SERVICE			COOLI	NG WATER - CO	OLING TOWERS -	CH-7A-1		
	3	P&ID				7A-I	M-0-5-43			
AL.	4	PIPE LINE	EQUIPMENT NUN	1BER	7A-12"-TWR-96	60062-CS1-NI		-		
SENERAL	5	EQUIPMENT MATERIAL / PIPE				CARBON STEE	L ASTM-A106 Gr.E	3		
GE	6	AREA CLASSIFICATION				NOT C	LASSIFIED			
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	NF. NBR IEC 6052	9		
ľ	8	CERTIFICATES				(SEE GENE	ERAL NOTES 2)			
	9									
寸	10	BODY TYPE			BUTTERFLY					
ŀ	11	BODY / CAP MATERIAL				ASTM A-	216 Gr. WCB			
4	12	WEDGE, DISC OR GATE MATER	RIAL + COATING			ASTM A-	216 Gr. WCB			
R.		SEAT / RINGS MATERIAL + COA					PDM			
		SHAFT MATERIAL					216 Gr. WCB			
BODY AND INTERNAL		GASKET MATERIAL					PTFE			
₹∣		CONNECTION TO THE PROCES					R - 12", 150#			
9		FLANGE FACE FINISH					REQUIRED			
ă		SEAL CLASS				7,077				
	19	OLAL OLAGO			IV					
\dashv		TYPE OF ACTUATOR				SMART / FLF	TRIC MOTORIZED			
ŀ		OPENING /CLOSING					T ACTION			
-		FAILURE ACTION					TIONARY			
-		POWER SUPPLY			3Ø 380Vac / 60Hz					
٤		HANDWHEEL					YES			
2		ELECTRICAL CONNECTION	I 0114	NTITY	1/2" NF			ACTURER		
< ⊦		SELF DIAGNOSIS	l QUA	IVIIII	1/2 1/1		YES	ACTORER		
Ä		CONFIGURATION					ND REMOTE			
ŀ		OPENING, CLOSING AND LOCA	LSTOR				ND REMOTE			
ŀ	29	Of ENING, CECSING AND ECCA	23701			LOCALA	ND KEWOTE			
ŀ	30									
-		TYPE INDICATION				OPEN / CLOSED				
ŀ		SENSOR TYPE			1		H LOCAL INDICATION	ON		
핅		CONTACT TYPE								
SWITCH		QUANTITY	TYPE		REED SWITCH					
	J4	QUANTITI	/ // <u> </u>		2 SPDT					
ν	25	CAPACITY CONTACT						SPDT		
S		CAPACITY CONTACT	I			2A @) 250 Vca	SPDT		
	36	ELECTRICAL CONNECTION				2A @) 250 Vca ' NPT(F)	SPDT		
	36 37	ELECTRICAL CONNECTION IDENTIFICATION PLATE	NDHELD)			2A @ 1/2" YES (SEE GE	250 Vca NPT(F) NERAL NOTES 1)	SPDT		
	36 37 38	ELECTRICAL CONNECTION	NDHELD)			2A @ 1/2" YES (SEE GE) 250 Vca ' NPT(F)	SPDT		
	36 37 38 39	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAI	, , , , , , , , , , , , , , , , , , ,	=	CHILLED	2A @ 1/2" YES (SEE GE	250 Vca 'NPT(F) NERAL NOTES 1) YES			
	36 37 38 39 40	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN	PHYSICAL STATE		CHILLED 365.7	2A @ 1/2" YES (SEE GE WATER) 250 Vca ' NPT(F) NERAL NOTES 1) YES	UID		
ACESSOR.	36 37 38 39 40 41	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN FLUID MINIMUM FLOW	PHYSICAL STATE	MAXIMUM	365,7	2A @ 1/2" YES (SEE GE WATER 365,7	2) 250 Vca 2) 250 Vca 2 NPT(F) NERAL NOTES 1) YES LIQ 365,7	UID m³/h		
ACESSOR.	36 37 38 39 40 41 42	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN FLUID MINIMUM FLOW MINIMUM TEMPERATURE	PHYSICAL STATE NORMAL NORMAL	MAXIMUM MAXIMUM	365,7 37	2A @ 1/2" YES (SEE GE WATER 365,7 37	250 Vca 2 NPT(F) NERAL NOTES 1) YES LIQ 365,7 31,5	UID m³/h °C		
ACESSOR.	36 37 38 39 40 41 42 43	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAI FLUID MINIMUM FLOW MINIMUM TEMPERATURE MINIMUM UPSTREAM PRESSURE	PHYSICAL STATE NORMAL NORMAL NORMAL	MAXIMUM MAXIMUM MAXIMUM	365,7 37 1,16	2A @ 1/2" YES (SEE GE WATER 365,7 37 1,19	2, 250 Vca (*NPT(F) (*NERAL NOTES 1) YES LIQ 365,7 31,5 1,20	UID m³/h °C bar-g		
ACESSOR.	36 37 38 39 40 41 42 43 44	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN FLUID MINIMUM FLOW MINIMUM TEMPERATURE MINIMUM UPSTREAM PRESSURE MINIMUM DOWNSTREAM PRESSURE	PHYSICAL STATE NORMAL NORMAL NORMAL NORMAL	MAXIMUM MAXIMUM MAXIMUM MAXIMUM	365,7 37 1,16 0,86	2A @ 1/2" YES (SEE GE WATER 365,7 37 1,19 0,90	2, 250 Vca 1 NPT(F) NERAL NOTES 1) YES LIQ 365,7 31,5 1,20 0,90	UID m³/h °C bar-g bar-g		
ACESSOR.	36 37 38 39 40 41 42 43 44 45	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN FLUID MINIMUM FLOW MINIMUM TEMPERATURE MINIMUM UPSTREAM PRESSURE MINIMUM DOWNSTREAM PRESSURE DESIGN PRESSURE	PHYSICAL STATE NORMAL NORMAL NORMAL NORMAL DESIGN TEMPER	MAXIMUM MAXIMUM MAXIMUM MAXIMUM	365,7 37 1,16 0,86	2A @ 1/2" YES (SEE GE WATER 365,7 37 1,19 0,90 5 bar-g	2 250 Vca 2 NPT(F) NERAL NOTES 1) YES LIQ 365,7 31,5 1,20 0,90 67,0	UID m³/h °C bar-g bar-g		
ACESSOR.	36 37 38 39 40 41 42 43 44 45 46	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN FLUID MINIMUM FLOW MINIMUM TEMPERATURE MINIMUM UPSTREAM PRESSURE MINIMUM DOWNSTREAM PRESSURE DESIGN PRESSURE VISCOSITY @ OPERATING CON	PHYSICAL STATE NORMAL NORMAL NORMAL NORMAL DESIGN TEMPER	MAXIMUM MAXIMUM MAXIMUM MAXIMUM	365,7 37 1,16 0,86	2A @ 1/2" YES (SEE GE WATER 365,7 37 1,19 0,90 6 bar-g 0,69 6	2 250 Vca 2 250 Vca 3 250 Vca 4 NPT(F) NERAL NOTES 1) YES LIQ 365,7 31,5 1,20 0,90 67,0 Cp	UID m³/h °C bar-g bar-g		
ACESSOR.	36 37 38 39 40 41 42 43 44 45 46 47	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN FLUID MINIMUM FLOW MINIMUM TEMPERATURE MINIMUM UPSTREAM PRESSURE MINIMUM DOWNSTREAM PRESSURE DESIGN PRESSURE VISCOSITY @ OPERATING CONDENSITY @ OPERATING CONDEN	PHYSICAL STATE NORMAL NORMAL NORMAL NORMAL DESIGN TEMPER	MAXIMUM MAXIMUM MAXIMUM MAXIMUM	365,7 37 1,16 0,86	2A @ 1/2" YES (SEE GE WATER 365,7 37 1,19 0,90 6 bar-g 993,0 0	2 250 Vca 2 10 NPT(F) NERAL NOTES 1) YES LIQ 365,7 31,5 1,20 0,90 67,0 Cp kg/m³	UID m³/h °C bar-g bar-g		
ACESSOR.	36 37 38 39 40 41 42 43 44 45 46 47 48	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN FLUID MINIMUM FLOW MINIMUM TEMPERATURE MINIMUM UPSTREAM PRESSURE MINIMUM DOWNSTREAM PRESSURE DESIGN PRESSURE VISCOSITY @ OPERATING COND DENSITY @ OPERATING COND SUSPENDED SOLIDS (%)	PHYSICAL STATE NORMAL NORMAL NORMAL NORMAL DESIGN TEMPER	MAXIMUM MAXIMUM MAXIMUM MAXIMUM	365,7 37 1,16 0,86	2A @ 1/2" YES (SEE GE WATER 365,7 37 1,19 0,90 6 bar-g 993,0	2 250 Vca 2 1 NPT(F) NERAL NOTES 1) YES LIQ 365,7 31,5 1,20 0,90 67,0 Cp kg/m³ NO	UID m³/h °C bar-g bar-g		
ACESSOR.	36 37 38 39 40 41 42 43 44 45 46 47 48 49	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN FLUID MINIMUM FLOW MINIMUM TEMPERATURE MINIMUM UPSTREAM PRESSURE MINIMUM DOWNSTREAM PRESSURE DESIGN PRESSURE VISCOSITY @ OPERATING COND DENSITY @ OPERATING COND SUSPENDED SOLIDS (%) SPECIAL FLUID CONDITIONS	PHYSICAL STATE NORMAL NORMAL NORMAL NORMAL DESIGN TEMPER	MAXIMUM MAXIMUM MAXIMUM MAXIMUM	365,7 37 1,16 0,86	2A @ 1/2" YES (SEE GE WATER 365,7 37 1,19 0,90 6 bar-g 993,0	250 Vca 250 Vca 2 NPT(F) NERAL NOTES 1) YES LIQ 365,7 31,5 1,20 0,90 67,0 Cp kg/m³ NO	UID m³/h °C bar-g bar-g		
OPERATING CONDITIONS ACESSOR. S	36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	ELECTRICAL CONNECTION IDENTIFICATION PLATE CONFIGURATION MANUAL (HAN FLUID MINIMUM FLOW MINIMUM TEMPERATURE MINIMUM UPSTREAM PRESSURE MINIMUM DOWNSTREAM PRESSURE DESIGN PRESSURE VISCOSITY @ OPERATING COND DENSITY @ OPERATING COND SUSPENDED SOLIDS (%)	PHYSICAL STATE NORMAL NORMAL NORMAL NORMAL DESIGN TEMPER	MAXIMUM MAXIMUM MAXIMUM MAXIMUM	365,7 37 1,16 0,86	2A @ 1/2" YES (SEE GE WATER 365,7 37 1,19 0,90 6 bar-g 993,0 1	2 250 Vca 2 1 NPT(F) NERAL NOTES 1) YES LIQ 365,7 31,5 1,20 0,90 67,0 Cp kg/m³ NO	UID m³/h °C bar-g bar-g		









TITLE

LIENT NR: PRD-AIC-DSH-0/4

SHEET:

6 de 14

MOTORIZED ON-OFF VALVE

REV.: 0

							0		
1	INSTRUMENT TAG NUMBER				XV	⁷ -960005			
2	SERVICE			COOLIN	IG WATER - CO	OOLING TOWERS -	CH-7A-2		
3	P&ID				7A-	M-0-5-43			
¥ 4	PIPE LINE	EQUIPMENT NUN	1BER	7A-12"-TWR-96	0064-CS1-NI		-		
GENERAL 9	EQUIPMENT MATERIAL / PIPE				CARBON STE	EL ASTM-A106 Gr.E	1		
13 G	AREA CLASSIFICATION				NOT	CLASSIFIED			
7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
8	CERTIFICATES				(SEE GEN	ERAL NOTES 2)			
9									
10	0 BODY TYPE			BUTTERFLY					
1:	1 BODY / CAP MATERIAL				ASTM A	-216 Gr. WCB			
₹ 12	2 WEDGE, DISC OR GATE MATER	RIAL + COATING			ASTM A	-216 Gr. WCB			
₹ 1:	3 SEAT / RINGS MATERIAL + COA	TING			1	EPDM			
22	4 SHAFT MATERIAL				ASTM A	-216 Gr. WCB			
9 1	5 GASKET MATERIAL					PTFE			
₹ 16	6 CONNECTION TO THE PROCES	:S			WAFEI	R - 12", 150#			
0 1	7 FLANGE FACE FINISH					REQUIRED			
_	8 SEAL CLASS					IV			
19	9								
20					SMART / ELE	TRIC MOTORIZED			
	1 OPENING /CLOSING					CT ACTION			
	22 FAILURE ACTION					TIONARY			
	3 POWER SUPPLY			3Ø 380Vac / 60Hz					
	4 HANDWHEEL				35 30	YES			
A 17.	5 ELECTRICAL CONNECTION	I 0114	NTITY	1/2" NP	T/E)	BY MANUF	ACTUDED		
∠ ├		QUA	IN I I I I	1/2 IVF	<i>1 (F)</i>	YES	ACTURER		
	6 SELF DIAGNOSIS		1.0041						
	7 CONFIGURATION			AND REMOTE					
28		LSTOP			LOCAL	AND REMOTE			
29									
30					OPEN	I / CLOSED			
31	2 SENSOR TYPE			//			2 M		
						H LOCAL INDICATION	<i>31</i> 4		
3WITCH		TVDE				D SWITCH	2DDT		
-,		TYPE			2		SPDT		
38						0 250 Vca			
_	6 ELECTRICAL CONNECTION					" NPT(F)			
30 R		ער אידי איז			YES (SEE GE	ENERAL NOTES 1)			
ACESSÓR.	·	NDHELD)				YES			
		DUVEICAL STATE	-	CHILLED	1/ATED	110	LUD		
40		PHYSICAL STATE	1	CHILLED V	1	LIQ	1		
<i>σ</i> 4	·	NORMAL	MAXIMUM	365,7	365,7	365,7	m³/h		
		NORMAL	MAXIMUM	37	37	37	°C		
– ו בּ		NORMAL	MAXIMUM	1,13	1,17	1,17	bar-g		
Š 4			MAXIMUM	0,86	0,89	0,90	bar-g		
^လ မ		DESIGN TEMPER	ATURE	4,6	bar-g	67,0	~C		
₹ 40					0,77	•			
47		ITION			993,0				
d 48				NO					
49	9 SPECIAL FLUID CONDITIONS			NO					
50	0 M.M. / Z / Cp/Cv			/					
51	1 MANUFACTURER				ROTO	RK/AUMA			
52	2 MODEL		IQ (ROTORK)						









TITLE

52 MODEL

7 de 14

								0		
	1	INSTRUMENT TAG NUMBER				XV	/-960006			
	2	SERVICE			COOLIN	G WATER - CO	OOLING TOWERS -	CH-7A-3		
	3	P&ID				7A-	M-0-5-43			
AL.	4	PIPE LINE	EQUIPMENT NUM	BER	7A-12"-TWR-960	066-CS1-NI		-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				CARBON STE	EL ASTM-A106 Gr.B	}		
3E/	6	AREA CLASSIFICATION				NOT	CLASSIFIED			
- H	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 6052	9		
	8	CERTIFICATES					ERAL NOTES 2)			
	9									
+	10	BODY TYPE			BUTTERFLY					
-	11	BODY / CAP MATERIAL				ASTM A	-216 Gr. WCB			
Į	12	WEDGE, DISC OR GATE MATER	RIAL + COATING		ASTM A-216 Gr. WCB					
≥ ∟		SEAT / RINGS MATERIAL + COA					EPDM			
<u> </u>	_	SHAFT MATERIAL					-216 Gr. WCB			
į -	_	GASKET MATERIAL					PTFE			
₹ -	_	CONNECTION TO THE PROCES	S				R - 12", 150#			
3	-	FLANGE FACE FINISH					REQUIRED			
	_	SEAL CLASS					IV			
\vdash	19	02/12 02/100								
-	_	TYPE OF ACTUATOR				SMART / FLF	TRIC MOTORIZED			
\vdash	_	OPENING /CLOSING			DIRECT ACTION					
_	_	FAILURE ACTION				TIONARY				
_ -	_	POWER SUPPLY		3Ø 380Vac / 60Hz						
- 1	_	HANDWHEEL				02 00	YES			
		ELECTRICAL CONNECTION	OUA	VTITY	1/2" NP	T(F)	BY MANUF	ACTURER		
′ ⊢	_	SELF DIAGNOSIS	1 43711	*****	72 74	(,)	YES	7107071271		
	_	CONFIGURATION				LOCAL	AND REMOTE			
_	_	OPENING, CLOSING AND LOCA	I STOP				AND REMOTE			
\vdash	29	07 271770, 02001707170 20071	20707			200/12/	WB KEMOTE			
-	30									
-	-	TYPE INDICATION				OPEN	I / CLOSED			
		SENSOR TYPE			101		H LOCAL INDICATION	ON		
	_	CONTACT TYPE					D SWITCH			
: ⊢	_	QUANTITY	TYPE					SPNT		
	_	CAPACITY CONTACT			2 SPDT 2A @ 250 Vca					
	-									
+	_	ELECTRICAL CONNECTION								
	_	CONFIGURATION MANUAL (HAN	NDHELD)			, LO (OLL GI	YES			
í F	39	OSTATION WANDAL (HAI	· · · · · · · · · · · · · · · · · · ·							
_	_	FLUID	PHYSICAL STATE		CHILLED V	VATER	LIQ	LIID		
\vdash	_	MINIMUM FLOW	NORMAL	MAXIMUM	365,7	365,7	365,7	m³/h		
	_	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	303,7	37	37	°C		
É	_		NORMAL	MAXIMUM	1,13	1,17	1,17	bar-g		
Ė	_	MINIMUM DOWNSTREAM PRESSURE		MAXIMUM	0,86	0,89	0.90			
ξĖ		DESIGN PRESSURE	DESIGN TEMPERA		· · · · · · · · · · · · · · · · · · ·	bar-q	67.0	bar-g °C		
É				TIONE	4,0	0,69				
įĽ	46 VISCOSITY @ OPERATING CONDITION					<u>.</u>				
ì⊢	47 DENSITY @ OPERATING CONDITION				993,0 kg/m³					
	_	SUSPENDED SOLIDS (%)			NO NO					
\vdash	_	SPECIAL FLUID CONDITIONS			NO , ,					
_	_	M.M. / Z / Cp/Cv			//					
L	51	MANUFACTURER		ROTORK/AUMA						









TITLE

SHEET:

8 de 14

								0			
	-	INSTRUMENT TAG NUMBER					9600120				
	2	SERVICE			CHILL	ED WATER - SU	PPLY BUILDING -	CH-7A-1			
	3	P&ID				7A-I	И-0-5-43				
74 F	4	PIPE LINE	EQUIPMENT N	UMBER	7A-10"-CW1S-96	00120-CS1-CC		-			
SENERAL	5	EQUIPMENT MATERIAL / PIPE				CARBON STEE	L ASTM-A106 Gr.E	3			
GE/	6	AREA CLASSIFICATION				NOT C	LASSIFIED				
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	NF. NBR IEC 6052	9			
	8	CERTIFICATES				(SEE GENE	ERAL NOTES 2)				
	9										
	10	BODY TYPE			BUTTERFLY						
	11	BODY / CAP MATERIAL			ASTM A-216 Gr. WCB						
¥	12	WEDGE, DISC OR GATE MATER	PIAL + COATING			ASTM A-	216 Gr. WCB				
<u>ا ۲</u>	13	SEAT / RINGS MATERIAL + COA	TING			E	PDM				
N	14	SHAFT MATERIAL				ASTM A-	216 Gr. WCB				
9	15	GASKET MATERIAL				F	PTFE				
BODY AND INTERNAL	16	CONNECTION TO THE PROCES	S			WAFER	? - 10", 150#				
8	17	FLANGE FACE FINISH				NOT R	REQUIRED				
~ F	18	SEAL CLASS					IV				
	19										
_		TYPE OF ACTUATOR				SMART / ELET	TRIC MOTORIZED				
	21	OPENING /CLOSING	IG /CLOSING				DIRECT ACTION				
	22	FAILURE ACTION			STATIONARY						
	23	POWER SUPPLY			3Ø 380Vac / 60Hz						
		HANDWHEEL					YES				
A P		ELECTRICAL CONNECTION	QL	JANTITY	1/2" NF			FACTURER			
$ true \vdash$		SELF DIAGNOSIS			YES						
		CONFIGURATION					ND REMOTE				
-		OPENING, CLOSING AND LOCAL	LSTOP				ND REMOTE				
-	29		20707			200/12/1	110112111012				
-	30										
-	_	TYPE INDICATION				OPEN	/ CLOSED				
- 1-	_	SENSOR TYPE			1		H LOCAL INDICATI	ON			
	_	CONTACT TYPE			<u>"</u>		SWITCH				
Ŀ ⊦		QUANTITY	TYPE			2		SPDT			
		CAPACITY CONTACT	/ // L				250 Vca				
- 1-		ELECTRICAL CONNECTION					NPT(F)				
-+		IDENTIFICATION PLATE			+		NERAL NOTES 1)				
őΡ	_	CONFIGURATION MANUAL (HAN	NDHELD)			<u> </u>	YES				
SES	39	CONTROL MANOAL (HAI	VDI ILLD)				720				
_		FLUID	PHYSICAL STA	TF	CHILLED	WATER	1.10	UID			
-		MINIMUM FLOW	NORMAL	MAXIMUM	242	242	241	m³/h			
		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	5,5	5,5	5,5	°C			
୦ ⊦			NORMAL	MAXIMUM	0,73	0,72	0,72	bar-g			
Ν		MINIMUM DOWNSTREAM PRESSURE		MAXIMUM	0,49	0,49	0,49	bar-g			
ĝ		DESIGN PRESSURE	DESIGN TEMPE			7 bar-g	42,5				
§		VISCOSITY @ OPERATING CON		· · · · · · · · · · · · ·	2,	1,50					
ZA TI		DENSITY @ OPERATING CONDI			+	999,99					
		SUSPENDED SOLIDS (%)			+		NO				
		SPECIAL FLUID CONDITIONS			+						
-		M.M. / Z / Cp/Cv			NO / /						
-	_	MANUFACTURER			/ / ROTORK / AUMA						
- 1-					ROTORK / AUMA						
IOTE		MODEL		IQ (ROTORK)							









TITLE

NR: PRD-AIC-DSH-074
| SHEET:

9 de 14

MOTORIZED ON-OFF VALVE

REV.: 0

								0			
	1	INSTRUMENT TAG NUMBER				XV	-9600135				
	2	SERVICE			CHILL	ED WATER - SU	JPPLY BUILDING - (CH-7A-2			
	3	P&ID				7A-	-M-0-5-43				
ΆĽ	4	PIPE LINE	EQUIPMENT NU	MBER	7A-10"-CW1S-96	60002-CS1-CC	-	•			
SENERAL	5	EQUIPMENT MATERIAL / PIPE				CARBON STE	EL ASTM-A106 Gr.B				
GE	6	AREA CLASSIFICATION				NOT	CLASSIFIED				
-	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529)			
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 2)				
	9										
	10	BODY TYPE				BUTTERFLY					
	11	BODY / CAP MATERIAL				ASTM A-216 Gr. WCB					
ΑL	12	WEDGE, DISC OR GATE MATER	RIAL + COATING			ASTM A	-216 Gr. WCB				
RN		SEAT / RINGS MATERIAL + COA					EPDM				
NTE		SHAFT MATERIAL				ASTM A	-216 Gr. WCB				
10		GASKET MATERIAL					PTFE				
Ϋ́		CONNECTION TO THE PROCES	S				R - 10", 150#				
BODY AND INTERNAL		FLANGE FACE FINISH					REQUIRED				
В		SEAL CLASS					IV				
	19										
-	_	TYPE OF ACTUATOR				SMART / ELE	TRIC MOTORIZED				
		OPENING /CLOSING					CT ACTION				
		FAILURE ACTION				TIONARY					
		POWER SUPPLY			3Ø 380Vac / 60Hz						
2		HANDWHEEL					YES				
ATC		ELECTRICAL CONNECTION	QU	ANTITY	1/2" NF	PT(F)	BY MANUF	ACTURER			
CTUATOR	_	SELF DIAGNOSIS				- (- /	YES				
Ā		CONFIGURATION				LOCAL	AND REMOTE				
		OPENING, CLOSING AND LOCA	L STOP				AND REMOTE				
	29	,									
	30										
	_	TYPE INDICATION			OPEN / CLOSED						
	32	SENSOR TYPE			1	NDUCTIVE, WIT	H LOCAL INDICATION	ON			
G	33	CONTACT TYPE				REE	D SWITCH				
SWITCH	34	QUANTITY	TYPE			2		SPDT			
σ	35	CAPACITY CONTACT	I			2A (@ 250 Vca				
	36	ELECTRICAL CONNECTION				1/2	?" NPT(F)				
Ğ.	37	IDENTIFICATION PLATE				YES (SEE GI	ENERAL NOTES 1)				
ACESSÓR.	38	CONFIGURATION MANUAL (HAI	NDHELD)				YES				
ACE	39										
	40	FLUID	PHYSICAL STAT	E	CHILLED	WATER	LIQ	UID			
	41	MINIMUM FLOW	NORMAL	MAXIMUM	242	240	240	m³/h			
SNO	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	5,5	5,5	5,5	°C			
7/7	43	MINIMUM UPSTREAM PRESSURE	NORMAL	MAXIMUM	0,73	0,74	0,74	bar-g			
OPERATING CONDITIONS	44	MINIMUM DOWNSTREAM PRESSURE	NORMAL	MAXIMUM	0,54	0,54	0,55	bar-g			
306	45	DESIGN PRESSURE	DESIGN TEMPE	RATURE	2,	7 bar-g	42,5	°C			
JNL	46	VISCOSITY @ OPERATING CON	IDITION			1,50	Ср				
RA	47	DENSITY @ OPERATING COND	ITION			999,99	kg/m³				
JPE	48	SUSPENDED SOLIDS (%)					NO				
۲	49	SPECIAL FLUID CONDITIONS			NO						
	50	M.M. / Z / Cp/Cv			/						
	51	MANUFACTURER			ROTORK / AUMA						
	52	MODEL			IQ (ROTORK)						









TITLE

SHEET:

10 de 14

								0		
I	1	INSTRUMENT TAG NUMBER					9600150			
	2	SERVICE			CHILL	ED WATER - SU	PPLY BUILDING -	CH-7A-2		
	3	P&ID				7A-I	И-0-5-43			
342	4	PIPE LINE	EQUIPMENT N	UMBER	7A-'10"-CW1S-9	60003-CS1-CC		-		
SENERAL	5	EQUIPMENT MATERIAL / PIPE				CARBON STEE	L ASTM-A106 Gr.E	3		
GEI	6	AREA CLASSIFICATION				NOT C	LASSIFIED			
l	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	NF. NBR IEC 6052	9		
	8	CERTIFICATES				(SEE GENE	RAL NOTES 2)			
	9									
ヿ	10	BODY TYPE			BUTTERFLY					
ı	11	BODY / CAP MATERIAL			ASTM A-216 Gr. WCB					
¥	12	WEDGE, DISC OR GATE MATER	IAL + COATING			ASTM A-	216 Gr. WCB			
<u> </u>	13	SEAT / RINGS MATERIAL + COA	TING			E	PDM			
Ĭ.	14	SHAFT MATERIAL				ASTM A-	216 Gr. WCB			
١٩	15	GASKET MATERIAL				F	PTFE			
BODY AND INTERNAL	16	CONNECTION TO THE PROCES	S			WAFER	? - 10", 150#			
8		FLANGE FACE FINISH				NOT R	REQUIRED			
<u>"</u>	18	SEAL CLASS					IV			
	19									
\dashv		TYPE OF ACTUATOR				SMART / ELET	TRIC MOTORIZED			
	21	OPENING /CLOSING				SMART / ELETRIC MOTORIZED DIRECT ACTION				
ı	22	FAILURE ACTION			STATIONARY					
ı		POWER SUPPLY			3Ø 380Vac / 60Hz					
<u> </u>		HANDWHEEL					YES			
ATC		ELECTRICAL CONNECTION	O	JANTITY	1/2" NF			ACTURER		
CTUATOR		SELF DIAGNOSIS					YES	7.07.07.12.1		
Ĭ		CONFIGURATION					ND REMOTE			
		OPENING, CLOSING AND LOCAL	LSTOP				ND REMOTE			
	29	OF ENING, GEOGING AND EGGAL	20101			LOOALA	ND NEWIOTE			
	30									
\dashv		TYPE INDICATION				OPEN	/ CLOSED			
ŀ	_	SENSOR TYPE			1		H LOCAL INDICATI	ON		
Ę		CONTACT TYPE					SWITCH			
SWITCH		QUANTITY	TYPE			2		SPDT		
ร์		CAPACITY CONTACT	,,,, <u>_</u>				250 Vca			
		ELECTRICAL CONNECTION					NPT(F)			
ند		IDENTIFICATION PLATE			+		NERAL NOTES 1)			
ACESSOR.	38	CONFIGURATION MANUAL (HAN	IDHELD)			<u> </u>	YES			
CES	39	CONTROLATION MANUAL (HAI	NDITICLU)				723			
₹		FLUID	PHYSICAL STA	TF	CHILLED	WATER	1.10	UID		
		MINIMUM FLOW	NORMAL	MAXIMUM	242	240	240	m³/h		
ပ္		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	5,5	5,5	5,5	°C		
<u> </u>			NORMAL	MAXIMUM	0,73	0,74	0,74	bar-g		
OPERATING CONDITIONS		MINIMUM DOWNSTREAM PRESSURE		MAXIMUM	0,54	0,74	0,55	bar-g bar-g		
<u> </u>		DESIGN PRESSURE	DESIGN TEMPI		· ·	7 bar-g	42,5			
ဗ္		VISCOSITY @ OPERATING CON			2,	1,50				
A I		DENSITY @ OPERATING CONDI			+	999,99	•			
빌		SUSPENDED SOLIDS (%)	11011							
õ		SPECIAL FLUID CONDITIONS			NO NO					
					NO , , ,					
\dashv	50 M.M. / Z / Cp/Cv 51 MANUFACTURER				// ROTORK / AUMA					
					ROTORK / AUMA					
IOT		MODEL		IQ (ROTORK)						









TITLE

SHEET:

11 de 14

L								0		
	1	INSTRUMENT TAG NUMBER				XV	² -980056			
	2	SERVICE			COOLII	NG WATER - CO	OOLING TOWERS PO	CH-7A-1		
	3	P&ID				7A-	M-0-5-45			
JA7	4	PIPE LINE	EQUIPMENT NUM	1BER	7A-6"-TWR-98	0056-CS1-NI	-			
SENERAL	5	EQUIPMENT MATERIAL / PIPE			CARBON STEEL ASTM-A106 Gr.B					
GEI	6	AREA CLASSIFICATION				NOT	CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529			
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 2)			
	9									
	10	BODY TYPE				BU	TTERFLY			
		BODY / CAP MATERIAL				ASTM A	-216 Gr. WCB			
44	12	WEDGE, DISC OR GATE MATER	PIAL + COATING		ASTM A-216 Gr. WCB					
RN,		SEAT / RINGS MATERIAL + COA			ASTM A-216 Gr. WCB EPDM					
VTE		SHAFT MATERIAL					-216 Gr. WCB			
10 11		GASKET MATERIAL					PTFE			
Α		CONNECTION TO THE PROCES	.s				R - 6", 150#			
BODY AND INTERNAL	-	FLANGE FACE FINISH					REQUIRED			
В		SEAL CLASS				.,,,,,	IV			
	19	OLAL OLAGO					74			
	-	TYPE OF ACTUATOR				SMART / FLE	TRIC MOTORIZED			
		OPENING /CLOSING					CT ACTION			
		FAILURE ACTION								
		POWER SUPPLY		STATIONARY 3Ø - 380Vac / 60Hz						
<u>ج</u>				YES						
ACTUATOR		24 HANDWHEEL 25 ELECTRICAL CONNECTION QUANTITY		NTITY	1/2" NPT(F) BY MANUFACTURER					
JUT:		SELF DIAGNOSIS	QUA	INTIT	1/2 IVF	1(1)	YES	10 TOKEK		
AC		CONFIGURATION				1004				
		OPENING, CLOSING AND LOCA	LSTOP			LOCAL AND REMOTE LOCAL AND REMOTE				
	29	Of ENING, CECSING AND ECCA	2 3 7 0 7			LOCAL	AND KEWOTE			
	30									
		TYPE INDICATION			1	OPEN	I / CLOSED			
	_	SENSOR TYPE					H LOCAL INDICATION)		
동	_	CONTACT TYPE					D SWITCH			
SWITCH		QUANTITY	TYPE			2		PDT		
S	_	CAPACITY CONTACT					 D			
		ELECTRICAL CONNECTION					" NPT(F)			
~;		IDENTIFICATION PLATE					ENERAL NOTES 1)			
ACESSÓR.	38	CONFIGURATION MANUAL (HAN	NDHELD)			720 (022 02	YES			
ICES	39	CONTROL (TITLE	VDI ILLO)				720			
		FLUID	PHYSICAL STATE	=	CHILLED	WATER	LIQU	IID		
		MINIMUM FLOW	NORMAL	MAXIMUM	104,2	104,2	104,2	m³/h		
ςγ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	37	37	37	°C		
701			NORMAL	MAXIMUM	1,05	1,08	1,09	bar-g		
VDI			NORMAL	MAXIMUM	0,78	0,82	0,82	bar-g bar-g		
00		DESIGN PRESSURE	DESIGN TEMPER			6 bar-g	67,0			
OPERATING CONDITIONS		VISCOSITY @ OPERATING CON		O/ L	1,0	0.69				
ATI					1	993,0	*			
PER					1	333,0				
Ô					NO NO					
					NO / /					
\vdash	_	·			/ /					
		MANUFACTURER			ROTORK / AUMA					
	52	MODEL			IQ (ROTORK)					









TITLE

12 de 14 REV.:

SHEET:

								0		
	1	INSTRUMENT TAG NUMBER			XV-980057					
	2	SERVICE			COOLIN	IG WATER - CO	OOLING TOWERS I	PCH-7A-2		
	3	P&ID				7A-	M-0-5-45			
AL.	4	PIPE LINE	EQUIPMENT NUM	MBER	7A-6"-TWR-980	057-CS1-NI		-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				CARBON STE	EL ASTM-A106 Gr.L	3		
GE!	6	AREA CLASSIFICATION				NOT	CLASSIFIED			
Ī	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 6052	9		
ľ	8	CERTIFICATES				(SEE GEN	ERAL NOTES 2)			
ı	9									
	10	BODY TYPE				BU	TTERFLY			
ĺ	11	BODY / CAP MATERIAL				ASTM A	-216 Gr. WCB			
AL A	12	WEDGE, DISC OR GATE MATER	RIAL + COATING		ASTM A-216 Gr. WCB					
ERN	13	SEAT / RINGS MATERIAL + COA	TING		EPDM					
BODY AND INTERNAL	14	SHAFT MATERIAL			ASTM A-216 Gr. WCB					
N	15	GASKET MATERIAL					PTFE			
Ϋ́	16	CONNECTION TO THE PROCES	S			WAFE	R - 6", 150#			
308	17	FLANGE FACE FINISH				NOT	REQUIRED			
	18	SEAL CLASS					IV			
ĺ	19									
	20	TYPE OF ACTUATOR				SMART/ELE	TRIC MOTORIZED			
	21	OPENING /CLOSING				DIRE	CT ACTION			
ĺ	22	FAILURE ACTION			STATIONARY					
ĺ	23	POWER SUPPLY			3Ø - 38	80Vac / 60Hz				
8	24	24 HANDWHEEL				YES				
ZA I	25	ELECTRICAL CONNECTION	QUA	NTITY	1/2" NP	T(F)	BY MANU	FACTURER		
ACTUATOR	26	SELF DIAGNOSIS					YES			
`	27	CONFIGURATION				LOCAL A	AND REMOTE			
ĺ	28	OPENING, CLOSING AND LOCA	L STOP			LOCAL A	AND REMOTE			
	29									
	30									
	31	TYPE INDICATION				OPEN	I/CLOSED			
	32	SENSOR TYPE			//\	IDUCTIVE, WIT	H LOCAL INDICATI	ION		
SWITCH	33	CONTACT TYPE				REE	D SWITCH			
SWI	34	QUANTITY	TYPE			2		SPDT		
	35	CAPACITY CONTACT			2A @ 250 Vca					
	36	ELECTRICAL CONNECTION			1/2" NPT(F)					
گ ج	37	IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 1)					
ACESSÓR.	38	CONFIGURATION MANUAL (HAI	NDHELD)				YES			
AC	39									
	40	FLUID	PHYSICAL STATE		CHILLED V	VATER	LIG	QUID		
,	41	MINIMUM FLOW	NORMAL	MAXIMUM	104,2	104,2	104,2	m³/h		
š		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	37	37	37	°C		
F			NORMAL	MAXIMUM	1,05	1,08	1,09	bar-g		
8			NORMAL	MAXIMUM	0,78	0,82	0,82	bar-g		
၂၀		DESIGN PRESSURE	DESIGN TEMPER	RATURE	4,6	bar-g	67,0	0 ℃		
Š.		VISCOSITY @ OPERATING CON				0,69	<u>'</u>			
OPERATING CONDITIONS		DENSITY @ OPERATING COND	ITION			993,0				
9		SUSPENDED SOLIDS (%)			NO					
		SPECIAL FLUID CONDITIONS			NO					
		M.M. / Z / Cp/Cv			//					
		MANUFACTURER	ROTORK / AUMA							
	52	MODEL			IQ (ROTORK)					









CLIENT NR: PRD-AIC-DSH-074 NUMBER: 569-DB7A-AIC-733-001

TITLE

SHEET: 13 de 14 REV.:

MOTORIZED ON-OFF VALVE

								0		
	1	INSTRUMENT TAG NUMBER				XV	′-980080			
	2	SERVICE			G	LYCOL DO PO	CH-7A-1 FOR BT-7A-	.1		
	3	P&ID				7A-	M-0-5-45			
47	4	PIPE LINE	EQUIPMENT NUM	IBER	7A-6"-GW0S-980	080-CS1-CC	-			
IER	5	EQUIPMENT MATERIAL / PIPE				CARBON STE	EL ASTM-A106 Gr.B			
GENERAL	6	AREA CLASSIFICATION				NOT	CLASSIFIED			
0		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
	8	CERTIFICATES					ERAL NOTES 2)			
	9					,	,			
	<u> </u>	BODY TYPE				BUT	TTERFLY			
		BODY / CAP MATERIAL			ASTM A-216 Gr. WCB					
1 7		WEDGE, DISC OR GATE MATER	PIAL + COATING				-216 Gr. WCB			
RN,		SEAT / RINGS MATERIAL + COA					EPDM			
BODY AND INTERNAL		SHAFT MATERIAL					-216 Gr. WCB			
II ()		GASKET MATERIAL					PTFE			
ΑV		CONNECTION TO THE PROCES	\$				R - 6", 150#			
00		FLANGE FACE FINISH					REQUIRED			
B		SEAL CLASS				7,077	IV			
	19	SEAL CLASS					77			
	_	TYPE OF ACTUATOR			SMART / ELETRIC MOTORIZE					
		OPENING /CLOSING					CT ACTION			
		FAILURE ACTION					TIONARY			
		POWER SUPPLY					30Vac / 60Hz			
Ä		HANDWHEEL			YES					
ATC		ELECTRICAL CONNECTION	OUA	NTITY	1/2" NP	T(F)	BY MANUF	ACTURER		
ACTUATOR		SELF DIAGNOSIS	1 437.11		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(,)	YES	7107071271		
Ä		CONFIGURATION				LOCAL A	AND REMOTE			
		OPENING, CLOSING AND LOCAL	I STOP				AND REMOTE			
	29									
	30									
	-	TYPE INDICATION				OPEN	I / CLOSED			
	_	SENSOR TYPE			IN		H LOCAL INDICATION	ON		
CH		CONTACT TYPE					D SWITCH			
SWITCH		QUANTITY	TYPE					SPDT		
S		CAPACITY CONTACT				2A @	I D 250 Vca			
		ELECTRICAL CONNECTION					" NPT(F)			
αż	37	IDENTIFICATION PLATE					ENERAL NOTES 1)			
ACESSÓR.	38	CONFIGURATION MANUAL (HAI	NDHELD)			<u> </u>	YES			
ACE	39	· · ·	<u>-</u>							
-	40	FLUID	PHYSICAL STATE	•	CHILLED W	/ATER	LIQI	UID		
	41	MINIMUM FLOW	NORMAL	MAXIMUM	93,0	93,0	114,0	m³/h		
NS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	5,0	5,0	5,0	°C		
170	43	MINIMUM UPSTREAM PRESSURE	NORMAL	MAXIMUM	0,04	0,04	0,05	bar-g		
JND,	44	MINIMUM DOWNSTREAM PRESSURE	NORMAL	MAXIMUM	0,03	0,03	0,04	bar-g		
300	45	DESIGN PRESSURE	DESIGN TEMPER	ATURE	2,0	bar-g	35,0	°C		
JNG	46	VISCOSITY @ OPERATING CON	IDITION			1,52	Ср			
RAJ		DENSITY @ OPERATING COND				1000,0	kg/m³			
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)			NO					
0		SPECIAL FLUID CONDITIONS					NO			
		M.M. / Z / Cp/Cv					//			
	51	MANUFACTURER				ROTO	PRK/AUMA			
	52	MODEL				IQ (F	ROTORK)			
$\overline{}$	oz mosez									

NOTES: THE SELECTED CV AND THE OPENING PERCENTAGE MUST BE SUPPLIED BY THE VALVE MANUFACTURER. 1-

THE INSTRUMENT SHALL BE PREPARED TO OPERATE WITH PROPYLENE GLICOL 10% IF REQUIRED.









TITLE

ISHEET:

MOTORIZED ON-OFF VALVE

14 de 14 REV.:

MO	,,,	DRIZED ON-OFF VALVE	=					0	
	1	INSTRUMENT TAG NUMBER	XV-980083						
		SERVICE			GLYCOL DO PCH-7A-2 FOR BT-7A-1			-1	
		P&ID			7A-M-0-5-45				
7					7A-6"-GW0S-980083-CS1-CC -				
SENERAL		EQUIPMENT MATERIAL / PIPE			CARBON STEEL ASTM-A106 Gr.B				
ENE	_				NOT CLASSIFIED				
O		AREA CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
		ENCLOSURE CLASSIFICATION			, ,				
	8	CERTIFICATES			(SEE GENERAL NOTES 2)				
_	9	PODY TYPE			DITTEDEI V				
		BODY TYPE			BUTTERFLY				
_		BODY / CAP MATERIAL			ASTM A 246 Gr. WCB				
BODY AND INTERNAL		WEDGE, DISC OR GATE MATERIAL + COATING			ASTM A-216 Gr. WCB				
担		SEAT / RINGS MATERIAL + COATING			EPDM				
<u> </u>		SHAFT MATERIAL			ASTM A-216 Gr. WCB				
A N		GASKET MATERIAL			PTFE				
۵۱		CONNECTION TO THE PROCESS			WAFER - 6", 150#				
BC		FLANGE FACE FINISH			NOT REQUIRED				
		SEAL CLASS			IV				
	19	T. (25 . 05 . 107 . 117							
		TYPE OF ACTUATOR			SMART / ELETRIC MOTORIZED				
		OPENING /CLOSING			DIRECT ACTION				
		FAILURE ACTION			STATIONARY				
~		POWER SUPPLY			3Ø - 380Vac / 60Hz				
ACTUATOR		HANDWHEEL			YES				
Ž		ELECTRICAL CONNECTION	QUAI	NTITY	1/2" NP	T(F)	BY MANUF	ACTURER	
AC		SELF DIAGNOSIS			YES				
		CONFIGURATION			LOCAL AND REMOTE				
	28	OPENING, CLOSING AND LOCAL STOP			LOCAL AND REMOTE				
	29								
	30								
	-	TYPE INDICATION			OPEN / CLOSED				
_		SENSOR TYPE			INDUCTIVE, WITH LOCAL INDICATION				
SWITCH		CONTACT TYPE			REED SWITCH				
SN		QUANTITY TYPE			2 SPDT				
	-	CAPACITY CONTACT			2A @ 250 Vca				
		ELECTRICAL CONNECTION			1/2" NPT(F)				
ACESSÓR.		IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 1)				
	38				YES				
¥	39	ISLAND INCOME OTATE			0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		FLUID	PHYSICAL STATE		CHILLED V		LIQ	ı	
S		MINIMUM FLOW	NORMAL	MAXIMUM	93,0	93,0	114,0	m³/h	
δ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	5,0	5,0	5,0	°C	
TIQ.			NORMAL	MAXIMUM	0,04	0,04	0,05	bar-g	
<u>ĕ</u>		MINIMUM DOWNSTREAM PRESSURE		MAXIMUM	0,03	0,03	0,04	bar-g	
၁၂		DESIGN PRESSURE DESIGN TEMPERATURE			2,0	2,0 bar-g 35,0 °C			
47					1,52 Cp				
OPERATING CONDITIONS		DENSITY @ OPERATING CONDITION			1000,0 kg/m³				
		* *			NO				
					NO				
					ļ	//			
					ROTORK / AUMA				
	52	MODEL			IQ (ROTORK)				

NOTES: 1-

- THE SELECTED CV AND THE OPENING PERCENTAGE MUST BE SUPPLIED BY THE VALVE MANUFACTURER.
- 2- THE INSTRUMENT SHALL BE PREPARED TO OPERATE WITH PROPYLENE GLICOL 10% IF REQUIRED.