







DOC NUMBER:

CLIENT NUMBER:

569-DB7A-AIC-712-004 PRD-AIC-DSH-023

CLIENT:

TAKEDA/BAXALTA

PROJECT:

BURITI EPCVM PROJECT

DRUG PRODUCT - PCS - DATA SHEET PRESSURE GAUGE SANITARY

		Τ			
2	26JAN2022	ISSUED FOR CONSTRUCTION UPDATED AS PER NOTES	MAB	MAF	RSP
1	17NOV2021	ISSUED FOR CONSTRUCTION UPDATED AS PER NOTES	MAB	MAF	RSP
0	13SEP2021	ISSUED FOR CONSTRUCTION	MAB	MAF	RSP
Α	31MAR2021	60% DD ISSUE	JHA	MAF	MAJ
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV



TITLE







NUMBER: 569-DB7A-AIC-712-004 CLIENT NR: PRD-AIC-DSH-023

2 de 61 REV.:

PRESSURE GAUGE SANITARY

DOCUMENT REVIEW CONTROL

Revision	Α	0	1	2	3	4	Revision	Α	В	0	1	2	3	Revision	Α	В	0	1	2	3
Page							Page							Page						
1	Х	Χ	Χ	Х			26			Χ	Χ	Χ		51			Χ	Χ	Χ	
2	Х	Χ	Χ	Χ			27			Χ	Χ	Χ		52			Χ	Χ	Χ	
3	Х	Χ	Χ	Χ			28			Χ	Χ	Χ		53			Χ	Χ	Χ	
4	Х	Χ	Χ	Χ			29			Х	Χ	Χ		54			Χ	Χ	Χ	
5	Х	Χ	Χ	Х			30			Χ	Χ	Χ		55			Χ	Χ	Χ	
6	Х	Χ	Χ	Χ			31			Х	Χ	Χ		56			Χ	Χ	Χ	
7	Х	Χ	Χ	Х			32			Х	Χ	Χ		57			Χ	Χ	Χ	
8	Х	Χ	Х	Х			33			Х	Χ	Χ		58			Χ	Χ	Χ	
9	Х	Χ	Χ	Χ			34			Χ	Χ	Χ		59			Χ		Χ	
10	Х	Χ	Χ	Χ			35			Χ	Χ	Χ		60					Χ	
11	Х	Χ	Χ	Χ			36			Χ	Χ	Χ		61					Χ	
12	Х	Χ	Χ	Χ			37			Χ	Χ	Χ		62						
13	Х	Χ	Χ	Χ			38			Χ	Χ	Χ		63						
14	Х	Χ	Χ	Χ			39			Χ	Χ	Χ		64						
15	Х	Χ	Χ	Χ			40			Χ	Χ	Χ		65						
16	Х	Χ	Χ	Χ			41			Χ	Χ	Χ		66						
17	Х	Χ	Χ	Χ			42			Χ	Χ	Χ		67						
18	Х	Χ	Χ	Х			43			Χ	Χ	Χ		68						
19	Х	Χ	Χ	Χ			44			Χ	Χ	Χ		69						
20	Х	Χ	Χ	Χ			45			Χ	Χ	Χ		70						
21	Х	Χ	Χ	Χ			46			Χ	Χ	Χ		71						
22		Χ	Χ	Χ			47			Χ	Χ	Χ		72						
23		Χ	Χ	Χ			48			Х	Χ	Χ		73						
24		Χ	Χ	Χ			49			Х	Χ	Χ		74						
25		Х	Х	Х			50			Х	Х	Х		75						

The information contained in this document is the property of TESSLER Engenharia and is provided to the customer under the condition that they are not used for other purposes other than those contractually established.









TITLE

ISHE

SHEET: 3 de 61

PRESSURE GAUGE SANITARY

REV.:

	REFERENCE DOCUMENTS
7A-Z-0-2-01	P&I DIAGRAM - DRUG PRODUCT - BUFFER PREP
7A-Z-0-2-02	P&I DIAGRAM - DRUG PRODUCT - FORMULATION
7A-Z-0-2-03	P&I DIAGRAM - DRUG PRODUCT - STERILE FILTRATION, FIL-3901
7A-Z-0-2-08	P&I DIAGRAM - DRUG PRODUCT - LYOPHILIZER №1, LYO-1105
7A-Z-0-2-09	P&I DIAGRAM - DRUG PRODUCT - LYOPHILIZER Nº2, LYO-1106
7A-Z-0-2-20	P&I DIAGRAM - DRUG PRODUCT - CIP CLEANING CHEMICAL STORAGE (TOTES) & DIST.
7A-Z-0-2-21	P&I DIAGRAM - DRUG PRODUCT - CIP SYSTEM, CIP-7701
7A-Z-0-2-28	P&I DIAGRAM - DRUG PRODUCT - CLEAN STEAM - DISTRIBUTION
7A-Z-0-2-34	P&I DIAGRAM - DRUG PRODUCT - LIQ. NITROGEN RECEIVING, STORAGE, & DISTRIBUTION
7A-Z-0-2-36	P&I DIAGRAM - DRUG PRODUCT - CLEAN COMPRESSED AIR - DISTRIBUTION
PRD-AIC-LIS-009	DRUG PRODUCT - PCS - 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- Provide calibration certificate issued by INMETRO or by organ accredited by it.
- 2- The identification plates must be made of AISI 304 stainless steel permanently attached to the instruments with a tag and serial number. The serial number of the instrument, when possible, can be recorded on the body itself.
- The manufacturer must provide rear protection disc.
- 4- The parts in contact with the process fluid must have mechanical sanding internally standard ASME BPE SF1 with Max Ra. 0.51 μm according to table SF-2.4-1 ASME BPE-2019 and external. Ra max. 0.8 μm.

REVISION 0 - NOTES
1- REVISED AS PER INSTRUMENT LIST NUMBER PRD-AIC-LIS- 010_B_PCS_INSTRUMENT_INDEX AND BACKLOG NUMBER 99000-184.0 2021.03.30 - A&IC DOCUMENTS - COMMENTS_REV.01
REVISION 1 - NOTES
REVISION 1 - NOTES 1 - ACCORDING NEW ARQUITECTURE UPDATED
1.2.1.3.3.1.1.1.1.2.2.2.









TITLE

SHEET:

4 de 61

PRESSURE GAUGE SANITARY

REV.: **2**

		OOKE CAOCE CANTI						2		
	1	INSTRUMENT TAG NUMBER				PI	-110203	•		
	2	SERVICE			CH	HILLED WA	TER LOOP SUPPLY			
	3	P&ID				7A-	-Z-0-2-04			
Ŧ	4	PIPE LINE	EQUIPMENT NUM	IBER	2"-GW0S-110202-	CS1-CC	_			
ER/		EQUIPMENT MATERIAL / PIPE					I 270 Gr. TP316L			
GENERAL		AREA CLASSIFICATION					CLASSIFIED			
0		ENCLOSURE CLASSIFICATION			IP (ONF. NBR IEC 60529			
	8	CERTIFICATES			" '		ERAL NOTES 6)			
	9	CERTIFICATES				(OLL OLIV	ENAL NOTES 0)			
	_	TYPE OF MEASUREMENT					NDECT			
	_				DIRECT					
		MOUNTING								
		DIAL DIAMETER	In a cyconou in in c	01.00	114 mm					
		SCALE COLOR	BACKGROUND C	OLOR	BLACK		WHI			
		PRECISION			1%		NAL VALUE "RANGE"			
Ļ		MATERIAL CASE			304SS POLISHED					
MEN		RANGE	RESOLUTION		0 @ 10.0 bar		0,1			
rRU		RING TYPE	RING MATERIAL		BAYONET	-	3048	SS		
NSTRUMENT	18	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (N	И)	вотт	ОМ		
_	19	SENSOR TYPE	MATERIAL SENS	OR	BOURDON	١	3168	SS		
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316SS		3168	SS		
	21	BALANCED POINTER					YES			
	22	MICROMETRIC ADJUSTMENT C	F ZERO				YES			
	23	FRONT TYPE	WINDOWS		SOLID		GLASS SEG. TRA	NSP. MIN. 75%		
	24	FILLING	FLUID		YES		GLYCE	RIN		
	25	SEAL DIAPHRAGM			NO					
	26	CONNECTION INSTRUMENT	-		-					
	27	SEAL FILLING FLUID					-			
	28	WET PART MATERIAL			316	316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH				NOT REQUIRED				
	30	CAPILLARY MATERIAL			NOT REQUIRED					
	31	PULSATION DAMPER			NOT REQUIRED					
ACCESSORIES	32	MATERIAL			NOT REQUIRED					
SOF		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED NOT REQUIRED					
CES		SIPHON TUBE			NOT REQUIRED NOT REQUIRED					
AC		MATERIAL					REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIR		NOT REC	UIRED		
		OVERPRESSURE PROTECTOR	1				REQUIRED			
		MATERIAL					REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIR		NOT REC	ILIRED		
		TAGGING	111100200 001111	2011011			I ENERAL NOTES 2)	OII (LD		
	40	17.001110			· '	LO (OLE GI	LIVELING ES Z)			
	_	ELLIID	DUVEICAL STATE	<u> </u>	WATER		LIOU	IID.		
S		FLUID	PHYSICAL STATE		WATER		LIQU	°C		
NO.		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4			
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	<u> </u>		2,5	bar-g		
SON		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-					
NG		VISCOSITY @ OPERATING COND			-		cP			
ATII		DENSITY @ OPERATING COND	IIIUN		-		kg/m³			
PER		SUSPENDED SOLIDS (%)	A.T.I.D.E				-			
ō		SOLIDIFIES AT ROOM TEMPERA	ATURE				-			
	_	M.M. / Z / Cp/Cv					-			
	_	MANUFACTURER				WIKA C	OR SILMILAR			
	50	MODEL								

NOTES:









TITLE

SHEET: 5 de 61

PRESSURE GAUGE SANITARY

REV.:

PK	ES	SURE GAUGE SANTA	ARY					2 REV.:		
	l 1	INSTRUMENT TAG NUMBER			1	PI	-110205			
	2	SERVICE					TER LOOP RETURN			
		P&ID					-Z-0-2-04			
_			EQUIPMENT NUM	IBER	2"-GW0R-1102					
GENERAL		EQUIPMENT MATERIAL / PIPE			2 0110111102		l 270 Gr. TP316L			
3EN	_	AREA CLASSIFICATION					CLASSIFIED			
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529			
	8	CERTIFICATES				. ,	ERAL NOTES 6)			
	9					(
		TYPE OF MEASUREMENT			DIRECT					
		MOUNTING					OCAL			
		DIAL DIAMETER					14 mm			
		SCALE COLOR	BACKGROUND C	OI OR	BLAC		WHI	TF		
	_	PRECISION	Brioriorio di B	02011			I NAL VALUE "RANGE"			
		MATERIAL CASE					POLISHED			
ΙN		RANGE	RESOLUTION		0 @ 10.0		0,1			
UME		RING TYPE	RING MATERIAL		BAYON		304			
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP1		ВОТТ			
ľ≌		SENSOR TYPE	MATERIAL SENSO		BOURD		316			
	-	MATERIAL SOQUETE	MECHANISM MAT							
		BALANCED POINTER	316SS 316SS YES							
		MICROMETRIC ADJUSTMENT OF ZERO			YES					
		23 FRONT TYPE WINDOWS SOLID G			GLASS SEG. TRA	ANSP MIN 75%				
		FILLING	FLUID		YES		GLYC			
\vdash	_	SEAL DIAPHRAGM			NO					
	-	SEAL DIAPHRAGM CONNECTION INSTRUMENT PROCESS CONNECTION			_					
		SEAL FILLING FLUID			_					
		WET PART MATERIAL				316LSS (SEE (GENERAL NOTES 4)			
		CAPILLARY LENGTH			NOT REQUIRED					
		CAPILLARY MATERIAL			NOT REQUIRED NOT REQUIRED					
 	31	PULSATION DAMPER			NOT REQUIRED NOT REQUIRED					
ACCESSORIES		MATERIAL			NOT REQUIRED NOT REQUIRED					
SOF		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED NOT REQUIRED					
CES		SIPHON TUBE					I REQUIRED			
AC		MATERIAL					REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQI	JIRED	NOT REC	QUIRED		
		OVERPRESSURE PROTECTOR	I				REQUIRED			
		MATERIAL					REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQI		NOT REC	QUIRED		
	46	TAGGING					I ENERAL NOTES 2)			
	40					•	·			
		FLUID	PHYSICAL STATE		WATE	:R	LIQU	JID		
SN S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C		
OPERATING CONDITIONS	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g		
ΙΩΝ	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE	-			°C		
300	40	VISCOSITY @ OPERATING CON	DITION		-		cР			
LING	41	DENSITY @ OPERATING CONDI	TION		-		kg/m³			
[RA]	42	SUSPENDED SOLIDS (%)					-			
OPE	43	SOLIDIFIES AT ROOM TEMPERA	TURE				-			
	44	M.M. / Z / Cp/Cv					-			
	49	MANUFACTURER				WIKA C	OR SILMILAR			
	50	MODEL								
$\overline{}$		l			1					

NOTES:









CLIENT NR: PRD-AIC-DSH-023 NUMBER: 569-DB7A-AIC-712-004

TITLE

6 de 61 REV.:

PRESSURE GAUGE SANITARY

								2		
	1	INSTRUMENT TAG NUMBER				PI	-110501	•		
	2	SERVICE				CHILLED WA	TER LOOP RETURN			
	3	P&ID				7A	-Z-0-2-08			
l d	4	PIPE LINE	EQUIPMENT NUM	MBER	2"-GW0S-1105	17-CS1-CC	-			
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L			
GEN	6	AREA CLASSIFICATION				NOT (CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529)		
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)			
	9									
	10	TYPE OF MEASUREMENT			DIRECT					
	11	MOUNTING			LOCAL					
	12	DIAL DIAMETER			114 mm					
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACK WHITE					
	14	PRECISION				1% OF THE FIN	I NAL VALUE "RANGE	"		
1.	15	MATERIAL CASE				30488	POLISHED			
ENT	16	RANGE	RESOLUTION		0@6b	ar-g	0,	1		
NSTRUMENT	17	RING TYPE	RING MATERIAL		BAYON	IET	304	SS		
ISTE	18	CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NP	Г (М)	вот	ТОМ		
=	19	SENSOR TYPE	MATERIAL SENS	OR	BOURD	ON	316	SS		
	20	MATERIAL SOQUETE	MECHANISM MA	TERIAL	316S	S	316	SS		
	21	BALANCED POINTER	•				YES			
	22	MICROMETRIC ADJUSTMENT O	YES							
	23	FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TR	ANSP. MIN. 75%		
	24	FILLING	YES	1	GLYC	ERIN				
	25	SEAL DIAPHRAGM			NO					
	26	CONNECTION INSTRUMENT	-		-					
	27	SEAL FILLING FLUID					-			
	28	WET PART MATERIAL				316LSS (SEE	GENERAL NOTES 4)		
	29	CAPILLARY LENGTH				NOT	REQUIRED			
	30	CAPILLARY MATERIAL			NOT REQUIRED					
S	31	PULSATION DAMPER			NOT REQUIRED					
ACCESSORIES	32	MATERIAL	_		NOT REQUIRED					
SS	33	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQUIRED NOT REQUIRED					
CCE	34	SIPHON TUBE				NOT	REQUIRED			
^	35	MATERIAL				NOT	REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQ		NOT RE	QUIRED		
		OVERPRESSURE PROTECTOR					REQUIRED			
		MATERIAL	l				REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQ	-	NOT RE	QUIRED		
	-	TAGGING				YES (SEE GI	ENERAL NOTES 2)			
	40	ELLID	DHYSICAL STAT	=	14/4-	- D	1.101	IID		
ا س		FLUID	PHYSICAL STATE	1	WATE	r I	LIQI	°C GID		
NO.		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4			
TIQ		MINIMUM PRESSURE DESIGN PRESSURE	NORMAL DESIGN TEMPER	MAXIMUM	-		2,5	°C		
CO		VISCOSITY @ OPERATING CON		o (1 OI)	+		cP	<u> </u>		
NG		DENSITY @ OPERATING CONDI					kg/m³			
₹		SUSPENDED SOLIDS (%)			 		-			
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA			_					
		M.M. / Z / Cp/Cv			-					
\vdash	-	MANUFACTURER			+	WIKA	OR SILMILAR			
		MODEL			1	***************************************				
L	30	I III ODEL								

NOTES:









TITLE

SHEET:

PRESSURE GAUGE SANITARY

7 de 61 REV.:

PR	ES	SURE GAUGE SANITA	ARY					REV.: 2		
	1	INSTRUMENT TAG NUMBER				PI	-110502			
	2	SERVICE				CHILLED WA	TER LOOP SUPPLY			
		P&ID				7A-	-Z-0-2-08			
	-	PIPE LINE	EQUIPMENT NUM	BER	1/2"-GW0S-1105					
GENERAL		EQUIPMENT MATERIAL / PIPE	Lacii Merri Itom	DEIX	1/2 34400 1100		l 270 Gr. TP316L			
띪		AREA CLASSIFICATION					CLASSIFIED			
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529			
		CERTIFICATES				. ,		<u>'</u>		
		CERTIFICATES			(SEE GENERAL NOTES 6)					
	9	TYPE OF MEASUREMENT			DIRECT					
	-	MOUNTING					OCAL			
		DIAL DIAMETER	In a circinal line of	21.00	DI AO		14 mm	ITE		
	-	SCALE COLOR	BACKGROUND C	JLOR	BLAC		WH			
		PRECISION			·		IAL VALUE "RANGE	"		
F		MATERIAL CASE	ı				POLISHED			
INSTRUMENT		RANGE	RESOLUTION		0 @ 6 b		0,			
IRU		RING TYPE	RING MATERIAL		BAYON		304			
INS	18	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP1	「(M)	BOT	ГОМ		
	19	SENSOR TYPE	MATERIAL SENSO)R	BOURD	ON	316	SS		
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	S	316	SS		
	21	BALANCED POINTER			YES					
	22	MICROMETRIC ADJUSTMENT OF ZERO			YES					
	23	FRONT TYPE WINDOWS FILLING FLUID			SOLI	D	GLASS SEG. TRA	ANSP. MIN. 75%		
	24	FILLING	YES		GLYC	ERIN				
	25	SEAL DIAPHRAGM			NO					
	26	CONNECTION INSTRUMENT	-		-					
	27	SEAL FILLING FLUID			-					
	28	WET PART MATERIAL				316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH				NOT REQUIRED				
	30	CAPILLARY MATERIAL			NOT REQUIRED					
S.	31	PULSATION DAMPER			NOT REQUIRED					
뿚	32	MATERIAL			NOT REQUIRED					
ACCESSORIES	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQUIRED NOT REQUIRED					
SCE	34	SIPHON TUBE			NOT REQUIRED					
Ĭ	35	MATERIAL				NOT	REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ	JIRED	NOT RE	QUIRED		
	37	OVERPRESSURE PROTECTOR	-			NOT	REQUIRED			
	38	MATERIAL				NOT	REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ	JIRED	NOT RE	QUIRED		
	46	TAGGING	-			YES (SEE GE	ENERAL NOTES 2)			
	40									
	36	FLUID	PHYSICAL STATE		WATE	:R	LIQI	JID		
SN.	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C		
OPERATING CONDITIONS	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g		
Ň	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE	-	•		°C		
300	40	VISCOSITY @ OPERATING CON	DITION		-		сР			
ŭ	41	DENSITY @ OPERATING CONDI	TION		-		kg/m³			
ER4	42	SUSPENDED SOLIDS (%)					-			
OPE	43	SOLIDIFIES AT ROOM TEMPERA	ATURE		· ·					
	44	M.M. / Z / Cp/Cv					-			
	49	MANUFACTURER				WIKA C	R SILMILAR			
	50	MODEL								
-		·								

NOTES:









TITLE

SHEET:

PRESSURE GAUGE SANITARY

8 de 61 REV.:

PR	ES	SURE GAUGE SANITA	ARY					REV.: 2		
	1	INSTRUMENT TAG NUMBER			T	PI	-110503			
	2	SERVICE				CHILLED WA	TER LOOP SUPLLY			
		P&ID				7A:	-Z-0-2-08			
	-	PIPE LINE	EQUIPMENT NUM	BER	3/4"-GW0S-1105					
ER/		EQUIPMENT MATERIAL / PIPE					l 270 Gr. TP316L			
GENERAL	_	AREA CLASSIFICATION					CLASSIFIED			
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529			
		CERTIFICATES				. ,	ERAL NOTES 6)	,		
	9	OLIVIII IO/VIEO			(OLE GENERAL NOTES S)					
\vdash	i i	TYPE OF MEASUREMENT			DIRECT					
	-	MOUNTING					OCAL			
		DIAL DIAMETER					14 mm			
		SCALE COLOR	BYCKCBOTIND CO		BLAC		WH	ITC		
	-		BACKGROUND CO	JLOK						
		PRECISION					IAL VALUE "RANGE	1		
I≽		MATERIAL CASE	DECOLUTION		0.004		POLISHED	4		
INSTRUMENT		RANGE	RESOLUTION		0 @ 6 b		0,			
Ⅱ		RING TYPE	RING MATERIAL	0.7.0	BAYON			ISS		
.SN		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT		BOT			
	_	SENSOR TYPE	MATERIAL SENSO MECHANISM MAT		BOURD		316			
		MATERIAL SOQUETE	316S	S	316	SSS				
		BALANCED POINTER			YES					
		MICROMETRIC ADJUSTMENT OF ZERO FRONT TYPE WINDOWS			YES CLASS SEC			TDANOS MILLES		
	23	FRONT TYPE WINDOWS FILLING FLUID			SOLI		GLASS SEG. TR	ANSP. MIN. 75%		
\perp	\vdash	FILLING	YES		GLYC	ERIN				
	25	SEAL DIAPHRAGM			NO					
	26	CONNECTION INSTRUMENT	-		-	•				
	27	SEAL FILLING FLUID					-			
	28	WET PART MATERIAL				316LSS (SEE GENERAL NOTES 4) NOT REQUIRED				
	29	CAPILLARY LENGTH			NOT REQUIRED					
		CAPILLARY MATERIAL			NOT REQUIRED					
S		PULSATION DAMPER			NOT REQUIRED					
ORI	32	MATERIAL			NOT REQUIRED					
SSE	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQUIRED NOT REQUIRED					
ACCESSORIES	_	SIPHON TUBE			NOT REQUIRED					
	35	MATERIAL				NOT	REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQI	JIRED	NOT RE	QUIRED		
		OVERPRESSURE PROTECTOR					REQUIRED			
		MATERIAL					REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQI		NOT RE	QUIRED		
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)			
	40									
l l	36	FLUID	PHYSICAL STATE	•	WATE	:R	LIQ			
SNC	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C		
TIC		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g		
NO:		DESIGN PRESSURE	DESIGN TEMPERA	ATURE	-			°C		
JG C		VISCOSITY @ OPERATING CON			-		cP			
ATIN		DENSITY @ OPERATING CONDI	TION		-		kg/m³			
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)					-			
[_	SOLIDIFIES AT ROOM TEMPERA	TURE				-			
		M.M. / Z / Cp/Cv					-			
	_	MANUFACTURER				WIKA C	OR SILMILAR			
	50	MODEL								

NOTES:









TITLE

SHEET:

PRESSURE GAUGE SANITARY

9 de 61 REV.:

PR	E5	SURE GAUGE SANTA	AIK Y					2 REV.:		
	l 1	INSTRUMENT TAG NUMBER				PI	-110504			
	2	SERVICE					TER LOOP RETURN			
		P&ID					-Z-0-2-08			
			EQUIPMENT NUM	IBER	2"-GW0R-1105					
GENERAL		EQUIPMENT MATERIAL / PIPE			2 377377 7733		I 270 Gr. TP316L			
EN EN	_	AREA CLASSIFICATION					CLASSIFIED			
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529			
	8	CERTIFICATES				. ,	ERAL NOTES 6)			
	9	OLIVIII IO/VIEO				(OLL OLIV	210121101200)			
\vdash		TYPE OF MEASUREMENT			DIRECT					
		MOUNTING					LOCAL			
		DIAL DIAMETER					14 mm			
		SCALE COLOR	BACKGROUND C	OLOP.	BLAC		WHI	TE		
	_	PRECISION	BACKGROUND C	OLOK	-		 NAL VALUE "RANGE			
		MATERIAL CASE								
Ϋ́		RANGE	DECOLUTION		0.00		S POLISHED			
JME			RESOLUTION		0 @ 6 b	-	0,1			
NSTRUMENT		RING TYPE	RING MATERIAL	OUTION	BAYON		304			
INS		CONEX. PROCES. / ACESS.	CONNECTION PC		, ,			ГОМ		
	-	SENSOR TYPE	MATERIAL SENSO		BOURD		316			
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	S	316	SS		
	- ·	BALANCED POINTER			YES					
		MICROMETRIC ADJUSTMENT O	ı				YES	ACC CEC TRANCE MIN 750/		
		FRONT TYPE	WINDOWS FLUID		SOLI		GLASS SEG. TRA			
	_	FILLING	YES		GLYC	ERIN				
	-	SEAL DIAPHRAGM CONNECTION INSTRUMENT PROCESS CONNECTION					NO			
	26	CONNECTION INSTRUMENT	-		-					
	27	SEAL FILLING FLUID					-			
	28	WET PART MATERIAL				316LSS (SEE (GENERAL NOTES 4)			
	29	CAPILLARY LENGTH			NOT REQUIRED					
		CAPILLARY MATERIAL			NOT REQUIRED					
ES	31	PULSATION DAMPER			NOT REQUIRED					
ACCESSORIES	32	MATERIAL			NOT REQUIRED					
ESS		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED					
CC	34	SIPHON TUBE				NOT	REQUIRED			
	35	MATERIAL				NOT	REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ	JIRED	NOT REC	QUIRED		
		OVERPRESSURE PROTECTOR					REQUIRED			
		MATERIAL					REQUIRED I			
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REC	QUIRED		
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)			
	40		ı				T			
l.,	36	FLUID	PHYSICAL STATE		WATE	:R	LIQI			
SNC	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C		
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g		
NO:			DESIGN TEMPER	ATURE	-			°C		
16 C		VISCOSITY @ OPERATING CON			-		сР			
ATIN		DENSITY @ OPERATING CONDI	TION		-		kg/m³			
'ER		SUSPENDED SOLIDS (%)					-			
ام ا	_	SOLIDIFIES AT ROOM TEMPERA	TURE				-			
		M.M. / Z / Cp/Cv					-			
	_	MANUFACTURER				WIKA C	OR SILMILAR			
	50	MODEL								

NOTES:









TITLE

10 de 61

REV.:

PRESSURE GAUGE SANITARY

PR	ES	SURE GAUGE SANIT	AR Y					2 REV.:		
	1	INSTRUMENT TAG NUMBER				PI	-110505			
	2	SERVICE				CLEAN COMPR	RESSED AIR SUPPLY	,		
	3	P&ID				7A	-Z-0-2-08			
Į,	_	PIPE LINE	EQUIPMENT NUM	MBER	1"-CAP-7000					
GENERAL		EQUIPMENT MATERIAL / PIPE		··			l 270 Gr. TP316L			
ЭËN		AREA CLASSIFICATION					CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529			
	8	CERTIFICATES				. ,	ERAL NOTES 6)			
	9	OEI (TIII 10) (TEO			(022 021.213 2110 120 0)					
	10	TYPE OF MEASUREMENT			DIRECT					
	_	MOUNTING				LOCAL				
		DIAL DIAMETER				114 mm				
		SCALE COLOR	BACKGROUND C	OLOR	BLAG		WHI	TF		
	_	PRECISION	127101101101112				IAL VALUE "RANGE"			
		MATERIAL CASE					POLISHED			
Ä	_	RANGE	RESOLUTION		0 @ 10.0		0,1			
UME		RING TYPE	RING MATERIAL		BAYO	-	304			
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NP		ВОТТ			
ž		SENSOR TYPE	MATERIAL SENS		BOURI		316			
	_	MATERIAL SOQUETE	MECHANISM MA							
		BALANCED POINTER		· - · · · · -	316SS 316SS YES					
		MICROMETRIC ADJUSTMENT C	F ZERO		YES					
	23	FRONT TYPE	WINDOWS		SOL	ID	GLASS SEG. TRA	ANSP. MIN. 75%		
	24	FILLING	FLUID		YES	3	GLYCI	ERIN		
	25	SEAL DIAPHRAGM	1		YES	S IN AISI 316L (S	SEE GENERAL NOTE	ES 4)		
	26	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFA	CTURER	1/2"-TRI-CLAM	P-ASME BPE		
	27	SEAL FILLING FLUID			MEDIC	AL WHITE MINE	ERAL OIL (FDA-APPF	ROVED)		
	28	WET PART MATERIAL				316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH			NOT REQUIRED					
	30	CAPILLARY MATERIAL			NOT REQUIRED					
တ	31	PULSATION DAMPER			NOT REQUIRED					
띪	32	MATERIAL			NOT REQUIRED					
ACCESSORIES	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED					
SCE	34	SIPHON TUBE			NOT REQUIRED NOT REQUIRED					
₹	35	MATERIAL				NOT	REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REG	UIRED	NOT REC	QUIRED		
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED			
	38	MATERIAL				NOT	REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REG	UIRED	NOT REC	QUIRED		
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)			
	40									
		FLUID	PHYSICAL STATE	1	CLEAN	AIR	Alf			
SNC	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,			°C		
Ē		MINIMUM PRESSURE	NORMAL	MAXIMUM				bar-g		
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	A FURÉ				°C		
βĞ		VISCOSITY @ OPERATING CON					cP			
ATI)		DENSITY @ OPERATING COND	IIION				kg/m³			
H.		SUSPENDED SOLIDS (%)	A T. I.D.C.		NOT					
Ō	_	SOLIDIFIES AT ROOM TEMPER	ATUKE			NOT				
_		M.M. / Z / Cp/Cv			1		/ /			
	_	MANUFACTURER				WIKA C	OR SILMILAR			
L_		MODEL								

NOTES:









TITLE

SHEET: 11 de 61

REV.:

PRESSURE GAUGE SANITARY

								2	
	1	INSTRUMENT TAG NUMBER				PI	-110506		
	2	SERVICE			GASEOUS NITRO	OGEN FROM D	ISTRIBUTION - LYO	FREEZE DRYER	
	3	P&ID				7A	-Z-0-2-08		
뒴	4	PIPE LINE	EQUIPMENT NUM	BER	7A-1/2"-GNP-110	527-SS10-NI	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L		
E)	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529		
	8	CERTIFICATES					ERAL NOTES 6)		
	9						,		
	<u> </u>	TYPE OF MEASUREMENT			DIRECT				
		MOUNTING			LOCAL				
	12	DIAL DIAMETER			114 mm				
		SCALE COLOR	BACKGROUND CO	OLOR	BLAC	K	WH	ITE	
	_	PRECISION					I IAL VALUE "RANGE	"	
		MATERIAL CASE					POLISHED		
Ϋ́		RANGE	RESOLUTION		0 @ 6.0 l		0,	 1	
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON		304		
STR		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT		ВОТТ	TOM	
Ë		SENSOR TYPE	MATERIAL SENSO		BOURD		316		
		MATERIAL SOQUETE	MECHANISM MAT		3168		316		
		BALANCED POINTER			0.00	_	YES		
		MICROMETRIC ADJUSTMENT O	F 7FRO				YES		
		FRONT TYPE	windows		SOLII	n .	GLASS SEG. TRA	ANSP MIN 75%	
	_	FILLING	FLUID		YES		GLYC		
	_	SEAL DIAPHRAGM	1 2015				SEE GENERAL NOTE		
	_	CONNECTION INSTRUMENT	BY MANUFA	,	1/2"-TRI-CLAM				
		SEAL FILLING FLUID	PROCESS CONNE	2011014			ERAL OIL (FDA-APPI		
		WET PART MATERIAL							
	_	CAPILLARY LENGTH			316LSS (SEE GENERAL NOTES 4) NOT REQUIRED				
	30	CAPILLARY MATERIAL			NOT REQUIRED NOT REQUIRED				
		PULSATION DAMPER			NOT REQUIRED NOT REQUIRED				
ACCESSORIES		MATERIAL							
SOF		CONNECTION INSTRUMENT	PROCESS CONNE	CTION	NOT REQUIRED NOT REQUIRED NOT REQUIRED				
SES		SIPHON TUBE			NOT REQUIRED NOT REQUIRED NOT REQUIRED				
Ä	-	MATERIAL					REQUIRED		
			PROCESS CONNE	CTION	NOT REQI		NOT REC	DUIRED	
		OVERPRESSURE PROTECTOR					REQUIRED	20.1.22	
		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQI		NOT REC	QUIRED	
	46	TAGGING					ENERAL NOTES 2)		
	40					(
	<u> </u>	FLUID	PHYSICAL STATE		NITROG	SEN	GA	S	
S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM				°C	
TIO		MINIMUM PRESSURE	NORMAL	MAXIMUM	,			bar-g	
IQN		DESIGN PRESSURE	DESIGN TEMPER	1		I		°C	
00	40	VISCOSITY @ OPERATING CON					cP		
ING		DENSITY @ OPERATING CONDI					kg/m³		
RAI		SUSPENDED SOLIDS (%)					NOT		
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
		M.M. / Z / Cp/Cv				/ /			
	-	MANUFACTURER					R SILMILAR		
l		MODEL							

NOTES:









NUMBER: CLIENT NR: PRD-AIC-DSH-023 569-DB7A-AIC-712-004

TITLE

12 de 61

REV.:

2

PRESSURE GAUGE SANITARY

INSTRUMENT TAG NUMBER PI-110507 2 SERVICE CHILLED WATER LOOP RETURN P&ID 7A-Z-0-2-08 3 3/4"-GW0R-110522-CS1-CC PIPE LINE **EQUIPMENT NUMBER** 4 EQUIPMENT MATERIAL / PIPE ASTM A270 Gr. TP316L AREA CLASSIFICATION NOT CLASSIFIED **ENCLOSURE CLASSIFICATION** IP 65 (MÍN.) CONF. NBR IEC 60529 CERTIFICATES (SEE GENERAL NOTES 6) 8 TYPE OF MEASUREMENT DIRECT 10 MOUNTING LOCAL 11 12 DIAL DIAMETER 114 mm 13 SCALE COLOR BACKGROUND COLOR WHITE BLACK PRECISION 1% OF THE FINAL VALUE "RANGE" 14 MATERIAL CASE 304SS POLISHED 15 INSTRUMEN' 16 RANGE RESOLUTION 0 @ 6 bar-g 0.1 17 RING TYPE RING MATERIAL **BAYONET** 304SS 18 CONEX. PROCES. / ACESS. CONNECTION POSITION воттом 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR **BOURDON** 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS BALANCED POINTER YES MICROMETRIC ADJUSTMENT OF ZERO YES 22 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 75% 24 FILLING FLUID YES **GLYCERIN** SEAL DIAPHRAGM 25 NO CONNECTION INSTRUMENT PROCESS CONNECTION SEAL FILLING FLUID 27 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 29 CAPILLARY LENGTH NOT REQUIRED CAPILLARY MATERIAL 30 NOT REQUIRED PULSATION DAMPER NOT REQUIRED 31 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED SIPHON TUBE NOT REQUIRED 34 NOT REQUIRED 35 MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 36 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2) TAGGING 46 40 FLUID PHYSICAL STATE WATER LIQUID 36 37 MINIMUM TEMPERATURE NORMAL MAXIMUM 1,4 °C OPERATING CONDITIONS 38 MINIMUM PRESSURE NORMAL MAXIMUM 2,5 bar-a 39 DESIGN PRESSURE DESIGN TEMPERATURE °C 40 VISCOSITY @ OPERATING CONDITION сΡ 41 DENSITY @ OPERATING CONDITION kg/m³ 42 SUSPENDED SOLIDS (%) SOLIDIFIES AT ROOM TEMPERATURE 43 M.M. / Z / Cp/Cv MANUFACTURER WIKA OR SILMILAR 49

NOTES:

50 MODEL









TITLE

SHEET:

13 de 61 REV.:

PRESSURE GAUGE SANITARY

								2
	1	INSTRUMENT TAG NUMBER				PI	-110508	
	2	SERVICE				CLEAN COMPR	RESSED AIR SUPPLY	
	3	P&ID				7A	-Z-0-2-08	
	4	PIPE LINE	EQUIPMENT NUM	1BER	3/4"-GW0S-110	0523-CS1-CC	-	
ER	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	1 270 Gr. TP316L	
GENERAL		AREA CLASSIFICATION					CLASSIFIED	
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	
		CERTIFICATES					ERAL NOTES 6)	
	9				(022 0211210121001200)			
\vdash		TYPE OF MEASUREMENT				Г	DIRECT	
		MOUNTING					_OCAL	
		DIAL DIAMETER					14 mm	
		SCALE COLOR	BACKGROUND C	OL OR	BLA		l whit	
		PRECISION	BACKGROUNDC	OLOK	BLA		 NAL VALUE "RANGE"	
F		MATERIAL CASE	DESCULITION		0.040		S POLISHED	
JME		RANGE	RESOLUTION		0 @ 10.0	-	0,1	<u> </u>
NSTRUMENT		RING TYPE	RING MATERIAL		BAYO		304S	
.SNI		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NF		ВОТТО	
	_	SENSOR TYPE	MATERIAL SENS		BOUR		316S	
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	3168	SS	316S	S
		BALANCED POINTER					YES	
	22	MICROMETRIC ADJUSTMENT O	F ZERO				YES	
	23	FRONT TYPE	WINDOWS		SOL	ID	GLASS SEG. TRANSP. MIN. 75%	
	24	FILLING	FLUID		YE	S	GLYCE	RIN
	25	SEAL DIAPHRAGM			NO			
	26	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	-		-	
	27	SEAL FILLING FLUID					-	
	28	WET PART MATERIAL				316LSS (SEE 0	GENERAL NOTES 4)	
	29	CAPILLARY LENGTH				NOT	REQUIRED	
	30	CAPILLARY MATERIAL				NOT	REQUIRED	
S.	31	PULSATION DAMPER				NOT	REQUIRED	
ACCESSORIES	32	MATERIAL				NOT	REQUIRED	
SSC	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REC	QUIRED	NOT REQI	JIRED
SCE	34	SIPHON TUBE				NOT	REQUIRED	
Α	35	MATERIAL				NOT	REQUIRED	
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REC	QUIRED	NOT REQU	JIRED
	37	OVERPRESSURE PROTECTOR	-			NOT	REQUIRED	
	38	MATERIAL				NOT	REQUIRED	
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REC	QUIRED	NOT REQU	JIRED
	46	TAGGING	•			YES (SEE GE	ENERAL NOTES 2)	
	40							
	36	FLUID	PHYSICAL STATE		WAT	ER	LIQUI	D
SN	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C
TIO	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g
ΙQN	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE		-	°(
100		VISCOSITY @ OPERATING CON	DITION		-		cP	
ING		DENSITY @ OPERATING CONDI			-		kg/m³	
RA1		SUSPENDED SOLIDS (%)					-	
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	TURE				-	
$\lceil \ \rceil$		M.M. / Z / Cp/Cv			- -			
		MANUFACTURER			- WIKA OR SILMILAR			
		MODEL						
L_					<u> </u>			

NOTES:









TITLE

SHEET: 14 de 61

REV.:

PRESSURE GAUGE SANITARY

								2
	1	INSTRUMENT TAG NUMBER				PI	-110509	
	2	SERVICE				CHILLED WAT	TER LOOP RETURN	
	3	P&ID				7A-	-Z-0-2-08	
∀	4	PIPE LINE	EQUIPMENT NUM	BER	1/2"-GW0R-1105	521-CS1-CC	-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L	
l lie	6	AREA CLASSIFICATION			NOT CLASSIFIED			
-		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES			(SEE GENERAL NOTES 6)			
	9						,	
	_	TYPE OF MEASUREMENT					DIRECT	
	_	MOUNTING			LOCAL			
		DIAL DIAMETER					14 mm	
		SCALE COLOR	BACKGROUND CO	OLOR	BLAC		whi	TE
		PRECISION					I NAL VALUE "RANGE	
	L	MATERIAL CASE					POLISHED	
Ι	_	RANGE	RESOLUTION		0 @ 6 ba		0,	 1
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON		304	
STR		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT		BOTT	
Ĭ		SENSOR TYPE	MATERIAL SENSO		BOURD		316	
		MATERIAL SOQUETE	MECHANISM MAT		3168		316	
		BALANCED POINTER	INICOTATION WAT	LINAL	3100	J	YES	
		MICROMETRIC ADJUSTMENT O	E ZEDO				YES	
		FRONT TYPE					ANCD MIN 750/	
	_		E WINDOWS FLUID				GLASS SEG. TRANSP. MIN. 75% GLYCERIN	
_	_	FILLING FLUID SEAL DIAPHRAGM			YES		NO GLTC	EKIN
	-	CONNECTION INSTRUMENT PROCESS CONNECTION					NO	
					-			
		SEAL FILLING FLUID WET PART MATERIAL				2161 00 (000	- CENERAL NOTES 4)	
	-	CAPILLARY LENGTH				•	GENERAL NOTES 4) REQUIRED	<u> </u>
	30	CAPILLARY MATERIAL			NOT REQUIRED			
		PULSATION DAMPER			NOT REQUIRED			
ACCESSORIES		MATERIAL			NOT REQUIRED			
SOR	_	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQU		NOT REC	JUIDED
ES		SIPHON TUBE	FROCESS CONNE	ECTION	NOTREGO		REQUIRED	ZOINED
ACC	-							
		MATERIAL CONNECTION INSTRUMENT	DDOCESS CONNE	CTION	NOT BEOL		REQUIRED	OLUBED
			PROCESS CONNE	ECTION	NOT REQU		NOT REC	ZUIKED
		OVERPRESSURE PROTECTOR					REQUIRED	
		MATERIAL CONNECTION INSTRUMENT	PROCESS CONNE	CTION	NOT BEOL		REQUIRED	OLUBED
		CONNECTION INSTRUMENT	PROCESS COMM	ECTION	NOT REQI		NOT REC	ZUIKED
	46	TAGGING				TES (SEE GI	ENERAL NOTES 2)	
<u> </u>	40	FLUID	DUVELCAL STATE		\A/ATE	Ъ	1101	IID
l o		FLUID	PHYSICAL STATE		WATE	.rt	LIQU	°C صاد
Ν̈́Ο		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g
l S		DESIGN PRESSURE	DESIGN TEMPER	MIURE	-			°C
NG	40	VISCOSITY @ OPERATING COND			-		cP ka/m³	
ĭ¥		DENSITY @ OPERATING CONDI	HUN		-		kg/m³	
PEF		SUSPENDED SOLIDS (%)	ATURE				-	
0		SOLIDIFIES AT ROOM TEMPERA	TIURE				-	
<u> </u>	-	M.M. / Z / Cp/Cv				10/11/0	-	
		MANUFACTURER			WIKA OR SILMILAR			
L_	50	MODEL			<u> </u>			

NOTES:









NUMBER: CLIENT NR: PRD-AIC-DSH-023 569-DB7A-AIC-712-004

TITLE

15 de 61

REV.: 2

PRESSURE GAUGE SANITARY

INSTRUMENT TAG NUMBER PI-110510 2 SERVICE CHILLED WATER LOOP RETURN P&ID 7A-Z-0-2-08 3 3/4"-GW0R-110524-CS1-CC PIPE LINE **EQUIPMENT NUMBER** 4 EQUIPMENT MATERIAL / PIPE ASTM A270 Gr. TP316L AREA CLASSIFICATION NOT CLASSIFIED **ENCLOSURE CLASSIFICATION** IP 65 (MÍN.) CONF. NBR IEC 60529 CERTIFICATES (SEE GENERAL NOTES 6) 8 TYPE OF MEASUREMENT DIRECT 10 MOUNTING LOCAL 11 12 DIAL DIAMETER 114 mm 13 SCALE COLOR BACKGROUND COLOR WHITE BLACK PRECISION 1% OF THE FINAL VALUE "RANGE" 14 MATERIAL CASE 304SS POLISHED 15 INSTRUMEN' 16 RANGE RESOLUTION 0 @ 6 bar-g 0.1 17 RING TYPE RING MATERIAL **BAYONET** 304SS 18 CONEX. PROCES. / ACESS. CONNECTION POSITION воттом 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR **BOURDON** 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS BALANCED POINTER YES MICROMETRIC ADJUSTMENT OF ZERO YES 22 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 75% 24 FILLING FLUID YES **GLYCERIN** SEAL DIAPHRAGM 25 NO CONNECTION INSTRUMENT PROCESS CONNECTION SEAL FILLING FLUID 27 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 29 CAPILLARY LENGTH NOT REQUIRED CAPILLARY MATERIAL 30 NOT REQUIRED PULSATION DAMPER NOT REQUIRED 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED SIPHON TUBE NOT REQUIRED 34 NOT REQUIRED 35 MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 36 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2) TAGGING 46 40 FLUID PHYSICAL STATE WATER LIQUID 36 37 MINIMUM TEMPERATURE NORMAL MAXIMUM 1,4 °C OPERATING CONDITIONS 38 MINIMUM PRESSURE NORMAL MAXIMUM 2,5 bar-a 39 DESIGN PRESSURE DESIGN TEMPERATURE °C 40 VISCOSITY @ OPERATING CONDITION сΡ 41 DENSITY @ OPERATING CONDITION kg/m³ 42 SUSPENDED SOLIDS (%) SOLIDIFIES AT ROOM TEMPERATURE 43 M.M. / Z / Cp/Cv MANUFACTURER WIKA OR SILMILAR 49

NOTES:

50 MODEL









TITLE

SHEET: 16 de 61

REV.:

2

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER			Pl	-110601			
	2	SERVICE			CHILLED WA	TER LOOP RETURN			
	3	P&ID			7A	-Z-0-2-08			
뒿	4	PIPE LINE	EQUIPMENT NUM	IBER	2"-GW0S-110617-CS1-CC	-			
GENERAL	5	EQUIPMENT MATERIAL / PIPE			ASTM A2	270 Gr. TP316L			
뜅	6	AREA CLASSIFICATION			NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) Co	ONF. NBR IEC 60529			
	8	CERTIFICATES			(SEE GENERAL NOTES 6)				
	9								
	10	TYPE OF MEASUREMENT				DIRECT			
	11	MOUNTING			LOCAL				
	12	DIAL DIAMETER			1	14 mm			
	13	SCALE COLOR	BACKGROUND CO	OLOR	BLACK	WHIT	TE		
		PRECISION			1% OF THE FIN	I IAL VALUE "RANGE"			
		MATERIAL CASE				POLISHED			
Ä		RANGE	RESOLUTION		0 @ 6 bar-g	0,1			
l ME		RING TYPE	RING MATERIAL		BAYONET	3048	is.		
INSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	ISITION	1/2" NPT (M)	BOTT			
ΙΞ̈́		SENSOR TYPE	MATERIAL SENSO		BOURDON	3169			
		MATERIAL SOQUETE	MECHANISM MAT		316SS	3168			
		BALANCED POINTER	INICOTANIONINAT	LIVIAL	31000	YES			
	- ·	MICROMETRIC ADJUSTMENT O	OE ZERO			YES			
		FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRA	NCD MIN 759/		
	-				YES	GLASS SEG. TRA			
	_	FILLING FLUID SEAL DIAPHRAGM			TES		IKIN		
	_					NO			
		CONNECTION INSTRUMENT PROCESS CONNECTION			-	-			
		SEAL FILLING FLUID			2461.66 (655	-			
	-	WET PART MATERIAL				GENERAL NOTES 4) REQUIRED			
		CAPILLARY LENGTH				NOT REQUIRED			
		CAPILLARY MATERIAL							
ES		PULSATION DAMPER				REQUIRED			
ACCESSORIES		MATERIAL CONNECTION INSTRUMENT	DDOGEGG CONNE	CTION		REQUIRED	LUDED		
ESS		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQUIRED	NOT REQ	UIKED		
ACC		SIPHON TUBE				REQUIRED			
`		MATERIAL	I			REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQUIRED	NOT REQ	UIRED		
		OVERPRESSURE PROTECTOR				REQUIRED			
		MATERIAL	Innones as:	-071011		REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONNE	=CTION	NOT REQUIRED	NOT REQ	UIKED		
	46	TAGGING			YES (SEE G	ENERAL NOTES 2)			
	40	511115	Inux(010 ** * *** ***			.,=	15		
, n		FLUID	PHYSICAL STATE	1	WATER	LIQU			
Ñ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	1,4	°C		
H	_	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	2,5	bar-g		
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-		С		
Š		VISCOSITY @ OPERATING COM			-	cP			
↓ 		DENSITY @ OPERATING COND	DITION		-	kg/m³			
ĔŖ		SUSPENDED SOLIDS (%)				-			
ö		SOLIDIFIES AT ROOM TEMPER	ATURE			-			
		M.M. / Z / Cp/Cv			-				
		49 MANUFACTURER			WIKA OR SILMILAR				
		MODEL			WIKA	OR SILMILAR			

NOTES:









TITLE

SHEET: 17 de 61

REV.:

PRESSURE GAUGE SANITARY

Ш.								2	
	1	INSTRUMENT TAG NUMBER				PI	-110602		
	2	SERVICE				CHILLED WA	TER LOOP SUPLLY		
	3	P&ID				7A	-Z-0-2-09		
∀	4	PIPE LINE	EQUIPMENT NUM	MBER	1/2"-GW0S-1106	618-CS1-CC	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE	•			ASTM A2	270 Gr. TP316L		
GE	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 6)				
	9					(OLE SEINERVIERO S)			
	10	TYPE OF MEASUREMENT			DIRECT				
	11	MOUNTING			LOCAL				
	12	DIAL DIAMETER				1	14 mm		
		SCALE COLOR	BACKGROUND C	OLOR	BLAC	K	l whit	E	
		PRECISION					I NAL VALUE "RANGE"		
		MATERIAL CASE					POLISHED		
Ϋ́	-	RANGE	RESOLUTION		0 @ 6 b		0,1		
UME	_	RING TYPE	RING MATERIAL		BAYON		304S	S	
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP		ВОТТО		
ΙĔ		SENSOR TYPE	MATERIAL SENS		BOURE		316S		
		MATERIAL SOQUETE	MECHANISM MAT		3168		3168		
	-	BALANCED POINTER	INICOTIZATION WAT	LINAL	0100		YES		
		MICROMETRIC ADJUSTMENT O	E 7EBO				YES		
					SOLID			NCD MIN 750/	
		FILLING	ONT TYPE WINDOWS LING FLUID				GLASS SEG. TRANSP. MIN. 75% GLYCERIN		
_		SEAL DIAPHRAGM		YES	•	NO GLTCE	KIIN		
			_		I				
		CONNECTION INSTRUMENT PROCESS CONNECTION SEAL FILLING FILLID			-		-		
		SEAL FILLING FLUID				2461.00 (055.4	-		
		WET PART MATERIAL				`	GENERAL NOTES 4)		
		CAPILLARY LENGTH					REQUIRED		
		CAPILLARY MATERIAL					REQUIRED		
IES	-	PULSATION DAMPER					REQUIRED		
ACCESSORIES		MATERIAL	Innocess co	FOTION	NOTES		REQUIRED		
ESS		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REQ	UIRED	
4CC		SIPHON TUBE					REQUIRED		
`		MATERIAL	1				REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REQ	UIRED	
		OVERPRESSURE PROTECTOR					REQUIRED		
		MATERIAL	1				REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REQ	UIRED	
		TAGGING				YES (SEE GI	ENERAL NOTES 2)		
	40		T				Γ		
 		FLUID	PHYSICAL STATE	1	WATE	ER T	LIQU		
OPERATING CONDITIONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C	
Į Į		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g	
NO.		DESIGN PRESSURE	DESIGN TEMPER	ATURÉ	-			С	
16 C		VISCOSITY @ OPERATING CON			-		сР		
AT!		DENSITY @ OPERATING CONDI	TION		-		kg/m³		
ER/		SUSPENDED SOLIDS (%)					-		
占		SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
Ш		M.M. / Z / Cp/Cv			·				
		MANUFACTURER			WIKA OR SILMILAR				
1	50	MODEL							

NOTES:









TITLE

SHEET: 18 de 61

REV.:

2

PRESSURE GAUGE SANITARY

—	Г.	INIOTEN IN IEN III	STRUMENT TAG NUMBER			PI-110603			
	1	INSTRUMENT TAG NUMBER							
		SERVICE					TER LOOP SUPLLY		
	3	P&ID				7A-	-Z-0-2-09		
₹	4	PIPE LINE	EQUIPMENT NUM	BER	3/4"-GW0S-1106	619-CS1-CC	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	70 Gr. TP316L		
8	6	AREA CLASSIFICATION				NOT C	CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	NF. NBR IEC 60529		
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
	9								
	10	TYPE OF MEASUREMENT				С	IRECT		
	11	MOUNTING				L	.OCAL		
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND CO	DLOR	BLAC	K	WHI	TE	
	14	PRECISION	I			1% OF THE FIN	IAL VALUE "RANGE"	1	
1.	15	MATERIAL CASE				304SS	POLISHED		
H	16	RANGE	RESOLUTION		0@6b	ar-g	0,1		
ĮΨ	17	RING TYPE	RING MATERIAL		BAYON	NET	3048	SS	
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP	Г (М)	ВОТТ	OM	
Z		SENSOR TYPE	MATERIAL SENSO)R	BOURE	` ′	3168	SS	
		MATERIAL SOQUETE	MECHANISM MAT		316S		3168	SS	
		BALANCED POINTER	l				YES		
	22	MICROMETRIC ADJUSTMENT O	F ZERO				YES		
		FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRA	NSP. MIN. 75%	
		FILLING	FLUID		YES	<u> </u>	GLYCI		
	_	SEAL DIAPHRAGM					NO		
	-	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	_		-		
		SEAL FILLING FLUID					-		
		WET PART MATERIAL				316LSS (SEE (GENERAL NOTES 4)		
		CAPILLARY LENGTH					REQUIRED		
	-	CAPILLARY MATERIAL					REQUIRED		
١		PULSATION DAMPER			NOT REQUIRED NOT REQUIRED				
l ä		MATERIAL					REQUIRED		
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ		NOT REC	UIRED	
CES		SIPHON TUBE	1				REQUIRED		
Ϋ́		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNE	CTION	NOT REQ		NOT REC	UIRED	
		OVERPRESSURE PROTECTOR					REQUIRED	(0.1.12)	
		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ		NOT REC	UIRED	
		TAGGING		-0.1.0.1			ENERAL NOTES 2)	(0.1.12)	
	40					2 (322 01			
-		FLUID	PHYSICAL STATE		WATE	-R	LIQU	IID	
<u>s</u>		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C	
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g	
<u> </u>		DESIGN PRESSURE	DESIGN TEMPERA		_		I	°C	
Į.		VISCOSITY @ OPERATING CON			_		cP	-	
NG		DENSITY @ OPERATING CONDI					kg/m³		
₹		SUSPENDED SOLIDS (%)			<u> </u>		-		
Į į		SOLIDIFIES AT ROOM TEMPERA	ATURE						
1°			NI OINE		-				
	_	M.M. / Z / Cp/Cv			- WIKA OR SII MII AR				
		MANUFACTURER MODEL			WIKA OR SILMILAR				
L		MODEL							

NOTES:









TITLE

19 de 61

PRESSURE GAUGE SANITARY

REV.:

'		CORE CASCE CANTA						2
	1	INSTRUMENT TAG NUMBER				PI	-110604	
	2	SERVICE				CHILLED WA	TER LOOP RETURN	
H	3	P&ID				7A	-Z-0-2-09	
	4	PIPE LINE	EQUIPMENT NUM	IBER	2"-GW0R-1106	20-CS1-CC	_	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	1 270 Gr. TP316L	
[평	6	AREA CLASSIFICATION			NOT CLASSIFIED			
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529			
ΙI	8	CERTIFICATES			(SEE GENERAL NOTES 6)			
H	9							
Н	_	TYPE OF MEASUREMENT			DIRECT			
H		MOUNTING					LOCAL	
H		DIAL DIAMETER					14 mm	
H		SCALE COLOR	BACKGROUND C		BLAC		l wh	TE
H	_	PRECISION	BACKCROON	OLOIK			 NAL VALUE "RANGE	
H		MATERIAL CASE					S POLISHED	
눌		RANGE	RESOLUTION		0 @ 6 b		0,2	<u> </u>
] 		RING TYPE	RING MATERIAL		BAYON		304	
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PC	POLITION			BOT1	
S	_	SENSOR TYPE	MATERIAL SENSO		1/2" NPT	• •		
					BOURD		316	
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	S	316	55
		BALANCED POINTER	F 7500		YES YES			
		MICROMETRIC ADJUSTMENT O			2011	SOLID		ANOD MIN 750/
H		FRONT TYPE	WINDOWS				GLASS SEG. TRA	
\vdash	-	FILLING	FLUID		YES	1	GLYC	ERIN
	_						NO I	
H		CONNECTION INSTRUMENT PROCESS CONNECTION SEAL FILLING FLUID			-		-	
H		SEAL FILLING FLUID				040100 (055	-	
H		WET PART MATERIAL				· · · · · · · · · · · · · · · · · · ·	GENERAL NOTES 4)	
H		CAPILLARY LENGTH					REQUIRED	
H		CAPILLARY MATERIAL					REQUIRED	
ES	_	PULSATION DAMPER					REQUIRED	
l R		MATERIAL	Innocess co	-071011	NOT DECL		REQUIRED	
ESS		CONNECTION INSTRUMENT	PROCESS CONN	=CTION	NOT REQI		NOT REC	JUIRED
ACCESSORIES		SIPHON TUBE					REQUIRED	
		MATERIAL	1				REQUIRED	
H			PROCESS CONN	ECTION	NOT REQI		NOT REC	QUIRED
H		OVERPRESSURE PROTECTOR					REQUIRED	
		MATERIAL	1				REQUIRED	
H			PROCESS CONN	=CTION	NOT REQI		NOT REC	QUIRED
H		TAGGING				YES (SEE GI	ENERAL NOTES 2)	
Н	40	ELLUB.	Inuverse:			-		up.
[[_	FLUID	PHYSICAL STATE	1	WATE	:K I	LIQU	
Ñ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C
		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g
Š		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-			°C
g		VISCOSITY @ OPERATING CON					cP	
ATI		DENSITY @ OPERATING CONDI	HON				kg/m³	
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)	TUDE				-	
0		SOLIDIFIES AT ROOM TEMPERA	ATURE				-	
$\vdash \vdash$	_	M.M. / Z / Cp/Cv			-			
	-	MANUFACTURER				WIKA C	OR SILMILAR	
Ш	50	MODEL						

NOTES:









TITLE

SHEET: 20 de 61

REV.:

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER			PI-	-110605			
	2	SERVICE			CLEAN COMPRESSED AIR SI	JPPLY FRON LYO FRE	EZE DRYER		
	3	P&ID			7A-	Z-0-2-09			
\AL	4	PIPE LINE	EQUIPMENT NUM	IBER	7A-1"-CAP-110613-SS10-NI	-			
GENERAL	5	EQUIPMENT MATERIAL / PIPE			ASTM A2	ASTM A270 Gr. TP316L			
GE	6	AREA CLASSIFICATION			NOT C	NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES			(SEE GENERAL NOTES 6)				
	9								
	10	TYPE OF MEASUREMENT			D	IRECT			
	11	MOUNTING			L	OCAL			
	12	DIAL DIAMETER			1	14 mm			
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACK	WHITE			
	14	PRECISION			1% OF THE FIN	IAL VALUE "RANGE"			
	15	MATERIAL CASE			304SS	POLISHED			
ΞNΤ	16	RANGE	RESOLUTION		0 @ 10.0 bar-g	0,1			
IM	17	RING TYPE	RING MATERIAL		BAYONET	304SS			
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M)	BOTTON	1		
Z	19	SENSOR TYPE	MATERIAL SENSO	OR	BOURDON	316SS			
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316SS	316SS			
	21	BALANCED POINTER				YES			
	22	MICROMETRIC ADJUSTMENT O	OF ZERO			YES			
	23	FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRANS	SP. MIN. 75%		
	24	FILLING	FLUID		YES	GLYCER	N		
	25	SEAL DIAPHRAGM			YES IN AISI 316L (S	SEE GENERAL NOTES	4)		
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			BY MANUFACTURER	1/2"-TRI-CLAMP-A	•		
	27	SEAL FILLING FLUID			MEDICAL WHITE MINE	RAL OIL (FDA-APPRO	/ED)		
	28	WET PART MATERIAL				SENERAL NOTES 4)	· ·		
	29	CAPILLARY LENGTH			NOT I	REQUIRED			
	30	CAPILLARY MATERIAL			NOT	REQUIRED			
(C)	31	PULSATION DAMPER			NOT I	REQUIRED			
ACCESSORIES	32	MATERIAL			NOT I	REQUIRED			
sso	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQUI	RED		
CE	34	SIPHON TUBE			NOT	REQUIRED			
AC	35	MATERIAL			NOT I	REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQUI	RED		
	37	OVERPRESSURE PROTECTOR	?		NOT	REQUIRED			
	38	MATERIAL			NOT I	REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQUI	RED		
	46	TAGGING			YES (SEE GE	ENERAL NOTES 2)			
	40								
	36	FLUID	PHYSICAL STATE		CLEAN AIR	AIR			
NS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,		°C		
ITIO	38	MINIMUM PRESSURE	NORMAL	MAXIMUM			bar-g		
OPERATING CONDITIONS	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE		°C			
3 CC	40	VISCOSITY @ OPERATING CO	NDITION			сР			
JIN	41	DENSITY @ OPERATING COND	DITION			kg/m³			
ERA.	42	SUSPENDED SOLIDS (%)				NOT			
OPE	43	SOLIDIFIES AT ROOM TEMPER	ATURE			NOT			
	44 M.M. / Z / Cp/Cv			11					
	44				WIKA OR SILMILAR				
	_	MANUFACTURER			_				

NOTES:









NUMBER: CLIENT NR: PRD-AIC-DSH-023 569-DB7A-AIC-712-004

TITLE

21 de 61 REV.:

PRESSURE GAUGE SANITARY

2 INSTRUMENT TAG NUMBER PI-110606 2 SERVICE GASEOUS NITROGEN FROM DISTRIBUTION - LYO FREEZE DRYER P&ID 3 7A-7-0-2-09 7A-1/2"-GNP-110627-SS10-NI PIPE LINE **EQUIPMENT NUMBER** 4 EQUIPMENT MATERIAL / PIPE ASTM A270 Gr. TP316L AREA CLASSIFICATION NOT CLASSIFIED **ENCLOSURE CLASSIFICATION** IP 65 (MÍN.) CONF. NBR IEC 60529 CERTIFICATES (SEE GENERAL NOTES 6) 8 TYPE OF MEASUREMENT DIRECT 10 MOUNTING LOCAL 11 12 DIAL DIAMETER 114 mm 13 SCALE COLOR BACKGROUND COLOR WHITE BLACK PRECISION 1% OF THE FINAL VALUE "RANGE" 14 15 MATERIAL CASE 304SS POLISHED INSTRUMEN' 16 RANGE RESOLUTION 0 @ 6.0 bar-g 0.1 17 RING TYPE RING MATERIAL **BAYONET** 304SS 18 CONEX. PROCES. / ACESS. CONNECTION POSITION воттом 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR **BOURDON** 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS BALANCED POINTER YES MICROMETRIC ADJUSTMENT OF ZERO YES 22 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 75% 24 FILLING FLUID YES **GLYCERIN** SEAL DIAPHRAGM 25 YES IN AISI 316L (SEE GENERAL NOTES 4) CONNECTION INSTRUMENT PROCESS CONNECTION BY MANUFACTURER 1/2"-TRI-CLAMP-ASME BPE MEDICAL WHITE MINERAL OIL (FDA-APPROVED) SEAL FILLING FLUID 27 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 29 CAPILLARY LENGTH NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED PULSATION DAMPER NOT REQUIRED 31 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED **NOT REQUIRED** SIPHON TUBE NOT REQUIRED 34 NOT REQUIRED 35 MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 36 OVERPRESSURE PROTECTOR NOT REQUIRED 37 38 MATERIAL NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2) TAGGING 46 40 36 FLUID PHYSICAL STATE NITROGEN GAS 37 MINIMUM TEMPERATURE NORMAL MAXIMUM °C OPERATING CONDITIONS 38 MINIMUM PRESSURE NORMAL MAXIMUM bar-a 39 DESIGN PRESSURE DESIGN TEMPERATURE °C 40 VISCOSITY @ OPERATING CONDITION сΡ 41 DENSITY @ OPERATING CONDITION ka/m³ 42 SUSPENDED SOLIDS (%) NOT SOLIDIFIES AT ROOM TEMPERATURE 43 NOT M.M. / Z / Cp/Cv / / MANUFACTURER WIKA OR SILMILAR 49

NOTES:

50 MODEL









TITLE

SHEET:

PRESSURE GAUGE SANITARY

22 de 61 REV.:

PK	ES	SURE GAUGE SANTA	ARY					2 REV.:
	l 1	INSTRUMENT TAG NUMBER				PI	-110607	
	2	SERVICE					TER LOOP RETURN	
		P&ID					-Z-0-2-09	
			EQUIPMENT NUM	/BFR	3/4"-GW0R-1106			
GENERAL		EQUIPMENT MATERIAL / PIPE					I 270 Gr. TP316L	
H	_	AREA CLASSIFICATION			NOT CLASSIFIED			
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES			(SEE GENERAL NOTES 6)			
	9	OLIVIII IO/VIEO			(622 6211218121161266)			
-		TYPE OF MEASUREMENT			DIRECT			
		MOUNTING					LOCAL	
		DIAL DIAMETER					14 mm	
		SCALE COLOR	BACKGROUND C	OI OP	BLAC		WHI	ITE
	_	PRECISION	BACKGROUNDC	OLOK			 NAL VALUE "RANGE	
Ιż		MATERIAL CASE	DESCULITION		0.00.6		S POLISHED	
JME		RANGE	RESOLUTION		0 @ 6 b	-	0,1	
NSTRUMENT		RING TYPE	RING MATERIAL	NOITION	BAYON		304	
S Z		CONEX. PROCES. / ACESS.	CONNECTION PC		1/2" NPT		BOTT	
	-	SENSOR TYPE	MATERIAL SENSO		BOURD		316	
		MATERIAL SOQUETE	MECHANISM MAT	IERIAL	316S	S	316	88
	<u> </u>	BALANCED POINTER			YES			
		MICROMETRIC ADJUSTMENT OF	ı				YES	
				SOLI		GLASS SEG. TRA		
<u> </u>	_	FILLING	FLUID		YES		GLYC	ERIN
	-	SEAL DIAPHRAGM CONNECTION INSTRUMENT PROCESS CONNECTION					NO	
		CONNECTION INSTRUMENT PROCESS CONNECTION SEAL FILLING FILLID			-		-	
		SEAL FILLING FLUID					-	
		WET PART MATERIAL				316LSS (SEE (GENERAL NOTES 4)	1
		CAPILLARY LENGTH					REQUIRED	
		CAPILLARY MATERIAL			NOT REQUIRED			
ES		PULSATION DAMPER					REQUIRED	
ACCESSORIES		MATERIAL	1				REQUIRED I	
ESS		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQI		NOT REC	QUIRED
ΙÖ		SIPHON TUBE					REQUIRED	
`		MATERIAL				NOT	REQUIRED	
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQI		NOT REC	QUIRED
		OVERPRESSURE PROTECTOR					REQUIRED	
		MATERIAL					REQUIRED	
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQI		NOT REC	QUIRED
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)	
	40						<u> </u>	
1,		FLUID	PHYSICAL STATE	1	WATE	ER I	LIQI	
lő		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C
E		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g
NO.			DESIGN TEMPER	ATURE	-			°C
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		VISCOSITY @ OPERATING CON			-		cP	
ATI		DENSITY @ OPERATING CONDI	HON		-		kg/m³	
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)	TUDE				-	
Ō	_	SOLIDIFIES AT ROOM TEMPERA	ATURE				-	
<u> </u>	-	M.M. / Z / Cp/Cv			-			
	_	MANUFACTURER			WIKA OR SILMILAR			
	50	MODEL	DDEL					

NOTES:









TITLE

SHEET: 23 de 61

REV.:

PRESSURE GAUGE SANITARY

	LO	SURE GAUGE SANII	ACI					2
	1	INSTRUMENT TAG NUMBER			T	PI	-110608	
	2	SERVICE				3/4"-GW0S	-110619-CS1-CC	
	3	P&ID				7A:	-Z-0-2-09	
7	4	PIPE LINE	EQUIPMENT NUI	MBER				-
GENERAL	5	EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L			
SEN		AREA CLASSIFICATION				NOT (CLASSIFIED	
Ŭ		ENCLOSURE CLASSIFICATION	J				ONF. NBR IEC 6052	9
	8	CERTIFICATES	<u> </u>		(SEE GENERAL NOTES 6)			
	9	OEI (TII 10/(TEO				(022 0211	210121101200)	
	_	TYPE OF MEASUREMENT				Г	DIRECT	
		MOUNTING					LOCAL	
		DIAL DIAMETER					14 mm	
		SCALE COLOR	BACKGROUND (COLOR	BLAC			IITE
		PRECISION	BACKGROOND	COLOR				
		MATERIAL CASE						<u> </u>
F			DECOLUTION		0.00		S POLISHED	4
NSTRUMENT		RANGE	RESOLUTION		0 @ 6 b		0,	
TR		RING TYPE	RING MATERIAL	COLTION	BAYON			ISS
NS.		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NP			TOM
	_	SENSOR TYPE	MATERIAL SENS		BOURE			SSS
		MATERIAL SOQUETE	MECHANISM MA	TERIAL	316S	S	-	SSS
		BALANCED POINTER			YES			
		MICROMETRIC ADJUSTMENT	_			YES SOLID GLASS SEG TRANSE		
	_				SOLI		GLASS SEG. TR	
	24	FILLING	FLUID		YES	5	GLYC	ERIN
	25						NO	
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			-			-
	27	SEAL FILLING FLUID					-	
	28	WET PART MATERIAL				316LSS (SEE	GENERAL NOTES 4)
	29	CAPILLARY LENGTH				NOT	REQUIRED	
	30	CAPILLARY MATERIAL				NOT	REQUIRED	
S	31	PULSATION DAMPER				NOT	REQUIRED	
ACCESSORIES	32	MATERIAL			NOT REQUIRED			
SS	33	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQUIRED NOT REQUIRED			QUIRED
300	34	SIPHON TUBE				NOT	REQUIRED	
₹	35	MATERIAL				NOT	REQUIRED	
	36	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQ	UIRED	NOT RE	QUIRED
	37	OVERPRESSURE PROTECTOR	₹			NOT	REQUIRED	
	38	MATERIAL				NOT	REQUIRED	
	39	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQ	UIRED	NOT RE	QUIRED
	46	TAGGING	_			YES (SEE GE	ENERAL NOTES 2)	
	40							
	36	FLUID	PHYSICAL STATI	E	WATE	R	LIQ	UID
SN	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C
E	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g
ND ND	39	DESIGN PRESSURE	DESIGN TEMPER	RATURE	-	•		°C
OPERATING CONDITIONS	40	VISCOSITY @ OPERATING CO	NDITION		-		cР	
JINC	41	DENSITY @ OPERATING COND	DITION		-		kg/m³	
Æ	42	SUSPENDED SOLIDS (%)					-	
OPE		SOLIDIFIES AT ROOM TEMPER	RATURE				-	
_	44	M.M. / Z / Cp/Cv					-	
		·			- WIKA OR SILMILAR			
	_	MANUFACTURER				WIKA C	OR SILMILAR	

NOTES:









TITLE

SHEET:

24 de 61 REV.:

PRESSURE GAUGE SANITARY

PR	E5	SURE GAUGE SANITA	AK Y			l R	2	
	1	INSTRUMENT TAG NUMBER			F	PI-110609		
		SERVICE				TER LOOP RETURN		
		P&ID				A-Z-0-2-09		
	_	PIPE LINE	EQUIPMENT NUM	IBER	1/2"-GW0R-110621-CS1-CC	1 .		
GENERAL	· .	EQUIPMENT MATERIAL / PIPE			ASTM A	.1 .270 Gr. TP316L		
3EN		AREA CLASSIFICATION			NOT CLASSIFIED			
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES			(SEE GENERAL NOTES 6)			
	9				(OLE OLIVEINOTES S)			
	_	TYPE OF MEASUREMENT			DIRECT			
		MOUNTING				LOCAL		
		DIAL DIAMETER				114 mm		
		SCALE COLOR	BACKGROUND C	OLOR	BLACK	WHITE		
		PRECISION	<u> </u>		1% OF THE F	_I NAL VALUE "RANGE"		
	15	MATERIAL CASE			304S	S POLISHED		
ΞNΤ	16	RANGE	RESOLUTION		0 @ 6 bar-g	0,1		
I N		RING TYPE	RING MATERIAL		BAYONET	304SS		
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M)	BOTTON	И	
≧	19	SENSOR TYPE	MATERIAL SENS	OR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316SS	316SS		
	21	BALANCED POINTER				YES		
	22	MICROMETRIC ADJUSTMENT OF ZERO			YES			
	23	FRONT TYPE WINDOWS			SOLID	GLASS SEG. TRANSP. MIN. 75%		
	24	FILLING	FLUID		YES	GLYCERI	N	
	25	SEAL DIAPHRAGM				NO		
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			-	-		
	27	SEAL FILLING FLUID				-		
	28	WET PART MATERIAL			316LSS (SEE	GENERAL NOTES 4)		
	29	CAPILLARY LENGTH			NOT	REQUIRED		
	30	CAPILLARY MATERIAL			NOT	REQUIRED		
S	31	PULSATION DAMPER			NOT REQUIRED			
JRE	32	MATERIAL			NOT	REQUIRED		
SS	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUI	RED	
ACCESSORIES	34	SIPHON TUBE			NOT	REQUIRED		
<	35	MATERIAL			NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUI	RED	
	37	OVERPRESSURE PROTECTOR			NOT	REQUIRED		
		MATERIAL	1			REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUI	RED	
	-	TAGGING			YES (SEE G	SENERAL NOTES 2)		
_	40	511115	DING: 2		=	T		
(0)		FLUID	PHYSICAL STATE	1	WATER	LIQUID	20	
NO NO	<u> </u>	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	1,4	°C	
IDIT		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	2,5	bar-g	
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-	cP		
NG		VISCOSITY @ OPERATING CONDITION OF THE PROPERTY OF THE PROPERT			-			
₹		SUSPENDED SOLIDS (%)	HON		·	kg/m³		
)PEF		SOLIDIFIES AT ROOM TEMPERA	ATURE		+	-		
0		M.M. / Z / Cp/Cv	OILE		+	-		
\vdash	-	MANUFACTURER			- WIKA OR SILMILAR			
	_	MODEL			VVINA	OIL OILMILAIN		
L		IOPE						

NOTES:









TITLE

SHEET: 25 de 61

REV.:

PRESSURE GAUGE SANITARY

PR	E5	SURE GAUGE SANITA	AK Y				REV.: 2	
	1	INSTRUMENT TAG NUMBER			F	<u> </u> PI-110610	_	
		SERVICE				TER LOOP RETURN		
		P&ID				A-Z-0-2-09		
		PIPE LINE	EQUIPMENT NUM	IRFR	3/4"-GW0R-110624-CS1-CC	1 -		
ERA		EQUIPMENT MATERIAL / PIPE	Laci MENT NON			1270 Gr. TP316L		
GENERAL		AREA CLASSIFICATION			NOT CLASSIFIED			
		ENCLOSURE CLASSIFICATION						
	<u> </u>	CERTIFICATES			IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES			(SEE GENERAL NOTES 6)			
	9	TYPE OF MEASUREMENT			DIRECT			
		MOUNTING				LOCAL		
		DIAL DIAMETER				114 mm		
		SCALE COLOR	BACKGROUND C	OL OR	BLACK	T WHIT	=	
		PRECISION	BACKGROUNDC	OLOK		VVI		
		MATERIAL CASE				S POLISHED		
۲	_	RANGE	DESCULITION					
JME		RING TYPE	RESOLUTION		0 @ 6 bar-g BAYONET	0,1 304S\$	2	
NSTRUMENT			RING MATERIAL	CITION	-			
NS		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT (M)	316SS		
	-	SENSOR TYPE			BOURDON			
		MATERIAL SOQUETE BALANCED POINTER	MECHANISM MAT	ERIAL	316SS	316SS	>	
			E ZEDO		YES YES			
		MICROMETRIC ADJUSTMENT OF ZERO		SOLID	GLASS SEG. TRAN	ICD MIN 750/		
	-	FRONT TYPE WINDOWS FILLING FLUID			YES	GLASS SEG. TRAIN		
\vdash		SEAL DIAPHRAGM	FLOID		150	NO GLTCE	XIIV	
		CONNECTION INSTRUMENT PROCESS CONNECTION				I		
		SEAL FILLING FLUID			-	<u> </u>		
		SEAL FILLING FLUID WET PART MATERIAL			316LSS (SEE	GENERAL NOTES 4)		
	_	CAPILLARY LENGTH			,	REQUIRED		
		CAPILLARY MATERIAL						
		PULSATION DAMPER			NOT REQUIRED NOT REQUIRED			
IES		MATERIAL MATERIAL				REQUIRED		
SOF		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQU	IIRED	
ACCESSORIES		SIPHON TUBE	I ROCESS CONIV	LOTION		REQUIRED	JIKED	
ACC		MATERIAL				REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQU	IIRED	
		OVERPRESSURE PROTECTOR	11100200 001111	2011011		REQUIRED	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		MATERIAL				REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQU	IIRED	
		TAGGING	i noozoo oonii	2011011		GENERAL NOTES 2)	, II (LD	
	40	171001110			120 (022 0	DENTE NOTES 2)		
		FLUID	PHYSICAL STATE	 :	WATER	LIQUII		
<u>s</u>		MINIMUM TEMPERATURE	NORMAL	МАХІМИМ	-	1,4	°C	
[E		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	2,5	bar-g	
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER		-	2,0	-	
CO		VISCOSITY @ OPERATING CON		<u>-</u>		CP `		
ING		DENSITY @ OPERATING CONDI			-	kg/m³		
RAT		SUSPENDED SOLIDS (%)				-		
)PE		SOLIDIFIES AT ROOM TEMPERA	ATURE			-		
		M.M. / Z / Cp/Cv				-		
\vdash	-	MANUFACTURER			- WIKA OR SILMILAR			
	_	MODEL			YYIIVA			
L					1			

NOTES:









TITLE

26 de 61

REV.:

PRESSURE GAUGE SANITARY

Ļ								2	
	1	INSTRUMENT TAG NUMBER				PI	-380101		
	2	SERVICE			CI	LEAN COMPR	RESSED AIR SUPPLY		
	3	P&ID				7A-	-Z-0-2-01		
Æ	4	PIPE LINE	EQUIPMENT NUM	IBER	7A-1/2"-CAP-7000	007-SS1-NI	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE	•			ASTM A2	70 Gr. TP316L		
GEI	6	AREA CLASSIFICATION				NOT C	CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IF.	P 65 (MÍN.) CC	ONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 6)				
	9								
	10	TYPE OF MEASUREMENT					IRECT		
	11	MOUNTING				L	OCAL		
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACK	(WHITE		
	14	PRECISION			19	OF THE FIN	I IAL VALUE "RANGE"		
	15	MATERIAL CASE				304SS	POLISHED		
ΞNΤ	16	RANGE	RESOLUTION		0 @ 10.0 b	ar-q	0,1		
I N		RING TYPE	RING MATERIAL		BAYONE		304SS		
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT	(M)	BOTTON	1	
Z		SENSOR TYPE	MATERIAL SENSO		BOURDO		316SS		
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316SS		316SS		
		BALANCED POINTER					YES		
		MICROMETRIC ADJUSTMENT O	F ZERO				YES		
		FRONT TYPE	WINDOWS		SOLID		GLASS SEG. TRANS	SP. MIN. 75%	
	-	FILLING	FLUID		YES		GLYCERIN		
	_	SEAL DIAPHRAGM		N AISI 316L (S	SEE GENERAL NOTES				
	-	CONNECTION INSTRUMENT PROCESS CONNECTION			BY MANUFAC		1/2"-TRI-CLAMP-A	<u>'</u>	
		SEAL FILLING FLUID					i Eral oil (Fda-Appro)		
		WET PART MATERIAL					GENERAL NOTES 4)		
	29	CAPILLARY LENGTH			NOT REQUIRED				
	30	CAPILLARY MATERIAL				NOT	REQUIRED		
 	31	PULSATION DAMPER				NOT	REQUIRED		
ACCESSORIES	32	MATERIAL				NOT	REQUIRED		
SSO	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQU	IRED	NOT REQUI	RED	
CES	34	SIPHON TUBE	1			NOT I	REQUIRED		
AC	35	MATERIAL					REQUIRED		
			PROCESS CONNI	ECTION	NOT REQU		NOT REQUI	RED	
		OVERPRESSURE PROTECTOR	ı				I REQUIRED		
		MATERIAL					REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQU	IRED	NOT REQUI	RED	
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)		
	40					·			
	36	FLUID	PHYSICAL STATE		CLEAN A	JIR.	AIR		
SN SN	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,			°C	
OPERATING CONDITIONS	38	MINIMUM PRESSURE	NORMAL	MAXIMUM				bar-g	
ΩN		DESIGN PRESSURE	DESIGN TEMPER	ATURE			°C		
300	40	VISCOSITY @ OPERATING CON	DITION			I cP			
ING	41	DENSITY @ OPERATING CONDI	TION				kg/m³		
.RA	42	SUSPENDED SOLIDS (%)					NOT		
OPE		SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
	44	M.M. / Z / Cp/Cv			//				
	-	MANUFACTURER					VIKA OR SILMILAR		
		MODEL							
L		l			-1				

NOTES:









TITLE

27 de 61

PRESSURE GAUGE SANITARY

REV.:

FK	ES	SURE GAUGE SANITA	AIX I					2	
	1	INSTRUMENT TAG NUMBER				PI	-390101		
	2	SERVICE			CLEAN COMPRESSED AIR SUPPLY				
	3	P&ID			7A-Z-0-2-02				
-	4	PIPE LINE	EQUIPMENT NUM	MBER	7A-1/2"-CAP-700007-SS1-NI -			-	
GENERAL					ASTM A270 Gr. TP316L				
JEN JEN	_	AREA CLASSIFICATION			NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES					ERAL NOTES 6)	<u> </u>	
	9	02.11.110/1120				(022 02.1			
	10	TYPE OF MEASUREMENT				Г	DIRECT		
		MOUNTING					OCAL		
		DIAL DIAMETER					14 mm		
		SCALE COLOR	BACKGROUND C	OLOR	BLAC		WH	ITE	
					1% OF THE FINAL VALUE "RANGE"				
		MATERIAL CASE			POLISHED	•			
Ϋ́		RANGE RESOLUTION			0 @ 10.0		0,	1	
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON		304		
TR		CONEX. PROCES. / ACESS.	CONNECTION PO	NOITION	1/2" NPT				
SNI	_	SENSOR TYPE	MATERIAL SENS		BOURD		BOTTOM		
		MATERIAL SOQUETE MECHANISM MATERIAL			3165			316SS 316SS	
		MATERIAL SOQUETE MECHANISM MATERIAL BALANCED POINTER			0100	,	YES	.00	
		BALANCED POINTER MICROMETRIC ADJUSTMENT OF ZERO					YES		
		FRONT TYPE	windows		SOLII)	GLASS SEG. TR	ANSP MIN 75%	
	-				YES		GLYCERIN		
\vdash	_	ļ				IN AISI 316L (5	SEE GENERAL NOT		
	_				BY MANUFA	,		MP-ASME BPE	
	_	SEAL FILLING FLUID					ERAL OIL (FDA-APP		
		WET PART MATERIAL					GENERAL NOTES 4		
		CAPILLARY LENGTH				•	REQUIRED	,	
		CAPILLARY MATERIAL			NOT REQUIRED				
 		PULSATION DAMPER			NOT REQUIRED				
SES		MATERIAL MATERIAL			NOT REQUIRED				
ACCESSORIES	33	CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQU	JIRED	NOT RE	QUIRED	
CES	34	SIPHON TUBE				NOT	REQUIRED		
l A	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED		NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR			NOT REQUIRED				
	38				NOT REQUIRED				
	39	CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED NOT REQUIRED			QUIRED	
	46	TAGGING			YES (SEE GENERAL NOTES 2)				
	40								
	36	FLUID	PHYSICAL STATE		CLEAN	AIR	Α	R	
NS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,			°C	
TIC	38	MINIMUM PRESSURE	NORMAL	MAXIMUM				bar-g	
DNC	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE				°C	
G C(40	VISCOSITY @ OPERATING CON	DITION				сР		
Ň	41	DENSITY @ OPERATING CONDI	TION				kg/m³		
OPERATING CONDITIONS	42	SUSPENDED SOLIDS (%)					NOT		
P	43	SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
	44	M.M. / Z / Cp/Cv					' /		
	49	MANUFACTURER				WIKA C	OR SILMILAR		
	50	MODEL							

NOTES:









TITLE

SHEET: 28 de 61

REV.:

PRESSURE GAUGE SANITARY

PK	ES	SURE GAUGE SANITA	AR Y					2 REV.:	
	1	INSTRUMENT TAG NUMBER				Pi	-380202		
GENERAL					CHILLED WATER LOOP SUPLLY				
		·			7A-Z-0-2-01				
	-				1"-GW0S-9800188-CS1-CC -				
		EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L				
I I		AREA CLASSIFICATION			NOT CLASSIFIED				
							ONF. NBR IEC 60529		
	8	CERTIFICATES				. ,	ERAL NOTES 6)	'	
	9	CERTIFICATES				(OLL OLIV	ENAL NOTES 0)		
	_	TYPE OF MEASUREMENT				г	DIRECT		
	-	MOUNTING					LOCAL		
		DIAL DIAMETER					14 mm		
			BACKGBOLIND C		BLAC		l wh	ITE	
	-	SCALE COLOR BACKGROUND COLOR					 NAL VALUE "RANGE		
		PRECISION MATERIAL CASE					S POLISHED		
F		MATERIAL CASE RANGE RESOLUTION			0.00 6 h		0,	1	
NSTRUMENT		RING TYPE	RING MATERIAL		0 @ 6 b		304		
TR		CONEX. PROCES. / ACESS.	CONNECTION PC	NOITION			BOT		
SNI		SENSOR TYPE	MATERIAL SENSO		1/2" NPT		316		
	_	MATERIAL SOQUETE	MECHANISM MAT		3168		316		
					3100	<u> </u>	YES		
							YES		
		FRONT TYPE	WINDOWS		SOLI		GLASS SEG. TR	ANCD MIN 75%	
		FILLING	FLUID		YES		GLYC		
	-	SEAL DIAPHRAGM	FLOID		TES		NO GLIC	EKIN	
	_	6 CONNECTION INSTRUMENT PROCESS CONNECTION			_		I .		
		SEAL FILLING FLUID	1 100200 001111				<u> </u>		
		WET PART MATERIAL				316LSS (SEE)	GENERAL NOTES 4	<u> </u>	
						•	REQUIRED	<u>'</u>	
	_						REQUIRED		
		CAPILLARY MATERIAL PIUL SATION DAMPER			NOT REQUIRED				
ACCESSORIES		PULSATION DAMPER MATERIAL			NOT REQUIRED				
SOF					NOT REQ		NOT RE	QUIRED	
CES		I I					REQUIRED		
Ä		SIPHON TUBE MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT RE	QUIRED	
		OVERPRESSURE PROTECTOR	1 2222 33.111			NOT REQUIRED			
					NOT REQUIRED				
					NOT REQUIRED NOT REQUIRE			QUIRED	
	46				YES (SEE GENERAL NOTES 2)				
	40				TES (SEE SENERAL NOTES 2)				
П		FLUID	PHYSICAL STATE		WATE		LIQI	JID	
sγ	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C	
TIOI	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g	
ΔŇ		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-			°C	
300	40	VISCOSITY @ OPERATING CON	DITION		-	- cP			
OPERATING CONDITIONS	41	DENSITY @ OPERATING CONDI	TION		-		kg/m³		
[RA]	42	SUSPENDED SOLIDS (%)					-		
OPE	_	SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
	44	M.M. / Z / Cp/Cv					-		
	49	MANUFACTURER				WIKA (OR SILMILAR		
	50	MODEL							
-	_				•				

NOTES:









CLIENT NR: PRD-AIC-DSH-023 NUMBER: 569-DB7A-AIC-712-004

TITLE

29 de 61

REV.: 2

PRESSURE GAUGE SANITARY

1 INSTRUMENT TAG NUMBER

PI-380203

					CHILLED WATER LOOP SUPLLY					
	3			7A-Z-0-2-01						
GENERAL	4	PIPE LINE EQUIPMENT NUMBER		1"-GW0R-98001	89-CS1-CC	-	•			
	5	EQUIPMENT MATERIAL / PIPE				ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION				NOT (CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) C	ONF. NBR IEC 60529	9		
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)			
	9									
	10	TYPE OF MEASUREMENT				[DIRECT			
	11	MOUNTING				ı	LOCAL			
	12	DIAL DIAMETER				1	14 mm			
	13	SCALE COLOR	BACKGROUND C	OLOR	BLAC	K	WH	ITE		
	14	PRECISION	1			1% OF THE FIN	I NAL VALUE "RANGE			
1.	15	MATERIAL CASE				30488	POLISHED			
EN	16	RANGE	RESOLUTION		0 @ 6 b	ar-g	0,	1		
Į N N	17	RING TYPE	RING MATERIAL		BAYON	IET	304	ISS		
NSTRUMENT	18	CONEX. PROCES. / ACESS.	CONNECTION PC	OSITION	1/2" NP1	「(M)	ВОТ	TOM		
Z		SENSOR TYPE	MATERIAL SENSO		BOURD		316	SSS		
		MATERIAL SOQUETE	MECHANISM MAT			316SS 316SS				
		BALANCED POINTER			YES					
		MICROMETRIC ADJUSTMENT OF ZERO				YES				
		FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRANSP. MIN. 75%			
		FILLING	FLUID		YES		GLYC			
\vdash	_	SEAL DIAPHRAGM					NO SELEC			
	_	CONNECTION INSTRUMENT PROCESS CONNECTION								
		SEAL FILLING FLUID	I KOOLOO OOMA	LOTION			_			
						3161 SS (SEE)	GENERAL NOTES 4	١		
	-					· · · · · · · · · · · · · · · · · · ·	REQUIRED)		
	_									
		CAPILLARY MATERIAL			NOT REQUIRED NOT REQUIRED					
IES		PULSATION DAMPER			NOT REQUIRED NOT REQUIRED					
ACCESSORIES		MATERIAL PROCESS CONNECTION			NOT REQUIRED NOT REQUIRED			OLUBED		
ES		CONNECTION INSTRUMENT PROCESS CONNECTION			NOTREG			QUINED		
ACC		SIPHON TUBE			NOT REQUIRED NOT REQUIRED					
		MATERIAL INCOMPANT INCOMPA			NOT REQUIRED NOT REQUIRED					
		CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED NOT REQUIRED					
		OVERPRESSURE PROTECTOR			NOT REQUIRED NOT REQUIRED					
		MATERIAL DROCESS CONNECTION			NOT REQUIRED NOT REQUIRED NOT REQUIRED					
		CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2)			KOILED		
	_	TAGGING				IES (SEE G	LINERAL INUTES 2)			
\vdash	40	FLUID	DUVEICAL STATE	<u> </u>	\\/ A T F	:D	1.10	LIID		
ω			PHYSICAL STATE	1	WATE	:ĸ I	LIQ			
OPERATING CONDITIONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	°C		
		MINIMUM PRESSURE	NORMAL DESIGN TEMBER	MAXIMUM	-		2,5	°C		
		DESIGN PRESSURE	DESIGN TEMPER	AIURE	-			C		
NG (VISCOSITY @ OPERATING COND			-	- cP				
ATI		DENSITY @ OPERATING COND	IIION		-		kg/m³			
PER		SUSPENDED SOLIDS (%)	ATUDE				-			
Ō		SOLIDIFIES AT ROOM TEMPER	AIUKE				-			
\vdash	-	M.M. / Z / Cp/Cv				141112.	-			
		MANUFACTURER				WIKA (OR SILMILAR			
	50	MODEL								

NOTES:









TITLE

30 de 61

REV.:

PRESSURE GAUGE SANITARY

PK	ES	SURE GAUGE SANITA	AK Y					2 REV.:
	1	INSTRUMENT TAG NUMBER				PI	-390102	
	2	SERVICE		CHILLED WATER LOOP SUPPLY				
	3	P&ID				7A-Z-0-2-02		
J	_	PIPE LINE	EQUIPMENT NUM	IBER	1"-GW0S-98001	1"-GW0S-9800184-CS1-CC -		
GENERAL					ASTM A270 Gr. TP316L			
3EN		AREA CLASSIFICATION	NOT CLASSIFIED					
	7	ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	
	8	CERTIFICATES					ERAL NOTES 6)	
	9	OLIVIII IOATEO				(OLL OLIV	LIVIE NOTEO 0)	
	10	TYPE OF MEASUREMENT					DIRECT	
	_	MOUNTING					LOCAL	
		DIAL DIAMETER					14 mm	
		SCALE COLOR	BACKGROUND C	OLOP.	BLAC		WHI	TE
	_	PRECISION	BACKGROONDC	OLOIT			 AL VALUE "RANGE	
		MATERIAL CASE			POLISHED			
μ	_	RANGE	RESOLUTION		0.006.6			<u> </u>
JME		RING TYPE			0 @ 6 b		0, ²	
NSTRUMENT		CONEX. PROCES. / ACESS.	RING MATERIAL	CITION	BAYON			
S ≧	-		CONNECTION PO		1/2" NP1		BOTT	
	_	SENSOR TYPE	MATERIAL SENS		BOURD		316 316	
		MATERIAL SOQUETE MECHANISM MATERIAL BALANCED POINTER			316S	.	YES	33
		MICROMETRIC ADJUSTMENT O						
		FRONT TYPE	WINDOWS		SOLI	n	YES	NICD MIN 750/
		FILLING	FLUID		YES		GLASS SEG. TRA	
<u> </u>	_	SEAL DIAPHRAGM			150		NO GLTC	EKIN
		CONNECTION INSTRUMENT PROCESS CONNECTION					NO .	
		SEAL FILLING FLUID			-		-	
						2461 00 (000	- CENERAL NOTES 4)	
		WET PART MATERIAL CAPILLARY LENGTH				•	GENERAL NOTES 4)	
		CAPILLARY LENGTH CAPILLARY MATERIAL					REQUIRED	
		PULSATION DAMPER			REQUIRED			
IES		MATERIAL			REQUIRED REQUIRED			
ACCESSORIES			DBOCESS CONN	ECTION	NOT REQ		NOT REC	NIIDED.
ES		CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQU		REQUIRED	ZUIKED
ACC		SIPHON TUBE					REQUIRED	
		MATERIAL CONNECTION INSTRUMENT DROCESS CONNECTION			NOT BEOL		NOT REC	NUBED
		CONNECTION INSTRUMENT PROCESS CONNECTION			NOTREG	NOT REQUIRED NOT REQUIRED NOT REQUIRED		
		OVERPRESSURE PROTECTOR MATERIAL			NOT REQUIRED			
	39		IDBOCESS CONN	ECTION				NIIDED.
		CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2)			ZOINED
	46	TAGGING				IES (SEE GI	LIVERAL INUTES 2)	
\vdash		FLUID	PHYSICAL STATE	<u> </u>	WATE	:R	LIQI	IID
တ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	WAIL	I		°C
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		1,4 2,5	
<u> </u>		DESIGN PRESSURE	DESIGN TEMPER	1	· ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·	bar-g °C
်		VISCOSITY @ OPERATING CON		, OIL	-		cP	
Ŋ		DENSITY @ OPERATING COND			 		kg/m³	
₹		SUSPENDED SOLIDS (%)	IIION		-		-	
PE,		SOLIDIFIES AT ROOM TEMPERA	ATLIDE					
	_	M.M. / Z / Cp/Cv	TORL					
	_	MANUFACTURER				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PR SILMILAR	
	_	MODEL				WINA	A SILIVIILAR	
NOT		INIODEL						

NOTES:









TITLE

SHEET: 31 de 61

REV.:

PRESSURE GAUGE SANITARY

1 MISTELLMENT TAG NUMBER
7 Pail Pai
\$
S
Page
Page
P
Record Type of Measurement
9
10 TYPE OF MEASUREMENT
11 MOUNTING
12 DIAL DIAMETER
13 SCALE COLOR
14
15 MATERIAL CASE
Facility
19 SENSOR TYPE MATERIAL SENSOR BOURDON 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS 21 BALANCED POINTER 22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 24 FILLING FLUID YES GLYCERIN 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION
19 SENSOR TYPE MATERIAL SENSOR BOURDON 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS 21 BALANCED POINTER 22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 24 FILLING FLUID YES GLYCERIN 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION
19 SENSOR TYPE MATERIAL SENSOR BOURDON 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS 21 BALANCED POINTER 22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 24 FILLING FLUID YES GLYCERIN 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION
20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS 21 BALANCED POINTER YES 22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 24 FILLING FLUID YES GLYCERIN 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION - - 27 SEAL FILLING FLUID - 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 30 CAPILLARY LENGTH NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED 31 PULSATION DAMPER NOT REQUIRED 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 34 SIPHON TUBE NOT REQUIRED 35 MATERIAL NOT REQUIRED 36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED 39 OVERPRESSURE PROTECTOR NOT REQUIRED 30 OVERPRESSURE PROTECTOR NOT REQUIRED 31 OVERPRESSURE PROTECTOR NOT REQUIRED 32 OVERPRESSURE PROTECTOR NOT REQUIRED 33 OVERPRESSURE PROTECTOR NOT REQUIRED 34 OVERPRESSURE PROTECTOR NOT REQUIRED 35 OVERPRESSURE PROTECTOR NOT REQUIRED 36 OVERPRESSURE PROTECTOR NOT REQUIRED 36 OVERPRESSURE PROTECTOR NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 OVERPRESSURE PROTECTOR NOT REQUIRED 39 OVERPRESSURE PROTECTOR NOT REQUIRED 30 OVERPRESSURE PROTECTOR NOT REQUIRED 30 OVERPRESSURE PROTECTOR NOT REQUIRED 30
21 BALANCED POINTER
22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 24 FILLING FLUID YES GLYCERIN 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION - 27 SEAL FILLING FLUID 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 29 CAPILLARY LENGTH NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED 31 PULSATION DAMPER NOT REQUIRED 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 34 SIPHON TUBE NOT REQUIRED 35 MATERIAL NOT REQUIRED 36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED 39 MATERIAL NOT REQUIRED 30 OVERPRESSURE PROTECTOR NOT REQUIRED 30 NOT REQUIRED NOT REQUIRED 31 NOT REQUIRED NOT REQUIRED 32 MATERIAL NOT REQUIRED NOT REQUIRED 33 OVERPRESSURE PROTECTOR NOT REQUIRED 34 NOT REQUIRED NOT REQUIRED 35 MATERIAL NOT REQUIRED NOT REQUIRED 36 NOT REQUIRED NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED 39 MATERIAL NOT REQUIRED 30 NOT REQUIRED NOT REQUIRED 30 NOT REQUIRED NOT REQUIRED 31 NOT REQUIRED NOT REQUIRED 32 NOT REQUIRED NOT REQUIRED 34 NOT REQUIRED NOT REQUIRED 35 NOT REQUIRED NOT REQUIRED 36 NOT REQUIRED NOT REQUIRED 37 NOT REQUIRED NOT REQUIRED 38 NOT REQUIRED NOT REQUIRED 39 NOT REQUIRED NOT REQUIRED 30 NOT REQUIRED NOT REQUIRED 30 NOT REQUIRED NOT REQUIRED 30 NOT REQUIRED NOT REQUIRED 31 NOT REQUIRED NOT REQUIRED 32 NOT REQUIRED NOT REQUIRED 34 NOT REQUIRED NOT REQUIRED 35 NOT REQUIRED NOT REQUIRED 30 NOT REQUIRED NOT REQUIRED 30 NOT REQUIRED NOT REQUIRED 31 NOT REQUIRED NOT REQUIRED 32 NOT REQUIRED NOT REQUIRED 33 NOT REQUIRED NOT REQUIRED 34 NOT REQUIRED NOT REQUIRED 35 NOT REQUIRED NOT REQUIRED 36 NOT REQUIRE
23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 24 FILLING FLUID YES GLYCERIN 25 SEAL DIAPHRAGM 26 CONNECTION INSTRUMENT PROCESS CONNECTION
24 FILLING FLUID YES GLYCERIN 25 SEAL DIAPHRAGM 26 CONNECTION INSTRUMENT PROCESS CONNECTION 27 SEAL FILLING FLUID 28 WET PART MATERIAL 29 CAPILLARY LENGTH 30 CAPILLARY MATERIAL 31 PULSATION DAMPER 32 MATERIAL 33 CONNECTION INSTRUMENT PROCESS CONNECTION 34 SIPHON TUBE 35 MATERIAL 36 CONNECTION INSTRUMENT PROCESS CONNECTION 37 OVERPRESSURE PROTECTOR 38 MATERIAL NOT REQUIRED
25 SEAL DIAPHRAGM 26 CONNECTION INSTRUMENT PROCESS CONNECTION
26 CONNECTION INSTRUMENT PROCESS CONNECTION 27 SEAL FILLING FLUID 28 WET PART MATERIAL 29 CAPILLARY LENGTH 30 CAPILLARY MATERIAL 31 PULSATION DAMPER 32 MATERIAL 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED
27 SEAL FILLING FLUID 28 WET PART MATERIAL 29 CAPILLARY LENGTH 30 CAPILLARY MATERIAL 31 PULSATION DAMPER 31 PULSATION DAMPER 32 MATERIAL 33 CONNECTION INSTRUMENT 34 SIPHON TUBE 35 MATERIAL 36 CONNECTION INSTRUMENT 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 CONNECTION 40 PROCESS CONNECTION 50 PROCESS CONNECTION 51 PROCESS CONNECTION 52 PROCESS CONNECTION 53 PROCESS CONNECTION 54 PROCESS CONNECTION 55 PROCESS CONNECTION 56 PROCESS CONNECTION 57 PROCESS CONNECTION 58 PROCESS CONNECTION 59 PROCESS CONNECTION 59 PROCESS CONNECTION 50 PROCESS CONNECTION 51 PROCESS CONNECTION 52 PROCESS CONNECTION 53 PROCESS CONNECTION 54 PROCESS CONNECTION 55 PROCESS CONNECTION 56 PROCESS CONNECTION 57 PROCESS CONNECTION 58 PROCESS CONNECTION 59 PROCESS CONNECTION 59 PROCESS CONNECTION 50 PROCESS CONNECTION 51 PROCESS CONNECTIO
28 WET PART MATERIAL 29 CAPILLARY LENGTH 30 CAPILLARY MATERIAL 31 PULSATION DAMPER 32 MATERIAL 33 CONNECTION INSTRUMENT 34 SIPHON TUBE 35 MATERIAL 36 CONNECTION INSTRUMENT 37 OVERPRESSURE PROTECTOR 38 MATERIAL 31 PROCESS CONNECTION 31 POLSATION DAMPER 32 MATERIAL 33 CONNECTION INSTRUMENT 34 SIPHON TUBE 35 MATERIAL 36 CONNECTION INSTRUMENT 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 NOT REQUIRED
29 CAPILLARY LENGTH 30 CAPILLARY MATERIAL NOT REQUIRED 31 PULSATION DAMPER 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED
30 CAPILLARY MATERIAL 31 PULSATION DAMPER 32 MATERIAL 33 CONNECTION INSTRUMENT PROCESS CONNECTION 34 SIPHON TUBE 35 MATERIAL 36 CONNECTION INSTRUMENT PROCESS CONNECTION 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 MATERIAL 30 CONNECTION INSTRUMENT PROCESS CONNECTION 30 NOT REQUIRED 31 NOT REQUIRED 32 NOT REQUIRED 33 NOT REQUIRED 34 NOT REQUIRED 35 NOT REQUIRED 36 NOT REQUIRED 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 NOT REQUIRED 30 NOT REQUIRED
31 PULSATION DAMPER 32 MATERIAL 33 CONNECTION INSTRUMENT PROCESS CONNECTION 34 SIPHON TUBE 35 MATERIAL 36 CONNECTION INSTRUMENT PROCESS CONNECTION 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 NOT REQUIRED
32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 34 SIPHON TUBE 35 MATERIAL 36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 37 OVERPRESSURE PROTECTOR 38 MATERIAL NOT REQUIRED NOT REQUIRED NOT REQUIRED NOT REQUIRED NOT REQUIRED
36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED
36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED
36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED
36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED
37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED
38 MATERIAL NOT REQUIRED
, , oo , a a a a a a a a a a a a a a a a
46 TAGGING YES (SEE GENERAL NOTES 2)
40
36 FLUID PHYSICAL STATE WATER LIQUID
S 38 MINIMUM PRESSURE NORMAL MAXIMUM - 2,5 bar-g
39 DESIGN PRESSURE DESIGN TEMPERATURE - °C
O 40 VISCOSITY @ OPERATING CONDITION - CP
Z 41 DENSITY @ OPERATING CONDITION - kg/m³
원 42 SUSPENDED SOLIDS (%)
I m I = I I I I I I I I I I I I I I I I
NORMAL MAXIMUM - 1,4 °C
43 SOLIDIFIES AT ROOM TEMPERATURE - 44 M.M. / Z / Cp/Cv -

NOTES:









TITLE

SHEET: 32 de 61

REV.:

PRESSURE GAUGE SANITARY

PK	E 3	SURE GAUGE SANITA	AR I				2 REV.:			
	1	INSTRUMENT TAG NUMBER				PI-390202				
	2	SERVICE SERVICE			CHILLED WATER LOOP SUPPLY					
	3	P&ID			7A-Z-0-2-02					
GENERAL	4	PIPE LINE EQUIPMENT NUMBER			1"-GW0S-9800186-CS1-CC	1"-GW0S-9800186-CS1-CC -				
	5	EQUIPMENT MATERIAL / PIPE	I.		ASTM A270 Gr. TP316L					
	6	AREA CLASSIFICATION			NOT CLASSIFIED					
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
	8	CERTIFICATES			(SEE GENERAL NOTES 6)					
	9				,	,				
\neg	-	TYPE OF MEASUREMENT				DIRECT				
ı		MOUNTING				LOCAL				
ı		DIAL DIAMETER				114 mm				
		SCALE COLOR	BACKGROUND C	COLOR	BLACK		HITE			
ŀ	-	PRECISION				 FINAL VALUE "RANGI				
ŀ		MATERIAL CASE				4SS POLISHED				
F		RANGE	RESOLUTION		0 @ 6 bar-g		,1			
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET		4SS			
ET.		CONEX. PROCES. / ACESS.	CONNECTION PO	NOITION	1/2" NPT (M)		TOM			
≅∣		SENSOR TYPE	MATERIAL SENS		BOURDON		SSS			
		MATERIAL SOQUETE	MECHANISM MA		316SS		6SS			
		BALANCED POINTER	INIECI IANISINI WA	TENIAL	31033	YES				
		MICROMETRIC ADJUSTMENT O	E ZEDO			YES				
		FRONT TYPE	WINDOWS		SOLID		RANSP. MIN. 75%			
					YES					
\dashv	_	FILLING SEAL DIAPHRAGM	FLUID		150		CERIN			
		6 CONNECTION INSTRUMENT PROCESS CONNECTION				NO I				
			PROCESS CONN	IECTION	-		-			
					0401.00.401	-				
		WET PART MATERIAL CAPILLARY LENGTH			<u> </u>	EE GENERAL NOTES 4	+)			
						OT REQUIRED				
		CAPILLARY MATERIAL				OT REQUIRED				
ES		PULSATION DAMPER				NOT REQUIRED NOT REQUIRED				
ñ Ñ		MATERIAL	Inno on on on on on on on on one	FOTION			OLUBED.			
ACCESSORIES		CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED	I	QUIRED			
ပ္စ		SIPHON TUBE				OT REQUIRED				
Ì		MATERIAL PROCESS CONNECTION				OT REQUIRED				
		CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED	NOT REQUIRED NOT REQUIRED NOT REQUIRED				
					NOT REQUIRED					
		MATERIAL PROPERTY AND				OLUBED.				
		CONNECTION INSTRUMENT PROCESS CONNECTION				QUIRED				
					YES (SEE GENERAL NOTES 2)					
_	40		I	_	===		=			
,		FLUID	PHYSICAL STATE	_	WATER		UID L			
ő		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	1,4	°C			
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	2,5	bar-g			
중		DESIGN PRESSURE	DESIGN TEMPER	KATUKE	-		°C			
ğ P		VISCOSITY @ OPERATING COND			-	- cP				
≣		DENSITY @ OPERATING CONDI	HUN		-	kg/m³				
PER		SUSPENDED SOLIDS (%)	TUDE			-				
ō		SOLIDIFIES AT ROOM TEMPERA	ATURE			-				
		M.M. / Z / Cp/Cv				-				
	-	MANUFACTURER			Wik	(A OR SILMILAR				
TOI		MODEL								

NOTES:









TITLE

SHEET: 33 de 61

REV.:

PRESSURE GAUGE SANITARY

PK	ES	SURE GAUGE SANTA	APC T				2 REV.:			
	1	INSTRUMENT TAG NUMBER				PI-390203	<u> </u>			
	2	SERVICE SERVICE			CHILLED WATER LOOP SUPPLY					
GENERAL	3	P&ID			7A-Z-0-2-02					
	4	PIPE LINE EQUIPMENT NUMBER			1"-GW0R-9800183-CS1-C0	1"-GW0R-9800183-CS1-CC -				
	5	EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L					
	6	AREA CLASSIFICATION			NOT CLASSIFIED					
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
	8	CERTIFICATES			(SEE C	SENERAL NOTES 6)				
	9				,	,				
	10	TYPE OF MEASUREMENT				DIRECT				
		MOUNTING				LOCAL				
	12	DIAL DIAMETER				114 mm				
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACK	l wi	HITE			
		PRECISION			1% OF THE	I EFINAL VALUE "RANGI	E"			
		MATERIAL CASE				4SS POLISHED				
ΞNΞ		RANGE	RESOLUTION		0 @ 6 bar-g		,1			
UME		RING TYPE	RING MATERIAL		BAYONET		, 4SS			
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT (M)		ТОМ			
Ë		SENSOR TYPE	MATERIAL SENS		BOURDON		6SS			
		MATERIAL SOQUETE	MECHANISM MA		316SS		SSS			
		BALANCED POINTER			7.7.2	YES				
						YES				
		FRONT TYPE	WINDOWS		SOLID		RANSP. MIN. 75%			
		FILLING	FLUID		YES		CERIN			
	_	5 SEAL DIAPHRAGM			1.20	NO				
		CONNECTION INSTRUMENT PROCESS CONNECTION								
		WET PART MATERIAL			316I SS (S	EE GENERAL NOTES 4	.)			
		CAPILLARY LENGTH				OT REQUIRED	,			
	-	CAPILLARY MATERIAL				OT REQUIRED				
	-	PULSATION DAMPER				OT REQUIRED				
ACCESSORIES		MATERIAL				NOT REQUIRED				
SOF		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED		QUIRED			
CES		SIPHON TUBE				OT REQUIRED				
AC		MATERIAL				OT REQUIRED				
		CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED	NOT RE	QUIRED			
		· ·			NOT REQUIRED					
		MATERIAL			NOT REQUIRED					
		CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED NOT REQUIRE		QUIRED			
	46				YES (SEE GENERAL NOTES 2)					
	40				TES (SEE GENERAL NOTES 2)					
		FLUID	PHYSICAL STATE		WATER	LIC	UID			
S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	1,4	l °c			
TIOI		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	2,5	bar-g			
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER		-	· ·	.c			
00 5		VISCOSITY @ OPERATING CON			-	l cP				
ING		DENSITY @ OPERATING CONDI			-	kg/m³				
RA		SUSPENDED SOLIDS (%)				-				
JAC		SOLIDIFIES AT ROOM TEMPERA	TURE			-				
J		M.M. / Z / Cp/Cv				-				
	-	MANUFACTURER			WIF	(A OR SILMILAR				
		MODEL								
NOT		l .								

NOTES:









CLIENT NR: PRD-AIC-DSH-023 NUMBER: 569-DB7A-AIC-712-004

TITLE

34 de 61 REV.:

PRESSURE GAUGE SANITARY

2

						2			
	1	INSTRUMENT TAG NUMBER				PI	-390201		
	2	SERVICE				CLEAN COMPF	RESSED AIR SUPPLY		
	3	P&ID			7A-Z-0-2-02				
∀	4	PIPE LINE	EQUIPMENT NUM	MBER .	7A-1/2"-CAP-700026-SS10-NI -				
IER.	5	EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L				
GENERAL	6	AREA CLASSIFICATION			NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES			(SEE GENERAL NOTES 6)				
	9					, -	/		
	<u> </u>	TYPE OF MEASUREMENT			+	Г	DIRECT		
		MOUNTING					LOCAL		
		DIAL DIAMETER					14 mm		
		SCALE COLOR	BACKGROUND C	OI OP	BLAC		WHIT	E	
	_	PRECISION	BACKGROONDC	OLOIX			 AL VALUE "RANGE"	L	
		MATERIAL CASE					S POLISHED		
Ι×			RESOLUTION						
NSTRUMENT		RANGE			0 @ 10.0		0,1		
TRL		RING TYPE	RING MATERIAL		BAYO		304SS		
INS		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NP		BOTTO		
		SENSOR TYPE	MATERIAL SENS		BOURI		316S		
		MATERIAL SOQUETE	MECHANISM MAT	TERIAL	3168	SS	316S	S 	
		BALANCED POINTER					YES		
		MICROMETRIC ADJUSTMENT OF ZERO					YES		
	23	FRONT TYPE	WINDOWS		SOL	ID	GLASS SEG. TRAN	NSP. MIN. 75%	
	24	FILLING	FLUID		YES	3	GLYCE	RIN	
	25	SEAL DIAPHRAGM			YES	IN AISI 316L (SEE GENERAL NOTES	5 4)	
	26	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFA	CTURER	1/2"-TRI-CLAMP	-ASME BPE	
	27	SEAL FILLING FLUID			MEDIC	AL WHITE MINE	ERAL OIL (FDA-APPRO	OVED)	
	28	WET PART MATERIAL				316LSS (SEE 0	GENERAL NOTES 4)		
	29	CAPILLARY LENGTH				NOT	REQUIRED		
	30	CAPILLARY MATERIAL				NOT	REQUIRED		
S.	31	PULSATION DAMPER				NOT REQUIRED			
ACCESSORIES	32	MATERIAL			NOT REQUIRED				
SSC	33	CONNECTION INSTRUMENT				NOT REQUIRED NOT REQUIRED			
SCE	34	SIPHON TUBE	•			NOT	REQUIRED		
¥	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED NOT REQUIRED			JIRED	
		OVERPRESSURE PROTECTOR	•			NOT REQUIRED			
	38	MATERIAL			NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED			JIRED	
	46	TAGGING			YES (SEE GENERAL NOTES 2)				
	40								
	36	FLUID	PHYSICAL STATE		CLEAN	AIR	AIR		
S S	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,			°C	
TIOI	38	MINIMUM PRESSURE	NORMAL	MAXIMUM				bar-g	
Ī	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE	1	'	°(
00 ;		VISCOSITY @ OPERATING CON	DITION		1		cP		
ING.		DENSITY @ OPERATING CONDI			1		kg/m³		
RAT		SUSPENDED SOLIDS (%)			1		NOT		
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE		1		NOT		
		M.M. / Z / Cp/Cv					/ /		
\vdash	-	MANUFACTURER			†		OR SILMILAR		
	_	MODEL				.,,,,,,,	·· ···		
L		I							

NOTES:









TITLE

35 de 61

REV.:

PRESSURE GAUGE SANITARY

Щ										
	1	INSTRUMENT TAG NUMBER				PI	-390301			
	2	SERVICE				CLEAN COMPF	RESSED AIR SUPPLY			
	3	P&ID				7A	-Z-0-2-02			
Ą	4	PIPE LINE	EQUIPMENT NUI	MBER	7A-1/2"-CAP-700	7A-1/2"-CAP-700006-SS10-NI -				
GENERAL	5	EQUIPMENT MATERIAL / PIPE	•			ASTM A270 Gr. TP316L				
GEI	6	AREA CLASSIFICATION				NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
	8	CERTIFICATES				(SEE GENERAL NOTES 6)				
	9									
	10	TYPE OF MEASUREMENT				DIRECT				
	11	MOUNTING				LOCAL				
	12	DIAL DIAMETER				1	14 mm			
	13	SCALE COLOR	BACKGROUND (COLOR	BLAC	CK	WHIT	E		
	14	PRECISION	•			1% OF THE FIN	IAL VALUE "RANGE"			
	15	MATERIAL CASE				30488	POLISHED			
EN	16	RANGE	RESOLUTION		0 @ 10.0	bar-g	0,1			
3UM	17	RING TYPE	RING MATERIAL		BAYON	NET	304SS			
NSTRUMENT	18	CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NP1	Г (М)	вотто	DM		
≤	19	SENSOR TYPE	MATERIAL SENS	OR	BOURD	OON	316S	S		
	20	MATERIAL SOQUETE	MECHANISM MA	TERIAL	316S	S	316S	S		
	21	BALANCED POINTER	•				YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO					YES			
	23	FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRAN	NSP. MIN. 75%		
	24	FILLING FLUID			YES	3	GLYCE	RIN		
	25	SEAL DIAPHRAGM	•		YES	IN AISI 316L (S	SEE GENERAL NOTES	5 4)		
	26	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	BY MANUFA	CTURER	1/2"-TRI-CLAMP	-ASME BPE		
	27	SEAL FILLING FLUID			MEDICA	AL WHITE MINE	RAL OIL (FDA-APPRO	OVED)		
	28	WET PART MATERIAL				316LSS (SEE	GENERAL NOTES 4)			
	29	CAPILLARY LENGTH				NOT	REQUIRED			
	30	CAPILLARY MATERIAL				NOT	REQUIRED			
S	31	PULSATION DAMPER				NOT REQUIRED				
)RIE	32	MATERIAL				NOT	REQUIRED			
SS	33	CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQ	UIRED	NOT REQI	JIRED		
ACCESSORIES	34	SIPHON TUBE				NOT	REQUIRED			
∢	35	MATERIAL				NOT	REQUIRED			
	36	CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQ	NOT REQUIRED NOT REQUIRED				
	37	OVERPRESSURE PROTECTOR				NOT REQUIRED				
	38	MATERIAL			NOT REQUIRED					
		CONNECTION INSTRUMENT	ECTION INSTRUMENT PROCESS CONNECTION		NOT REQUIRED NOT REQUIRED			JIRED		
	_	TAGGING				YES (SEE GE	ENERAL NOTES 2)			
	40		1							
[FLUID	PHYSICAL STATI	1	CLEAN	AIR I	AIR			
ONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,			°C		
ΙΠ		MINIMUM PRESSURE	NORMAL	MAXIMUM				bar-g		
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	KATUKE			°(<u>, </u>		
200		VISCOSITY @ OPERATING COND					cP			
ATI		DENSITY @ OPERATING COND	ITION				kg/m³			
PER		SUSPENDED SOLIDS (%)	ATUDE			NOT				
Ō		SOLIDIFIES AT ROOM TEMPER	ATUKE				NOT			
	-	M.M. / Z / Cp/Cv					/ /			
		MANUFACTURER				WIKA C	DR SILMILAR			
	50	MODEL								

NOTES:









NUMBER: CLIENT NR: PRD-AIC-DSH-023 569-DB7A-AIC-712-004

TITLE

36 de 61

REV.:

PRESSURE GAUGE SANITARY

2 INSTRUMENT TAG NUMBER PI-430002 DOUBLE DIAPHRAGM PUMP OUTPUT PRESSURE 7A-BD-4301 2 SERVICE P&ID 7A-7-0-2-20 3 7A-3/4"-CHE-430003-SS5-NI PIPE LINE **EQUIPMENT NUMBER** 4 EQUIPMENT MATERIAL / PIPE ASTM-A312 Gr. TP304L AREA CLASSIFICATION NOT CLASSIFIED **ENCLOSURE CLASSIFICATION** IP 65 (MÍN.) CONF. NBR IEC 60529 CERTIFICATES (SEE GENERAL NOTES 6) 8 TYPE OF MEASUREMENT DIRECT 10 MOUNTING LOCAL 11 12 DIAL DIAMETER 114 mm 13 SCALE COLOR BACKGROUND COLOR WHITE BLACK PRECISION 1% OF THE FINAL VALUE "RANGE" 14 15 MATERIAL CASE 304SS POLISHED NSTRUMEN' 16 RANGE RESOLUTION 0 @ 10.0 bar-g 0.1 17 RING TYPE RING MATERIAL **BAYONET** 304SS 18 CONEX. PROCES. / ACESS. CONNECTION POSITION воттом 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR **BOURDON** 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS BALANCED POINTER YES MICROMETRIC ADJUSTMENT OF ZERO YES 22 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 75% 24 FILLING FLUID YES **GLYCERIN** SEAL DIAPHRAGM YES IN AISI 316L (SEE GENERAL NOTES 4) 25 CONNECTION INSTRUMENT PROCESS CONNECTION BY MANUFACTURER 1/2" NPT WITH SEAL SEAL FILLING FLUID MEDICAL WHITE MINERAL OIL (FDA-APPROVED) 27 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 29 CAPILLARY LENGTH NOT REQUIRED CAPILLARY MATERIAL 30 NOT REQUIRED 31 PULSATION DAMPER NOT REQUIRED 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED **NOT REQUIRED** SIPHON TUBE NOT REQUIRED 34 NOT REQUIRED 35 MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 36 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2) TAGGING 46 40 36 FLUID PHYSICAL STATE DETERGENT LIQUID 37 MINIMUM TEMPERATURE NORMAL MAXIMUM °C OPERATING CONDITIONS 38 MINIMUM PRESSURE NORMAL MAXIMUM bar-a 39 DESIGN PRESSURE DESIGN TEMPERATURE °C 40 VISCOSITY @ OPERATING CONDITION сΡ 41 DENSITY @ OPERATING CONDITION ka/m³ 42 SUSPENDED SOLIDS (%) NOT SOLIDIFIES AT ROOM TEMPERATURE 43 NOT 44 M.M. / Z / Cp/Cv / / MANUFACTURER WIKA OR SILMILAR 49 50 MODEL

NOTES:









TITLE

SHEET: 37 de 61

REV.:

PRESSURE GAUGE SANITARY

$ldsymbol{ld}}}}}}}}}$						2
	1	INSTRUMENT TAG NUMBER		_	P	PI-430000
	2	SERVICE			AIR SUPPLY C	COMP. (INSTRUMENT)
	3	P&ID			7,4	A-Z-0-2-20
¥	4	PIPE LINE	EQUIPMENT NU	MBER	3/4"-CA-710013-SS5-NI	-
GENERAL	5	EQUIPMENT MATERIAL / PIPE	•		ASTM-A	.312 Gr. TP304L
GEI	6	AREA CLASSIFICATION			NOT	CLASSIFIED
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) C	ONF. NBR IEC 60529
	8	CERTIFICATES			(SEE GEN	NERAL NOTES 6)
	9					
	10	TYPE OF MEASUREMENT				DIRECT
	11	MOUNTING				LOCAL
	12	DIAL DIAMETER				114 mm
	13	SCALE COLOR	BACKGROUND	COLOR	BLACK	WHITE
	14	PRECISION	•		1% OF THE FI	NAL VALUE "RANGE"
_	15	MATERIAL CASE			304S	S POLISHED
U	16	RANGE	RESOLUTION		0 @ 10.0 bar-g	0,1
l Z	17	RING TYPE	RING MATERIAL	-	BAYONET	304SS
NSTRUMENT	18	CONEX. PROCES. / ACESS.	CONNECTION P	OSITION	1/2" NPT (M)	воттом
=	19	SENSOR TYPE	MATERIAL SENS	SOR	BOURDON	316SS
	20	MATERIAL SOQUETE	MECHANISM MA	ATERIAL	316SS	316SS
	21	BALANCED POINTER				YES
	22	MICROMETRIC ADJUSTMENT O	F ZERO			YES
	23	FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRANSP. MIN. 75%
	24	FILLING	FLUID		YES	GLYCERIN
	25	SEAL DIAPHRAGM			YES IN AISI 316L (SEE GENERAL NOTES 4)
	26	CONNECTION INSTRUMENT	PROCESS CON	NECTION	BY MANUFACTURER	1/2" NPT WITH SEAL
	27	SEAL FILLING FLUID			MEDICAL WHITE MIN	IERAL OIL (FDA-APPROVED)
	28	WET PART MATERIAL			316LSS (SEE	GENERAL NOTES 4)
	29	CAPILLARY LENGTH			NOT	REQUIRED
	30	CAPILLARY MATERIAL			NOT	REQUIRED
S	31	PULSATION DAMPER			NOT	REQUIRED
JR	32	MATERIAL			NOT	REQUIRED
ACCESSORIES	33	CONNECTION INSTRUMENT	PROCESS CON	NECTION	NOT REQUIRED	NOT REQUIRED
CCE	34	SIPHON TUBE			NOT	REQUIRED
◀		MATERIAL			NOT	REQUIRED
	36	CONNECTION INSTRUMENT	PROCESS CON	NECTION	NOT REQUIRED	NOT REQUIRED
	37	OVERPRESSURE PROTECTOR			NOT	REQUIRED
		MATERIAL	1			REQUIRED
		CONNECTION INSTRUMENT	PROCESS CON	NECTION	NOT REQUIRED	NOT REQUIRED
	-	TAGGING			YES (SEE G	SENERAL NOTES 2)
\sqsubseteq	40		1			
[,		FLUID	PHYSICAL STAT		AIR	GAS
ONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,	°C
ΠŢ		MINIMUM PRESSURE	NORMAL	MAXIMUM		bar-g
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPE	KATURE		°C
190		VISCOSITY @ OPERATING CON				сР
ATI		DENSITY @ OPERATING COND	ITION			kg/m³
PER		SUSPENDED SOLIDS (%)	ATUDE			NOT
Ō		SOLIDIFIES AT ROOM TEMPERA	ATURE			NOT
\vdash	_	M.M. / Z / Cp/Cv				/ /
		MANUFACTURER			WIKA	OR SILMILAR
	50	MODEL				

NOTES:









TITLE

38 de 61

REV.:

PRESSURE GAUGE SANITARY

PR	ES	SURE GAUGE SANITA	AIK Y					REV.: 2	
	1	INSTRUMENT TAG NUMBER				PI	-640109		
	2	SERVICE				COMP. (INSTRI	JMENT) AIR SUPPL	Υ	
	3	P&ID					-Z-0-2-24		
	-	PIPE LINE	EQUIPMENT NUM	BER	1/2"-CA-6401		-		
ER/		EQUIPMENT MATERIAL / PIPE					l 270 Gr. TP316L		
GENERAL	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529		
	8	CERTIFICATES				. ,	ERAL NOTES 6)		
	9					•			
Н	i i	TYPE OF MEASUREMENT			DIRECT				
	11	MOUNTING			LOCAL				
	12	DIAL DIAMETER			114 mm				
	13	SCALE COLOR	BACKGROUND C	OLOR	BLAC	K	WH	ITE	
	14	PRECISION				1% OF THE FIN	I NAL VALUE "RANGE	"	
	15	MATERIAL CASE				30488	POLISHED		
F		RANGE	RESOLUTION		0 @ 10 t	par-g	0,0	2	
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON	IET	304	SS	
STF		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M) / COO	LING ELEMENT	вот	ГОМ	
Z	19	SENSOR TYPE	MATERIAL SENSO	DR .	BOURD	OON	316	SS	
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	S	316	SS	
	21	BALANCED POINTER				YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO			YES				
	23	FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRA	ANSP. MIN. 75%	
	24	FILLING	FLUID		YES	;	GLYC	ERIN	
	25	SEAL DIAPHRAGM	•				NO		
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			-		-		
	27	SEAL FILLING FLUID					-		
	28	WET PART MATERIAL				316LSS (SEE	GENERAL NOTES 4)		
	29	CAPILLARY LENGTH				NOT	REQUIRED		
	30	CAPILLARY MATERIAL				NOT	REQUIRED		
S	31	PULSATION DAMPER				NOT	REQUIRED		
뿚	32	MATERIAL				NOT	REQUIRED		
SSC	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQ	UIRED	NOT REC	QUIRED	
ACCESSORIES	34	SIPHON TUBE				NOT	REQUIRED		
Ā	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQ	UIRED	NOT REC	QUIRED	
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQ		NOT REC	QUIRED	
		TAGGING				YES (SEE GI	ENERAL NOTES 2)		
	40		ı						
[FLUID	PHYSICAL STATE	1	AIR		G/		
ONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	AMB	°C	
DITI		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		6	bar-g	
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-			°C	
9		VISCOSITY @ OPERATING CON					cP		
ATI		DENSITY @ OPERATING CONDI	HON			-	kg/m³		
PER		SUSPENDED SOLIDS (%)	TUDE				-		
ō		SOLIDIFIES AT ROOM TEMPERA	ATUKE						
\vdash	-	M.M. / Z / Cp/Cv			/				
		MANUFACTURER			WIKA OR SILMILAR				
NOT		MODEL							

NOTES:









TITLE

39 de 61

REV.:

PRESSURE GAUGE SANITARY

								2
	1	INSTRUMENT TAG NUMBER				PI	-640110	
	2	SERVICE				CHILLED WAT	ER LOOP RETURN	
	3	P&ID				7A-	-Z-0-2-24	
AL.	4	PIPE LINE	EQUIPMENT NUM	BER	3"-GW0R-98009	91-CS1-CC	-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L	
GEN	6	AREA CLASSIFICATION				NOT (CLASSIFIED	
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	
	8	CERTIFICATES					ERAL NOTES 6)	
	9						,	
	_	TYPE OF MEASUREMENT			DIRECT			
	_	MOUNTING			LOCAL			
		DIAL DIAMETER					14 mm	
		SCALE COLOR	BACKGROUND CO	OLOR	BLAC		WHI	TE
		PRECISION					IAL VALUE "RANGE	
		MATERIAL CASE					POLISHED	
ΙNΞ	_	RANGE	RESOLUTION		0 @ 6 ba		0,1	
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON		304	
TRI		CONEX. PROCES. / ACESS.	CONNECTION PO	NOITION	1/2" NPT		ВОТТ	
ĭ		SENSOR TYPE	MATERIAL SENSO		BOURD		316	
		MATERIAL SOQUETE	MECHANISM MAT		3168		316	
		BALANCED POINTER	INICOTATION WAT	LINAL	3100	J	YES	30
		MICROMETRIC ADJUSTMENT O	E ZEDO				YES	
		FRONT TYPE	WINDOWS		SOLII	<u> </u>	GLASS SEG. TRA	ANSD MINI 75%
	_	FILLING	FLUID		YES		GLASS SEG. TA	
_	_	SEAL DIAPHRAGM		TES		NO GLTC	EKIN	
	_				NO			
		CONNECTION INSTRUMENT	-		-			
		SEAL FILLING FLUID WET PART MATERIAL				2161 00 (000	- CENEDAL NOTES 4)	
	_	WET PART MATERIAL CAPILLARY LENGTH				•	GENERAL NOTES 4) REQUIRED	
	30	CAPILLARY MATERIAL					REQUIRED	
		PULSATION DAMPER					REQUIRED	
ACCESSORIES		MATERIAL					REQUIRED	
SOR	_	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQU		NOT REC	NIIDED
ES		SIPHON TUBE	FROCESS CONNE	ECTION	NOTREGO		REQUIRED	ZOINED
ACC	_							
		MATERIAL CONNECTION INSTRUMENT	DDOCESS CONNE	CTION	NOT BEOL		REQUIRED	NUBED
			PROCESS CONNE	ECTION	NOT REQU		NOT REC	ZUIKED
		OVERPRESSURE PROTECTOR					REQUIRED	
		MATERIAL CONNECTION INSTRUMENT	PROCESS CONNE	CTION	NOT BEOL		REQUIRED	NUBED
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQI		NOT REC	QUIKED
	46	TAGGING				YES (SEE GI	ENERAL NOTES 2)	
	40	FLUID	DUVELCAL STATE		\A/ATE	Ъ	1101	IID.
S	_	FLUID	PHYSICAL STATE		WATE	.r.	LIQU	°C
OPERATING CONDITIONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		1,4	
TIQ		MINIMUM PRESSURE DESIGN PRESSURE	NORMAL DESIGN TEMPER	MAXIMUM	<u>-</u>		2,5	bar-g °C
CO	-	VISCOSITY @ OPERATING CON	DESIGN TEMPER	TIUNE	_		cР	<u> </u>
NG	40				-			
¥TI		DENSITY @ OPERATING CONDI	TION		-		kg/m³	
PEF		SUSPENDED SOLIDS (%) SOLIDIFIES AT ROOM TEMPERA	\TI IDE				-	
0	_		TIONE		•			
_	-	M.M. / Z / Cp/Cv			- NAMICA CO CULATIVA D			
		MANUFACTURER MODEL				WINAC	OR SILMILAR	
	50	MODEL			<u> </u>			

NOTES:









TITLE

SHEET: 40 de 61

REV.:

PRESSURE GAUGE SANITARY

PK	ES	SURE GAUGE SANITA	AK Y					2	
	1	INSTRUMENT TAG NUMBER				PI	-640111		
	2	SERVICE				CHILLED WATER LOOP SUPPLY			
	3	P&ID				7A:	-Z-0-2-24		
Į.	_	PIPE LINE	EQUIPMENT NUM	IBER	3"-GW0S-98009		·		
GENERAL		EQUIPMENT MATERIAL / PIPE				ASTM A270 Gr. TP316L			
Ä	_	AREA CLASSIFICATION					CLASSIFIED		
O	7	ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	<u> </u>	
	8	CERTIFICATES					ERAL NOTES 6)	<u> </u>	
	9	OLIVIII IO/VIEG				(022 0211	210121101200)		
	10	TYPE OF MEASUREMENT				Г	DIRECT		
	_	MOUNTING					LOCAL		
		DIAL DIAMETER					14 mm		
		SCALE COLOR	BACKGROUND C		BLAC		wh	ITE	
	_	PRECISION	BACKGROONDC	OLOIK			 AL VALUE "RANGE		
		MATERIAL CASE					POLISHED		
Ι	_	RANGE	RESOLUTION		0.006.6		0,	1	
JME		RING TYPE	RING MATERIAL		0 @ 6 b BAYON		304		
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PC	MOITION			BOT		
S _N		SENSOR TYPE	MATERIAL SENSO		1/2" NPT		316		
	_				316S		316		
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	3103	3		33	
		BALANCED POINTER MICROMETRIC ADJUSTMENT O	YES YES						
		FRONT TYPE	SOLI	D		ANCD MIN 750/			
		FILLING	YES		GLASS SEG. TRA				
	_	SEAL DIAPHRAGM	FLUID		150)	NO GLTC	EKIN	
					NO .				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	-			·	
		SEAL FILLING FLUID WET PART MATERIAL				2461 00 (000	- CENERAL NOTES 4	\	
		WET PART MATERIAL				•	GENERAL NOTES 4)	
		CAPILLARY LENGTH					REQUIRED		
		CAPILLARY MATERIAL PULSATION DAMPER					REQUIRED		
IES		MATERIAL					REQUIRED REQUIRED		
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQI		NOT RE	OLUBED	
ES		SIPHON TUBE	PROCESS CONN	ECTION	NOT REQU		REQUIRED	QUINED	
ACC		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT BEOL		NOT RE	OLUBED	
		OVERPRESSURE PROTECTOR	PROCESS CONN	ECTION	NOT REQI		REQUIRED	QUINED	
		MATERIAL					REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQI		NOT RE	OLIIDED	
	46	TAGGING	PROCESS COMM	ECTION	NOTREG		ENERAL NOTES 2)	QUINED	
	40	TAGGING				TES (SEE GI	ENERAL NOTES 2)		
_		FLUID	PHYSICAL STATE		WATE	:D	LIQI	IID	
S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	WAIL	-ix I		°C	
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	<u> </u>		1,4 2,5		
둳		DESIGN PRESSURE	DESIGN TEMPER		-	l	۷,5	°C	
Ś		VISCOSITY @ OPERATING CON		, , , OILL	+		cP	<u> </u>	
NG		DENSITY @ OPERATING COND			-		kg/m³		
₹		SUSPENDED SOLIDS (%)			-		-		
PEF		SOLIDIFIES AT ROOM TEMPERA	ATLIRE						
	_	M.M. / Z / Cp/Cv	TORL						
	_	MANUFACTURER			- WIKA OR SILMILAR				
ĺ	_	MODEL				WINAC	A SILIVIILAR		
NOT		INIODEL							

NOTES:









CLIENT NR: PRD-AIC-DSH-023 NUMBER: 569-DB7A-AIC-712-004

TITLE

41 de 61 REV.:

PRESSURE GAUGE SANITARY

L_					_			2
	1	INSTRUMENT TAG NUMBER				PI	-640112	
	2	SERVICE				STEAM SUPP	LY HIGH PRESSUR	
	3	P&ID				7A	-Z-0-2-24	
¥	4	PIPE LINE	EQUIPMENT NUM	BER	1 1/2"-IS8B-790	314-CS2-HC	-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L	
흥	6	AREA CLASSIFICATION				NOT (CLASSIFIED	
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529	
	8	CERTIFICATES					ERAL NOTES 6)	
	9					<u> </u>	<u>.</u>	
\Box	10	TYPE OF MEASUREMENT					DIRECT	
	11	MOUNTING			LOCAL			
	12	DIAL DIAMETER				1	14 mm	
		SCALE COLOR	BACKGROUND CO	DLOR	BLAC		WHI ⁻	 ΓΕ
	_	PRECISION					I VAL VALUE "RANGE"	
		MATERIAL CASE					POLISHED	
Ϊ́Ξ		RANGE	RESOLUTION		0 @ 16		0,1	
ME		RING TYPE	RING MATERIAL		BAYON		3048	
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP		ВОТТ	
Ι≌		SENSOR TYPE	MATERIAL SENSO		BOURE	` '	3165	
		MATERIAL SOQUETE	MECHANISM MAT		3168		3165	
		BALANCED POINTER	MEGITATOMINAT	LINAL	0.000	.0	YES	
		MICROMETRIC ADJUSTMENT O	F ZERO				YES	
		FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRA	NSP MIN 75%
					YES		GLYCE	
\vdash	_	SEAL DIAPHRAGM	LOID		125	,	NO GETCE	
			PROCESS CONNE	CTION	-		-	
		SEAL FILLING FLUID						
						3161 SS (SEE (GENERAL NOTES 4)	
	_					· · · · · · · · · · · · · · · · · · ·	REQUIRED	
		CAPILLARY MATERIAL					REQUIRED	
		PULSATION DAMPER					REQUIRED	
	_	MATERIAL					REQUIRED	
		CONNECTION INSTRUMENT	PROCESS CONNE	CTION	NOT REQ		NOT REQ	IIIDED
		SIPHON TUBE	FROCESS CONNE	CTION	NOTKEQ	UINED	YES	OINED
	_					20400	S POLISHED	
		MATERIAL CONNECTION INSTRUMENT	PROCESS CONNE	CTION	1/2" ND			T (M)
		OVERPRESSURE PROTECTOR	FROCESS CONNE	CTION	1/2" NP		1/2" NP REQUIRED	i (ivi)
		MATERIAL CONNECTION INSTRUMENT	PROCESS CONNE	CTION	NOT DEC		REQUIRED	HIDEN
		TAGGING	I ROCESS CONNE	LOTION	NOT REQ		NOT REQ ENERAL NOTES 2)	OINED
	_	INGOING				IES (SEE GI	LIVERAL INUTES 2)	
\vdash	40	FLUID	PHYSICAL STATE		WATE	=D	LIQU	ID
S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM				°C
NO.					-		- Q	
TIQ		MINIMUM PRESSURE DESIGN PRESSURE	NORMAL	MAXIMUM	-		8 - °	bar-g
OPERATING CONDITIONS			DESIGN TEMPERA	TIUNE		•	cP	<u> </u>
NG		VISCOSITY @ OPERATING COND			_			
βΤΤ		DENSITY @ OPERATING CONDI	TION		-		kg/m³	
PEF		SUSPENDED SOLIDS (%)	ATURE				-	
0		SOLIDIFIES AT ROOM TEMPERA	ATUKE				-	
\vdash	-	M.M. / Z / Cp/Cv		- WIKA OR SILMILAR				
	_	MANUFACTURER				WIKA	OR SILIMILAK	
	50	MODEL						

NOTES:









NUMBER: CLIENT NR: PRD-AIC-DSH-023 569-DB7A-AIC-712-004

TITLE

42 de 61 REV.:

PRESSURE GAUGE SANITARY

2 INSTRUMENT TAG NUMBER PI-650110 CLEAN STEAM FROM GENERATION TO STERILE FILTRATION - FIL-3901 2 SERVICE P&ID 7A-7-0-2-28 3 PIPE LINE **EQUIPMENT NUMBER** 7A-3/4"-SFI-650111-SS10-HC 4 EQUIPMENT MATERIAL / PIPE ASTM A270 Gr. TP316L AREA CLASSIFICATION NOT CLASSIFIED **ENCLOSURE CLASSIFICATION** IP 65 (MÍN.) CONF. NBR IEC 60529 CERTIFICATES (SEE GENERAL NOTES 6) 8 TYPE OF MEASUREMENT DIRECT 10 MOUNTING LOCAL 11 12 DIAL DIAMETER 114 mm 13 SCALE COLOR BACKGROUND COLOR WHITE BLACK PRECISION 1% OF THE FINAL VALUE "RANGE" 14 15 MATERIAL CASE 304SS POLISHED INSTRUMEN' 16 RANGE RESOLUTION 0 @ 6 bar-g 0.02 17 RING TYPE RING MATERIAL **BAYONET** 304SS 18 CONEX. PROCES. / ACESS. CONNECTION POSITION воттом 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR **BOURDON** 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS BALANCED POINTER YES MICROMETRIC ADJUSTMENT OF ZERO YES 22 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 75% 24 FILLING FLUID YES **GLYCERIN** SEAL DIAPHRAGM YES IN AISI 316L (SEE GENERAL NOTES 4) 25 CONNECTION INSTRUMENT PROCESS CONNECTION BY MANUFACTURER 1/2"-TRI-CLAMP-ASME BPE MEDICAL WHITE MINERAL OIL (FDA-APPROVED) SEAL FILLING FLUID 27 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 29 CAPILLARY LENGTH NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED 31 PULSATION DAMPER NOT REQUIRED 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED SIPHON TUBE NOT REQUIRED 34 NOT REQUIRED 35 MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION 36 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2) TAGGING 46 40 36 FLUID PHYSICAL STATE CLEAN STEAM STEAM 37 MINIMUM TEMPERATURE NORMAL MAXIMUM °C OPERATING CONDITIONS 38 MINIMUM PRESSURE NORMAL MAXIMUM 3 bar-a 39 DESIGN PRESSURE DESIGN TEMPERATURE °C 40 VISCOSITY @ OPERATING CONDITION сΡ 41 DENSITY @ OPERATING CONDITION ka/m³ 42 SUSPENDED SOLIDS (%) NOT SOLIDIFIES AT ROOM TEMPERATURE 43 44 M.M. / Z / Cp/Cv / / MANUFACTURER WIKA OR SILMILAR 49

NOTES:

50 MODEL









TITLE

SHEET: 43 de 61

REV.: **2**

PRESSURE GAUGE SANITARY

Ь.									
	1	INSTRUMENT TAG NUMBER				PI-650101			
	2	SERVICE				STEAM SUPPLY HIGH PRESSURE			
	3	P&ID				7A	-Z-0-2-27		
뒫	4	PIPE LINE	EQUIPMENT NUM	BER	2 1/2"-IS8B-650	107-CS2-HC	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE	•			ASTM A2	270 Gr. TP316L		
B	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529		
	8	CERTIFICATES				(SEE GEN	IERAL NOTES 6)		
	9								
	10	TYPE OF MEASUREMENT			DIRECT				
	11	MOUNTING				LOCAL			
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND CO	OLOR	BLAC	K	WHIT	 [E	
	14	PRECISION				1% OF THE FIN	I NAL VALUE "RANGE"		
		MATERIAL CASE					S POLISHED		
F		RANGE	RESOLUTION		0 @ 16 I	par-d	0,02	 !	
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON		3048		
STR	_	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP		вотт		
ΙĔ		SENSOR TYPE	MATERIAL SENSO		BOURE		3168		
		MATERIAL SOQUETE	MECHANISM MAT		3168		3168		
		BALANCED POINTER	INICOLUMNICA		0100		YES		
		MICROMETRIC ADJUSTMENT O	F ZERO				YES		
		FRONT TYPE	windows		SOLI	D	GLASS SEG. TRA	NSP MIN 75%	
		FILLING	FLUID		YES		GLYCE		
\vdash	-	SEAL DIAPHRAGM	1 2015		120	<u></u>	NO SET SE		
		CONNECTION INSTRUMENT	PROCESS CONNE	CTION					
		SEAL FILLING FLUID					<u> </u>		
						316LSS (SEE)	GENERAL NOTES 4)		
						· · · · · · · · · · · · · · · · · · ·	REQUIRED		
		CAPILLARY MATERIAL					REQUIRED		
1		PULSATION DAMPER					REQUIRED		
SES		MATERIAL					REQUIRED		
SOF		CONNECTION INSTRUMENT	PROCESS CONNE	CTION	NOT REQ		NOT REQ	UIRED	
ACCESSORIES		SIPHON TUBE				0122	YES		
Ä		MATERIAL				30488	S POLISHED		
			PROCESS CONNE	CTION	1/2" NP		1/2" NP	T (M)	
		OVERPRESSURE PROTECTOR	1				REQUIRED	v ::/	
		MATERIAL					REQUIRED		
			PROCESS CONNE	ECTION	NOT REQ		NOT REQ	UIRED	
		TAGGING	1	-	1131112		I ENERAL NOTES 2)		
	40					, 0.	- : /		
\vdash		FLUID	PHYSICAL STATE		AIR		GAS	 3	
<u>S</u>		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	· -		°C	
OPERATING CONDITIONS	_	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	8	bar-g	
NDI		DESIGN PRESSURE	DESIGN TEMPERA			1	L	C C	
OO		VISCOSITY @ OPERATING CON					I		
.ING		DENSITY @ OPERATING CONDI					kg/m³		
RAT		SUSPENDED SOLIDS (%)	-				<u> </u>		
)PE		SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
		M.M. / Z / Cp/Cv							
\vdash	-	MANUFACTURER			/ / WIKA OR SILMILAR				
		MODEL				771101			
NOT									

NOTES:









CLIENT NR: PRD-AIC-DSH-023 NUMBER: 569-DB7A-AIC-712-004

TITLE

44 de 61

PRESSURE GAUGE SANITARY

REV.:

'		CORE CASCE CANTA						2	
	1	INSTRUMENT TAG NUMBER				PI	-650102	•	
	2	SERVICE				LOOP SUPPL	Y CHILLED WATER		
	3	P&ID				7A	-Z-0-2-27		
	4	PIPE LINE	EQUIPMENT NUM	IBER	2 1/2"-IS8B-650	107-CS2-HC	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	1 270 Gr. TP316L		
B.	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	<u> </u>	
	8	CERTIFICATES					IERAL NOTES 6)		
	9					(
	-	TYPE OF MEASUREMENT				Г	DIRECT		
		MOUNTING			LOCAL				
		DIAL DIAMETER				114 mm			
		SCALE COLOR	BACKGROUND C	OLOR	BLACK WHITE				
	-	PRECISION	BACKEROUND	OLOIT			 NAL VALUE "RANGE		
		MATERIAL CASE					S POLISHED		
F		RANGE	RESOLUTION		0 @ 6 b		0,0	2	
JME		RING TYPE	RING MATERIAL		BAYON		304		
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	NOITION			BOT		
<u>S</u>	_	SENSOR TYPE	MATERIAL SENS		1/2" NP	. ,	316		
		MATERIAL SOQUETE			3168		316		
			MECHANISM MAT	ERIAL	3103	<u> </u>	YES	33	
		BALANCED POINTER MICROMETRIC ADJUSTMENT OF ZERO			YES				
		FRONT TYPE	SOLI		GLASS SEG. TRA	ANCD MIN 750/			
			YES						
\vdash		FILLING SEAL DIAPHRAGM	FLUID		TES)	NO GLYC	EKIN	
							I		
			PROCESS CONN	ECTION	-		-		
		SEAL FILLING FLUID WET PART MATERIAL				2161 00 (000	CENERAL NOTES 4)		
		WET PART MATERIAL				· · · · · · · · · · · · · · · · · · ·	GENERAL NOTES 4)	<u> </u>	
		CAPILLARY LENGTH					REQUIRED		
		CAPILLARY MATERIAL PULSATION DAMPER					REQUIRED REQUIRED		
IES	-	MATERIAL					REQUIRED		
SOR		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REC	OLUBED.	
ACCESSORIES			PROCESS CONN	ECTION	NOTREQ		l .	ZUIKED	
ACC		SIPHON TUBE MATERIAL					REQUIRED REQUIRED		
			PROCESS CONN	ECTION	NOT REQ		NOT REG	OLUBED.	
		OVERPRESSURE PROTECTOR	PROCESS CONN	ECTION	NOTREQ		REQUIRED	ZOINED	
		MATERIAL					REQUIRED		
			PROCESS CONN	ECTION	NOT REQ		NOT REC	JUIDED	
		TAGGING	I ROOLOG GONIV	LOTION	NOTINE		ENERAL NOTES 2)	ZOIIVED	
	40	TAGGING				TEO (OLL OI	LIVETURE NOTES 2)		
		FLUID	PHYSICAL STATE	 :	AIR		G.A	19	
S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		_	°C	
NO!		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		2,5	bar-g	
FIG		DESIGN PRESSURE	DESIGN TEMPER		<u> </u>	L -		°C	
CO		VISCOSITY @ OPERATING CON			_		 cP		
NG		DENSITY @ OPERATING CONDI			<u> </u>		kg/m³		
₹ATI		SUSPENDED SOLIDS (%)			-		-		
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
			5112		NOT , , ,				
		M.M. / Z / Cp/Cv MANUFACTURER			/ / WIKA OR SILMILAR				
	-	MODEL				VVIIVA C	OILWILAIN		
		MODEL							

NOTES:









CLIENT NR: NUMBER: 569-DB7A-AIC-712-004 PRD-AIC-DSH-023

TITLE

45 de 61

REV.:

2

PRESSURE GAUGE SANITARY

1 INSTRUMENT TAG NUMBER

PI-650103 LOOP RETURN CHILLED WATER

	'	INSTRUMENT TAG NUMBER					-650103	
	2	SERVICE			L	OOP RETUR	N CHILLED WATER	
	3	P&ID				7A	-Z-0-2-27	
l _₹	4	PIPE LINE	EQUIPMENT NUM	MBER	1 1/2"-GW0R-6501	22-CS1-CC	-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L	
l Ĥ	6	AREA CLASSIFICATION				NOT (CLASSIFIED	
	7	ENCLOSURE CLASSIFICATION			IF	9 65 (MÍN.) CO	ONF. NBR IEC 60529	
	8	CERTIFICATES					ERAL NOTES 6)	
	9					<u>·</u>		
	10	TYPE OF MEASUREMENT					DIRECT	
	11	MOUNTING				ı	OCAL	
	12	DIAL DIAMETER				1	14 mm	
	13	SCALE COLOR	BACKGROUND C	COLOR	BLACK		WH	TE
	14	PRECISION			19	% OF THE FIN	I IAL VALUE "RANGE	"
		MATERIAL CASE				30488	POLISHED	
۱Ä		RANGE	RESOLUTION		0 @ 6 bar	:-a	0,0	2
] M		RING TYPE	RING MATERIAL		BAYONE		304	
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT (ВОТ	
ΙĔ		SENSOR TYPE	MATERIAL SENS		BOURDO		316	
	-	MATERIAL SOQUETE	MECHANISM MA		316SS	••	316	
		BALANCED POINTER			0.000		YES	
		MICROMETRIC ADJUSTMENT C	DE ZERO				YES	
		FRONT TYPE	WINDOWS		SOLID		GLASS SEG. TRA	ANSP MIN 75%
	_	FILLING	FLUID		YES		GLYC	
\vdash	_	SEAL DIAPHRAGM	I LOID		120		NO GETO	LIKIN
		CONNECTION INSTRUMENT	PROCESS CONN	IECTION			-	
		SEAL FILLING FLUID	PROCESS CONN	IECTION	-		-	
		WET PART MATERIAL	20	161 00 (000	- CENERAL NOTES 4)			
					3	· · · · · · · · · · · · · · · · · · ·	GENERAL NOTES 4)	1
		CAPILLARY LENGTH					REQUIRED	
		CAPILLARY MATERIAL PULSATION DAMPER					REQUIRED	
ES							REQUIRED	
ACCESSORIES		MATERIAL CONNECTION INSTRUMENT	IDDOCESS CONN	IECTION	NOT BEOLU		REQUIRED	NUDED.
ESS		CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQUI		NOT REC	ZUIKED
βĞ		SIPHON TUBE					REQUIRED	
	-	MATERIAL CONNECTION INCOME.	Indoneso com	IFOTION	NOT DECLU		REQUIRED	
		CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQUI		NOT REC	JUIKED
		OVERPRESSURE PROTECTOR					REQUIRED	
		MATERIAL CONNECTION INSTRUMENT	DROCESS COM	IECTION	NOT DECL!!		REQUIRED	VIIDED
	39		PROCESS CONN	ILOTION	NOT REQUI		NOT REC	∡∪IΛ⊏D
	46	TAGGING				IES (SEE GI	ENERAL NOTES 2)	
-	40	ELLID	DHVSICAL STATE		AID			.9
l s		FLUID	PHYSICAL STATE	1	AIR		G <i>A</i>	°C
ΝO		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL DESIGN TEMPER	MAXIMUM	-	-	2,5	°C
6		DESIGN PRESSURE VISCOSITY @ OPERATING CON		VATURE			cР	<u> </u>
NG	_				-			
ĭ¥		DENSITY @ OPERATING COND	ITION		-		kg/m³	
PER		SUSPENDED SOLIDS (%)	ATUDE				- NOT	
٥		SOLIDIFIES AT ROOM TEMPER	AIUKE				NOT	
-	-	M.M. / Z / Cp/Cv			+		/ /	
	_	MANUFACTURER				WIKA	OR SILMILAR	
L_NOT		MODEL						

NOTES:









TITLE

SHEET: 46 de 61

PRESSURE GAUGE SANITARY

46
REV.:

PK	E5	SURE GAUGE SANTA	ARY					2 REV.:
	1	INSTRUMENT TAG NUMBER				PI	-650104	
	2	SERVICE			Α	IR SUPPLY CO	OMP. (INSTRUMEN	Γ)
		P&ID					-Z-0-2-27	,
Ļ		PIPE LINE	EQUIPMENT NUM	MBER	1/2"-CA-71001			-
ER/		EQUIPMENT MATERIAL / PIPE	1			-	1 270 Gr. TP316L	
GENERAL	_	AREA CLASSIFICATION			NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	
	8	CERTIFICATES				. ,	ERAL NOTES 6)	9
	9	OLIVIII IOATES				(OLL OLN	LIVAL NOTES 0)	
	_	TYPE OF MEASUREMENT			DIRECT			
		MOUNTING					OCAL	
		DIAL DIAMETER					14 mm	
			BACKCBOHND C	OL OR	PLAC			UTC
		SCALE COLOR	BACKGROUND C	OLOR	BLAC			IITE
		PRECISION			1		IAL VALUE "RANGE	<u>:"</u>
F		MATERIAL CASE	Inconstant		0.0401		POLISHED	
ME		RANGE	RESOLUTION		0 @ 10 b		0,0	
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON			ISS
.SNI		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT		ВОТ	
	19	SENSOR TYPE	MATERIAL SENSO	OR	BOURD	ON	316	SSS
		MATERIAL SOQUETE	MECHANISM MAT	TERIAL	316S	3	316	SSS
		BALANCED POINTER					YES	
		MICROMETRIC ADJUSTMENT OF ZERO				YES CLASS SEC TRANSPIL		
	23	FRONT TYPE	WINDOWS		SOLI)	GLASS SEG. TR	ANSP. MIN. 75%
	24	FILLING	FLUID		YES		GLYC	ERIN
	25	SEAL DIAPHRAGM					NO	
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			-			-
	27	SEAL FILLING FLUID					-	
	28	WET PART MATERIAL			:	316LSS (SEE 0	GENERAL NOTES 4)
	29	CAPILLARY LENGTH				NOT	REQUIRED	
	30	CAPILLARY MATERIAL				NOT	REQUIRED	
S	31	PULSATION DAMPER				NOT	REQUIRED	
ACCESSORIES	32	MATERIAL				NOT	REQUIRED	
SSC	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQU	JIRED	NOT RE	QUIRED
CE	34	SIPHON TUBE				NOT	REQUIRED	
Ă	35	MATERIAL				NOT	REQUIRED	
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQU	JIRED	NOT RE	QUIRED
	37	OVERPRESSURE PROTECTOR	-			NOT	REQUIRED	
	38	MATERIAL				NOT	REQUIRED	
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQU	JIRED	NOT RE	QUIRED
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)	
	40							
	36	FLUID	PHYSICAL STATE		AIR		G	AS
NS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	30	°C
OPERATING CONDITIONS	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	6	bar-g
ND	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE				°C
300	40	VISCOSITY @ OPERATING CON	DITION			-	cР	
ĭ	41	DENSITY @ OPERATING CONDI	TION			-	kg/m³	
.K	42	SUSPENDED SOLIDS (%)					-	
OPE	43	SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT	
	44	M.M. / Z / Cp/Cv			1			
	_	MANUFACTURER				WIKA C	R SILMILAR	
	50	MODEL						
		l						

NOTES:









CLIENT NR: PRD-AIC-DSH-023 NUMBER: 569-DB7A-AIC-712-004

TITLE

47 de 61 REV.:

PRESSURE GAUGE SANITARY

							2	
	1	INSTRUMENT TAG NUMBER				PI-650111		
	2	SERVICE			CLEAN STEAM SUPPLY	TO CIP/SIP STATION, STA-4	701	
	3	P&ID			7	A-Z-0-2-28		
٩L	4	PIPE LINE	EQUIPMENT NUM	IBER	7A-3/4"-SFI-650116-SS10-HC	-		
IER/	5	EQUIPMENT MATERIAL / PIPE			ASTM	 \270 Gr. TP316L		
GENERAL		AREA CLASSIFICATION			NO7	CLASSIFIED		
		ENCLOSURE CLASSIFICATION				CONF. NBR IEC 60529		
	8	CERTIFICATES				NERAL NOTES 6)		
	9							
_	10	TYPE OF MEASUREMENT			DIRECT			
		MOUNTING				LOCAL		
		DIAL DIAMETER			114 mm			
		SCALE COLOR	BACKGROUND C	OLOR	BLACK	I WHITE		
		PRECISION	BAOKOKOKO O	OLOIT		INAL VALUE "RANGE"		
		MATERIAL CASE				SS POLISHED		
LΝ		RANGE	DESCULITION					
JME			RESOLUTION		0 @ 1.6 bar-g	0,02		
INSTRUMENT		RING TYPE	RING MATERIAL	OUTION	BAYONET	304SS		
INS		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT (M) / COOLING ELEMEN	-		
	_	SENSOR TYPE	MATERIAL SENS		BOURDON	316SS		
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316SS	316SS		
		BALANCED POINTER				YES		
		MICROMETRIC ADJUSTMENT O				YES		
		FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRANSP. N	/IN. 75%	
	_	FILLING	FLUID		YES	GLYCERIN		
		SEAL DIAPHRAGM	•			(SEE GENERAL NOTES 4)		
	26	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFACTURER	1/2"-TRI-CLAMP-ASME		
	27	SEAL FILLING FLUID			MEDICAL WHITE MI	NERAL OIL (FDA-APPROVED))	
	28	WET PART MATERIAL			316LSS (SEE	GENERAL NOTES 4)		
	29	CAPILLARY LENGTH			NO	T REQUIRED		
	30	CAPILLARY MATERIAL			NO	T REQUIRED		
SE		PULSATION DAMPER			NO	T REQUIRED		
ACCESSORIES	32	MATERIAL			NO	REQUIRED		
SS	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED		
CCE	34	SIPHON TUBE			YES USE (COOLING ELEMENT		
⋖	35	MATERIAL				316L SS		
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	1/2" NPT (F)	BY MANUFACTURE	ER	
	37	OVERPRESSURE PROTECTOR			NO	required		
	38	MATERIAL			NO	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING			YES (SEE	GENERAL NOTES 2)		
	40							
	36	FLUID	PHYSICAL STATE		CLEAN STEAM	STEAM		
SNS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,		°C	
OPERATING CONDITIONS	38	MINIMUM PRESSURE	NORMAL	MAXIMUM		t	oar-g	
JNC	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE		°C		
၂၁၂	40	VISCOSITY @ OPERATING CON	IDITION			cP		
Ž	41	DENSITY @ OPERATING COND	ITION			kg/m³		
ERA	42	SUSPENDED SOLIDS (%)				NOT		
OP	43	SOLIDIFIES AT ROOM TEMPERA	ATURE			NOT		
	44	M.M. / Z / Cp/Cv				.11		
	49	MANUFACTURER			WIKA	OR SILMILAR		
	50	MODEL						
NOT					•			

NOTES:









NUMBER: CLIENT NR: PRD-AIC-DSH-023 569-DB7A-AIC-712-004

TITLE

48 de 61

REV.: 2

PRESSURE GAUGE SANITARY

INSTRUMENT TAG NUMBER PI-700006 2 SERVICE COMPRESSED AIR P&ID 7A-7-0-2-36 3 PIPE LINE **EQUIPMENT NUMBER** 7A-1 1/2"-CAP-700001-SS10-NI 4 EQUIPMENT MATERIAL / PIPE ASTM A270 Gr. TP316L AREA CLASSIFICATION NOT CLASSIFIED **ENCLOSURE CLASSIFICATION** IP 65 (MÍN.) CONF. NBR IEC 60529 CERTIFICATES (SEE GENERAL NOTES 6) 8 TYPE OF MEASUREMENT DIRECT 10 MOUNTING LOCAL 11 12 DIAL DIAMETER 114 mm 13 SCALE COLOR BACKGROUND COLOR WHITE BLACK PRECISION 1% OF THE FINAL VALUE "RANGE" 14 MATERIAL CASE 304SS POLISHED 15 INSTRUMEN' 16 RANGE RESOLUTION 0 @ 10 bar-g 0.2 17 RING TYPE RING MATERIAL **BAYONET** 304SS 18 CONEX. PROCES. / ACESS. CONNECTION POSITION воттом 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR **BOURDON** 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS BALANCED POINTER YES MICROMETRIC ADJUSTMENT OF ZERO YES 22 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 75% 24 FILLING FLUID **GLYCERIN** SEAL DIAPHRAGM 25 YES IN AISI 316L (SEE GENERAL NOTES 4) CONNECTION INSTRUMENT PROCESS CONNECTION BY MANUFACTURER 1/2"-TRI-CLAMP-ASME BPE MEDICAL WHITE MINERAL OIL (FDA-APPROVED) SEAL FILLING FLUID 27 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 29 CAPILLARY LENGTH NOT REQUIRED CAPILLARY MATERIAL 30 NOT REQUIRED PULSATION DAMPER NOT REQUIRED 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED **NOT REQUIRED** SIPHON TUBE NOT REQUIRED 34 NOT REQUIRED 35 MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 36 OVERPRESSURE PROTECTOR NOT REQUIRED 37 38 MATERIAL NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2) TAGGING 46 40 36 FLUID PHYSICAL STATE AIR GAS 37 MINIMUM TEMPERATURE NORMAL MAXIMUM °C OPERATING CONDITIONS 38 MINIMUM PRESSURE NORMAL MAXIMUM bar-a 39 DESIGN PRESSURE DESIGN TEMPERATURE °C 40 VISCOSITY @ OPERATING CONDITION сΡ 41 DENSITY @ OPERATING CONDITION ka/m³ 42 SUSPENDED SOLIDS (%) NOT SOLIDIFIES AT ROOM TEMPERATURE 43 NOT M.M. / Z / Cp/Cv / / MANUFACTURER WIKA OR SILMILAR 49 50 MODEL

NOTES:









NUMBER: CLIENT NR: PRD-AIC-DSH-023 569-DB7A-AIC-712-004

TITLE

49 de 61

REV.:

PRESSURE GAUGE SANITARY

2 INSTRUMENT TAG NUMBER PI-700007 2 SERVICE CLEAN COMPRESSED AIR P&ID 7A-Z-0-2-36 3 PIPE LINE **EQUIPMENT NUMBER** 7A-1 1/2"-CAP-700001-SS10-NI 4 EQUIPMENT MATERIAL / PIPE ASTM A270 Gr. TP316L AREA CLASSIFICATION NOT CLASSIFIED **ENCLOSURE CLASSIFICATION** IP 65 (MÍN.) CONF. NBR IEC 60529 CERTIFICATES (SEE GENERAL NOTES 6) 8 TYPE OF MEASUREMENT DIRECT 10 MOUNTING LOCAL 11 12 DIAL DIAMETER 114 mm 13 SCALE COLOR BACKGROUND COLOR WHITE BLACK PRECISION 1% OF THE FINAL VALUE "RANGE" 14 15 MATERIAL CASE 304SS POLISHED INSTRUMEN' 16 RANGE RESOLUTION 0 @ 10 bar-g 0.2 17 RING TYPE RING MATERIAL **BAYONET** 304SS 18 CONEX. PROCES. / ACESS. CONNECTION POSITION воттом 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR **BOURDON** 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS BALANCED POINTER YES MICROMETRIC ADJUSTMENT OF ZERO YES 22 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 75% 24 FILLING FLUID YES **GLYCERIN** SEAL DIAPHRAGM 25 YES IN AISI 316L (SEE GENERAL NOTES 4) CONNECTION INSTRUMENT PROCESS CONNECTION BY MANUFACTURER 1/2"-TRI-CLAMP-ASME BPE MEDICAL WHITE MINERAL OIL (FDA-APPROVED) SEAL FILLING FLUID 27 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 29 CAPILLARY LENGTH NOT REQUIRED CAPILLARY MATERIAL 30 NOT REQUIRED PULSATION DAMPER NOT REQUIRED 31 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED **NOT REQUIRED** SIPHON TUBE NOT REQUIRED 34 NOT REQUIRED 35 MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 36 OVERPRESSURE PROTECTOR NOT REQUIRED 37 38 MATERIAL NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2) TAGGING 46 40 36 FLUID PHYSICAL STATE NITROGEN GAS 37 MINIMUM TEMPERATURE NORMAL MAXIMUM °C OPERATING CONDITIONS 38 MINIMUM PRESSURE NORMAL MAXIMUM bar-a 39 DESIGN PRESSURE DESIGN TEMPERATURE °C 40 VISCOSITY @ OPERATING CONDITION сΡ 41 DENSITY @ OPERATING CONDITION ka/m³ 42 SUSPENDED SOLIDS (%) NOT SOLIDIFIES AT ROOM TEMPERATURE 43 NOT M.M. / Z / Cp/Cv / / MANUFACTURER WIKA OR SILMILAR 49

NOTES:

50 MODEL









TITLE

50 de 61

REV.:

PRESSURE GAUGE SANITARY

								2
	1	INSTRUMENT TAG NUMBER				PI	-700008	
	2	SERVICE				CLEAN CC	MPRESSED AIR	
	3	P&ID				7A	-Z-0-2-36	
AL.	4	PIPE LINE	EQUIPMENT NUM	BER	7A-1 1/2"-CAP-70	0001-SS10-NI	-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE	I			ASTM A2	270 Gr. TP316L	
GEN	6	AREA CLASSIFICATION				NOT (CLASSIFIED	
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	
	8	CERTIFICATES					ERAL NOTES 6)	
	9						,	
	<u> </u>	TYPE OF MEASUREMENT			DIRECT			
		MOUNTING			LOCAL			
	12	DIAL DIAMETER				1	14 mm	
		SCALE COLOR	BACKGROUND CO	OLOR	BLAC	K	WHI	TE
	_	PRECISION					I IAL VALUE "RANGE'	
		MATERIAL CASE					POLISHED	
IN		RANGE	RESOLUTION		0 @ 10 t		0,2)
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON		304	
STR		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP1		ВОТТ	
Ž		SENSOR TYPE	MATERIAL SENSO		BOURD		316	
		MATERIAL SOQUETE	MECHANISM MAT		316S		316	
	_	BALANCED POINTER			0.00		YES	
		MICROMETRIC ADJUSTMENT O	F 7FRO				YES	
		FRONT TYPE	windows		SOLI		GLASS SEG. TRA	ANSP MIN 75%
	_	FILLING	FLUID		YES		GLYC	
_	_	SEAL DIAPHRAGM			SEE GENERAL NOTE			
	_	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	BY MANUFA	<u> </u>	1/2"-TRI-CLAM	<u> </u>
		SEAL FILLING FLUID	I KOOLOO OOMM	2011014			ERAL OIL (FDA-APPI	
		WET PART MATERIAL					GENERAL NOTES 4)	
	_	WET PART MATERIAL CAPILLARY LENGTH				•	REQUIRED	
	30	CAPILLARY MATERIAL					REQUIRED	
		PULSATION DAMPER					REQUIRED	
ACCESSORIES		MATERIAL					REQUIRED	
SOF		CONNECTION INSTRUMENT	PROCESS CONNE	-CTION	NOT REQ		NOT REC	DUIRED
CES		SIPHON TUBE					REQUIRED	20
AC	_	MATERIAL					REQUIRED	
			PROCESS CONNE	ECTION	NOT REQ		NOT REC	OLURED
		OVERPRESSURE PROTECTOR	1 1100200 001111		NOTILE		REQUIRED	2011125
		MATERIAL					REQUIRED	
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ		NOT REC	DUIRED
	46	TAGGING					ENERAL NOTES 2)	2025
	40	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				. 20 (022 0.		
	<u> </u>	FLUID	PHYSICAL STATE		NITRO	EN	GA	.s
SI		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		 		°C
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	,			bar-g
		DESIGN PRESSURE	DESIGN TEMPERA	1		l		°C
CO	40	VISCOSITY @ OPERATING CON					cP	-
ING		DENSITY @ OPERATING CONDI					kg/m³	
RAT		SUSPENDED SOLIDS (%)					NOT	
)PE		SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT	
		M.M. / Z / Cp/Cv			/ /			
\vdash	-	MANUFACTURER					OR SILMILAR	
		MODEL						
	50	<u> </u>			1			

NOTES:









NUMBER: CLIENT NR: PRD-AIC-DSH-023 569-DB7A-AIC-712-004

TITLE

51 de 61

REV.:

PRESSURE GAUGE SANITARY

2 INSTRUMENT TAG NUMBER PI-860006 2 SERVICE NITROGEN UPSTREAM FILTER 7A-FGA-8600-1 P&ID 3 7A-7-0-2-34 7A-1"-GNP-860001-SS10-N PIPE LINE **EQUIPMENT NUMBER** 4 EQUIPMENT MATERIAL / PIPE ASTM A270 Gr. TP316L AREA CLASSIFICATION NOT CLASSIFIED **ENCLOSURE CLASSIFICATION** IP 65 (MÍN.) CONF. NBR IEC 60529 CERTIFICATES (SEE GENERAL NOTES 6) 8 TYPE OF MEASUREMENT DIRECT 10 MOUNTING LOCAL 11 12 DIAL DIAMETER 114 mm 13 SCALE COLOR BACKGROUND COLOR WHITE BLACK PRECISION 1% OF THE FINAL VALUE "RANGE" 14 15 MATERIAL CASE 304SS POLISHED INSTRUMEN' 16 RANGE RESOLUTION 0 @ 10 bar-g 0.1 17 RING TYPE RING MATERIAL **BAYONET** 304SS 18 CONEX. PROCES. / ACESS. CONNECTION POSITION воттом 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR **BOURDON** 316SS 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 316SS BALANCED POINTER YES MICROMETRIC ADJUSTMENT OF ZERO YES 22 23 FRONT TYPE WINDOWS SOLID GLASS SEG. TRANSP. MIN. 75% 24 FILLING FLUID YES **GLYCERIN** SEAL DIAPHRAGM 25 YES IN AISI 316L (SEE GENERAL NOTES 4) CONNECTION INSTRUMENT PROCESS CONNECTION BY MANUFACTURER 1/2"-TRI-CLAMP-ASME BPE MEDICAL WHITE MINERAL OIL (FDA-APPROVED) SEAL FILLING FLUID 27 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 29 CAPILLARY LENGTH NOT REQUIRED CAPILLARY MATERIAL 30 NOT REQUIRED PULSATION DAMPER NOT REQUIRED 31 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED **NOT REQUIRED** SIPHON TUBE NOT REQUIRED 34 NOT REQUIRED 35 MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 36 OVERPRESSURE PROTECTOR NOT REQUIRED 37 38 MATERIAL NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2) TAGGING 46 40 36 FLUID PHYSICAL STATE NITROGEN GAS 37 MINIMUM TEMPERATURE NORMAL MAXIMUM °C OPERATING CONDITIONS 38 MINIMUM PRESSURE NORMAL MAXIMUM bar-a 39 DESIGN PRESSURE DESIGN TEMPERATURE °C 40 VISCOSITY @ OPERATING CONDITION сΡ 41 DENSITY @ OPERATING CONDITION ka/m³ 42 SUSPENDED SOLIDS (%) NOT SOLIDIFIES AT ROOM TEMPERATURE 43 NOT M.M. / Z / Cp/Cv / / MANUFACTURER WIKA OR SILMILAR 49 50 MODEL

NOTES:









TITLE

52 de 61

REV.:

PRESSURE GAUGE SANITARY

1 INSTRUMENT TAG NUMBER									2
3 PAID		1	INSTRUMENT TAG NUMBER				PI	-860007	
2		2	SERVICE			NITRO	OGEN UPSTRE	AM FILTER 7A-FGA-86	600-2
		3	P&ID				7A	-Z-0-2-34	
PROCUSURE CLASSIFICATION	₹	4	PIPE LINE	EQUIPMENT NUM	MBER	7A-1"-GNP-860	001-SS10-N	-	
PROCUSURE CLASSIFICATION	LER	5	EQUIPMENT MATERIAL / PIPE	•			ASTM A2	270 Gr. TP316L	
8 CERTIFICATES (SEE GENERAL NOTES 6)	l jij	6	AREA CLASSIFICATION				NOT (CLASSIFIED	
1		7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529	
10 TYPE OF MEASUREMENT		8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)	
11 MOUNTING		9							
12 2 13 SOALE COLOR BACKGROUND COLOR BLACK WHITE		10	TYPE OF MEASUREMENT					DIRECT	
SCALE COLOR BACKGROUND COLOR BLACK WHITE		11	MOUNTING				l	OCAL	
14 PRECISION		12	DIAL DIAMETER				1	14 mm	
15 MATERIAL CASE		13	SCALE COLOR	BACKGROUND C	COLOR	BLAC	CK	WHIT	 E
To RANGE RESOLUTION 0 @ 10 bar-g 0.1		14	PRECISION				1% OF THE FIN	I NAL VALUE "RANGE"	
1 SENSOR TYPE		15	MATERIAL CASE				30488	POLISHED	
1 SENSOR TYPE	I L	16	RANGE	RESOLUTION		0 @ 10	bar-g	0,1	
1 SENSOR TYPE	Į N N	17	RING TYPE	RING MATERIAL		BAYO	NET	3048	 3
1 SENSOR TYPE	STR	18	CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NP	T (M)	ВОТТС	PM
21 BALANCED POINTER	Z	19	SENSOR TYPE	MATERIAL SENS	OR			31688	 3
22 MICROMETRIC ADJUSTMENT OF ZERO		20	MATERIAL SOQUETE	MECHANISM MA	TERIAL	3168	SS	316S	 3
23 FRONT TYPE		21	BALANCED POINTER	1				YES	
SEAL DIAPHRAGM		22	MICROMETRIC ADJUSTMENT O	F ZERO				YES	
25 SEAL DIAPHRAGM		23	FRONT TYPE	WINDOWS		SOL	ID	GLASS SEG. TRAN	ISP. MIN. 75%
26 CONNECTION INSTRUMENT PROCESS CONNECTION BY MANUFACTURER 1/2*-TRI-CLAMP-ASME BPE 27 SEAL FILLING FLUID MEDICAL WHITE MINERAL OIL (FDA-APPROVED) 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 30 CAPILLARY LENGTH NOT REQUIRED 31 PULSATION DAMPER PROCESS CONNECTION NOT REQUIRED 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 34 SIPHON TUBE NOT REQUIRED NOT REQUIRED 35 MATERIAL NOT REQUIRED NOT REQUIRED 36 MATERIAL NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED NOT REQUIRED 38 MATERIAL NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 40 TAGGING YES (SEE GENERAL NOTES 2) 40 SIPHON TUBE NOT REQUIRED 58 FLUID PHYSICAL STATE NITROGEN GAS 59 MINIMUM TEMPERATURE NORMAL MAXIMUM Maximu		24	FILLING	FLUID		YES	3	GLYCE	RIN
26 CONNECTION INSTRUMENT PROCESS CONNECTION BY MANUFACTURER 1/2*-TRI-CLAMP-ASME BPE 27 SEAL FILLING FLUID MEDICAL WHITE MINERAL OIL (FDA-APPROVED) 28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4) 30 CAPILLARY LENGTH NOT REQUIRED 31 PULSATION DAMPER NOT REQUIRED 32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 34 SIPHON TUBE NOT REQUIRED NOT REQUIRED 35 MATERIAL NOT REQUIRED NOT REQUIRED 36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED NOT REQUIRED 38 MATERIAL NOT REQUIRED NOT REQUIRED 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 40 TAGGING YES (SEE GENERAL NOTES 2) 40 SIPHON TUBE NOT REQUIRED NOT REQUIRED 40 VISCOSITY @ OPERATING CONDITION OP 40 VISCOSITY @ OPERATING CONDITION MAXIMUM DAI-FIG 41 DENSITY @ OPERATING CONDITION MAXIMUM DAI-FIG 42 MANUFACTURER WIKA OR SILMILAR 49 MANUFACTURER WIKA OR SILMILAR 49 MANUFACTURER WIKA OR SILMILAR CANNECTION INSTRUMENT PROCESS CONNECTION NOT 40 MANUFACTURER WIKA OR SILMILAR 50 MINIMUM TEMPERATURE NOT		25	SEAL DIAPHRAGM			YES	IN AISI 316L (S	LEE GENERAL NOTES	5 4)
28 WET PART MATERIAL 316LSS (SEE GENERAL NOTES 4)		26	CONNECTION INSTRUMENT	PROCESS CONN	IECTION				•
29 CAPILLARY LENGTH 30 CAPILLARY MATERIAL 31 PULSATION DAMPER 32 MATERIAL 33 CONNECTION INSTRUMENT 34 SIPHON TUBE 35 MATERIAL 36 CONNECTION INSTRUMENT 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 CONNECTION INSTRUMENT 40 PROCESS CONNECTION 40 PHYSICAL STATE 40 VISCOSITY @ OPERATING CONDITION 40 PROCESS USE PROTECTOR 40 VISCOSITY @ OPERATING CONDITION 40 PROCESS USE PROTECTOR 40 VISCOSITY @ OPERATING CONDITION 40 PROCESS CONDITION 40 PROCESS CONNECTION 40 PHYSICAL STATE 41 DENSITY @ OPERATING CONDITION 44 M.M. / Z / Cp/Cv 45 MANUFACTURER 46 MANUFACTURER 47 MANUFACTURER 48 MANUFACTURER 48 MANUFACTURER 49 MANUFACTURER 49 MANUFACTURER 40 WIKAOR SILMILAR 40 WIKAOR SILMILAR		27	SEAL FILLING FLUID			MEDIC	AL WHITE MINE	I ERAL OIL (FDA-APPRO	OVED)
SOURCE CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED		28					316LSS (SEE 0	GENERAL NOTES 4)	
13 PULSATION DAMPER		29	CAPILLARY LENGTH				NOT	REQUIRED	
WOLLD OF THE PROCESS CONNECTION STRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 32 MATERIAL NOT REQUIRED NOT REQUIRED 33 MATERIAL NOT REQUIRED NOT REQUIRED 34 SIPHON TUBE NOT REQUIRED NOT REQUIRED 35 MATERIAL NOT REQUIRED NOT REQUIRED 36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 37 OVERPRESSURE PROTECTOR NOT REQUIRED 38 MATERIAL NOT REQUIRED NOT REQUIRED 40 TAGGING YES (SEE GENERAL NOTES 2) 40 TO THE PHYSICAL STATE NITROGEN GAS 38 MINIMUM TEMPERATURE NORMAL MAXIMUM NOT REQUIRED NOT REQUIRED 40 NOT REQUIRED NOT REQUIRED 50 C SEE GENERAL NOTES 2 51 C SEE GENERAL NOTES 2 52 C SEE GENERAL NOTES 2 53 DESIGN PRESSURE DESIGN TEMPERATURE NORMAL MAXIMUM DESIGN PRESSURE DESIGN TEMPERATURE NOT REQUIRED 54 O VISCOSITY @ OPERATING CONDITION REGION R		30	CAPILLARY MATERIAL				NOT	REQUIRED	
35 MATERIAL 36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 46 TAGGING 40 YES (SEE GENERAL NOTES 2) 40 VISCOSITY @ OPERATING CONDITION 40 VISCOSITY @ OPERATING CONDITION 40 VISCOSITY @ OPERATING CONDITION 41 DENSITY @ OPERATING CONDITION 42 SUSPENDED SOLIDS (%) 43 MATERIAL 44 M.M. / Z / Cp/Cv 49 MANUFACTURER NOT REQUIRED	w	31	PULSATION DAMPER				NOT	REQUIRED	
35 MATERIAL 36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 46 TAGGING 40 YES (SEE GENERAL NOTES 2) 40 VISCOSITY @ OPERATING CONDITION 40 VISCOSITY @ OPERATING CONDITION 40 VISCOSITY @ OPERATING CONDITION 41 DENSITY @ OPERATING CONDITION 42 SUSPENDED SOLIDS (%) 43 MATERIAL 44 M.M. / Z / Cp/Cv 49 MANUFACTURER NOT REQUIRED	RE	32	MATERIAL				NOT	REQUIRED	
35 MATERIAL 36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 46 TAGGING 40 YES (SEE GENERAL NOTES 2) 40 VISCOSITY @ OPERATING CONDITION 40 VISCOSITY @ OPERATING CONDITION 40 VISCOSITY @ OPERATING CONDITION 41 DENSITY @ OPERATING CONDITION 42 SUSPENDED SOLIDS (%) 43 MATERIAL 44 M.M. / Z / Cp/Cv 49 MANUFACTURER NOT REQUIRED	sso	33	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQ	UIRED	NOT REQU	JIRED
35 MATERIAL 36 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 46 TAGGING 40 YES (SEE GENERAL NOTES 2) 40 VISCOSITY @ OPERATING CONDITION 40 VISCOSITY @ OPERATING CONDITION 40 VISCOSITY @ OPERATING CONDITION 41 DENSITY @ OPERATING CONDITION 42 SUSPENDED SOLIDS (%) 43 MATERIAL 44 M.M. / Z / Cp/Cv 49 MANUFACTURER NOT REQUIRED)ÖE	34	SIPHON TUBE				NOT	REQUIRED	
37 OVERPRESSURE PROTECTOR 38 MATERIAL 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 46 TAGGING 40 YES (SEE GENERAL NOTES 2) 36 FLUID 37 MINIMUM TEMPERATURE NORMAL MAXIMUM 38 MINIMUM PRESSURE NORMAL MAXIMUM 39 DESIGN PRESSURE DESIGN TEMPERATURE 40 VISCOSITY @ OPERATING CONDITION 41 DENSITY @ OPERATING CONDITION 42 SUSPENDED SOLIDS (%) 43 SOLIDIFIES AT ROOM TEMPERATURE 44 M.M. / Z / Cp/Cv 45 MANUFACTURER NOT REQUIRED NOT	A	35	MATERIAL				NOT	REQUIRED	
38 MATERIAL 39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED 46 TAGGING 40 YES (SEE GENERAL NOTES 2) 36 FLUID PHYSICAL STATE NITROGEN GAS 37 MINIMUM TEMPERATURE NORMAL MAXIMUM , C 38 MINIMUM PRESSURE NORMAL MAXIMUM DESIGN PRESSURE DESIGN TEMPERATURE CONDITION 40 VISCOSITY @ OPERATING CONDITION 41 DENSITY @ OPERATING CONDITION 42 SUSPENDED SOLIDS (%) 43 SOLIDIFIES AT ROOM TEMPERATURE 44 M.M. / Z / Cp/Cv 49 MANUFACTURER NOT REQUIRED NO		36	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQ	UIRED	NOT REQU	JIRED
39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NOT REQUIRED 46 TAGGING YES (SEE GENERAL NOTES 2) 36 FLUID PHYSICAL STATE NITROGEN GAS 37 MINIMUM TEMPERATURE NORMAL MAXIMUM , C C 38 MINIMUM PRESSURE NORMAL MAXIMUM DESIGN PRESSURE DESIGN TEMPERATURE CONDITION CP 40 VISCOSITY @ OPERATING CONDITION Kg/m³ 42 SUSPENDED SOLIDS (%) NOT 43 SOLIDIFIES AT ROOM TEMPERATURE NOT 44 M.M. / Z / Cp/Cv 45 MANUFACTURER WIKA OR SILMILAR		37	OVERPRESSURE PROTECTOR	•			NOT	REQUIRED	
A6 TAGGING		38	MATERIAL				NOT	REQUIRED	
40 36 FLUID		39	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REG	UIRED	NOT REQU	JIRED
36 FLUID PHYSICAL STATE NITROGEN GAS		46	TAGGING				YES (SEE GE	ENERAL NOTES 2)	
SOUD		40							
44 M.M. / Z / Cp/Cv / 49 MANUFACTURER WIKA OR SILMILAR		36	FLUID	PHYSICAL STATE	=	NITRO	GEN	GAS	
44 M.M. / Z / Cp/Cv / 49 MANUFACTURER WIKA OR SILMILAR	SNS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,			°C
44 M.M. / Z / Cp/Cv / 49 MANUFACTURER WIKA OR SILMILAR	TIC	38	MINIMUM PRESSURE	NORMAL	MAXIMUM				bar-g
44 M.M. / Z / Cp/Cv / 49 MANUFACTURER WIKA OR SILMILAR	ONC.	39	DESIGN PRESSURE	DESIGN TEMPER	RATURE			°C	;
44 M.M. / Z / Cp/Cv / 49 MANUFACTURER WIKA OR SILMILAR	ပိုင်	40	VISCOSITY @ OPERATING CON	DITION				сР	
44 M.M. / Z / Cp/Cv / 49 MANUFACTURER WIKA OR SILMILAR	Ž.	41	DENSITY @ OPERATING CONDI	TION				kg/m³	
44 M.M. / Z / Cp/Cv / 49 MANUFACTURER WIKA OR SILMILAR	ERA	42	SUSPENDED SOLIDS (%)					NOT	
49 MANUFACTURER WIKA OR SILMILAR	OP	43	SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT	
		44	M.M. / Z / Cp/Cv					/ /	
50 MODEL		49	MANUFACTURER				WIKA C	OR SILMILAR	
		50	MODEL						

NOTES:









TITLE

SHEET: 53 de 61

REV.:

PRESSURE GAUGE SANITARY

<u> </u>								2	
	1	INSTRUMENT TAG NUMBER				PI-	-860008		
	2	SERVICE			FILTER (DOWNSTREAM	1 NITROGEN 7A-FGA	-8600-2	
	3	P&ID				7A-	Z-0-2-34		
Æ	4	PIPE LINE	EQUIPMENT NUM	MBER	7A-1"-GNP-8600	01-SS10-N	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	70 Gr. TP316L		
GE	6	AREA CLASSIFICATION				NOT C	CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CC	NF. NBR IEC 60529		
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
	9								
	10	TYPE OF MEASUREMENT				D	IRECT		
	11	MOUNTING				L	OCAL		
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACI	K	WHIT	E	
	14	PRECISION	•		1	% OF THE FIN	IAL VALUE "RANGE"		
_	15	MATERIAL CASE				304SS	POLISHED		
JEN.	16	RANGE	RESOLUTION		0 @ 10 b	ar-g	0,1		
RUN	17	RING TYPE	RING MATERIAL		BAYON	ET	3048	S	
NSTRUMENT	18	CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT	(M)	вотт	MC	
=	19	SENSOR TYPE	MATERIAL SENS	OR	BOURD	ON	3168	S	
	20	MATERIAL SOQUETE	MECHANISM MA	ΓERIAL	31688	3	3168	S	
	21	BALANCED POINTER					YES		
	22	MICROMETRIC ADJUSTMENT C	OF ZERO				YES		
	23	FRONT TYPE	WINDOWS		SOLIE)	GLASS SEG. TRA	NSP. MIN. 75%	
	24	FILLING	FLUID		YES		GLYCE	RIN	
	25	SEAL DIAPHRAGM	YES	IN AISI 316L (S	SEE GENERAL NOTE	S 4)			
	26	CONNECTION INSTRUMENT	BY MANUFAC	CTURER	1/2"-TRI-CLAMF	P-ASME BPE			
	27	SEAL FILLING FLUID			MEDICA	L WHITE MINE	RAL OIL (FDA-APPR	OVED)	
	28	WET PART MATERIAL			;	316LSS (SEE 0	GENERAL NOTES 4)		
	29	CAPILLARY LENGTH				NOT I	REQUIRED		
		CAPILLARY MATERIAL			NOT REQUIRED				
ES		PULSATION DAMPER					REQUIRED		
ORI		MATERIAL	1				REQUIRED		
ESS		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQU		NOT REQ	UIRED	
ACCESSORIES		SIPHON TUBE					REQUIRED		
`		MATERIAL	I				REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQU		NOT REQ	UIRED	
		OVERPRESSURE PROTECTOR					REQUIRED		
		MATERIAL CONNECTION INSTRUMENT	IDBOCESS CONN	ECTION	NOT DECL		REQUIRED	LIIDED	
		CONNECTION INSTRUMENT TAGGING	PROCESS CONN	ECTION	NOT REQU		NOT REQ ENERAL NOTES 2)	OIVED	
	_	IAGGING				IES (SEE GE	INERAL NUTES 2)		
	40	FLUID	PHYSICAL STATE		NITROG	EN I	GAS	2	
S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	INTROG	-IA	GAS	°C	
NO!		MINIMUM PRESSURE	NORMAL	MAXIMUM	,			bar-g	
		DESIGN PRESSURE	DESIGN TEMPER					C Dai-g	
OPERATING CONDITIONS		VISCOSITY @ OPERATING CON	l .				cP	-	
ING		DENSITY @ OPERATING COND					kg/m³		
RAT		SUSPENDED SOLIDS (%)	-				NOT		
)PE		SOLIDIFIES AT ROOM TEMPER	ATURE				NOT		
		M.M. / Z / Cp/Cv				/	/		
	-	MANUFACTURER					R SILMILAR		
		MODEL							
L		l							

NOTES:









TITLE

PRD-AIC-DSH-023

54 de 61

PRESSURE GAUGE SANITARY

REV.: **2**

19 SENSOR TYPE MATERIAL SENSOR BOURDON 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 21 BALANCED POINTER 22 MICROMETRIC ADJUSTMENT OF ZERO 23 FRONT TYPE WINDOWS SOLID GLASS SECONTECTION YES 24 FILLING FLUID YES (CONNECTION INSTRUMENT PROCESS CONNECTION - 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION - 27 SEAL FILLING FLUID - 28 WET PART MATERIAL 316LSS (SEE GENERAL NOT REQUIRED	- 60529 8) WHITE			
10 TYPE OF MEASUREMENT 114 mm 114 mm 12 13 14 15 14 14 15 15 14 14	- 60529 WHITE NGE" 0,02 304SS BOTTOM 316SS			
VARIABLE EQUIPMENT NUMBER 1"-IS4B-900101-CS1-HC ASTM A270 Gr. TP316L	WHITE NGE" 0,02 304SS BOTTOM 316SS			
PRODUCT PROCESS CONNECTION STATE AZ70 Gr. TP316L	WHITE NGE" 0,02 304SS BOTTOM 316SS			
RECOUPMENT MATERIAL / PIPE	WHITE NGE" 0,02 304SS BOTTOM 316SS			
T	WHITE NGE" 0,02 304SS BOTTOM 316SS			
T	WHITE NGE" 0,02 304SS BOTTOM 316SS			
8 CERTIFICATES (SEE GENERAL NOTES 6) 9 10 TYPE OF MEASUREMENT DIRECT 11 MOUNTING LOCAL 11 MOUNTING LOCAL 11 MOUNTING LOCAL 11 MOUNTING LOCAL 11 PRECISION BACKGROUND COLOR BLACK 11 PRECISION 1% OF THE FINAL VALUE "RA 15 MATERIAL CASE SOUNT 16 RANGE RESOLUTION 0 @ 10 bar-g 17 RING TYPE RING MATERIAL BAYONET 18 CONEX. PROCES. / ACESS. CONNECTION POSITION 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR BOURDON 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 21 BALANCED POINTER YES 22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEC 24 FILLING FLUID YES OCCUPANCE 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION - 27 SEAL FILLING FLUID - 28 WET PART MATERIAL 316LSS (SEE GENERAL NOT 30 CAPILLARY MATERIAL NOT REQUIRED 31 CAPILLARY MATERIAL NOT REQUIRED 31 CAPILLARY MATERIAL NOT REQUIRED 32 FILLING PROLUBED NOT REQUIRED 33 CAPILLARY MATERIAL NOT REQUIRED 34 FILLING PROLUBED NOT REQUIRED 35 FRONT TROUBLED NOT REQUIRED 36 CAPILLARY MATERIAL NOT REQUIRED 36 CAPILLARY MATERIAL NOT REQUIRED 37 FRONT TROUBLED NOT REQUIRED 38 CAPILLARY MATERIAL NOT REQUIRED 39 CAPILLARY MATERIAL NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED 31 FILLING PAINT AND PAINT PROLITION PAINT PROLITION PAINT PROLITION PAINT PAINT PAINT PAINT PAINT PAINT PAINT PAINT PROLITION PAINT PA	WHITE NGE" 0,02 304SS BOTTOM 316SS			
9 10 TYPE OF MEASUREMENT DIRECT 11 MOUNTING LOCAL LOCAL 12 DIAL DIAMETER 114 mm 13 SCALE COLOR BACKGROUND COLOR BLACK 14 PRECISION 1 6 FINAL VALUE "RA 15 MATERIAL CASE 304SS POLISHED 16 RANGE RESOLUTION 0 @ 10 bar-g 17 RING TYPE RING MATERIAL BAYONET 12" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR BOURDON 10 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 21 BALANCED POINTER YES 22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEC CONNECTION CO	WHITE NGE" 0,02 304SS BOTTOM 316SS			
10 TYPE OF MEASUREMENT DIRECT	0,02 304SS BOTTOM 316SS			
11 MOUNTING	0,02 304SS BOTTOM 316SS			
12 DIAL DIAMETER	0,02 304SS BOTTOM 316SS			
13 SCALE COLOR BACKGROUND COLOR BLACK 14 PRECISION 15 MATERIAL CASE 304SS POLISHED 15 MATERIAL CASE 304SS POLISHED 16 RANGE RESOLUTION 0 @ 10 bar-g 8 AVONET 17 RING TYPE RING MATERIAL BAYONET 18 CONEX. PROCES. / ACESS. CONNECTION POSITION 1/2" NPT (M) 19 SENSOR TYPE MATERIAL SENSOR BOURDON 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 21 BALANCED POINTER YES WICKOMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEC 24 FILLING FLUID YES OCCUPANCION CONNECTION INSTRUMENT PROCESS CONNECTION - 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION - 27 SEAL FILLING FLUID - 28 WET PART MATERIAL 316LSS (SEE GENERAL NOT REQUIRED 30 CAPILLARY LENGTH NOT REQUIRED	0,02 304SS BOTTOM 316SS			
14 PRECISION	0,02 304SS BOTTOM 316SS			
15 MATERIAL CASE 304SS POLISHED	0,02 304SS BOTTOM 316SS			
16	304SS BOTTOM 316SS			
19 SENSOR TYPE MATERIAL SENSOR BOURDON 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 21 BALANCED POINTER 22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEC 24 FILLING FLUID YES (CONNECTION INSTRUMENT PROCESS CONNECTION - SEAL FILLING FLUID - CONNECTION INSTRUMENT PROCESS CONNECTION - SEAL FILLING FLUID - CONNECTION -	304SS BOTTOM 316SS			
19 SENSOR TYPE MATERIAL SENSOR BOURDON 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 21 BALANCED POINTER 22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEC 24 FILLING FLUID YES (CONNECTION INSTRUMENT PROCESS CONNECTION - SEAL FILLING FLUID - CONNECTION INSTRUMENT PROCESS CONNECTION - SEAL FILLING FLUID - CONNECTION -	BOTTOM 316SS			
19 SENSOR TYPE MATERIAL SENSOR BOURDON 20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 21 BALANCED POINTER 22 MICROMETRIC ADJUSTMENT OF ZERO YES 23 FRONT TYPE WINDOWS SOLID GLASS SEC 24 FILLING FLUID YES (CONNECTION INSTRUMENT PROCESS CONNECTION - SEAL FILLING FLUID - A STANDARD SOLID - A STANDARD SO	316SS			
20 MATERIAL SOQUETE MECHANISM MATERIAL 316SS 21 BALANCED POINTER 22 MICROMETRIC ADJUSTMENT OF ZERO 23 FRONT TYPE WINDOWS SOLID GLASS SECURITY OF SEAL DIAPHRAGM 25 SEAL DIAPHRAGM 26 CONNECTION INSTRUMENT PROCESS CONNECTION 27 SEAL FILLING FLUID 28 WET PART MATERIAL 316LSS (SEE GENERAL NOT PROCESS CONTROLL OF THE PROCESS CONTROLL OF T				
21 BALANCED POINTER 22 MICROMETRIC ADJUSTMENT OF ZERO 23 FRONT TYPE WINDOWS SOLID GLASS SEC 24 FILLING FLUID YES 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION - 27 SEAL FILLING FLUID - 28 WET PART MATERIAL 316LSS (SEE GENERAL NOT PROCESS CONTECTION) 29 CAPILLARY LENGTH NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED				
22 MICROMETRIC ADJUSTMENT OF ZERO 23 FRONT TYPE WINDOWS SOLID GLASS SEC 24 FILLING FLUID YES CONNECTION NO 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION - 27 SEAL FILLING FLUID - 28 WET PART MATERIAL 316LSS (SEE GENERAL NOT PROCESS CONNECTION NOT REQUIRED				
23 FRONT TYPE WINDOWS SOLID GLASS SEC 24 FILLING FLUID YES (CONNECTION INSTRUMENT PROCESS CONNECTION - 25 SEAL DIAPHRAGM NO 26 CONNECTION INSTRUMENT PROCESS CONNECTION - 27 SEAL FILLING FLUID - 28 WET PART MATERIAL 316LSS (SEE GENERAL NOT PROCESS CONNECTION INSTRUMENT PROCESS CONNECTION - 29 CAPILLARY LENGTH NOT REQUIRED NOT REQUIRED NOT REQUIRED				
24 FILLING FLUID YES (CONNECTION INSTRUMENT PROCESS CONNECTION - SEAL FILLING FLUID - SEAL FLUID - SEAL FILLING FLUID - SEAL FLUID - SEAL FLUID - SEAL FLUID	B. TRANSP. MIN. 75%			
25 SEAL DIAPHRAGM 26 CONNECTION INSTRUMENT PROCESS CONNECTION 27 SEAL FILLING FLUID 28 WET PART MATERIAL 316LSS (SEE GENERAL NOT 29 CAPILLARY LENGTH 30 CAPILLARY MATERIAL 31 PLUI SATION DAMPER	GLYCERIN			
26 CONNECTION INSTRUMENT PROCESS CONNECTION 27 SEAL FILLING FLUID 28 WET PART MATERIAL 316LSS (SEE GENERAL NOT 29 CAPILLARY LENGTH NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED 31 PLUI SATION DAMPER	22.102.1.11			
27 SEAL FILLING FLUID 28 WET PART MATERIAL 29 CAPILLARY LENGTH 30 CAPILLARY MATERIAL NOT REQUIRED 21 PULL SATION DAMPER				
28 WET PART MATERIAL 29 CAPILLARY LENGTH 30 CAPILLARY MATERIAL 316LSS (SEE GENERAL NOT NOT REQUIRED NOT REQUIRED				
29 CAPILLARY LENGTH NOT REQUIRED 30 CAPILLARY MATERIAL NOT REQUIRED NOT REQUIRED	ES 4)			
30 CAPILLARY MATERIAL NOT REQUIRED	,			
21 DILI SATION DAMPER				
32 MATERIAL NOT REQUIRED 33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NO				
33 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NO				
	T REQUIRED			
Ö 34 SIPHON TUBE YES				
304SS POLISHED				
36 CONNECTION INSTRUMENT PROCESS CONNECTION 1/2" NPT (F) 1.	/2" NPT (M)			
37 OVERPRESSURE PROTECTOR NOT REQUIRED				
38 MATERIAL NOT REQUIRED				
39 CONNECTION INSTRUMENT PROCESS CONNECTION NOT REQUIRED NO	T REQUIRED			
46 TAGGING YES (SEE GENERAL NOTE	S 2)			
40				
36 FLUID PHYSICAL STATE AIR	GAS			
2 37 MINIMUM TEMPERATURE NORMAL MAXIMUM	°C			
37 MINIMUM TEMPERATURE NORMAL MAXIMUM - - - 38 MINIMUM PRESSURE NORMAL MAXIMUM - - 4 39 DESIGN PRESSURE DESIGN TEMPERATURE 40 VISCOSITY @ OPERATING CONDITION - cP 41 DENSITY @ OPERATING CONDITION - kg/m³ 42 SUSPENDED SOLIDS (%) - 43 SOLIDIFIES AT ROOM TEMPERATURE NOT	bar-g			
39 DESIGN PRESSURE DESIGN TEMPERATURE				
40 VISCOSITY @ OPERATING CONDITION - cP	°C			
41 DENSITY @ OPERATING CONDITION - kg/m³	°C			
42 SUSPENDED SOLIDS (%)	°C			
43 SOLIDIFIES AT ROOM TEMPERATURE NOT	°C			
44 M.M. / Z / Cp/Cv /	°C			
49 MANUFACTURER WIKA OR SILMILAR	°C			
50 MODEL	°C			

NOTES:









TITLE

SHEET:

PRESSURE GAUGE SANITARY

55 de 61 REV.:

'	LO	SURE GAUGE SANTA	-4.1					2	
	1	INSTRUMENT TAG NUMBER				Pl	-900104		
	2	SERVICE				LOOP RETUR	N CHILLED WATER		
	3	P&ID			7A-Z-0-2-06				
		PIPE LINE	EQUIPMENT NUM	IBER	1"-IS4B-90020		Ι .		
GENERAL		EQUIPMENT MATERIAL / PIPE					I 270 Gr. TP316L		
띪		AREA CLASSIFICATION					CLASSIFIED		
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	<u> </u>	
	8	CERTIFICATES					ERAL NOTES 6)	,	
	9	OLIVIII IOATEO				(OLL OLIV	EIVAE NOTEO 0)		
\vdash	_	TYPE OF MEASUREMENT				Г	DIRECT		
							LOCAL		
		MOUNTING DIAL DIAMETER					14 mm		
		SCALE COLOR	BACKGROUND C		BLAC		l wh	ITE	
	_		BACKGROUND C	OLOR			 NAL VALUE "RANGE		
								:	
Ιż		MATERIAL CASE	DECOLUTION		0.0.40		S POLISHED	20	
NSTRUMENT		RANGE	RESOLUTION RING MATERIAL		0 @ 10 k		0,0		
TR		RING TYPE	BAYON		304				
SN		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT		BOT		
		SENSOR TYPE	MATERIAL SENSO		BOURD		316		
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	S	316	ISS	
		BALANCED POINTER			YES				
		MICROMETRIC ADJUSTMENT O			YES				
		FRONT TYPE	WINDOWS		SOLI		GLASS SEG. TR		
	-	FILLING	FLUID		YES		GLYC	ERIN	
		SEAL DIAPHRAGM			NO				
	26	CONNECTION INSTRUMENT	-		-	•			
	27	SEAL FILLING FLUID					-		
	28	WET PART MATERIAL				316LSS (SEE	GENERAL NOTES 4)	
	29	CAPILLARY LENGTH			NOT REQUIRED				
	30	CAPILLARY MATERIAL			NOT REQUIRED				
Sil		PULSATION DAMPER			NOT REQUIRED				
ACCESSORIES	32	MATERIAL				NOT	REQUIRED		
SSE	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQI	JIRED	NOT RE	QUIRED	
CCE	34	SIPHON TUBE				NOT	REQUIRED		
ϭ	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQI	JIRED	NOT RE	QUIRED	
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQI	JIRED	NOT RE	QUIRED	
	46	TAGGING				YES (SEE G	ENERAL NOTES 2)		
	40								
	36	FLUID	PHYSICAL STATE		AIR		G.A	AS	
SNS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
ΙĖ	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
OPERATING CONDITIONS	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE				°C	
ပို့	40	VISCOSITY @ OPERATING CON	DITION		-	- cP			
Ž E	41	DENSITY @ OPERATING CONDI	TION		-		kg/m³		
ERA	42	SUSPENDED SOLIDS (%)					-		
OP	43	SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
	44	M.M. / Z / Cp/Cv					<i>I I</i>		
	49	MANUFACTURER				WIKA (OR SILMILAR		
	50	MODEL							
NOT		•							

NOTES:









TITLE

SHEET:

56 de 61 REV.:

PRESSURE GAUGE SANITARY

'		CORE CASCE CANTA						2	
	1	INSTRUMENT TAG NUMBER				PI	-900106		
H	2	SERVICE				LOOP SUPPL	Y CHILLED WATER		
H	3	P&ID				7A	-Z-0-2-06		
	4	PIPE LINE	EQUIPMENT NUM	1BER	2"-GW0S-9001	05-CS1-CC	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	1 270 Gr. TP316L		
등	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529		
H	8	CERTIFICATES					ERAL NOTES 6)		
	9	02.11.110/1120				(022 02.1			
Н	_	TYPE OF MEASUREMENT				Г	DIRECT		
H		MOUNTING					LOCAL		
H		DIAL DIAMETER					14 mm		
H		SCALE COLOR	BLAC		WHIT				
H	_	PRECISION			 AL VALUE "RANGE"				
H		MATERIAL CASE					S POLISHED		
뉟		RANGE	RESOLUTION		0 @ 10 I		0,02		
] ME		RING TYPE	RING MATERIAL		BAYON		304S		
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	NOITION			BOTTO		
<u>S</u>	_	SENSOR TYPE	MATERIAL SENS		1/2" NP	` '			
H					BOURE		3168		
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	3	316S	S	
		BALANCED POINTER	YES YES						
		MICROMETRIC ADJUSTMENT O			2011	D		NCD MIN 750/	
		FRONT TYPE	WINDOWS		SOLI		GLASS SEG. TRA		
Н	-	FILLING	FLUID		YES)	GLYCE	KIN	
H		SEAL DIAPHRAGM			NO				
H					-		-		
						0401.00 (055.4	-		
		WET PART MATERIAL					GENERAL NOTES 4)		
		CAPILLARY LENGTH			NOT REQUIRED NOT REQUIRED				
		CAPILLARY MATERIAL			NOT REQUIRED NOT REQUIRED				
ES	_	PULSATION DAMPER			NOT REQUIRED NOT REQUIRED				
l R		MATERIAL	l						
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REQ	UIRED	
မူ		SIPHON TUBE					REQUIRED		
		MATERIAL	1				REQUIRED		
H			PROCESS CONN	ECTION	NOT REQ		NOT REQ	UIRED	
H		OVERPRESSURE PROTECTOR					REQUIRED		
		MATERIAL	1				REQUIRED		
H			PROCESS CONN	ECTION	NOT REQ		NOT REQ	UIRED	
		TAGGING				YES (SEE GI	ENERAL NOTES 2)		
\vdash	40	ELLID.	DUNGIOA: OT:	<u> </u>				<u> </u>	
[,		FLUID	PHYSICAL STATE	1	AIR		GAS		
ğ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
Š		DESIGN PRESSURE	DESIGN TEMPER	ATURE				С	
[2]		VISCOSITY @ OPERATING CON			-		cP		
ATI		DENSITY @ OPERATING CONDI	HON		-		kg/m³		
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)	TUDE				-		
0		SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
$\vdash \vdash$		M.M. / Z / Cp/Cv			+		/ /		
	-	MANUFACTURER				WIKA C	OR SILMILAR		
Ш	50	MODEL							

NOTES:









CLIENT NR: PRD-AIC-DSH-023 NUMBER: 569-DB7A-AIC-712-004

TITLE

57 de 61

PRESSURE GAUGE SANITARY

PR	ES	SURE GAUGE SANIT	ARY					REV.:	
	1	INSTRUMENT TAG NUMBER			1	DI	-900109	2	
		SERVICE					AN STEAM		
		P&ID							
	_		I COLUDNIENT NUM	IDED	2 1/2"-SFI-6501		-Z-0-2-06 I		
GENERAL		PIPE LINE	EQUIPMENT NUM	IBER	2 1/2 -3F1-0501				
Ë		EQUIPMENT MATERIAL / PIPE					270 Gr. TP316L		
O		AREA CLASSIFICATION					CLASSIFIED		
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529		
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
	9								
	_	TYPE OF MEASUREMENT					DIRECT		
		MOUNTING					LOCAL		
		DIAL DIAMETER	I				14 mm		
		SCALE COLOR	BACKGROUND C	OLOR	BLAC		WH		
		PRECISION					NAL VALUE "RANGE		
₽		MATERIAL CASE					POLISHED		
ME		RANGE	RESOLUTION		0 @ 10	par-g	0,0		
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON	IET	304	SS	
INS	18	CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NP	Г (М)	ВОТ	ГОМ	
	19	SENSOR TYPE	MATERIAL SENSO	OR	BOURE	OON	316	SS	
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	S	316	SS	
	21	BALANCED POINTER			YES				
	22	MICROMETRIC ADJUSTMENT C			YES				
	23	FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRA	ANSP. MIN. 75%	
	24	FILLING	FLUID		YES	;	GLYC	ERIN	
	25	SEAL DIAPHRAGM					NO		
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			-		-		
	27	SEAL FILLING FLUID					-		
	28	WET PART MATERIAL			316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH				NOT REQUIRED			
	30	CAPILLARY MATERIAL				NOT REQUIRED			
S)	31	PULSATION DAMPER				NOT REQUIRED			
E I	32	MATERIAL			NOT REQUIRED				
ACCESSORIES	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ	NOT REQUIRED NOT REQUIRED			
CE	34	SIPHON TUBE				NOT	REQUIRED		
Ä	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ	UIRED	NOT REC	QUIRED	
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ	UIRED	NOT REC	QUIRED	
	46	TAGGING	•			YES (SEE GI	ENERAL NOTES 2)		
	40								
	36	FLUID	PHYSICAL STATE		STEA	M	VAP	OR	
SN	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
Ę.	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
ΩN	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE				°C	
200	40	VISCOSITY @ OPERATING CON	, NDITION		-		cР		
ING		DENSITY @ OPERATING COND			-		kg/m³		
PA		SUSPENDED SOLIDS (%)					-		
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPER.	ATURE				NOT		
-		M.M. / Z / Cp/Cv					/ /		
		MANUFACTURER				WIKA C	OR SILMILAR		
		MODEL							
NOT		l							

NOTES:









TITLE

SHEET:

58 de 61 REV.:

2

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER				PI	-900202		
	2	SERVICE			STE	EAM SUPPLY	MEDIUM PRESSURE	Ξ	
	3	P&ID				7A-	-Z-0-2-05		
₹	4	PIPE LINE	EQUIPMENT NUM	IBER	1"-IS4B-900101-	CS1-HC	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE	•			ASTM A2	70 Gr. TP316L		
Ġ.	6	AREA CLASSIFICATION				NOT C	CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IF	65 (MÍN.) CO	ONF. NBR IEC 60529		
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
	9								
	10	TYPE OF MEASUREMENT				С	DIRECT		
	11	MOUNTING				L	OCAL		
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND CO	OLOR	BLACK		WHI	ГЕ	
	14	PRECISION			19	6 OF THE FIN	I IAL VALUE "RANGE"		
 .	15	MATERIAL CASE				304SS	POLISHED		
ĒNT	16	RANGE	RESOLUTION		0 @ 10 ba	r-g	0,02	<u> </u>	
Z∏	17	RING TYPE	RING MATERIAL		BAYONE	Т	3045	S	
NSTRUMENT	18	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M)	вотт	OM	
=	19	SENSOR TYPE	MATERIAL SENSO	DR .	BOURDO	N	3165	SS	
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316SS		3165	SS	
	21	BALANCED POINTER	•				YES		
	22	MICROMETRIC ADJUSTMENT O	F ZERO				YES		
	23	FRONT TYPE	WINDOWS		SOLID		GLASS SEG. TRA	NSP. MIN. 75%	
	24	FILLING	FLUID		YES		GLYCE	RIN	
	25	SEAL DIAPHRAGM			NO				
	26	CONNECTION INSTRUMENT	-		-				
	27	SEAL FILLING FLUID					_		
	28	WET PART MATERIAL			3.	16LSS (SEE 0	GENERAL NOTES 4)		
	29	CAPILLARY LENGTH			NOT REQUIRED				
	30	CAPILLARY MATERIAL				NOT REQUIRED			
S	31	PULSATION DAMPER				NOT	REQUIRED		
JRE	32	MATERIAL				NOT	REQUIRED		
-SS(33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQUI	RED	NOT REQ	UIRED	
ACCESSORIES	34	SIPHON TUBE					YES		
۲		MATERIAL				30488	POLISHED		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2" NPT (F)	1/2" NP	T (M)	
		OVERPRESSURE PROTECTOR				NOT	REQUIRED		
		MATERIAL	•				REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQUI		NOT REQ	UIRED	
	_	TAGGING				YES (SEE GE	ENERAL NOTES 2)		
	40		T			-			
[FLUID	PHYSICAL STATE	1	AIR		GAS		
ONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
ΪΞ		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	4	bar-g	
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPERA	ATURE				С	
16.0		VISCOSITY @ OPERATING CON			-		cP		
ATI		DENSITY @ OPERATING CONDI	ITION		-		kg/m³		
PER.		SUSPENDED SOLIDS (%)	A T. I.D.E.				-		
Ιō		SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
1	1 44	M.M. / Z / Cp/Cv			1	/	' /		
	-				•		D 011 1011 1 -		
_	49	MANUFACTURER MODEL				WIKA C	R SILMILAR		

NOTES:









TITLE

SHEET:

59 de 61

PRESSURE GAUGE SANITARY

REV.: **2**

								2	
	1	INSTRUMENT TAG NUMBER				PI	-900204	•	
	2	SERVICE				LOOP RETUR	N CHILLED WATER		
	3	P&ID				7A	-Z-0-2-06		
	4	PIPE LINE	EQUIPMENT NUM	//BER	2"-GW0R-9002	04-CS1-CC	-		
ER/		EQUIPMENT MATERIAL / PIPE				ASTM A2	I 270 Gr. TP316L		
GENERAL		AREA CLASSIFICATION					CLASSIFIED		
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529		
	8	CERTIFICATES					ERAL NOTES 6)		
	9					(022 02.1			
		TYPE OF MEASUREMENT				Г	DIRECT		
	_	MOUNTING					LOCAL		
		DIAL DIAMETER					14 mm		
		SCALE COLOR	BACKGROUND C	OI OP	BLAC		WHI	ITE	
		PRECISION	BACKGROOND	OLOIC			 AL VALUE "RANGE		
		MATERIAL CASE					POLISHED		
F			RESOLUTION		0 @ 10 1			2	
NSTRUMENT		RANGE	RING MATERIAL		0 @ 10 k		0,0		
TRL		RING TYPE		COLLION	BAYON		304		
S N		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NP1		BOTT		
		SENSOR TYPE	MATERIAL SENS		BOURD		316		
		MATERIAL SOQUETE	MECHANISM MA	IERIAL	316S	5	316	55	
		BALANCED POINTER	YES						
		MICROMETRIC ADJUSTMENT O				_	YES		
	-	FRONT TYPE	WINDOWS		SOLI		GLASS SEG. TRA		
	_	FILLING	FLUID		YES	i	GLYC	ERIN	
		SEAL DIAPHRAGM			NO				
		CONNECTION INSTRUMENT PROCESS CONNECTION			-		-		
							-		
		WET PART MATERIAL				•	GENERAL NOTES 4)		
		CAPILLARY LENGTH			NOT REQUIRED				
		CAPILLARY MATERIAL			NOT REQUIRED				
ES		PULSATION DAMPER			NOT REQUIRED				
ACCESSORIES		MATERIAL					REQUIRED		
ESS		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ	UIRED	NOT REC	QUIRED	
CCI		SIPHON TUBE					REQUIRED		
`	35	MATERIAL				NOT	REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REC	QUIRED	
		OVERPRESSURE PROTECTOR					REQUIRED		
		MATERIAL	1				REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REC	QUIRED	
	-	TAGGING				YES (SEE GE	ENERAL NOTES 2)		
	40								
_		FLUID	PHYSICAL STATE		AIR		GA		
SNC		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
)TIC		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	_	-	bar-g	
NO.		DESIGN PRESSURE	DESIGN TEMPER	RATURE				°C	
16 C		VISCOSITY @ OPERATING CON			-		сР		
ATIN		DENSITY @ OPERATING CONDI	ITION		-		kg/m³		
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)					-		
ا م	43	SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
	-	M.M. / Z / Cp/Cv					' /		
		MANUFACTURER				WIKA C	OR SILMILAR		
	E0	MODEL							

NOTES:









TITLE

SHEET: 60 de 61

REV.:

PRESSURE GAUGE SANITARY

FK	ES	SURE GAUGE SANII	AIXI					2	
	1	INSTRUMENT TAG NUMBER				PI	-900206		
	2	SERVICE				LOOP SUPPL	Y CHILLED WATER		
	3	P&ID				7A-	-Z-0-2-05		
ا	4	PIPE LINE	EQUIPMENT NUI	MBER	2"-GW0S-90020	5-CS1-CC			
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	I 270 Gr. TP316L		
SEN		AREA CLASSIFICATION					CLASSIFIED		
0		ENCLOSURE CLASSIFICATION	J		l II		ONF. NBR IEC 60529		
	8	CERTIFICATES	<u> </u>		"	` '	ERAL NOTES 6)	<u> </u>	
	9	OEI (TII 10/(TEO				(OLL OLIV	2.0.2.110.120.0)		
	_	TYPE OF MEASUREMENT				Г	DIRECT		
		1 MOUNTING					LOCAL		
		DIAL DIAMETER					14 mm		
			BACKGROLIND	COLOR	BLACK		wh	ITE	
		SCALE COLOR BACKGROUND COLOR					 AL VALUE "RANGE		
		PRECISION MATERIAL CASE			1				
۲			DECOLUTION		0 @ 40 h		S POLISHED	2	
JME		RANGE	RESOLUTION		0 @ 10 ba	-	0,0		
TRL		RING TYPE	RING MATERIAL	COLTION	BAYONE		304		
INS		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT		BOT		
	_	SENSOR TYPE	MATERIAL SENS		BOURDO		316		
		MATERIAL SOQUETE	MECHANISM MA	TERIAL	316SS		316	SS	
CCESSORIES INSTRUMENT					YES				
		MICROMETRIC ADJUSTMENT					YES		
	_	FRONT TYPE	WINDOWS		SOLID	1	GLASS SEG. TR		
		FILLING	FLUID		YES		GLYC	ERIN	
	_						NO		
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			-		-		
	27	SEAL FILLING FLUID					-		
	28	WET PART MATERIAL			3	16LSS (SEE (GENERAL NOTES 4		
	29	CAPILLARY LENGTH				NOT REQUIRED			
	30	CAPILLARY MATERIAL			NOT REQUIRED				
S	31	PULSATION DAMPER			NOT REQUIRED				
ORIE	32	MATERIAL	_			NOT	REQUIRED		
SS	33	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQU	IRED	NOT RE	QUIRED	
CCE	34	SIPHON TUBE				NOT	REQUIRED		
∢	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQU	IRED	NOT RE	QUIRED	
	37	OVERPRESSURE PROTECTOR	₹			NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQU	IRED	NOT RE	QUIRED	
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)		
	40								
	36	FLUID	PHYSICAL STAT	E	AIR		G <i>A</i>	NS.	
SNC	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
JITIC	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	4	bar-g	
JNC	39	DESIGN PRESSURE	DESIGN TEMPER	RATURE				°C	
OPERATING CONDITIONS	40	VISCOSITY @ OPERATING CO	NDITION		-		cР		
NI.	41	DENSITY @ OPERATING COND	DITION		-		kg/m³		
ERA	42	SUSPENDED SOLIDS (%)					-		
OP	43	SOLIDIFIES AT ROOM TEMPER	RATURE				NOT		
	44	M.M. / Z / Cp/Cv					/ /		
	49	MANUFACTURER				WIKA C	R SILMILAR		

NOTES:









TITLE

SHEET:

61 de 61 REV.:

PRESSURE GAUGE SANITARY

L								2	
	1	INSTRUMENT TAG NUMBER				PI	-900209		
	2	SERVICE				CLE	AN STEAM		
	3	P&ID				7A	-Z-0-2-05		
4	4	PIPE LINE	EQUIPMENT NUM	MBER	2 1/2"-SFI-6501	19-SS10-HC	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L		
8	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
H	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529		
	8	CERTIFICATES					ERAL NOTES 6)		
	9					`	,		
Н	10	TYPE OF MEASUREMENT					DIRECT		
	11	MOUNTING				ı	_OCAL		
	12	DIAL DIAMETER				1	14 mm		
		SCALE COLOR	BLAC		l whit	E			
		PRECISION	BACKGROUND C				I NAL VALUE "RANGE"		
		MATERIAL CASE					POLISHED		
ΙŻΙ		RANGE	RESOLUTION		0 @ 10		0,02		
INSTRUMENT		RING TYPE	RING MATERIAL		BAYO		304S		
IX.		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP		ВОТТО		
ľž		SENSOR TYPE	MATERIAL SENS		BOURI		316S		
	_	MATERIAL SOQUETE	MECHANISM MAT		3165		316S		
		BALANCED POINTER					YES		
					YES				
		FRONT TYPE	WINDOWS		SOL	D.	GLASS SEG. TRAI	NSP MIN 75%	
	_	FILLING	FLUID		YES		GLYCE		
\vdash	-	SEAL DIAPHRAGM	LOID		120	,	NO SETOL	TKIIN .	
	_	CONNECTION INSTRUMENT	_						
		l l			_				
						316LSS (SEE)	GENERAL NOTES 4)		
	_	CAPILLARY LENGTH				NOT REQUIRED			
		CAPILLARY MATERIAL			NOT REQUIRED				
		PULSATION DAMPER			NOT REQUIRED				
ACCESSORIES		MATERIAL					REQUIRED		
SOR!		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REQ	LIIRED	
ES		SIPHON TUBE	I KOOLSS COM	LOTION	NOTICE		REQUIRED	OIILD	
ACC		MATERIAL					REQUIRED		
			PROCESS CONN	ECTION	NOT BEO			IIIDED	
		OVERPRESSURE PROTECTOR	I KOOLSS COM	LOTION	NOT REQ		NOT REQI REQUIRED	OIILD	
		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REQ	IIIDEN	
		TAGGING	I NOCESS CONIV	LOTION	NOTICE		ENERAL NOTES 2)	OINED	
	40	17.001140				LO (OEE GI	LIVEL NOTES 2)		
H	-	FLUID	PHYSICAL STATE	<u> </u>	STEA	M	VAPC)R	
<u>s</u>		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		_	-	°C	
N		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		4	bar-g	
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	l .	-	I		C Dai-y	
Ö		VISCOSITY @ OPERATING CON			_		cP		
NG NG	_	DENSITY @ OPERATING CONDI			-		kg/m³		
\¥T		SUSPENDED SOLIDS (%)			1		-		
PEF		SOLIDIFIES AT ROOM TEMPERA	ATURE				NOT		
0		M.M. / Z / Cp/Cv	TORL						
\vdash		MANUFACTURER			+		/ / DR SILMILAR		
	-	MODEL				WINA	Z. OILIVIILAIN		
	อบ	INIODEL							

NOTES: