





CLIENT NUMBER:



DOC NUMBER:

569-DB7B-AIC-712-004

PRD-AIC-DSH-046

CLIENT:

TAKEDA/BAXALTA

PROJECT:

BURITI EPCVM PROJECT

DRUG SUBSTANCE - PCS - DATA SHEET PRESSURE GAUGE SANITARY

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	RSP
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









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PRESSURE GAUGE SANITARY

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

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PRESSURE GAUGE SANITARY

	REFERENCE DOCUMENTS
7B-Z-0-2-07	P&I DIAGRAM - DRUG SUBSTANCE - SEED PREP
7B-Z-0-2-12	P&I DIAGRAM - DRUG SUBSTANCE - 2500L BIOREACTOR N°1, BRE-5601 - VESSEL
7B-Z-0-2-14	P&I DIAGRAM - DRUG SUBSTANCE - 2500L BIOREACTOR N°2, BRE-5602 - VESSEL
7B-Z-0-2-31	P&I DIAGRAM - DRUG SUBSTANCE - ANION EXCHANGE CHROM CRM-3601
7B-Z-0-2-32	P&I DIAGRAM - DRUG SUBSTANCE - COLUMN PACKING SKID - X-3410
7B-Z-0-2-33	P&I DIAGRAM - DRUG SUBSTANCE - 500L BUFFER PREP - TANK N°1, TQ-3701
7B-Z-0-2-34	P&I DIAGRAM - DRUG SUBSTANCE - 3000L BUFFER PREP - TANK Nº2, TQ-3702
7B-Z-0-2-35	P&I DIAGRAM - DRUG SUBSTANCE - 3000L BUFFER PREP - TANK N°3, TQ-3703
7B-Z-0-2-52	P&I DIAGRAM - DRUG SUBSTANCE - CIP CLEANING CHEMICAL - STORAGE (TOTES) AND DIST.
7B-Z-0-2-55	P&I DIAGRAM - DRUG SUBSTANCE - PORTABLE VESSEL CIP/SIP - STATION. STA-4701
7B-Z-0-2-64	P&I DIAGRAM - DRUG SUBSTANCE - CLEAN STEAM GENERATOR - DISTRIBUTION
7B-Z-0-2-70	P&I DIAGRAM - DRUG SUBSTANCE - PROCESS GAS (CO2&O2) - ITORAGE & DISTRIBUTION
7B-Z-0-2-71	P&I DIAGRAM - DRUG SUBSTANCE - CLEAN COMPRESSED AIR - DISTRIBUTION
7B-Z-0-2-81	P&I DIAGRAM - DRUG SUBSTANCE - AEX COLUMN PACKING
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.
- 3- 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

1 - ACCORDING NEW ARQUITECTURE UPDATED

REVISION 2 - NOTES

1 - ADDED INSTRUMENTS: PI-700041 / PI-430001 / PI-900109 / PI-230005 / PI-230006 / PI-230001 / PI-700006 / PI-700007 / PI-700008 / PI-700033









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REV.:

PRESSURE GAUGE SANITARY

							2			
	1	INSTRUMENT TAG NUMBER				PI-230001				
	2	SERVICE			BIOREACTOR, E	RE-5401 - O2 GAS TO 4	0L			
	3	P&ID			-	'B-Z-0-2-70				
∀	4	PIPE LINE	EQUIPMENT NUM	MBER	3/4"-GOP-240001-SS10-NI	-				
ER.	5	EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L					
GENERAL	6	AREA CLASSIFICATION			NOT CLASSIFIED					
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
	_	CERTIFICATES			(SEE GENERAL NOTES 6)					
	9				(022 021/21/021/03200)					
	<u> </u>	TYPE OF MEASUREMENT				DIRECT				
	11	MOUNTING			LOCAL					
	12	DIAL DIAMETER				114 mm				
		SCALE COLOR	BACKGROUND C	OLOR	BLACK	WHITE	=			
		PRECISION				I FINAL VALUE "RANGE"				
		MATERIAL CASE				SS POLISHED				
Ä		RANGE	RESOLUTION		0 @ 6.0 bar-g 0,1					
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET	304SS	 }			
STR	_	CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT (M)	вотто				
ΙĔΙ		SENSOR TYPE	MATERIAL SENS		BOURDON	316SS				
	_	MATERIAL SOQUETE	MECHANISM MA		316SS	31688				
		BALANCED POINTER	INICOTIVATION WIPA	LINIAL	01000	YES	,			
		MICROMETRIC ADJUSTMENT O	F ZERO		YES					
		FRONT TYPE	windows		SOLID	GLASS SEG. TRANSP. MIN. 75%				
		FILLING	FLUID		YES	GLYCEF				
	_	SEAL DIAPHRAGM	1. 2015			(SEE GENERAL NOTES				
		CONNECTION INSTRUMENT	PROCESS CONN	FCTION	BY MANUFACTURER	11/2"-TRI-CLAMP				
		SEAL FILLING FLUID				NERAL OIL (FDA-APPRO				
		WET PART MATERIAL				E GENERAL NOTES 4)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		CAPILLARY LENGTH			,	T REQUIRED				
		CAPILLARY MATERIAL				T REQUIRED				
		PULSATION DAMPER			NOT REQUIRED					
ACCESSORIES	32	MATERIAL			NOT REQUIRED					
SOF		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED					
CES		SIPHON TUBE			NC	I T T REQUIRED				
AC		MATERIAL				T REQUIRED				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQU	JIRED			
		OVERPRESSURE PROTECTOR				I T T REQUIRED				
	38	MATERIAL			NC	T REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQU	JIRED			
	46	TAGGING	1		YES (SEE	GENERAL NOTES 2)				
	40				,	<u>-</u>				
	_	FLUID	PHYSICAL STATU	JS	OXIGEN	GAS				
SZ	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C			
10	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	- 3	-	bar-g			
N N	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE	-	°C	;			
100	40	VISCOSITY @ OPERATING CON	IDITION			- cP				
ING	41	DENSITY @ OPERATING CONDI	TION			- kg/m³				
OPERATING CONDITIONS	42	SUSPENDED SOLIDS (%)			-					
OPE	43	SOLIDIFIES AT ROOM TEMPERA	ATURE		-					
	44 M.M. / Z / Cp/Cv				/					
	49	MANUFACTURER			WIKA					
	50	MODEL								
-										









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PRESSURE GAUGE SANITARY

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							2			
	1	INSTRUMENT TAG NUMBER				PI-230005				
	2	SERVICE			BIOREACTOR, B	RE-5401 - O2 GAS TO 40L				
	3	P&ID			7	B-Z-0-2-70				
	4	PIPE LINE	EQUIPMENT NUM	MBER	3/4"-GOP-240001-SS10-NI	-				
ER	5	EQUIPMENT MATERIAL / PIPE			ASTM	I A270 Gr. TP316L				
GENERAL		AREA CLASSIFICATION			NOT CLASSIFIED					
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
		CERTIFICATES			(SEE GENERAL NOTES 6)					
	9	OLIVII IO/VIEG			(022 02					
	_	TYPE OF MEASUREMENT				DIRECT				
		MOUNTING			LOCAL					
		DIAL DIAMETER				114 mm				
		SCALE COLOR	BACKGROUND C	OL OP	BLACK	WHITE				
		PRECISION	BACKGROUNDC	OLOK		INAL VALUE "RANGE"				
		MATERIAL CASE				SS POLISHED				
F		RANGE	BESOLUTION							
NSTRUMENT			RESOLUTION		0 @ 6.0 bar-g BAYONET	0,1 304SS				
TRL		RING TYPE	RING MATERIAL	COLLION	-					
NS I		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT (M)	BOTTOM				
	_	SENSOR TYPE	MATERIAL SENS		BOURDON	316SS				
		MATERIAL SOQUETE	MECHANISM MA	IERIAL	316SS	316SS				
		BALANCED POINTER	F 7500		YES					
		MICROMETRIC ADJUSTMENT O	WINDOWS		00110	YES				
		FRONT TYPE FILLING	-		SOLID YES	GLASS SEG. TRANSP. MIN. 75% GLYCERIN				
			FLUID							
		SEAL DIAPHRAGM	DDOCESS CONN	ECTION		(SEE GENERAL NOTES 4	,			
	_	CONNECTION INSTRUMENT SEAL FILLING FLUID	PROCESS CONN	ECTION	BY MANUFACTURER	11/2"-TRI-CLAMP-A				
		WET PART MATERIAL				NERAL OIL (FDA-APPROV EGENERAL NOTES 4)	ED)			
		CAPILLARY LENGTH			,	T REQUIRED				
		CAPILLARY MATERIAL				T REQUIRED				
		PULSATION DAMPER			NOT REQUIRED					
IES		MATERIAL MATERIAL			NOT REQUIRED					
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED					
SES		SIPHON TUBE	I NOCESS CONIV	LOTION		T REQUIRED				
ACC		MATERIAL				T REQUIRED				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRE	PED			
		OVERPRESSURE PROTECTOR	I. 1.00200 001414			T REQUIRED				
		MATERIAL				T REQUIRED				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIF	RED			
	46	TAGGING	1			GENERAL NOTES 2)	=			
	40				. 25 (522)					
\vdash		FLUID	PHYSICAL STATU	 JS	OXIGEN	GAS				
2		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C			
101		MINIMUM PRESSURE	NORMAL	MAXIMUM	- 3	_	bar-g			
N		DESIGN PRESSURE	DESIGN TEMPER		-	°C	3			
8		VISCOSITY @ OPERATING CON				- cP				
ING		DENSITY @ OPERATING CONDI				- kg/m³				
RAT		SUSPENDED SOLIDS (%)	<u> </u>			-				
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE		-					
		M.M. / Z / Cp/Cv			11					
		MANUFACTURER			WIKA					
		MODEL								
\Box		l			Į					









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PRESSURE GAUGE SANITARY

PK	E5	SURE GAUGE SANITA	ARY					REV.: 2		
	1	INSTRUMENT TAG NUMBER				PI	-230006			
	2	SERVICE			BIO		E-5401 - O2 GAS TO	401		
	3	P&ID			1 2.0	· · · · · · · · · · · · · · · · · · ·	-Z-0-2-70			
ایا		PIPE LINE	EQUIPMENT NUM	MBER	3/4"-GOP-2400					
ERA		EQUIPMENT MATERIAL / PIPE	Lagon MENT NON		0/1 00/ 2100		l 270 Gr. TP316L			
GENERAL		AREA CLASSIFICATION			NOT CLASSIFIED					
٥		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
		CERTIFICATES								
	_	CERTIFICATES				(SEE GEN	ERAL NOTES 6)			
\vdash	9	TYPE OF MEASUREMENT					DIRECT			
		MOUNTING					OCAL			
		DIAL DIAMETER	IDA CKCDOLINID C	OL OD	DI AC		14 mm			
		SCALE COLOR	BACKGROUND C	OLUR	BLAC		WHI			
		PRECISION					NAL VALUE "RANGE"	•		
늘		MATERIAL CASE	Inconstitution				POLISHED			
ME		RANGE	RESOLUTION RING MATERIAL		0 @ 6.0		0,1			
INSTRUMENT		RING TYPE		BAYON		304				
SN		CONEX. PROCES. / ACESS.	CONNECTION PC		1/2" NP	` ′	BOTT			
	_	SENSOR TYPE	MATERIAL SENSO		BOURD		316			
	20 MATERIAL SOQUETE MECHANISM MATERIAL				316S	S	316	SS		
		BALANCED POINTER	YES							
		MICROMETRIC ADJUSTMENT O					YES			
		FRONT TYPE	WINDOWS		SOLI		GLASS SEG. TRA			
	_	FILLING	FLUID		YES		GLYC			
		SEAL DIAPHRAGM				`	SEE GENERAL NOTE			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFA		11/2"-TRI-CLAN			
	27	SEAL FILLING FLUID			MEDICA	AL WHITE MINE	ERAL OIL (FDA-APPI	ROVED)		
	28	WET PART MATERIAL		316LSS (SEE 0	GENERAL NOTES 4)					
	29	CAPILLARY LENGTH				NOT	REQUIRED			
		CAPILLARY MATERIAL			NOT REQUIRED					
ES		PULSATION DAMPER			NOT REQUIRED					
OR!		MATERIAL			NOT REQUIRED					
ESS		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ	UIRED	NOT REC	QUIRED		
ACCESSORIES		SIPHON TUBE					REQUIRED			
^	35	MATERIAL				NOT	REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED					
	37	OVERPRESSURE PROTECTOR			NOT REQUIRED					
	38	MATERIAL					REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REC	QUIRED		
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)			
Ш	40		1							
		FLUID	PHYSICAL STATU		OXIGI	EN	GA			
SNC		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C		
Ĕ		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g		
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-			°C		
) SI		VISCOSITY @ OPERATING CON					cP			
AT!		DENSITY @ OPERATING COND	ITION			-	kg/m³			
ž ER/			SUSPENDED SOLIDS (%)				-			
占	43	SOLIDIFIES AT ROOM TEMPERA	-							
	44	M.M. / Z / Cp/Cv			/					
		MANUFACTURER			WIKA					
	E0	MODEL								









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REV.:

PRESSURE GAUGE SANITARY

								2		
	1	INSTRUMENT TAG NUMBER				PI	-230021			
	2	SERVICE				CARBON DIOXIDE GAS				
	3	P&ID				7B	-Z-0-2-07			
₹	4	PIPE LINE	EQUIPMENT NUM	MBER	7B-1/2"-GCO2-23	30009-SS10-NI	-			
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A270 Gr. TP316L				
GEN	6	AREA CLASSIFICATION			NOT CLASSIFIED					
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
	8	CERTIFICATES			(SEE GENERAL NOTES 6)					
	9				1	•	,			
\Box	-	TYPE OF MEASUREMENT			DIRECT					
	11	MOUNTING				l	OCAL			
	12	DIAL DIAMETER				1	14 mm			
		SCALE COLOR	BACKGROUND C	OLOR	BLAC		WHIT	TE		
		PRECISION					I NAL VALUE "RANGE"			
		MATERIAL CASE					POLISHED			
Ä		RANGE	RESOLUTION		0 @ 6.0		0,1			
OME	-	RING TYPE	RING MATERIAL		BAYO	-	3048	S		
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NP		BOTT			
ΙΞ̈́		SENSOR TYPE	MATERIAL SENS		BOURI		3168			
		MATERIAL SOQUETE	MECHANISM MA		3168		3168			
	-	BALANCED POINTER			0.00		YES			
		MICROMETRIC ADJUSTMENT O	F ZFRO		YES					
		FRONT TYPE	windows		SOL	ID	GLASS SEG. TRANSP. MIN. 75%			
		FILLING	FLUID		YES		GLYCE			
		SEAL DIAPHRAGM	. 20.5		+		SEE GENERAL NOTE			
		CONNECTION INSTRUMENT	PROCESS CONN	FCTION	BY MANUFA	•	11/2"-TRI-CLAM	•		
		SEAL FILLING FLUID	1 1100200 001111	2011011			ERAL OIL (FDA-APPR			
		WET PART MATERIAL	23.5		GENERAL NOTES 4)					
	_	CAPILLARY LENGTH		•	REQUIRED					
		CAPILLARY MATERIAL					REQUIRED			
1		PULSATION DAMPER			NOT REQUIRED					
SIES		MATERIAL			NOT REQUIRED					
SOF		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED					
ACCESSORIES		SIPHON TUBE					I REQUIRED	· ·		
AC		MATERIAL					REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REG		NOT REQ	UIRED		
		OVERPRESSURE PROTECTOR	1		1		REQUIRED			
		MATERIAL			1		REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REQ	UIRED		
		TAGGING	1		1		ENERAL NOTES 2)			
	40				1		,			
		FLUID	PHYSICAL STATI	JS	CARBON D	DIOXIDE	GAS	3		
छ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	l -	-	°C		
		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	_	bar-g		
N N		DESIGN PRESSURE	DESIGN TEMPER		† .			C		
8		VISCOSITY @ OPERATING CON	l .			-	сР			
.ING		DENSITY @ OPERATING CONDI					kg/m³			
RAT		SUSPENDED SOLIDS (%)			- kg/m²					
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	-							
$\lceil \ \rceil$		M.M. / Z / Cp/Cv	11							
		MANUFACTURER	WIKA							
		MODEL								
\Box	-00	· 								









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SHEET:

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PRESSURE GAUGE SANITARY

					2					
	1	INSTRUMENT TAG NUMBER				PI	-240001			
	2	SERVICE			OXIC	SEN GAS AMO	UNT FILTRO FGA-24	00-2		
	3	P&ID				7B-	-Z-0-2-70			
A	4	PIPE LINE	EQUIPMENT NUM	1BER	7B-1/2"-GO2-240	002-SS10-NI	-			
GENERAL	5	EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L					
GEN	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			114 mm					
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACK WHITE					
	14	PRECISION	I			1% OF THE FIN	I IAL VALUE "RANGE"	1		
	15	MATERIAL CASE				304SS	POLISHED			
ENT	16	RANGE	RESOLUTION		0 @ 6.0 1	bar-g	0,1			
N.	17	RING TYPE	RING MATERIAL		BAYON	IET	304SS			
INSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NPT (M) / COOI	LING ELEMENT	ВОТТ	OM		
≧		SENSOR TYPE	MATERIAL SENSO		BOURD					
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S		316SS 316SS			
	21	BALANCED POINTER			YES					
		MICROMETRIC ADJUSTMENT O	F ZERO		YES					
		FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRA	NSP. MIN. 75%		
	24	FILLING	FLUID		YES		GLYCE	ERIN		
	25	SEAL DIAPHRAGM	l		YES	IN AISI 316L (S	SEE GENERAL NOTE	ES 4)		
	26	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	BY MANUFA	CTURER	11/2"-TRI-CLAM	IP-ASME BPE		
	27	SEAL FILLING FLUID	MEDICA	AL WHITE MINE	i Eral oil (Fda-appf	ROVED)				
	28	WET PART MATERIAL		316LSS (SEE 0	GENERAL NOTES 4)	<u> </u>				
	29	CAPILLARY LENGTH		NOT	REQUIRED					
	30	CAPILLARY MATERIAL			NOT REQUIRED					
<i>(</i> 0	31	PULSATION DAMPER			NOT REQUIRED					
RIE	32	MATERIAL				NOT	REQUIRED			
ACCESSORIES	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQ	UIRED	NOT REC	QUIRED		
CE	34	SIPHON TUBE	I			YES USE CO	OOLING ELEMENT			
AC	35	MATERIAL				3	16L SS			
	36	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	1/2" NPT (F) BY MANUFACTURER					
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED			
	38	MATERIAL				NOT	REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQ	UIRED	NOT REC	QUIRED		
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)			
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	NNECTION	YES		1/2" NF	PT (F)		
	36	FLUID	PHYSICAL STATU	JS	OXIGEN	GAS	GA	S		
NS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C		
TIO	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g		
OPERATING CONDITIONS	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE	-	•		°C		
300	40	VISCOSITY @ OPERATING CON	IDITION			-	cP			
JII	41	DENSITY @ OPERATING CONDI	ITION			-	kg/m³			
ERA.	42	SUSPENDED SOLIDS (%)					-			
OPE	43	SOLIDIFIES AT ROOM TEMPERA	SOLIDIFIES AT ROOM TEMPERATURE				-			
	44	M.M. / Z / Cp/Cv	1							
	49	MANUFACTURER	WIKA							
	50	MODEL								
NOT					•					



PRESSURE GAUGE SANITARY







NUMBER: 569-DB7B-AIC-712-004 CLIENT NR: PRD-AIC-DSH-046

TITLE

SHEET:

9 de 55 REV.:

		SORE GAUGE SANTA	4					2			
	1	INSTRUMENT TAG NUMBER				PI	-240005				
		SERVICE			OXIGEN		TREAM FILTRO FGA	L-2400-1			
		P&ID			07.102.		-Z-0-2-70				
	-	PIPE LINE	EQUIPMENT NUM	MDED	7B-1/2"-GO2-240		- <u>-</u>				
GENERAL			EQUIFINENT NON	IDEN	76-1/2 -002-240		70 C* TD246				
ENE	_	EQUIPMENT MATERIAL / PIPE				ASTM A270 Gr. TP316L					
ß		AREA CLASSIFICATION				NOT CLASSIFIED					
	7	ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529				
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)				
	9										
	10	TYPE OF MEASUREMENT					DIRECT				
	11	MOUNTING				L	LOCAL				
	12	DIAL DIAMETER				1	14 mm				
	13	SCALE COLOR	BACKGROUND C	OLOR	BLAC	K	WHI	TE			
	14	PRECISION				1% OF THE FIN	NAL VALUE "RANGE"				
_	15	MATERIAL CASE				30488	POLISHED				
EN	16	RANGE	RESOLUTION		0 @ 6.0	bar-g	0,1				
3UN	17	RING TYPE		BAYON	IET	3049	SS				
NSTRUMENT	18	CONEX. PROCES. / ACESS.	SITION	1/2" NPT (M) / COO	LING ELEMENT	вотт	OM				
=	19	SENSOR TYPE	OR	BOURD	ON	3168	SS				
	20	MATERIAL SOQUETE	ΓERIAL	316S	S	3168	SS				
	21	BALANCED POINTER		YES							
	22	MICROMETRIC ADJUSTMENT O	F ZERO				YES				
	23	FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRA	NSP. MIN. 75%			
	24	FILLING	FLUID		YES	}	GLYCI	ERIN			
	25	SEAL DIAPHRAGM			YES	IN AISI 316L (S	SEE GENERAL NOTE	ES 4)			
	26	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFA		11/2"-TRI-CLAM				
	27	SEAL FILLING FLUID			MEDICA	AL WHITE MINE	i Eral oil (Fda-appf	ROVED)			
	28	WET PART MATERIAL		316LSS (SEE 0	GENERAL NOTES 4)	<u> </u>					
	29	CAPILLARY LENGTH		NOT	REQUIRED						
		CAPILLARY MATERIAL			REQUIRED						
	31	PULSATION DAMPER			NOT REQUIRED						
ACCESSORIES		MATERIAL			NOT REQUIRED						
SOF		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REC	DUIRED			
CES		SIPHON TUBE					OOLING ELEMENT				
AC		MATERIAL					16L SS				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	1/2" NP			ACTURER			
		OVERPRESSURE PROTECTOR	1		1/2" NPT (F) BY MANUFACTURE NOT REQUIRED						
	-	MATERIAL					REQUIRED				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ		NOT REC	UIRED			
		TAGGING	1. 1.00200 00111		NOTINEQ		ENERAL NOTES 2)				
		ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL COL	NNECTION	YES		1/2" NF	PT (F)			
\vdash	_	FLUID	PHYSICAL STATU		OXIGEN		GA				
S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	- OXIGEN			°C			
NOI		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g			
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER		-		-	°C			
g			l .	ATORE	-		cP	<u> </u>			
NG		VISCOSITY @ OPERATING COND									
₹		DENSITY @ OPERATING CONDI	HON				kg/m³				
PER		SUSPENDED SOLIDS (%)	-								
Ō		SOLIDIFIES AT ROOM TEMPERA									
\vdash		M.M. / Z / Cp/Cv			//						
		MANUFACTURER			WIKA						
L		MODEL									









TITLE

10 de 55

REV.:

PRESSURE GAUGE SANITARY

								2	
	1	INSTRUMENT TAG NUMBER				PI	-240006		
	2	SERVICE			OXIGEN	N GAS DOWNS	TREAM FILTRO FGA-	2400-2	
	3	P&ID				7B-	-Z-0-2-70		
l _∃ l	4	PIPE LINE	EQUIPMENT NUM	MBER	7B-1/2"-GO2-240	0008-SS10-NI	-		
ER.	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	1. 270 Gr. TP316L		
GENERAL	6	AREA CLASSIFICATION			NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
		CERTIFICATES					ERAL NOTES 6)		
	9	02.11.11.107.11.20				(022 02.1			
	_	TYPE OF MEASUREMENT			DIRECT				
		MOUNTING					LOCAL		
		DIAL DIAMETER					14 mm		
		SCALE COLOR	BACKGROUND C	OLOP.	BLAC		WHIT	_	
		PRECISION	BACKGROUNDC	OLOK			VALUE "RANGE"	_	
۱		MATERIAL CASE	DECOLUTION		0.000		S POLISHED		
NSTRUMENT	- 1	RANGE	RESOLUTION		0 @ 6.0	-	0,1	•	
IRI		RING TYPE	RING MATERIAL		BAYON		304S		
INS.	-	CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT (M) / COO		BOTTO		
		SENSOR TYPE	MATERIAL SENS		BOURE		316S		
	-	MATERIAL SOQUETE	MECHANISM MAT	ΓERIAL	316S	S	316S	S	
		BALANCED POINTER			YES				
		MICROMETRIC ADJUSTMENT O					YES		
		FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRANSP. 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	ECTION	BY MANUFA	CTURER	11/2"-TRI-CLAMF	P-ASME BPE	
	27	SEAL FILLING FLUID			MEDICA	AL WHITE MINE	ERAL OIL (FDA-APPR	OVED)	
	28	WET PART MATERIAL		316LSS (SEE	GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT	REQUIRED				
	30	CAPILLARY MATERIAL			NOT REQUIRED				
ပ္ပ	31	PULSATION DAMPER			NOT REQUIRED				
J Sign	32	MATERIAL			NOT REQUIRED				
SSC	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED				
ACCESSORIES	34	SIPHON TUBE				YES USE CO	OOLING ELEMENT		
Ā	35	MATERIAL			316L SS				
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	1/2" NP	T (F)	BY MANUFA	CTURER	
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ	UIRED	NOT REQ	JIRED	
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)		
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL COI	NNECTION	YES	8	1/2" NP1	Γ (F)	
	36	FLUID	PHYSICAL STATU	JS	OXIGEN	GAS	GAS		
SN	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
1 1 1	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g	
OPERATING CONDITIONS	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE	-		°(0	
100	40	VISCOSITY @ OPERATING CON	IDITION			-	cP		
IN	41	DENSITY @ OPERATING CONDI	TION			-	kg/m³		
, A	42	SUSPENDED SOLIDS (%)					-		
OPE	43	SOLIDIFIES AT ROOM TEMPERA	-						
	44	M.M. / Z / Cp/Cv	11						
		MANUFACTURER	WIKA						
		MODEL							
\square					1				









TITLE

| SHEET: | 11 de 55

PRESSURE GAUGE SANITARY

REV.:

								2		
	1	INSTRUMENT TAG NUMBER				Pi	-341101	•		
İ	2	SERVICE				TQ-3411 -	SLURRY TANK			
İ	3	P&ID				7B	-Z-0-2-32			
ا ہے	4	PIPE LINE	EQUIPMENT NUM	IBER	-		TQ-3	3411		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				3	16L SS			
	6	AREA CLASSIFICATION			NOT CLASSIFIED					
Ĭ	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) C	ONF. NBR IEC 60529	9		
- 1	8	CERTIFICATES			(SEE GENERAL NOTES 6)					
ŀ	9	02.11.1107.1120				(522 52.				
\dashv		TYPE OF MEASUREMENT				Г	DIRECT			
ŀ	_	MOUNTING					LOCAL			
ŀ		DIAL DIAMETER					14 mm			
ŀ		SCALE COLOR	BACKGROUND C		BLA		l wh	ITE		
ŀ		PRECISION	BACKGROUND	OLOK	BLA		L VALUE "RANGE			
ŀ										
╞┞		MATERIAL CASE	Incontinu				S POLISHED			
NSTRUMENT		RANGE	RESOLUTION		0 @ 6.0	-	0,			
〗		RING TYPE	RING MATERIAL		BAYC		304			
S	_	CONEX. PROCES. / ACESS.	CONNECTION PC		1/2" NF	. ,	BOT			
		SENSOR TYPE	MATERIAL SENSO MECHANISM MAT	-	BOUR		316			
		MATERIAL SOQUETE	316	SS	316	iss				
	21	BALANCED POINTER	YES							
	22	MICROMETRIC ADJUSTMENT C			YES					
	23	FRONT TYPE	· · · · · · · · · · · · · · · · · · ·				GLASS SEG. TR	ANSP. MIN. 75%		
	24	FILLING	FLUID		YE	S	GLYC	ERIN		
	25	SEAL DIAPHRAGM			YE	S IN AISI 316L (SEE GENERAL NOT	ES 4)		
	26	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	BY MANUF.	ACTURER	11/2"-TRI-CLAI	MP-ASME BPE		
	27	SEAL FILLING FLUID	MEDIC	AL WHITE MIN	ERAL OIL (FDA-APP	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				
	32	MATERIAL			NOT REQUIRED					
ACCESSORIES	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED NOT REQUIRED					
Ö	34	SIPHON TUBE	•		NOT REQUIRED					
۲	35	MATERIAL			NOT REQUIRED					
İ	36	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED NOT REQUIRED					
İ	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED			
İ	38	MATERIAL				NOT	REQUIRED			
Ì	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REC	QUIRED	NOT RE	QUIRED		
Ì	46	TAGGING				YES (SEE G	ENERAL NOTES 2)			
ı	40					·				
┪		FLUID	PHYSICAL STATU	JS	SLUF	RRY	LIQ	UID		
္နှ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C		
OPERATING CONDITIONS	-	MINIMUM PRESSURE	NORMAL	MAXIMUM	_	-	-	bar-g		
夏		DESIGN PRESSURE	DESIGN TEMPER			-		°C		
8		VISCOSITY @ OPERATING CON					CP			
S		DENSITY @ OPERATING COND					kg/m³			
¥∣		SUSPENDED SOLIDS (%)					-			
		SOLIDIFIES AT ROOM TEMPERA	ΔTURE							
١		M.M. / Z / Cp/Cv	THE STATE OF THE S		-					
\dashv		MANUFACTURER	/ / WIKA							
- }					VV ITA					
	50	MODEL								









TITLE

SHEET: 12 de 55

REV.:

2

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER	PI-370205						
	2	SERVICE			CLEAN	COMPRESSED	AIR SUPPLY FROM	I TQ-3702	
	3	P&ID				7B	-Z-0-2-34		
Æ	4	PIPE LINE	EQUIPMENT NUM	BER	7B-1/2"-CAP-370	0208-SS10-NI		-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L				
GE	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			114 mm				
	13	SCALE COLOR	BACKGROUND CO	OLOR	BLAC	CK	WH	HITE	
	14	PRECISION				1% OF THE FIN	NAL VALUE "RANGE	="	
1.	15	MATERIAL CASE				30488	POLISHED		
ENT	16	RANGE	RESOLUTION		0 @ 6.0	bar-g	0,	,1	
NO.	17	RING TYPE	RING MATERIAL		BAYON	NET	304	4SS	
NSTRUMENT	18	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP	Т (М)	ВОТ	ТОМ	
=	19	SENSOR TYPE	MATERIAL SENSO	DR .	BOUR	OON	316	SSS .	
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	3168	S	316	SSS	
	21	BALANCED POINTER	•				YES		
	22	MICROMETRIC ADJUSTMENT O	F ZERO		YES				
	23	FRONT TYPE	WINDOWS		SOL	D	GLASS SEG. TRANSP. MIN. 75%		
	24	FILLING	FLUID		YES	3	GLYC	CERIN	
	25	SEAL DIAPHRAGM			YES	IN AISI 316L (SEE GENERAL NOT	ES 4)	
	26	CONNECTION INSTRUMENT					11/2"-TRI-CLA	MP-ASME BPE	
	27	SEAL FILLING FLUID			MEDIC	AL WHITE MINI	ERAL OIL (FDA-APF	PROVED)	
	28	WET PART MATERIAL		316LSS (SEE	GENERAL NOTES 4	·)			
	29	CAPILLARY LENGTH		NOT	REQUIRED				
	30	CAPILLARY MATERIAL				NOT	REQUIRED		
တ္ယ	31	PULSATION DAMPER			NOT REQUIRED				
ACCESSORIES	32	MATERIAL			NOT REQUIRED				
SSC	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQUIRED NOT REQUIRED				
CCE	34	SIPHON TUBE				NOT	REQUIRED		
<	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ	UIRED	NOT RE	QUIRED	
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED		
		MATERIAL	,				REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ			QUIRED	
	46	TAGGING				YES (SEE GI	ENERAL NOTES 2)		
	40		1						
		FLUID	PHYSICAL STATU		CLEAN	AIR	A	IR I	
ONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
TIO		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
NO.		DESIGN PRESSURE	DESIGN TEMPER	AIUKE	-	•		°C	
16.0		VISCOSITY @ OPERATING CON					cP		
ATI		DENSITY @ OPERATING CONDI	ITION			-	kg/m³		
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)	ATUDE				-		
Ō		SOLIDIFIES AT ROOM TEMPERATURE			-				
\vdash	-	M.M. / Z / Cp/Cv	11						
		MANUFACTURER					WIKA		
	50	MODEL			1				









TITLE

SHEET: 13 de 55

PRESSURE GAUGE SANITARY

REV.:

								2	
	1	INSTRUMENT TAG NUMBER				Pi	-370305	•	
	2	SERVICE			CLEAN	COMPRESSED	AIR SUPPLY FRON	I TQ-3703	
	3	P&ID				7B	-Z-0-2-35		
ᅱ	4	PIPE LINE	EQUIPMENT NUM	1BER	7B-1/2"-CAP-37	0308-SS10-NI		-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A	1 270 Gr. TP316L		
GE	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) C	ONF. NBR IEC 60529	9	
	8	CERTIFICATES				. ,	ERAL NOTES 6)		
	9					(
	_	TYPE OF MEASUREMENT					DIRECT		
	11	MOUNTING					_OCAL		
		DIAL DIAMETER					14 mm		
		SCALE COLOR	BACKGROUND C	OI OR	BLA			IITE	
		PRECISION	Brokerteenb e	OLOIT			I NAL VALUE "RANGE		
		MATERIAL CASE						=	
F		RANGE	RESOLUTION		304SS POLISHED			1	
NSTRUMENT		RING TYPE	RING MATERIAL		0 @ 6.0 bar-g 0,1 BAYONET 304St				
TRI									
SZ		CONEX. PROCES. / ACESS.	1/2" NF	. ,		TOM			
		SENSOR TYPE	BOUR			SSS			
		MATERIAL SOQUETE	316	55		SSS			
		BALANCED POINTER MICROMETRIC ADJUSTMENT OF ZERO			YES				
			USTMENT OF ZERO WINDOWS		SOLID		YES GLASS SEG. TRANSP. MIN. 759		
		FRONT TYPE							
	_	FILLING		YE		<u> </u>	ERIN		
		SEAL DIAPHRAGM		•	SEE GENERAL NOT				
		CONNECTION INSTRUMENT	BY MANUF			MP-ASME BPE			
		SEAL FILLING FLUID			MEDIC		ERAL OIL (FDA-APP	<u> </u>	
		WET PART MATERIAL				· · · · · · · · · · · · · · · · · · ·	GENERAL NOTES 4)	
		CAPILLARY LENGTH					REQUIRED		
		CAPILLARY MATERIAL					REQUIRED		
S		PULSATION DAMPER				NOT	REQUIRED		
ORI		MATERIAL	1			NOT REQUIRED NOT REQUIRED NOT REQUIRED			
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REC			QUIRED	
SS	34	SIPHON TUBE				NOT	REQUIRED		
٩	35	MATERIAL			NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED			QUIRED	
		OVERPRESSURE PROTECTOR					REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REC			QUIRED	
	46	TAGGING				YES (SEE G	ENERAL NOTES 2)		
	40								
	36	FLUID	PHYSICAL STATU	JS .	CLEAN	N AIR	A	IR •	
SNC	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
OPERATING CONDITIONS	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
No No	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE		-		°C	
ٽ ڻ	40	VISCOSITY @ OPERATING COM	NDITION			-	cР		
Z	41	DENSITY @ OPERATING COND	ITION			-	kg/m³		
ERA	42	SUSPENDED SOLIDS (%)					-		
OP	43	SOLIDIFIES AT ROOM TEMPER	ATURE				-		
	44	44 M.M. / Z / Cp/Cv			11				
	49	49 MANUFACTURER			WIKA				
	50	MODEL							
					-				









NUMBER: CLIENT NR: PRD-AIC-DSH-046 569-DB7B-AIC-712-004

TITLE

14 de 55

REV.:

PRESSURE GAUGE SANITARY

<u> </u>								2		
	1	INSTRUMENT TAG NUMBER				PI	-430002			
	2	SERVICE			CLEAN (COMPRESSED	AIR SUPPLY FRON T	Q-3703		
	3	P&ID				7B	-Z-0-2-52			
	4	PIPE LINE	EQUIPMENT NUM	BER	3/4"-CHE-4300	05-SS5-NI	-			
ER/	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	I 270 Gr. TP316L			
GENERAL		AREA CLASSIFICATION					CLASSIFIED			
$I^{}I$		ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES					ERAL NOTES 6)			
	9	OLIVIII IOATEO				(OLL OLIV	LIVIL NOTES 0)			
\vdash		TYPE OF MEASUREMENT				Г	DIRECT			
	-	MOUNTING			LOCAL					
		DIAL DIAMETER								
		SCALE COLOR	BYCKCBOTIND CO		BLAC		14 mm WHIT	-		
			BACKGROUND CO	JLUK						
		PRECISION					NAL VALUE "RANGE"			
F		MATERIAL CASE	Incon Lition		0.0.401		S POLISHED			
NSTRUMENT		RANGE	RESOLUTION		0 @ 10 8		0,1			
TRU		RING TYPE	RING MATERIAL		BAYON		304S			
.S NS.		CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NP		ВОТТО			
		SENSOR TYPE	DR	BOURD		316S				
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	S	316S	S		
		BALANCED POINTER				YES				
		MICROMETRIC ADJUSTMENT O			YES					
	23	FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRAI	NSP. MIN. 75%		
Ш	24	FILLING	YES	3	GLYCE	RIN				
	25	SEAL DIAPHRAGM			YES	IN AISI 316L (S	SEE GENERAL NOTES	5 4)		
	26	CONNECTION INSTRUMENT					3/4"	1		
	27	SEAL FILLING FLUID			MEDICA	AL WHITE MINE	ERAL OIL (FDA-APPR	OVED)		
	28	WET PART MATERIAL		316LSS (SEE	GENERAL NOTES 4)					
	29	CAPILLARY LENGTH				NOT	REQUIRED			
	30	CAPILLARY MATERIAL			NOT REQUIRED					
ပ္သ	31	PULSATION DAMPER				NOT	REQUIRED			
뿚	32	MATERIAL				NOT	REQUIRED			
SS	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ	UIRED	NOT REQ	UIRED		
ACCESSORIES	34	SIPHON TUBE				NOT	REQUIRED			
₹	35	MATERIAL			NOT REQUIRED					
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQUIRED NOT REQUIRED					
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED			
	38	MATERIAL				NOT	REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ	UIRED	NOT REQ	UIRED		
	46	TAGGING				YES (SEE GI	ENERAL NOTES 2)			
Ш	40									
	36	FLUID	PHYSICAL STATU	S	CLEAN	AIR	AIR			
SNS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C		
) JE	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g		
OPERATING CONDITIONS	39	DESIGN PRESSURE	DESIGN TEMPERA	ATURE	-		٥	С		
ပိပ္ပ	40	VISCOSITY @ OPERATING CON			-	сР				
Ž	41	DENSITY @ OPERATING CONDI		-	kg/m³					
ER4	42	SUSPENDED SOLIDS (%)			-					
OPI	43	SOLIDIFIES AT ROOM TEMPERA	-							
	44	M.M. / Z / Cp/Cv	11							
	49	MANUFACTURER	WIKA							
	50	MODEL								
NOT					•					

NOTES:

1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.









TITLE

15 de 55

2

REV.:

PRESSURE GAUGE SANITARY

								_	
	1	INSTRUMENT TAG NUMBER				PI	-430001		
	2	SERVICE			1	CLEAN COMPF	RESSED AIR SUPPL	.Y	
	3	P&ID				7B	-Z-0-2-52		
	4	PIPE LINE	EQUIPMENT NUM	BER	3/4"-CA-7100	11-SS5-NI		-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE	l		ASTM A270 Gr. TP316L				
JEN	_	AREA CLASSIFICATION			NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 6052	9	
	8	CERTIFICATES					ERAL NOTES 6)	-	
	9	02.11.11071120				(022 02			
	_	TYPE OF MEASUREMENT					DIRECT		
		MOUNTING					OCAL		
		DIAL DIAMETER					14 mm		
		SCALE COLOR	BACKGROUND CO	OLOR	BLACK WHITE				
		PRECISION		-			I NAL VALUE "RANGE		
		MATERIAL CASE					POLISHED		
Ϋ́		RANGE	RESOLUTION		0 @ 10		0.	.1	
OME		RING TYPE	RING MATERIAL		BAYON			4SS	
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP			ТОМ	
Ξ̈́		SENSOR TYPE	MATERIAL SENSO		BOURE			SSS	
		MATERIAL SOQUETE	MECHANISM MAT		3168			SSS	
		BALANCED POINTER					YES		
		MICROMETRIC ADJUSTMENT O	F ZERO		YES				
		FRONT TYPE	windows		SOL	D	GLASS SEG. TRANSP. MIN. 75%		
	24	FILLING	YES			CERIN			
		SEAL DIAPHRAGM	FLUID		YES	IN AISI 316L (S	SEE GENERAL NOT		
	_	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	BY MANUFA			/4"	
	27	SEAL FILLING FLUID			MEDIC	AL WHITE MINI	I ERAL OIL (FDA-APF	PROVED)	
	28	WET PART MATERIAL		316LSS (SEE	GENERAL NOTES 4	· -			
	29	CAPILLARY LENGTH				NOT	REQUIRED		
	30	CAPILLARY MATERIAL			NOT REQUIRED				
<i>(</i> 0	31	PULSATION DAMPER			NOT REQUIRED				
ACCESSORIES	32	MATERIAL				NOT	REQUIRED		
sso	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ	UIRED	NOT RE	QUIRED	
SCE	34	SIPHON TUBE				NOT	REQUIRED		
A	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ	UIRED	NOT RE	QUIRED	
	37	OVERPRESSURE PROTECTOR	•			NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ	UIRED	NOT RE	QUIRED	
	46	TAGGING				YES (SEE GI	ENERAL NOTES 2)		
	40								
	36	FLUID	PHYSICAL STATU	S	CLEAN	AIR	A	IR	
SNS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-		°C	
TIC	38	MINIMUM PRESSURE NORMAL MAXIMUM		MAXIMUM	-	-	-	bar-g	
	39	DESIGN PRESSURE DESIGN TEMPERATURE					°C		
ပိ	40	0 VISCOSITY @ OPERATING CONDITION				-	сР		
Ž		DENSITY @ OPERATING CONDI	ITION			-	kg/m³		
OPERATING CONDITIONS	42	SUSPENDED SOLIDS (%)					-		
9	43	SOLIDIFIES AT ROOM TEMPERA			-				
	44	M.M. / Z / Cp/Cv				/	· /		
		MANUFACTURER			_		WIKA		
	50	MODEL							









TITLE

16 de 55

2

REV.:

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER			PI-510103					
	2	SERVICE			(CLEAN COMPE	RESSED AIR SUPPL	.Y		
	3	P&ID				7B	-Z-0-2-01			
₹	4	PIPE LINE	EQUIPMENT NUM	BER	1/2"-GW0R-510	109-SS5-CC		-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L			
GE	6	AREA CLASSIFICATION				NOT (CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) C	ONF. NBR IEC 6052	9		
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)			
	9									
	10	TYPE OF MEASUREMENT					DIRECT			
	11	MOUNTING				I	LOCAL			
	12	DIAL DIAMETER				1	14 mm			
	13	SCALE COLOR	BACKGROUND CO	OLOR	BLACK WHITE					
	14	PRECISION	•			1% OF THE FIN	NAL VALUE "RANGE	Ξ"		
	15	MATERIAL CASE				30488	POLISHED			
Ē	16	RANGE	RESOLUTION		0 @ 6 b	ar-g	0,	,1		
INSTRUMENT	17	RING TYPE	RING MATERIAL		BAYON	IET	304	4SS		
IST	18	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP	Г (M)	вот	ТОМ		
=	19	SENSOR TYPE	MATERIAL SENSO)R	BOURE	ON	316	6SS		
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	S	316	6SS		
	21	BALANCED POINTER					YES			
	22	MICROMETRIC ADJUSTMENT O	F ZERO				YES			
	23	FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TR	ANSP. MIN. 75%		
	24	FILLING		YES	3	GLYC	CERIN			
	25	SEAL DIAPHRAGM			NOT	REQUIRED				
	26	CONNECTION INSTRUMENT	BY MANUFA	CTURER	1/	/2"				
	27	SEAL FILLING FLUID				NOT	REQUIRED			
	28	WET PART MATERIAL			NOT REQUIRED					
	29	CAPILLARY LENGTH			NOT REQUIRED					
		CAPILLARY MATERIAL			NOT REQUIRED					
S	31	PULSATION DAMPER					REQUIRED			
ACCESSORIES		MATERIAL	1				REQUIRED			
ESS		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ			QUIRED		
l CC		SIPHON TUBE					REQUIRED			
		MATERIAL	I				REQUIRED			
			PROCESS CONNE	-CTION	NOT REQ		NOT RE	:QUIRED		
		OVERPRESSURE PROTECTOR					REQUIRED			
		MATERIAL CONNECTION INSTRUMENT	DD00500 005"	CTION	NOT DEC		REQUIRED	COLUBER		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ			QUIRED		
		TAGGING				res (SEE GI	ENERAL NOTES 2)			
\vdash	40	ELLID	DUVEICAL CTATU	ie.	01.544	AID		ID.		
l _o		FLUID	PHYSICAL STATU		CLEAN -	AIK 	A	IR °C		
Ž O		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-			
		MINIMUM PRESSURE NORMAL MAXIMUM DESIGN PRESSURE DESIGN TEMPERATURE			-		-	°C		
8		VISCOSITY @ OPERATING CONDITION			_		cP			
υ		DENSITY @ OPERATING CONDITION DENSITY @ OPERATING CONDITION					kg/m³			
ZATI		SUSPENDED SOLIDS (%)				-				
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA								
		M.M. / Z / Cp/Cv		11						
	-	MANUFACTURER					WIKA			
		MODEL								
1 1	1 50	i			I					









TITLE

17 de 55

PRESSURE GAUGE SANITARY

REV.: **2**

						2		
1	INSTRUMENT TAG NUMBER			F	PI-510202			
2	SERVICE			PROPYLE	ENE GLYCOL RET			
3	P&ID			71	3-Z-0-2-02			
4	PIPE LINE	EQUIPMENT NUM	MBER	1"-CAP-510228-SS10-NI	-			
5	EQUIPMENT MATERIAL / PIPE	•		ASTM A	1270 Gr. TP316L			
6	AREA CLASSIFICATION			NOT	CLASSIFIED			
7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) C	CONF. NBR IEC 60529			
8	CERTIFICATES			(SEE GE	NERAL NOTES 6)			
9								
10	TYPE OF MEASUREMENT				DIRECT			
11	MOUNTING			LOCAL				
12	DIAL DIAMETER			114 mm				
13	SCALE COLOR	BACKGROUND C	COLOR	BLACK	WHIT	E		
14	PRECISION			1% OF THE F	INAL VALUE "RANGE"			
15	MATERIAL CASE			3048	S POLISHED			
16	RANGE	RESOLUTION		0 @ 3 bar-g	0,1			
17	RING TYPE	RING MATERIAL		BAYONET	304S	S		
18	CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT (M)	ВОТТО	DM		
19	SENSOR TYPE	MATERIAL SENS	OR	BOURDON	316S	S		
20	MATERIAL SOQUETE	MECHANISM MA	TERIAL	316SS	316S	S		
21	BALANCED POINTER			YES				
22 MICROMETRIC ADJUSTMENT OF ZERO					YES			
		-						
-		FLUID			<u> </u>	RIN		
		T						
		PROCESS CONN	IECTION					
				NOT REQUIRED				
-								
		DBOCESS CONN	IECTION			IIDED		
		PROCESS CONN	IECTION			JIKED		
-								
		DDOCESS CONN	IECTION			IIDED		
		I NOCESS CON	LOTION		<u> </u>	SINED		
_								
		PROCESS CONN	IECTION			JIRED		
		1			<u> </u>	==		
40								
_	FLUID	PHYSICAL STATI	US	CLEAN AIR	AIR			
		NORMAL			-	°C		
		NORMAL	MAXIMUM	. .	-	bar-g		
				-	°(
		IDITION			- cP			
					- kg/m³			
	-				-			
43 SOLIDIFIES AT ROOM TEMPERATURE					-			
44	M.M. / Z / Cp/Cv			//				
49	MANUFACTURER			WIKA				
				WIKA				
	3 4 5 6 7 8 9 110 111 112 113 115 116 117 118 119 120 121 122 123 124 125 126 127 128 133 134 135 136 137 138 139 146 140 136 137 138 139 140 141 142 143 144 144 144 144 144 144 144 144 144	Paid Pipe Line Carrierory Carrier	A PRID 4 PIPE LINE EQUIPMENT NUT 5 EQUIPMENT MATERIAL / PIPE 6 AREA CLASSIFICATION 7 ENCLOSURE CLASSIFICATION 8 CERTIFICATES 9	PRID PIPE LINE EQUIPMENT NUMBER PIPE LINE EQUIPMENT NUMBER REACLASSIFICATION CERTIFICATES TYPE OF MEASUREMENT MOUNTING DIAL DIAMETER SCALE COLOR BACKGROUND COLOR PRECISION MATERIAL CASE RANGE RESOLUTION RING TYPE RING MATERIAL CONEX. PROCES. / ACESS. CONNECTION POSITION SENSOR TYPE MATERIAL MICROMETRIC ADJUSTMENT OF ZERO MICROMETRIC ADJUSTMENT PROCESS CONNECTION SEAL FILLING FLUID WET PART MATERIAL CAPILLARY LENGTH CAPILLARY LENGTH MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION SIPHON TUBE MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION SIPHON TUBE MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION SIPHON TUBE MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION SIPHON TUBE MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION AS IPHON TUBE MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION TOVERPRESSURE PROTECTOR MATERIAL CONNECTION INSTRUMENT PROCESS CONNECTION TAGGING MINIMUM TEMPERATURE NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM NORMAL MAXIMUM DENSITY @ OPERATING CONDITION DENSITY @ OPERATING CONDITION SUSPENDED SOLIDS (%) M.M. / Z / CP/CV	3	78 78 78 78 78 78 78 78		









TITLE

18 de 55

2

REV.:

PRESSURE GAUGE SANITARY

							2		
	1	INSTRUMENT TAG NUMBER				PI-510203			
	2	SERVICE			PROPYL	ENE GLYCOL RET			
	3	P&ID				'B-Z-0-2-02			
	4	PIPE LINE	EQUIPMENT NUM	/BER	1/2"-GW0R-510109-SS5-CC	1 -			
ER/		EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L				
GENERAL		AREA CLASSIFICATION			NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
		CERTIFICATES			(SEE GENERAL NOTES 6)				
	9	OEI (TIII 10) (TEO			(022 31	1121012100)			
	_	TYPE OF MEASUREMENT			DIRECT				
		MOUNTING			LOCAL				
		DIAL DIAMETER			114 mm				
		SCALE COLOR	BACKGROUND C	OI OR	BLACK	WHIT			
		PRECISION	Brionericonia e			I TINAL VALUE "RANGE"	_		
		MATERIAL CASE				SS POLISHED			
Ϋ́		RANGE	RESOLUTION		0 @ 6 bar-g	0,1			
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET	3045	 S		
STRI		CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT (M)	ВОТТО			
ΙΞ̈́		SENSOR TYPE	MATERIAL SENS		BOURDON	31688			
	_	MATERIAL SOQUETE	MECHANISM MA		316SS	3168			
		BALANCED POINTER	INICOLITATION MIX	TENAL	01000	YES			
		MICROMETRIC ADJUSTMENT O	F 7FRO		YES				
		FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRAN	ISP MIN 75%		
		FILLING	FLUID		YES	GLYCE			
		SEAL DIAPHRAGM	1 2015			T REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	FCTION	BY MANUFACTURER	1/2"			
		SEAL FILLING FLUID	1			I			
		WET PART MATERIAL				T REQUIRED			
		CAPILLARY LENGTH			NOT REQUIRED				
		CAPILLARY MATERIAL			NOT REQUIRED				
		PULSATION DAMPER			NC	T REQUIRED			
ACCESSORIES	32	MATERIAL			NC	T REQUIRED			
SSOI	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQU	JIRED		
CES		SIPHON TUBE			NC	I T REQUIRED			
AC	35	MATERIAL			NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQU	JIRED		
		OVERPRESSURE PROTECTOR	1			T REQUIRED			
	38	MATERIAL			NC	T REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQU	JIRED		
	46	TAGGING			YES (SEE	GENERAL NOTES 2)			
	40								
	36	FLUID	PHYSICAL STATI	JS	CLEAN AIR	AIR			
SN	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C		
E OE	38	MINIMUM PRESSURE	NORMAL	MAXIMUM		-	bar-g		
N N	39	DESIGN PRESSURE DESIGN TEMPERATURE			-	·(;		
300	40	VISCOSITY @ OPERATING CON	IDITION			- cP			
OPERATING CONDITIONS	41	DENSITY @ OPERATING CONDITION SUSPENDED SOLIDS (%)				- kg/m³			
ERA	42					-			
OPE	43	SOLIDIFIES AT ROOM TEMPERA	ATURE			-			
	44	M.M. / Z / Cp/Cv			11				
	49	MANUFACTURER			WIKA				
	50	MODEL							
-			_						









TITLE

19 de 55

2

REV.:

PRESSURE GAUGE SANITARY

							2		
	1	INSTRUMENT TAG NUMBER			P	I-520103			
	2	SERVICE			PROPYLE	NE GLYCOL RET			
	3	P&ID			7E	-Z-0-2-03			
	4	PIPE LINE	EQUIPMENT NUN	MBER	1/2"-GW0R-520111-SS5-CC	_			
ER/		EQUIPMENT MATERIAL / PIPE	l		ASTM A270 Gr. TP316L				
GENERAL		AREA CLASSIFICATION			NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
		CERTIFICATES			(SEE GENERAL NOTES 6)				
	9	OLIVII IO/VIEG			(022 32)	12.012.00			
	_	TYPE OF MEASUREMENT				DIRECT			
		MOUNTING			LOCAL				
		DIAL DIAMETER			114 mm				
		SCALE COLOR	BACKGROUND C	OI OR	BLACK	WHITE			
		PRECISION				NAL VALUE "RANGE"			
		MATERIAL CASE				S POLISHED			
Ϋ́		RANGE	RESOLUTION		0 @ 6 bar-g	0,1			
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET	304SS			
STR		CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT (M)	воттом			
ΙŽ		SENSOR TYPE	MATERIAL SENS		BOURDON	316SS			
	_	MATERIAL SOQUETE	MECHANISM MA		316SS	316SS			
		BALANCED POINTER	<u> </u>			YES			
		MICROMETRIC ADJUSTMENT O	F ZERO						
		FRONT TYPE	WINDOWS		SOLID	YES GLASS SEG. TRANSP. MIN. 75%			
		FILLING	FLUID		YES	GLYCERIN			
		SEAL DIAPHRAGM			NOT	REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFACTURER	1/2"			
	27	SEAL FILLING FLUID			NOT	REQUIRED			
	28	WET PART MATERIAL			NOT	REQUIRED			
	29	CAPILLARY LENGTH			NOT REQUIRED				
	30	CAPILLARY MATERIAL			NOT REQUIRED				
<i>(</i> 0	31	PULSATION DAMPER			NOT	REQUIRED			
ACCESSORIES	32	MATERIAL			NOT	REQUIRED			
SSO	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED			
SCE	34	SIPHON TUBE			NOT	REQUIRED			
¥	35	MATERIAL			NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED			
	37	OVERPRESSURE PROTECTOR			NOT	REQUIRED			
	38	MATERIAL			NOT	REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED			
	46	TAGGING			YES (SEE G	ENERAL NOTES 2)			
	40								
	36	FLUID	PHYSICAL STATI	JS	PROPYLENE GLYCOL	LIQUID			
SNC	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM		- '	°C		
] E		MINIMUM PRESSURE NORMAL MAXIMUM					ar-g		
ON IN		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-	°C			
0 E		VISCOSITY @ OPERATING CON				сР			
NIT/		DENSITY @ OPERATING CONDI	ITION			kg/m³			
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)				-			
占		SOLIDIFIES AT ROOM TEMPERA	ATURE		-				
Ш		M.M. / Z / Cp/Cv			11				
		MANUFACTURER				WIKA			
	50	MODEL							









TITLE

20 de 55

2

REV.:

PRESSURE GAUGE SANITARY

							2		
	1	INSTRUMENT TAG NUMBER			P	1-520203			
	2	SERVICE			PROPYLE	NE GLYCOL RET			
	3	P&ID			7E	3-Z-0-2-04			
 -	4	PIPE LINE	EQUIPMENT NUN	MBER	1/2"-GW0R-520111-SS5-CC				
ER/		EQUIPMENT MATERIAL / PIPE	l		ASTM A270 Gr. TP316L				
GENERAL		AREA CLASSIFICATION			NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
	<u> </u>	CERTIFICATES			(SEE GENERAL NOTES 6)				
	9	OLIVIII IO/VIEO			(OLL OLI	VEIVAE IVOTEO 0)			
	_	TYPE OF MEASUREMENT				DIRECT			
	l	MOUNTING							
		DIAL DIAMETER			LOCAL				
		SCALE COLOR	BACKCBOLIND C	OLOB.	BLACK	114 mm WHITE			
		PRECISION	BACKGROUND C	OLOR		NAL VALUE "RANGE"			
Ε		MATERIAL CASE	DESCULITION			S POLISHED			
JME		RANGE	RESOLUTION		0 @ 6 bar-g	0,1			
NSTRUMENT		RING TYPE	RING MATERIAL	NOITION	BAYONET	304SS			
INS	_	CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT (M)	BOTTOM			
	-	SENSOR TYPE	MATERIAL SENS		BOURDON	316SS			
		MATERIAL SOQUETE	MECHANISM MA	IERIAL	316SS	316SS			
		BALANCED POINTER			YES				
		MICROMETRIC ADJUSTMENT O			00115	YES			
		FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRANSP. MIN. 75% GLYCERIN			
-	_	FILLING	FLUID		YES	<u> </u>			
	_	SEAL DIAPHRAGM	Inno on o o o o o o o o o o o o o o o o	FOTION		REQUIRED 1/01			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFACTURER	1/2"			
	-	SEAL FILLING FLUID				REQUIRED			
		WET PART MATERIAL			NOT REQUIRED				
		CAPILLARY LENGTH CAPILLARY MATERIAL			NOT REQUIRED				
		PULSATION DAMPER			NOT REQUIRED NOT REQUIRED				
ES	_	MATERIAL							
Sor		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	REQUIRED NOT BEOLUB	ED.		
ACCESSORIES		SIPHON TUBE	FROCESS CONN	ECTION		NOT REQUIR REQUIRED			
ACC		MATERIAL							
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED NOT REQUIRED				
		OVERPRESSURE PROTECTOR	FROCESS CONN	ECTION					
		MATERIAL				REQUIRED REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONN	FCTION	NOT REQUIRED	NOT REQUIR	 FD		
	46	TAGGING	1			ENERAL NOTES 2)			
	40				120 (522 0				
\vdash		FLUID	PHYSICAL STATI	 JS	PROPYLENE GLYCOL	LIQUID			
<u>s</u>		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C		
15		MINIMUM PRESSURE	NORMAL	MAXIMUM		_	bar-g		
ā		DESIGN PRESSURE DESIGN TEMPERATURE				°C			
8		VISCOSITY @ OPERATING CON				· cP			
ING.		DENSITY @ OPERATING CONDI				- kg/m³			
RAT		42 SUSPENDED SOLIDS (%)			- kg/m²				
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE		-				
		M.M. / Z / Cp/Cv							
	-	MANUFACTURER			/ / WIKA				
		MODEL							
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TITLE

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2

REV.:

PRESSURE GAUGE SANITARY

							2		
	1	INSTRUMENT TAG NUMBER			P	I-520225			
	2	SERVICE			PROPYLE	NE GLYCOL RET			
	3	P&ID			76	3-Z-0-2-04			
 -	4	PIPE LINE	EQUIPMENT NUM	/BER	1"-GW0S-520221-CS1-CC	-			
ER/		EQUIPMENT MATERIAL / PIPE	<u> </u>		ASTM A270 Gr. TP316L				
GENERAL		AREA CLASSIFICATION			NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION				ONF. NBR IEC 60529			
		CERTIFICATES			(SEE GENERAL NOTES 6)				
	9	OLIVII IO/VIEG			(022 02)	TENTE NOTES S			
	_	TYPE OF MEASUREMENT				DIRECT			
		MOUNTING			LOCAL				
		DIAL DIAMETER			114 mm				
		SCALE COLOR	BACKGROUND C	OI OR	BLACK	WHITE			
		PRECISION				NAL VALUE "RANGE"			
		MATERIAL CASE				S POLISHED			
Ä		RANGE	RESOLUTION		0 @ 6 bar-g	0,1			
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET	304SS			
STR		CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT (M)	воттом			
Z		SENSOR TYPE	MATERIAL SENS		BOURDON	316SS			
	20	MATERIAL SOQUETE	MECHANISM MA	TERIAL	316SS	316SS			
	21	BALANCED POINTER	l			YES			
	22	MICROMETRIC ADJUSTMENT O	F ZERO						
	23	FRONT TYPE	WINDOWS		SOLID	YES GLASS SEG. TRANSP. MIN. 75%			
	24	FILLING	FLUID		YES	GLYCERIN	J		
	25	SEAL DIAPHRAGM			NOT	REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFACTURER	1/2"			
	27	SEAL FILLING FLUID	I		NOT	REQUIRED			
	28	WET PART MATERIAL			NOT	REQUIRED			
	29	CAPILLARY LENGTH			NOT REQUIRED				
	30	CAPILLARY MATERIAL			NOT REQUIRED				
ဟ	31	PULSATION DAMPER			NOT	REQUIRED			
ACCESSORIES	32	MATERIAL			NOT	REQUIRED			
SSC	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIR	RED		
SC	34	SIPHON TUBE	•		NOT	REQUIRED			
¥	35	MATERIAL			NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIR	RED		
	37	OVERPRESSURE PROTECTOR			NOT	REQUIRED			
	38	MATERIAL			NOT	REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIF	RED		
	46	TAGGING			YES (SEE G	ENERAL NOTES 2)			
	40								
	36	FLUID	PHYSICAL STATI	JS	PROPYLENE GLYCOL	LIQUID			
SNC		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C		
] JT(MINIMUM PRESSURE NORMAL MAXIMUM			- -	-	bar-g		
Ŏ		DESIGN PRESSURE	DESIGN TEMPER	RATURE	-	°C			
16 C		VISCOSITY @ OPERATING CON				· cP			
ATIN		DENSITY @ OPERATING COND	ITION			· kg/m³			
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)				-			
Ö		SOLIDIFIES AT ROOM TEMPERA	ATURE		-				
\vdash		M.M. / Z / Cp/Cv			//				
		MANUFACTURER				WIKA			
Ш	50	MODEL							









TITLE

22 de 55

2

REV.:

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER				PI	-570102	•	
	2	SERVICE				CLEAN CO	MP. AIR SUPPLY		
	3	P&ID				7B-	-Z-0-2-21		
		PIPE LINE	EQUIPMENT NUM	BER	1"-CAP-57012	8-SS10-NI	_		
GENERAL		EQUIPMENT MATERIAL / PIPE	l		ASTM A270 Gr. TP316L				
JEN		AREA CLASSIFICATION					CLASSIFIED		
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529		
	8	CERTIFICATES					ERAL NOTES 6)		
	9	OLIVIII IOATEO				(OLL OLIV	LIVIL NOTES 0)		
	_	TYPE OF MEASUREMENT					DIRECT		
		MOUNTING			LOCAL				
		DIAL DIAMETER					14 mm		
		SCALE COLOR	BACKGROUND CO	OLOR	BLAC		WHI	TE	
		PRECISION	prioritorito di la				I NAL VALUE "RANGE'		
		MATERIAL CASE					POLISHED		
Ϋ́		RANGE	RESOLUTION		0 @ 6.0 l		0,1		
OME		RING TYPE	RING MATERIAL		BAYON	-	304		
INSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M) / COOL		ВОТТ		
ΙŽ		SENSOR TYPE	MATERIAL SENSO		BOURD		316		
		MATERIAL SOQUETE MECHANISM MATERIAL		3168		316			
		BALANCED POINTER			YES				
		MICROMETRIC ADJUSTMENT O	YES						
		FRONT TYPE		SOLII	D		GLASS SEG. TRANSP. MIN. 75%		
	24	FILLING		YES		GLYCI	ERIN		
	_	SEAL DIAPHRAGM		NOT	REQUIRED				
	26	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	BY MANUFA		1/2)"	
	27	SEAL FILLING FLUID	<u> </u>			NOT	I REQUIRED		
	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		
sso	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQI	JIRED	NOT REC	QUIRED	
SCE	34	SIPHON TUBE	•			NOT	REQUIRED		
¥	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2" NP1	Γ (F)	BY MANUF	ACTURER	
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQI	JIRED	NOT REC	QUIRED	
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)		
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	INECTION	YES		1/2" NF	PT (F)	
	36	FLUID	PHYSICAL STATU	S	AIR		GA	S	
SNS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
) I	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
ON I	39	DESIGN PRESSURE DESIGN TEMPERATURE		ATURE	-			°C	
Ö O	40	VISCOSITY @ OPERATING CON			-	сР			
NI		DENSITY @ OPERATING CONDITION				-	kg/m³		
OPERATING CONDITIONS	42	SUSPENDED SOLIDS (%)			-				
9	43	SOLIDIFIES AT ROOM TEMPERATURE			-				
		M.M. / Z / Cp/Cv	M.M. / Z / Cp/Cv			11			
		MANUFACTURER					WIKA		
	50	MODEL							









TITLE

23 de 55

2

REV.:

PRESSURE GAUGE SANITARY

							2		
	1	INSTRUMENT TAG NUMBER			P	-570103			
	2	SERVICE			CHILLED WAT	ER LOOP 1, RETURN			
	3	P&ID			7B	-Z-0-2-21			
	4	PIPE LINE	EQUIPMENT NUM	IBER	1/2"-GW0R-570111-SS5-CC	i .			
ER/		EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L				
GENERAL		AREA CLASSIFICATION			NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
		CERTIFICATES			(SEE GENERAL NOTES 6)				
	9	OLIVIII IOATEO			(OLL OLI	ELIVIE NOTEO 0)			
	_	TYPE OF MEASUREMENT			DIRECT				
	_	MOUNTING			LOCAL				
		DIAL DIAMETER				114 mm			
			DACKODOLIND O	OL OR					
		SCALE COLOR	BACKGROUND C	ULUR	BLACK	WHITE "DANGE"			
		PRECISION				NAL VALUE "RANGE"			
Þ		MATERIAL CASE				S POLISHED			
NSTRUMENT		RANGE	RESOLUTION		0 @ 6.0 bar-g	0,1			
TRU		RING TYPE	RING MATERIAL		BAYONET	304SS			
INS.		CONEX. PROCES. / ACESS.	CONNECTION PC		1/2" NPT (M) / COOLING ELEMENT	ВОТТОМ			
	19	SENSOR TYPE	MATERIAL SENSO	OR	BOURDON	316SS			
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316SS	316SS			
		BALANCED POINTER			YES				
	22	MICROMETRIC ADJUSTMENT O				YES			
		FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRANS	P. MIN. 75%		
	24	FILLING	FLUID		YES	GLYCERII	١		
	25	SEAL DIAPHRAGM			NOT	REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	BY MANUFACTURER	1/2"			
	27	SEAL FILLING FLUID			NOT	REQUIRED			
	28	WET PART MATERIAL			316LSS (SEE	GENERAL NOTES 4)			
	29	CAPILLARY LENGTH			NOT REQUIRED				
	30	CAPILLARY MATERIAL			NOT REQUIRED				
ပ္ပ	31	PULSATION DAMPER			NOT	REQUIRED			
ACCESSORIES	32	MATERIAL			NOT	REQUIRED			
SSC	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQUIF	₹ED		
SC	34	SIPHON TUBE			NOT	REQUIRED			
¥	35	MATERIAL			NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	1/2" NPT (F)	BY MANUFACT	URER		
	37	OVERPRESSURE PROTECTOR			NOT	REQUIRED			
	38	MATERIAL			NOT	REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQUIF	₹ED		
	46	TAGGING			YES (SEE G	ENERAL NOTES 2)			
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	NNECTION	YES	1/2" NPT (I	=)		
	36	FLUID	PHYSICAL STATU	JS	WATER	LIQUID			
SNS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C		
E I	38	MINIMUM PRESSURE	NORMAL	MAXIMUM		-	bar-g		
₽ N	39	DESIGN PRESSURE DESIGN TEMPERATURE		ATURE	-	°C			
18	40	VISCOSITY @ OPERATING CONDITION			-	cР			
ĕ	41	density @ Operating condition			-	kg/m³			
OPERATING CONDITIONS	42	42 SUSPENDED SOLIDS (%)							
OPE	43	SOLIDIFIES AT ROOM TEMPERA	ATURE			-			
	44	M.M. / Z / Cp/Cv			11				
	49	MANUFACTURER			WIKA				
	50	MODEL							
$\overline{}$									









TITLE

24 de 55

PRESSURE GAUGE SANITARY

REV.:

									2	
	1	INSTRUMENT TAG NUMBER					PI	-570202	•	
	2	SERVICE				C	CHILLED WATI	ER LOOP 1, SUPPL	Υ	
	3	P&ID					7B-	Z-0-2-22		
ᅱ	4	PIPE LINE	EQUIPMENT NUM	BER	1"-CAP-5	70228	3-SS10-NI		-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE					ASTM A2	70 Gr. TP316L		
GE	6	AREA CLASSIFICATION					NOT (CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION				ı	P 65 (MÍN.) CO	ONF. NBR IEC 60529	9	
	8	CERTIFICATES					. ,	ERAL NOTES 6)		
	9				(622 62.12.10.2.106.200)					
		TYPE OF MEASUREMENT						IRECT		
	11	MOUNTING						.OCAL		
		DIAL DIAMETER						14 mm		
		SCALE COLOR	BACKGROUND CO	OLOR	-	BLAC			IITE	
		PRECISION	BACKCROOND O	SLOIK	'			IAL VALUE "RANGE		
		MATERIAL CASE						POLISHED	-	
Ä		RANGE	RESOLUTION		0.0	6.0 b		0,	1	
NSTRUMENT		RING TYPE	RING MATERIAL			YON		,	ISS	
TR		CONEX. PROCES. / ACESS.				BOT				
SZ			` ′		ING ELEMENT					
		SENSOR TYPE		OURD			SSS			
		MATERIAL SOQUETE	,	316SS	•		SSS			
		BALANCED POINTER			YES					
		MICROMETRIC ADJUSTMENT O	ADJUSTMENT OF ZERO WINDOWS			SOLID			YES GLASS SEG. TRANSP. MIN. 759	
		FRONT TYPE	;	SOLIE)					
		FILLING			YES			CERIN		
		SEAL DIAPHRAGM				REQUIRED				
		CONNECTION INSTRUMENT	BY MAN	IUFAC	CTURER	1/	2"			
		SEAL FILLING FLUID						REQUIRED		
		WET PART MATERIAL					•	GENERAL NOTES 4)	
		CAPILLARY LENGTH						REQUIRED		
		CAPILLARY MATERIAL						REQUIRED		
S	31	PULSATION DAMPER					NOT	REQUIRED		
ORI		MATERIAL	•					REQUIRED		
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT	REQL	JIRED		QUIRED	
SS	34	SIPHON TUBE					NOT	REQUIRED		
٩	35	MATERIAL			NOT REQUIRED					
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2	" NPT	(F)	BY MANUF	ACTURER	
		OVERPRESSURE PROTECTOR						REQUIRED		
		MATERIAL					NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT	REQL	JIRED		QUIRED	
		TAGGING					YES (SEE GE	ENERAL NOTES 2)		
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	INECTION		YES		1/2" N	PT (F)	
	36	FLUID	PHYSICAL STATU	S		AIR		G/	AS	
SNS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		-	-	°C	
Ξĺ	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-		-	-	bar-g	
\ 	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE		-			°C	
ٽ ڻ	40	VISCOSITY @ OPERATING CON	DITION				-	cР		
OPERATING CONDITIONS	41	DENSITY @ OPERATING CONDI	TION					kg/m³		
ERA	42	SUSPENDED SOLIDS (%)						-		
OP	43	SOLIDIFIES AT ROOM TEMPERA	ATURE					-		
	44	M.M. / Z / Cp/Cv			11					
	49	49 MANUFACTURER			WIKA					
	50	MODEL								
-					_					









TITLE

25 de 55

REV.:

PRESSURE GAUGE SANITARY

								2
	1	INSTRUMENT TAG NUMBER				PI	-570203	
	2	SERVICE				CHILLED WATI	ER LOOP 1, RETURN	
	3	P&ID				7B	-Z-0-2-22	
l∀	4	PIPE LINE	EQUIPMENT NUM	1BER	1"-CAP-57022	8-SS10-NI	-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	1 270 Gr. TP316L	
GEN	6	AREA CLASSIFICATION				NOT (CLASSIFIED	
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) C	ONF. NBR IEC 60529	
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)	
	9					,	,	
Н	10	TYPE OF MEASUREMENT					DIRECT	
	11	MOUNTING				l	LOCAL	
	12	DIAL DIAMETER				1	14 mm	
		SCALE COLOR	BACKGROUND C	OLOR	BLAC		WHITI	E
		PRECISION					I NAL VALUE "RANGE"	
		MATERIAL CASE					S POLISHED	
ΙŻ		RANGE	RESOLUTION		0 @ 6.0		0,1	
NSTRUMENT	-	RING TYPE	RING MATERIAL		BAYON		304SS	3
JIR!	_	CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NPT (M) / COO		ВОТТС	
=		SENSOR TYPE	MATERIAL SENSO		BOURE		31688	
		MATERIAL SOQUETE	MECHANISM MAT		316S		31658	
	-	BALANCED POINTER	INICOTATION WA	LINAL	3100		YES	,
		MICROMETRIC ADJUSTMENT O	YES					
		FRONT TYPE	WINDOWS		SOLI	n	GLASS SEG. TRAN	ISD MINI 75%
		FILLING	YES		GLYCEF			
\vdash		SEAL DIAPHRAGM	FLUID		TES		REQUIRED	XIIN
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFA		1/2"	
			PROCESS CONN	ECTION	BT WANUFA		·	
		SEAL FILLING FLUID WET PART MATERIAL			REQUIRED GENERAL NOTES 4)			
	_			•				
		CAPILLARY LENGTH			REQUIRED			
		CAPILLARY MATERIAL PULSATION DAMPER					REQUIRED	
ES		MATERIAL					REQUIRED	
l %		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT BEO		REQUIRED NOT REQU	IIDED
ACCESSORIES		SIPHON TUBE	FROCESS CONN	ECTION	NOT REQ		REQUIRED	JINED
ACC		MATERIAL					REQUIRED	
			DDOCESS COMM	ECTION	4/0" ND			TUDED
		CONNECTION INSTRUMENT OVERPRESSURE PROTECTOR	PROCESS CONN	ECTION	1/2" NP		BY MANUFAC	SIUNEN
	-						REQUIRED REQUIRED	
		MATERIAL CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT DEC			IIDED
		CONNECTION INSTRUMENT	FRUCESS CUNIN	ECTION	NOT REQ		NOT REQUENERAL NOTES 2)	אועבט
		TAGGING	ELECTRICAL COM	INECTION	YES	•	, , , , , , , , , , , , , , , , , , ,	· (E)
\vdash		ELECTRIC CONTACT ADJUSTABLE					1/2" NPT	
\ _{\sigma}		FLUID	PHYSICAL STATU		AIR	· 	GAS	°C
NO NO		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	
DIT		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		-	bar-g
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-	•		,
NG		VISCOSITY @ OPERATING COND					cP	
ATI		DENSITY @ OPERATING CONDI	HUN			-	kg/m³	
PER		SUSPENDED SOLIDS (%)	TUDE				-	
Ō		SOLIDIFIES AT ROOM TEMPERA	ATURE				-	
\vdash		M.M. / Z / Cp/Cv					\\\	
		MANUFACTURER					WIKA	
Ш	50	MODEL						









TITLE

26 de 55

2

REV.:

PRESSURE GAUGE SANITARY

								2	
	1	INSTRUMENT TAG NUMBER				PI	-590102		
GENERAL	2	SERVICE			СН	ILLED WATI	ER LOOP 1, SUPPLY		
	3	P&ID				7B-	Z-0-2-24		
뒫	4	PIPE LINE	EQUIPMENT NUM	1BER	1"-CAP-590128-S	S10-NI	-		
ĒR	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	70 Gr. TP316L		
GE	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					IRECT		
	11	MOUNTING				L	.OCAL		
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACK WHITE				
		PRECISION				OF THE FIN	IAL VALUE "RANGE"		
		MATERIAL CASE					POLISHED		
Ä		RANGE	RESOLUTION		0 @ 6.0 bar		0,1		
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET		304SS	 }	
STR		CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NPT (M) / COOLIN	G ELEMENT	ВОТТО	M	
Z		SENSOR TYPE	MATERIAL SENS		BOURDON		316SS		
		MATERIAL SOQUETE	MECHANISM MAT		316SS		316SS		
		BALANCED POINTER					YES		
		MICROMETRIC ADJUSTMENT O	YES						
	_	FRONT TYPE	windows		SOLID		GLASS SEG. TRAN	SP MIN 75%	
		FILLING	FLUID		YES		GLYCEF		
_	_	SEAL DIAPHRAGM	1 2015		120	NOT	REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFACT		1/2"		
		SEAL FILLING FLUID	2		REQUIRED				
	_				310		GENERAL NOTES 4)		
						•	REQUIRED		
		CAPILLARY MATERIAL					REQUIRED		
		PULSATION DAMPER					REQUIRED		
ACCESSORIES		MATERIAL					REQUIRED		
SO		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIR	RED	NOT REQU	JIRED	
SS		SIPHON TUBE				NOT	REQUIRED		
AC		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	1/2" NPT (F		BY MANUFAC	TURER	
		OVERPRESSURE PROTECTOR			(,	REQUIRED		
		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIR		NOT REQU	JIRED	
	46	TAGGING	<u> </u>		Y	'ES (SEE GE	ENERAL NOTES 2)		
		ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	NNECTION	YES	,	1/2" NPT	(F)	
\neg	_	FLUID	PHYSICAL STATU		AIR		GAS	•	
Ş	_	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	- 1	-	-	°C	
Į Į		MINIMUM PRESSURE	NORMAL	MAXIMUM	_	-	-	bar-g	
Ī		DESIGN PRESSURE			-		°C		
\cap						-	cP		
Ω	40								
ING CC			ITION	DENSITY @ OPERATING CONDITION			- kg/m³		
RATING CO	41	DENSITY @ OPERATING CONDI	ITION				-		
OPERATING CC	41 42						-		
OPERATING CONDITIONS	41 42 43	DENSITY @ OPERATING CONDI SUSPENDED SOLIDS (%)				/	- - /		
OPERATING CC	41 42 43 44	DENSITY @ OPERATING CONDI SUSPENDED SOLIDS (%) SOLIDIFIES AT ROOM TEMPERA					- - / WIKA		









TITLE

SHEET: 27 de 55

REV.: **2**

PRESSURE GAUGE SANITARY

								_
	1	INSTRUMENT TAG NUMBER			PI-590103			
	2	SERVICE			CHILLED WATER LOOP 1, SUPPLY			
	3	P&ID				7B	-Z-0-2-24	
	4	PIPE LINE	EQUIPMENT NUM	IBER	1/2"-GW0R-590	111-SS5-CC		-
GENERAL	5	EQUIPMENT MATERIAL / PIPE	J.		ASTM A270 Gr. TP316L			
JEN		AREA CLASSIFICATION					CLASSIFIED	
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 6052	9
	8	CERTIFICATES					ERAL NOTES 6)	
	9	OEI (TIII 10/ (TEO				(022 021	210121101200)	
	-	TYPE OF MEASUREMENT				Г	DIRECT	
		MOUNTING					OCAL	
		DIAL DIAMETER					14 mm	
		SCALE COLOR	BACKGROUND C	OLOR	BLAC			HITE
		PRECISION	Briorier (Cont.)	02011			I NAL VALUE "RANGE	
		MATERIAL CASE						_
Ϋ́		RANGE	RESOLUTION		0 @ 6.0	.0 bar-g 0,1		1
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON			4SS
II.		CONEX. PROCES. / ACESS.	CONNECTION PO	INOLITION	1/2" NPT (M) / COO			TOM
ž		SENSOR TYPE	MATERIAL SENSO		BOURE			SSS
		MATERIAL SOQUETE	MECHANISM MAT		316S			3SS 3SS
		BALANCED POINTER	INIECI IANISINI INIA I	ENAL	3103	<u> </u>		
		MICROMETRIC ADJUSTMENT O	YES					
	-	FRONT TYPE	WINDOWS		SOLI	n	YES GLASS SEG. TRANSP. MIN. 75%	
		FILLING FLUID			YES			CERIN
	-	SEAL DIAPHRAGM	123		REQUIRED	JENIN		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	BY MANUFA			/2"
		SEAL FILLING FLUID	FROCESS CONN	ECTION	BT WANGFA		'/ REQUIRED	
		WET PART MATERIAL					GENERAL NOTES 4	\ <u>\</u>
						•	REQUIRED	')
		CAPILLARY MATERIAL					REQUIRED	
		PULSATION DAMPER					REQUIRED	
ACCESSORIES		MATERIAL					REQUIRED	
SOR		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ			QUIRED
ES		SIPHON TUBE	I ROCESS CONN	LOTION	NOTINE		REQUIRED	.QUINED
ACC		MATERIAL					REQUIRED	
			PROCESS CONNE	ECTION	1/2" ND			EACTUDED
		CONNECTION INSTRUMENT OVERPRESSURE PROTECTOR	I NOCESS CONN	LOTION	1/2" NP		REQUIRED	FACTURER
		MATERIAL					REQUIRED	
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ			QUIRED
		TAGGING	I NOOLOO CONNI		NOTIVE		ENERAL NOTES 2)	.GOII (ED
		ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	NECTION	YES	•	,	IPT (F)
\vdash		FLUID	PHYSICAL STATU		AIR			AS
ဖွ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	- All	l <u>.</u>		-°C
N	F -	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	_		bar-g
 		DESIGN PRESSURE	DESIGN TEMPER		-	<u> </u>		°C
Ö	40	VISCOSITY @ OPERATING CON			-		<u></u> сР	
NG NG		DENSITY @ OPERATING CONDI					kg/m³	
₹ATI		SUSPENDED SOLIDS (%)					-	
OPERATING CONDITIONS			ATURE					
0		SOLIDIFIES AT ROOM TEMPERATURE M.M. / Z / Cp/Cv			11			
\vdash	-	MANUFACTURER			 		WIKA	
		MODEL					******	
1	1 30	I CDEE			1			









TITLE

SHEET: 28 de 55

REV.:

2

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER				PI	-590202	
	2	SERVICE			CLEAN COMP. AIR			
	3	P&ID				7B-	-Z-0-2-25	
_		PIPE LINE	EQUIPMENT NUM	BER	1"-CAP-59022	8-SS10-NI	_	
ER		EQUIPMENT MATERIAL / PIPE					l 270 Gr. TP316L	
GENERAL		AREA CLASSIFICATION					CLASSIFIED	
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	
	8	CERTIFICATES						
	9	CENTIFICATES			(SEE GENERAL NOTES 6)			
	<u> </u>	TYPE OF MEASUREMENT					DIRECT	
	11	MOUNTING			LOCAL			
		DIAL DIAMETER			114 mm			
		SCALE COLOR	BACKGROUND CO	OLOR	BLAC		whi	TF
		PRECISION					I NAL VALUE "RANGE"	
		MATERIAL CASE					POLISHED	
ΙN		RANGE	RESOLUTION		0 @ 6.0 l		0,1	
INSTRUMENT		RING TYPE	RING MATERIAL		BAYON	-	3049	
STRI		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M) / COOL		ВОТТ	
Ĭ _S		SENSOR TYPE	MATERIAL SENSO		BOURD		3169	
		MATERIAL SOQUETE	MECHANISM MAT		316S		3168	
		BALANCED POINTER	INECHANISINI INAT	ERIAL	3103	3	YES	
			F 7FD0					
		MICROMETRIC ADJUSTMENT O		SOLID		YES GLASS SEG. TRA	NICD MINI 750/	
		FRONT TYPE WINDOWS FILLING FLUID			YES			
-	_	SEAL DIAPHRAGM	FLOID		1 1 2 3		GLYCE	EKIN
	_	CONNECTION INSTRUMENT	PROCESS CONNE	CTION	BY MANUFA		REQUIRED 1/2	5II
	_	SEAL FILLING FLUID			BT WANUFA			-
							REQUIRED	
		WET PART MATERIAL CAPILLARY LENGTH				•	GENERAL NOTES 4) REQUIRED	
		CAPILLARY MATERIAL					REQUIRED	
		PULSATION DAMPER						
ES	_						REQUIRED	
SOR		MATERIAL	Indoneso comm	TOTION	NOT DECI		REQUIRED	NUDED
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQI		NOT REC	QUIKED
ACC		SIPHON TUBE					REQUIRED	
		MATERIAL	IDDOOFOO OONNE	TOTION	4/0" ND3		REQUIRED	AOTUDED
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2" NP1		BY MANUFA	ACTURER
		OVERPRESSURE PROTECTOR					REQUIRED REQUIRED	
		MATERIAL CONNECTION INSTRUMENT	PROCESS CONNE	CTION	NOT REQI			NIIDED
		TAGGING	FROCESS CONNE	ECTION	NOT REQU		NOT REC ENERAL NOTES 2)	ZOINED
		ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	INECTION	YES		1/2" NF	DT (E)
-	_	FLUID	PHYSICAL STATU		AIR		GA	
S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	_	- J	°C
NO.		MINIMUM PRESSURE	NORMAL	MAXIMUM	<u> </u>			bar-g
T Q		DESIGN PRESSURE	DESIGN TEMPERA				<u> </u>	°C
8		VISCOSITY @ OPERATING CON		, II JILL	-		 cP	
Ŋ		DENSITY @ OPERATING CONDI			1		kg/m³	
₹ATI		SUSPENDED SOLIDS (%)	THOIN				-	
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ΔTI IRF					
		M.M. / Z / Cp/Cv	TIONE				<u>-</u> '/	
\vdash	_	MANUFACTURER			-		WIKA	
		MODEL					*****	
\Box	00	IMODEL			L			









TITLE

29 de 55

2

REV.:

PRESSURE GAUGE SANITARY

							2
	1	INSTRUMENT TAG NUMBER			P	I-590203	
	2	SERVICE			WATER LOOP	1, RETURN CHILLED	
	3	P&ID			7B	-Z-0-2-25	
	4	PIPE LINE	EQUIPMENT NUM	IBER	1/2"-GW0R-590211-SS5-CC	-	
ER/	5	EQUIPMENT MATERIAL / PIPE	l		ASTM A	I 270 Gr. TP316L	
GENERAL		AREA CLASSIFICATION				CLASSIFIED	
		ENCLOSURE CLASSIFICATION				ONF. NBR IEC 60529	
		CERTIFICATES			` ,	IERAL NOTES 6)	
	9	OLIVIII IO/VIEO			(OLL OLI	ici (Ac NOTEO 0)	
	_	TYPE OF MEASUREMENT			r	DIRECT	
	_	MOUNTING					
					LOCAL		
		DIAL DIAMETER		01.00	114 mm		
		SCALE COLOR	BACKGROUND C	ULUR	BLACK	WHITE	
		PRECISION				NAL VALUE "RANGE"	
F		MATERIAL CASE	I			S POLISHED	
ME		RANGE	RESOLUTION		0 @ 6.0 bar-g	0,1	
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET	304SS	
LSNI	18	CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NPT (M) / COOLING ELEMENT	вотто	VI
	19	SENSOR TYPE	MATERIAL SENSO	OR	BOURDON	316SS	
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316SS	316SS	
	21	BALANCED POINTER				YES	
	22	MICROMETRIC ADJUSTMENT O	F ZERO		YES		
	23	FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRAN	SP. MIN. 75%
	24	FILLING	FLUID		YES	GLYCER	IN
	25	SEAL DIAPHRAGM			NOT	REQUIRED	
	26	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	BY MANUFACTURER	1/2"	
	27	SEAL FILLING FLUID			NOT	REQUIRED	
	28	WET PART MATERIAL			316LSS (SEE	GENERAL NOTES 4)	
	29	CAPILLARY LENGTH			NOT	REQUIRED	
	30	CAPILLARY MATERIAL			NOT	REQUIRED	
w	31	PULSATION DAMPER			NOT	REQUIRED	
ACCESSORIES	32	MATERIAL			NOT	REQUIRED	
SSO	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQU	IRED
CES	34	SIPHON TUBE			NOT	REQUIRED	
AC	35	MATERIAL			NOT	REQUIRED	
	36	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	1/2" NPT (F)	BY MANUFAC	TURER
		OVERPRESSURE PROTECTOR	l		` '	REQUIRED	
		MATERIAL				REQUIRED	
		CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQU	IRED
		TAGGING				ENERAL NOTES 2)	
		ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	NNECTION	YES	1/2" NPT	(F)
	_	FLUID	PHYSICAL STATU		WATER	LIQUIE	
<u>S</u>		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C
O.		MINIMUM PRESSURE	NORMAL	MAXIMUM		_	bar-g
		DESIGN PRESSURE	DESIGN TEMPER				
Ŝ		VISCOSITY @ OPERATING CON				cP ~	
NG		DENSITY @ OPERATING CONDI				kg/m³	
₹ATI		SUSPENDED SOLIDS (%)				-	
OPERATING CONDITIONS	_	SOLIDIFIES AT ROOM TEMPERA	ATLIRE				
0			TIUNE			<u>-</u> 1 1	
\vdash	-	M.M. / Z / Cp/Cv				/ / WIKA	
		MANUFACTURER				VV IIVA	
	50	MODEL					









TITLE

30 de 55

REV.: **2**

PRESSURE GAUGE SANITARY

								2
	1	INSTRUMENT TAG NUMBER				PI	-640106	
	2	SERVICE				AIR SUPPL	Y INSTRUMENT	
	3	P&ID				7B-	-Z-0-2-59	
	4	PIPE LINE	EQUIPMENT NUM	1BER	1/2"-CA-71001	14-SS5-NI	-	
IER.	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L	
GENERAL		AREA CLASSIFICATION					CLASSIFIED	
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529	
	-	CERTIFICATES				. ,	ERAL NOTES 6)	
	9					(,	
	<u> </u>	TYPE OF MEASUREMENT			DIRECT			
		MOUNTING			LOCAL			
		DIAL DIAMETER			114 mm			
		SCALE COLOR	BACKGROUND C	OLOR	BLAC		WHITE	 =
		PRECISION	Brononconb o	02011			I NAL VALUE "RANGE"	
		MATERIAL CASE					POLISHED	
Ν̈́		RANGE	RESOLUTION		0 @ 10 b		0,1	
NSTRUMENT		RING TYPE	RING MATERIAL		BAYON	-	304SS	
STRI	_	CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NPT (M) / COOL		вотто	
Ιž		SENSOR TYPE	MATERIAL SENSO		BOURD		316SS	
	_	MATERIAL SOQUETE	MECHANISM MAT		3168		31688	
		BALANCED POINTER	INICOLD A VIOLO IN INVE	LIWE	0100	5	YES	,
		MICROMETRIC ADJUSTMENT O	E ZERO				YES	
		FRONT TYPE	WINDOWS		SOLII	n	GLASS SEG. TRAN	ISD MINI 75%
		FILLING	FLUID		YES		GLYCEF	
\vdash	_	SEAL DIAPHRAGM	LOID		120		REQUIRED	- Control of the Cont
		CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	BY MANUFA		1/2"	
		SEAL FILLING FLUID	I ROOLOG GOMM	2011014	BT W/ANOTA		L	
		WET PART MATERIAL			GENERAL NOTES 4)			
		CAPILLARY LENGTH				· · · · · · · · · · · · · · · · · · ·	REQUIRED	
		CAPILLARY MATERIAL					REQUIRED	
		PULSATION DAMPER					REQUIRED	
ACCESSORIES		MATERIAL					REQUIRED	
SOF		CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQI		NOT REQU	JIRED
CES		SIPHON TUBE					REQUIRED	
AC		MATERIAL					REQUIRED	
			PROCESS CONNI	ECTION	1/2" NP1		BY MANUFAC	TURER
		OVERPRESSURE PROTECTOR				` ,	REQUIRED	
		MATERIAL					REQUIRED	
		CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQI		NOT REQU	JIRED
		TAGGING					I ENERAL NOTES 2)	
		ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	NNECTION	YES	` `	1/2" NPT	(F)
	_	FLUID	PHYSICAL STATU		AIR SUPPLY IN	STRUMENT	GAS	
လ္ခ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	_	-	-	°C
Į Į		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g
NDI		DESIGN PRESSURE	DESIGN TEMPER		-	I	I	
8		VISCOSITY @ OPERATING CON				-	cP	
ING		DENSITY @ OPERATING CONDI					kg/m³	
RAT		SUSPENDED SOLIDS (%)					-	
OPERATING CONDITIONS	_	SOLIDIFIES AT ROOM TEMPERA	ATURE				-	
$\lceil \ \rceil$		M.M. / Z / Cp/Cv			11			
	-	MANUFACTURER					WIKA	
		MODEL						
\Box		<u> </u>						









TITLE

31 de 55

2

REV.:

PRESSURE GAUGE SANITARY

							2	
	1	INSTRUMENT TAG NUMBER			P	I-640107		
	2	SERVICE			WATER LOOP	2, RETURN CHILLED		
	3	P&ID			7B	-Z-0-2-59		
 -	4	PIPE LINE	EQUIPMENT NUM	1BER	1"-CW1R-640128-CS1-CC	-		
ER	5	EQUIPMENT MATERIAL / PIPE			ASTM A	1 270 Gr. TP316L		
GENERAL		AREA CLASSIFICATION				CLASSIFIED		
		ENCLOSURE CLASSIFICATION				ONF. NBR IEC 60529		
		CERTIFICATES			` ,	IERAL NOTES 6)		
	9	OLIVIII IO/VIEO			(022 021	1210121101200)		
	_	TYPE OF MEASUREMENT			DIRECT			
		MOUNTING			LOCAL			
		DIAL DIAMETER				114 mm		
		SCALE COLOR	BACKGROUND C		BLACK	WHITE		
		PRECISION	BACKGROUND C	OLOK		NAL VALUE "RANGE"		
		MATERIAL CASE				S POLISHED		
۲		RANGE	RESOLUTION		0 @ 10 bar-g	0,1		
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET	304SS		
TRI		CONEX. PROCES. / ACESS.		ACITION	1/2" NPT (M) / COOLING ELEMENT			
NS I			CONNECTION PC					
	_	SENSOR TYPE	MATERIAL SENSO		BOURDON	316SS		
		MATERIAL SOQUETE BALANCED POINTER	MECHANISM MAT	ERIAL	316SS	YES 316SS		
		MICROMETRIC ADJUSTMENT O	E ZERO			YES		
		FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRANSP. MIN. 75%		
		FILLING	FLUID		YES	GLYCERIN		
		SEAL DIAPHRAGM	FLOID			REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	BY MANUFACTURER	1/2"		
		SEAL FILLING FLUID	I NOCESS COMM	LOTION		REQUIRED 1/2		
						GENERAL NOTES 4)		
	_	WET PART MATERIAL CAPILLARY LENGTH			,	REQUIRED		
		CAPILLARY MATERIAL				REQUIRED		
		PULSATION DAMPER				REQUIRED		
ACCESSORIES		MATERIAL				REQUIRED		
SOF		CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQUIR	FD	
CES		SIPHON TUBE				REQUIRED		
AC		MATERIAL				REQUIRED		
			PROCESS CONNI	ECTION	1/2" NPT (F)	BY MANUFACT	JRFR	
		OVERPRESSURE PROTECTOR	1	<u> </u>	` '	REQUIRED		
		MATERIAL				REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQUIR	ED	
		TAGGING	ı			ENERAL NOTES 2)		
		ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	NECTION	YES	1/2" NPT (F	·)	
		FLUID	PHYSICAL STATU		WATER	LIQUID		
လ္ခ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C	
Ţ		MINIMUM PRESSURE	NORMAL	MAXIMUM		-	bar-g	
<u>P</u>		DESIGN PRESSURE	DESIGN TEMPER		-	°C	-	
8		VISCOSITY @ OPERATING CON	I IDITION		-	cP		
ING		DENSITY @ OPERATING CONDI			-	kg/m³		
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)				-		
OPE		SOLIDIFIES AT ROOM TEMPERA	ATURE			-		
		M.M. / Z / Cp/Cv				<i>I I</i>		
		MANUFACTURER				WIKA		
	50	MODEL						
-								









TITLE

32 de 55

2

REV.:

PRESSURE GAUGE SANITARY

								-
	1	INSTRUMENT TAG NUMBER			PI-640108			
	2	SERVICE			\	VATER LOOP	2, RETURN CHILLE	:D
	3	P&ID				7B-	-Z-0-2-59	
	4	PIPE LINE	EQUIPMENT NUM	BER	1"-CW1R-6401	27-CS1-CC		-
ER/		EQUIPMENT MATERIAL / PIPE	l			ASTM A2	l 270 Gr. TP316L	
GENERAL	_	AREA CLASSIFICATION					CLASSIFIED	
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 6052	9
	8	CERTIFICATES					ERAL NOTES 6)	
	9	02.11.11.107.11.20				(022 02.1		
	_	TYPE OF MEASUREMENT					DIRECT	
		MOUNTING					OCAL	
		DIAL DIAMETER					14 mm	
		SCALE COLOR	BACKGROUND CO	DLOR	BLAC			HITE
		PRECISION					I NAL VALUE "RANGE	
		MATERIAL CASE					POLISHED	
Ϋ́		RANGE	RESOLUTION		0 @ 10 b		0.	.1
OME		RING TYPE	RING MATERIAL		BAYON	-		4SS
NSTRUMENT		CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M) / COOL			ТОМ
Ξ̈́		SENSOR TYPE	MATERIAL SENSO		BOURD			6SS
	_	MATERIAL SOQUETE	MECHANISM MAT		316S			6SS
		BALANCED POINTER					YES	
		MICROMETRIC ADJUSTMENT O	YES					
		FRONT TYPE	WINDOWS		SOLII)		RANSP. MIN. 75%
		FILLING	FLUID		YES			CERIN
		SEAL DIAPHRAGM				NOT	REQUIRED	
	26	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	BY MANUFA	CTURER	1,	/2"
	27	SEAL FILLING FLUID				NOT	I REQUIRED	
	28	WET PART MATERIAL				316LSS (SEE (GENERAL NOTES 4	!)
	29	CAPILLARY LENGTH				NOT	REQUIRED	
	30	CAPILLARY MATERIAL				NOT	REQUIRED	
<i>(</i> 0	31	PULSATION DAMPER				NOT	REQUIRED	
ACCESSORIES	32	MATERIAL				NOT	REQUIRED	
sso	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQUIRED NOT REQUIRED			QUIRED
SCE	34	SIPHON TUBE				YES USE CO	OOLING ELEMENT	
A	35	MATERIAL				3	16L SS	
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2" NP1	(F)	BY MANUE	FACTURER
	37	OVERPRESSURE PROTECTOR	•				REQUIRED	
	38	MATERIAL				NOT	REQUIRED	
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQI	JIRED	NOT RE	QUIRED
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)	
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	INECTION	YES		1/2" N	IPT (F)
	36	FLUID	PHYSICAL STATU	S	WATE	R	LIG	NUID
SNS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERA	ATURE	-			°C
ပိ	40	VISCOSITY @ OPERATING CON	DITION			-	сР	
Ž		DENSITY @ OPERATING CONDI	TION			-	kg/m³	
ERA	42	SUSPENDED SOLIDS (%)					-	
Р	43	SOLIDIFIES AT ROOM TEMPERA	ATURE				-	
	44	M.M. / Z / Cp/Cv				/	· /	
	49	MANUFACTURER					WIKA	
	50	MODEL						









TITLE

33 de 55

2

REV.:

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER				PI	-640109		
	2	SERVICE				HIGH PRE	SSURE STEAM		
	3	P&ID				7B	-Z-0-2-59		
	4	PIPE LINE	EQUIPMENT NUM	BER	1 1/2"-IS8B-640°	130-CS2-HC	-		
ER	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	I 270 Gr. TP316L		
GENERAL	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) C	ONF. NBR IEC 60529)	
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
	9					(SEE GENERAL NOTES 0)			
	10	TYPE OF MEASUREMENT					DIRECT		
	11	MOUNTING			LOCAL				
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND CO	OLOR	BLAC	K	WH	ITE	
	14	PRECISION	I			1% OF THE FIN	I NAL VALUE "RANGE	"	
1.	15	MATERIAL CASE				30488	POLISHED		
INSTRUMENT	16	RANGE	RESOLUTION		0 @ 10 k	par-g	0,	1	
NO	17	RING TYPE	RING MATERIAL		BAYON	IET	304	SS	
ISTF	18	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M) / COOI	LING ELEMENT	вот	ТОМ	
=	19	SENSOR TYPE	MATERIAL SENSO	DR	BOURD	ON	316	SS	
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316S	S	316	SS	
	21	BALANCED POINTER					YES		
	22	MICROMETRIC ADJUSTMENT O			YES				
	23	FRONT TYPE	WINDOWS		SOLI	D	GLASS SEG. TRA	ANSP. MIN. 75%	
	24	FILLING FLUID			YES		GLYC	ERIN	
	25	SEAL DIAPHRAGM				NOT	REQUIRED		
	26	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	BY MANUFA	CTURER	1/2	2"	
	27	SEAL FILLING FLUID				NOT	REQUIRED		
	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		
I SEE	32	MATERIAL				NOT	REQUIRED		
ACCESSORIES	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ	UIRED	NOT RE	QUIRED	
CCE	34	SIPHON TUBE				YES USE CO	OOLING ELEMENT		
Ā		MATERIAL				3	16L SS		
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2" NP	Γ (F)	BY MANUF	ACTURER	
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQ		NOT RE	QUIRED	
		TAGGING	1			•	ENERAL NOTES 2)		
	_	ELECTRIC CONTACT ADJUSTABLE			YES		1/2" NI		
		FLUID	PHYSICAL STATU		HIGH PRESSU	RE STEAM	STE		
SNC		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
OITI		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-			°C	
1G C		VISCOSITY @ OPERATING CON					cP		
ATIN		DENSITY @ OPERATING CONDI	ITION			-	kg/m³		
PER.		SUSPENDED SOLIDS (%)					-		
Ö		SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
	_	M.M. / Z / Cp/Cv					· /		
		MANUFACTURER					WIKA		
	50	MODEL							









NUMBER: CLIENT NR: PRD-AIC-DSH-046 569-DB7B-AIC-712-004

TITLE

34 de 55 REV.:

PRESSURE GAUGE SANITARY

2 (2)3								2	
	1	INSTRUMENT TAG NUMBER				Р	I-650101	'	
	2	SERVICE				CLE	AN STEAM		
	3	P&ID				7B	-Z-0-2-63		
뒫	4	PIPE LINE	EQUIPMENT NUM	BER	3"-IS8B-65	0137-CS2-HC		-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A	1 270 Gr. TP316L		
3EN	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
	-	ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	9	
	8	CERTIFICATES				, ,	IERAL NOTES 6)		
	9				(SEE SENERAL NOTES 0)				
	_	TYPE OF MEASUREMENT			+	Г	DIRECT		
	-	MOUNTING					LOCAL		
		DIAL DIAMETER			_		114 mm		
		SCALE COLOR	BACKGROUND CO			LACK	I w _E		
		PRECISION	BACKGROUND C	JLOK	D		VVI NAL VALUE "RANGE		
								-	
Þ		MATERIAL CASE	Inconstitution				S POLISHED		
ME		RANGE	RESOLUTION			10 bar-g	0,		
NSTRUMENT		RING TYPE	RING MATERIAL			YONET		ISS	
INS.		CONEX. PROCES. / ACESS.	CONNECTION PO		` '	COOLING ELEMENT	ВОТ		
	-	SENSOR TYPE	MATERIAL SENSO			JRDON		SSS	
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	3	16SS		SSS	
	21	BALANCED POINTER			YES				
	22	MICROMETRIC ADJUSTMENT O			YES				
	23	FRONT TYPE	S	OLID	GLASS SEG. TR	ANSP. MIN. 75%			
	24	FILLING	FLUID		,	YES	GLYC	ERIN	
	25	SEAL DIAPHRAGM				NOT	REQUIRED		
	26	CONNECTION INSTRUMENT	BY MANU	JFACTURER	1/	2"			
	27	SEAL FILLING FLUID				NOT	REQUIRED		
	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		
SSC	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT R	REQUIRED	NOT RE	QUIRED	
SCE	34	SIPHON TUBE	•			YES USE CO	OOLING ELEMENT		
Ă	35	MATERIAL				3	316L SS		
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2"	NPT (F)	BY MANUF	ACTURER	
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT R	REQUIRED	NOT RE	QUIRED	
	46	TAGGING				YES (SEE G	ENERAL NOTES 2)		
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	INECTION	,	YES	1/2" N	PT (F)	
		FLUID	PHYSICAL STATU	IS	S ⁻	TEAM		EAM	
S	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
TO	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
N	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE		-		°C	
8		VISCOSITY @ OPERATING CON	I IDITION			-	cP		
JING		DENSITY @ OPERATING CONDI					kg/m³		
RAT		SUSPENDED SOLIDS (%)					-		
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
J		M.M. / Z / Cp/Cv					· · · · · · · · · · · · · · · · · · ·		
	_	MANUFACTURER					WIKA		
		MODEL							
Щ	J0								









TITLE

35 de 55

PRESSURE GAUGE SANITARY

REV.:

-			S					2
	1	INSTRUMENT TAG NUMBER				PI	-650111	•
	2	SERVICE				CHILL	ED WATER	
	3	P&ID				7B	-Z-0-2-64	
<u>ب</u>	4	PIPE LINE	EQUIPMENT NUM	IBER	1/2"-SFI-65012	29-SS10-HC	_	
GENERAL		EQUIPMENT MATERIAL / PIPE					I 270 Gr. TP316L	
EN EN		AREA CLASSIFICATION					CLASSIFIED	
٥		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)	
_	9	TYPE OF MEASUREMENT			DIDECT			
		TYPE OF MEASUREMENT					DIRECT	
		MOUNTING			LOCAL			
		DIAL DIAMETER			114 mm			
	13	SCALE COLOR	BACKGROUND C	OLOR	BLA	BLACK WHITE		
	14	PRECISION				1% OF THE FIN	NAL VALUE "RANGE"	
_	15	MATERIAL CASE				30488	POLISHED	
INSTRUMENT	16	RANGE	RESOLUTION		0 @ 10	bar-g	0,1	
RG	17	RING TYPE	RING MATERIAL		BAYO	NET	3048	SS
IST	18	CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NPT (M) / COC	LING ELEMENT	вотт	OM
≐	19	SENSOR TYPE	MATERIAL SENSO	OR	BOUR	DON	3168	SS
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	3168	SS	3168	SS
	21	BALANCED POINTER					YES	
	22	MICROMETRIC ADJUSTMENT OF ZERO			YES			
	23	FRONT TYPE	ONT TYPE WINDOWS		SOL	ID	GLASS SEG. TRA	NSP. MIN. 75%
	24	FILLING FLUID			YE	S	GLYCE	RIN
	25	SEAL DIAPHRAGM					YES	
	26	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	BY MANUFA	ACTURER	1/2	"
		SEAL FILLING FLUID					YES	
		WET PART MATERIAL				316LSS (SEE (GENERAL NOTES 4)	
		WET PART MATERIAL CAPILLARY LENGTH				•	REQUIRED	
		CAPILLARY MATERIAL					REQUIRED	
		PULSATION DAMPER					REQUIRED	
ES								
SOR		MATERIAL	Indoneso comin	TOTION	4/0" N		REQUIRED	TDI OLAMD
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	1/2" N		HIGIENIC SEAL	- TRI CLAMP
5	_	SIPHON TUBE					REQUIRED	
`		MATERIAL					REQUIRED I	
		CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	1/2" NF		HIGIENIC SEAL	TRI CLAMP
		OVERPRESSURE PROTECTOR					REQUIRED	
	38	MATERIAL				NOT	REQUIRED	
	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REC	UIRED	NOT REC	UIRED
	46	TAGGING				YES (SEE GI	ENERAL NOTES 2)	
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	NECTION	YE	S	1/2" NP	T (F)
	36	FLUID	PHYSICAL STATU	JS	WAT	ER	LIQU	IID
SN	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
Ξ	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE		-		C.
გ ე	40	VISCOSITY @ OPERATING CON	IDITION			-	cР	
ĭ	41	DENSITY @ OPERATING CONDI	ITION			-	kg/m³	
RA	42	SUSPENDED SOLIDS (%)					-	
OPERATING CONDITIONS	43	SOLIDIFIES AT ROOM TEMPERA	ATURE				-	
-		M.M. / Z / Cp/Cv				/	' /	
\dashv	_	MANUFACTURER			†		WIKA	
		MODEL						
					1			









TITLE

36 de 55

2

REV.:

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER				PI	-650112	•
	2	SERVICE				CLE	AN STEAM	
	3	P&ID				7B-	-Z-0-2-64	
	4	PIPE LINE	EQUIPMENT NUM	BER	2"-SFI-650148	-SS10-HC	_	
ER	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	! 270 Gr. TP316L	
GENERAL	6	AREA CLASSIFICATION				NOT (CLASSIFIED	
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529	
	8	CERTIFICATES					ERAL 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	WHI	TE
	14	PRECISION			1	I% OF THE FIN	I IAL VALUE "RANGE'	'
1.	15	MATERIAL CASE				30488	POLISHED	
INSTRUMENT	16	RANGE	RESOLUTION		0 @ 10 b	ar-g	0,1	
NO	17	RING TYPE	RING MATERIAL		BAYON	ET	304	SS
ISTF	18	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M) / COOL	ING ELEMENT	ВОТТ	ОМ
=	19	SENSOR TYPE	MATERIAL SENSO	DR	BOURD	ON	316	SS
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	3168	S	316	SS
	21	BALANCED POINTER					YES	
	22	MICROMETRIC ADJUSTMENT OF ZERO			YES			
	23	FRONT TYPE	WINDOWS		SOLI)	GLASS SEG. TRANSP. MIN. 75%	
	24	FILLING	FLUID		YES		GLYC	ERIN
	25	SEAL DIAPHRAGM					YES	
	26	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	BY MANUFA	CTURER	1/2)" -
	27	SEAL FILLING FLUID					YES	
	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	
I SEE	32	MATERIAL				NOT	REQUIRED	
ACCESSORIES	33	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2" NF	PT	HIGIENIC SEA	L TRI CLAMP
CCE	34	SIPHON TUBE				NOT	REQUIRED	
Ā		MATERIAL				NOT	REQUIRED	
	36	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2" NPT	(F)	HIGIENIC SEA	L TRI CLAMP
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED	
	38	MATERIAL				NOT	REQUIRED	
	39	CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REQI		NOT REC	QUIRED
		TAGGING	1			` `	ENERAL NOTES 2)	
	_	ELECTRIC CONTACT ADJUSTABLE			YES		1/2" NF	
		FLUID	PHYSICAL STATU		WATE	R	LIQU	
ONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
DITI		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g
NO.		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-			°C
1G C		VISCOSITY @ OPERATING CON					cP	
ATIN		DENSITY @ OPERATING CONDI	IION			-	kg/m³	
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)					-	
ō		SOLIDIFIES AT ROOM TEMPERA	ATURE		-			
	_	M.M. / Z / Cp/Cv			-		\/	
		MANUFACTURER			-		WIKA	
	50	MODEL						









TITLE

SHEET:

PRESSURE GAUGE SANITARY

37 de 55 REV.:

		SORE GAUGE SANTA	-4.7.1			2	
	1	INSTRUMENT TAG NUMBER			l	PI-650113	
	2	SERVICE			CLEAN	STEAM SUPPLY	
		P&ID			7	B-Z-0-2-64	
Ļ		PIPE LINE	EQUIPMENT NUM	MBER	2"-SFI-650106-SS10-HC	-	
ER∕		EQUIPMENT MATERIAL / PIPE				. I A270 Gr. TP316L	
GENERAL	_	AREA CLASSIFICATION				CLASSIFIED	
O		ENCLOSURE CLASSIFICATION				CONF. NBR IEC 60529	
		CERTIFICATES					
	8	CERTIFICATES			(SEE GE	NERAL NOTES 6)	
	9	TYPE OF MEACUPEMENT				DIDECT	
		TYPE OF MEASUREMENT				DIRECT	
		MOUNTING				LOCAL	
		DIAL DIAMETER	I			114 mm	
		SCALE COLOR	BACKGROUND C	OLOR	BLACK	WHITE	
		PRECISION			1% OF THE F	INAL VALUE "RANGE"	
⊢		MATERIAL CASE			3045	SS POLISHED	
NSTRUMENT		RANGE	RESOLUTION		0 @ 10 bar-g	0,1	
RU	17	RING TYPE	RING MATERIAL		BAYONET	304SS	
NST	18	CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NPT (M) / COOLING ELEMEN	воттом	
_	19	SENSOR TYPE	MATERIAL SENS	OR	BOURDON	316SS	
	20	MATERIAL SOQUETE	MECHANISM MAT	ΓERIAL	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	GLYCERIN	
	25	SEAL DIAPHRAGM				YES	
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			BY MANUFACTURER	1/2"	
	27	SEAL FILLING FLUID				YES	
	28	WET PART MATERIAL			316LSS (SEE	GENERAL NOTES 4)	
		CAPILLARY LENGTH			NO-	Γ REQUIRED	
		CAPILLARY MATERIAL				Γ REQUIRED	
		PULSATION DAMPER				T REQUIRED	
ACCESSORIES		MATERIAL				r required	
SOF		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	1/2" NPT	HIGIENIC SEAL TRI CLAMP	
SES		SIPHON TUBE	1 1100200 001111	2011011		r required	
ACC		MATERIAL				r required	
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	1/2" NPT (F)	HIGIENIC SEAL TRI CLAMP	
		OVERPRESSURE PROTECTOR	FROCESS CONN	ECTION	* * * * * * * * * * * * * * * * * * * *	FREQUIRED	
						F REQUIRED	
		MATERIAL CONNECTION INCTRUMENT	IDDOCESS CONN	ECTION			
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED	
		TAGGING	In Fotblow	INFOTION		GENERAL NOTES 2)	
	_	ELECTRIC CONTACT ADJUSTABLE			YES	1/2" NPT (F)	
"		FLUID	PHYSICAL STATU		STEAM	STEAM	
ONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		- °C	
DITI		MINIMUM PRESSURE	NORMAL	MAXIMUM		- bar-g	
NO.		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-	°C	
OPERATING CONDITIONS		VISCOSITY @ OPERATING CON				- cP	
\TI		DENSITY @ OPERATING CONDI	TION			- kg/m³	
ER/	42	SUSPENDED SOLIDS (%)				-	
ОР	43	SOLIDIFIES AT ROOM TEMPERA	ATURE			-	
	44	M.M. / Z / Cp/Cv			11		
	49	MANUFACTURER				WIKA	
	50	MODEL					









TITLE

38 de 55

REV.:

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER				PI	-650114	•	
	2	SERVICE				CLEAN STE	AM CONDENSATE		
	3	P&ID				7B	-Z-0-2-64		
∀	4	PIPE LINE	EQUIPMENT NUM	1BER	1"-SFI-650120	-SS10-HC		-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	1 270 Gr. TP316L		
GEN	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) C	ONF. NBR IEC 6052	9	
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
	9				(SEE SENERAL NOTES S)				
	10	TYPE OF MEASUREMENT					DIRECT		
	11	MOUNTING			LOCAL				
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACK WHITE				
		PRECISION				1% OF THE FIN	I NAL VALUE "RANGE	E"	
	15	MATERIAL CASE				304SS	POLISHED		
≣NT		RANGE	RESOLUTION		0 @ 6 b	ar-q	0,	,1	
INSTRUMENT		RING TYPE	RING MATERIAL		BAYON			4SS	
STR		CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NPT (M) / COOI	LING ELEMENT	ВОТ	TOM	
Z		SENSOR TYPE	MATERIAL SENSO	OR	BOURD		316	SSS	
	20	MATERIAL SOQUETE	MECHANISM MAT		316S		316	SSS	
	21	BALANCED POINTER	1				I YES		
		MICROMETRIC ADJUSTMENT OF ZERO					YES		
		FRONT TYPE	WINDOWS			SOLID		GLASS SEG. TRANSP. MIN. 759	
	24	FILLING FLUID			YES			CERIN	
	_	SEAL DIAPHRAGM			YES				
	_	CONNECTION INSTRUMENT			BY MANUFA	CTURER	1/	/2"	
		SEAL FILLING FLUID					YES		
	28	WET PART MATERIAL				316LSS (SEE (GENERAL NOTES 4	·)	
	_	CAPILLARY LENGTH					REQUIRED	<u>, </u>	
	30	CAPILLARY MATERIAL				NOT	REQUIRED		
	31	PULSATION DAMPER				NOT	REQUIRED		
RIES	32	MATERIAL				NOT	REQUIRED		
SOI	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	1/2" NF	PT	HIGIENIC SEA	AL TRI CLAMP	
ACCESSORIES	34	SIPHON TUBE	1			NOT	I REQUIRED		
AC	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	1/2" NP	Γ (F)	HIGIENIC SEA	AL TRI CLAMP	
		OVERPRESSURE PROTECTOR					I REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQ	UIRED	NOT RE	QUIRED	
	46	TAGGING				YES (SEE GI	ENERAL NOTES 2)		
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CON	NNECTION	YES		1/2" N	IPT (F)	
	36	FLUID	PHYSICAL STATU	JS	STEA	M	STE	EAM	
NS	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
TIOI	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE	-	I		°C	
OPERATING CONDITIONS	40	VISCOSITY @ OPERATING CON	IDITION			-	cP		
IING	41	DENSITY @ OPERATING COND	ITION			-	kg/m³		
.RA	42	SUSPENDED SOLIDS (%)					-		
OPE	_	SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
_		44 M.M. / Z / Cp/Cv			11				
	-	MANUFACTURER			1		WIKA		
	50	MODEL							
_									









TITLE

39 de 55

REV.: **2**

PRESSURE GAUGE SANITARY

							2		
	1	INSTRUMENT TAG NUMBER			Р	I-650102			
	2	SERVICE			CHIL	LED WATER			
	3	P&ID			7E	3-Z-0-2-63			
∀	4	PIPE LINE	EQUIPMENT NUM	IBER	1 1/2"-CW1S-650157-CS1-CC	-			
IER.	5	EQUIPMENT MATERIAL / PIPE			ASTM A	270 Gr. TP316L			
GENERAL	6	AREA CLASSIFICATION			NOT	CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) C	ONF. NBR IEC 60529			
	8	CERTIFICATES			(SEE GEN	IERAL NOTES 6)			
	9								
	10	TYPE OF MEASUREMENT			DIRECT				
	11	MOUNTING				LOCAL			
	12	DIAL DIAMETER				114 mm			
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACK	WHITE	Ξ		
	14	PRECISION			1% OF THE FI	NAL VALUE "RANGE"			
1.	15	MATERIAL CASE			304S	S POLISHED			
ENT	16	RANGE	RESOLUTION		0 @ 6 bar-g	0,1			
NSTRUMENT	17	RING TYPE	RING MATERIAL		BAYONET	304SS	3		
ISTF	18	CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	1/2" NPT (M) / COOLING ELEMENT	вотто	М		
=	19	SENSOR TYPE	MATERIAL SENSO	DR	BOURDON	316SS	3		
	20	MATERIAL SOQUETE	MECHANISM MAT	ERIAL	316SS	316SS	3		
	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	GLYCEF	RIN		
	25	SEAL DIAPHRAGM			NOT	REQUIRED			
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			BY MANUFACTURER	1/2"			
	27	SEAL FILLING FLUID			NOT	REQUIRED			
	28				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			
SSC	33	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQU	JIRED		
SCE	34	SIPHON TUBE			NOT	REQUIRED			
¥	35	MATERIAL			NOT	REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	1/2" NPT (F)	BY MANUFAC	TURER		
	37	OVERPRESSURE PROTECTOR			NOT	REQUIRED			
	38	MATERIAL			NOT	REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNI	ECTION	NOT REQUIRED	NOT REQU	JIRED		
		TAGGING	•		,	ENERAL NOTES 2)			
		ELECTRIC CONTACT ADJUSTABLE			YES	1/2" NPT	•		
		FLUID	PHYSICAL STATU		WATER	LIQUI			
SNC		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C		
OITI		MINIMUM PRESSURE	NORMAL	MAXIMUM		-	bar-g		
NOX		DESIGN PRESSURE	DESIGN TEMPER	ATURE	-	°C	;		
16 0		VISCOSITY @ OPERATING CON				· cP			
ATIN		DENSITY @ OPERATING CONDI	IION		•	· kg/m³			
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)				-			
Ö		SOLIDIFIES AT ROOM TEMPERA	ATURE		-				
\vdash		M.M. / Z / Cp/Cv			11				
		MANUFACTURER				WIKA			
	50	MODEL							









TITLE

40 de 55

PRESSURE GAUGE SANITARY

REV.: **2**

								2		
	1	INSTRUMENT TAG NUMBER				PI	-650103	•		
İ	2	SERVICE				CHILL	ED WATER			
ľ	3	P&ID				7B-	-Z-0-2-63			
ا ہے	4	PIPE LINE	EQUIPMENT NUM	BER	1 1/2"-CW1R-6	550158-CS1-CC	-			
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L			
E E	6	AREA CLASSIFICATION				NOT (CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
ŀ	8	CERTIFICATES				(SEE GENERAL NOTES 6)				
ŀ	9									
_	_	TYPE OF MEASUREMENT					DIRECT			
ŀ		MOUNTING					OCAL			
ŀ		DIAL DIAMETER					14 mm			
ŀ		SCALE COLOR	BACKGROUND CO	OLOR	BLA	ACK	wh	ITF		
ŀ		PRECISION	BROKOKOKO OK	SLOIK		-	 VALUE "RANGE			
ŀ		MATERIAL CASE					POLISHED	•		
F		RANGE	RESOLUTION		0.00		0,	1		
NSTRUMENT		RING TYPE	RING MATERIAL			S bar-g ONET	304			
IR.		CONEX. PROCES. / ACESS.	CONNECTION PO	CITION		OOLING ELEMENT				
S					` '		BOT			
		SENSOR TYPE	MATERIAL SENSO			RDON 6SS	316			
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	310	055		33		
ŀ		BALANCED POINTER					YES			
ŀ				SOLID		YES				
ŀ		FRONT TYPE WINDOWS FILLING FLUID					GLASS SEG. TR			
	_		FLUID		YI	ES	GLYC	EKIN		
ŀ		SEAL DIAPHRAGM CONNECTION INSTRUMENT PROCESS CONNECTION			DV MANUE		REQUIRED	011		
ŀ					BY MANUE	FACTURER	1/2	2"		
ŀ		SEAL FILLING FLUID					REQUIRED			
ŀ		WET PART MATERIAL				•	GENERAL NOTES 4)		
ŀ		CAPILLARY LENGTH					REQUIRED			
ŀ		CAPILLARY MATERIAL					REQUIRED			
ES		PULSATION DAMPER					REQUIRED			
ACCESSORIES		MATERIAL	l				REQUIRED			
ESS		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT RE	QUIRED	NOT RE	QUIRED		
8		SIPHON TUBE					REQUIRED			
`		MATERIAL					REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	1/2" N	IPT (F)	BY MANUF	ACTURER		
		OVERPRESSURE PROTECTOR					REQUIRED			
		MATERIAL			NOT REQUIRED					
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT RE	QUIRED	NOT RE	QUIRED		
		TAGGING				•	ENERAL NOTES 2)			
_	_	ELECTRIC CONTACT ADJUSTABLE			-	ES	1/2" N			
		FLUID	PHYSICAL STATU		WA	TER	LIQ			
SNO		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		-	°C		
Ĕ		MINIMUM PRESSURE	NORMAL	MAXIMUM	-		-	bar-g		
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	ATURE		-		°C		
ည ပို		VISCOSITY @ OPERATING CON					cP			
₽		DENSITY @ OPERATING CONDI	TION			-	kg/m³			
쮰		SUSPENDED SOLIDS (%)					-			
ъ Г		SOLIDIFIES AT ROOM TEMPERA	ATURE				-			
	_	M.M. / Z / Cp/Cv					1			
		MANUFACTURER					WIKA			
		MODEL			Ī					









TITLE

41 de 55 REV.:

PRESSURE GAUGE SANITARY

2

							2	
	1	INSTRUMENT TAG NUMBER			F	I-650104		
	2	SERVICE			IN	STR. AIR		
	3	P&ID			76	3-Z-0-2-63		
₫	4	PIPE LINE	EQUIPMENT NUM	MBER	1/2"-CA-650159-SS5-NI	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE			ASTM A	270 Gr. TP316L		
GE	6	AREA CLASSIFICATION			NOT	CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES			(SEE GEI	NERAL NOTES 6)		
	9							
	10	TYPE OF MEASUREMENT				DIRECT		
	11	MOUNTING				LOCAL		
	12	DIAL DIAMETER				114 mm		
	13	SCALE COLOR	BACKGROUND C	OLOR	BLACK	WHIT	E	
	14	PRECISION			1% OF THE FI	NAL VALUE "RANGE"		
_ [15	MATERIAL CASE			304S	S POLISHED		
INSTRUMENT	16	RANGE	RESOLUTION		0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL		BAYONET	304S	3	
NST	18	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NPT (M) / COOLING ELEMENT	ВОТТО	DM	
-	19	SENSOR TYPE	MATERIAL SENS	OR	BOURDON	316S	3	
	20	MATERIAL SOQUETE	MECHANISM MA	TERIAL	316SS	316S	3	
	21	BALANCED POINTER				YES		
		MICROMETRIC ADJUSTMENT O	OF ZERO			YES		
		FRONT TYPE WINDOWS		SOLID	GLASS SEG. TRAN	ISP. MIN. 75%		
_		FILLING	FLUID		YES	GLYCE	RIN	
	25	SEAL DIAPHRAGM			NOT	REQUIRED		
	26	CONNECTION INSTRUMENT PROCESS CONNECTION SEAL FILLING FILLID		ECTION	BY MANUFACTURER	1/2"		
		SEAL FILLING FLUID			NOT	REQUIRED		
		WET PART MATERIAL			316LSS (SEE	GENERAL NOTES 4)		
	-	CAPILLARY LENGTH				REQUIRED		
		CAPILLARY MATERIAL			NOT REQUIRED NOT REQUIRED			
ES		PULSATION DAMPER						
<u>R</u>		MATERIAL	I			REQUIRED		
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQI	JIRED	
ACC		SIPHON TUBE				REQUIRED		
`		MATERIAL	DDOOFOO OONN	FOTION		REQUIRED	OTUDED	
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	1/2" NPT (F)	BY MANUFA	JIUKEK	
	_	OVERPRESSURE PROTECTOR				REQUIRED		
		MATERIAL CONNECTION INSTRUMENT	DBOCESS CONN	ECTION		REQUIRED NOT REQU	IIDED	
		CONNECTION INSTRUMENT TAGGING	PROCESS CONN	ECTION	NOT REQUIRED	ENERAL NOTES 2)	JINED	
		ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL COL	NNECTION	YES	1/2" NP1	(F)	
\dashv	-	FLUID	PHYSICAL STATU		AIR	GAS		
္ည		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C	
<u></u>		MINIMUM PRESSURE	NORMAL	MAXIMUM		_	bar-g	
<u> </u>		DESIGN PRESSURE	DESIGN TEMPER		-			
OPERATING CONDITIONS		VISCOSITY @ OPERATING CON				· cP		
NG ING		DENSITY @ OPERATING CONDI				- kg/m³		
RAT		SUSPENDED SOLIDS (%)	-			-		
밁		SOLIDIFIES AT ROOM TEMPERA	ATURE			-		
~		M.M. / Z / Cp/Cv				<i>I I</i>		
\dashv		MANUFACTURER			WIKA			
		MANUFACTURER MODEL			-			









TITLE

42 de 55

2

REV.:

PRESSURE GAUGE SANITARY

								2	
	1	INSTRUMENT TAG NUMBER				PI	-700006		
	2	SERVICE				CLEAN CO	MPRESSED AIR		
	3	P&ID				7B-	-Z-0-2-71		
Æ	4	PIPE LINE	EQUIPMENT NUM	MBER	2"-CA-840011	5-SS5-NI	-		
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				L	OCAL		
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND C	OLOR	BLAC	K	WHIT	E	
	14	PRECISION			1	I% OF THE FIN	I NAL VALUE "RANGE"		
1.	15	MATERIAL CASE				304SS	POLISHED		
ENT	16	RANGE	RESOLUTION		0 @ 6.0 b	par-g	0,1		
NSTRUMENT	17	RING TYPE	RING MATERIAL		BAYON	ET	304S	S	
STF	18	CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT	· (M)	ВОТТС)M	
=	19	SENSOR TYPE	MATERIAL SENS	OR	BOURD		316SS	 S	
	20	MATERIAL SOQUETE	MECHANISM MA	ΓERIAL	316SS	S	316SS	S	
	21	BALANCED POINTER					YES		
	22	MICROMETRIC ADJUSTMENT O	F ZERO				YES		
	23	FRONT TYPE	WINDOWS		SOLID		GLASS SEG. TRAN	ISP. MIN. 75%	
	24	FILLING	YES		GLYCE	RIN			
	25	SEAL DIAPHRAGM			YES	IN AISI 316L (S	SEE GENERAL NOTES	3 4)	
	26	CONNECTION INSTRUMENT	ECTION	BY MANUFAC	CTURER	11/2"-TRI-CLAMF	P-ASME BPE		
	27				MEDICA	L WHITE MINE	: ERAL OIL (FDA-APPR(OVED)	
	28					316LSS (SEE 0	GENERAL NOTES 4)		
	29	CAPILLARY LENGTH				NOT	REQUIRED		
	30	CAPILLARY MATERIAL				NOT	REQUIRED		
ω l	31	PULSATION DAMPER			NOT REQUIRED				
ACCESSORIES	32	MATERIAL				NOT	REQUIRED		
SSO	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQU	JIRED	NOT REQU	JIRED	
CE	34	SIPHON TUBE				NOT	REQUIRED		
A	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQU	JIRED	NOT REQU	JIRED	
	37	OVERPRESSURE PROTECTOR	-			NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQU	JIRED	NOT REQU	JIRED	
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)		
	40								
	36	FLUID	PHYSICAL STATI	JS	CLEAN	AIR	AIR		
SNC	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	30	°C	
)TIC		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	6	bar-g	
ONE ONE	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE	-		30 °C	;	
Ō	40	VISCOSITY @ OPERATING CON	IDITION			-	cP		
\TIN	41	DENSITY @ OPERATING COND	TION			-	kg/m³		
OPERATING CONDITIONS	42	SUSPENDED SOLIDS (%)					-		
O	43	SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
		M.M. / Z / Cp/Cv					1		
		MANUFACTURER					WIKA		
	50	MODEL							









TITLE

43 de 55

2

REV.:

PRESSURE GAUGE SANITARY

								2	
	1	INSTRUMENT TAG NUMBER				PI	-700007		
	2	SERVICE				CLEAN CO	MPRESSED AIR		
	3	P&ID				7B-	-Z-0-2-71		
∀	4	PIPE LINE	EQUIPMENT NUM	MBER	2"-CA-84001	15-SS5-NI	-		
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				L	OCAL		
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND C	COLOR	BLAC	CK	WHIT	E	
	14	PRECISION	<u> </u>			1% OF THE FIN	I NAL VALUE "RANGE"		
1. 1	15	MATERIAL CASE				304SS	POLISHED		
	16	RANGE	RESOLUTION		0 @ 6.0	bar-g	0,1		
NSTRUMENT	17	RING TYPE	RING MATERIAL		BAYON	NET	304\$	S	
ISTE	18	CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NP	Г (М)	ВОТТС	DM	
=	19	SENSOR TYPE	MATERIAL SENS	OR	BOURE	OON	316S	3	
	20	MATERIAL SOQUETE	MECHANISM MA	TERIAL	316S	S	316S	S	
	21	BALANCED POINTER					YES		
	22	MICROMETRIC ADJUSTMENT O	F ZERO				YES		
	23	FRONT TYPE	WINDOWS		SOLID		GLASS SEG. TRAN	ISP. MIN. 75%	
	24	FILLING	YES	3	GLYCE	RIN			
	25	SEAL DIAPHRAGM			YES	IN AISI 316L (S	SEE GENERAL NOTES	3 4)	
	26	CONNECTION INSTRUMENT	BY MANUFA	CTURER	11/2"-TRI-CLAMF	-ASME BPE			
	27	SEAL FILLING FLUID			MEDICA	AL WHITE MINE	ERAL OIL (FDA-APPRO	OVED)	
	28					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	IECTION	NOT REQ	UIRED	NOT REQU	JIRED	
SCE	34	SIPHON TUBE	•			NOT	REQUIRED		
A	35	MATERIAL				NOT	REQUIRED		
	36	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQ	UIRED	NOT REQU	JIRED	
	37	OVERPRESSURE PROTECTOR				NOT	REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
	39	CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REQ	UIRED	NOT REQU	JIRED	
	46	TAGGING				YES (SEE GE	ENERAL NOTES 2)		
Ш	40								
	36	FLUID	PHYSICAL STATI	US	CLEAN	AIR	AIR		
SNC	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	30	°C	
H		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	6	bar-g	
NO.		DESIGN PRESSURE	DESIGN TEMPER	RATURE	-	•	30 °C	;	
] []		VISCOSITY @ OPERATING CON				-	сР		
L		DENSITY @ OPERATING COND	ITION			-	kg/m³		
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)					-		
占		SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
		M.M. / Z / Cp/Cv			11				
		MANUFACTURER					WIKA		
	50	MODEL							









TITLE

SHEET: 44 de 55 REV.:

PRESSURE GAUGE SANITARY

2

								2	
	1	INSTRUMENT TAG NUMBER				PI	-700008		
	2	SERVICE				CLEAN CC	MPRESSED AIR		
	3	P&ID				7B-	-Z-0-2-71		
F	4	PIPE LINE	EQUIPMENT NUI	MBER	2"-CA-84001	15-SS5-NI	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE	<u> </u>			ASTM A2	270 Gr. TP316L		
GEN	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
		ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529		
	8	CERTIFICATES					ERAL NOTES 6)		
	9	02.11.11071120			(SEE SENERAL NOTES 0)				
	_	TYPE OF MEASUREMENT				г	DIRECT		
		MOUNTING					OCAL		
		DIAL DIAMETER			114 mm				
		SCALE COLOR	BACKGROUND (OLOP	BLACK WHITE				
		PRECISION	BACKGROUND C	JOLOR	BLA		IAL VALUE "RANGE"		
Þ		MATERIAL CASE	l====				POLISHED		
NSTRUMENT		RANGE	RESOLUTION		0 @ 6.0		0,1		
IRI	_	RING TYPE	RING MATERIAL		BAYO		3048		
INS	18	CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NF	T (M)	ВОТТ	ОМ	
	19	SENSOR TYPE	MATERIAL SENS	OR	BOUR	DON	3169	SS	
	20	MATERIAL SOQUETE	MECHANISM MA	TERIAL	316	SS	3169	SS	
	21	BALANCED POINTER					YES		
	22	MICROMETRIC ADJUSTMENT O	F ZERO				YES		
	23	FRONT TYPE	WINDOWS		SOL	SOLID		NSP. MIN. 75%	
	24	FILLING	YE	S	GLYCI	ERIN			
	25	SEAL DIAPHRAGM			YES	S IN AISI 316L (SEE GENERAL NOTE	S 4)	
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			BY MANUF	ACTURER	11/2"-TRI-CLAM	IP-ASME BPE	
	27	SEAL FILLING FLUID			MEDIC	AL WHITE MINE	ERAL OIL (FDA-APPF	ROVED)	
	28					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	IECTION	NOT REC		NOT REC	DUIRED	
SES		SIPHON TUBE	1				REQUIRED		
AC		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REC		NOT REC	MIRED	
		OVERPRESSURE PROTECTOR	I 32.03 00/NIV		1,011,00		REQUIRED		
		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	IECTION	NOT REC		NOT REC	UIIRED	
		TAGGING	I. NOOLOO CONN		NOTINE		ENERAL NOTES 2)	KONLD	
		7.00110				TEO (OLL GI			
\vdash	40	FLUID	PHYSICAL STAT	IIS	CLEAN	I AIR	AIF	· · · · · · · · · · · · · · · · · · ·	
l s			NORMAL			N AIR		°C	
NO.		MINIMUM TEMPERATURE		MAXIMUM	-	-	30		
DIT		MINIMUM PRESSURE	NORMAL	MAXIMUM	<u> </u>		6 30	bar-g	
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPER	VATURE		-	•	C	
9		VISCOSITY @ OPERATING CON					cP		
ATI		DENSITY @ OPERATING COND	ITION			-	kg/m³		
ZER.	_	SUSPENDED SOLIDS (%)					-		
ğ		SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
Щ	-	M.M. / Z / Cp/Cv			11				
	49	MANUFACTURER			WIKA				
	50	MODEL							









TITLE

45 de 55

2

REV.:

PRESSURE GAUGE SANITARY

						2			
	1	INSTRUMENT TAG NUMBER				PI-700031			
	2	SERVICE			CLEAN COMPRESSED AIR	R TO MAB LOAD FILT. SKID CFIL-33	300		
	3	P&ID				7B-Z-0-2-71			
	4	PIPE LINE	EQUIPMENT NUM	MBER	1/2"-CAP-700014-SS10-NI	-			
ER/	5	EQUIPMENT MATERIAL / PIPE	l		ASTM	A270 Gr. TP316L			
GENERAL		AREA CLASSIFICATION				T CLASSIFIED			
		ENCLOSURE CLASSIFICATION				CONF. NBR IEC 60529			
		CERTIFICATES			` ′	ENERAL NOTES 6)			
	9	OLIVII IO/VIEG			(
	_	TYPE OF MEASUREMENT				DIRECT			
		MOUNTING				LOCAL			
		DIAL DIAMETER				114 mm			
		SCALE COLOR	BACKGROUND C	OI OP	BLACK	WHITE			
		PRECISION	BACKGROOND	OLOIT		FINAL VALUE "RANGE"			
		MATERIAL CASE				SS POLISHED			
F		RANGE	RESOLUTION		0 @ 6.0 bar-g	0,1			
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET	304SS			
STR		CONEX. PROCES. / ACESS.	CONNECTION PO	NOITION	1/2" NPT (M)	BOTTOM			
N N		SENSOR TYPE	MATERIAL SENS		BOURDON	316SS			
	_	MATERIAL SOQUETE	MECHANISM MA		316SS	316SS			
		BALANCED POINTER	INICO IANION WA	TEINAL	31000	YES			
		MICROMETRIC ADJUSTMENT O	F 7FRO			YES			
		FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRANSP. MIN. 7	75%		
		FILLING	FLUID		YES	GLYCERIN	1070		
		SEAL DIAPHRAGM	1 2015			(SEE GENERAL NOTES 4)			
		CONNECTION INSTRUMENT PROCESS CONNECTION			BY MANUFACTURER	11/2"-TRI-CLAMP-ASME BF	PF .		
						INERAL OIL (FDA-APPROVED)			
						E GENERAL NOTES 4)			
		CAPILLARY LENGTH			,	OT REQUIRED			
		CAPILLARY MATERIAL				OT REQUIRED			
	31	PULSATION DAMPER			NOT REQUIRED				
ACCESSORIES	32	MATERIAL			NO	OT REQUIRED			
SSO	33	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED			
CES	34	SIPHON TUBE			NO	I DT REQUIRED			
AC	35	MATERIAL			NO	OT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED			
		OVERPRESSURE PROTECTOR	1		NO	T REQUIRED			
	38	MATERIAL			NO	T REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED			
	46	TAGGING	-		YES (SEE	GENERAL NOTES 2)			
	40								
	36	FLUID	PHYSICAL STATI	JS	CLEAN AIR	AIR			
SN	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM		- °C			
TIOL I	38	MINIMUM PRESSURE	NORMAL	MAXIMUM		- bar-g			
ONC	39	DESIGN PRESSURE	DESIGN TEMPER	RATURE	-	°C			
၂၁	40	VISCOSITY @ OPERATING CON	IDITION			- cP			
ŇL	41	DENSITY @ OPERATING COND	ITION			- kg/m³			
OPERATING CONDITIONS	42	SUSPENDED SOLIDS (%)				-			
ОР	43	SOLIDIFIES AT ROOM TEMPERA	ATURE			-			
	44	M.M. / Z / Cp/Cv			11				
	49	MANUFACTURER				WIKA			
	50	MODEL							









TITLE

46 de 55

2

REV.:

PRESSURE GAUGE SANITARY

	_								
	1	INSTRUMENT TAG NUMBER				PI	-700033		
	2	SERVICE			FOR CC	LUMN PACKIN	G CLEAN COMPRES	SSED AIR	
	3	P&ID				7B-	-Z-0-2-81		
₹	4	PIPE LINE	EQUIPMENT NUM	BER	1/2"-CAP-7000	006-SS10-NI		-	
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	70 Gr. TP316L		
GE	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION				IP 65 (MÍN.) CO	ONF. NBR IEC 60529	9	
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
	9								
	10	TYPE OF MEASUREMENT					DIRECT		
	11	MOUNTING				L	OCAL		
	12	DIAL DIAMETER				1	14 mm		
	13	SCALE COLOR	BACKGROUND CO	OLOR	BLAG	CK	WH	IITE	
	14	PRECISION			1% OF THE FINAL VALUE "RANG			Ξ"	
_	15	MATERIAL CASE				304SS	POLISHED		
AEN	16	RANGE	RESOLUTION		0 @ 6.0	bar-g	0,	1	
NSTRUMENT	17	RING TYPE	RING MATERIAL		BAYO	NET	304	ISS	
NST	18	CONEX. PROCES. / ACESS.	CONNECTION PO	SITION	1/2" NP	T (M)	ВОТ	ТОМ	
	19	SENSOR TYPE	MATERIAL SENSO	DR	BOURI	DON	316	SSS	
		MATERIAL SOQUETE	MECHANISM MAT	ERIAL	3168	SS	316	SSS	
		BALANCED POINTER					YES		
		MICROMETRIC ADJUSTMENT O					YES		
		FRONT TYPE WINDOWS		SOLID		GLASS SEG. TRANSP. MIN. 75%			
		FILLING	FLUID		YE			CERIN	
	_	SEAL DIAPHRAGM CONNECTION INSTRUMENT PROCESS CONNECTION					SEE GENERAL NOT		
		CONNECTION INSTRUMENT PROCESS CONNECTION SEAL FILLING FILLID			BY MANUFA			MP-ASME BPE	
		SEAL FILLING FLUID			MEDIC		ERAL OIL (FDA-APP	· · · · · · · · · · · · · · · · · · ·	
	_	WET PART MATERIAL				•	GENERAL NOTES 4)	
	_	CAPILLARY LENGTH					REQUIRED		
		CAPILLARY MATERIAL PULSATION DAMPER					REQUIRED		
ES		MATERIAL					REQUIRED		
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REC		NOT RE	OLUBED	
ES		SIPHON TUBE	FROCESS CONNE	ECTION	NOTREC		REQUIRED	QUINED	
ACC		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REC		NOT RE	OLUBED	
		OVERPRESSURE PROTECTOR	I NOOLOO CONNE		NOTINE		REQUIRED	≪OII (ED	
		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REC		NOT RE	QUIRED	
		TAGGING	1	-			ENERAL NOTES 2)		
	40					,	,		
		FLUID	PHYSICAL STATU	IS	CLEAN	I AIR	A	IR .	
န		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	30	°C	
101	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	6	bar-g	
OPERATING CONDITIONS	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE		-		°C	
100	40	VISCOSITY @ OPERATING CON	IDITION			-	cP		
TING	41	DENSITY @ OPERATING CONDI	ITION			-	kg/m³		
-RA	42	SUSPENDED SOLIDS (%)					-		
OPE	43	SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
	44	M.M. / Z / Cp/Cv				/	1		
	49	MANUFACTURER					WIKA		
	50	MODEL							









TITLE

SHEET

47 de 55 REV.:

2

PRESSURE GAUGE SANITARY

								2	
	1	INSTRUMENT TAG NUMBER				PI	-700034		
	2	SERVICE			CI	LEAN COMPRE	SSED AIR TO HEADE	R	
	3	P&ID				7B-	-Z-0-2-71		
₹	4	PIPE LINE	EQUIPMENT NUM	MBER	2"-CAP-7000	19-SS10-NI	-		
GENERAL	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	270 Gr. TP316L		
GEN	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			1	IP 65 (MÍN.) CO	ONF. NBR IEC 60529		
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
	9				1		,		
	10	TYPE OF MEASUREMENT			1		DIRECT		
	11	MOUNTING			LOCAL				
	12	DIAL DIAMETER			114 mm				
		SCALE COLOR	BACKGROUND C	OLOR	BLACK WHITE				
	-	PRECISION	1		1% OF THE FINAL VALUE "RANGE"				
		MATERIAL CASE			304SS POLISHED				
H		RANGE	RESOLUTION		0 @ 6.0		0,1		
NSTRUMENT	-	RING TYPE	RING MATERIAL		BAYO		304S	S	
STR		CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NP		ВОТТО		
ĮΞ		SENSOR TYPE	MATERIAL SENS		BOURI		316S		
		MATERIAL SOQUETE	MECHANISM MA		3165		316S		
	-	BALANCED POINTER	1		1		YES		
		MICROMETRIC ADJUSTMENT O	F ZERO				YES		
		FRONT TYPE	windows		SOLID		GLASS SEG. TRANSP. MIN. 75%		
		FILLING	YES		GLYCE	-			
\vdash		SEAL DIAPHRAGM			SEE GENERAL NOTES				
		CONNECTION INSTRUMENT PROCESS CONNECTION			BY MANUFA		11/2"-TRI-CLAM		
		SEAL FILLING FLUID					ERAL OIL (FDA-APPR		
		WET PART MATERIAL			1		GENERAL NOTES 4)	,	
	_	CAPILLARY LENGTH			1	•	REQUIRED		
		CAPILLARY MATERIAL			1		REQUIRED		
		PULSATION DAMPER			1		REQUIRED		
NES	_	MATERIAL					REQUIRED		
SSO		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REC	UIRED	NOT REQ	JIRED	
ACCESSORIES		SIPHON TUBE	1		1		REQUIRED		
AC		MATERIAL			1	NOT	REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REC	UIRED	NOT REQ	JIRED	
		OVERPRESSURE PROTECTOR	1				I REQUIRED		
	38	MATERIAL				NOT	REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REC	UIRED	NOT REQ	JIRED	
	46	TAGGING	1		1	YES (SEE GI	ENERAL NOTES 2)		
	40						·		
	36	FLUID	PHYSICAL STATU	JS	CLEAN	I AIR	AIR		
SZ	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
TIOI	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
OPERATING CONDITIONS	39	DESIGN PRESSURE	DESIGN TEMPER	ATURE		-	°(2	
100	40	VISCOSITY @ OPERATING CON	I IDITION			-	cP		
ING	41	DENSITY @ OPERATING CONDI	ITION			-	kg/m³		
RA		SUSPENDED SOLIDS (%)					-		
JPE		SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
$\lceil \ \rceil$		M.M. / Z / Cp/Cv			1				
\Box		MANUFACTURER			WIKA				
		MODEL			1				
\blacksquare					<u> </u>				









TITLE

48 de 55

REV.:

PRESSURE GAUGE SANITARY

VIII - 1.537-1.14								2	
	1	INSTRUMENT TAG NUMBER				P	-700035		
	2	SERVICE			CLEAN	COMPRESSED	AIR SUPPLY FRON I	HEADER	
	3	P&ID				7B	-Z-0-2-71		
ᅱ	4	PIPE LINE	EQUIPMENT NUM	IBER	2"-CAP-7000	15-SS10-NI	-		
ER	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	1 270 Gr. TP316L		
GENERAL	6	AREA CLASSIFICATION				NOT (CLASSIFIED		
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
		CERTIFICATES					IERAL NOTES 6)		
	9	02.1111.1071.120							
	_	TYPE OF MEASUREMENT				Г	DIRECT		
		MOUNTING					LOCAL		
		DIAL DIAMETER			114 mm				
		SCALE COLOR	BACKGROUND CO		BLA		l whi	TE	
		PRECISION	BACKCINOCIVE C	<u> </u>	BEA				
		MATERIAL CASE					S POLISHED		
١		RANGE	RESOLUTION		0 @ 6.0		0,1		
NSTRUMENT		RING TYPE	RING MATERIAL		BAYO		3045		
TRI		CONEX. PROCES. / ACESS.	CONNECTION PO	MOITIS	1/2" NF		BOTT		
l ≅		SENSOR TYPE	MATERIAL SENSO		BOUR		3169	-	
	_	MATERIAL SOQUETE	MECHANISM MAT		316		3165		
		BALANCED POINTER	INIECI IANISINI INIA I	ENIAL	310		YES		
			E 7EBO						
		MICROMETRIC ADJUSTMENT OF ZERO FRONT TYPE WINDOWS			YES SOLID GLASS		1	S SEG. TRANSP. MIN. 75%	
				YE					
\vdash		FILLING SEAL DIAPHRAGM	FLUID				GLYCE		
		CONNECTION INSTRUMENT PROCESS CONNECTION				•	SEE GENERAL NOTE		
					BY MANUF		11/2"-TRI-CLAM		
		SEAL FILLING FLUID WET PART MATERIAL			MEDIC		ERAL OIL (FDA-APPF	(OVED)	
		CAPILLARY LENGTH				•	GENERAL NOTES 4) REQUIRED		
		CAPILLARY MATERIAL					REQUIRED		
		PULSATION DAMPER					REQUIRED		
IES		MATERIAL			NOT REQUIRED				
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REC		NOT REG	N IIDED	
ES		SIPHON TUBE	FROCESS CONN	ECTION	NOTRE		REQUIRED	KOIKED	
ACC		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REC		NOT REC	N IIDED	
		OVERPRESSURE PROTECTOR	I NOCESS CONN	2011014	NOTICE		REQUIRED	KOIKED	
		MATERIAL					REQUIRED		
		CONNECTION INSTRUMENT	PROCESS CONNE	-CTION	NOT REC		NOT REG	UIRED	
	46	TAGGING	1. 1.00230 0014141		NOT THE		NOT KEG ENERAL NOTES 2)		
	40					123 (022 0)	(1,01202)		
\vdash		FLUID	PHYSICAL STATU	IS	CLEAN	N AIR	AIF	₹	
<u>S</u>			NORMAL	MAXIMUM	-	1 .	_	°C	
		MINIMUM PRESSURE	NORMAL	MAXIMUM	_	-	_	bar-g	
		DESIGN PRESSURE	DESIGN TEMPER	l .		-	ļ .	°C	
8		VISCOSITY @ OPERATING CON					CP		
N.G		DENSITY @ OPERATING CONDI					kg/m³		
RAT		SUSPENDED SOLIDS (%)					-		
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE				-		
		M.M. / Z / Cp/Cv							
		MANUFACTURER			/ / WIKA				
		MODEL							
\Box					I .				









TITLE

49 de 55

REV.:

PRESSURE GAUGE SANITARY

	1	INSTRUMENT TAG NUMBER			PI-700036			
	2	SERVICE	CLEAN COMPRESSED AIR SUPPLY FRON HEADER					
	3	P&ID			7B-Z-0-2-71			
GENERAL	4	PIPE LINE EQUIPMENT NUMBER			1"-CAP-7000	1"-CAP-700005-SS10-NI -		
	5	EQUIPMENT MATERIAL / PIPE				ASTM A2	1 270 Gr. TP316L	
	6	AREA CLASSIFICATION				NOT (CLASSIFIED	
		ENCLOSURE CLASSIFICATION					ONF. NBR IEC 60529	
		CERTIFICATES					IERAL NOTES 6)	
	9	02.1111.1071.120				(522 52.	2.0.2.1.0.2.00,	
	_	TYPE OF MEASUREMENT				Г	DIRECT	
		MOUNTING					LOCAL	
		DIAL DIAMETER					114 mm	
		SCALE COLOR	BACKGROUND CO		BLA		l whi	TE
		PRECISION	BACKCINOCIVE C	SLOIK	BL/V			
		MATERIAL CASE					S POLISHED	
Ϋ́		RANGE	RESOLUTION		0 @ 6.0		0,1	
NSTRUMENT		RING TYPE	RING MATERIAL		BAYO		3049	
TRI		CONEX. PROCES. / ACESS.	CONNECTION PO	CITION	1/2" NP		ВОТТ	
SN		SENSOR TYPE	MATERIAL SENSO		BOUR	. ,	3169	-
	_	MATERIAL SOQUETE	MECHANISM MAT		3168		3168	
		BALANCED POINTER	INIECI IANISINI INIA I	ENIAL	3100		YES	
		MICROMETRIC ADJUSTMENT O	YES					
		FRONT TYPE			1	TDANIOD MIN 7501		
			WINDOWS FLUID				TRANSP. MIN. 75%	
		FILLING	YES GLYCERIN YES IN AISI 316L (SEE GENERAL NOTES 4)					
		SEAL DIAPHRAGM		•	1			
		CONNECTION INSTRUMENT SEAL FILLING FLUID	BY MANUFA		11/2"-TRI-CLAN			
		WET PART MATERIAL	MEDICAL WHITE MINERAL OIL (FDA-APPROVED) 316LSS (SEE GENERAL NOTES 4)					
		CAPILLARY LENGTH				•	REQUIRED	
		CAPILLARY MATERIAL			REQUIRED			
		PULSATION DAMPER					REQUIRED	
IES		MATERIAL			REQUIRED			
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION	NOT REC		NOT REG	N IIDED
ES		SIPHON TUBE	FROCESS CONN	ECTION	NOTINE		REQUIRED	KOIKED
ACC		MATERIAL			NOT REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION				N IIDED
		OVERPRESSURE PROTECTOR	I NOCESS CONN	2011014	NOT REQUIRED NOT REQUIRED NOT REQUIRED			OINED
		MATERIAL			NOT REQUIRED			
		CONNECTION INSTRUMENT	PROCESS CONNE	ECTION				UIIRED
	46	TAGGING	1 100200 001111	2011014	NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2)			KOIKED
	40					123 (022 0)	(1,0 1 2)	
		FLUID	PHYSICAL STATU	IS.	CLEAN	J AIR	AIF	?
SI			NORMAL	MAXIMUM	_	T .	-	°C
l N		MINIMUM PRESSURE	NORMAL	MAXIMUM	_	_	-	bar-g
LIQN		DESIGN PRESSURE	DESIGN TEMPER			-		°C
8		VISCOSITY @ OPERATING CON			- cP			
.ING		DENSITY @ OPERATING CONDI					kg/m³	
RAT		SUSPENDED SOLIDS (%)			- kg/iii:			
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE		<u> </u>			
		M.M. / Z / Cp/Cv			//			
		MANUFACTURER					WIKA	
		MODEL			VVIICA			
\blacksquare	JU INIODEL				ı			









TITLE

50 de 55

2

REV.:

PRESSURE GAUGE SANITARY

							2		
	1	INSTRUMENT TAG NUMBER				PI-7000041			
	2	SERVICE			GAS SUPPLY CLEAN COMPRESSED AIR				
	3	P&ID			7B-Z-0-2-07				
∀	4	PIPE LINE	EQUIPMENT NUM	MBER	1/2"-CAP-700037-SS10-NI -				
ER.	5	EQUIPMENT MATERIAL / PIPE			ASTM	A270 Gr. TP316L			
GENERAL	6	AREA CLASSIFICATION			NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529				
		CERTIFICATES			` ′	ENERAL NOTES 6)			
	9				(SEE SEINEIVAE NOTES 0)				
	_	TYPE OF MEASUREMENT				DIRECT			
	11	MOUNTING				LOCAL			
	12	DIAL DIAMETER				114 mm			
		SCALE COLOR	BACKGROUND C	OLOR	BLACK	WHITE			
		PRECISION				I FINAL VALUE "RANGE"			
		MATERIAL CASE				SS POLISHED			
Ä		RANGE	RESOLUTION		0 @ 6.0 bar-g	0,1			
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET	304SS			
STR		CONEX. PROCES. / ACESS.	CONNECTION PO	OSITION	1/2" NPT (M)	BOTTON	1		
ΙΞ̈́		SENSOR TYPE	MATERIAL SENS		BOURDON	316SS	''		
	_	MATERIAL SOQUETE	MECHANISM MA		316SS	316SS			
		BALANCED POINTER	INICO IANIONI WA	ILINAL	YES				
		MICROMETRIC ADJUSTMENT O	IF 7FR∩		YES				
		RONT TYPE WINDOWS			SOLID	GLASS SEG. TRANS	D MIN 75%		
					YES GLYCERI				
\vdash		SEAL DIAPHRAGM	FLUID						
		CONNECTION INSTRUMENT	DBOCESS CONN	ECTION	BY MANUFACTURER	ISI 316L (SEE GENERAL NOTES 4) RER 11/2"-TRI-CLAMP-ASME BPE			
	_								
		SEAL FILLING FLUID				NERAL OIL (FDA-APPRO)	/ED)		
		WET PART MATERIAL			316LSS (SEE GENERAL NOTES 4) NOT REQUIRED				
		CAPILLARY LENGTH							
		CAPILLARY MATERIAL			NOT REQUIRED NOT REQUIRED				
ES		PULSATION DAMPER							
ORI		MATERIAL	1			T REQUIRED			
ACCESSORIES		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED				
CC		SIPHON TUBE				T REQUIRED			
`		MATERIAL	T		NOT REQUIRED				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED		RED		
		OVERPRESSURE PROTECTOR			NOT REQUIRED				
		MATERIAL	l		NOT REQUIRED				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED		RED		
	46	TAGGING			YES (SEE	GENERAL NOTES 2)			
	40	ELLID.	DUVOIONI OTAT	10	OLEAN ALD	1			
(n		FLUID	PHYSICAL STATI		CLEAN AIR	AIR	•		
NO NO		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		- -	°C		
TIQ		MINIMUM PRESSURE	NORMAL	MAXIMUM	- -	- C	bar-g		
8		DESIGN PRESSURE	DESIGN TEMPER	MIURE	-				
90		VISCOSITY @ OPERATING COND				- CP			
ATI		DENSITY @ OPERATING COND	IIIUN		- kg/m³				
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)	ATUDE			-			
Ō		SOLIDIFIES AT ROOM TEMPERA	HIUKE			-			
\vdash		M.M. / Z / Cp/Cv			11				
		MANUFACTURER				WIKA			
	50	MODEL							









TITLE

51 de 55

2

REV.:

PRESSURE GAUGE SANITARY

							2		
	1	INSTRUMENT TAG NUMBER			F	I-750001			
	2	SERVICE			BIOWASTE COLLECTION HEADERS				
	3	P&ID			7B-Z-0-2-73				
GENERAL	4	PIPE LINE	EQUIPMENT NUM	/BER	3/4"-SFI-750007-SS5-PP -				
	5	EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L				
		AREA CLASSIFICATION			NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION				ONF. NBR IEC 60529			
	8	CERTIFICATES			` '				
	9	OLIVIII IOATEO			(SEE GENERAL NOTES 6)				
	_	TYPE OF MEASUREMENT				DIRECT			
		MOUNTING				LOCAL			
		DIAL DIAMETER	In akanana in a	101 OB		114 mm			
		SCALE COLOR	BACKGROUND C	OLOR	BLACK	WHITE			
		PRECISION				NAL VALUE "RANGE"			
F		MATERIAL CASE	I			S POLISHED			
NSTRUMENT		RANGE	RESOLUTION		0 @ 3 bar-g	0,1			
IRU		RING TYPE	RING MATERIAL		BAYONET	304SS			
LSNI	18	CONEX. PROCES. / ACESS.	CONNECTION PO	DSITION	1/2" NPT (M)	BOTTOM	1		
	19	SENSOR TYPE	MATERIAL SENS	OR	BOURDON	316SS			
	20	MATERIAL SOQUETE	MECHANISM MA	TERIAL	316SS 316SS				
	21	BALANCED POINTER			YES				
	22	MICROMETRIC ADJUSTMENT O	F ZERO		YES				
	23	FRONT TYPE	WINDOWS		SOLID	GLASS SEG. TRANS	P. MIN. 75%		
	24	FILLING	FLUID		YES GLYCERIN				
	25	SEAL DIAPHRAGM			YES IN AISI 316L (SEE GENERAL NOTES 4)				
	26	CONNECTION INSTRUMENT PROCESS CONNECTION			BY MANUFACTURER	11/2"-TRI-CLAMP-/	ASME BPE		
	27	SEAL FILLING FLUID			MEDICAL WHITE MIN	ERAL OIL (FDA-APPRO)	/ED)		
	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			
sso	33	CONNECTION INSTRUMENT PROCESS CONNECTION			NOT REQUIRED	NOT REQUI	RED		
CE	34	SIPHON TUBE			NOT REQUIRED				
A	35	MATERIAL			NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUI	RED		
		OVERPRESSURE PROTECTOR			NOT REQUIRED				
	38	MATERIAL			NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED	NOT REQUIRED			
	46	TAGGING	1		YES (SEE GENERAL NOTES 2)				
	40								
	36	FLUID	PHYSICAL STATI	JS	CLEAN STEAM	STEAM			
SZ	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C		
TIO		MINIMUM PRESSURE	NORMAL	MAXIMUM		-	bar-g		
<u>I</u>		DESIGN PRESSURE	DESIGN TEMPER		-	°C			
8		VISCOSITY @ OPERATING CON				· cP			
ING		DENSITY @ OPERATING CONDITION			- cr - kg/m³				
RAT		SUSPENDED SOLIDS (%)			- kymi				
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE		<u> </u>				
		M.M. / Z / Cp/Cv	<u> </u>		11				
	-	MANUFACTURER			-	/ / WIKA			
		MODEL							
	டு	MODEL			1				









TITLE

52 de 55

2

REV.:

PRESSURE GAUGE SANITARY

							2		
	1	INSTRUMENT TAG NUMBER			F	rl-900102			
	2	SERVICE			PLANT STEAM (LOW PRESS.)				
	3	P&ID			7B-Z-0-2-54				
GENERAL	4	PIPE LINE	EQUIPMENT NUM	MBER	1"-IS4B-900101-CS1-HC -				
	5	EQUIPMENT MATERIAL / PIPE			ASTM A	270 Gr. TP316L			
GEN	6	AREA CLASSIFICATION			NOT	CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) C	ONF. NBR IEC 60529			
	8	CERTIFICATES			(SEE GEI	NERAL NOTES 6)			
	9				(=========,				
	10	TYPE OF MEASUREMENT				DIRECT			
	11	MOUNTING				LOCAL			
	12	DIAL DIAMETER				114 mm			
		SCALE COLOR	BACKGROUND C	COLOR	BLACK	WHITE			
		PRECISION				I NAL VALUE "RANGE"			
		MATERIAL CASE				S POLISHED			
IN IN		RANGE	RESOLUTION		0 @ 10 bar-g	0,1			
NSTRUMENT		RING TYPE	RING MATERIAL		BAYONET	304SS			
TRI		CONEX. PROCES. / ACESS.	CONNECTION PO	NOITION	1/2" NPT (M)	вотто			
S		SENSOR TYPE	MATERIAL SENS		BOURDON	31688			
	_	MATERIAL SOQUETE							
		BALANCED POINTER	MECHANISM MA	IERIAL	316SS 316SS YES				
			E 7EBO		YES				
		2 MICROMETRIC ADJUSTMENT OF ZERO		COLID					
		FRONT TYPE WINDOWS			GLASS SEG. TRANSP. M				
_		FILLING	FLUID		YES	GLYCER			
		SEAL DIAPHRAGM	IDDOOESS SONN	IFOTION	YES IN AISI 316L (SEE GENERAL NOTES 4) BY MANUFACTURER 11/2"-TRI-CLAMP-ASME BI				
	_	CONNECTION INSTRUMENT PROCESS CONNECTION			BY MANUFACTURER	<u> </u>			
						IERAL OIL (FDA-APPRO	VED)		
		WET PART MATERIAL			,	GENERAL NOTES 4)			
		CAPILLARY LENGTH				REQUIRED			
		CAPILLARY MATERIAL			NOT REQUIRED				
ES		PULSATION DAMPER				REQUIRED			
ORI		MATERIAL	T		NOT REQUIRED				
ESS		CONNECTION INSTRUMENT PROCESS CONNECTION		NOT REQUIRED NOT REQUIRED					
ACCESSORIES		SIPHON TUBE			NOT REQUIRED				
^		MATERIAL			NOT REQUIRED				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED		IRED		
		OVERPRESSURE PROTECTOR			NOT REQUIRED				
		MATERIAL	1		NOT REQUIRED				
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED		NOT REQUIRED		
	46	TAGGING			YES (SEE G	ENERAL NOTES 2)			
	40	ELLIE .	In more and	10	01547:055				
 		FLUID	PHYSICAL STATI		CLEAN STEAM	STEAM			
ONS		MINIMUM TEMPERATURE	NORMAL	MAXIMUM		-	°C		
DITI		MINIMUM PRESSURE	NORMAL	MAXIMUM	- -	-	bar-g		
NOS		DESIGN PRESSURE	DESIGN TEMPER	KATUKE	- °C				
76.0		VISCOSITY @ OPERATING CON				- cP			
ATI		DENSITY @ OPERATING COND	IIION			- kg/m³			
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)	A-T-1-D-F			-			
ō		SOLIDIFIES AT ROOM TEMPERA	ATURE		-				
\vdash		M.M. / Z / Cp/Cv			1				
		MANUFACTURER				WIKA			
	50	MODEL							









NUMBER: CLIENT NR: PRD-AIC-DSH-046 569-DB7B-AIC-712-004

TITLE

53 de 55 REV.:

PRESSURE GAUGE SANITARY

2

								2	
	1	INSTRUMENT TAG NUMBER		PI	-900104				
	2	SERVICE			CHILLED WATER SUPPLY				
	3	P&ID			7B-Z-0-2-54				
₹	4	PIPE LINE EQUIPMENT NUMBER			1 1/2"-CW1S-070020-CS1-CC -				
GENERAL	5	EQUIPMENT MATERIAL / PIPE		ASTM A2	270 Gr. TP316L				
GE	6	AREA CLASSIFICATION			NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION	1	IP 65 (MÍN.) C	ONF. NBR IEC 60529				
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
	9				(022 021421421101200)				
	10	TYPE OF MEASUREMENT					DIRECT		
	11	MOUNTING				l	LOCAL		
	12	DIAL DIAMETER				1	14 mm		
		SCALE COLOR	BACKGROUND C	OLOR	BLAC		l white	E	
	-	PRECISION					I NAL VALUE "RANGE"		
		MATERIAL CASE					POLISHED		
NSTRUMENT		RANGE	RESOLUTION		0@6b		0,1		
JME		RING TYPE	RING MATERIAL		BAYON	-	304SS	3	
TRI		CONEX. PROCES. / ACESS.	CONNECTION PO	NOITION	1/2" NP		вотто		
Ĭ≌		SENSOR TYPE	MATERIAL SENS		BOURE		31688		
		MATERIAL SOQUETE	MECHANISM MA						
	-		316SS 316SS YES			,			
		BALANCED POINTER MICROMETRIC ADJUSTMENT OF ZERO			YES				
					8011			ICD MINI 750/	
				SOLID GLASS SEG. TRANS YES GLYCERI					
		FILLING							
	-	SEAL DIAPHRAGM			SEE GENERAL NOTES				
	-	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	BY MANUFA		11/2"-TRI-CLAMP		
		SEAL FILLING FLUID	MEDICA		ERAL OIL (FDA-APPRO	OVED)			
		WET PART MATERIAL				316LSS (SEE GENERAL NOTES 4)			
	-	CAPILLARY LENGTH				NOT REQUIRED			
		CAPILLARY MATERIAL		NOT	REQUIRED				
S		PULSATION DAMPER		NOT	REQUIRED				
N N		MATERIAL		NOT	REQUIRED				
SSE		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQ	UIRED	NOT REQU	JIRED	
ACCESSORIES		SIPHON TUBE				NOT	REQUIRED		
٩	35	MATERIAL			NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIR		JIRED		
		OVERPRESSURE PROTECTOR			NOT REQUIRED				
	38	MATERIAL			NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED		JIRED		
	46	TAGGING				YES (SEE GI	ENERAL NOTES 2)		
Ш	40								
	36	FLUID	PHYSICAL STATI	JS	CHILLED \	WATER	LIQUII	כ	
SNC	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C	
TIC	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g	
OPERATING CONDITIONS	39	DESIGN PRESSURE DESIGN TEMPERATURE		- °C			}		
ပိ	40	VISCOSITY @ OPERATING CON	DITION			- cP			
Ž	41	DENSITY @ OPERATING CONDI	- kg/m³						
ERA	42	SUSPENDED SOLIDS (%)			-				
OP	43	SOLIDIFIES AT ROOM TEMPERA	ATURE		-				
	44	M.M. / Z / Cp/Cv			11				
	49	MANUFACTURER				WIKA			
	50	MODEL							
-	_								









TITLE

54 de 55

PRESSURE GAUGE SANITARY

REV.: **2**

								2		
	1	INSTRUMENT TAG NUMBER			PI-900106					
	2	SERVICE				CHILLED V	VATER RETURN			
	3	P&ID			7B-Z-0-2-54					
ᅱ	4	PIPE LINE EQUIPMENT NUMBER			1 1/2"-CW1R-07	1 1/2"-CW1R-070021-CS1-CC -				
GENERAL	5	EQUIPMENT MATERIAL / PIPE		ASTM A2	270 Gr. TP316L					
GEN	6	AREA CLASSIFICATION		NOT CLASSIFIED						
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) C	ONF. NBR IEC 60529					
	8	CERTIFICATES			ERAL NOTES 6)					
	9					(
	<u> </u>	TYPE OF MEASUREMENT				Г	DIRECT			
		MOUNTING				LOCAL				
		DIAL DIAMETER					14 mm			
		SCALE COLOR	BACKGROUND	COLOR	BLAC		WHIT			
		PRECISION	BACKGROUND	COLOR			 NAL VALUE "RANGE"			
Ļ		MATERIAL CASE	I====:		1		POLISHED			
ME		RANGE	RESOLUTION		0 @ 10		0,1	_		
IRU		RING TYPE	RING MATERIA		BAYON		304S			
INSTRUMENT	18	CONEX. PROCES. / ACESS.	CONNECTION		1/2" NP	Г (М)	ВОТТО			
	19	SENSOR TYPE	ISOR	BOURI	OON	316S	S			
	20	MATERIAL SOQUETE	MECHANISM M	ATERIAL	3168	316SS 316SS				
	21	BALANCED POINTER			YES					
	22	MICROMETRIC ADJUSTMENT (YES							
	23	3 FRONT TYPE WINDOWS		SOLID		GLASS SEG. TRANSP. MIN. 75%				
	24	FILLING FLUID			YES	YES GLYCERIN		RIN		
	25	SEAL DIAPHRAGM			YES	IN AISI 316L (SEE GENERAL NOTE	S 4)		
	26	CONNECTION INSTRUMENT PROCESS CONNECTION 7 SEAL FILLING FLUID			BY MANUFA	CTURER	11/2"-TRI-CLAMI	P-ASME BPE		
	27				MEDICA	AL WHITE MINI	ERAL OIL (FDA-APPR	OVED)		
	28	WET PART MATERIAL				316LSS (SEE	GENERAL NOTES 4)			
	29	CAPILLARY LENGTH				NOT	REQUIRED			
	30	CAPILLARY MATERIAL				NOT REQUIRED				
'n	31	PULSATION DAMPER				NOT	REQUIRED			
ACCESSORIES	32	MATERIAL				NOT	REQUIRED			
SSO	33	CONNECTION INSTRUMENT	PROCESS CON	INECTION	NOT REQ	UIRED	NOT REQ	UIRED		
CES	34	SIPHON TUBE			NOT REQUIRED					
AC	35	MATERIAL			NOT REQUIRED					
		CONNECTION INSTRUMENT	PROCESS CON	INFCTION	NOT REQUIRED NOT REQUIRED		UIRFD			
		OVERPRESSURE PROTECTOR			NOT REQUIRED					
		MATERIAL	•		NOT REQUIRED					
		CONNECTION INSTRUMENT	PROCESS CON	INFCTION			LIIRED			
		TAGGING	1.1100200 001		HOTTLES	NOT REQUIRED YES (SEE GENER		011125		
	40	THOUSENS .				120 (022 0				
	_	FLUID	PHYSICAL STA	TUS	CHILLED \	WATER	LIQU	ID		
ွ		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	- CHILLED		- Liqui	°C		
OPERATING CONDITIONS		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	<u> </u>	-	bar-g		
		DESIGN PRESSURE	DESIGN TEMPE		-		-			
ģ				LIVATURE		- C				
و		VISCOSITY @ OPERATING CONF				- cP				
AT		DENSITY @ OPERATING COND	II IUN			-	kg/m³			
띪	_	SUSPENDED SOLIDS (%)				-				
ō		SOLIDIFIES AT ROOM TEMPER	A FURE				-			
	_	M.M. / Z / Cp/Cv					<u>' /</u>			
		MANUFACTURER				WIKA				
	50	MODEL								









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REV.:

PRESSURE GAUGE SANITARY

							2			
	1	INSTRUMENT TAG NUMBER				PI-900109				
	2	SERVICE			SUPPLY CLEAN STEAM					
	3	P&ID			7B-Z-0-2-54					
	4	PIPE LINE	EQUIPMENT NUM	/BER	2"-SFI-650127-SS10-HC -					
ER/		EQUIPMENT MATERIAL / PIPE	l		ASTM	I A270 Gr. TP316L				
GENERAL		AREA CLASSIFICATION				NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
	· ·	CERTIFICATES			` ,					
	9	OLIVIII IOATEO			(SEE GENERAL NOTES 6)					
-	_	TYPE OF MEASUREMENT				DIRECT				
	_	MOUNTING				LOCAL				
		DIAL DIAMETER				114 mm				
		SCALE COLOR	BACKCBOTIND C	OLOB	BLACK	WHITE				
		PRECISION	BACKGROUND C	OLOR		INAL VALUE "RANGE"	•			
Ρ		MATERIAL CASE RANGE	DECOLUTION			SS POLISHED				
NSTRUMENT			RESOLUTION		0 @ 10 bar-g	0,1				
TRL		RING TYPE	RING MATERIAL		BAYONET	304SS				
INS	_	CONEX. PROCES. / ACESS.	CONNECTION PO		1/2" NPT (M)	BOTTO				
	-	SENSOR TYPE	MATERIAL SENS		BOURDON	316SS				
		MATERIAL SOQUETE	MECHANISM MA	IERIAL	316SS 316SS					
		BALANCED POINTER			YES					
		2 MICROMETRIC ADJUSTMENT OF ZERO			00115	YES				
		3 FRONT TYPE WINDOWS				SOLID GLASS SEG. TRANSP				
	_	FILLING	FLUID		YES	GLYCER				
	_	SEAL DIAPHRAGM	Inno 0500 00111	FOTION		YES IN AISI 316L (SEE GENERAL NOTES 4) BY MANUFACTURER 11/2"-TRI-CLAMP-ASME BI				
	26 CONNECTION INSTRUMENT		PROCESS CONN	ECTION	BY MANUFACTURER					
		SEAL FILLING FLUID				NERAL OIL (FDA-APPRO	VED)			
		WET PART MATERIAL			,	GENERAL NOTES 4)				
	_	CAPILLARY LENGTH				T REQUIRED				
		CAPILLARY MATERIAL				T REQUIRED				
ES		PULSATION DAMPER				T REQUIRED				
SOR		MATERIAL		FOTION		T REQUIRED	IDED			
ESS		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED					
ACCESSORIES		SIPHON TUBE			NOT REQUIRED					
`		MATERIAL	Inno 0500 00111	FOTION	NOT REQUIRED NOT REQUIRED					
		CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED NOT REQUIRED					
		OVERPRESSURE PROTECTOR			NOT REQUIRED					
		MATERIAL CONNECTION INSTRUMENT	PROCESS CONN	ECTION	NOT REQUIRED		IDED			
	46	TAGGING	I. NOCESS COM	LOTION	NOT REQUIRED NOT REQUIRED YES (SEE GENERAL NOTES 2)		LD			
	40	TAGOING			TEG (SEE	SEIVELIVAL INOTES 2)				
		FLUID	PHYSICAL STATI	IS	CLEAN STEAM	VAPOF	,			
S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	CLEAN STEAM	VAPOR	°C			
NO.		MINIMUM PRESSURE	NORMAL	MAXIMUM	<u> </u>	_	bar-g			
 -		DESIGN PRESSURE	DESIGN TEMPER							
S		VISCOSITY @ OPERATING CON		•						
NG		DENSITY @ OPERATING COND			- cP					
ZAT		SUSPENDED SOLIDS (%)			- kg/m³					
OPERATING CONDITIONS		SOLIDIFIES AT ROOM TEMPERA	ATURE							
		M.M. / Z / Cp/Cv			-					
\vdash	-	MANUFACTURER			/ WIKA					
		MODEL								
		NODEL								