	
DOC NUMBER: 569-DB7B-AIC-712-004		CLIENT NUMBER: 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
A	31MAR2021	60% DD ISSUE	JHA	MAF	RSP
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV

NUMBER: 569-DB7B-AIC-712-004

CLIENT NR: PRD-AIC-DSH-046

TITLE

SHEET: 2 de 55

PRESSURE GAUGE SANITARY

REV.: 2

DOCUMENT REVIEW CONTROL

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

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

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

TITLE

SHEET:
3 de 55**PRESSURE GAUGE SANITARY**REV.:
2**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 N°2, 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 (CO ₂ &O ₂) - 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

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 4 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-230001				
	2	SERVICE		BIOREACTOR, BRE-5401 - O2 GAS TO 40L				
	3	P&ID		7B-Z-0-2-70				
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GOP-240001-SS10-NI	-			
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE			
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1			
	17	RING TYPE	RING MATERIAL	BAYONET	304SS			
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM			
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS			
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS			
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%			
24	FILLING	FLUID	YES	GLYCERIN				
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED			
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED			
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED			
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		OXIGEN		GAS	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 5 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-230005			
	2	SERVICE		BIOREACTOR, BRE-5401 - O2 GAS TO 40L			
	3	P&ID		7B-Z-0-2-70			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GOP-240001-SS10-NI	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		OXIGEN		GAS
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 6 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-230006				
	2	SERVICE		BIOREACTOR, BRE-5401 - O2 GAS TO 40L				
	3	P&ID		7B-Z-0-2-70				
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GOP-240001-SS10-NI	-			
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE			
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1			
	17	RING TYPE	RING MATERIAL	BAYONET	304SS			
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM			
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS			
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS			
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%			
24	FILLING	FLUID	YES	GLYCERIN				
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED			
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED			
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED			
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		OXIGEN		GAS	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 7 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-230021				
	2	SERVICE		CARBON DIOXIDE GAS				
	3	P&ID		7B-Z-0-2-07				
	4	PIPE LINE	EQUIPMENT NUMBER	7B-1/2"-GCO2-230009-SS10-NI		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CARBON DIOXIDE		GAS	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 8 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-240001				
	2	SERVICE		OXIGEN GAS AMOUNT FILTRO FGA-2400-2				
	3	P&ID		7B-Z-0-2-70				
	4	PIPE LINE	EQUIPMENT NUMBER	7B-1/2"-GO2-240002-SS10-NI		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		YES IN AISI 316L (SEE GENERAL NOTES 4)				
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	BY MANUFACTURER		1 1/2"-TRI-CLAMP-ASME BPE		
	27	SEAL FILLING FLUID		MEDICAL WHITE MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		YES USE COOLING ELEMENT				
	35	MATERIAL		316L SS				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)		BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)				
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES		1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		OXIGEN GAS		GAS	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 9 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-240005				
	2	SERVICE		OXYGEN GAS DOWNSTREAM FILTRO FGA-2400-1				
	3	P&ID		7B-Z-0-2-70				
	4	PIPE LINE	EQUIPMENT NUMBER	7B-1/2"-GO2-240002-SS10-NI		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		YES IN AISI 316L (SEE GENERAL NOTES 4)				
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	BY MANUFACTURER		1 1/2"-TRI-CLAMP-ASME BPE		
	27	SEAL FILLING FLUID		MEDICAL WHITE MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		YES USE COOLING ELEMENT				
	35	MATERIAL		316L SS				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)		BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES		1/2" NPT (F)		
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		OXYGEN GAS		GAS	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 10 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-240006				
	2	SERVICE		OXIGEN GAS DOWNSTREAM FILTRO FGA-2400-2				
	3	P&ID		7B-Z-0-2-70				
	4	PIPE LINE	EQUIPMENT NUMBER	7B-1/2"-GO2-240008-SS10-NI		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		YES IN AISI 316L (SEE GENERAL NOTES 4)				
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	BY MANUFACTURER		1 1/2"-TRI-CLAMP-ASME BPE		
	27	SEAL FILLING FLUID		MEDICAL WHITE MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		YES USE COOLING ELEMENT				
	35	MATERIAL		316L SS				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)		BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES		1/2" NPT (F)		
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		OXIGEN GAS		GAS	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	3	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 11 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-341101			
	2	SERVICE		TQ-3411 - SLURRY TANK			
	3	P&ID		7B-Z-0-2-32			
	4	PIPE LINE	EQUIPMENT NUMBER	-	TQ-3411		
	5	EQUIPMENT MATERIAL / PIPE		316L SS			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		SLURRY		LIQUID
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 12 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-370205			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY FRON TQ-3702			
	3	P&ID		7B-Z-0-2-34			
	4	PIPE LINE	EQUIPMENT NUMBER	7B-1/2"-CAP-370208-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDE SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 13 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-370305			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY FRON TQ-3703			
	3	P&ID		7B-Z-0-2-35			
	4	PIPE LINE	EQUIPMENT NUMBER	7B-1/2"-CAP-370308-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDE SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 14 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-430002			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY FROM TQ-3703			
	3	P&ID		7B-Z-0-2-52			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-CHE-430005-SS5-NI	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		YES IN AISI 316L (SEE GENERAL NOTES 4)			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	BY MANUFACTURER	3/4"		
	27	SEAL FILLING FLUID		MEDICAL WHITE MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
	OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR	
37		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
38		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
39		DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
40		VISCOSITY @ OPERATING CONDITION		- cP			
41		DENSITY @ OPERATING CONDITION		- kg/m³			
42		SUSPENDED SOLIDS (%)		-			
43		SOLIDIFIES AT ROOM TEMPERATURE		-			
44		M.M. / Z / Cp/Cv	 / /			
49		MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 15 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-430001			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY			
	3	P&ID		7B-Z-0-2-52			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-CA-710011-SS5-NI	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		YES IN AISI 316L (SEE GENERAL NOTES 4)			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	BY MANUFACTURER	3/4"		
	27	SEAL FILLING FLUID		MEDICAL WHITE MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 16 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-510103			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY			
	3	P&ID		7B-Z-0-2-01			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0R-510109-SS5-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 17 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-510202			
	2	SERVICE		PROPYLENE GLYCOL RET			
	3	P&ID		7B-Z-0-2-02			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CAP-510228-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 3 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
	24	FILLING	FLUID	YES		GLYCERIN	
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
	OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR	
37		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
38		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
39		DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
40		VISCOSITY @ OPERATING CONDITION		- cP			
41		DENSITY @ OPERATING CONDITION		- kg/m³			
42		SUSPENDED SOLIDS (%)		-			
43		SOLIDIFIES AT ROOM TEMPERATURE		-			
44		M.M. / Z / Cp/Cv	 / /			
49		MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 18 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-510203			
	2	SERVICE		PROPYLENE GLYCOL RET			
	3	P&ID		7B-Z-0-2-02			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0R-510109-SS5-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 19 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-520103			
	2	SERVICE		PROPYLENE GLYCOL RET			
	3	P&ID		7B-Z-0-2-03			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0R-520111-SS5-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		PROPYLENE GLYCOL		LIQUID
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 20 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-520203			
	2	SERVICE		PROPYLENE GLYCOL RET			
	3	P&ID		7B-Z-0-2-04			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0R-520111-SS5-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS	PROPYLENE GLYCOL		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 21 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-520225			
	2	SERVICE		PROPYLENE GLYCOL RET			
	3	P&ID		7B-Z-0-2-04			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-GW0S-520221-CS1-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		PROPYLENE GLYCOL		LIQUID
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 22 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-570102			
	2	SERVICE		CLEAN COMP. AIR SUPPLY			
	3	P&ID		7B-Z-0-2-21			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CAP-570128-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)		BY MANUFACTURER	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES		1/2" NPT (F)		
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		AIR		GAS
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 23 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-570103			
	2	SERVICE		CHILLED WATER LOOP 1, RETURN			
	3	P&ID		7B-Z-0-2-21			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0R-570111-SS5-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		WATER		LIQUID
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 24 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-570202			
	2	SERVICE		CHILLED WATER LOOP 1, SUPPLY			
	3	P&ID		7B-Z-0-2-22			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CAP-570228-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)		BY MANUFACTURER	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES		1/2" NPT (F)		
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		AIR		GAS
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 25 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-570203			
	2	SERVICE		CHILLED WATER LOOP 1, RETURN			
	3	P&ID		7B-Z-0-2-22			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CAP-570228-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)		BY MANUFACTURER	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES		1/2" NPT (F)		
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		AIR		GAS
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 26 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-590102			
	2	SERVICE		CHILLED WATER LOOP 1, SUPPLY			
	3	P&ID		7B-Z-0-2-24			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CAP-590128-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)		BY MANUFACTURER	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES		1/2" NPT (F)		
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		AIR		GAS
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 27 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	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 NUMBER	1/2"-GW0R-590111-SS5-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS	AIR		GAS	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 28 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-590202			
	2	SERVICE		CLEAN COMP. AIR			
	3	P&ID		7B-Z-0-2-25			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CAP-590228-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)		BY MANUFACTURER	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES		1/2" NPT (F)		
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		AIR		GAS
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 29 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-590203			
	2	SERVICE		WATER LOOP 1, RETURN CHILLED			
	3	P&ID		7B-Z-0-2-25			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0R-590211-SS5-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		WATER		LIQUID
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 30 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-640106			
	2	SERVICE		AIR SUPPLY INSTRUMENT			
	3	P&ID		7B-Z-0-2-59			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-CA-710014-SS5-NI	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		AIR SUPPLY INSTRUMENT		GAS
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 31 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-640107			
	2	SERVICE		WATER LOOP 2, RETURN CHILLED			
	3	P&ID		7B-Z-0-2-59			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CW1R-640128-CS1-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		WATER		LIQUID
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 32 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-640108			
	2	SERVICE		WATER LOOP 2, RETURN CHILLED			
	3	P&ID		7B-Z-0-2-59			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CW1R-640127-CS1-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		YES USE COOLING ELEMENT			
	35	MATERIAL		316L SS			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		WATER		LIQUID
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 33 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-640109			
	2	SERVICE		HIGH PRESSURE STEAM			
	3	P&ID		7B-Z-0-2-59			
	4	PIPE LINE	EQUIPMENT NUMBER	1 1/2"-IS8B-640130-CS2-HC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		YES USE COOLING ELEMENT			
	35	MATERIAL		316L SS			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS	HIGH PRESSURE STEAM		STEAM	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 34 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650101			
	2	SERVICE		CLEAN STEAM			
	3	P&ID		7B-Z-0-2-63			
	4	PIPE LINE	EQUIPMENT NUMBER	3"-IS8B-650137-CS2-HC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		YES USE COOLING ELEMENT			
	35	MATERIAL		316L SS			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS	STEAM		STEAM	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 35 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650111			
	2	SERVICE		CHILLED WATER			
	3	P&ID		7B-Z-0-2-64			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-SFI-650129-SS10-HC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT	HIGIENIC SEAL TRI CLAMP		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	HIGIENIC SEAL TRI CLAMP		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 36 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650112			
	2	SERVICE		CLEAN STEAM			
	3	P&ID		7B-Z-0-2-64			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-SFI-650148-SS10-HC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT	HIGIENIC SEAL TRI CLAMP		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	HIGIENIC SEAL TRI CLAMP		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		WATER		LIQUID
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 37 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650113			
	2	SERVICE		CLEAN STEAM SUPPLY			
	3	P&ID		7B-Z-0-2-64			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-SFI-650106-SS10-HC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 10 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT	HIGIENIC SEAL TRI CLAMP		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	HIGIENIC SEAL TRI CLAMP		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		STEAM		STEAM
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
49	MANUFACTURER		WIKA				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 38 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650114			
	2	SERVICE		CLEAN STEAM CONDENSATE			
	3	P&ID		7B-Z-0-2-64			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-SFI-650120-SS10-HC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT	HIGIENIC SEAL TRI CLAMP		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	HIGIENIC SEAL TRI CLAMP		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		STEAM		STEAM
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 39 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650102			
	2	SERVICE		CHILLED WATER			
	3	P&ID		7B-Z-0-2-63			
	4	PIPE LINE	EQUIPMENT NUMBER	1 1/2"-CW1S-650157-CS1-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 40 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650103			
	2	SERVICE		CHILLED WATER			
	3	P&ID		7B-Z-0-2-63			
	4	PIPE LINE	EQUIPMENT NUMBER	1 1/2"-CW1R-650158-CS1-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		WATER		LIQUID
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 41 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650104			
	2	SERVICE		INSTR. AIR			
	3	P&ID		7B-Z-0-2-63			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-CA-650159-SS5-NI	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M) / COOLING ELEMENT	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	25	SEAL DIAPHRAGM		NOT REQUIRED			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	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			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	BY MANUFACTURER		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	46	TAGGING		YES (SEE GENERAL NOTES 2)			
40	ELECTRIC CONTACT ADJUSTABLE	ELECTRICAL CONNECTION	YES	1/2" NPT (F)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		AIR		GAS
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 42 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-700006				
	2	SERVICE		CLEAN COMPRESSED AIR				
	3	P&ID		7B-Z-0-2-71				
	4	PIPE LINE	EQUIPMENT NUMBER	2"-CA-8400115-SS5-NI		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	30	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	6	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		30 °C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 43 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-700007				
	2	SERVICE		CLEAN COMPRESSED AIR				
	3	P&ID		7B-Z-0-2-71				
	4	PIPE LINE	EQUIPMENT NUMBER	2"-CA-8400115-SS5-NI		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	30	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	6	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		30 °C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 44 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-700008			
	2	SERVICE		CLEAN COMPRESSED AIR			
	3	P&ID		7B-Z-0-2-71			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-CA-8400115-SS5-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	30 °C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	6 bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		30 °C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 45 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-700031			
	2	SERVICE		CLEAN COMPRESSED AIR TO MAB LOAD FILT. SKID CFIL-3300			
	3	P&ID		7B-Z-0-2-71			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-CAP-700014-SS10-NI	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 46 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-700033				
	2	SERVICE		FOR COLUMN PACKING CLEAN COMPRESSED AIR				
	3	P&ID		7B-Z-0-2-81				
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-CAP-700006-SS10-NI		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	30	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	6	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 47 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-700034			
	2	SERVICE		CLEAN COMPRESSED AIR TO HEADER			
	3	P&ID		7B-Z-0-2-71			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-CAP-700019-SS10-NI	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 48 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-700035			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY FROM HEADER			
	3	P&ID		7B-Z-0-2-71			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-CAP-700015-SS10-NI	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 49 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-700036			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY FROM HEADER			
	3	P&ID		7B-Z-0-2-71			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CAP-700005-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 50 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	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 NUMBER	1/2"-CAP-700037-SS10-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE	
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 6.0 bar-g		0,1	
	17	RING TYPE	RING MATERIAL	BAYONET		304SS	
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM	
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS	
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS	
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%	
24	FILLING	FLUID	YES		GLYCERIN		
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED	
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN AIR		AIR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046			
TITLE						SHEET: 51 de 55	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-750001			
	2	SERVICE		BIOWASTE COLLECTION HEADERS			
	3	P&ID		7B-Z-0-2-73			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-SFI-750007-SS5-PP	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 6)			
	9						
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT			
	11	MOUNTING		LOCAL			
	12	DIAL DIAMETER		114 mm			
	13	SCALE COLOR	BACKGROUND COLOR	BLACK	WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"			
	15	MATERIAL CASE		304SS POLISHED			
	16	RANGE	RESOLUTION	0 @ 3 bar-g	0,1		
	17	RING TYPE	RING MATERIAL	BAYONET	304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)	BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON	316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS	316SS		
	21	BALANCED POINTER		YES			
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES			
	23	FRONT TYPE	WINDOWS	SOLID	GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES	GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN STEAM		STEAM
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-	°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP			
	41	DENSITY @ OPERATING CONDITION		- kg/m³			
	42	SUSPENDED SOLIDS (%)		-			
	43	SOLIDIFIES AT ROOM TEMPERATURE		-			
	44	M.M. / Z / Cp/Cv	 / /			
	49	MANUFACTURER		WIKA			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 52 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-900102				
	2	SERVICE		PLANT STEAM (LOW PRESS.)				
	3	P&ID		7B-Z-0-2-54				
	4	PIPE LINE	EQUIPMENT NUMBER	1"-IS4B-900101-CS1-HC		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 10 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN STEAM		STEAM	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 53 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	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		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 6 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CHILLED WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 54 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-900106				
	2	SERVICE		CHILLED WATER RETURN				
	3	P&ID		7B-Z-0-2-54				
	4	PIPE LINE	EQUIPMENT NUMBER	1 1/2"-CW1R-070021-CS1-CC		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 10 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CHILLED WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							

NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7B-AIC-712-004				CLIENT NR: PRD-AIC-DSH-046				
TITLE						SHEET: 55 de 55		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-900109				
	2	SERVICE		SUPPLY CLEAN STEAM				
	3	P&ID		7B-Z-0-2-54				
	4	PIPE LINE	EQUIPMENT NUMBER	2"-SFI-650127-SS10-HC		-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L				
	6	AREA CLASSIFICATION		NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529				
	8	CERTIFICATES		(SEE GENERAL NOTES 6)				
	9							
INSTRUMENT	10	TYPE OF MEASUREMENT		DIRECT				
	11	MOUNTING		LOCAL				
	12	DIAL DIAMETER		114 mm				
	13	SCALE COLOR	BACKGROUND COLOR	BLACK		WHITE		
	14	PRECISION		1% OF THE FINAL VALUE "RANGE"				
	15	MATERIAL CASE		304SS POLISHED				
	16	RANGE	RESOLUTION	0 @ 10 bar-g		0,1		
	17	RING TYPE	RING MATERIAL	BAYONET		304SS		
	18	CONEX. PROCES. / ACESS.	CONNECTION POSITION	1/2" NPT (M)		BOTTOM		
	19	SENSOR TYPE	MATERIAL SENSOR	BOURDON		316SS		
	20	MATERIAL SOQUETE	MECHANISM MATERIAL	316SS		316SS		
	21	BALANCED POINTER		YES				
	22	MICROMETRIC ADJUSTMENT OF ZERO		YES				
	23	FRONT TYPE	WINDOWS	SOLID		GLASS SEG. TRANSP. MIN. 75%		
24	FILLING	FLUID	YES		GLYCERIN			
ACCESSORIES	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 MINERAL OIL (FDA-APPROVED)				
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)				
	29	CAPILLARY LENGTH		NOT REQUIRED				
	30	CAPILLARY MATERIAL		NOT REQUIRED				
	31	PULSATION DAMPER		NOT REQUIRED				
	32	MATERIAL		NOT REQUIRED				
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	34	SIPHON TUBE		NOT REQUIRED				
	35	MATERIAL		NOT REQUIRED				
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED				
	38	MATERIAL		NOT REQUIRED				
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)				
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATUS		CLEAN STEAM		VAPOR	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	bar-g
	39	DESIGN PRESSURE	DESIGN TEMPERATURE		-		°C	
	40	VISCOSITY @ OPERATING CONDITION		- cP				
	41	DENSITY @ OPERATING CONDITION		- kg/m³				
	42	SUSPENDED SOLIDS (%)		-				
	43	SOLIDIFIES AT ROOM TEMPERATURE		-				
	44	M.M. / Z / Cp/Cv	 / /				
	49	MANUFACTURER		WIKA				
50	MODEL							

NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.